



EDITORIAL

SELL IT LIKE JEWELLERY

by Prof. Doc. Bodo W. Lambertz

How often have you read a phrase starting with “We are on the verge of a major turnaround”? Well, the sports industry is going through this currently, a turnaround. The sports industry is undergoing a fundamental change that is leaving deep scars behind. For example, Intersport subsidiary Vosswinkel recently filed for bankruptcy. This is a company with 74 branches, employing around 1200 employees and they are about to close their doors. Large manufacturers like Nike have to invest BILLIONS to compensate for declining sales. While most brands die in the mid-price segment, growth is seen at the outer end. The outer ends being the tough discount business sector (lower end) and at opposite end of the scale, the realm of luxury supersportswear : X-BIONIC®.

Global sales of luxury goods have grown strongly over the past 20 years - to an estimated volume of around 260 billion euros in 2018.

This trend is growing more and more. This is the opportunity for the retail trade; brands with unique technology and performance strengthen the specialist retailer against cheap goods and the competition in e-commerce. With premium brands such as X-BIONIC®, specialist retailers are demonstrating genuine consulting quality and offering customers a unique branding experiences. The customer becomes an event, the retailer an experience provider. This is the basis for solid margins and sustainable sales growth.

Luxury Supersportswear from X-BIONIC®, X-SOCKS® and APANI®, are patented, highly technical and globally unique, with a fascinating heritage and relevant arguments for the customer - this is exactly how retailers can benefit from the market situation.

Use the power of these jewels for your success. We'll show you how. I look forward to an inspiring International Sales Meeting with you.

Your
Prof. Dr. Bodo Lambertz

20 YEARS OF Research & Development

Forging our history, evolving our DNA

A 20 year journey of evolving an industry to what we know today is an unthinkable achievement that most people in history have only dreamt of. Our mentor, our leader, our 'Professor' was awarded the 'Lifetime Achievement Award', an award that only 7 other people in history have received. Our professor has revolutionised our industry through his innovative developments, inspiring thousands of brands worldwide.

TENTACLE® 4.0
+ 100% SWISS ENGINEERED

ENERGIZER® 4.0
+ 100% SWISS ENGINEERED

EFFEKTOR® 4.0
+ 100% SWISS ENGINEERED

TWYCE® 4.0
+ 100% SWISS ENGINEERED

THE TRICK® 4.0
+ 100% SWISS ENGINEERED

RADIATOR 4.0
+ 100% SWISS ENGINEERED

ENERGY ACCUMULATOR® 4.0
+ 100% SWISS ENGINEERED

INVENT® 4.0
+ 100% SWISS ENGINEERED

FENNEC® 4.0
+ 100% SWISS ENGINEERED

1ST YEAR

5 YEARS

10 YEARS

15 YEARS

20 YEARS

4.0



Swiss ski

Tested in the toughest conditions possible.



The evolution of Energy Accumulator through research and development over the last 20 years

20 YEARS OF RESEARCH & DEVELOPMENT
LEADS TO

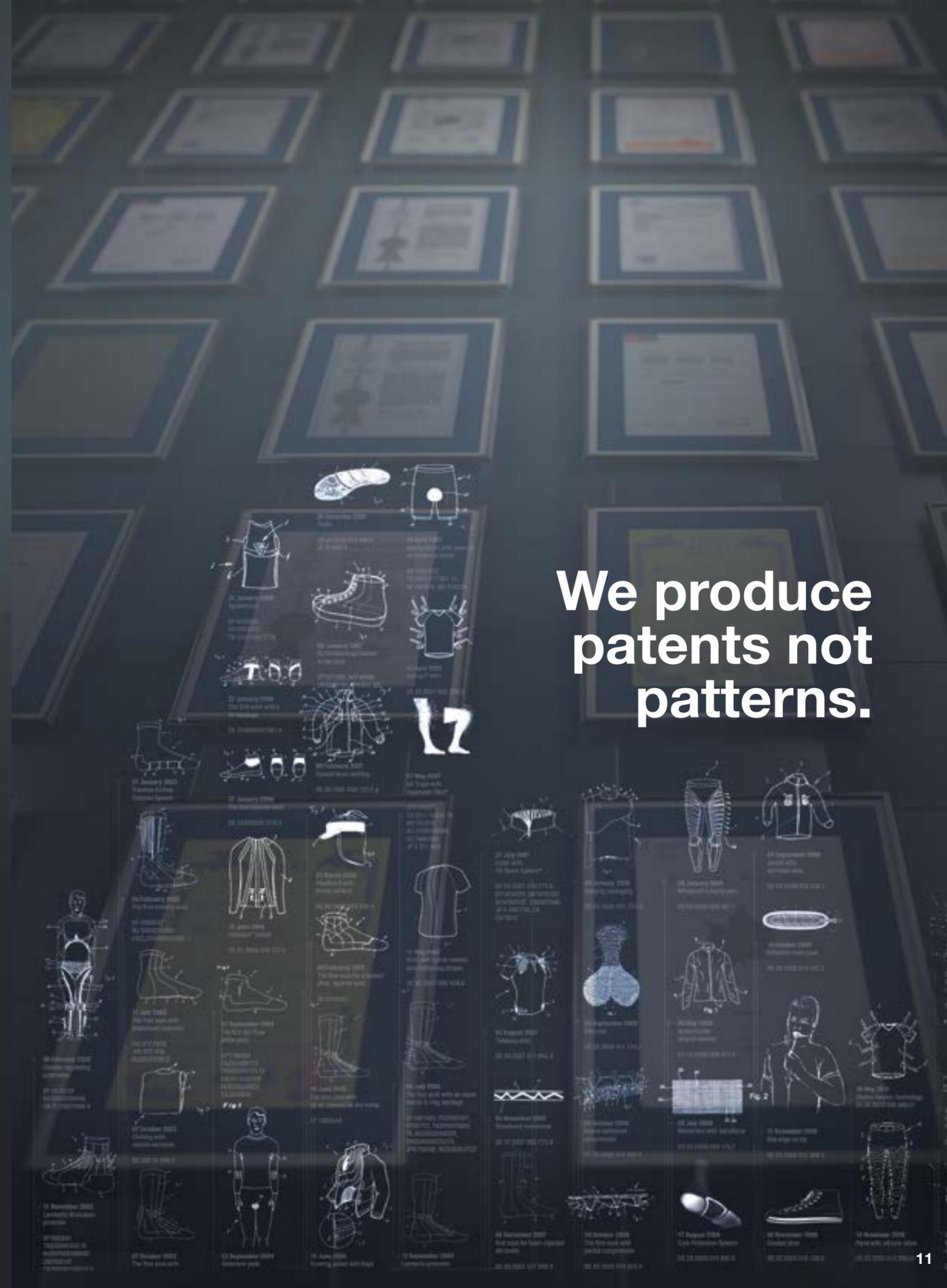
OVER 800 International Patent Registrations

The only real USP, is a patent.

X-BIONIC® uses patented technologies that other brands desire to offer, but just X-BIONIC® owns the right to use. Because X-BIONIC® technologies are so performance enhancing for the athletes, that are protected by patents.

Is an idea really a valuable idea? That's easy to find out: you apply for a patent. Because only genuine innovation receives the status of a patent. Thus the idea enjoys special legal protection. With over 800 patent registrations worldwide, X-Technology® gives customers every opportunity to enhance their own brand with legally secure ideas and functions. Instead of investing in long-lasting, expensive R & D, brands can agilely conquer new territory on the market - powered by patents by X-Technology®.

We produce
patents not
patterns.



OVER 800 INTERNATIONAL PATENT REGISTRATIONS
LEADS TO

OVER 700 International Awards and Test Wins

In innovation, design, high quality, ease of use,
functionality, ergonomics and ecology.



In the last five years one company exceptionally impressed the jury through constant and exemplary research and development in the sector of bionics and the remarkable level of creativity and inspiration: X-Technology® Swiss.

**DONAT BRANDT, PRESIDENT,
PLUS X AWARD**



I am thrilled how this Swiss treasure-trove of innovation consistently manages to raise the standards of the world market to new heights by creating fascinating textiles - visionary and diverse. The 'red dot winner' of X-Technology® Swiss represent athleticism, energy and innovative capacity in a one-of-a-kind manner.

**PROF. DR. PETER ZEC, INITIATOR AND CEO,
RED DOT DESIGN AWARD**



... the 56 awards from iF speak for themselves X-Technology® Swiss has continuously produced exceptional design services throughout, that present a unique spirit of innovation while reflecting tangible user friendliness.

**RALPH WIEGMANN,
CEO, IF INTERNATIONAL**



AWARDED
"THE MOST
INNOVATIVE
BRAND" 11 TIMES
IN A ROW

"The Plus X Award is world's biggest technology, sport and lifestyle contest. Renowned trade journalists and industry personalities form the expert panel who decides upon the quality seals of the innovation award: Innovation, Design, High Quality, Ease of Use, Functionality, Ergonomics and Ecology.

Awarded in the years:
2009, 2010, 2011, 2012, 2013, 2014,
2015, 2016, 2017, 2018, 2019



56 AWARDS
IN 4 CATEGORIES

2005, 2006, 2007, 2009, 2010
2011, 2012, 2013, 2014, 2015,
2016, 2017, 2018, 2019, 2020

"The iF DESIGN AWARD is among the most prestigious and largest design competitions in the world. An iF DESIGN AWARD is a seal of excellence, a testimony of quality, and a challenge to the competition. For users, it is a symbol of trust."



41 AWARDS
16 YEARS IN A ROW

2005, 2006, 2007, 2008, 2009
2010, 2011, 2012, 2013, 2014
2015, 2016, 2017, 2018, 2019,
2020

International seal for design-quality
"Rewarded for outstanding design quality, innovation, functionality, ergonomics and environmental compatibility."



95 AWARDS
IN 17 CATEGORIES

2009, 2010, 2011, 2012, 2013,
2014, 2015, 2016, 2017, 2018,
2019, 2020

"Winning and rewarded for innovation, high quality, design and functionality at world's biggest technology-, sport- and lifestyle contest, which honours manufacturers for their quality advantages."

OVER 700 INTERNATIONAL AWARDS AND TEST WINS
LEADS TO

OVER 1210 International Medals*

Won by athletes wearing X-BIONIC® &
X-SOCKS® in international championships
including the Olympics.

*as of April 2020

Lara Gut-Behrami
Olympic &
World Champion

Wendy Holdener
Olympic &
World Champion

Daniel Yule
Olympic &
World Champion



Swiss ski
OFFICIAL POOL SUPPLIER

INTERNATIONAL SKI MEDALS

AUSTRIA
352 INTERNATIONAL MEDALS
18 OLYMPIC MEDALS



SWITZERLAND
478 INTERNATIONAL MEDALS
10 OLYMPIC MEDALS



ITALY
246 INTERNATIONAL MEDALS
4 OLYMPIC MEDALS



RUSSIA
19 INTERNATIONAL MEDALS



SLOVAKIA
25 INTERNATIONAL MEDALS



A VISIONARY LEADER.

A lifetime achiever.

Wollerau/Cologne/Bonn: Professor Dr. Bodo Lambertz received the international "Plus X Lifetime Achievement Award" on 10 July 2019. The scientist and founder of the Swiss technology company X-Technology Swiss R&D AG is considered a visionary inventor of the high-tech functional clothing brands X-BIONIC®, X-SOCKS® and APANI®. The official award ceremony and TV recording of the award took place in the former German Bundestag in Cologne/Bonn.

The PLUS X AWARD, which is considered the world's largest innovation award for innovation, technology, sport and lifestyle, products, services and brands, dedicates this award to personalities who have set milestones in business and industry, who have created trend-setting products and brands with their spirit and innovative power and serve as orientation and inspiration for others.

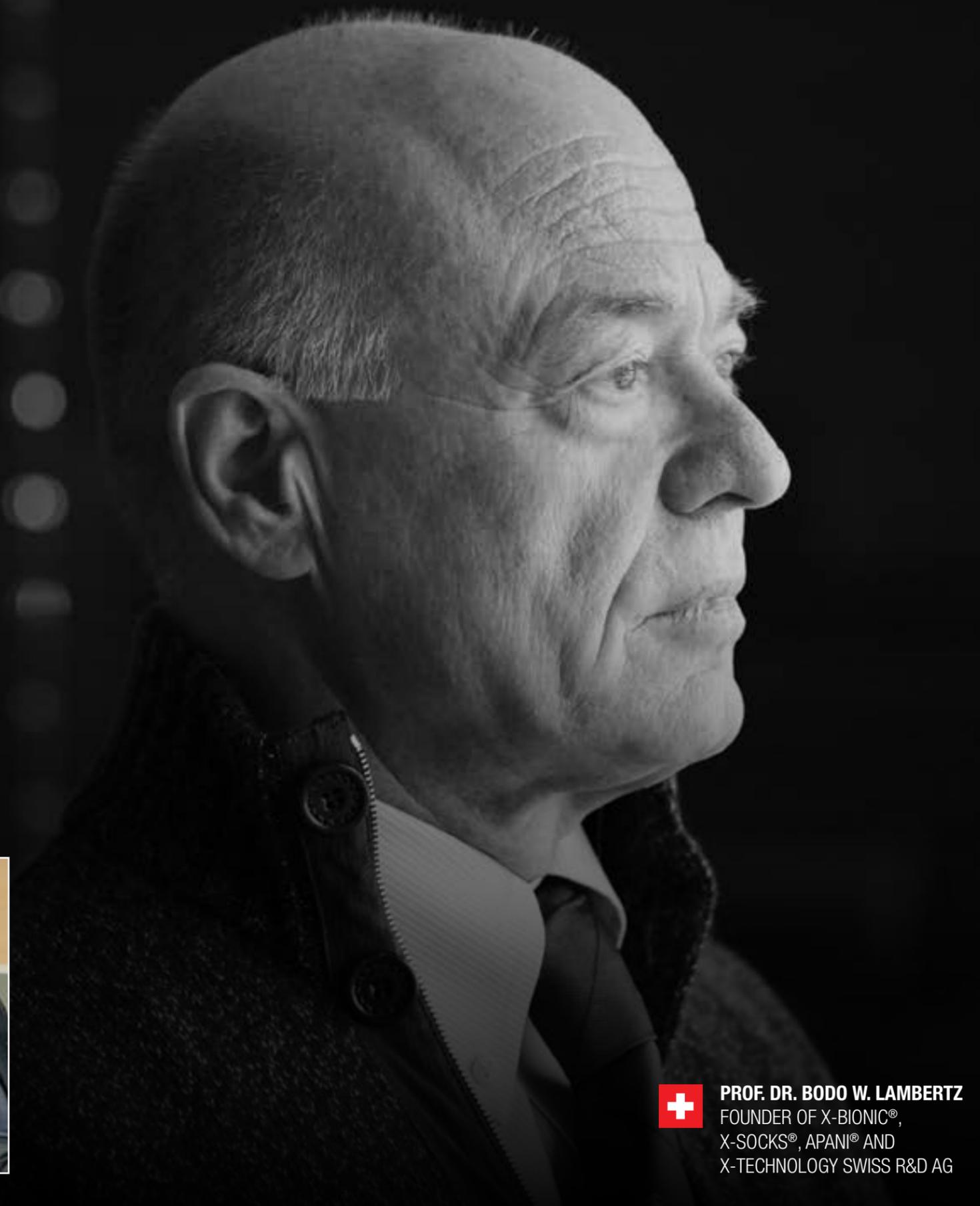
Professor Dr. Bodo Lambertz is only the 7th person to receive this exclusive award. Previous winners include Sir James Dyson (2007), Professor Amar G. Bose (2008), Noel Lee (2012), Peter Skak Olufsen (2013), Prof. Hartmut Esslinger (2015) and Dieter Burmester (2016).

Dr. Lambertz is honored as a visionary scientist and inventor for over 40 years, who has profoundly shaped the industrial landscape with unique ideas, courage, diligence and dedication.

For decades, Professor Dr. Bodo Lambertz, has dedicated himself to the development of performance-enhancing functional clothing, transferring findings from bionic science to interfaces for the skin. With his influential work he laid the foundation for groundbreaking new performance apparel solutions and the integration of patented technologies and thermoregulation into seamless knitting technology.

The premium brands X-BIONIC® and X-SOCKS®, founded by Dr. Lambertz, gained worldwide importance and are today regarded as the most awarded and innovative products of their kind. Based on more than 800 patent applications worldwide, these complex products offer proven performance improvements that are used by sports enthusiasts around the world. X-BIONIC® and X-SOCKS® have won over 700 awards and tests over the past 20 years. The brand has been named "Most Innovative Brand of the Year" 11 times in a row. Professional athletes have won more than 1210 medals at international and Olympic competitions with Dr. Lambertz' products.

Dr. Lambertz has always put his knowledge and his technology company X-Technology Swiss R&D AG at the service of innovation. He is regarded as a valued consultant to international companies and has been involved in technology partnerships with premium brands such as Lamborghini, PUMA and Harley Davidson for many years.



 **PROF. DR. BODO W. LAMBERTZ**
FOUNDER OF X-BIONIC®,
X-SOCKS®, APANI® AND
X-TECHNOLOGY SWISS R&D AG

JOIN THE ELITE.

With our premium brand consultancy.

There are brands that share an exceptional reputation: technological leaders delivering premium quality and a unique brand profile. These brands are highly acclaimed and highly popular, much to the disdain of their competitors. Many of these brands are, or have been satisfied clients of X-Technology® Swiss. With a growing trend towards product exchangeability, the key to success lies in outstanding performance and patentable inventions. Give your brand the crucial competitive advantage it needs – achieve higher profit margins – become a brand that inspires. It's time to stand out from the crowd.



KEEPS YOU PERFORMING under all conditions

TWYCE® 4.0

+ 100% SWISS ENGINEERED

TWYCE THE COOLING, FOR MORE PERFORMANCE

TWYCE® 4.0 is the best and most powerful high-tech interface for your skin when exposed to large temperature variations like when starting from a cool morning into a hot day.

TWYCE® 4.0 doubles the cooling effect, helps the body keep a stable body core temperature of 37° C and leaves even more energy reserves for your training and your sporting performance.



INVENT® 4.0

+ 100% SWISS ENGINEERED

ALL-ROUND EFFECT WITH ADDED ENDURANCE

INVENT® 4.0 supports the body, saving the athletes energy whilst maintaining thermoregulation. Saved energy equals more performance. Using the patented technologies like 3D Bionic Sphere® System and ultra-high resolution RETINA®. INVENT® 4.0 improves your body temperature regulation as well your endurance and comfort.



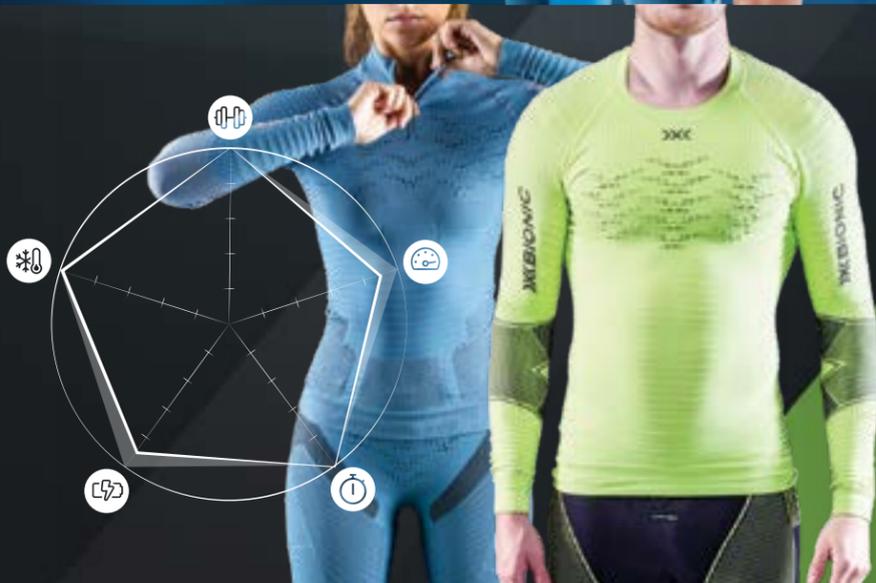
EFFEKTOR® 4.0

+ 100% SWISS ENGINEERED

UNLEASH YOUR BEST COMPETITION PERFORMANCE

Designed for hot climates, EFFEKTOR® 4.0 has been proven to optimize muscle coordination, body temperature control, heart rate, performance duration, recovery time, lactation and nerve stimulation transmission.

EFFEKTOR® 4.0 is sophisticated hardware with patented technologies for maximum performance.

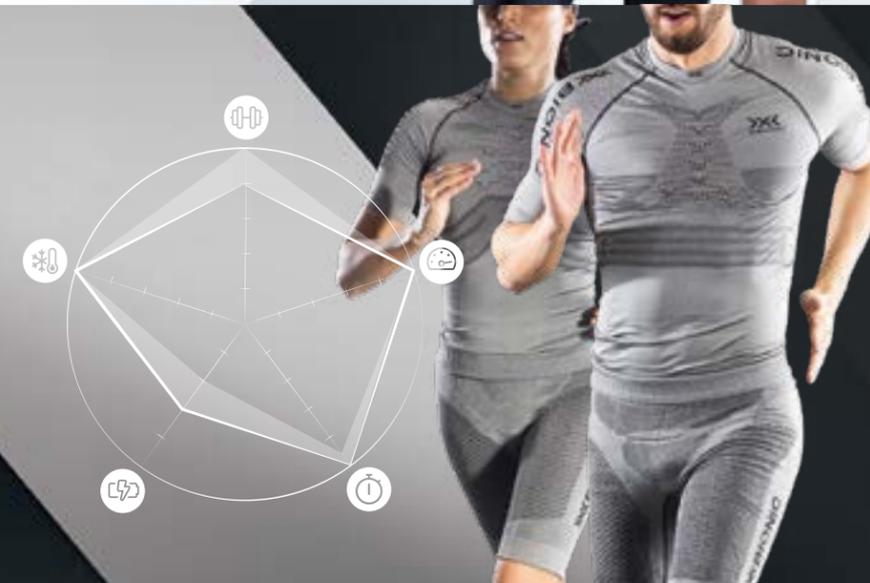


FENNEC® 4.0

+ 100% SWISS ENGINEERED

COOLING IN EXTREME HOT CLIMATES

Inspired by the desert fox Fennec, whose glossy, silvery fur reflects the heat radiated by scorching hot desert sun, thus making it possible for the fox to survive in the heat, X-BIONIC® produced the FENNEC® 4.0 line. Using the revolutionary material XITANIT® 2.0, which mimics the Fennec's ability to get hot on the outside whilst staying cool on the inside. FENNEC® 4.0 acts as a shield against the heat.

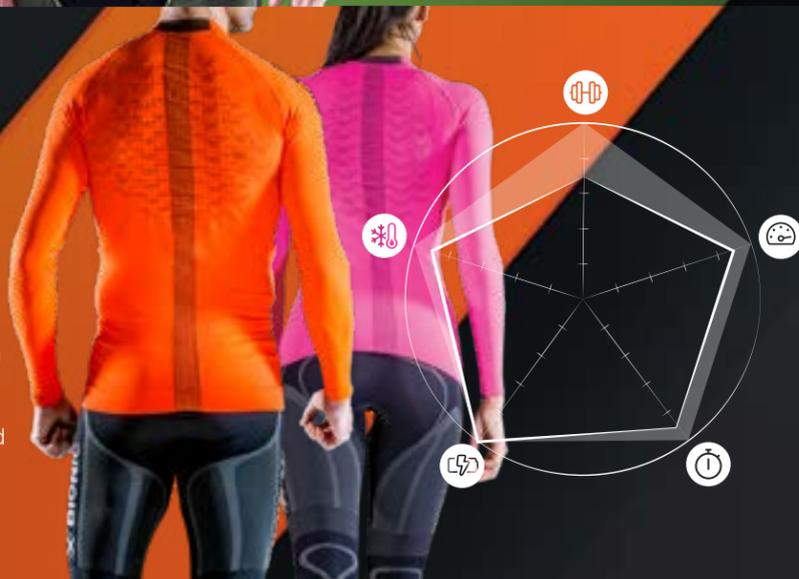


THE TRICK® 4.0

+ 100% SWISS ENGINEERED

EARLIER COOLING, ENHANCED PERFORMANCE

Shorten the warm-up time in competitions and at time-limited training sessions. THE TRICK® 4.0 tricks your brain: A special weave along the spinal column simulates overheating. The brain interprets the signals as a sign that the entire body is overheating. It kicks in sweat production although the body in fact is still near its optimal performance temperature. The result: Even before the body overheats, it's cooled by sweat effectively and more quickly.

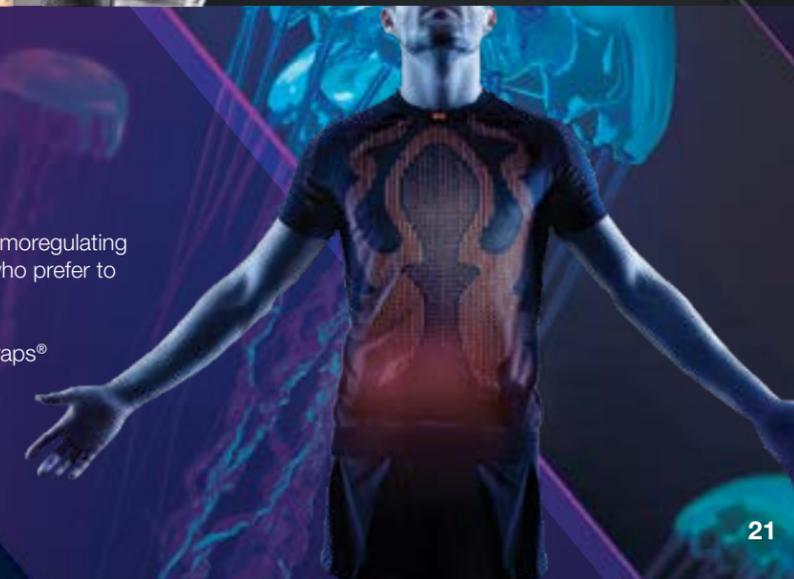


TENTACLE® 4.0

+ 100% SWISS ENGINEERED

BENEFITS OF COOLING WITH A LOOSE-FIT

X-BIONIC® TENTACLE® is the first fully functional, thermoregulating sportswear line that works without a tight fit. People who prefer to wear loose clothing can now also enjoy the patented, award-winning X-BIONIC® technologies, including the 3D Bionic Sphere® System, the patented Sweat Traps® and the ultra-high-resolution Retina® technology.



- *TECHNOLOGIES - Based on 'Energy Accumulator® - Patriot Edition' Technology Levels
- *SUPPORT LEVELS - Based on 'Energy Accumulator® - Patriot Edition' Ultra High Support Levels
- *WARMTH - Based on 'Apani Merino's unique warmth level due to the Merino Wool used
- *COMFORT - Based on 'Apani Merino's unique comfort level due to the Merino Wool used

YOUR DECISION layer wardrobe

PATRIOT EDITION

ENERGY ACCUMULATOR® 4.0

+ 100% SWISS ENGINEERED
HIGHEST PERFORMANCE FOR COMPETITIVE ATHLETES IN COLD CLIMATES

Successful athletes from all over the world share the passion for perfect technique. They are winners, inspire fans, and create moments of the highest enthusiasm. The Patriot Edition of the ENERGY ACCUMULATOR® 4.0, containing our patented 3D Bionic Sphere® System with ThermoSyphon® Technology and the Ultra-high-resolution Retina®, was created for them.



A BLEND OF HIGH TECH FUNCTIONALITY AND WARMTH WITH SUPREME COMFORT

Wool warms by nature but isn't smart. Through implementing numerous, sophisticated technologies like their 3D Bionic Sphere® System with ThermoSyphon® Technology, X-Technology® Swiss have created smart wool. APANI® MERINO – 'as pure as nature intended®' – naturally cools, warms and dries where required and not just where it can. APANI® is an ecological product, which guarantees the highest degree of form stability and comfort.



ENERGY ACCUMULATOR® 4.0

+ 100% SWISS ENGINEERED
BOOST YOUR SPORT WITH THE MOST INNOVATIVE PERFORMANCE-ENHANCEMENT

ENERGY ACCUMULATOR® 4.0 is the result of 20 years of constant development and improvement. Featuring the award winning 3D Bionic Sphere® System with ThermoSyphon® Technology and the RETINA® ultra-high-resolution quality, the X-BIONIC® ENERGY ACCUMULATOR® 4.0 represents the pinnacle of high-tech performance wear. Efficiently cooling you when you sweat and warming you when you are cold. Turning sweat into energy.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED
MAXIMIZE YOUR TRAINING PERFORMANCE THROUGH SMART TEMPERATURE REGULATION

In order to keep you performing under all conditions, X-BIONIC® engineers have made the tried-and-tested even better and adapted the ENERGIZER® line based on the latest scientific studies. The ENERGIZER® 4.0. is a technically outstanding product, that optimally supports thermoregulation, acting as a stabilizer allowing the body to focus on performance and thus increasing it.

RADIATOR 4.0

+ 100% SWISS ENGINEERED
INTELLIGENT PERFORMANCE ENHANCEMENT AND ISOLATION FOR WINTER SPORTS

The RADIATOR® 4.0 created out of the unique, heat reflecting XITANT 2.0 yarn, sets a new standard in performance decision layers for winter sports. The ultra-high-resolution Retina® quality and 3D Bionic Sphere® System with ThermoSyphon® Technology provide maximum cooling performance and functional density, making it the choice of Swiss skiing champions.



WENDY HOLDENER
ALPINE SKI OLYMPIC & WORLD CHAMPION



INVENT® 4.0

+ 100% SWISS ENGINEERED
IMPROVE YOUR PERFORMANCE AND COMFORT IN LEISURE SPORTS

X-BIONIC® INVENT precisely supports your body temperature regulation. The 3 dimensional knit structure can hold an insulating layer of air on the body, which helps create an optimally balanced personal climate, even in the harshest of winter conditions. In the activity phase excess warmth can be dissipated quickly via the Air-Conditioning Channel® and the AirConditioningSpot.



X-BIONIC® SYSTEMGEAR

Patented in 21 Countries:

AT, BE, CH, CZ, DE, DK, ES, FI, FR, GB, HR,
IT, LU, NL, PL, PT, RO, SE, SI, SK, TR

03 SHELTER LAYER

The job of the third layer is to protect the body during physical activity from outside influences such as cold, wind and rain. In that way it achieves overarching performance without detracting from the function of the layers underneath.



Achieve your full potential in all environmental conditions.

Until now athletes needed a broad assortment of varying technical pieces to adapt optimally to different environmental conditions. The patented X-BIONIC® SystemGear revolutionises this basic concept.

Every X-BIONIC® component on its own already can be used in a much broader spectrum of conditions than traditional functional apparel. Be it cold or hot, it supports the optimal body core temperature of 37 °C with intelligent, highly efficient moisture management.

That's why there are decisive advantages to X-BIONIC® SystemGear: a highly efficient, interactive layering system that with only a few components can create the perfect moisture management. With it, athletes of all types who do all kinds of sports in all sorts of conditions are outfitted and ready. They can make decisions easier about which is the correct piece of apparel to use than ever before, and they enjoy the security of knowing they will achieve their true performance ability.

01

01 DECISION LAYER

This builds the first and decisive layer of the system. It cools when you sweat and warms when you're cold. During higher levels of activity a thin, cooling film of moisture is maintained while excess sweat will be transported away. During light activity, the Decision Layer insulates. The result? The body remains optimally regulated, and the athlete longer able to perform powerfully.

02

02 TRANSMISSION LAYER

The second layer of the system disperses the moist warmth in the inner milieu, without allowing the moisture to condense, and therefore stabilises the cooling effect of the first layer. At the same time it builds channels and spaces in which warm air can be collected and stored. If however the weather is warm, it holds the insulating heat of the Transmission Layer away from the body.

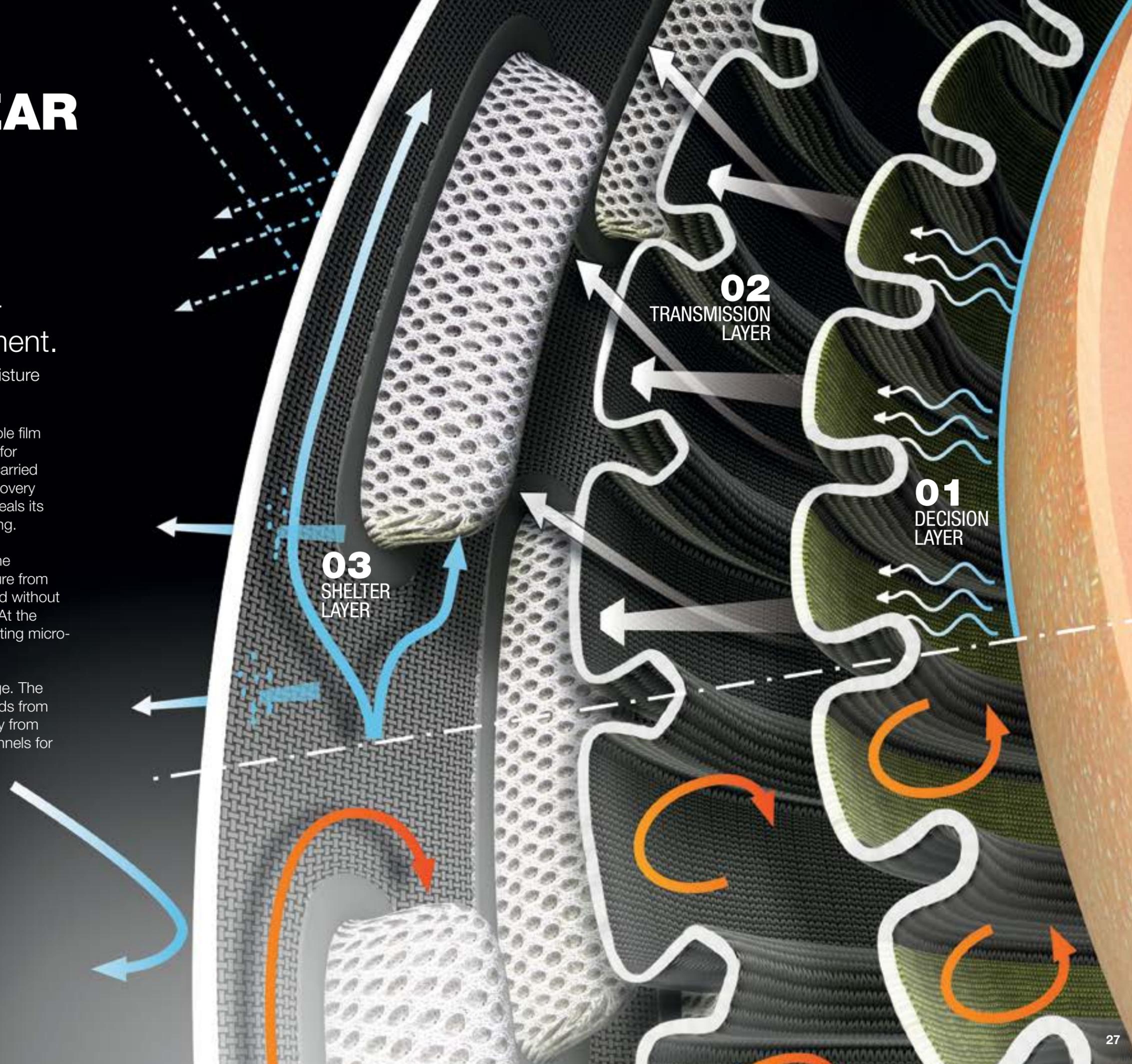
X-BIONIC[®] SYSTEMGEAR

Patented in 21 Countries:
AT, BE, CH, CZ, DE, DK, ES, FI, FR, GB, HR,
IT, LU, NL, PL, PT, RO, SE, SI, SK, TR

Teamwork for superior temperature management.

Cooling or warming effect through moisture regulation.

1. The Decision Layer leaves an imperceptible film of moisture on the skin that can be used for evaporative cooling. Excess moisture is carried outward to the Transmission Layer. In recovery or inactive phases the Decision Layer reveals its insulative abilities and protects from chilling.
2. Condensation-free moisture transport. The Transmission Layer takes over the moisture from the Decision Layer and transfers it onward without condensation to the outer Shelter Layer. At the same time, it builds a temperature-regulating micro-climate around the body.
3. Exterior protection and moisture discharge. The Shelter Layer transports moisture outwards from the Transmission Layer, protects the body from environmental influences, and builds channels for effective air circulation and insulation.



37°C CCR TECHNOLOGY

Sweat is far too valuable to waste.

In order for the human body to function, its body core temperature must be 37°C. If it threatens to drop below that, the body tries to maintain it by shutting off the blood flow in the veins and capillaries to the extremities, and by starting to shiver. During sports it's the other way around. Physical exertion and activities dilate your blood vessels and when the body temperature begins to climb, the body starts to sweat.



Traditional functional apparel

Traditional athletic apparel draws the sweat away from the skin. The body overheats.

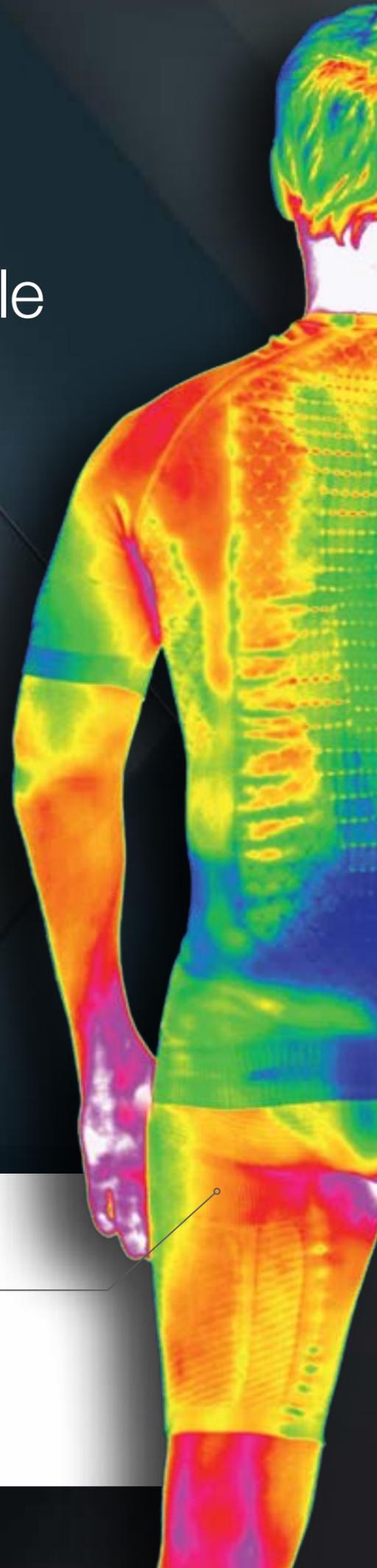


X-BIONIC® Fennec® Running Shirt

X-BIONIC® leaves sweat on the skin for cooling. Optimal body core temperature of 37°C is maintained.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37°C with our patented technologies.



“Endurance athletes use up to 97% of their energy in extreme cases just to maintain their optimal body core temperature of 37°C. That leaves only 3% for performance.”

Dr. Ückert, Dortmund University.

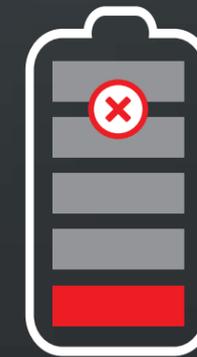
Better performance at the right temperature

30°C

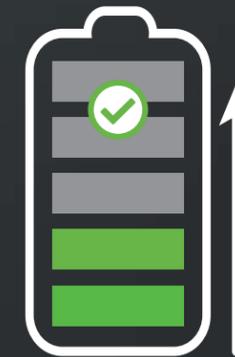
Energy consumption needed to maintain 37°C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37°C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.

28°C



Usable power for your performance without energy-saving technology.



More usable power for your performance with energy-saving technology from X-BIONIC®.

26°C

24°C

Independantly tested by the professionals, the proof is in the science.

For X-BIONIC®, the Eidgenössische Materialprüfungs- und Forschungsanstalt EMPA (Swiss Material Testing and Research Institutions) Materials Science & Technologies Division tested ambient temperatures of 40°C and more. The body core temperature of an athlete can quickly reach 40 degrees – the point where collapse is a risk. Equipped with the X-BIONIC® Interface, heat stays away from the body. Find out more at:

www.sportscience-laboratories.com



THE MOST POWERFUL

X-BIONIC® GENERATION

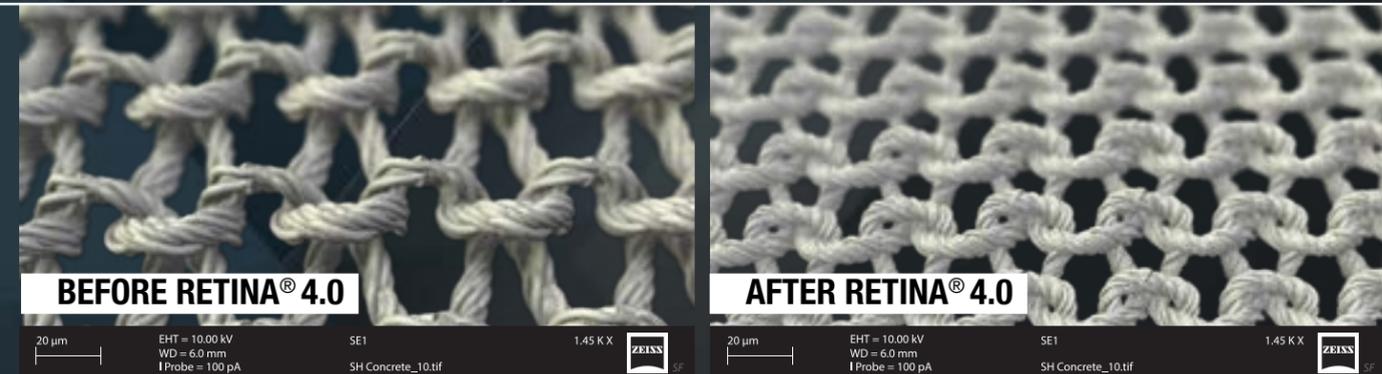
4.0

An update from the past, bringing ultra-high precision and enhanced performance to the new era of X-BIONIC® 4.0



DURING ACTIVITY
Cools when you sweat

DURING RECOVERY
Warms when you are cold



3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR



RETINA® FUNCTIONAL WEAR BECOMES A PRECISION TOOL



The human retina is a miracle of evolution. With its millions of receptors, the multilayered specialized nerve tissue inside the eye defines our visual perception of the world – and provides our brain with high-resolution data for orientation and bodily coordination. Now X-BIONIC® transfers this evolutionary achievement to the skin.

The innovative RETINA® ultra-high-definition technology makes it possible to build a superior class of functional clothing for performance beyond anything ever achieved before.

X-BIONIC® PARTIALKOMPRESSION®

A new benchmark in compression technology. Partialkompression® by X-BIONIC® utilizes the advantages of compression without neglecting cooling.

During sport activities body warmth is created. In extreme situations up to 1,200 watts worth. Up to 90% of this is released by the athlete from the skin to maintain a body temperature of 37°C. X-BIONIC® Partialkompression® applies targeted pressure on 1mm wide ridges. Left and right of the ridge is a compression-free area where compression could have a negative effect on blood circulation to the skin. In this way the blood flow through veins and capillaries remain unimpeded.

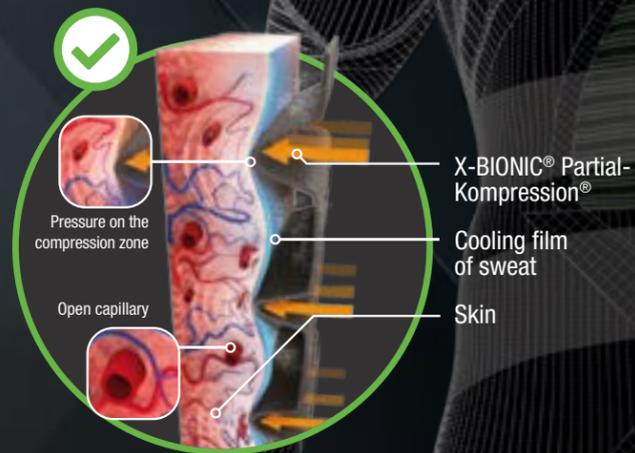
Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

THE RESULTS ARE REVOLUTIONARY:

- Reduces muscle vibration
- Improves muscle uptake of oxygen and nutrients
- Speeds recovery

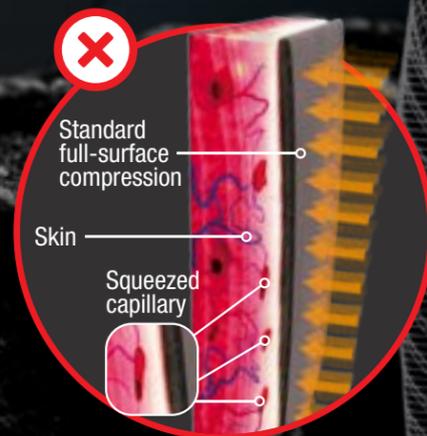
+ COOLING MECHANISM

Partialkompression® uses the skin as a surface for cooling and, thus, can take advantage of the body's personal micro-climate for optimising performance.



X-BIONIC® PARTIALKOMPRESSION®
keeps the capillaries open.

→ The body cools down



Standard, full-surface compression
chokes the blood vessels.

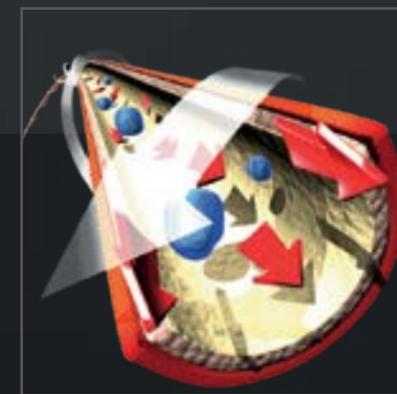
→ The body overheats

First the pressure increases,
then your performance:

X-IMPACT TECHNOLOGY

As soon as your muscles quiver from fatigue, their lack of strength will hinder your performance. And athletic success will slip farther from your grasp. Decision Layer by X-BIONIC® is the intelligent technical base layer that thanks to compression can help athletes again edge closer to success because it stabilises active muscles. They don't quiver; rather they can more effectively use the energy resources that are there for the taking. Even in the more advanced stages of races you'll be able to fully rely on your muscles with X-BIONIC®. Even when you already have the championship in your grasp.

Optimal oxygen uptake and nutrient supplies for your body also are an important foundation for athletic success. If you are hungry for victory, you can't let your body starve in any stage of the race. X-Impact Technology stabilises your capillaries and veins. It takes the stress off your circulatory system and quickly supplies muscles and organs with performing-enhancing oxygen and nutrients. Your body can tap into all of its resources at the right time so you can be victorious in the tough races.



Improved oxygen and nutrient supply to the muscles



Reduction of muscle vibrations

SKIN NODOR® TECHNOLOGY

High-Tech, Nano-Particles, Crash Safety.
Almost sounds like we build cars.



The big jump is when the thought process veers away from well-travelled paths. That starts the real thinking about the best materials. Aluminium revolutionised aerospace, and then carbon fibre revolutionised cycling. Revolutionary innovations in materials by X-BIONIC® today define a new dimension in technical apparel.

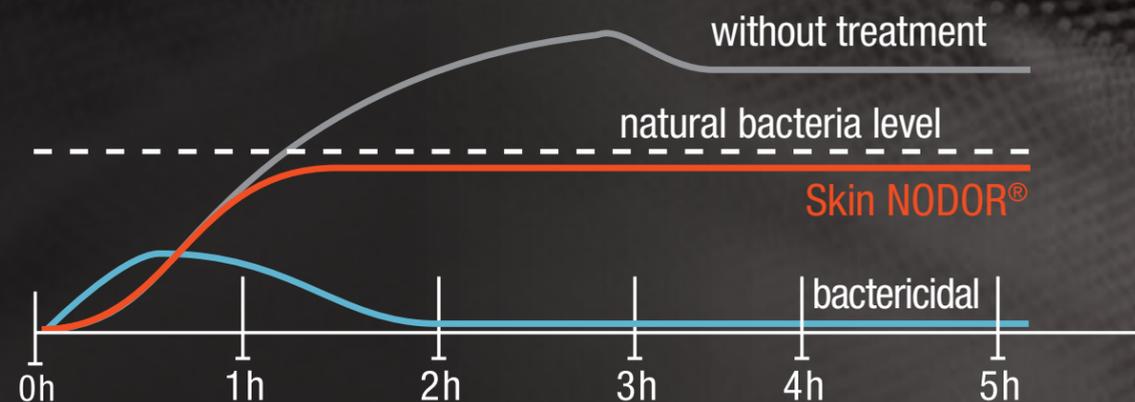
For X-BIONIC®, production begins in the research labs. We utilise knowledge from aerospace and the automobile industry, develop them a step further and take advantage of the material's abilities, which nobody had trusted in the past. That has earned us many patents and awards. That has earned you the security that the sports performance products from X-BIONIC® have been conceptualised to support you optimally down to the smallest detail during both your training and competition.

Day by day, our textile experts in the X-BIONIC® headquarters in Wollerau, Switzerland, work on advanced solutions for tomorrow. We don't just give our products nice-sounding names. We bestow on them perfectly calculated functionality. Our materials can reflect heat, absorb odours, and duct moisture. They can use wind power, create warp knits, and preserve warmth. Along the way, we construct surfaces, corners and edges that can function in the way intended, exactly when your body needs that function. And exactly where it can be best used.

Does the future of functional apparel lie in ceramics? With nano-fibres? Will you run your marathon in 2025 in Running Pants made of hollow-core carbon fibre? The only certain thing is that the next generation of functional apparel will most likely come from the textile laboratories of X-BIONIC®.

Skin NODOR®'s pH neutral ions actively inhibit bacteria buildup and minimize odour-causing micro-organisms.

Reproduction of bacteria



SKIN NODOR®

Skin NODOR® is a climate-activated nano-filament which incorporates an inorganic, antimicrobial ingredient in its interior. The gradual release of ions, which are activated by body heat, is the key to the effectiveness of Skin NODOR®. These ions inhibit the growth of microorganisms rather than eliminating them outright, thus preserving the delicate balance of the skin's ecosystem. In other words, Skin NODOR® is antimicrobial (i.e. it inhibits bacterial growth), rather than bactericidal (bacteria-killing). Therefore, allergic reactions do not occur. Skin NODOR® is especially soft and breathable and provides superior fit.



🇨🇭 SWISS ENGINEERED
🇮🇹 CRAFTED IN ITALY

turn sweat into energy®
RUNNING

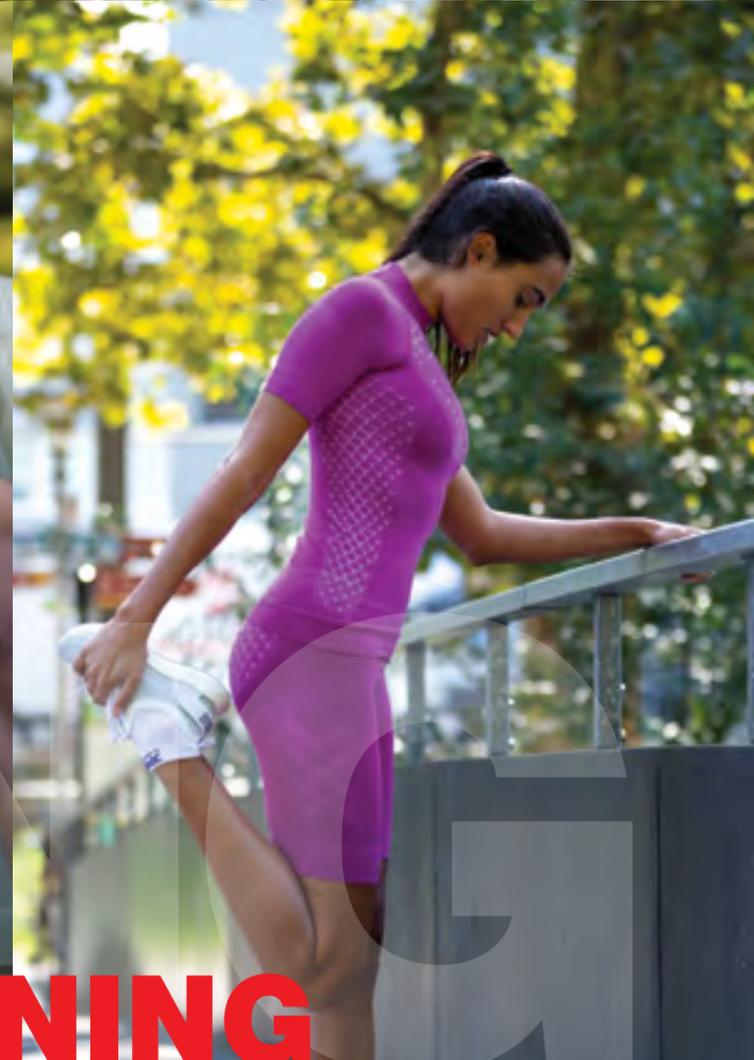
version1.0 / 2020

100% RESEARCH, DEVELOPMENT, DESIGN  COMMUNICATION DONE IN SWITZERLAND



X-BIONIC®

SWISS ENGINEERED
CRAFTED IN ITALY



RUNNING

RUNNING

7 DAYS, 7 MARATHONS, 7 CONTINENTS: LUKASZ URBANIAK, X-BIONIC® ATHLETE



Lukasz Urbaniak
PROFESSIONAL ATHLETE

Running a marathon alone is an incredible undertaking, now try doing seven of those on consecutive days. Seems nearly impossible, right? Now imagine that the rest time between the marathons is spent on an airplane jetting to a different continent each day. Now you can begin to grasp the immense physical toll that this undertaking would bring with it, let us introduce you to #xbathlete that has done it:

Lukasz Urbaniak.

As part of the World Marathon Challenge, Lukasz has braced the elements, all of them. From the inhumane temperatures in the Antarctic to the tropical heat of Brazil, Lukasz ran marathons in the widest temperature range possible and he couldn't have done it without his trusted X-Bionic gear. Competing in such conditions can quickly lead to injuries as a lot of other competitors in the race realized, but thanks to the temperature optimizing function of his luxury sportswear Lukasz overcame all the challenges and even managed to secure a podium finish in the Antarctic marathon.

“I am living proof of the truly professional products of X-Bionic. Every day I competed in completely different climates, completely different places and conditions, every marathon in a different X-Bionic outfit and I always felt comfortable my X-Bionic clothes.”

Dr. Lambertz has always put his knowledge and his technology company X-Technology Swiss R&D AG at the service of innovation. He is regarded as a valued consultant to international companies and has been involved in technology partnerships with premium brands such as Lamborghini, PUMA and Harley Davidson for many years.



TWYCE® 4.0

+ 100% SWISS ENGINEERED

TWYCE THE COOLING, MORE PERFORMANCE

TWYCE® 4.0 is the best and most powerful high-tech interface for your skin when exposed to large temperature variations like when starting from a cool morning into a hot day.

TWYCE® 4.0 doubles the cooling effect, helps the body keep a stable body core temperature of 37° C and leaves even more energy reserves for your training and your sporting performance.



RUNNING

X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

INVENT®

FENNEC®

TENTACLE®

ENERGIZER®

X-BIONIC® TWYCE® COOL ZONE

Special knitted structure absorbs sweat from the 3D Bionic Sphere® System with ThermoSyphon® Technology. The mechanical “push-pull effect”, which is generated by combining hydrophobic fibre with a hydrophilic fibre, rapidly transports sweat through the fabric.



Optimal sweat transport: Thanks to X-BIONIC® TWYCE® Y-Structure.

The TWYCE® innovation: the Y-Structure created from hydrophobic and hydrophilic fibres generates a “push-pull effect”, which helps to transport sweat more quickly from the 3D Bionic Sphere® System with ThermoSyphon®, and distribute it where it can evaporate with a maximum cooling effect.



Hydrophilic yarn (evaporation)

The moisture-attracting yarn absorbs sweat on the fibre surface like a sponge and it evaporates quickly. Capillary effects attract more sweat from the surrounding hydrophobic Y-Structure elements.



Hydrophobic yarn (transportation)

The moisture-repellent properties of this yarn shuttle sweat away from the more saturated hydrophilic zones to the less saturated ones. Sweat is distributed over a larger area of the TWYCE® Cool Zone.

TWYCE THE COOLING, TAKEN TO THE NEXT LEVEL

Innovation stands at the forefront of everything that we do at X-BIONIC® and when you tell us that you love a product, we work hard on making it even better, even if it seems nearly impossible. After the flood of positive feedback, we gave our best to develop the TWYCE® 4.0 generation further, creating an even more powerful garment, the improved **TWYCE® 4.0**.

Equipped with even more cooling ability than its predecessor, thanks to a **50% increase of the TWYCE® Cool Zone**, sweat evaporates over a broader area, including the shoulders, ensuring you'll never have to fear overheating again. We've increased the cooling performance thanks to strategically **expanding the 3D BIONIC SPHERE® System with THERMOSYPHON® Technology by 75%** to also be **incorporated adjacent to the Aircomplex Zone through the addition of the 3D BIONIC SPHERE® System**. This increase in the technologies surface area allows for an even stronger cooling effect. Optimized through scientific testing and real-world experience, the 3D BIONIC SPHERE® System stops unpleasant humidity and the risk of overheating or chilling during and the physical activities, rest and recuperation phases. Once your body heats up and begins to sweat, the cooling function is activated.

Our continued innovational spirit can be seen in the **incorporation of new technologies into the IMPROVED 4.0 edition like our AIR GUIDE®**, which frame our AIR-CONDITIONING CHANNELS® to ensure the cooling effect is upheld even when the garment is covered by a second layer. The AIR GUIDE® consists of 3-dimensional lines that also increase the evaporation rate of the improved **TWYCE® 4.0**. The **addition of the ISO-Pads** keep you protected against the cold through targeted insulation of individual body parts, further optimizing the TWYCE® range for all weather conditions.

In addition to the new technologies, the improved **TWYCE® 4.0** also sees **updates to the existing AIRCOMPLEX ZONES. Increased surface area of this technology at the solar plexus** protect important nerve fibers, that receive signals to influence the entire body's wellbeing, through optimal insulation. The system's structure processes excess sweat from physical activity and ensures the ideal performance body core temperature. Another key element of the improved **TWYCE® 4.0** collection is the continued use of our unique PARTIALKOMPRESSION® Technology in our pants. The patented X-BIONIC® PARTIALKOMPRESSION® sets a new benchmark in compression technology, utilizing the advantages of compression without neglecting cooling. PARTIALKOMPRESSION® improves your oxygen and nutrient supply to the muscles, leading to a better performance and a faster recovery.

The cycling line continues to be a cyclist's best friend with the foam based 4000FX BIKE PAD®, delivering a combination of comfort and performance. Equipped with even more technology and increased efficiency, the improved **TWYCE® 4.0** gear puts you on the path to success.

Our patented 3D BIONIC SPHERE® System with THERMOSYPHON® Technology along with our patented SWEAT TRAPS®, remain the unique selling points of the technology filled garment, ensuring it'll sell like hotcakes.

TWYCE® 4.0

+ 100% SWISS ENGINEERED



+75%

ELEMENTS EXPANDED BY 75%,
ALLOWING OPTIMAL CLIMATE BALANCE

Cools when you sweat,
Warms when you are cold.
3D BIONIC SPHERE® SYSTEM WITH
THERMOSYPHON® TECHNOLOGY

+50%

EXTENDED AND
INCREASED BY 50%

Enhancing cooling effect.
TWYCE® COOL ZONE

EXTENDED
EXTENDED AND PLACED ADJACENT
TO THE AIRCOMPLEX ZONE FOR A
STRONGER COOLING EFFECT

Cools when you sweat,
Warms when you are cold.
3D BIONIC SPHERE® SYSTEM

BIGGER

BIGGER TO INCREASE
EVAPORATION SURFACE AREA

Optimal cooling
in the core.
AIRCOMPLEX ZONE

UPDATED

UPDATED: GREATER EFFECT
TO RETAIN OPTIMAL TEMPERATURES

Targetted insulation areas.
ISO PADS

NEW

NEW

Channels air to areas where
it is needed most.
INTEGRATED AIR GUIDE®

X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

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Keeps the shirt from slipping up or constricting.

RETINA®
Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

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XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

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37 °C CCR-TECHNOLOGY
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TWYCE® 4.0
+ 100% SWISS ENGINEERED

MEN **RUNNING SHIRT SH SL**

TW-RT00S21M

COMPOSITION
90% Polyamide
7% Polypropylen
3% Elastane

1



MEN

X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

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1



TWYCE® 4.0

+ 100% SWISS ENGINEERED

MEN **RUNNING SHORTS**

TW-R500S21M

COMPOSITION
90% Polyamide
7% Polypropylen
3% Elastane

X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

INVENT®

FENNEC®

TENTACLE®

ENERGIZER®

MEN

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WOMEN **RUNNING SHIRT SH SL**

1

TW-RT00S21W

COMPOSITION
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WOMEN

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WOMEN RUNNING SHORTS

TW-R500S21W

COMPOSITION
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1



WOMEN

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THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

RUNNING SHIRT SH SL
 TW-RT00S21M

SIZES: XS S M L XL XXL



A022 TWYCE BLUE/
OPAL BLACK
- NEW -

B002 OPAL BLACK/
ARCTIC WHITE
- NEW -

R011 NAMIB RED/
DOLOMITE GREY
- NEW -

RUNNING SHORTS
 TW-R500S21M

SIZES: XS S M L XL XXL



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NOTES

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RUNNING SHIRT SH SL
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MEN **RUNNING SHIRT SH SL**

2019 STYLE TW-BT00S19M

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Keeps the shirt from slipping up or constricting.

RETINA®
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INTELLIYARNS®
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XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

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37 °C CCR-TECHNOLOGY
X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



TWYCE® 4.0

+ 100% SWISS ENGINEERED

MEN **RUNNING SHIRT LG SL**

2019 STYLE TW-RT06W19M

COMPOSITION
90% Polyamide
7% Polypropylen
3% Elastane



MEN

X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

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TENTACLE®

ENERGIZER®

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This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

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Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

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The ergonomically shaped waistband provides a better fit during movement.

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MEN RUNNING SHORTS

2019 STYLE TW-R500S19M

COMPOSITION
80% Polyamide
12% Elastane
8% Polypropylen



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+ 100% SWISS ENGINEERED

MEN RUNNING PANTS

2019 STYLE TW-RP05W19M

COMPOSITION
80% Polyamide
12% Elastane
8% Polypropylen



MEN

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EFFEKTOR®
INVENT®
FENNEC®
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TWYCE® 4.0
+ 100% SWISS ENGINEERED

WOMEN **RUNNING SHIRT SH SL**

2019 STYLE TW-RT00S19W

COMPOSITION
90% Polyamide
7% Polypropylen
3% Elastane



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EFFEKTOR®
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WOMEN

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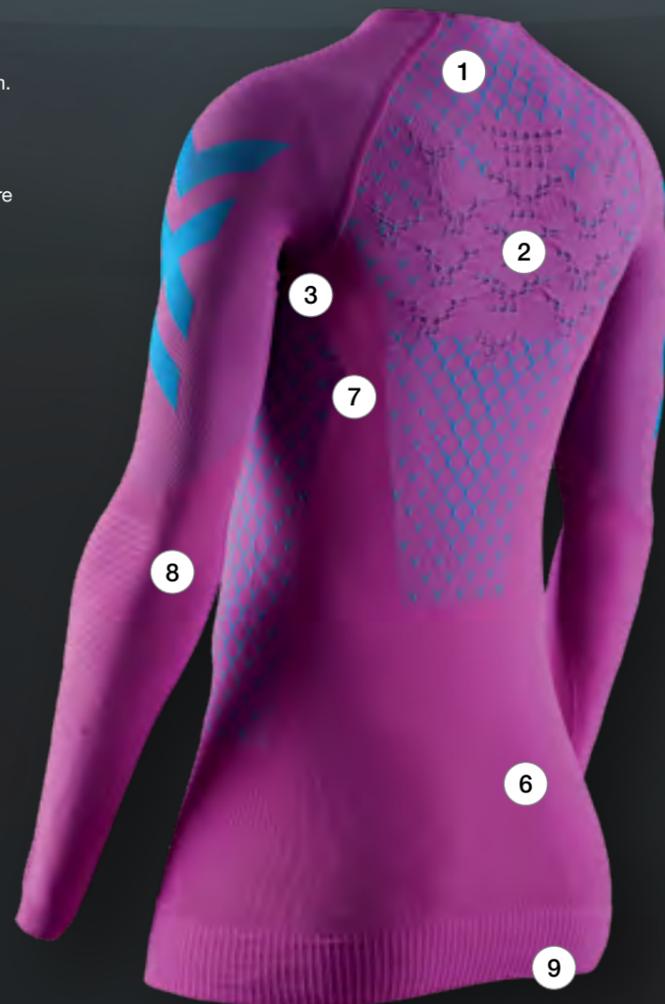
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WOMEN **RUNNING SHIRT LG SL**

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37 °C CCR-TECHNOLOGY

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The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



TWYCE® 4.0

+ 100% SWISS ENGINEERED

WOMEN RUNNING PANTS

2019 STYLE TW-RP05W19W

COMPOSITION
80% Polyamide
12% Elastane
8% Polypropylen



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

INVENT®

FENNEC®

TENTACLE®

ENERGIZER®

RUNNING SHIRT SH SL
 TW-RT00S19M

SIZES: XS S M L XL XXL



RUNNING SHIRT LG SL
 TW-RT06W19M

SIZES: XS S M L XL XXL



RUNNING PANTS
 TW-RP05W19M

SIZES: XS S M L XL XXL



RUNNING SHORTS
 TW-R500S19M

SIZES: XS S M L XL XXL



NOTES

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RUNNING SHIRT SH SL
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 TW-RT06W19W

SIZES: XS S M L XL XXL



RUNNING PANTS
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SIZES: XS S M L XL XXL



RUNNING SHORTS
 TW-R500S19W

SIZES: XS S M L XL XXL



NOTES

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THE TRICK[®] 4.0

+ 100% SWISS ENGINEERED

EARLIER COOLING, ENHANCED PERFORMANCE

Shorten the warm-up time in competitions and at time-limited training sessions. THE TRICK[®] 4.0 tricks your brain: A special weave along the spinal column simulates overheating. The brain interprets the signals as a sign that the entire body is overheating. It kicks in sweat production although the body in fact is still near its optimal performance temperature. The result: Even before the body overheats, it's cooled by sweat effectively and more quickly.

RUNNING

ENERGIZER[®] | TENTACLE[®] | FENNEC[®] | INVENT[®] | EFFEKTOR[®] | THE TRICK[®] | TWYCE[®] | X-BIONIC[®]

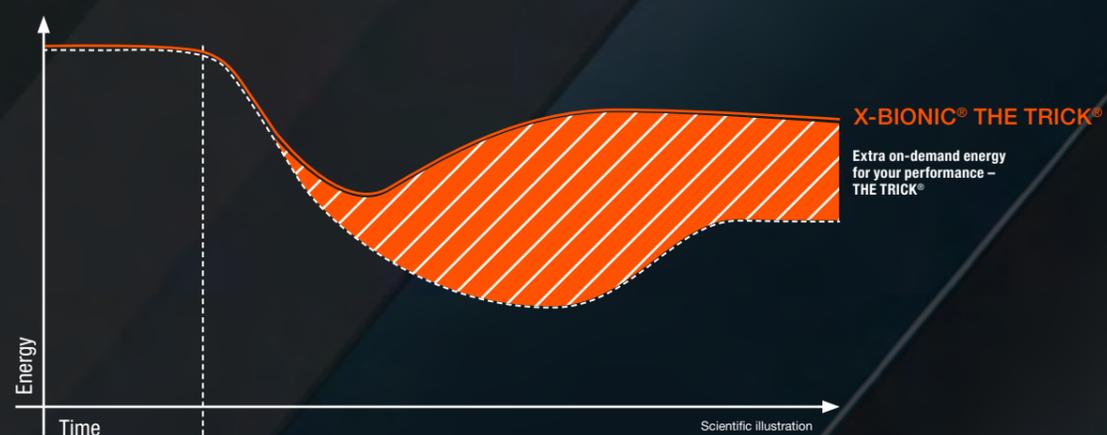
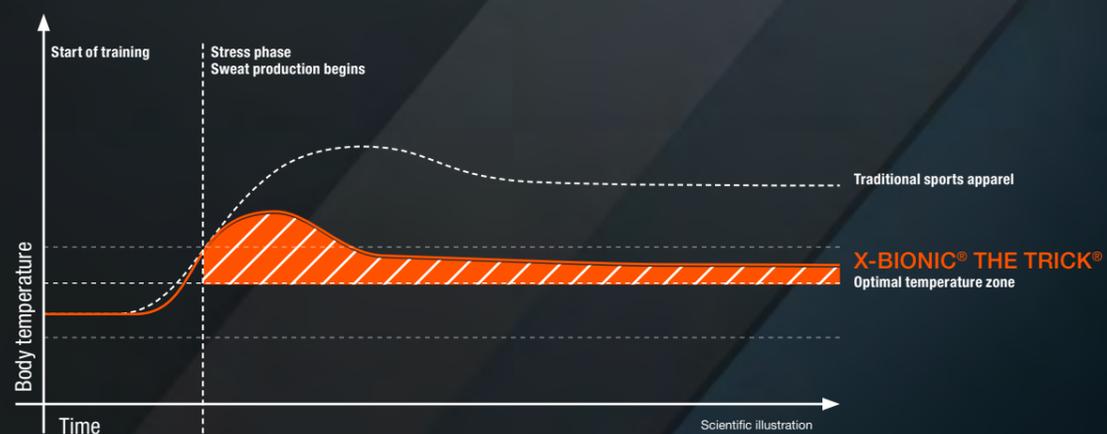
X-BIONIC® THE TRICK® 4.0

High-performance cars have sophisticated cooling systems. These prevent power-sapping, overheating and enable the engine to deliver extreme performance. The same thing applies to elite athletes. Thanks to THE TRICK® 4.0.

Patented, innovative technologies straighten performance curves. The cooling effect cuts in before strength is sapped, ensuring that more energy is available for your performance.

Patented in 24 Countries: AT, BE, CH, DE, DK, ES, FI, FR, GB, IS, IT, LU, NL, PL, SE, SI, TR, AU, BR, CA, CN, IN, MX, RU

➔ EARLIER COOLING = ENHANCED PERFORMANCE with THE TRICK® 4.0 from X-BIONIC®



Tricks your brain:

THE TRICK® 4.0 switches your body into cooling mode earlier, your performance improves from the start.

THE PROBLEM:

Normal thermoregulation during athletic activity follows defined rules: when the body temperature during activity climbs over a certain point, sensors in the back notify the brain via the spinal cord of the need for cooling. Only then is sweat produced to cool the already overheated body.

THE SOLUTION:

With THE TRICK® 4.0, the developers at X-BIONIC® have found a new and superior way to thermoregulate. Along an insulation zone on the spine, an overheating of the body is simulated, and the brain kicks in with early sweat production. Even before the body overheats, it's cooled by sweat effectively and more quickly. The strain on physical systems is relieved.

SPECIAL STRUCTURES ALONG THE SPINE TRICK THE HEAT RECEPTORS:

1 SPINE INSULATION ZONE

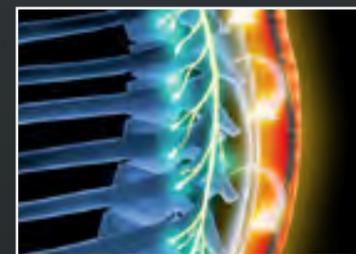
Special knitted structures placed along the spine simulate the entire body warming up. In addition, it creates a localised zone of warmth where the body temperature climbs distinctly higher than on the rest of the body.



Spine Insulation Zone
Creates a localised zone of warmth.

2 SENSORS

Sensors along the spinal cord: within the zone of warmth, they register a strong warming trend. The sensors transmit their observation along the spinal cord to the brain.



Sensors
Register a strong warming trend.

3 SIGNALS

The brain interprets the signals as a sign that the entire body is overheating. It kicks in sweat production although the body in fact is still near its optimal performance temperature.

4 EARLIER ONSET OF COOLING

Even before the body overheats, it's cooled by sweat effectively and more quickly. The strain on physical systems is relieved.

REACTION:
Earlier cooling

RESULT:
Enhanced performance

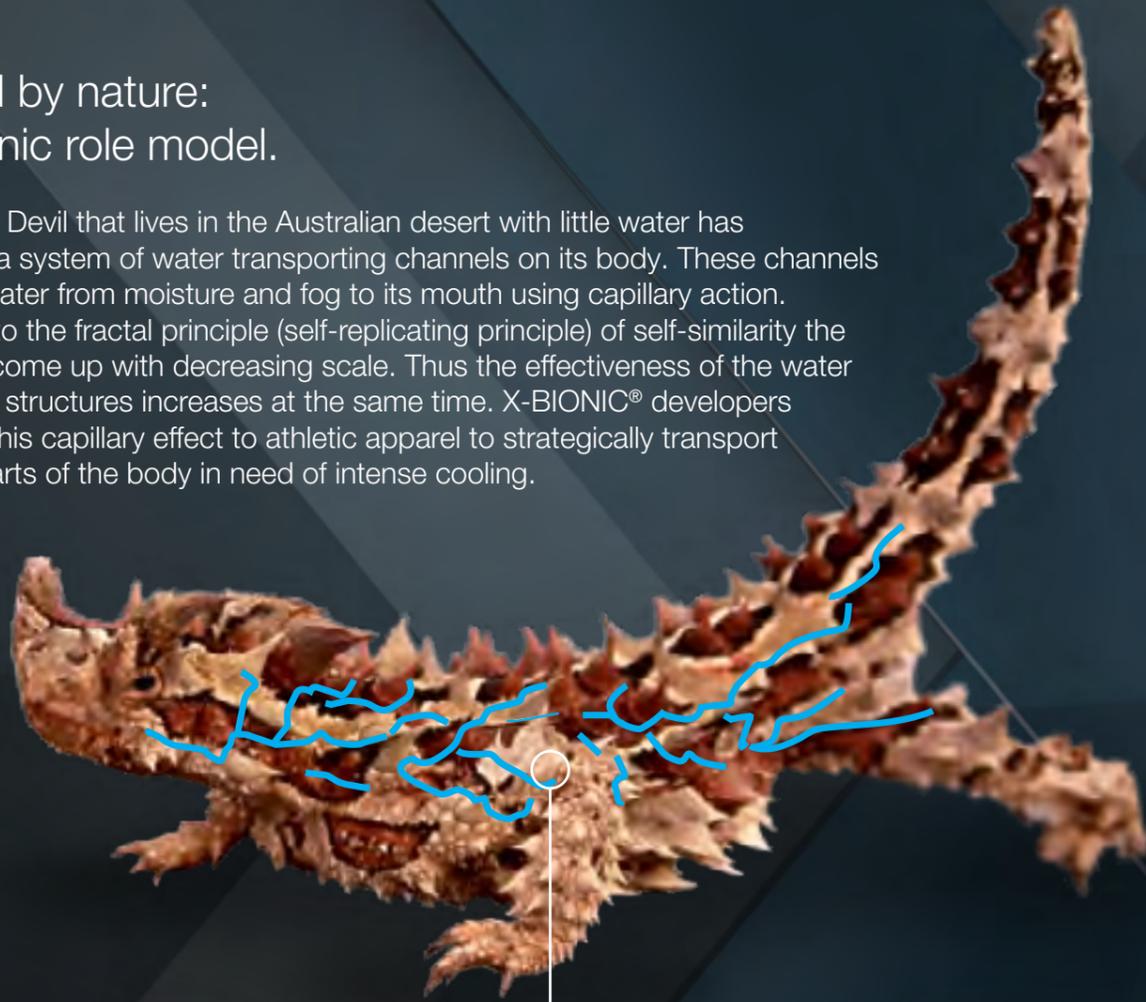


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THORNY DEVIL TECHNOLOGY

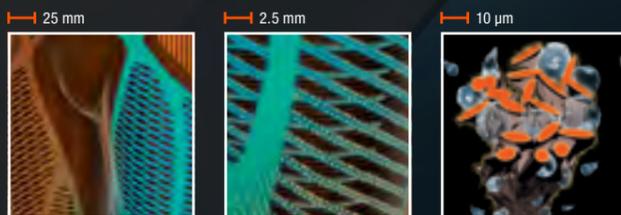
Inspired by nature:
The bionic role model.

The Thorny Devil that lives in the Australian desert with little water has developed a system of water transporting channels on its body. These channels transport water from moisture and fog to its mouth using capillary action. According to the fractal principle (self-replicating principle) of self-similarity the structures come up with decreasing scale. Thus the effectiveness of the water conducting structures increases at the same time. X-BIONIC® developers translated this capillary effect to athletic apparel to strategically transport sweat to parts of the body in need of intense cooling.



SKIN OF THE THORNY DEVIL
The honeycomb-like structure renders the surface extremely hydrophilic. The water is sucked into small inter scalar channels which transport the water by capillary forces.

*Philipp Comanns, Christian Effertz, Florian Hischen, Konrad Staudt, Wolfgang Böhme and Werner Baumgartner. 2011. "Moisture harvesting and water transport through specialized micro-structures on the integument of lizards." Beilstein J. Nanotechnol 2, 204-214.



SURFACE OF X-BIONIC® HYDROPORT YARN
Moisture-conducting HydroPort yarn imitates the fractal principle of the Thorny Devil using network of small channels.

1 SWEAT COLLECTOR

Sweat Collectors are placed where the body accumulates the most sweat. This is where sweat is soaked up like a sponge and moved gradually through the thickened structures of the HydroPort yarn to Sweat Transporters. With this network of transporting yarn, sweat is shuttled to the Sweat Distributor zone.

2 SWEAT TRANSPORTER

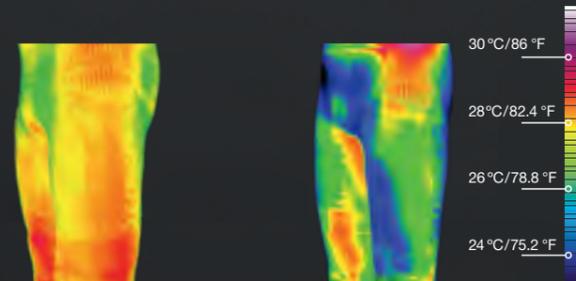
Like a network of tiny canals, the sweat-transporting HydroPort yarn wraps around the body. Sweat on the abdomen and back is continuously guided to the Sweat Distributors on the upper thighs. Sweat Transporters ensure that sweat can evaporate there, exactly where it can have the largest possible cooling effect on overheated muscles.

3 SWEAT DISTRIBUTOR WITH PARTIALKOMPRESSION®

The design of the Sweat Distributors takes its lead from the anatomy of the muscles. Its construction combines X-BIONIC® Partialkompression® and knit-in ridges that cool off muscles. Guided by Sweat Transporters, sweat is gathered over a broad area in the Sweat Distributors, which are at-the-ready as a cooling mechanism. If heat is produced, evaporation immediately counteracts it. Sweat Distributors provide additional cooling for heat-intensive muscle areas.

The scientific proof:

The Thorny Devil Technology guides sweat directly to heat-intensive muscle areas. There, it evaporates for an optimal cooling effect.



BEFORE: without the use of Thorny Devil Technology

AFTER: with Thorny Devil Technology the musculature is cooled more effectively and keeps performance longer.



COHESION-WRAP® TECHNOLOGY

The first technology that shapes up both your performance and your physique.



MEN'S CONNECTIVE TISSUE
Stabile webbing – higher stability, less risk for cellulite.



WOMEN'S CONNECTIVE TISSUE
Weak structure – less stability, higher risk for cellulite.

The COHESION-WRAP® Technology was developed especially to support women athletes. X-BIONIC® PARTIALKOMPRESSION® ensures optimal cooling of the skin with its unique surface structure. With it, blood can continue to circulate and sweat can effectively evaporate. The body saves energy, resulting in more power for athletic activity. In addition, the COHESION-WRAP® Technology targets sensitive areas of the female anatomy. The innovative X-BIONIC® COHESION-WRAP® Technology actively counteracts this effect. It places targeted pressure on the areas in your thighs, buttocks, hips and arms where connective tissues are weaker due to their structure and, thus, are inclined to form dimples and cellulite. This also decreases the build-up of lactic acid.

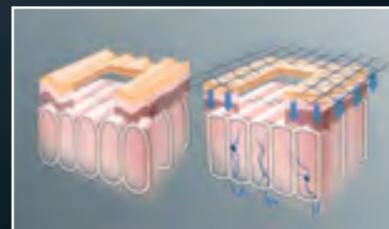
In addition, the one-of-a-kind X-BIONIC® PARTIALKOMPRESSION® with its unique surface structure ensures optimal cooling at the skin. Blood can circulate close to the surface, and sweat can evaporate effectively. The body saves energy, leaving more for your sport – Sweat is transformed into energy. The dermis of women is more elastic and weaker than that of men. Many adipose cells, which have elastic properties and take up increased acids, are found in subcutaneous tissue. Collagen fibres, which provide skin strength and elasticity, run parallel to each other in women, while in men the fibres form a type of stabile webbing in the skin. That's why growing fat cells in the thighs, buttocks, hips and arms can push between and through collagen fibres to cause a dimpling effect.

X-BIONIC® COHESION-WRAP® Technology targets the female anatomy. Its compression and special zoned structure mean less lactate can penetrate tissues.

COHESION-WRAP-TECHNOLOGY

Cohesion-Wrap-Technology with its Vicarious Connective Tissue supports and stabilises areas of the female body with weak connective tissue.

- Stabilises and supports connective tissue
- Less vibration
- Improved metabolism
- Decreased skin dimpling



• Zones with weak connective tissue on the female body

Vicarious Connective Tissue offers support to connective tissue. That provides from the outside what female connective tissue is lacking on the inside: stability. Its compression and special zoned structure mean less lactate can penetrate tissues. That can inhibit the buildup of dimpling.

NEURAL-RESPONSE-EFFECT

Triggers peak performance from your neurons. Sporting success demands great relationships. Especially between brain and muscle.

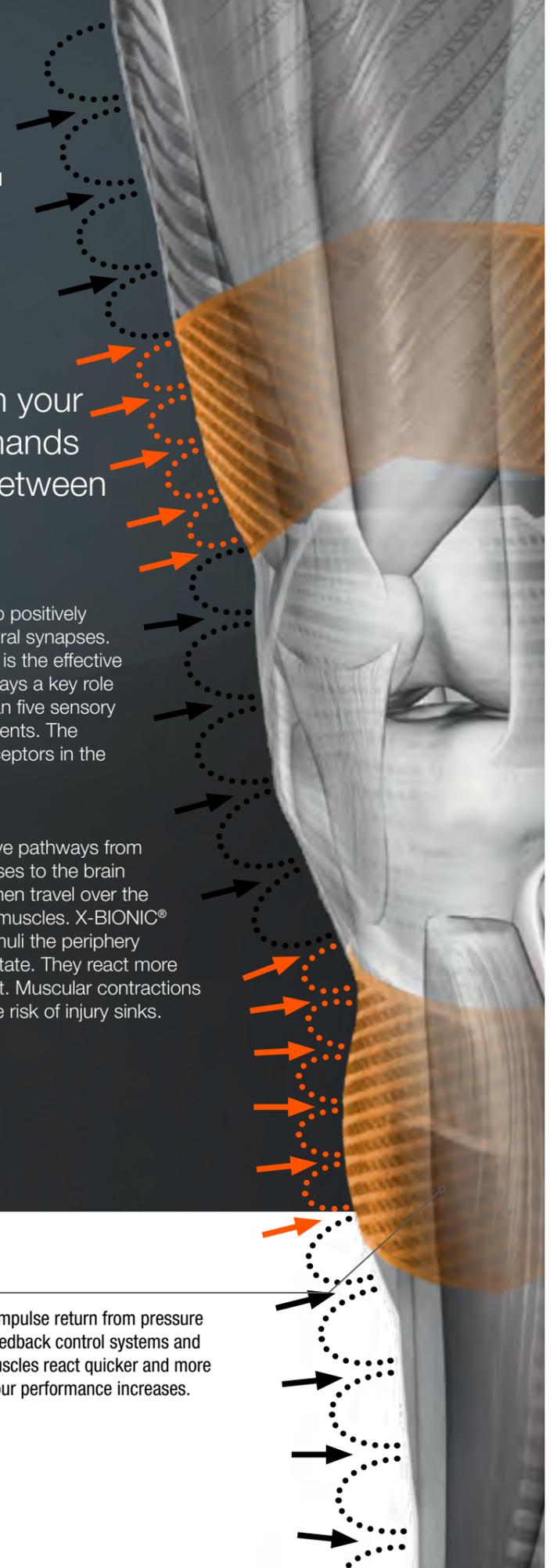
X-BIONIC® PARTIALKOMPRESSION® is in the position to positively influence your neuro-muscular system by stimulating neural synapses. It can also improve your sensory motor regulation, which is the effective interaction of afferent and efferent nerve impulses, and plays a key role in the reorganisation of muscular programming. More than five sensory motor feedback systems control all of the body's movements. The systems react to outside stimuli through mechanical receptors in the skin – stimuli such as that from the targeted placement of the X-BIONIC® PARTIALKOMPRESSION®.

Afferent nerve impulses, which run along continuous nerve pathways from the periphery to the central nervous system, direct impulses to the brain and the spine where they are processed. The impulses then travel over the efferent nerve pathways and motor neurons back to the muscles. X-BIONIC® Technology capitalises on this system. With constant stimuli the periphery receptors are simultaneously put in a kind of preloaded state. They react more quickly to subsequent stimuli the Neural-Response-Effect. Muscular contractions and reactions increase, coordination is improved, and the risk of injury sinks.

PRESSURE MAKES FOR PERFECT MOVEMENT.

Muscular stimulus, sensory transmission, signal processing, and impulse return from pressure makes for perfect movement: X-BIONIC® utilises sensory motor feedback control systems and achieves the desired neural response effect with compression. Muscles react quicker and more strongly to movement impulses transmitted from the brain, and your performance increases.

- Quicker reaction time
- Stronger muscle contractions
- Better coordination
- Minimised risk of injury
- Decreased fatigue



X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

1 THE TRICK TECHNOLOGY

Special knit structure along the spinal column stimulates the overheating of the body. As a result, the brain triggers sweat production long before overheating can occur. Early sweating permits more effective cooling that sustains energy reserves. Special knit structure along the spinal column stimulates the overheating of the body. As a result, the brain triggers sweat production long before overheating can occur. Early sweating permits more effective cooling that sustains energy reserves.

Patented in 24 countries: AT, BE, CH, DE, DK, ES, FI, FR, GB, IS, IT, LU, NL, PL, SE, SI, TR, AU, BR, CA, CN, IN, MX, RU

2 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

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4 AIRCOMPLEX-ZONE AT THE UPPER ABDOMEN

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

5 FLEXOR ARM CUFF

Asymmetrical arm cuff to avoid unpleasant sleeve movement.

6 EXPANSION FLEX ZONE AT THE SHOULDER JOINT

Flexibility of the Expansion Flex Zone and the stretch of the yarn enable unrestricted movement. In addition, the Stretch Ribs allow a problem-free running position in the shoulder area without pulling up the shirt. That guarantees all of the different technologies stay where they belong to optimally achieve their intended function.

7 STABILITY ZONE

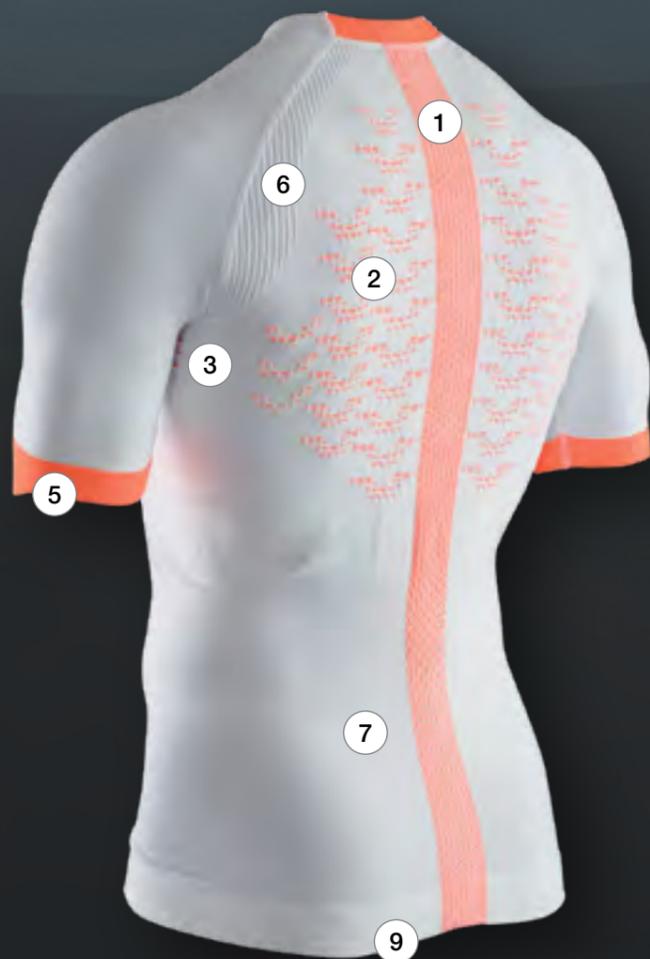
The Stability Zone keeps the shirt in the right place and prevents uncomfortable riding up during dynamic torso movement.

8 AKTIV-BUND

Keeps the shirt from slipping up or constricting.

9 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

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THE TRICK® 4.0

+ 100% SWISS ENGINEERED

MEN RUN SHIRT SH SL

TR-RT00S19M

COMPOSITION
91% Polyamide
6% Polypropylen
3% Elastane



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5 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

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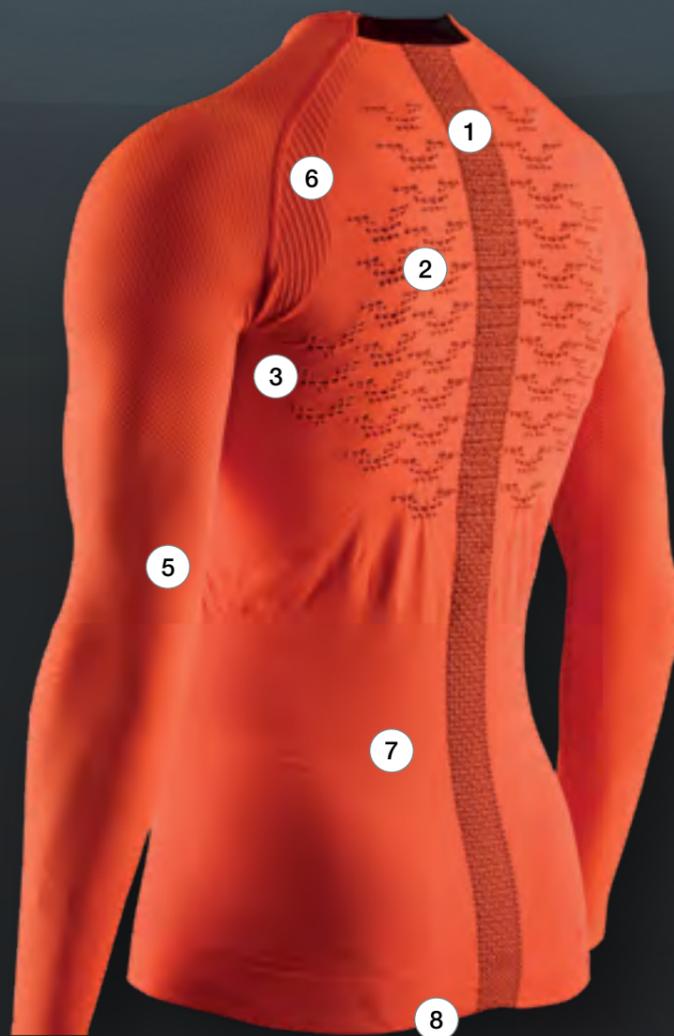
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THORNY DEVIL TECHNOLOGY

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Where the body accumulates the most sweat, Sweat Collectors soak up the sweat and move it gradually through the thickened structures of the HydroPort yarn to Sweat Transporters.

3 SWEAT TRANSPORTER
Wrapping around the body, this system continuously transports excess sweat via channels to the zones where it can have the largest possible cooling effect on overheated muscles.

4 SWEAT DISTRIBUTOR WITH PARTIALKOMPRESSION®
The combination of X-BIONIC® Partialkompression® and knitted in ridges collects excess sweat and allows it to evaporate over a broad area to provide extra cooling for heat-intensive muscle areas.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

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7 IDEO-WAISTBAND
The ergonomically shaped waistband provides a better fit during movement.

8 INNERLAP AIRCONDITIONING ZONE®
The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

9 ISO-PAD
Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

10 AKTIV-BUND
The highly elastic Aktiv-Bund provides a secure fit and supports without constricting or impeding movement.

RETINA®
Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

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IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

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MEN RUN SHORTS

TR-R500S19M

COMPOSITION
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6% Elastane
6% Polypropylen



MEN

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10 NEURAL-RESPONSE-BANDAGE
The Neural-Response-Bandage exerts targeted pressure on the muscle attachment, prepares the receptors for action and improves the work of the muscles.

11 EXPANSIONKNEE®
Protects from the cold, even when the knee is bent.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

12 AIRCONDITIONINGSPOT
The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

13 AKTIV-BUND
The highly elastic Aktiv-Bund provides a secure fit and supports without constricting or impeding movement.

RETINA®
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INTELLIYARNS®
IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®
High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY
X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



THE TRICK® 4.0
+ 100% SWISS ENGINEERED

MEN RUN PANTS

TR-RP05W19M

COMPOSITION
80% Polyamide
12% Elastane
8% Polypropylen



MEN

X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

1 THE TRICK TECHNOLOGY

Special knit structure along the spinal column stimulates the overheating of the body. As a result, the brain triggers sweat production long before overheating can occur. Early sweating permits more effective cooling that sustains energy reserves. Special knit structure along the spinal column stimulates the overheating of the body. As a result, the brain triggers sweat production long before overheating can occur. Early sweating permits more effective cooling that sustains energy reserves.

Patented in 24 countries: AT, BE, CH, DE, DK, ES, FI, FR, GB, IS, IT, LU, NL, PL, SE, SI, TR, AU, BR, CA, CN, IN, MX, RU

2 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

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4 AIRCOMPLEX-ZONE AT THE UPPER ABDOMEN

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

5 FLEXOR ARM CUFF

Asymmetrical arm cuff to avoid unpleasant sleeve movement.

6 EXPANSION FLEX ZONE AT THE SHOULDER JOINT

Flexibility of the Expansion Flex Zone and the stretch of the yarn enable unrestricted movement. In addition, the Stretch Ribs allow a problem-free running position in the shoulder area without pulling up the shirt. That guarantees all of the different technologies stay where they belong to optimally achieve their intended function.

7 STABILITY ZONE

The Stability Zone keeps the shirt in the right place and prevents uncomfortable riding up during dynamic torso movement.

8 AKTIV-BUND

Keeps the shirt from slipping up or constricting.

9 IDEO-WAISTBAND

deal designed, ergonomically optimised. The ergonomically optimised waistband with higher cut in the back keeps the garment in place even during constant movements.



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

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THE TRICK® 4.0

+ 100% SWISS ENGINEERED

WOMEN RUN SHIRT SH SL

TR-RT00S19W

COMPOSITION
91% Polyamide
6% Polypropylen
3% Elastane



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

INVENT®

FENNEC®

TENTACLE®

ENERGIZER®

WOMEN

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5 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

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9 AKTIV-BUND

Keeps the shirt from slipping up or constricting.

10 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

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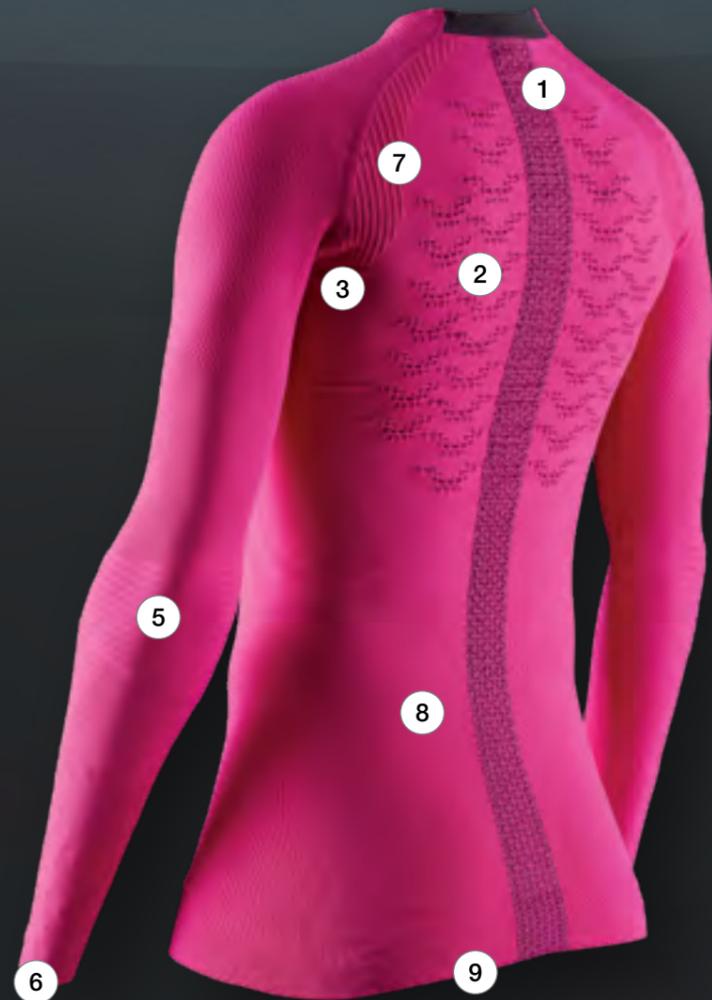
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WOMEN RUN SHIRT LG SL

TR-RT06W19W

COMPOSITION
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6% Polypropylen
3% Elastane



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THORNY DEVIL TECHNOLOGY

2 SWEAT COLLECTOR
Where the body accumulates the most sweat, Sweat Collectors soak up the sweat and move it gradually through the thickened structures of the HydroPort yarn to Sweat Transporters.

3 SWEAT TRANSPORTER
Wrapping around the body, this system continuously transports excess sweat via channels to the zones where it can have the largest possible cooling effect on overheated muscles.

4 SWEAT DISTRIBUTOR WITH PARTIALKOMPRESSION®
The combination of X-BIONIC® Partialkompression® and knit-in ridges collects excess sweat and allows it to evaporate over a broad area to provide extra cooling for heat-intensive muscle areas.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

5 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY
According to tests and experiences, the precisely defined position on the chest and back offers more cooling power. The 3D Bionic Sphere® System with ThermoSyphon® Technology on the chest and back, stops the unpleasant dampness, the feeling of overheating, and the risk of chilling during rest and recovery. The cooling function only kicks in when your body begins to build up body heat and sweat.

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7 IDEO-WAISTBAND
Ideal designed, ergonomically optimised. The ergonomically optimised waistband with higher cut in the back keeps the garment in place even during constant movements.

8 INNERLAP AIRCONDITIONING ZONE®
The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZEROInsulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

9 ISO-PAD
Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads over the hipbones retain body heat that is necessary to guarantee interior organ functionality.

10 AKTIV-BUND
The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

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WOMEN RUN SHORTS

TR-R500S19W

COMPOSITION
88% Polyamide
6% Elastane
6% Polypropylen



X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

WOMEN

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9 NEURAL-RESPONSE-BANDAGE
The Neural-Response-Bandage exerts targeted pressure on the muscle attachment, prepares the receptors for action and improves the work of the muscles.

10 EXPANSIONKNEE®
Protects from the cold, even when the knee is bent.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

11 AIRCONDITIONINGSPOT
The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

12 AKTIV-BUND
The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

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WOMEN RUN PANTS

TR-RP05W19W

COMPOSITION
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12% Elastane
8% Polypropylen



WOMEN

X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

RUN SHIRT SH SL
 TR-RT00S19M

SIZES: XS S M L XL XXL



A005 TEAL BLUE/
KURKUMA ORANGE - C/O -
 W004 ARCTIC WHITE/
KURKUMA ORANGE - C/O -
 E054 OLIVE GREEN/
PHYTON YELLOW - C/O -
 R011 NAMIB RED/
DOLOMITE GREY - C/O -
 R015 NAMIB RED/
SUNSET ORANGE - EOL -

RUN SHIRT LG SL
 TR-RT06W19M

SIZES: XS S M L XL XXL



B002 OPAL BLACK/
ARCTIC WHITE - C/O -
 0012 TRICK ORANGE/
BLACK - C/O -

RUN SHORTS
 TR-R500S19M

SIZES: XS S M L XL XXL



A005 TEAL BLUE/
KURKUMA ORANGE - C/O -
 B002 OPAL BLACK/
ARCTIC WHITE - C/O -
 E054 OLIVE GREEN/
PHYTON YELLOW - C/O -
 R015 NAMIB RED/
SUNSET ORANGE - EOL -

NOTES

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RUN SHIRT SH SL
 TR-RT00S19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK/
ARCTIC WHITE - C/O -
 P013 TRICK PINK/
KURKUMA ORANGE - C/O -
 W005 ARCTIC WHITE/
NEON FLAMINGO - C/O -
 R014 NAMIB RED/
KURKUMA ORANGE - EOL -

RUN SHIRT LG SL
 TR-RT06W19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK/
ARCTIC WHITE - C/O -
 P076 TRICK PINK/
ANTHRACITE - C/O -

RUN SHORTS
 TR-R500S19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK/
ARCTIC WHITE - C/O -
 B007 OPAL BLACK/
NEON FLAMINGO - C/O -
 R005 DARK RUBY/
KURKUMA ORANGE - EOL -

NOTES

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 TWYCE®
 THE TRICK®
 EFFEKTOR®
 INVENT®
 FENNEC®
 TENTACLE®
 ENERGIZER®

EFFEKTOR® 4.0

+ 100% SWISS ENGINEERED

UNLEASH YOUR BEST COMPETITION PERFORMANCE

Designed for hot climates, EFFEKTOR® 4.0 has been proven to optimize muscle coordination, body temperature control, heart rate, performance duration, recovery time, lactation and nerve stimulation transmission.

EFFEKTOR® 4.0 is sophisticated hardware with patented technologies for maximum performance.

RUNNING

ENERGIZER® | TENTACLE® | FENNEC® | INVENT® | EFFEKTOR® | THE TRICK® | TWYCE® | X-BIONIC®

EFFECTS

+10% PERFORMANCE TIME	+3%
-7% LACTATE FORMATION	-1%
-50% HEAT GENERATION	-20%
+20% FASTER REGENERATION	+12%
-2,4 HEARTBEATS PER MINUTE	-0.4

Scientifi cally proven by CERISM Research Center for Bioengineering and Human Movement, University of Verona - Italy (2011).
 *Compared to predecessor model.
 All data are based on X-BIONIC®'s own experience.

-7%
 MINIMAL LACTATE FORMATION

Maximal blood lactate is reduced when wearing compression apparel, which can be tied to an improved venous return.

(-1%)

-2.4
 LOWEST HEART RATE

The stroke volume (SV) is increased when wearing X-BIONIC® Partialkompression®, and the subsequent reduction in heart rate results in a general increase of physical performance.

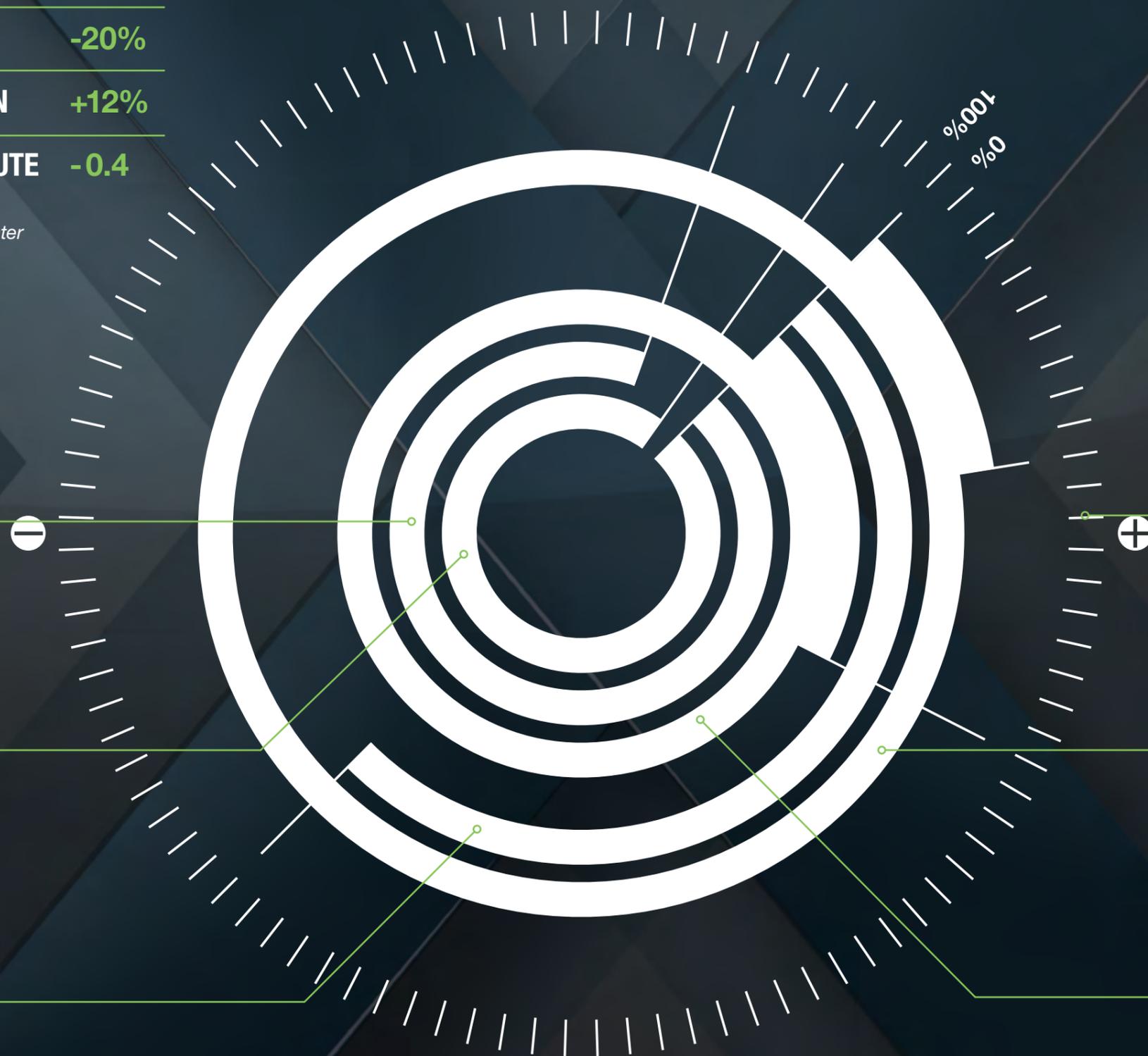
(-0.4*)

-50%
 REDUCED BUILDUP OF HEAT

The X-BIONIC® Partialkompression® applies targeted pressure on 1-mm wide ridges. Between them are compression-free zones without mechanically applied pressure, which could have a negative effect on blood circulation to the skin. This allows the blood to fully perform its cooling function.

(-20%)

EFFEKTOR TECHNOLOGY



100%
 MAXIMUM PRECISION

Asymmetrical compression provides for an increase in precision. Indispensable in sports like tennis, badminton, squash, table tennis or golf with one-sided stresses.

+10%
 LONGEST-EVER PERFORMANCE

The use of compression in sports positively affects performance ability. Training, competition and recovery – medical as well as physiologic studies show advantages of modern compression apparel.

(+3%)

+20%
 QUICKEST RECOVERY

Compression improves the flow of oxygen to the musculature. Result: quicker regeneration and fewer muscular cramps.

(+12%)

EFFECTS

PERFORMANCE

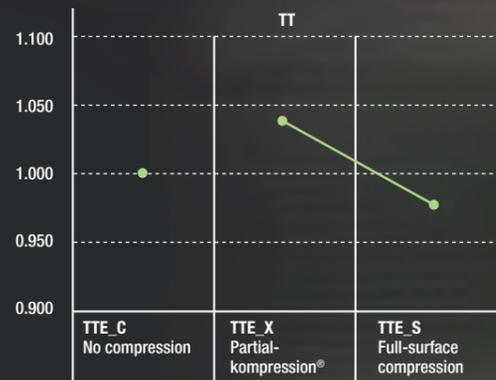
The air gets thinner at the front.
EXCEPT FOR YOURS.

10% HIGHER PERFORMANCE WITH X-BIONIC®
PARTIALKOMPRESSION® IN COMPARISON TO FULL SURFACE
COMPRESSION.

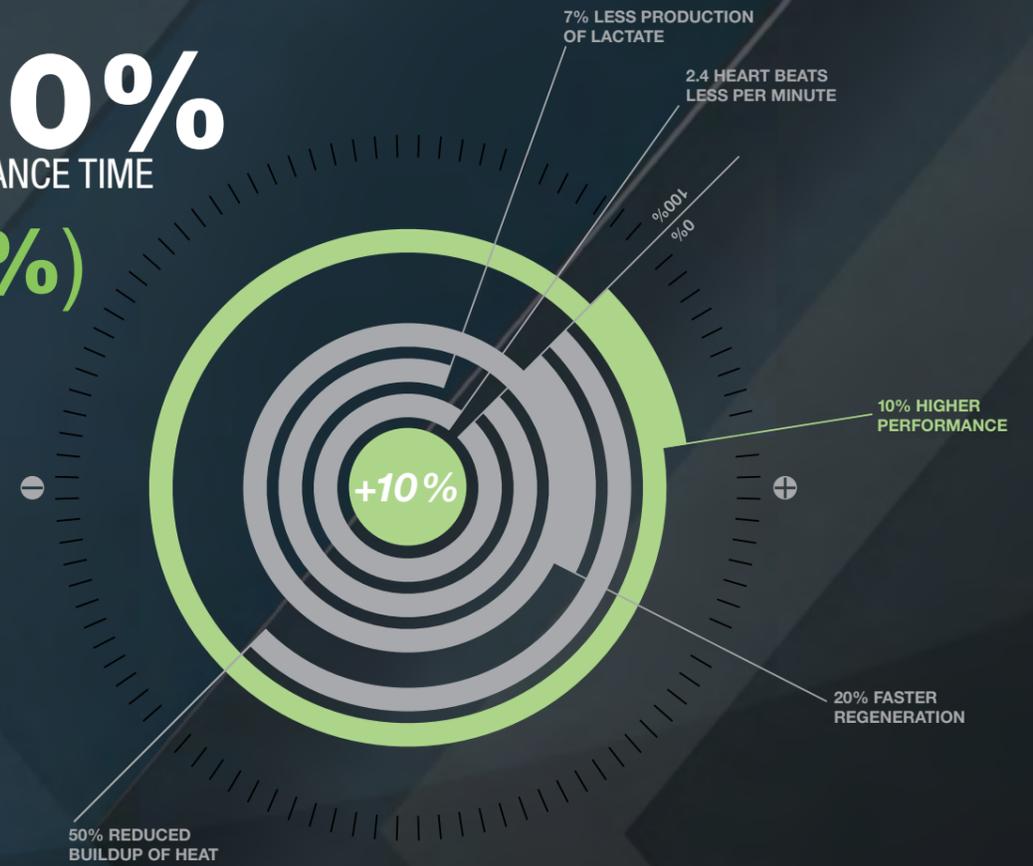
DURATION OF FATIGUE TESTS

Assessment of whether there is a difference in performance for different types of compression clothing. The average duration of the fatigue tests (TTE) ranged from 127 seconds for test S (full-surface compression) to 139 seconds for test X (X-BIONIC® Partialkompression®) with test C (comparison clothing) lasting on average 133 seconds. This means there was an increase in test duration of 4% for clothing from X-BIONIC® compared to the shorter test duration for clothing with full-surface compression. The comparison between the two compression garments showed a performance difference of approx. 10% in favour of X-BIONIC®.

TT	TTE_C (Sec)	TTE_X (Sec)	TTE_S (Sec)
	241.0	236.0	231.0
	64.0	73.0	90.0
	157.0	161.0	111.0
	131.0	122.0	132.0
	50.0	60.0	38.0
	93.0		92.0
	196.0	186.0	197.0
Mean	133.1	139.7	127.3
st. dev.	70.1	67.8	66.5



+10%
PERFORMANCE TIME
(+3%)

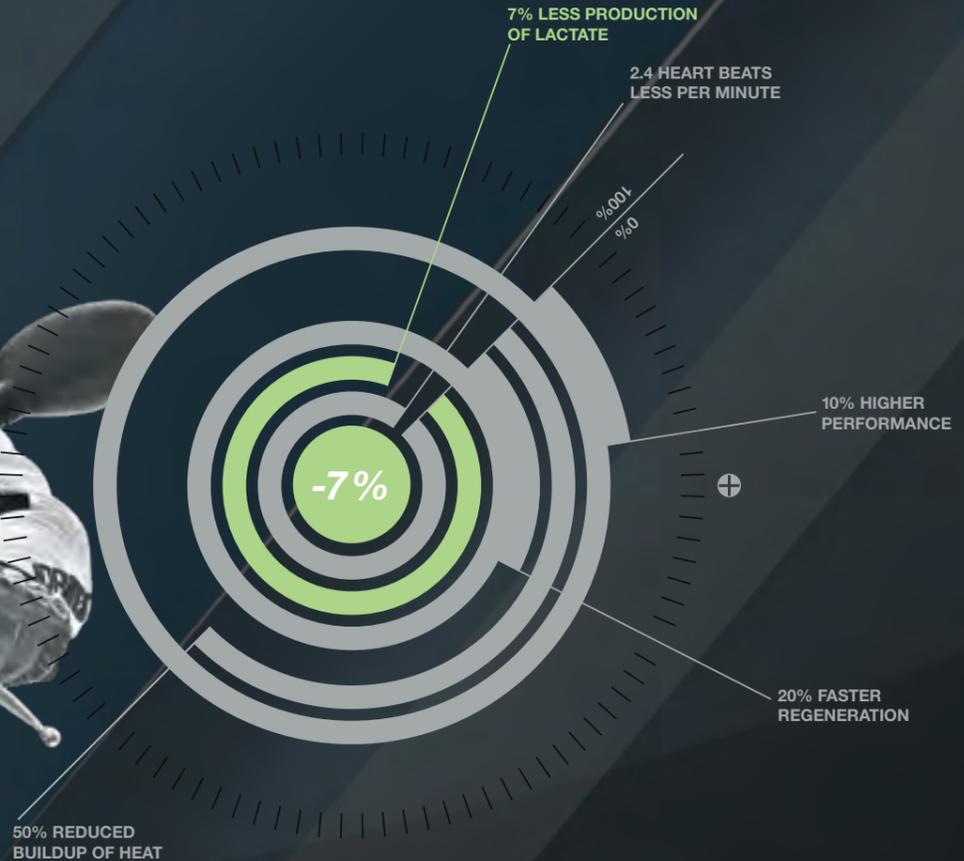


EFFECTS LACTATE

Two ways to reduce lactate:
One, don't move...
Two, Partialkompression®.

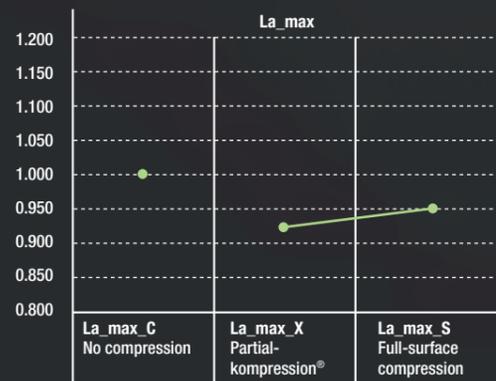
MINIMAL LACTATE BUILDUP
7% LESS PRODUCTION OF LACTATE WITH X-BIONIC®
PARTIALKOMPRESSION® IN COMPARISON TO FULL SURFACE
COMPRESSION.

LACTATE CONCENTRATION
Maximum blood lactate levels are lower when compression clothing is worn, thanks to improved venous return. The breakdown of lactates is improved by wearing compression clothing. Lactate is the salt of lactic acid, which is formed during extended periods of exertion. This leads to muscle fatigue, also known as "fat legs."



-7%
MINIMAL LACTATE BUILDUP
(-1%)

La_max	La_max_C (mM)	La_max_X (mM)	La_max_S (mM)
	14.8	12.9	15.2
	7.8	10.3	7.3
	10.2	11.2	8.1
	11.8	7.7	12.1
	6.8	6.1	5.8
	10.5	7.7	9.9
	9.7	8.1	10.3
Mean	10.2	9.1	9.8
st. dev.	2.6	2.4	3.1



EFFECTS

TEMPERATURE

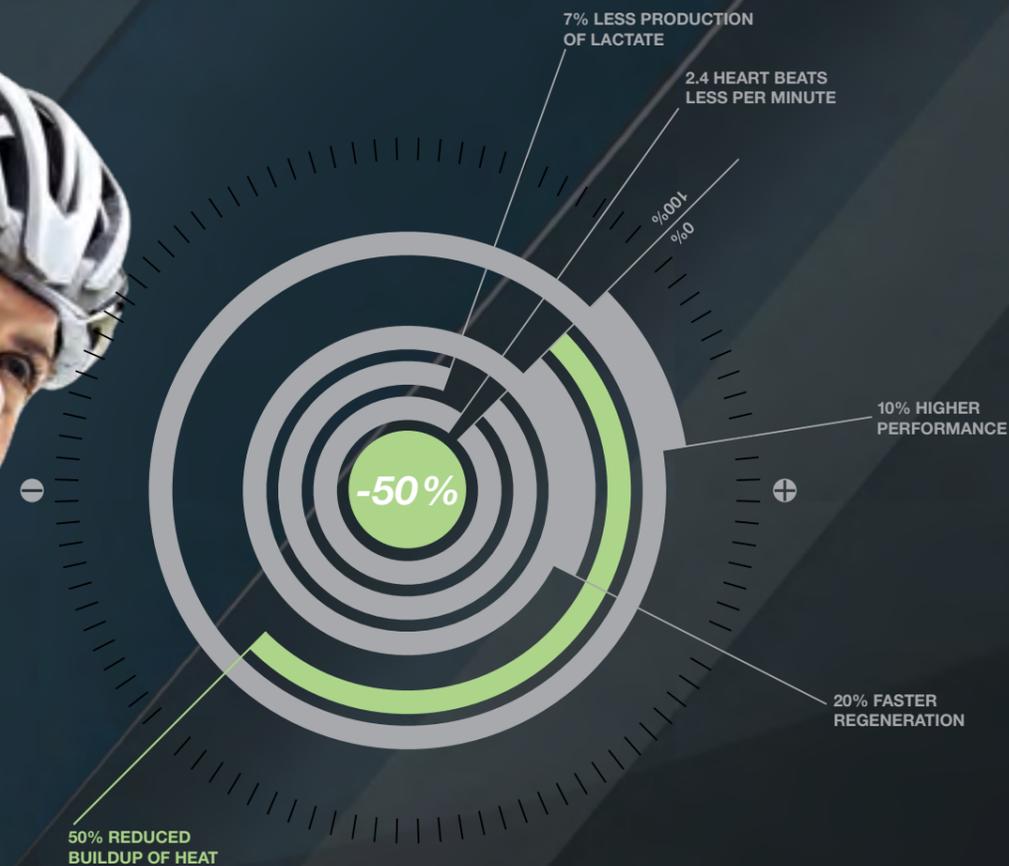
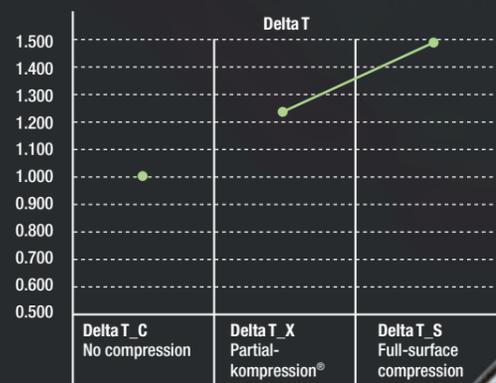
A body will lose warmth until it reaches the ambient temperature. Normally.

X-BIONIC® PARTIALKOMPRESSION® PRODUCES HALF THE HIGH BODY HEAT IN COMPARISON TO FULL SURFACE COMPRESSION.

CORE BODY TEMPERATURE

During physical activity the change in body temperature was measured both in athletes wearing Effektor as well as those in functional apparel with all-over surface compression. Result: With Effektor® with Partialkompression® body temperature only changed insignificantly (approximately 0.15 degrees Celsius), while those with apparel with all-over surface compression was significantly more (about double or approximately 0.38 degrees Celsius).

Delta T	Delta T_C (°C)	Delta T_X (°C)	Delta T_S (°C)
	0.77	1.33	1.10
	0.52	0.67	1.08
	1.32	1.08	1.21
	1.14	1.59	1.73
	1.04	0.83	
	1.05	1.45	
		0.91	1.64
Mean	0.97	1.12	1.35
st. dev.	0.28	0.34	0.31



-50%
REDUCED BUILD UP OF HEAT
(-20%)



X-BIONIC®
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INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

EFFECTS
RECOVERY

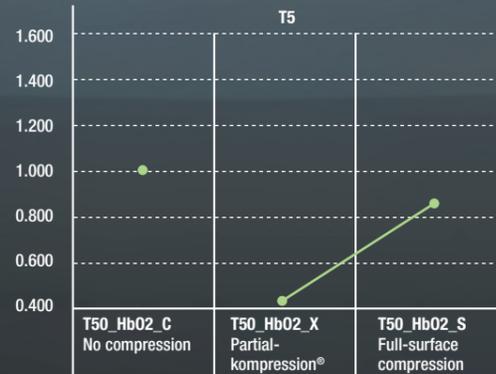
The laws of cell regeneration will need to be rewritten.

20% FASTER RECOVERY WITH X-BIONIC® PARTIALKOMPRESSION® IN COMPARISM TO FULL SURFACE COMPRESSION.

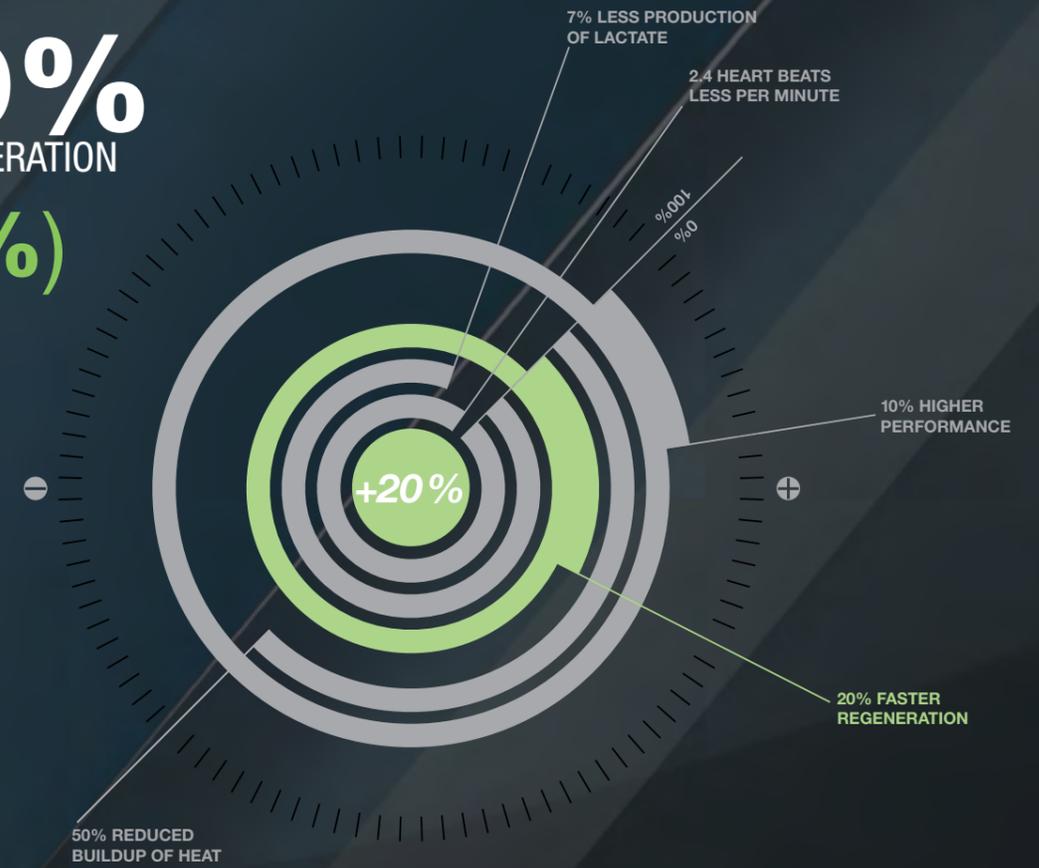
OXYGEN LEVEL RECOVERY

The supply of oxygen to the muscles is crucial for an athlete's performance. The muscles require oxygen in order to produce energy. Oxygen is delivered to the muscle cells through the capillaries - the smallest blood vessels. In the test, the muscles were artificially deprived of oxygen and the subsequent rate of recovery was measured. This was faster with X-BIONIC® Partialkompression® than with full-surface compression – with a difference of more than 20 percent.

T50	T50_Hb02_C (Sec)	T50_Hb02_X (Sec)	T50_Hb02_S (Sec)
	6.0	1.0	4.0
		3.0	
		2.0	
	3.0		2.0
	3.0		3.0
	3.0	2.0	2.0
	3.0		3.0
	2.0		2.0
Mean	3.4	2.0	2.7
st. dev.	1.5	0.8	0.8



+20%
FASTER REGENERATION
(+12%)



X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

EFFECTS

HEART RATE

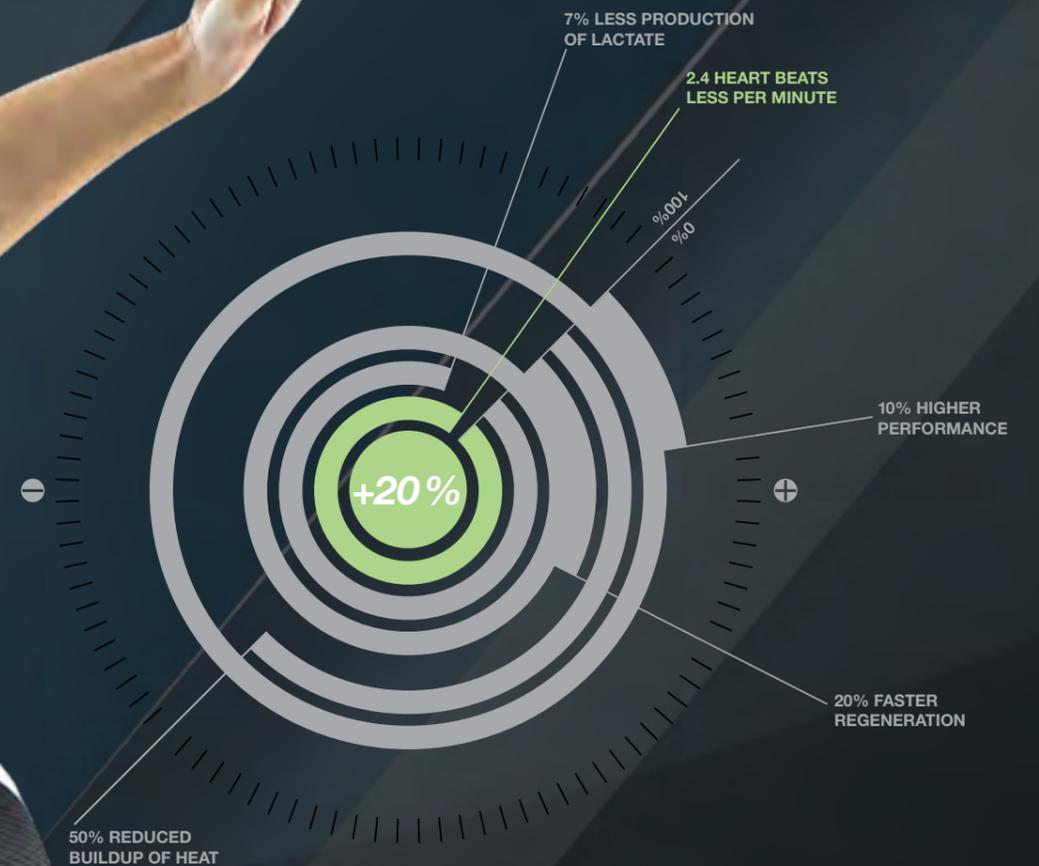
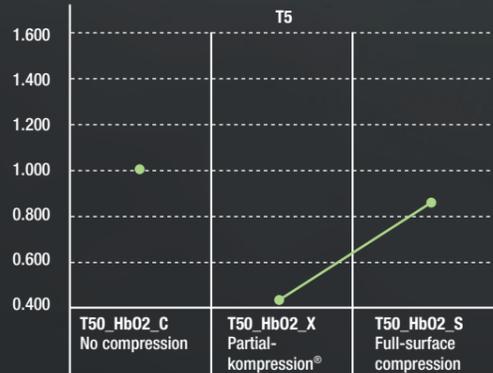
Effektor® slows you down only in one point: Heart rate.

2.4 HEART BEATS PER MINUTE LESS USING X-BIONIC® PARTIALKOMPRESSION® IN COMPARISON TO FULL SURFACE COMPRESSION.

CARDIOVASCULAR INDICES

The results of the tests with compression clothing show reduced oxygen consumption in a steady-state and improved metabolic efficiency for the same effort expenditure. This may be the result of increased venous return flow due to the effect of the compression garments. The hypothesis of increased venous return flow is supported by the increased stroke volume (SV) (which is larger with X-BIONIC® Partialkompression®) and the consequent reduction in heart rate (HR) (this is especially the case for clothing with X-BIONIC® Partialkompression® rather than full-surface compression).

T50	T50_Hb02_C (Sec)	T50_Hb02_X (Sec)	T50_Hb02_S (Sec)
	6.0	1.0	4.0
		3.0	
		2.0	2.0
	3.0		3.0
	3.0	2.0	2.0
	3.0		3.0
	2.0		2.0
Mean	3.4	2.0	2.7
st. dev.	1.5	0.8	0.8



-2.4
HEART BEATS PER MINUTE
(-0.4)

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EFFECTS

PRECISION

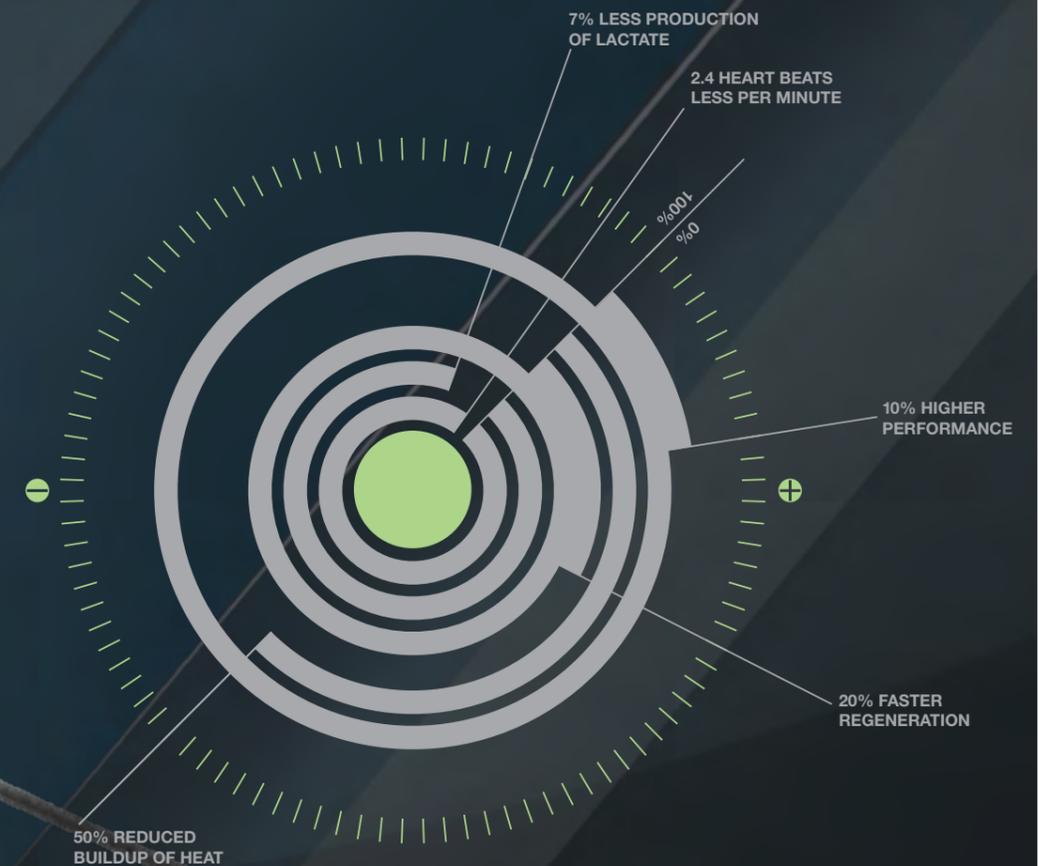
Precise balance in spite of unbalanced activities.

LOWEST HEART RATE
2.4 HEART BEATS
PER MINUTE LESS
USING X-BIONIC®

PARTIALKOMPRESSION® IN COMPARISON TO
FULL SURFACE COMPRESSION.

CARDIOVASCULAR INDICES

The results of the tests with compression clothing show reduced oxygen consumption in a steady-state and improved metabolic efficiency for the same effort expenditure. This may be the result of increased venous return flow due to the effect of the compression garments. The hypothesis of increased venous return flow is supported by the increased stroke volume (SV) (which is larger with X-BIONIC® Partialkompression®) and the consequent reduction in heart rate (HR) (this is especially the case for clothing with X-BIONIC® Partialkompression® rather than full-surface compression).



100% MAXIMUM PRECISION

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TWYCE®

THE TRICK®

EFFEKTOR®

INVENT®

FENNEC®

TENTACLE®

ENERGIZER®

COHESION-WRAP® TECHNOLOGY

The first technology that shapes up both your performance and your physique.



MEN'S CONNECTIVE TISSUE
Stabile webbing – higher stability, less risk for cellulite.



WOMEN'S CONNECTIVE TISSUE
Weak structure – less stability, higher risk for cellulite.

The COHESION-WRAP® Technology was developed especially to support women athletes. X-BIONIC® PARTIALKOMPRESSION® ensures optimal cooling of the skin with its unique surface structure. With it, blood can continue to circulate and sweat can effectively evaporate. The body saves energy, resulting in more power for athletic activity. In addition, the COHESION-WRAP® Technology targets sensitive areas of the female anatomy. The innovative X-BIONIC® COHESION-WRAP® Technology actively counteracts this effect. It places targeted pressure on the areas in your thighs, buttocks, hips and arms where connective tissues are weaker due to their structure and, thus, are inclined to form dimples and cellulite. This also decreases the build-up of lactic acid.

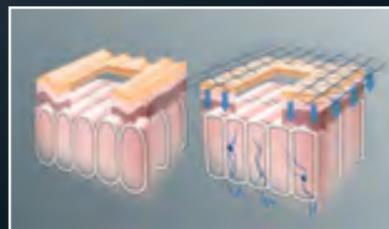
In addition, the one-of-a-kind X-BIONIC® PARTIALKOMPRESSION® with its unique surface structure ensures optimal cooling at the skin. Blood can circulate close to the surface, and sweat can evaporate effectively. The body saves energy, leaving more for your sport – Sweat is transformed into energy. The dermis of women is more elastic and weaker than that of men. Many adipose cells, which have elastic properties and take up increased acids, are found in subcutaneous tissue. Collagen fibres, which provide skin strength and elasticity, run parallel to each other in women, while in men the fibres form a type of stabile webbing in the skin. That's why growing fat cells in the thighs, buttocks, hips and arms can push between and through collagen fibres to cause a dimpling effect.

X-BIONIC® COHESION-WRAP® Technology targets the female anatomy. Its compression and special zoned structure mean less lactate can penetrate tissues.

COHESION-WRAP-TECHNOLOGY

Cohesion-Wrap-Technology with its Vicarious Connective Tissue supports and stabilises areas of the female body with weak connective tissue.

- Stabilises and supports connective tissue
- Less vibration
- Improved metabolism
- Decreased skin dimpling



• Zones with weak connective tissue on the female body

Vicarious Connective Tissue offers support to connective tissue. That provides from the outside what female connective tissue is lacking on the inside: stability. Its compression and special zoned structure mean less lactate can penetrate tissues. That can inhibit the buildup of dimpling.

NEURAL-RESPONSE-EFFECT

Triggers peak performance from your neurons. Sporting success demands great relationships. Especially between brain and muscle.

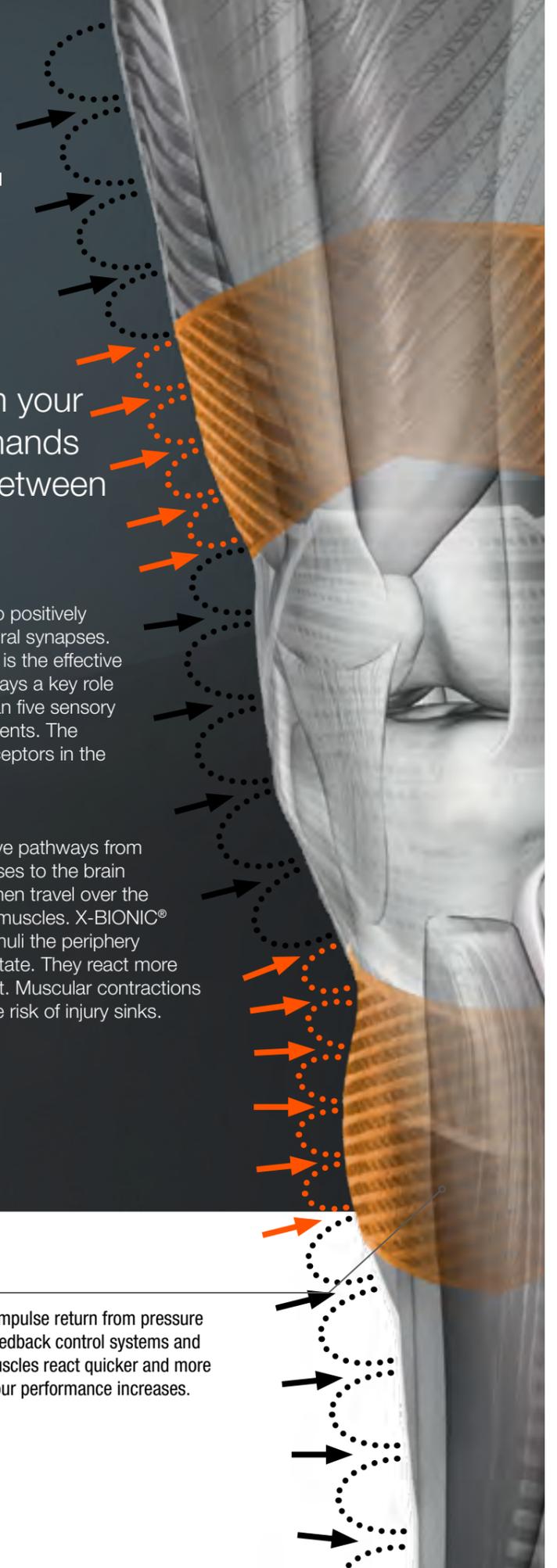
X-BIONIC® PARTIALKOMPRESSION® is in the position to positively influence your neuro-muscular system by stimulating neural synapses. It can also improve your sensory motor regulation, which is the effective interaction of afferent and efferent nerve impulses, and plays a key role in the reorganisation of muscular programming. More than five sensory motor feedback systems control all of the body's movements. The systems react to outside stimuli through mechanical receptors in the skin – stimuli such as that from the targeted placement of the X-BIONIC® PARTIALKOMPRESSION®.

Afferent nerve impulses, which run along continuous nerve pathways from the periphery to the central nervous system, direct impulses to the brain and the spine where they are processed. The impulses then travel over the efferent nerve pathways and motor neurons back to the muscles. X-BIONIC® Technology capitalises on this system. With constant stimuli the periphery receptors are simultaneously put in a kind of preloaded state. They react more quickly to subsequent stimuli the Neural-Response-Effect. Muscular contractions and reactions increase, coordination is improved, and the risk of injury sinks.

PRESSURE MAKES FOR PERFECT MOVEMENT.

Muscular stimulus, sensory transmission, signal processing, and impulse return from pressure makes for perfect movement: X-BIONIC® utilises sensory motor feedback control systems and achieves the desired neural response effect with compression. Muscles react quicker and more strongly to movement impulses transmitted from the brain, and your performance increases.

- Quicker reaction time
- Stronger muscle contractions
- Better coordination
- Minimised risk of injury
- Decreased fatigue



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NEURAL-RESPONSE-EFFECT

X-BIONIC® 4.0 Partialkompression® puts peripheral nerve cells in a constant state of readiness; optimises the exchange of neural impulses between muscles and brain; increases muscle reactions, contractions and coordination; and decreases the risk of injury and exhaustion.

1 X-BIONIC® 4.0 PARTIALKOMPRESSION®
A new benchmark in compression technology. X-BIONIC® partialkompression® utilizes the advantages of compression without neglecting cooling.
Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

2 HEAT-TRANSFER-ZONE
The extremely fine mesh between the compression ridges allows heat to be optimally dissipated.

3 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

4 SWEAT TRAPS®
Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.
Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

5 SWEAT TRAPS® AT THE TAILBONE
The Sweat Traps® at the tailbone are targeted specifically at catching sweat flowing toward the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

6 ISO-SHOULDER
Protects the shoulder region from wind and cold.

7 AKTIV-BUND
Keeps the shirt from slipping up or constricting.

8 IDEO-WAISTBAND
The ergonomically shaped waistband provides a better fit during movement.

RETINA®
Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®
IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®
High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY
X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



EFFEKTOR® 4.0

+ 100% SWISS ENGINEERED

MEN RUN SHIRT SH SL

EF-RT00S19M

COMPOSITION
90% Polyamide
7% Elastane
3% Polypropylen

X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

INVENT®

FENNEC®

TENTACLE®

ENERGIZER®

MEN

NEURAL-RESPONSE-EFFECT

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5 ISO-PAD
Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

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Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

7 EXPANSION RIBS®
The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

8 SWEAT TRAPS® AT THE TAILBONE
The Sweat Traps® at the tailbone are targeted specifically at catching sweat flowing toward the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

9 ISO-SHOULDER
Protects the shoulder region from wind and cold.

10 AKTIV-BUND
Keeps the shirt from slipping up or constricting.

11 IDEO-WAISTBAND
The ergonomically shaped waistband provides a better fit during movement.

12 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY AT THE TAILBONE

Ensures optimum climate balance: cools you when you are perspiring and warms you when you are feeling cold. Just like the body requires.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

RETINA®
Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®
IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

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EFFEKTOR® 4.0

+ 100% SWISS ENGINEERED

MEN RUN SHIRT LG SL

EF-RT06W19M

COMPOSITION
90% Polyamide
7% Elastane
3% Polypropylen



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

INVENT®

FENNEC®

TENTACLE®

ENERGIZER®

MEN

NEURAL-RESPONSE-EFFECT

X-BIONIC® 4.0 Partialkompression® puts peripheral nerve cells in a constant state of readiness; optimises the exchange of neural impulses between muscles and brain; increases muscle reactions, contractions and coordination; and decreases the risk of injury and exhaustion.

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A new benchmark in compression technology. X-BIONIC® partialkompression® utilizes the advantages of compression without neglecting cooling.
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- 2 HEAT-TRANSFER-ZONE**
The extremely fine mesh between the compression ridges allows heat to be optimally dissipated.
- 3 NEURAL-RESPONSE-BANDAGE**
The Neural-Response-Bandage exerts targeted pressure on the muscle attachment, prepares the re-ceptors for action and improves the work of the muscles.
- 4 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY**
The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin with the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.
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- 5 ISO-PAD**
Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.
- 6 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY**
A high-tech knit technology that ensures optimal support and comfortable temperature regulation. Varying ribbing and surface construction ensures support, plus transports moisture as well as warmth.
Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR
- 7 INTERCOOLER**
This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.
- 8 INNERLAP AIRCONDITIONING ZONE**
The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.
- 9 SMART PHONE POCKET**
Practical pocket for small items storage.
- 10 AKTIV-BUND**
The highly elastic Aktiv-Bund provides a secure fit and supports without constricting or impeding movement.
- 11 IDEO-WAISTBAND**
The ergonomically shaped waistband provides a better fit during movement.

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EFFEKTOR® 4.0

+ 100% SWISS ENGINEERED

MEN RUN SHORTS

EF-R500S19M

COMPOSITION
85% Polyamide
10% Elastane
5% Polypropylen



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- EXPANSIONKNEE**
Protects from the cold, even when the knee is bent.
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- AIRCONDITIONINGSPOT**
The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.
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MEN RUN PANTS

EF-RP05W19M

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MEN

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- Decreased skin dimpling

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XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®
High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY
X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



EFFEKTOR® 4.0

+ 100% SWISS ENGINEERED

WOMEN RUN SHIRT SH SL

EF-RT00S19W

COMPOSITION
90% Polyamide
7% Elastane
3% Polypropylen



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

INVENT®

FENNEC®

TENTACLE®

ENERGIZER®

WOMEN

NEURAL-RESPONSE-EFFECT

X-BIONIC® 4.0 Partialkompression® puts peripheral nerve cells in a constant state of readiness; optimises the exchange of neural impulses between muscles and brain; increases muscle reactions, contractions and coordination; and decreases the risk of injury and exhaustion.

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A new benchmark in compression technology. X-BIONIC® partialkompression® utilizes the advantages of compression without neglecting cooling.
Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA
- HEAT-TRANSFER-ZONE**
The extremely fine mesh between the compression ridges allows heat to be optimally dissipated.
- NEURAL-RESPONSE-BANDAGE**
The Neural-Response-Bandage exerts targeted pressure on the muscle attachment, prepares the re-ceptors for action and improves the work of the muscles.
- 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY**
The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.
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Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.
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- COHESION WRAP TECHNOLOGY**
Cohesion Wrap with its vicarious connective tissue supports and stabilises areas of the female body with weak connective tissue.
 - Stabilises and supports connective tissue
 - Improved metabolism
 - Supports lymphatic flow
 - Decreased skin dimpling
- INNERLAP AIRCONDITIONING ZONE**
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Practical pocket for small items storage.
- AKTIV-BUND**
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- IDEO-WAISTBAND**
The ergonomically shaped waistband provides a better fit during movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

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WOMEN RUN SHORTS

EF-R500S19W

COMPOSITION
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10% Elastane
5% Polypropylen



WOMEN

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EFFEKTOR®
INVENT®
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TENTACLE®
ENERGIZER®

RUNNING SHIRT Short Sleeves
 EF-RT00S19M

SIZES: XS S M L XL XXL



A003 TEAL BLUE/DOLOMITE GREY - C/O -
 B002 OPAL BLACK/ARCTIC WHITE - C/O -
 E031 EFFEKTOR GREEN/ARCTIC WHITE - C/O -
 0007 SUNSET ORANGE/PEARL GREY - C/O -
 G013 DOLOMITE GREY/SUNSET ORANGE - EOL -

RUNNING SHIRT Long Sleeves
 EF-RT06W19M

SIZES: XS S M L XL XXL



E030 EFFEKTOR GREEN/ANTHRACITE - C/O -

RUNNING PANTS
 EF-RP05W19M

SIZES: XS S M L XL XXL



B011 OPAL BLACK/EFFEKTOR GREEN - C/O -

RUNNING SHORTS
 EF-R500S19M

SIZES: XS S M L XL XXL



B002 OPAL BLACK/ARCTIC WHITE - C/O -
 B004 BLACK/ACID GREEN - C/O -
 B005 BLACK/TEAL BLUE - C/O -
 B006 OPAL BLACK/SUNSET ORANGE - EOL -

NOTES

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RUNNING SHIRT Short Sleeves
 EF-RT00S19W

SIZES: XS S M L XL XXL



A031 EFFEKTOR TURQUOISE/ARCTIC WHITE - C/O -
 B002 OPAL BLACK/ARCTIC WHITE - C/O -
 P004 NEON FLAMINGO/NAMID RED/ARCTIC WHITE - C/O -
 0004 SUNSET ORANGE/NAMID RED - EOL -

RUNNING SHORTS
 EF-R500S19W

SIZES: XS S M L XL XXL



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 B002 OPAL BLACK/ARCTIC WHITE - C/O -
 P002 NEON FLAMINGO/ARCTIC WHITE - C/O -
 R013 NAMIB RED/NEON FLAMINGO - EOL -

NOTES

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EFFEKTOR® 4.0

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UNLEASH YOUR BEST COMPETITION PERFORMANCE

Designed for hot climates, EFFEKTOR® 4.0 has been proven to optimize muscle coordination, body temperature control, heart rate, performance duration, recovery time, lactation and nerve stimulation transmission.

EFFEKTOR® 4.0 is sophisticated hardware with patented technologies for maximum performance.

TRAIL RUNNING

100% RESEARCH, DEVELOPMENT, DESIGN + COMMUNICATION DONE IN SWITZERLAND

ENERGIZER® | TENTACLE® | FENNEC® | INVENT® | EFFEKTOR® | THE TRICK® | TWYCE® | X-BIONIC®

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Protects the shoulder region from wind and cold.
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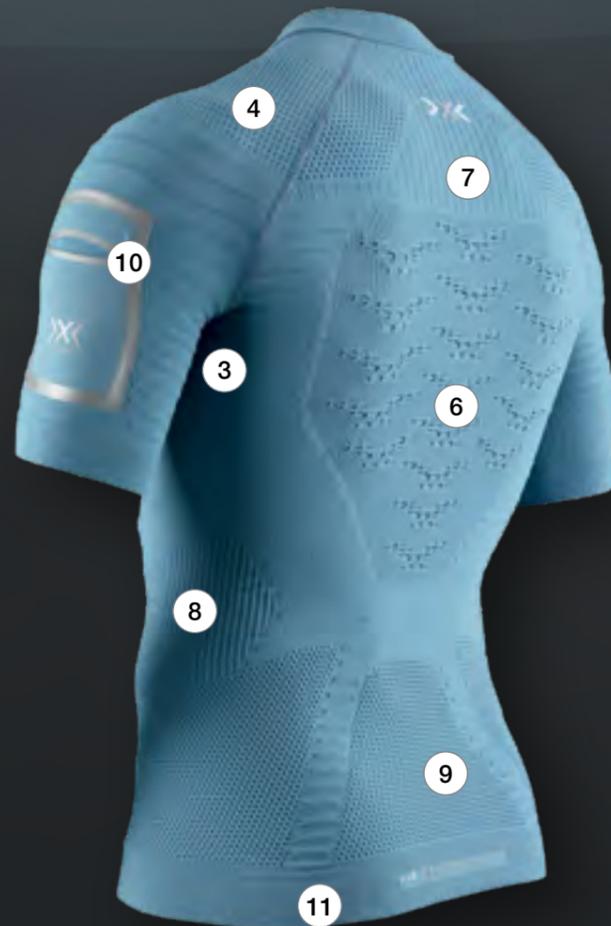
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EFFEKTOR® 4.0

+ 100% SWISS ENGINEERED

MEN TRAIL RUN SHIRT HALF ZIP SH SL

EF-RT12S20M

COMPOSITION
90% Polyamide
7% Elastane
3% Polypropylen



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MEN TRAIL RUN SHIRT HALF ZIP LG SL

EF-RT06S20M

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The AirDuct Pads offer an effective ventilated padding that distributes the pressure from the backpack's waist belt over a large area.

12 SHOULDER POCKET
Practical pocket for small items storage.

13 AKTIV-BUND
Keeps the shirt from slipping up or constricting.

14 IDEO-WAISTBAND
The ergonomically shaped waistband provides a better fit during movement.

RETINA®
Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

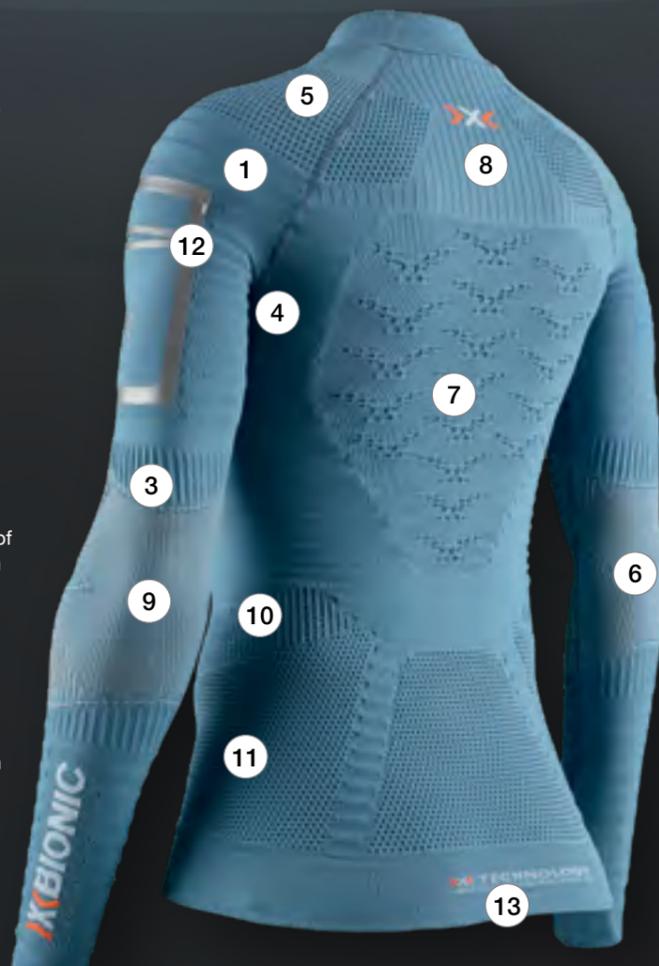
INTELLIYARNS®
Intellyarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®
High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY
X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



EFFEKTOR® 4.0

+ 100% SWISS ENGINEERED

WOMEN TRAIL RUN SHIRT HALF ZIP LG SL

EF-RT12S20M

COMPOSITION
90% Polyamide
7% Elastane
3% Polypropylen



X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

NEURAL-RESPONSE-EFFECT

X-BIONIC® 4.0 Partialkompression® puts peripheral nerve cells in a constant state of readiness; optimises the exchange of neural impulses between muscles and brain; increases muscle reactions, contractions and coordination; and decreases the risk of injury and exhaustion.

- 1 X-BIONIC® 4.0 PARTIALKOMPRESSION®**
A new benchmark in compression technology. X-BIONIC® partialkompression® utilizes the advantages of compression without neglecting cooling.
Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA
- 2 HEAT-TRANSFER-ZONE**
The extremely fine mesh between the compression ridges allows heat to be optimally dissipated.
- 3 NEURAL-RESPONSE-BANDAGE**
The Neural-Response-Bandage exerts targeted pressure on the muscle attachment, prepares the re-ceptors for action and improves the work of the muscles.
- 4 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY**
The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.
Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR
- 5 ISO-PAD**
Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.
- 6 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY**
A high-tech knit technology that ensures optimal support and comfortable temperature regulation. Varying ribbing and surface construction ensures support, plus transports moisture as well as warmth.
Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR
- 7 INTERCOOLER**
This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.
- 8 INNERLAP AIRCONDITIONING ZONE**
The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.
- 9 SMART PHONE POCKET**
Practical pocket for small items storage.
- 10 AKTIV-BUND**
The highly elastic Aktiv-Bund provides a secure fit and supports without constricting or impeding movement.
- 11 IDEO-WAISTBAND**
The ergonomically shaped waistband provides a better fit during movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

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EFFEKTOR® 4.0

+ 100% SWISS ENGINEERED

WOMEN TRAIL RUN SHORTS

EF-R511S20W

COMPOSITION
85% Polyamide
10% Elastane
5% Polypropylen



X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

WOMEN

X-BIONIC EFFEKTOR® 4.0
TRAIL RUN | MEN

TRAIL RUN SHIRT HALF ZIP SH SL
EF-RT12S20M

SIZES: XS S M L XL XXL



G087
CHARCOAL/
PEARL GREY
- C/O -



A209
BLUESTONE/
DOLOMITE GREY
- C/O -



E031
EFFEKTOR GREEN/
ARCTIC WHITE
- C/O -



E031
EFFEKTOR GREEN/
ARCTIC WHITE
- C/O -



A003
TEAL BLUE/
DOLOMITE GREY
- C/O -



O007
SUNSET ORANGE/
PEARL GREY
- C/O -

TRAIL RUN SHORTS
EF-R511S20M

SIZES: XS S M L XL XXL



B137
BLACK/
ANTHRACITE
- C/O -



G087
CHARCOAL/
PEARL GREY
- CANCELED -

NOTES

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X-BIONIC EFFEKTOR® 4.0
TRAIL RUN | WOMEN

EFFEKTOR® 4.0
+ 100% SWISS ENGINEERED

TRAIL RUN SHIRT HALF ZIP SH SL
EF-RT12S20W

SIZES: XS S M L XL XXL



A031
EFFEKTOR TURQUOISE/
ARCTIC WHITE
- C/O -



P029
BRIGHT LAVENDER/
DOLOMITE GREY
- C/O -



P041
FLAMINGO PINK/
ARCTIC WHITE
- C/O -



A209
BLUESTONE/
DOLOMITE GREY
- C/O -

TRAIL RUN SHORTS
EF-R511S20W

SIZES: XS S M L XL XXL



B137
BLACK/
ANTHRACITE
- C/O -



A210
BLUESTONE/
ANTHRACITE
- CANCELED -



G033
ANTHRACITE/
BRIGHT LAVENDER
- CANCELED -

NOTES

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X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

INVENT[®] 4.0

+ 100% SWISS ENGINEERED

ALL-ROUND EFFECT WITH ADDED ENDURANCE

INVENT[®] 4.0 supports the body, saving the athletes energy whilst maintaining thermoregulation. Saved energy equals more performance. Using the patented technologies like the award winning, 3D Bionic Sphere[®] system, ThermoSyphon[®] technology and ultra-high resolution RETINA INVENT[®] 4.0 improves your body temperature regulation as well your endurance and comfort.

RUNNING

100% RESEARCH, DEVELOPMENT, DESIGN + COMMUNICATION DONE IN SWITZERLAND

ENERGIZER[®] | TENTACLE[®] | FENNEC[®] | INVENT[®] | EFTEKTOR[®] | THE TRICK[®] | TWYCE[®] | X-BIONIC[®]

X-BIONIC® HIGH TRANSPORT YARN

DO YOUR OWN COMPARISON TEST

X-BIONIC® utilizes a high transport yarn on the apparel to enhance the dispersal of sweat to create a quicker cooling effect on the body. This quicker cooling ensures a higher performance for the athlete.



HIGHLY ACTIVE X-BIONIC® 4.0 INVENT® HIGH TRANSPORT YARN:
PROCESSES SWEAT AS SOON AS IT DEVELOPS

A fast dispersal of excess sweat over a large surface area is essential for performance-enhancing apparel. Due to special workmanship of the yarn, the surface area has been expanded and, thus, the efficiency of the sweat transport has been improved. Moisture is drawn into the material in a split second and, once there, can be utilised optimally for cooling.

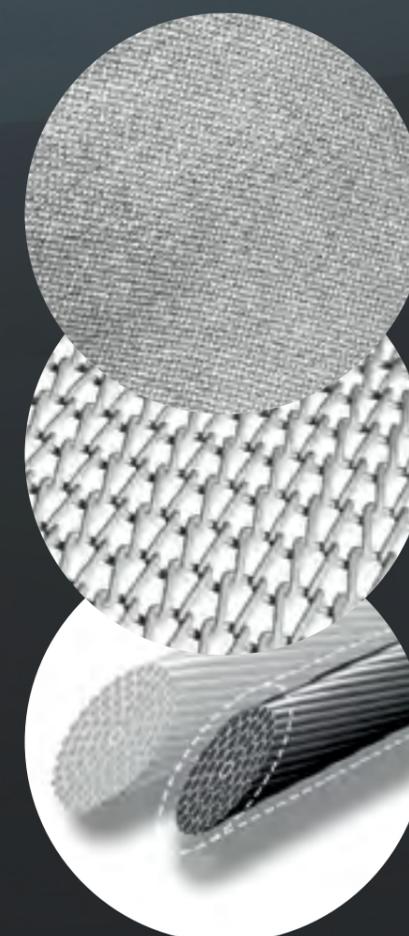
TRADITIONAL “FUNCTIONAL” UNDERWEAR:
PERSPIRATION REMAINS UNPROCESSED EVEN AFTER 1 MINUTE

Many manufacturers of “functional” underwear try to make the product softer, using a special coating. However, due to this treatment the material loses its functionality. At the same time the material gains a new but unwanted characteristic: it becomes water repellent. As you can see on the picture, even after one minute the liquid is not absorbed. The material feels soft and silky, but it does not work properly.

X-BIONIC® CORE TECHNOLOGY

VICTORIES MADE EASY:
ONLY 125 G* WITH ALL X-BIONIC® CORE TECHNOLOGIES

The weight advantage of the apparel lets you increase your power while performing. More explosive, agile and efficient. It weighs 36% less than its predecessor. The apparel therefore fits perfectly into the lightweight strategy, optimal for comfort. INVENT® has been reduced to pure function and is as light and reliable as possible.



ELASTICITY AND ROBUSTNESS

Apparent contrasts work together to provide more freedom of movement, perfect fit and long-lasting effect for years.

WEIGHT-SAVING KNITTING PROCESS

The special mesh geometry ensures that with low material usage nevertheless a homogeneous, flexible surface is created.

OPTIMISED MASS-TO-SURFACE RATIO

The reduction of the fibre diameter by 20% results in a significant weight reduction of 36%. This increases the specific performance.

SPECIAL KNITTED FABRIC
REDUCED BY 36% IN WEIGHT

37°C CCR TECHNOLOGY

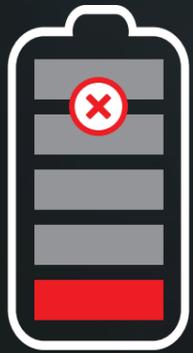
Better performance at the right temperature

“Endurance athletes use up to 97% of their energy in extreme cases just to maintain their optimal body core temperature of 37°C. That leaves only 3% for performance.”

Dr. Ückert, Dortmund University.

Energy consumption needed to maintain 37°C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37°C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.



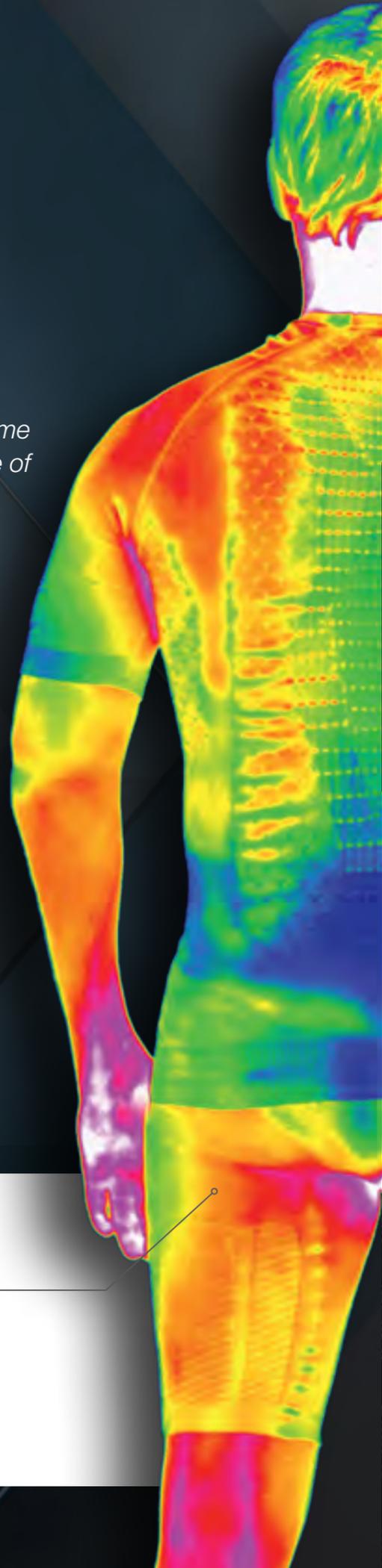
Usable power for your performance without energy-saving technology.



More usable power for your performance with energy-saving technology from X-BIONIC®.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37°C with our patented technologies.



3D BIONIC® SPHERE SYSTEM

Cools you when you sweat.
Warms when you're cold.



DURING ACTIVITY

Cools when you sweat



DURING RECOVERY

Warms when you are cold

In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

- 1 **3D BIONIC SPHERE® SYSTEM**
Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.
- 2 **VENUS XT RIB**
Vertical ventilation channel for an increased air exchange and thus sweat management.
- 3 **SWEAT TRAPS®**
Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.
Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR
- 4 **KIDNEY RIBS**
Enhanced insulation in the particularly temperature-sensitive kidney and pelvis area.
- 5 **IDEO-WAISTBAND**
The ergonomically shaped waistband provides a better fit during movement.
- 6 **AKTIV-BUND**
Keeps the shirt from slipping up or constricting.

RETINA®
Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®
IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

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INVENT® 4.0
+ 100% SWISS ENGINEERED

MEN RUN SPEED SHIRT SH SL

Short Sleeve: RT-RT00S19M

COMPOSITION
97% Polyamide
3% Polypropylen

X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

INVENT

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Enhanced insulation in the particularly temperature-sensitive kidney and pelvis area.

5 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

6 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, BR, CA, CN, IN, JP, MX, RU

7 AKTIV-BUND

Keeps the shirt from slipping up or constricting.

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MEN RUN SPEED SHIRT LG SL

Short Sleeve: IN-RT06W19M

COMPOSITION
97% Polyamide
3% Polypropylen



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

INVENT®

FENNEC®

TENTACLE®

ENERGIZER®

MEN

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4 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY
A high-tech knit technology that ensures optimal support and comfortable temperature regulation. Varying ribbing and surface construction ensures support, plus transports moisture as well as warmth.
Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

5 IDEO-WAISTBAND
Keeps the pants from slipping up or constricting.

6 AKTIV-BUND
The highly elastic Aktiv-Bund provides a secure fit and supports without constricting or impeding movement.

7 X-BIONIC® 4.0 PARTIALKOMPRESSION®
A new benchmark in compression technology. X-BIONIC® Partialkompression® utilises the advantages of compression without neglecting cooling.
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8 INTERCOOLER
This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

9 INNERLAP AIRCONDITIONING ZONE®
The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

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INVENT® 4.0
+ 100% SWISS ENGINEERED

MEN RUN SPEED SHORTS

RT-R500S19M

COMPOSITION
88% Polyamide
7% Elastane
5% Polypropylen



MEN

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TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

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Vertical ventilation channel for an increased air exchange and thus sweat management.

3 SWEAT TRAPS®

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10 EXPANSIONKNEE®

Protects from the cold, even when the knee is bent.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

11 ISO-PAD

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12 AIRCONDITIONINGSPOT

The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

RETINA®

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INVENT® 4.0

+ 100% SWISS ENGINEERED

MEN RUN SPEED PANTS

IN-RP05W19M

COMPOSITION
88% Polyamide
7% Elastane
5% Polypropylen



MEN

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WOMEN **RUN SPEED SHIRT SH SL**

INVENT® 4.0
+ 100% SWISS ENGINEERED

Short Sleeve: RT-RT00S19W

COMPOSITION
97% Polyamide
3% Polypropylen



WOMEN

X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

- 1 **3D BIONIC SPHERE® SYSTEM**
Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.
- 2 **VENUS XT RIB**
Vertical ventilation channel for an increased air exchange and thus sweat management.
- 3 **SWEAT TRAPS®**
Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.
Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR
- 4 **KIDNEY RIBS**
Enhanced insulation in the particularly temperature-sensitive kidney and pelvis area.
- 5 **IDEO-WAISTBAND**
The ergonomically shaped waistband provides a better fit during movement.
- 6 **EXPANSION RIBS®**
The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.
Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU
- 7 **AKTIV-BUND**
Keeps the shirt from slipping up or constricting.

RETINA®
Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®
IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®
High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY
X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



WOMEN RUN SPEED SHIRT LG SL

INVENT® 4.0
+ 100% SWISS ENGINEERED

Long Sleeve: IN-RT06W19W

COMPOSITION
97% Polyamide
3% Polypropylen



WOMEN

X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

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4 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

5 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and supports without constricting or impeding movement.

6 X-BIONIC® 4.0 PARTIALKOMPRESSION®

A new benchmark in compression technology. X-BIONIC® Partialkompression® utilises the advantages of compression without neglecting cooling.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

7 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

8 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

9 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

RETINA®

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INVENT® 4.0

+ 100% SWISS ENGINEERED

WOMEN RUN SPEED SHORTS

RT-R500S19W

COMPOSITION
88% Polyamide
7% Elastane
5% Polypropylen



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9 EXPANSIONKNEE®

Protects from the cold, even when the knee is bent.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

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Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

11 AIRCONDITIONINGSPOT

The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

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+ 100% SWISS ENGINEERED

WOMEN RUN SPEED PANTS

IN-RP05W19W

COMPOSITION
88% Polyamide
7% Elastane
5% Polypropylen



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

INVENT®

FENNEC®

TENTACLE®

ENERGIZER®

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10 AIR GUIDE®

Work like spacers and side stops along the Air-Conditioning Channels®.

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The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

13 SMALL POCKET INSIDE

Practical pocket for small items storage.

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INVENT® 4.0

+ 100% SWISS ENGINEERED

WOMEN SPEED MULTI PANTS 7/8

IN-YP50S20W

COMPOSITION
88% Polyamide
7% Elastane
5% Polypropylen

COMPOSITION MELANGE
58% Polyamide
30% Polyester
7% Elastane
5% Polypropylen



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

INVENT®

FENNEC®

TENTACLE®

ENERGIZER®

RUN SPEED SHIRT SH SL
 RT-RT00S19M

SIZES: XS S M L XL XXL



A005 TEAL BLUE/
KURKUMA ORANGE
- C/O -

B002 OPAL BLACK/
ARCTIC WHITE
- C/O -

R014 NAMIB RED/
KURKUMA ORANGE
- C/O -

E021 AMAZONAS GREEN/
ANTHRACITE
- C/O -

RUN SPEED SHIRT LG SL
 IN-RT06W19M

SIZES: XS S M L XL XXL



A010 TEAL BLUE/
ANTHRACITE
- EOL -

B036 BLACK/
CHARCOAL
- C/O -

RUN SPEED SHORTS
 RT-R500S19M

SIZES: XS S M L XL XXL



A005 TEAL BLUE/
KURKUMA ORANGE
- C/O -

B002 OPAL BLACK/
ARCTIC WHITE
- C/O -

NOTES

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RUN SPEED SHIRT SH SL
 RT-RT00S19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK/
ARCTIC WHITE
- C/O -

R013 NAMIB RED/
NEON FLAMINGO
- C/O -

P028 BRIGHT LAVENDER/
WHITE
- C/O -

O005 SUNSET ORANGE/
NEON FLAMINGO
- EOL -

RUN SPEED SHIRT LG SL
 IN-RT06W19W

SIZES: XS S M L XL XXL



B036 BLACK/
CHARCOAL
- C/O -

R013 NAMIB RED/
NEON FLAMINGO
- EOL -

RUN SPEED PANTS
 IN-RP05W19W

SIZES: XS S M L XL XXL



B036 BLACK/
CHARCOAL
- C/O -

NOTES

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RUN SPEED SHORTS
 RT-R500S19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK/
ARCTIC WHITE
- C/O -

R013 NAMIB RED/
NEON FLAMINGO
- C/O -

G016 DOLOMITE GREY
MELANGE/
NEON FLAMINGO
- EOL -

SPEED MULTI PANTS 7/8
 IN-YP50S20W

SIZES: XS S M L XL XXL



G158 GREY MELANGE/
BRIGHT LAVENDER
- C/O -

B002 OPAL BLACK/
ARCTIC WHITE
- C/O -

X-BIONIC®
 TWYCE®
 THE TRICK®
 EFFEKTOR®
 INVENT®
 FENNEC®
 TENTACLE®
 ENERGIZER®

FENNEC® 4.0

+ 100% SWISS ENGINEERED

COOLING IN EXTREME HOT CLIMATES

Inspired by the desert fox Fennec, whose glossy, silvery fur reflects the heat radiated by scorching hot desert sun, thus making it possible for the fox to survive in the heat, X-BIONIC® produced the FENNEC® 4.0 line. Using the revolutionary material XITANIT® 2.0, which mimics the Fennec's ability to get hot on the outside whilst staying cool on the inside, FENNEC® 4.0 acts as a shield against the heat.

RUNNING

ENERGIZER® | TENTACLE® | FENNEC® | INVENT® | EFFEKTOR® | THE TRICK® | TWYCE® | X-BIONIC®

HEAT ON THE OUTSIDE, POWER ON THE INSIDE.

Thanks to X-BIONIC®
Wüstenfuchs technology.

FENNEC TECHNOLOGY

The desert fox Fennec, which is called Wüstenfuchs in German, lives and hunts in intense heat and has adapted perfectly to its hostile environment. This works mainly because its silvery, glossy fur reflects the radiated heat and because it can release a lot of its body heat through its large ears. It is the inspiration behind our X-BIONIC® Wüstenfuchs Technology, that thanks to the exclusive XITANIT® material, is able to reflect the radiated heat from the outside air and distribute sweat all over the skin to achieve effective cooling.



2012
XITANIT®



2010
International
XITANIT®



2008 X-BIONIC®
Wüstenfuchs
Technology



2020 PLUS X
AWARD Best
Product of the year



2012
XITANIT®



2010
International
XITANIT®



2008 X-BIONIC®
Wüstenfuchs
Technology

INTEGRATED HEAT MANAGEMENT: XITANIT® 2.0

A first step involves XITANIT® 2.0 drawing excess body warmth away from the working muscles. In a second step, the extreme conductivity of the material is brought to bear, drawing the heat away just like a silver spoon in a hot cup of tea.



LIKE RUNNING IN THE SHADE.

Thanks to X-BIONIC®
Wüstenfuchs technology.



HEAT REFLECTING:

Searing hot sun, glowing black asphalt and hot-to-the-touch building facades are all environmental factors that raise an athlete's temperature. This radiation is reflected and prevented from penetrating the athlete's skin thanks to the X-BIONIC® Fenec® 4.0 Running Shirt.

The effect is palpable: the shirt heats up on the outside but stays cool on the interior, keeping you fresh as it neutralises external sources of heat.



HEATPIPE® SYSTEM:

The HeatPipe® System is like a separate microcosm in cooling dynamics. The special knitting technique forms micro ducts. Sweat progresses through the ducts, is heated and then evaporates on the warm outer surface causing a cooling process. Part of the moisture condenses and is then absorbed back into the skin in a cooler state.

A circular flow continues, drawing excess sweat outward and then uses it to aid cooling. No wet sensation, optimal cooling.



DISSIPATING BODY WARMTH:

As a first step, XITANIT® 2.0 draws excess body heat away from the large working muscles. As a second step, the material's extreme conductivity kicks in – working to dissipate and draw away heat just as a silver spoon in a hot cup of tea does.

X-BIONIC® PARTIALKOMPRESSION®

A new benchmark in compression technology. Partialkompression® by X-BIONIC® utilizes the advantages of compression without neglecting cooling.

During sport activities body warmth is created. In extreme situations up to 1,200 watts worth. Up to 90% of this is released by the athlete from the skin to maintain a body temperature of 37 °C. X-BIONIC® Partialkompression® applies targeted pressure on 1mm wide ridges. Left and right of the ridge is a compression-free area where compression could have a negative effect on blood circulation to the skin. In this way the blood flow through veins and capillaries remain unimpeded.

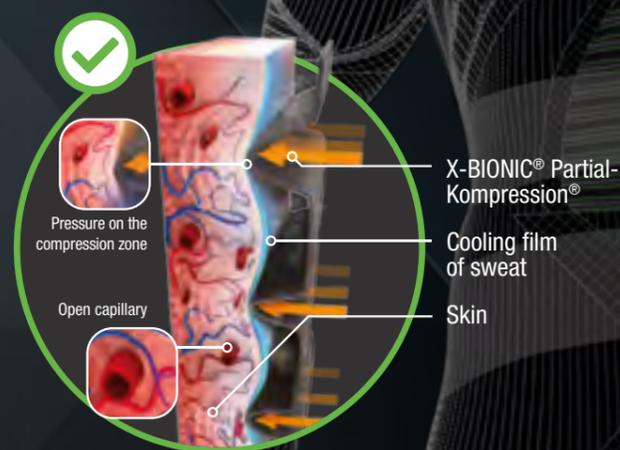
Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

THE RESULTS ARE REVOLUTIONARY:

- Reduces muscle vibration
- Improves muscle uptake of oxygen and nutrients
- Speeds recovery

+ COOLING MECHANISM

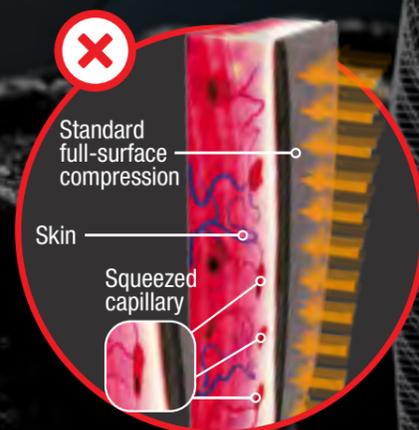
Partialkompression® uses the skin as a surface for cooling and, thus, can take advantage of the body's personal micro-climate for optimising performance.



X-BIONIC® PARTIALKOMPRESSION®

keeps the capillaries open.

→ The body cools down



Standard, full-surface compression chokes the blood vessels.

→ The body overheats

First the pressure increases, then your performance:

X-IMPACT TECHNOLOGY

As soon as your muscles quiver from fatigue, their lack of strength will hinder your performance. And athletic success will slip farther from your grasp. Decision Layer by X-BIONIC® is the intelligent technical base layer that thanks to compression can help athletes again edge closer to success because it stabilises active muscles. They don't quiver; rather they can more effectively use the energy resources that are there for the taking. Even in the more advanced stages of races you'll be able to fully rely on your muscles with X-BIONIC®. Even when you already have the championship in your grasp.

Optimal oxygen uptake and nutrient supplies for your body also are an important foundation for athletic success. If you are hungry for victory, you can't let your body starve in any stage of the race. X-Impact Technology stabilises your capillaries and veins. It takes the stress off your circulatory system and quickly supplies muscles and organs with performing-enhancing oxygen and nutrients. Your body can tap into all of its resources at the right time so you can be victorious in the tough races.



Improved oxygen and nutrient supply to the muscles



Reduction of muscle vibrations

3D BIONIC® SPHERE SYSTEM WITH ThermoSyphon® Technology

Cools you when you sweat.
Warms when you're cold.



DURING ACTIVITY

Cools when you sweat



DURING RECOVERY

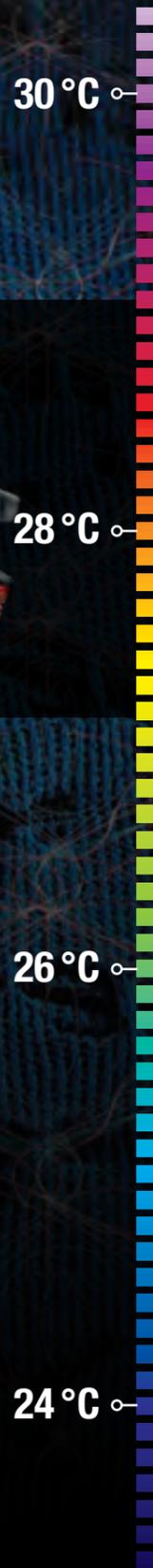
Warms when you are cold

In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR



red dot award 2018 winner



37°C CCR TECHNOLOGY

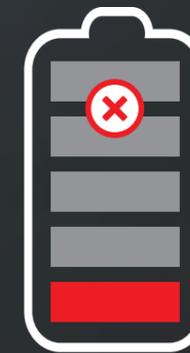
Better performance at the right temperature

"Endurance athletes use up to 97% of their energy in extreme cases just to maintain their optimal body core temperature of 37°C. That leaves only 3% for performance."

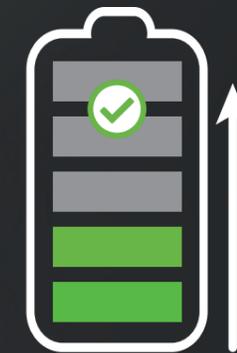
Dr. Ückert, Dortmund University.

Energy consumption needed to maintain 37°C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37°C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.



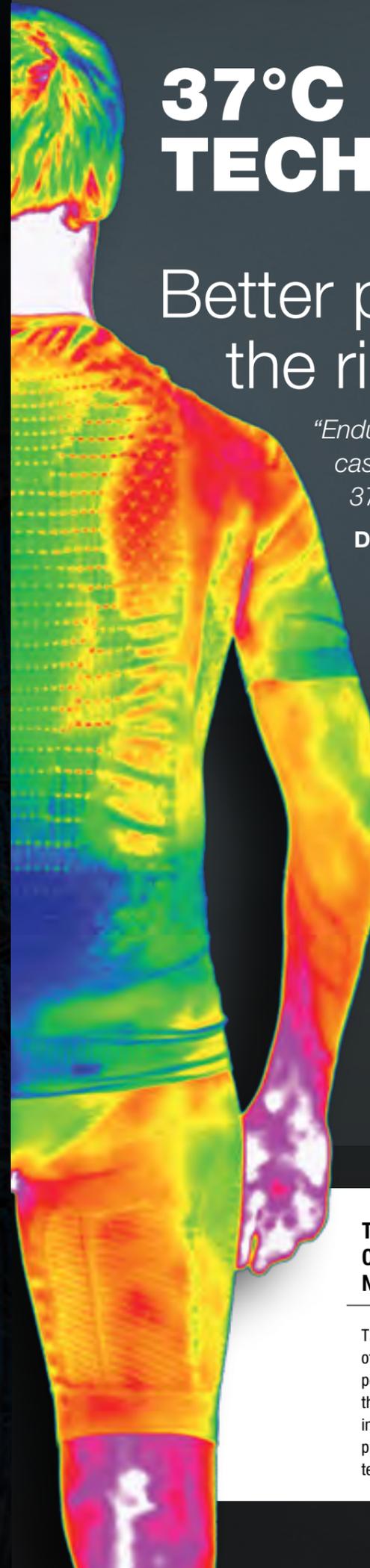
Usable power for your performance without energy-saving technology.



More usable power for your performance with energy-saving technology from X-BIONIC®.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37°C with our patented technologies.



X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

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2 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 SWEAT TRAPS® ON THE BACK

The Sweat Traps® on the lower back are targeted specifically at catching sweat flowing toward the tailbone and the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 IDEO-WAISTBAND

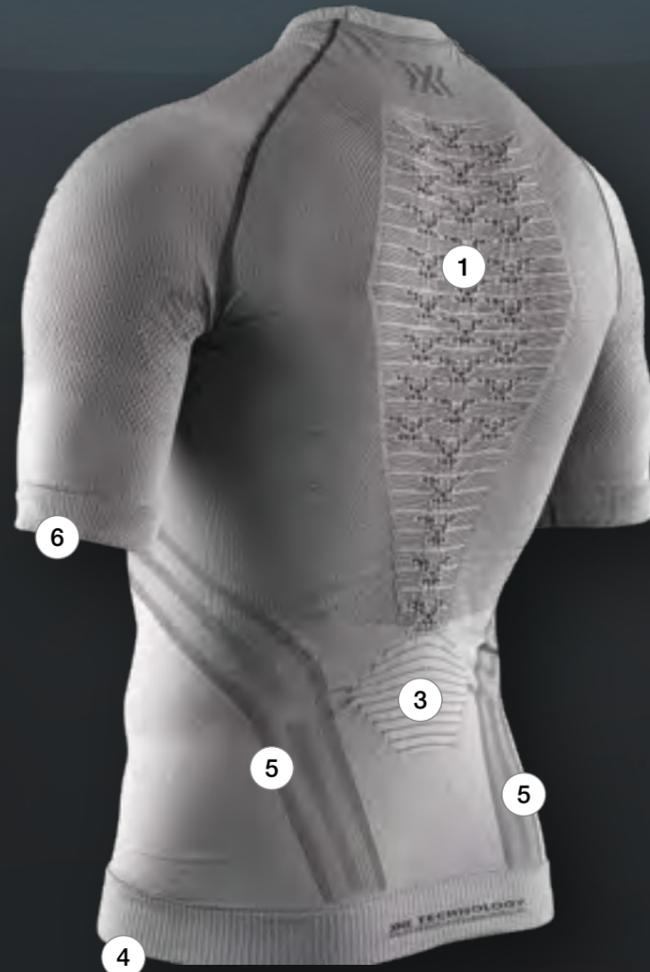
The ergonomically shaped waistband provides a better fit during movement.

5 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

6 AKTIV-BUND

Keeps the shirt from slipping up or constricting.



XITANIT® 2.0

The revolutionary XITANIT® 2.0 material is highly conductive and capable of reflecting thermal radiation. This lightweight material keeps you warm and prevents bacterial growth.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

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37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

FENEC® 4.0

+ 100% SWISS ENGINEERED

MEN RUN SHIRT SH SL

FE-RT12S20M

COMPOSITION
TBD



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

INVENT®

FENEC®

TENTACLE®

ENERGIZER®

1 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

A high-tech knit technology that ensures optimal support and comfortable temperature regulation. Varying ribbing and surface construction ensures support, plus transports moisture as well as warmth

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 PARTIALKOMPRESSION®

A new benchmark in compression technology. X-BIONIC® Partialkompression® utilises the advantages of compression without neglecting cooling.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

5 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

6 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

7 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

8 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

9 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and supports without constricting or impeding movement.

XITANIT® 2.0

The revolutionary XITANIT® 2.0 material is highly conductive and capable of reflecting thermal radiation. This lightweight material keeps you warm and prevents bacterial growth.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

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MEN RUN SHORTS

FE-R511S20M

COMPOSITION
TBD



X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

MEN

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3 SWEAT TRAPS® ON THE BACK

The Sweat Traps® on the lower back are targeted specifically at catching sweat flowing toward the tailbone and the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

5 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

6 AKTIV-BUND

Keeps the shirt from slipping up or constricting.



XITANIT® 2.0

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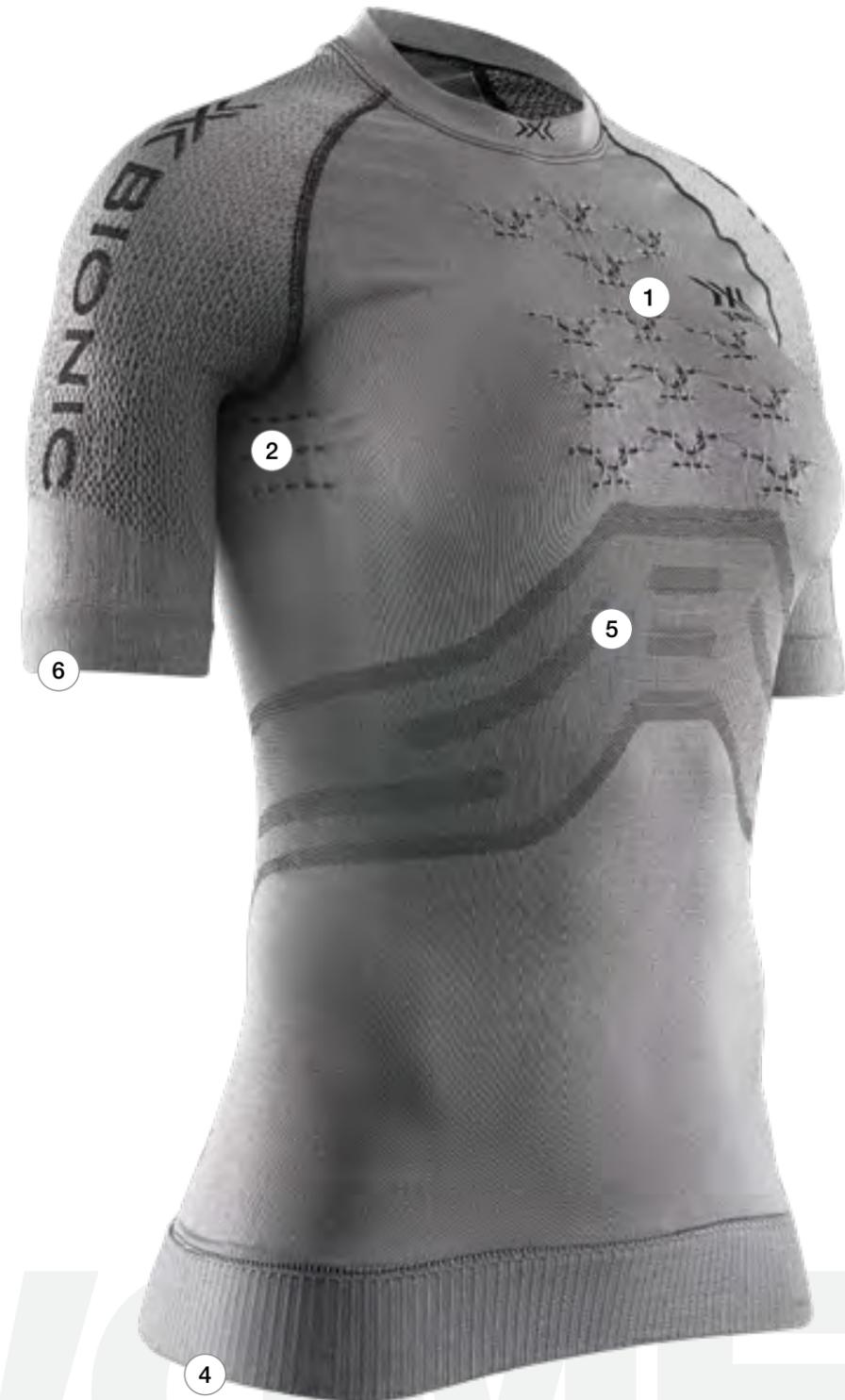
FENNEC® 4.0

+ 100% SWISS ENGINEERED

WOMEN RUN SHIRT SH SL

FE-RT12S20W

COMPOSITION
TBD



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

INVENT®

FENNEC®

TENTACLE®

ENERGIZER®

WOMEN

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RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

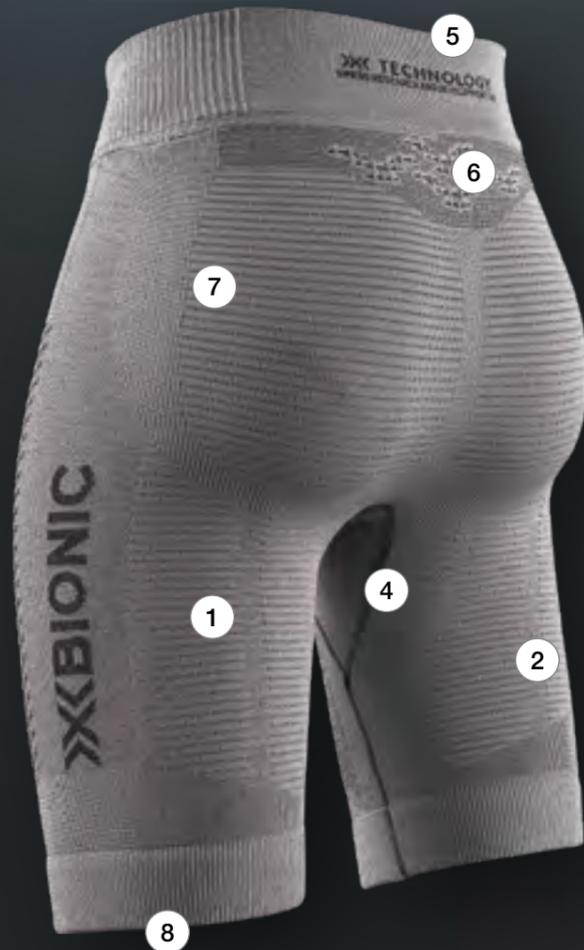
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FENNEC® 4.0

+ 100% SWISS ENGINEERED

WOMEN RUN SHORTS

FE-R511S20W

COMPOSITION
TBD



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

INVENT®

FENNEC®

TENTACLE®

ENERGIZER®

WOMEN

RUN SHIRT SH SL
FE-RT12S20M

SIZES: XS S M L XL XXL



G051
ANTHRACITE/
SILVER
- C/O -

RUN SHORTS
FE-R511S20M

SIZES: XS S M L XL XXL



G051
ANTHRACITE/
SILVER
- C/O -

RUN SHIRT SH SL
FE-RT12S20W

SIZES: XS S M L XL XXL



G051
ANTHRACITE/
SILVER
- C/O -

RUN SHORTS
FE-R511S20W

SIZES: XS S M L XL XXL



G051
ANTHRACITE/
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NOTES

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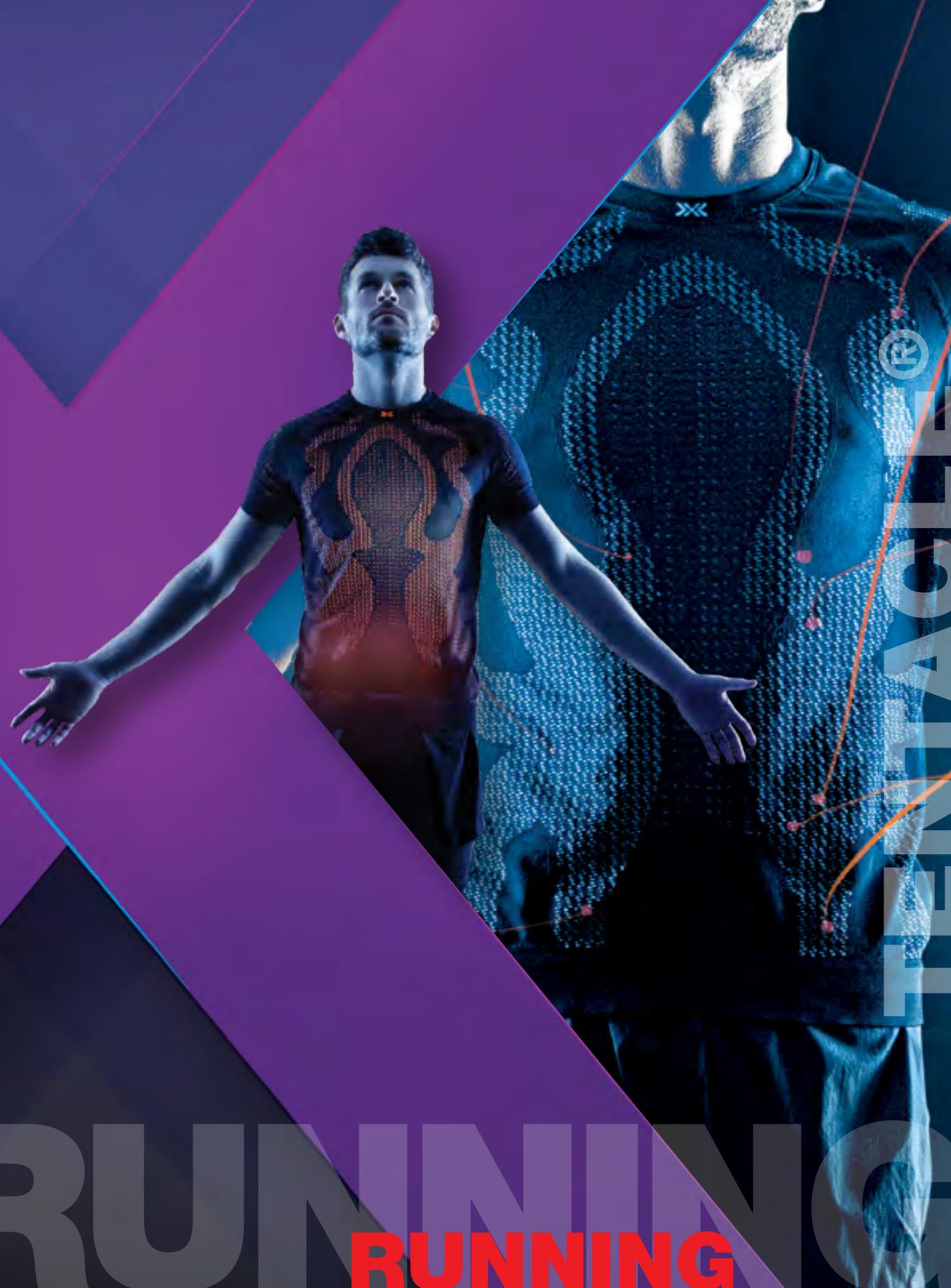
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TENTACLE® 4.0

+ 100% SWISS ENGINEERED

BENEFITS OF COOLING WITH A LOOSE-FIT

X-BIONIC® TENTACLE® is the first fully functional, thermoregulating sportswear line that works without a tight fit. People who prefer to wear loose clothing can now also enjoy the patented, award-winning X-BIONIC® technologies, including the 3D Bionic Sphere® System with ThermoSyphon®, the patented Sweat Traps® and the ultra-high-resolution Retina® technology.



RUNNING

ENERGIZER® | TENTACLE® | FENNEC® | INVENT® | THE TRICK® | TWYCE® | X-BIONIC®

With **20 years** of experience

in research and development X-BIONIC® was asked by its clients and distributors to create functional wear with a “looser fit” that has the same thermoregulating effect as our award winning TWYCE®, EFFEKTOR® or THE TRICK® products.



We learn from nature then we surpass it.

Finding an answer is like trying to square the circle. For years, our scientists have been trying to develop a solution.

Again, we asked ourselves: What solution does nature provide? The first thing we looked at was the kraken. Then, we found similarities in bacteria and plants that have this type of tentacle to do the job.

After investing years of scientific and design work, we are ready to present a groundbreaking solution.

It took millions of years for **nature** to conquer distances. it took us less.



TENTACLE TECHNOLOGY

TENTACLE® 4.0 TECHNOLOGY:

COMBINING LOOSE-FIT, BEST COMFORT AND PERFORMANCE



The shirt is the core, the tentacles are the arms creating cooling and evaporation. This new concept is so unique and powerful that we applied for a patent. There is just no other non-compression gear that does a job in a similar way.

THE SOLUTION: Hydrophilic hollow fibres create a connection between the skin and the inside of functional clothing. Without surface contact, they absorb sweat before it forms drops and runs. Zone-specifically placed tentacles selectively transport the sweat to the outside, where it evaporates to increase performance and relieves the organism.

Microbes use their tentacle-like arms to gain added reach.



The tentacles become the transportation device, bringing nutrients down to the core.



Now, **X-BIONIC®** has found a way to give our skin tentacles.

TENTACLE TECHNOLOGY

1 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

2 SWEAT TRAPS®

Enlarged Sweat Traps® for added cooling performance. Ergonomically positioned based on laboratory tests, Sweat Traps® prevent droplet formation and cool effectively. *Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR*

3 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

4 TENTACLE COLLECTOR

Flat Tentacle zones run along large, sweat-relevant areas. The integrated tentacles are placed in different densities depending on the cooling requirements of the corresponding zone, absorb sweat on the skin surface and transport it for evaporation to the outside of the functional clothing.

5 MICRO 3D BIONIC SPHERE® SYSTEM

By incorporating tentacle fibres, the award-winning 3D BIONIC SPHERE® SYSTEM for adaptive thermoregulation bridges the distance between functional clothing and skin. Its' three-dimensional spatial structures increase the thermoregulation surface in sweat-intensive zones and simultaneously maximize the range of the tentacles. Through the tentacles, sweat is taken away from the skin and distributed over the large 3D BIONIC SPHERE® structure where it evaporates with a cooling effect.

6 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

7 AKTIV-BUND

Keeps the shirt from slipping up or constricting.



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

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TENTACLE® 4.0

+ 100% SWISS ENGINEERED

MEN SHIRT SH SL

TE-YT12S20M

COMPOSITION
TBD



X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
INVENT®
FENNEC®
TENTACLE®
ENERGIZER®

MEN

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MEN SHIRT LG SL

TE-YT06S20M

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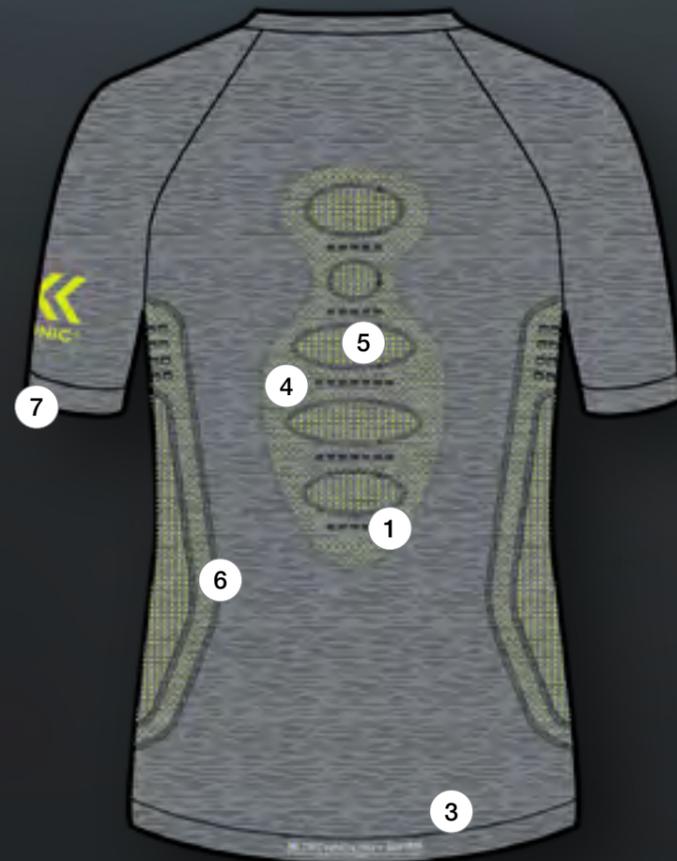
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WOMEN SHIRT SH SL

TE-YT12S20W

COMPOSITION
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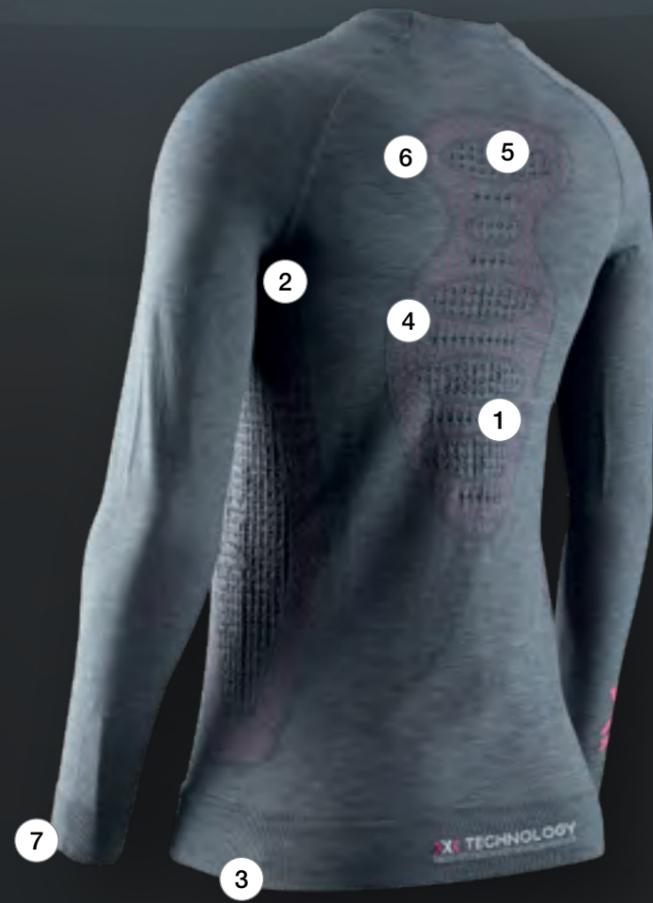
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ENERGIZER®

WOMEN

SHIRT LG SL
 TE-YT06S20M

SIZES: XS S M L XL XXL



G145
 GREY MELANGE/
 PHYTON YELLOW
 - IN DEV. -

SHIRT SH SL
 TE-YT12S20M

SIZES: XS S M L XL XXL



G372
 GREY MELANGE/
 ORANGE
 - IN DEV. -

SHIRT LG SL
 TE-YT06S20W

SIZES: XS S M L XL XXL



G144
 GREY MELANGE/
 PINK
 - IN DEV. -

SHIRT SH SL
 TE-YT12S20W

SIZES: XS S M L XL XXL



G145
 GREY MELANGE/
 PHYTON YELLOW
 - IN DEV. -

NOTES

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NOTES

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 SWISS ENGINEERED

 CRAFTED IN ITALY

turn sweat into energy[®]
CYCLING

SPEED, ENDURANCE, PRECISION: KAI SAALER, X-BIONIC® ATHLETE



Kai Saaler
PROFESSIONAL ATHLETE

Spending 12 or 24 hours on a mountain bike, yet alone a race of that duration, might sound like torcher to most, but there are some who thrive on the feeling they get. Especially when despite the hard work they've put in, they are not feeling the full effects of physical exhaustion. That's because they have a secret weapon to support their body: X-BIONIC®. This includes Kai Saaler, one of our #xbathletes and global ambassadors.

With enhanced performance and groundbreaking records, Kai Saaler is an eminence of the long-distance MTB world. As record holder of one World Guinness Record (max altitude in MTB in 24 hours), three World and European Champions, as well as a full track record of victories at the most prestigious 12 & 24 hours long-distance MTB races, he is a living legend of the sport and he is far from throwing in the towel.

"X-Bionic's products and technologies have always been with me, right from the beginning of my career. I have tried many other brands but without a doubt I can say that there is only one that can help you perform at an even higher level, and that is X-Bionic. It simply elevates your performance.

My sporting career would not have been so successful without the help of X-Bionic and X-Socks."



TWYCE® 4.0

+ 100% SWISS ENGINEERED

TWYCE THE COOLING FOR MORE PERFORMANCE

TWYCE® 4.0 is the best and most powerful high-tech interface for your skin when exposed to large temperature variations like when starting from a cool morning into a hot day.

TWYCE® 4.0 doubles the cooling effect, helps the body keep a stable body core temperature of 37° C and leaves even more energy reserves for your training and your sporting performance.

turn sweat into energy®
CYCLING

X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

TWYCE®

CYCLING

TWYCE® 4.0

+ 100% SWISS ENGINEERED

X-BIONIC® TWYCE® COOL ZONE

Special knitted structure absorbs sweat from the 3D Bionic Sphere® System with ThermoSyphon® Technology.

The mechanical “push-pull effect”, which is generated by combining hydrophobic fibre with a hydrophilic fibre, rapidly transports sweat through the fabric.



Optimal sweat transport: Thanks to X-BIONIC® TWYCE® Y-Structure.

The TWYCE® innovation: the Y-Structure created from hydrophobic and hydrophilic fibres generates a “push-pull effect”, which helps to transport sweat more quickly from the 3D Bionic Sphere® System with ThermoSyphon®, and distribute it where it can evaporate with a maximum cooling effect.



Hydrophilic yarn
(evaporation)

The moisture-attracting yarn absorbs sweat on the fibre surface like a sponge and it evaporates quickly. Capillary effects attract more sweat from the surrounding hydrophobic Y-Structure elements.



Hydrophobic yarn
(transportation)

The moisture-repellent properties of this yarn shuttle sweat away from the more saturated hydrophilic zones to the less saturated ones. Sweat is distributed over a larger area of the TWYCE® Cool Zone.

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TWYCE THE COOLING, TAKEN TO THE NEXT LEVEL

Innovation stands at the forefront of everything that we do at X-BIONIC® and when you tell us that you love a product, we work hard on making it even better, even if it seems nearly impossible. After the flood of positive feedback, we gave our best to develop the TWYCE® 4.0 generation further, creating an even more powerful garment, the improved **TWYCE® 4.0**.

Equipped with even more cooling ability than its predecessor, thanks to a **50% increase of the TWYCE® Cool Zone**, sweat evaporates over a broader area, including the shoulders, ensuring you'll never have to fear overheating again. We've increased the cooling performance thanks to strategically **expanding the 3D BIONIC SPHERE® System with THERMOSYPHON® Technology by 75%** to also be **incorporated adjacent to the Aircomplex Zone through the addition of the 3D BIONIC SPHERE® System**. This increase in the technologies surface area allows for an even stronger cooling effect. Optimized through scientific testing and real-world experience, the 3D BIONIC SPHERE® System stops unpleasant humidity and the risk of overheating or chilling during and the physical activities, rest and recuperation phases. Once your body heats up and begins to sweat, the cooling function is activated.

Our continued innovational spirit can be seen in the **incorporation of new technologies into the IMPROVED 4.0 edition like our AIR GUIDE®**, which frame our AIR-CONDITIONING CHANNELS® to ensure the cooling effect is upheld even when the garment is covered by a second layer. The AIR GUIDE® consists of 3-dimensional lines that also increase the evaporation rate of the improved **TWYCE® 4.0**. The **addition of the ISO-Pads** keep you protected against the cold through targeted insulation of individual body parts, further optimizing the TWYCE® range for all weather conditions.

In addition to the new technologies, the improved **TWYCE® 4.0** also sees **updates to the existing AIRCOMPLEX ZONES**. **Increased surface area of this technology at the solar plexus** protect important nerve fibers, that receive signals to influence the entire body's wellbeing, through optimal insulation. The system's structure processes excess sweat from physical activity and ensures the ideal performance body core temperature. Another key element of the improved **TWYCE® 4.0** collection is the continued use of our unique PARTIALKOMPRESSION® Technology in our pants. The patented X-BIONIC® PARTIALKOMPRESSION® sets a new benchmark in compression technology, utilizing the advantages of compression without neglecting cooling. PARTIALKOMPRESSION® improves your oxygen and nutrient supply to the muscles, leading to a better performance and a faster recovery.

The cycling line continues to be a cyclist's best friend with the foam based 4000FX BIKE PAD®, delivering a combination of comfort and performance. Equipped with even more technology and increased efficiency, the improved **TWYCE® 4.0** gear puts you on the path to success.

Our patented 3D BIONIC SPHERE® System with THERMOSYPHON® Technology along with our patented SWEAT TRAPS®, remain the unique selling points of the technology filled garment, ensuring it'll sell like hotcakes.

TWYCE® 4.0

+ 100% SWISS ENGINEERED

+75%

ELEMENTS EXPANDED BY 75%, ALLOWING OPTIMAL CLIMATE BALANCE

Cools when you sweat, Warms when you are cold. **3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY**

+50%

EXTENDED AND INCREASED BY 50%

Enhancing cooling effect. **TWYCE® COOL ZONE**

EXTENDED AND PLACED ADJACENT TO THE AIRCOMPLEX ZONE FOR A STRONGER COOLING EFFECT

Cools when you sweat, Warms when you are cold. **3D BIONIC SPHERE® SYSTEM**

BIGGER TO INCREASE EVAPORATION SURFACE AREA

Optimal cooling in the core. **AIRCOMPLEX ZONE**

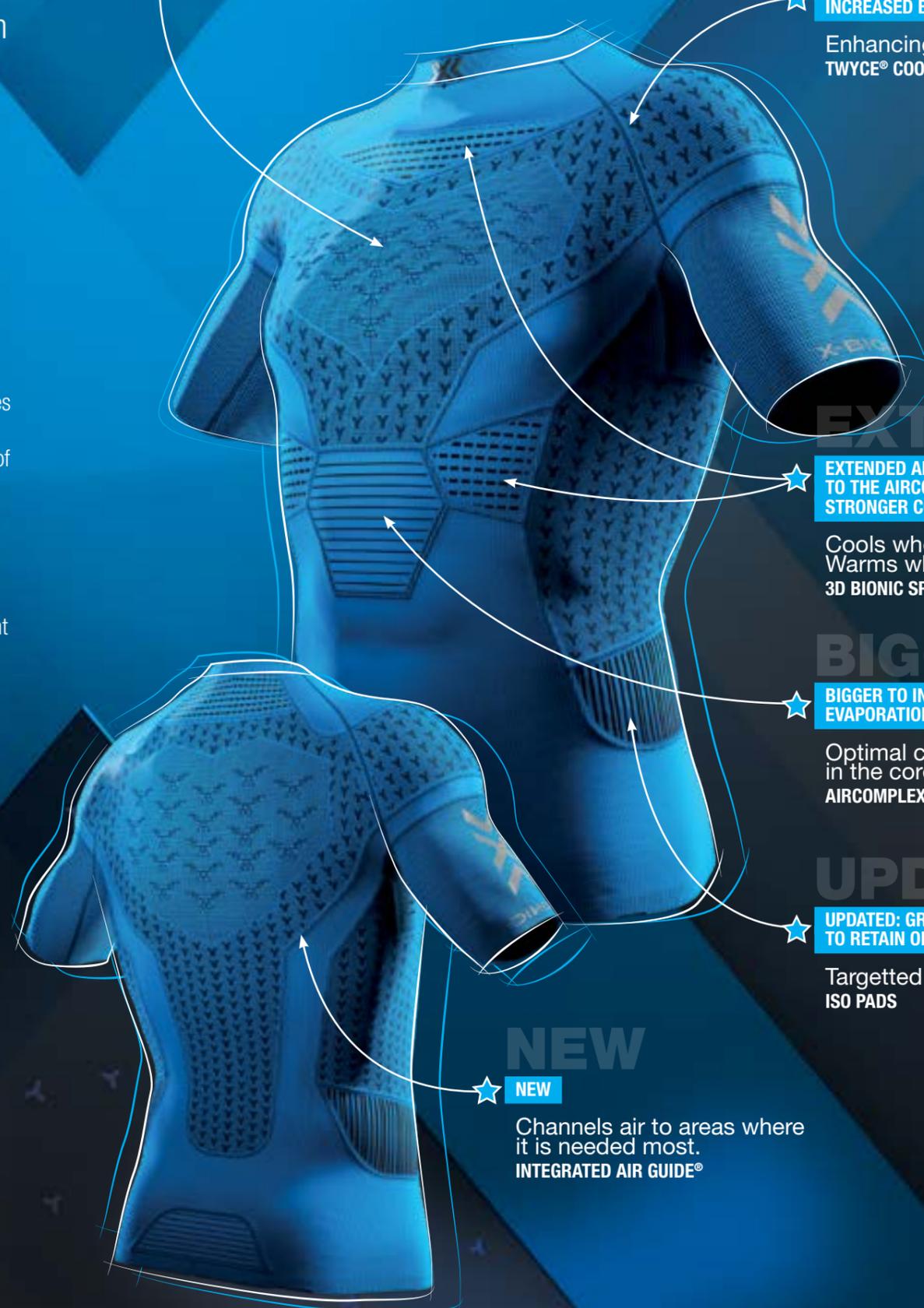
UPDATED: GREATER EFFECT TO RETAIN OPTIMAL TEMPERATURES

Targetted insulation areas. **ISO PADS**

NEW

NEW

Channels air to areas where it is needed most. **INTEGRATED AIR GUIDE®**



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

COMFORT 4000FX

BIKE PAD FOR WOMEN

Foam pads with an even knit structure at the front for this delicate area

- 1 ERGONOMIC PUBICPAD**
Protects sensitive areas thanks to the highly breathable, well-cushioned bike pad.
- 2 MEMORY FOAM PAD ON THE PUBIC BONE**
Reduces pressure points in this delicate zone.
- 3 100% ELASTICITY OF THE PAD**
Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.
- 4 THE BACTERIOSTATIC INNER SURFACE**
The 3D knit structure in Skin NODOR® guarantees optimal seat comfort.
- 5 THE COMBINATION OF 3D KNIT STRUCTURE AND FOAM**
Provides maximum elasticity and ideal fit.
- 6 CHANNELS IN THE FOAM**
Ensure optimised moisture management inside the pad.
- 7 SEAMLESS 3D KNIT PARTS**
Allow a perfect combination of complex functional surface structures whilst avoiding the risk of skin irritation.
- 8 POWERFULLY SHOCK-ABSORBING PADS**
In the area of the ischium, the pads offer effective shock absorption and proportionate distribution of pressure.
- 9 THIN LAYER**
Ensure optimised moisture management inside the pad.
- 10 STABILISED LINING**
For lifetime durability.
- 11 FOAM PAD WITH AIR DUCTS**
Arranged for optimal moisture management.

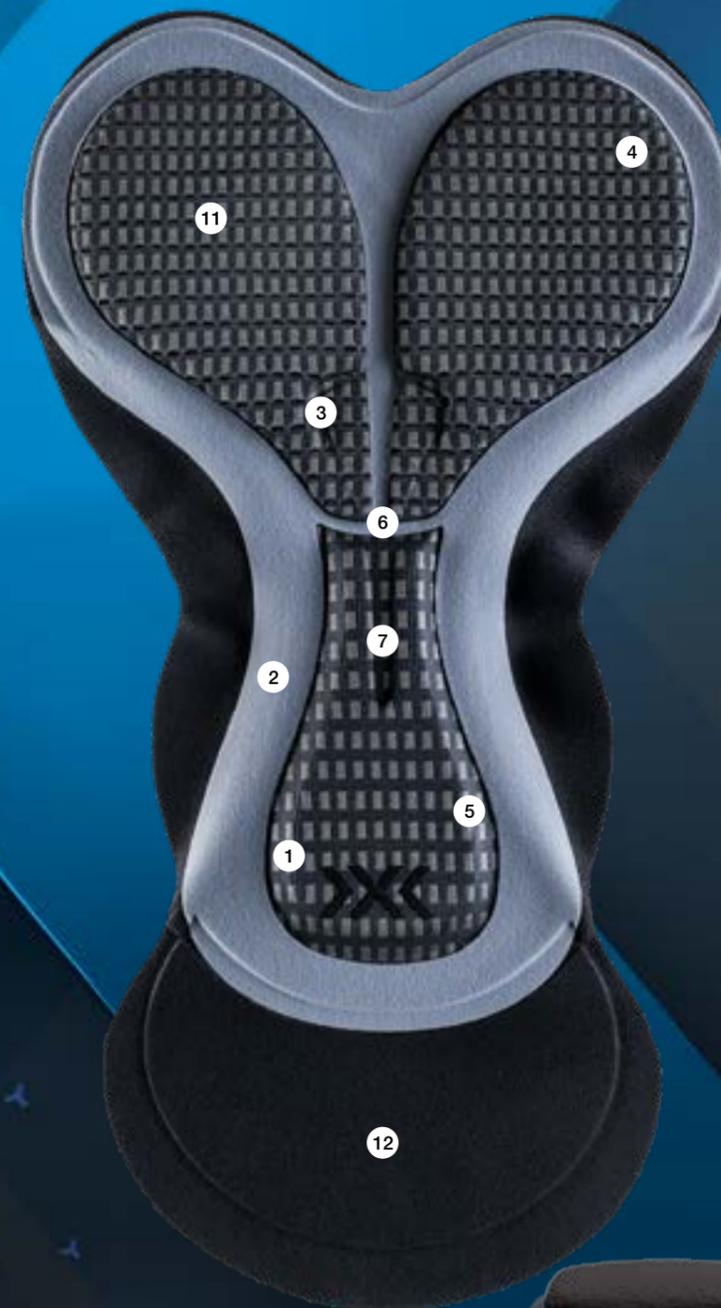


ENDURANCE 4000FX

BIKE PAD FOR MEN

Foam pads with an even knit structure at the front for this delicate area

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Protects sensitive areas thanks to the highly breathable, well-cushioned bike pad.
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Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.
- 3 THE BACTERIOSTATIC INNER SURFACE**
The 3D knit structure in Skin NODOR® guarantees optimal seat comfort.
- 4 THE COMBINATION OF 3D KNIT STRUCTURE AND FOAM**
Provides maximum elasticity and ideal fit.
- 5 CHANNELS IN THE FOAM**
Ensure optimised moisture management inside the pad.
- 6 LONGITUDINAL SECTIONS AND CROSS SECTIONS**
Make the seat pad extremely adaptable.
- 7 SEAMLESS 3D KNIT PARTS**
Allow a perfect combination of complex functional surface structures whilst avoiding the risk of skin irritation.
- 8 THIN LAYER**
Ensure optimised moisture management inside the pad.
- 9 STABILISED LINING**
For lifetime durability.
- 10 FOAM PAD WITH AIR DUCTS**
Arranged for optimal moisture management.
- 11 3D KNIT STRUCTURE**
- 12 WINDPROOF PROTECTION**



1 X-BIONIC® TWYCE® COOL ZONE

Hydrophilic and hydrophobic fibres collect excess sweat from the 3D Bionic Sphere® System with ThermoSyphon® Technology and allow it to evaporate over a broad area to provide extra cooling.

2 200 % ENLARGED 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The precisely defined position on the chest and back offers more cooling power, according to tests and experience. The 3D Bionic Sphere® System with ThermoSyphon® Technology on the chest and back, stops the unpleasant dampness, the feeling of overheating, and the risk of chilling during rest and recovery. The cooling function only kicks in when your body begins to build up body heat and sweat. No sweat means the insulating effect takes over.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 AIR GUIDES®

The Air-Conditioning Channels® are framed in Air Guides® so that they can also work effectively under a second layer. The evaporation rate is increased.

5 AIRCOMPLEX ZONE

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

6 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

7 85° TECHNOLOGY SLEEVE

Anatomically shaped sleeve, adapted to bike position.

8 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

9 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

10 BACK POCKETS

Secure storage with quick access.

11 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY®

H-DRY TECHNOLOGY

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37 °C CCR-TECHNOLOGY

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EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

MEN CYCLING ZIP SHIRT SH SL

TW-BT00S21M

COMPOSITION
90% Polyamide
7% Polypropylen
3% Elastane



MEN

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Hydrophilic and hydrophobic fibres collect excess sweat from the ThermoSyphon® System and allow it to evaporate over a broad area to provide extra cooling.

2 X-BIONIC® 4.0 PARTIALKOMPRESSION®

A new benchmark in compression technology. X-BIONIC® 4.0 Partialkompression® utilises the advantages of compression without neglecting cooling.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

3 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZEROInsulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

4 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why Iso-Pads over the hipbones retain body heat that is necessary to guarantee interior organ functionality.

5 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

In the body, varying amounts of heat are produced in different areas, with particularly high temperatures on the chest and the back regions, caused by the need for protecting internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

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6 SWEAT TRAPS® AT THE TAILBONE

The Sweat Traps® on the lower back are constructed explicitly for catching sweat flowing toward the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

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The soft and wide straps guarantee secure support and provide extra comfort.

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Keeps the pants from slipping or constricting.

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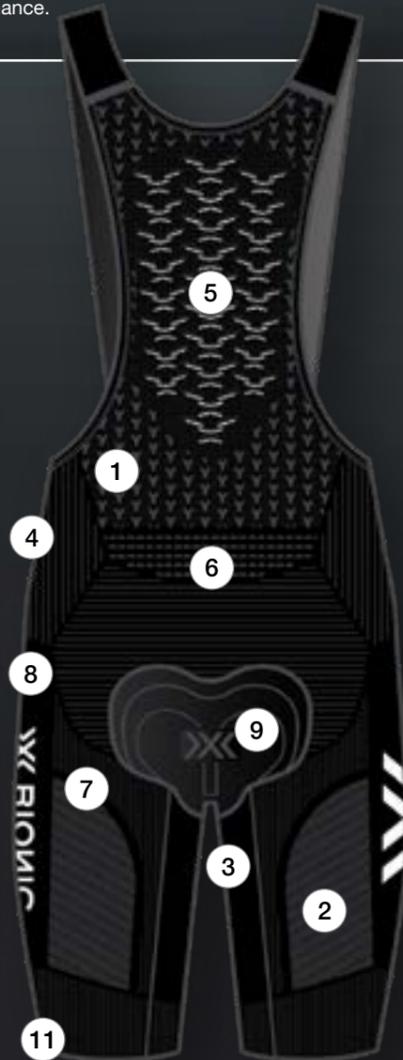
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+ 100% SWISS ENGINEERED

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TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

MEN CYCLING BIB SHORTS PADDED

TW-BB00S21M

COMPOSITION
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6% Polypropylen
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Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.

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STABILIZED LINING
For lifetime durability.

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WOMEN CYCLING ZIP SHIRT SH SL

TW-BT00S21W

COMPOSITION
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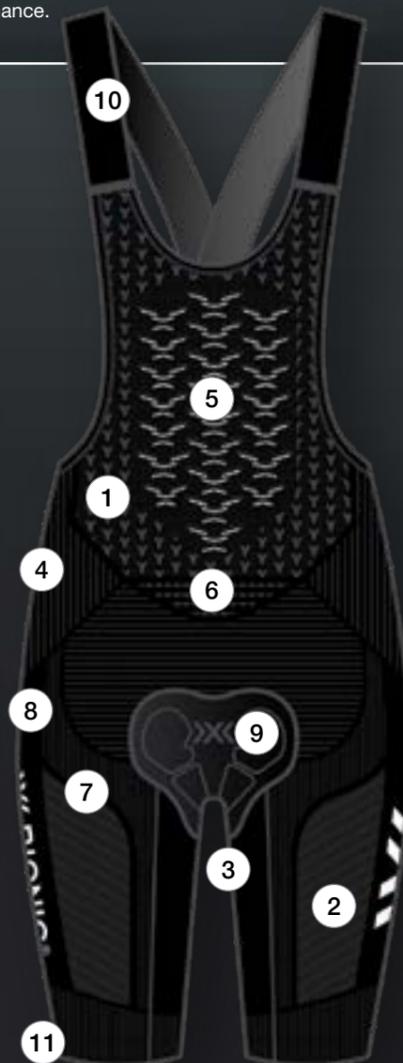
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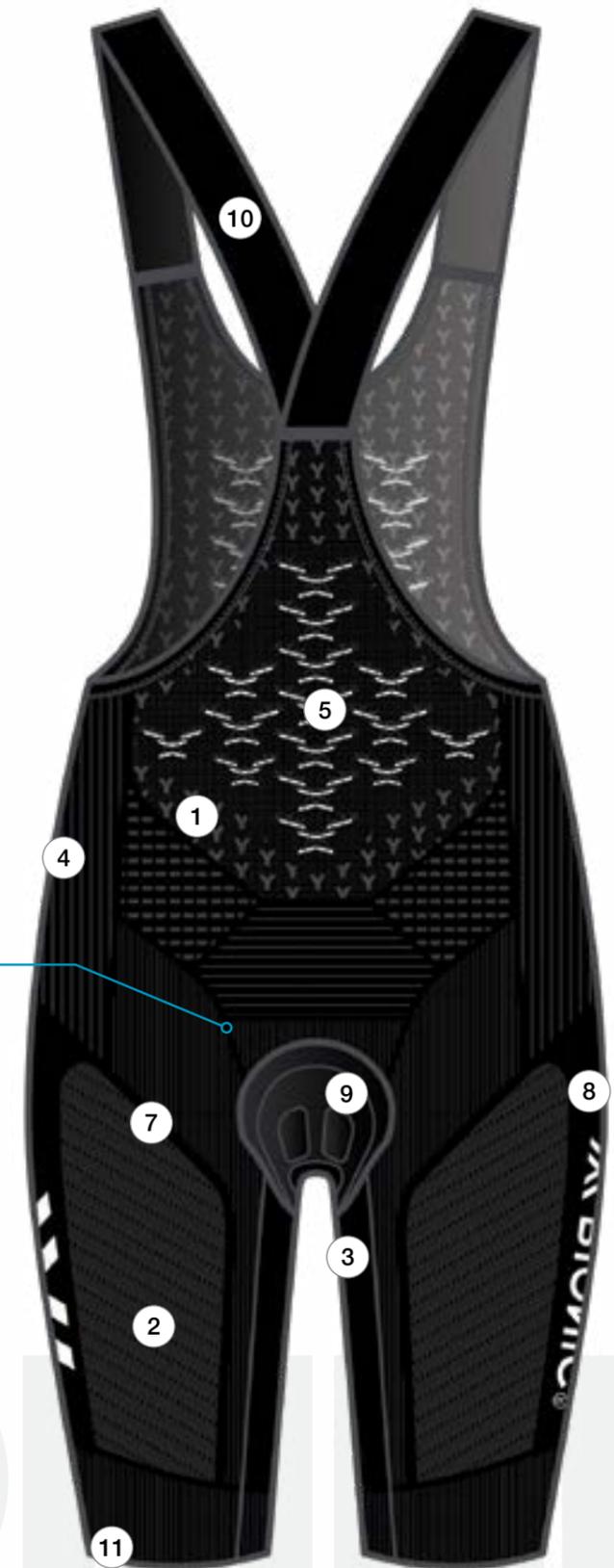
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STABILIZED LINING

For lifetime durability.

WINDPROOF PROTECTION



CYCLING ZIP SHIRT SH SL Short Sleeves
TW-BT00S21M

SIZES: XS S M L XL XXL



A024
TWYCE BLUE/
DOLOMITE GREY
- NEW -

B002
OPAL BLACK/
ARCTIC WHITE
- NEW -

CYCLING BIB SHORTS PADDED
TW-BB00S21M

SIZES: XS S M L XL XXL



B002
OPAL BLACK/
ARCTIC WHITE
- NEW -

NOTES

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CYCLING ZIP SHIRT SH SL - Short Sleeves
TW-BT00S21W

SIZES: XS S M L XL XXL



B002
OPAL BLACK /
ARCTIC WHITE
- NEW -

V004
PLUMB /
ARCTIC WHITE
- NEW -

CYCLING SHORTS PADDED
TW-BB00S21W

SIZES: XS S M L XL XXL



B002
OPAL BLACK/
ARCTIC WHITE
- NEW -

NOTES

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The Air-Conditioning Channels® are framed in Air Guides® so that they can also work effectively under a second layer. The evaporation rate is increased.

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10 BACK POCKETS

Secure storage with quick access.

11 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY®

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

TWYCE® 4.0

+ 100% SWISS ENGINEERED

X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

MEN CYCLING ZIP SHIRT SH SL

2019 STYLE TW-BT00S19M

COMPOSITION
90% Polyamide
7% Polypropylen
3% Elastane



MEN

MEN CYCLING BIB SHORTS PADDED

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88% Polyamide
6% Polypropylen
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Hydrophilic and hydrophobic fibres collect excess sweat from the ThermoSyphon® System and allow it to evaporate over a broad area to provide extra cooling.

2 X-BIONIC® 4.0 PARTIALKOMPRESSION®
A new benchmark in compression technology. X-BIONIC® 4.0 Partialkompression® utilises the advantages of compression without neglecting cooling.
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4 ISO-PAD
Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why Iso-Pads over the hipbones retain body heat that is necessary to guarantee interior organ functionality.

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In the body, varying amounts of heat are produced in different areas, with particularly high temperatures on the chest and the back regions, caused by the need for protecting internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.
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The soft and wide straps guarantee secure support and provide extra comfort.

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For lifetime durability.

WINDPROOF PROTECTION



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2 200 % ENLARGED 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The precisely defined position on the chest and back offers more cooling power, according to tests and experience. The 3D Bionic Sphere® System with ThermoSyphon® Technology on the chest and back, stops the unpleasant dampness, the feeling of overheating, and the risk of chilling during rest and recovery. The cooling function only kicks in when your body begins to build up body heat and sweat. No sweat means the insulating effect takes over.

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WOMEN CYCLING ZIP SHIRT SH SL

2019 STYLE TW-BT00S19W

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3 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

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WOMEN CYCLING SHORTS PADDED

2019 STYLE TW-B500S19W

COMPOSITION
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6% Polypropylen
6% Elastane



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WOMEN CYCLING BIB SHORTS PADDED

2019 STYLE TW-BB00S19w

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WINDPROOF PROTECTION



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EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

CYCLING ZIP SHIRT SH SL Short Sleeves
TW-BT00S19M

SIZES: XS S M L XL XXL



A022 TWYCE BLUE / OPAL BLACK - EOL -
 B002 OPAL BLACK / ARCTIC WHITE - EOL -
 E015 PINE GREEN / AMAZONAS GREEN - EOL -
 G021 DOLOMITE GREY / DARK RUBY - EOL -

CYCLING SHORTS PADDED
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B012 OPAL BLACK / WHITE - EOL -
 B029 CHARCOAL / DARK RUBY - EOL -
 B002 OPAL BLACK / ARCTIC WHITE - EOL -

NOTES

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CYCLING SHIRT SH SL - Short Sleeves
TW-BT00S19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK / ARCTIC WHITE - EOL -
 E015 PINE GREEN / AMAZONAS GREEN - EOL -
 P031 TWYCE PURPLE / ARCTIC WHITE - EOL -
 G014 DOLOMITE GREY / PHYTON YELLOW - EOL -

CYCLING SHORTS PADDED
TW-B500S19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK / ARCTIC WHITE - EOL -

CYCLING SHORTS PADDED
TW-BB00S19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK / ARCTIC WHITE - EOL -
 B003 OPAL BLACK / DOLOMITE GREY - EOL -

NOTES

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EFFEKTOR®

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ENERGIZER®

THE TRICK[®] 4.0

+ 100% SWISS ENGINEERED

EARLIER COOLING, ENHANCED PERFORMANCE

Shorten the warm-up time in competitions and at time-limited training sessions. THE TRICK[®] 4.0 tricks your brain: A special weave along the spinal column simulates overheating. The brain interprets the signals as a sign that the entire body is overheating. It kicks in sweat production although the body in fact is still near its optimal performance temperature. The result: Even before the body overheats, it's cooled by sweat effectively and more quickly.



turn sweat into energy[®]
CYCLING

X-BIONIC[®]

TWYCE[®]

THE TRICK[®]

EFFEKTOR[®]

FENNEC[®]

INVENT[®]

ENERGIZER[®]

THE TRICK[®]

CYCLING

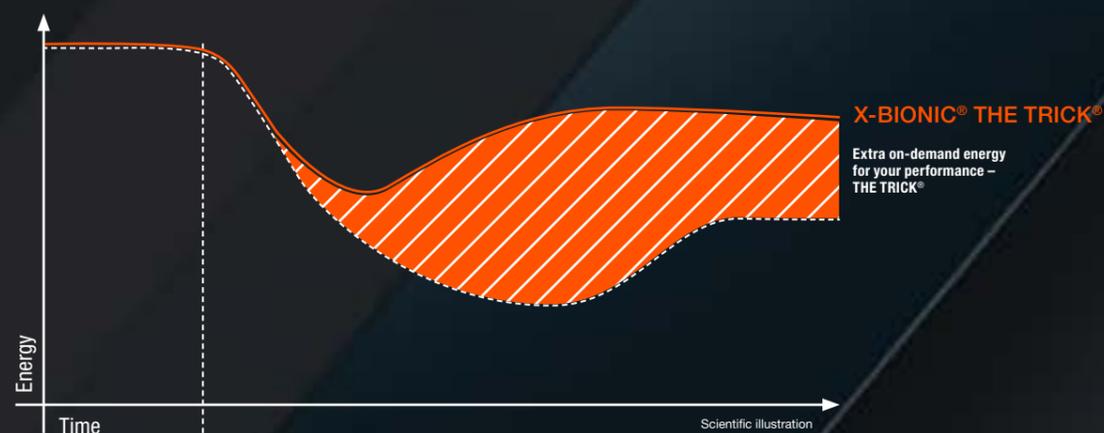
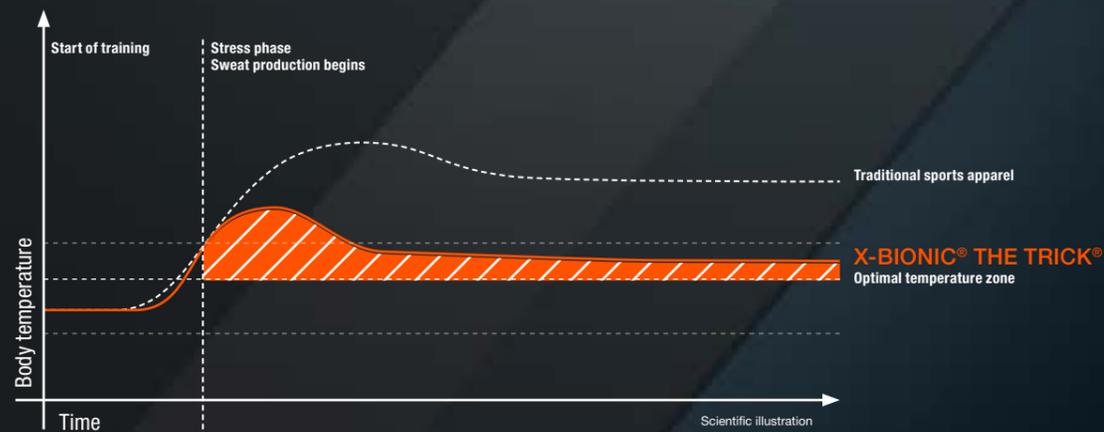
X-BIONIC® THE TRICK® 4.0

High-performance cars have sophisticated cooling systems. These prevent power-sapping, overheating and enable the engine to deliver extreme performance. The same thing applies to elite athletes. Thanks to THE TRICK® 4.0.

Patented, innovative technologies straighten performance curves. The cooling effect cuts in before strength is sapped, ensuring that more energy is available for your performance.

Patented in 24 Countries: AT, BE, CH, DE, DK, ES, FI, FR, GB, IS, IT, LU, NL, PL, SE, SI, TR, AU, BR, CA, CN, IN, MX, RU

➔ EARLIER COOLING = ENHANCED PERFORMANCE with THE TRICK® 4.0 from X-BIONIC®



Tricks your brain:

THE TRICK® 4.0 switches your body into cooling mode earlier, your performance improves from the start.

THE PROBLEM:

Normal thermoregulation during athletic activity follows defined rules: when the body temperature during activity climbs over a certain point, sensors in the back notify the brain via the spinal cord of the need for cooling. Only then is sweat produced to cool the already overheated body.

THE SOLUTION:

With THE TRICK® 4.0, the developers at X-BIONIC® have found a new and superior way to thermoregulate. Along an insulation zone on the spine, an overheating of the body is simulated, and the brain kicks in with early sweat production. Even before the body overheats, it's cooled by sweat effectively and more quickly. The strain on physical systems is relieved.

SPECIAL STRUCTURES ALONG THE SPINE TRICK THE HEAT RECEPTORS:

1 SPINE INSULATION ZONE

Special knitted structures placed along the spine simulate the entire body warming up. In addition, it creates a localised zone of warmth where the body temperature climbs distinctly higher than on the rest of the body.

2 SENSORS

Sensors along the spinal cord: within the zone of warmth, they register a strong warming trend. The sensors transmit their observation along the spinal cord to the brain.

3 SIGNALS

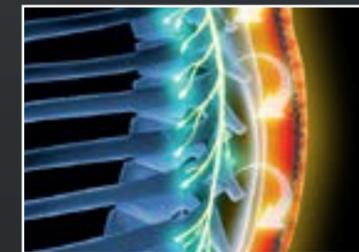
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4 EARLIER ONSET OF COOLING

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Spine Insulation Zone
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Sensors
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REACTION:
Earlier cooling

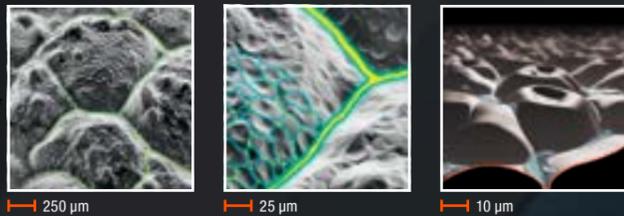
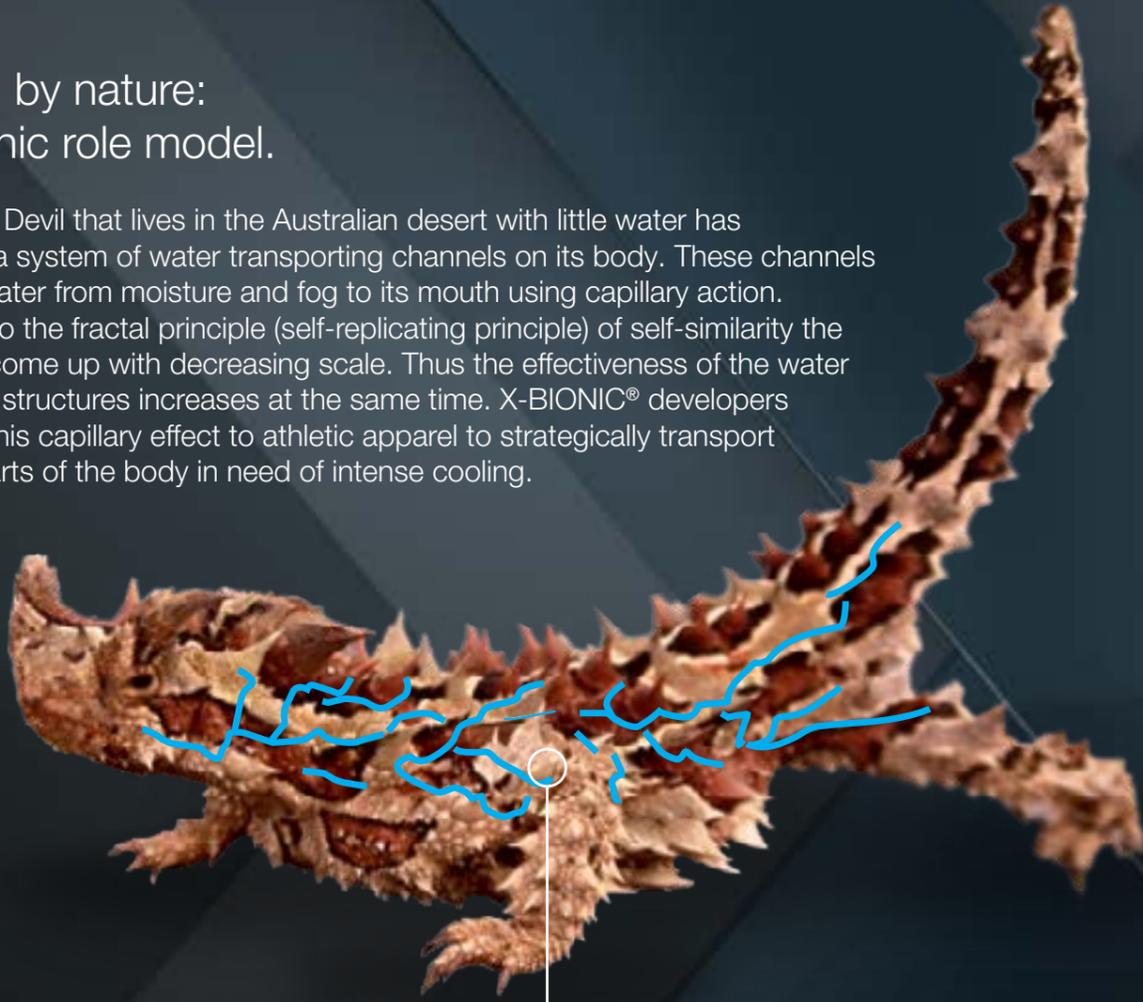
RESULT:
Enhanced performance



THORNY DEVIL TECHNOLOGY

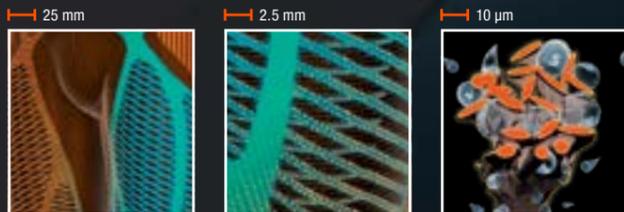
Inspired by nature:
The bionic role model.

The Thorny Devil that lives in the Australian desert with little water has developed a system of water transporting channels on its body. These channels transport water from moisture and fog to its mouth using capillary action. According to the fractal principle (self-replicating principle) of self-similarity the structures come up with decreasing scale. Thus the effectiveness of the water conducting structures increases at the same time. X-BIONIC® developers translated this capillary effect to athletic apparel to strategically transport sweat to parts of the body in need of intense cooling.



SKIN OF THE THORNY DEVIL
The honeycomb-like structure renders the surface extremely hydrophilic. The water is sucked into small inter scalar channels which transport the water by capillary forces.

*Philipp Comanns, Christian Effertz, Florian Hischen, Konrad Staudt, Wolfgang Böhme and Werner Baumgartner. 2011. "Moisture harvesting and water transport through specialized micro-structures on the integument of lizards." Beilstein J. Nanotechnol 2, 204-214.



SURFACE OF X-BIONIC® HYDROPORT YARN
Moisture-conducting HydroPort yarn imitates the fractal principle of the Thorny Devil using network of small channels.

1 SWEAT COLLECTOR

Sweat Collectors are placed where the body accumulates the most sweat. This is where sweat is soaked up like a sponge and moved gradually through the thickened structures of the HydroPort yarn to Sweat Transporters. With this network of transporting yarn, sweat is shuttled to the Sweat Distributor zone.

2 SWEAT TRANSPORTER

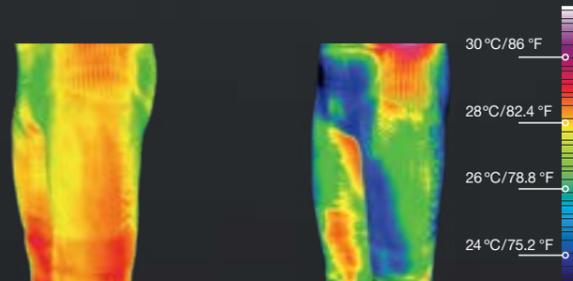
Like a network of tiny canals, the sweat-transporting HydroPort yarn wraps around the body. Sweat on the abdomen and back is continuously guided to the Sweat Distributors on the upper thighs. Sweat Transporters ensure that sweat can evaporate there, exactly where it can have the largest possible cooling effect on overheated muscles.

3 SWEAT DISTRIBUTOR WITH PARTIALKOMPRESSION®

The design of the Sweat Distributors takes its lead from the anatomy of the muscles. Its construction combines X-BIONIC® Partialkompression® and knit-in ridges that cool off muscles. Guided by Sweat Transporters, sweat is gathered over a broad area in the Sweat Distributors, which are at-the-ready as a cooling mechanism. If heat is produced, evaporation immediately counteracts it. Sweat Distributors provide additional cooling for heat-intensive muscle areas.

The scientific proof:

The Thorny Devil Technology guides sweat directly to heat-intensive muscle areas. There, it evaporates for an optimal cooling effect.



BEFORE: without the use of Thorny Devil Technology

AFTER: with Thorny Devil Technology the musculature is cooled more effectively and keeps performance longer.



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

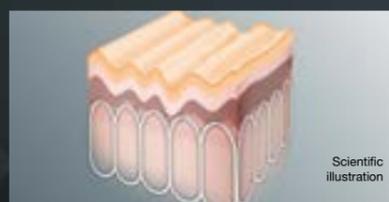
ENERGIZER®

COHESION-WRAP® TECHNOLOGY

The first technology that shapes up both your performance and your physique.



MEN'S CONNECTIVE TISSUE
Stabile webbing – higher stability, less risk for cellulite.



WOMEN'S CONNECTIVE TISSUE
Weak structure – less stability, higher risk for cellulite.

The COHESION-WRAP® Technology was developed especially to support women athletes. X-BIONIC® PARTIALKOMPRESSION® ensures optimal cooling of the skin with its unique surface structure. With it, blood can continue to circulate and sweat can effectively evaporate. The body saves energy, resulting in more power for athletic activity. In addition, the COHESION-WRAP® Technology targets sensitive areas of the female anatomy. The innovative X-BIONIC® COHESION-WRAP® Technology actively counteracts this effect. It places targeted pressure on the areas in your thighs, buttocks, hips and arms where connective tissues are weaker due to their structure and, thus, are inclined to form dimples and cellulite. This also decreases the build-up of lactic acid.

In addition, the one-of-a-kind X-BIONIC® PARTIALKOMPRESSION® with its unique surface structure ensures optimal cooling at the skin. Blood can circulate close to the surface, and sweat can evaporate effectively. The body saves energy, leaving more for your sport – Sweat is transformed into energy. The dermis of women is more elastic and weaker than that of men. Many adipose cells, which have elastic properties and take up increased acids, are found in subcutaneous tissue. Collagen fibres, which provide skin strength and elasticity, run parallel to each other in women, while in men the fibres form a type of stabile webbing in the skin. That's why growing fat cells in the thighs, buttocks, hips and arms can push between and through collagen fibres to cause a dimpling effect.

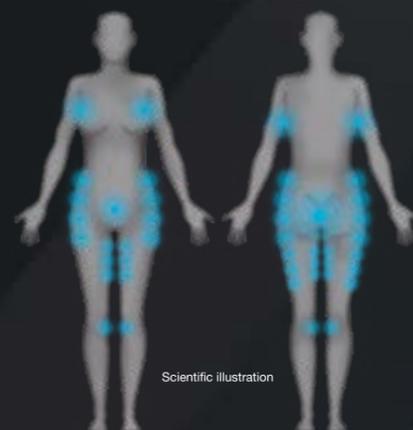
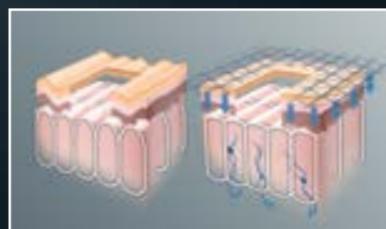
X-BIONIC® COHESION-WRAP® Technology targets the female anatomy. Its compression and special zoned structure mean less lactate can penetrate tissues.

COHESION-WRAP-TECHNOLOGY

Cohesion-Wrap-Technology with its Vicarious Connective Tissue supports and stabilises areas of the female body with weak connective tissue.

- Stabilises and supports connective tissue
- Less vibration
- Improved metabolism
- Decreased skin dimpling

Vicarious Connective Tissue offers support to connective tissue. That provides from the outside what female connective tissue is lacking on the inside: stability. Its compression and special zoned structure mean less lactate can penetrate tissues. That can inhibit the buildup of dimpling.



• Zones with weak connective tissue on the female body

NEURAL-RESPONSE-EFFECT

Triggers peak performance from your neurons. Sporting success demands great relationships. Especially between brain and muscle.

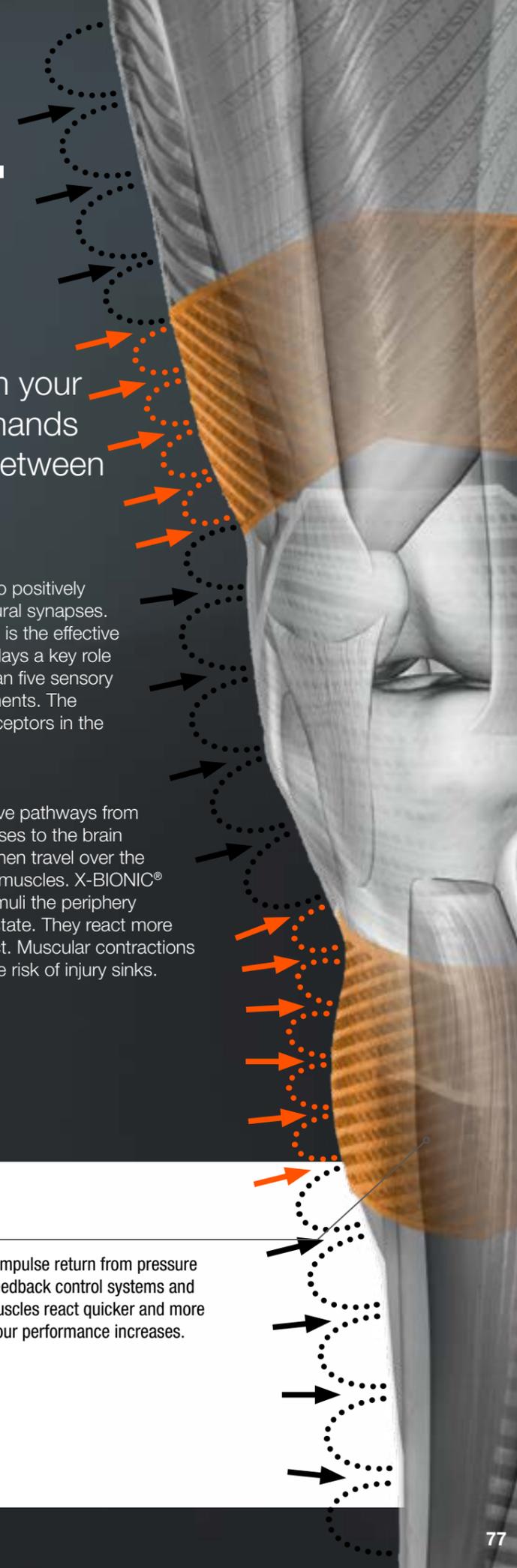
X-BIONIC® PARTIALKOMPRESSION® is in the position to positively influence your neuro-muscular system by stimulating neural synapses. It can also improve your sensory motor regulation, which is the effective interaction of afferent and efferent nerve impulses, and plays a key role in the reorganisation of muscular programming. More than five sensory motor feedback systems control all of the body's movements. The systems react to outside stimuli through mechanical receptors in the skin – stimuli such as that from the targeted placement of the X-BIONIC® PARTIALKOMPRESSION®.

Afferent nerve impulses, which run along continuous nerve pathways from the periphery to the central nervous system, direct impulses to the brain and the spine where they are processed. The impulses then travel over the efferent nerve pathways and motor neurons back to the muscles. X-BIONIC® Technology capitalises on this system. With constant stimuli the periphery receptors are simultaneously put in a kind of preloaded state. They react more quickly to subsequent stimuli the Neural-Response-Effect. Muscular contractions and reactions increase, coordination is improved, and the risk of injury sinks.

PRESSURE MAKES FOR PERFECT MOVEMENT.

Muscular stimulus, sensory transmission, signal processing, and impulse return from pressure makes for perfect movement: X-BIONIC® utilises sensory motor feedback control systems and achieves the desired neural response effect with compression. Muscles react quicker and more strongly to movement impulses transmitted from the brain, and your performance increases.

- Quicker reaction time
- Stronger muscle contractions
- Better coordination
- Minimised risk of injury
- Decreased fatigue



ELITE 2000TX

BIKE PAD FOR WOMEN

Gel and foam pads with an even knit structure at the front for this delicate area

- 1 ERGONOMIC PUBICPAD**
Protects sensitive areas thanks to the highly breathable, well-cushioned bike pad.
- 2 MEMORY FOAM PAD ON THE PUBIC BONE**
Reduces pressure points in this delicate zone.
- 3 100% ELASTICITY OF THE PAD**
Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.
- 4 THE BACTERIOSTATIC INNER SURFACE**
The 3D knit structure in Skin NODOR® guarantees optimal seat comfort.
- 5 THE COMBINATION OF 3D KNIT STRUCTURE AND FOAM**
Provides maximum elasticity and ideal fit.
- 6 CHANNELS IN THE FOAM**
Ensure optimised moisture management inside the pad.
- 7 SEAMLESS 3D KNIT PARTS**
Allow a perfect combination of complex functional surface structures whilst avoiding the risk of skin irritation.
- 8 POWERFULLY SHOCK-ABSORBING PADS**
In the area of the ischium, the pads offer effective shock absorption and proportionate distribution of pressure.
- 9 THIN LAYER**
Ensure optimised moisture management inside the pad.
- 10 STABILISED LINING**
For lifetime durability.
- 11 FOAM PAD WITH AIR DUCTS**
Arranged for optimal moisture management.



ELITE 2000FX

BIKE PAD FOR MEN

Gel pads with an even knit structure at the front for this delicate area

- 1 ERGONOMIC PUBICPAD**
Protects sensitive areas thanks to the highly breathable, well-cushioned bike pad.
- 2 100% ELASTICITY OF THE PAD**
Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.
- 3 THE BACTERIOSTATIC INNER SURFACE**
The 3D knit structure in Skin NODOR® guarantees optimal seat comfort.
- 4 THE COMBINATION OF 3D KNIT STRUCTURE AND FOAM**
Provides maximum elasticity and ideal fit.
- 5 CHANNELS IN THE FOAM**
Ensure optimised moisture management inside the pad.
- 6 LONGITUDINAL SECTIONS AND CROSS SECTIONS**
Make the seat pad extremely adaptable.
- 7 SEAMLESS 3D KNIT PARTS**
Allow a perfect combination of complex functional surface structures whilst avoiding the risk of skin irritation.
- 8 THIN LAYER**
Ensure optimised moisture management inside the pad.
- 9 STABILISED LINING**
For lifetime durability.
- 10 FOAM PAD WITH AIR DUCTS**
Arranged for optimal moisture management.
- 11 3D KNIT STRUCTURE**
- 12 WINDPROOF PROTECTION**



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Special knit structure along the spinal column stimulates the overheating of the body. As a result, the brain triggers sweat production long before overheating can occur. Early sweating permits more effective cooling that sustains energy reserves.

Patented in 24 countries: AT, BE, CH, DE, DK, ES, FI, FR, GB, IS, IT, LU, NL, PL, SE, SI, TR, AU, BR, CA, CN, IN, MX, RU

2 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research.

The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 AIRCOMPLEX-ZONE AT THE UPPER ABDOMEN

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

5 FLEXOR ARM CUFF

Asymmetrical arm cuff to avoid unpleasant sleeve movement.

6 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

7 EXPANSION FLEX ZONE AT THE SHOULDER JOINT

Flexibility of the Expansion Flex Zone and the stretch of the yarn enable unrestricted movement. In addition, the Stretch Ribs allow a problem-free running position in the shoulder area without pulling up the shirt. That guarantees all of the different technologies stay where they belong to optimally achieve their intended function.

8 DOLPHIN RIDER NECK

Ergonomically optimized and streamlined collar, based on typical position during cycling, to avoid helmet-collar-collisions.

9 STABILITY ZONE

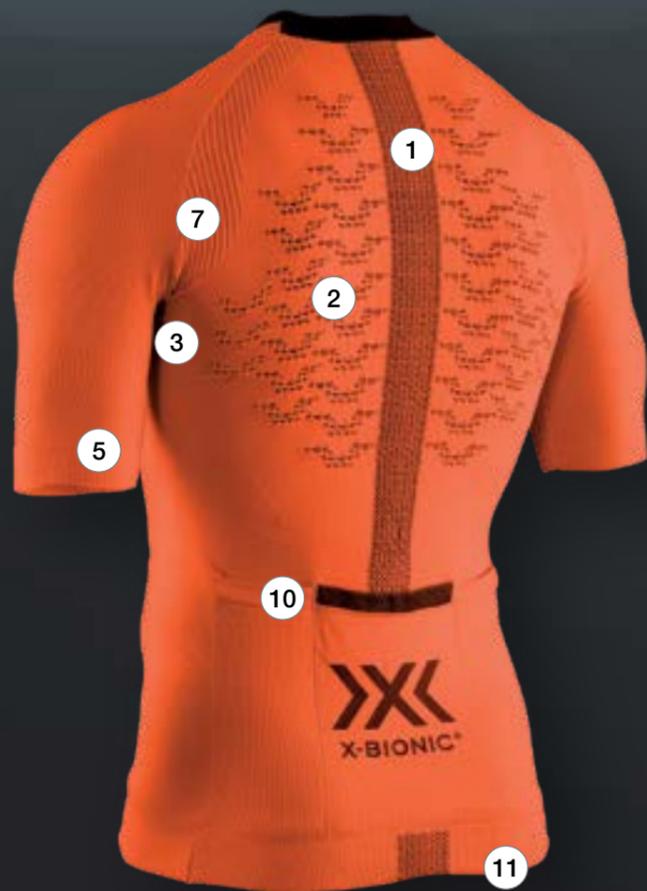
The Stability Zone keeps the shirt in the right place and prevents uncomfortable riding up during dynamic torso movement.

10 BACK POCKETS

Secure storage with quick access.

11 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY®

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

MEN CYCLING ZIP SHIRT SH SL

TR-BT00S19M

COMPOSITION
91% Polyamide
6% Polypropylen
3% Elastane



MEN

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7 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

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MEN CYCLING ZIP SHIRT LG SL

TR-BT16W19M

COMPOSITION
91% Polyamide
6% Polypropylen
3% Elastane



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THORNY DEVIL TECHNOLOGY

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Where the body accumulates the most sweat, Sweat Collectors soak up the sweat and move it gradually through the thickened structures of the HydroPort yarn to Sweat Transporters.

3 SWEAT TRANSPORTER

Wrapping around the body, this system continuously transports excess sweat via channels to the zones where it can have the largest possible cooling effect on overheated muscles.

4 SWEAT DISTRIBUTOR WITH PARTIALKOMPRESSION®

The combination of X-BIONIC® Partialkompression® and knitted in ridges collects excess sweat and allows it to evaporate over a broad area to provide extra cooling for heat-intensive muscle areas.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

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6 ELITE 2000 TX BIKE PAD

Visco-elastic gel pads offer coordinated and effective shock absorption and pressure distribution. A special 3D-knit fabrication lets air circulate across the surface of the skin. Sweat is wicked away quickly from the skin, thus reducing the danger of saddle sores.

Patented in 30 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, HK, JP, KR, MX, NZ, RU, US, ZA

7 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

8 ELASTIC STRAPS

The soft and wide straps guarantee secure support and provide extra comfort.

9 SWEAT TRAPS® AT THE TAILBONE

The Sweat Traps® at the tailbone are targeted specifically at catching sweat flowing toward the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

10 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

11 NEURAL-RESPONSE-BANDAGE

The Neural-Response-Bandage exerts targeted pressure on the muscle attachment, prepares the receptors for action and improves the work of the muscles.

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The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

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100% ELASTIC PAD
Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.

BACTERIOSTATIC INNER SURFACE
The 3D knit structure in Skin NODOR® guarantees optimal seat comfort.

STABILIZED LINING
For lifetime durability.

WINDPROOF PROTECTION

MEN CYCLING BIB SHORTS PADDED

TR-BB00S19M

COMPOSITION
88% Polyamide
6% Elastane
6% Polypropylen



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The Neural-Response-Bandage exerts targeted pressure on the muscle attachment, prepares the receptors for action and improves the work of the muscles.

12 EXPANSIONKNEE®

Protects from the cold, even when the knee is bent.

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13 AIRCONDITIONINGSPOT

The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

14 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

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WINDPROOF PROTECTION

THE TRICK® 4.0

+ 100% SWISS ENGINEERED

MEN CYCLING BIB PANTS

TR-BB05W19M

COMPOSITION
80% Polyamide
12% Polypropylen
8% Elastane



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FENNEC®

INVENT®

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37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

WOMEN CYCLING ZIP SHIRT SH SL

TR-BT00S19W

COMPOSITION
91% Polyamide
6% Polypropylen
3% Elastane



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

WOMEN

1 THE TRICK®

Special knit structure along the spinal column stimulates the overheating of the body. As a result, the brain triggers sweat production long before overheating can occur. Early sweating permits more effective cooling that sustains energy reserves.

Patented in 24 countries: AT, BE, CH, DE, DK, ES, FI, FR, GB, IS, IT, LU, NL, PL, SE, SI, TR, AU, BR, CA, CN, IN, MX, RU

2 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research.

The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

5 EXPANSION FLEX ZONE AT THE SHOULDER JOINT

Flexibility of the Expansion Flex Zone and the stretch of the yarn enable unrestricted movement. In addition, the Stretch Ribs allow a problem-free running position in the shoulder area without pulling up the shirt. That guarantees all of the different technologies stay where they belong to optimally achieve their intended function.

6 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

7 DOLPHIN RIDER NECK

Ergonomically optimized and streamlined collar, based on typical position during cycling, to avoid helmet-collar-collisions.

8 STABILITY ZONE

The Stability Zone keeps the shirt in the right place and prevents uncomfortable riding up during dynamic torso movement.

9 BACK POCKETS

Secure storage with quick access.

10 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY®

H-DRY TECHNOLOGY

SKIN NODOR®

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WOMEN CYCLING ZIP SHIRT LG SL

TR-BT16W19W

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THORNY DEVIL TECHNOLOGY

2 SWEAT COLLECTOR

Where the body accumulates the most sweat, Sweat Collectors soak up the sweat and move it gradually through the thickened structures of the HydroPort yarn to Sweat Transporters.

3 SWEAT TRANSPORTER

Wrapping around the body, this system continuously transports excess sweat via channels to the zones where it can have the largest possible cooling effect on overheated muscles.

4 SWEAT DISTRIBUTOR WITH PARTIALKOMPRESSION®

The combination of X-BIONIC® Partialkompression® and knitted in ridges collects excess sweat and allows it to evaporate over a broad area to provide extra cooling for heat-intensive muscle areas.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

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Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

6 ELITE 2000 TX BIKE PAD

Visco-elastic gel pads offer coordinated and effective shock absorption and pressure distribution. A special 3D-knit fabrication lets air circulate across the surface of the skin. Sweat is wicked away quickly from the skin, thus reducing the danger of saddle sores.

Patented in 30 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, HK, JP, KR, MX, NZ, RU, US, ZA

7 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

8 COHESION WRAP® TECHNOLOGY

Cohesion Wrap with its vicarious connective tissue supports and stabilises areas of the female body with weak connective tissue.

- Stabilises and supports connective tissue
- Improved metabolism
- Supports lymphatic flow
- Decreased skin dimpling

9 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

10 NEURAL-RESPONSE-BANDAGE

The Neural-Response-Bandage exerts targeted pressure on the muscle attachment, prepares the receptors for action and improves the work of the muscles.

11 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

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WOMEN CYCLING SHORTS PADDED

TR-B500S19W

COMPOSITION
88% Polyamide
6% Polypropylen
6% Elastane



ELITE 2000TX BIKEPAD

100% ELASTIC PAD
Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.

BACTERIOSTATIC INNER SURFACE
The 3D knit structure in Skin NODOR® guarantees optimal seat comfort.

STABILIZED LINING
For lifetime durability.

WINDPROOF PROTECTION



WOMEN

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7 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

8 ELASTIC STRAPS

The soft and wide straps guarantee secure support and provide extra comfort.

9 COHESION WRAP® TECHNOLOGY

Cohesion Wrap with its vicarious connective tissue supports and stabilises areas of the female body with weak connective tissue.

- Stabilises and supports connective tissue
- Improved metabolism
- Supports lymphatic flow
- Decreased skin dimpling

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The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

11 NEURAL-RESPONSE-BANDAGE

The Neural-Response-Bandage exerts targeted pressure on the muscle attachment, prepares the receptors for action and improves the work of the muscles.

12 EXPANSIONKNEE®

Protects from the cold, even when the knee is bent.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

13 AIRCONDITIONINGSPOT

The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

14 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

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ELITE 2000TX BIKEPAD

100 % ELASTIC PAD

Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.

BACTERIOSTATIC INNER SURFACE

The 3D knit structure in Skin NODOR® guarantees optimal seat comfort.

STABILIZED LINING

For lifetime durability.

WINDPROOF PROTECTION

THE TRICK® 4.0

+ 100% SWISS ENGINEERED

WOMEN CYCLING BIB PANTS

TR-BB05W19W

COMPOSITION
80% Polyamide
12% Polypropylen
8% Elastane



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

CYCLING ZIP SHIRT SH SL Short Sleeves
TR-BT00S19M

SIZES: XS S M L XL XXL



B002 OPAL BLACK/ ARCTIC WHITE - C/O -
 0013 TRICK ORANGE/ ANTHRACITE - C/O -
 A211 BLUESTONE/ PHYTON YELLOW - C/O -
 E022 AMAZONAS GREEN/ OPAL BLACK - EOL -
 G014 DOLOMITE GREY/ PHYTON YELLOW - EOL -
 0011 TRICK ORANGE/ OPAL BLACK - EOL -

CYCLING ZIP SHIRT LG SL Long Sleeves
TR-BT16W19M

SIZES: XS S M L XL XXL



0012 TRICK ORANGE/ BLACK - C/O -

CYCLING BIB SHORTS PADDED
TR-BB00S19M

SIZES: XS S M L XL XXL



B002 OPAL BLACK/ ARCTIC WHITE - C/O -
 G085 CHARCOAL/ ORANGE - C/O -
 B006 OPAL BLACK/ SUNSET ORANGE - EOL -
 B036 BLACK/ CHARCOAL - C/O -

NOTES

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CYCLING ZIP SHIRT SH SL Short Sleeves
TR-BT00S19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK/ ARCTIC WHITE - C/O -
 W019 ARCTIC WHITE/ AQUA - C/O -
 P028 BRIGHT LAVENDER/ WHITE - C/O -
 E015 PINE GREEN/ AMAZONAS GREEN - EOL -
 P022 MAGNOLIA PURPLE/ OPAL BLACK - EOL -

CYCLING ZIP SHIRT LG SL Short Sleeves
TR-BT16W19W

SIZES: XS S M L XL XXL



E015 PINE GREEN/ AMAZONAS GREEN - C/O -

CYCLING SHORTS PADDED
TR-B500S19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK/ ARCTIC WHITE - C/O -
 B008 OPAL BLACK/ MULTI - EOL -

NOTES

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CYCLING PANTS PADDED
TR-BB05W19W

SIZES: XS S M L XL XXL



B036 BLACK/ CHARCOAL - C/O -

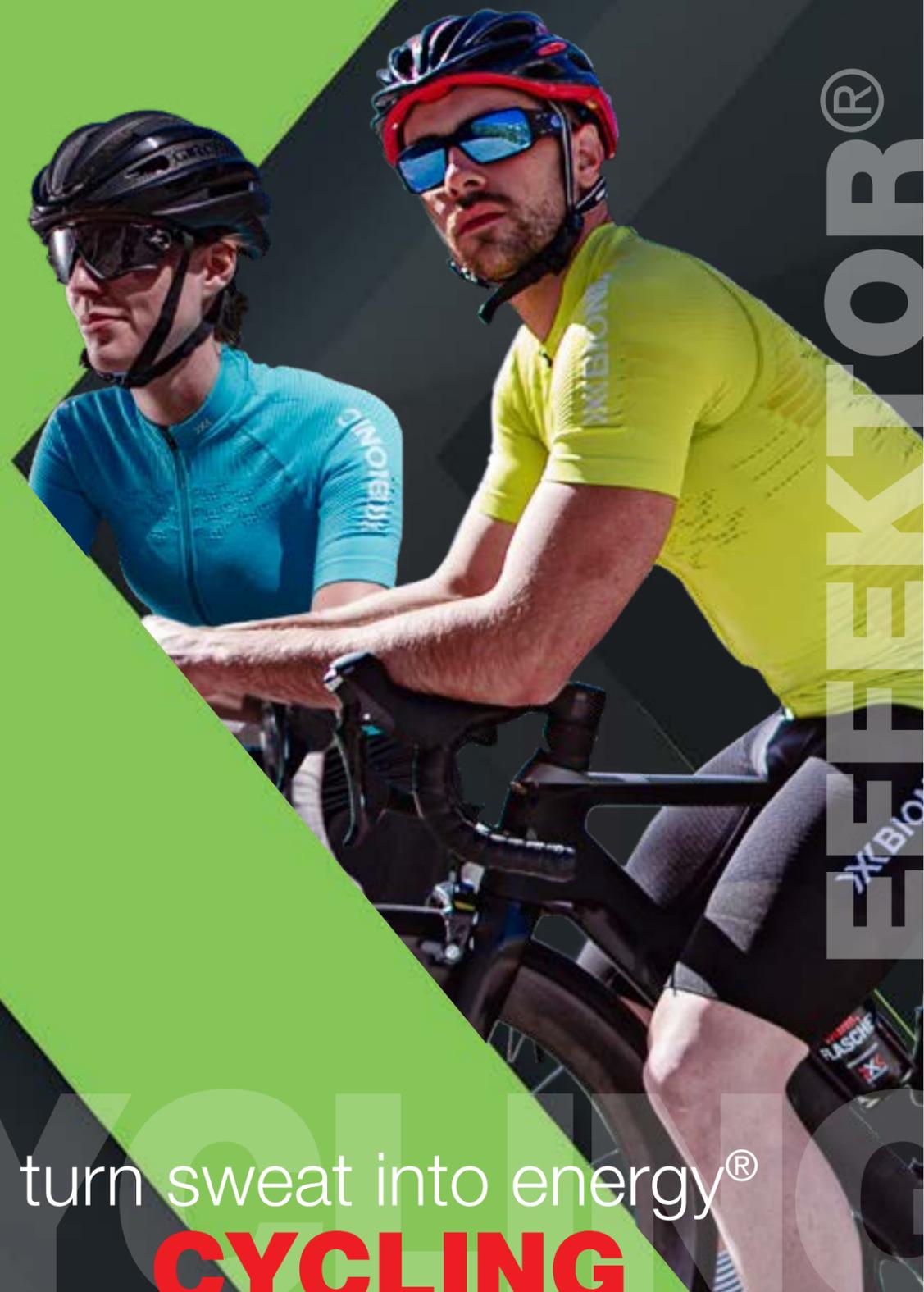
EFFEKTOR® 4.0

+ 100% SWISS ENGINEERED

UNLEASH YOUR BEST COMPETITION PERFORMANCE

Designed for hot climates, EFFEKTOR® 4.0 has been proven to optimize muscle coordination, body temperature control, heart rate, performance duration, recovery time, lactation and nerve stimulation transmission.

EFFEKTOR® 4.0 is sophisticated hardware with patented technologies for maximum performance.



turn sweat into energy®
CYCLING

X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

EFFEKTOR®

CYCLING

EFFECTS

+10% PERFORMANCE TIME	+3%
-7% LACTATE FORMATION	-1%
-50% HEAT GENERATION	-20%
+20% FASTER REGENERATION	+12%
-2,4 HEARTBEATS PER MINUTE	-0.4

Scientifically proven by CERISM Research Center for Bioengineering and Human Movement, University of Verona - Italy (2011).
 *Compared to predecessor model.
 All data are based on X-BIONIC®'s own experience.

-7%
 MINIMAL LACTATE FORMATION

Maximal blood lactate is reduced when wearing compression apparel, which can be tied to an improved venous return.

(-1%)

-2.4
 LOWEST HEART RATE

The stroke volume (SV) is increased when wearing X-BIONIC® Partialkompression®, and the subsequent reduction in heart rate results in a general increase of physical performance.

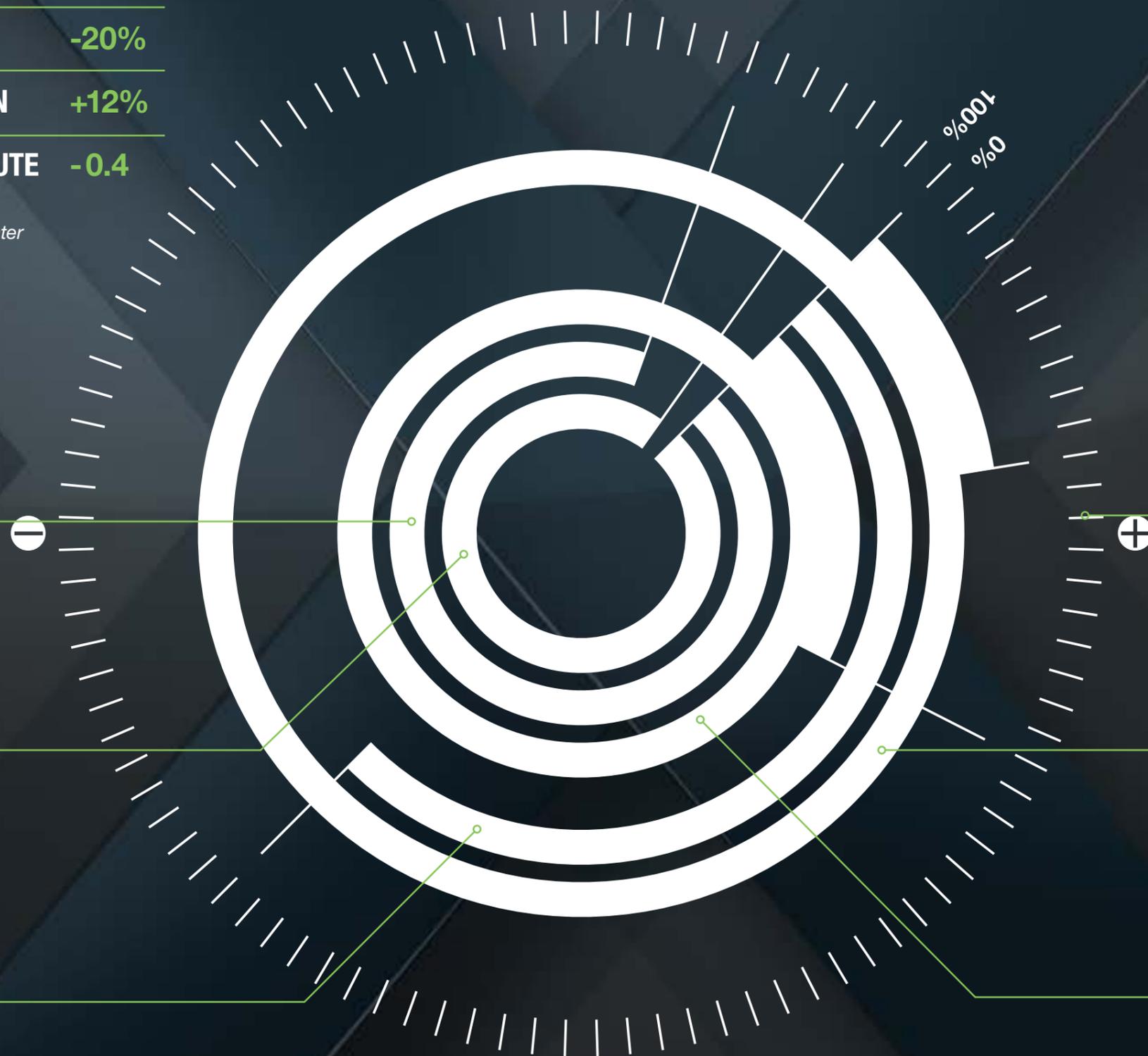
(-0.4*)

-50%
 REDUCED BUILDUP OF HEAT

The X-BIONIC® Partialkompression® applies targeted pressure on 1-mm wide ridges. Between them are compression-free zones without mechanically applied pressure, which could have a negative effect on blood circulation to the skin. This allows the blood to fully perform its cooling function.

(-20%)

EFFEKTOR TECHNOLOGY



100%
 MAXIMUM PRECISION

Asymmetrical compression provides for an increase in precision. Indispensable in sports like tennis, badminton, squash, table tennis or golf with one-sided stresses.

+10%
 LONGEST-EVER PERFORMANCE

The use of compression in sports positively affects performance ability. Training, competition and recovery – medical as well as physiologic studies show advantages of modern compression apparel.

(+3%)

+20%
 QUICKEST RECOVERY

Compression improves the flow of oxygen to the musculature. Result: quicker regeneration and fewer muscular cramps.

(+12%)

EFFECTS

PERFORMANCE

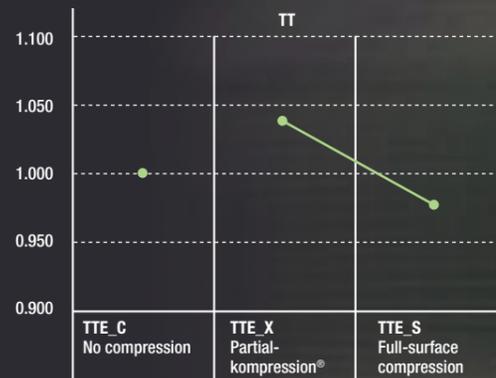
The air gets thinner at the front.
EXCEPT FOR YOURS.

10% HIGHER PERFORMANCE WITH X-BIONIC®
PARTIALKOMPRESSION® IN COMPARISON TO FULL SURFACE
COMPRESSION.

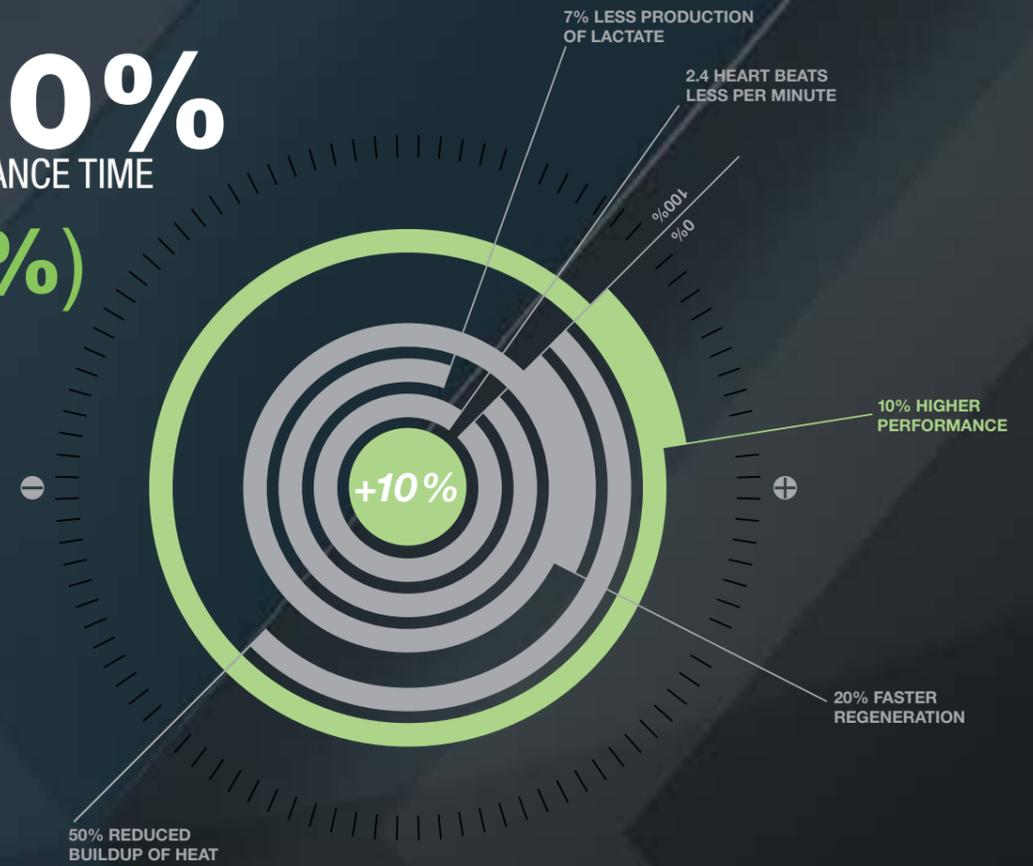
DURATION OF FATIGUE TESTS

Assessment of whether there is a difference in performance for different types of compression clothing. The average duration of the fatigue tests (TTE) ranged from 127 seconds for test S (full-surface compression) to 139 seconds for test X (X-BIONIC® Partialkompression®) with test C (comparison clothing) lasting on average 133 seconds. This means there was an increase in test duration of 4% for clothing from X-BIONIC® compared to the shorter test duration for clothing with full-surface compression. The comparison between the two compression garments showed a performance difference of approx. 10% in favour of X-BIONIC®.

TT	TTE_C (Sec)	TTE_X (Sec)	TTE_S (Sec)
	241.0	236.0	231.0
	64.0	73.0	90.0
	157.0	161.0	111.0
	131.0	122.0	132.0
	50.0	60.0	38.0
	93.0		92.0
	196.0	186.0	197.0
Mean	133.1	139.7	127.3
st. dev.	70.1	67.8	66.5



+10%
PERFORMANCE TIME
(+3%)



X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
FENNEC®
INVENT®
ENERGIZER®

EFFECTS LACTATE

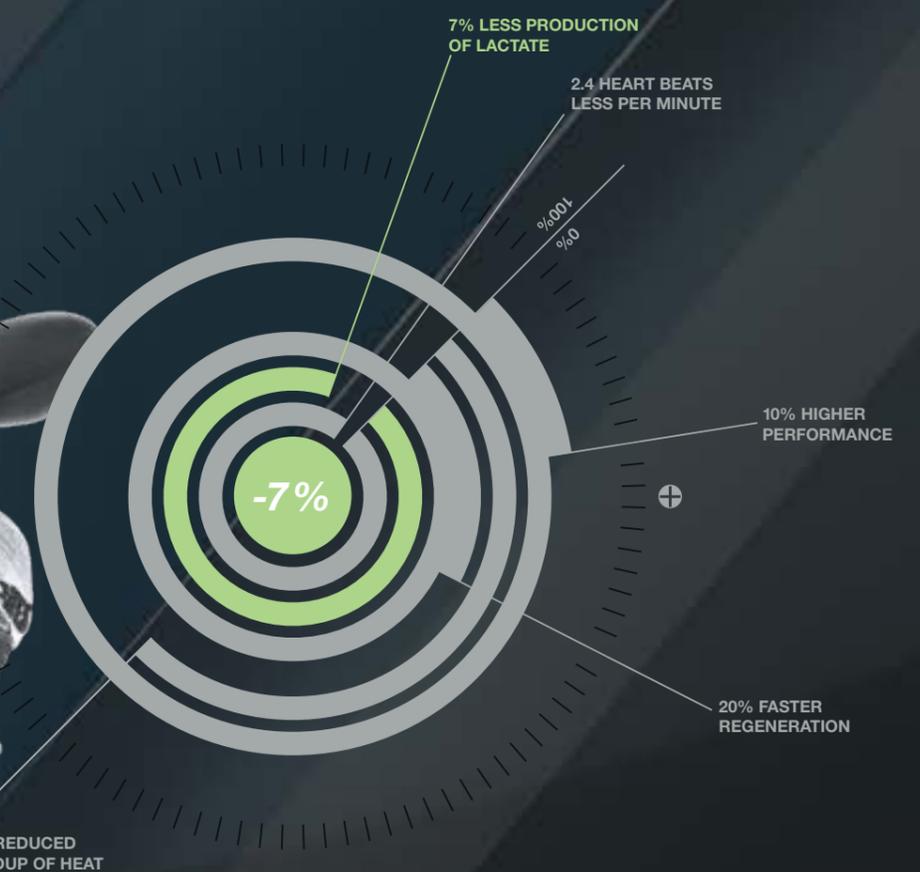
Two ways to reduce lactate:
One, don't move...
Two, Partialkompression®.

MINIMAL LACTATE BUILDUP

7% LESS PRODUCTION OF LACTATE WITH X-BIONIC® PARTIALKOMPRESSION® IN COMPARISON TO FULL SURFACE COMPRESSION.

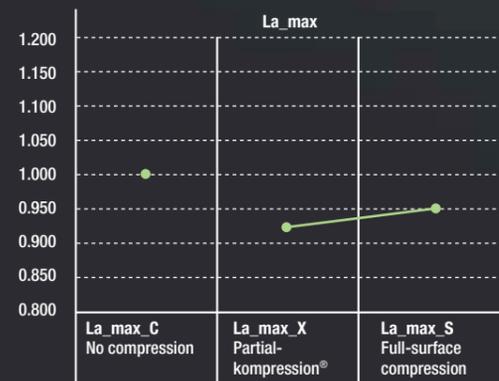
LACTATE CONCENTRATION

Maximum blood lactate levels are lower when compression clothing is worn, thanks to improved venous return. The breakdown of lactates is improved by wearing compression clothing. Lactate is the salt of lactic acid, which is formed during extended periods of exertion. This leads to muscle fatigue, also known as "fat legs."



-7%
MINIMAL LACTATE BUILDUP
(-1%)

La_max	La_max_C (mM)	La_max_X (mM)	La_max_S (mM)
	14.8	12.9	15.2
	7.8	10.3	7.3
	10.2	11.2	8.1
	11.8	7.7	12.1
	6.8	6.1	5.8
	10.5	7.7	9.9
	9.7	8.1	10.3
Mean	10.2	9.1	9.8
st. dev.	2.6	2.4	3.1



X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
FENNEC®
INVENT®
ENERGIZER®

EFFECTS

TEMPERATURE

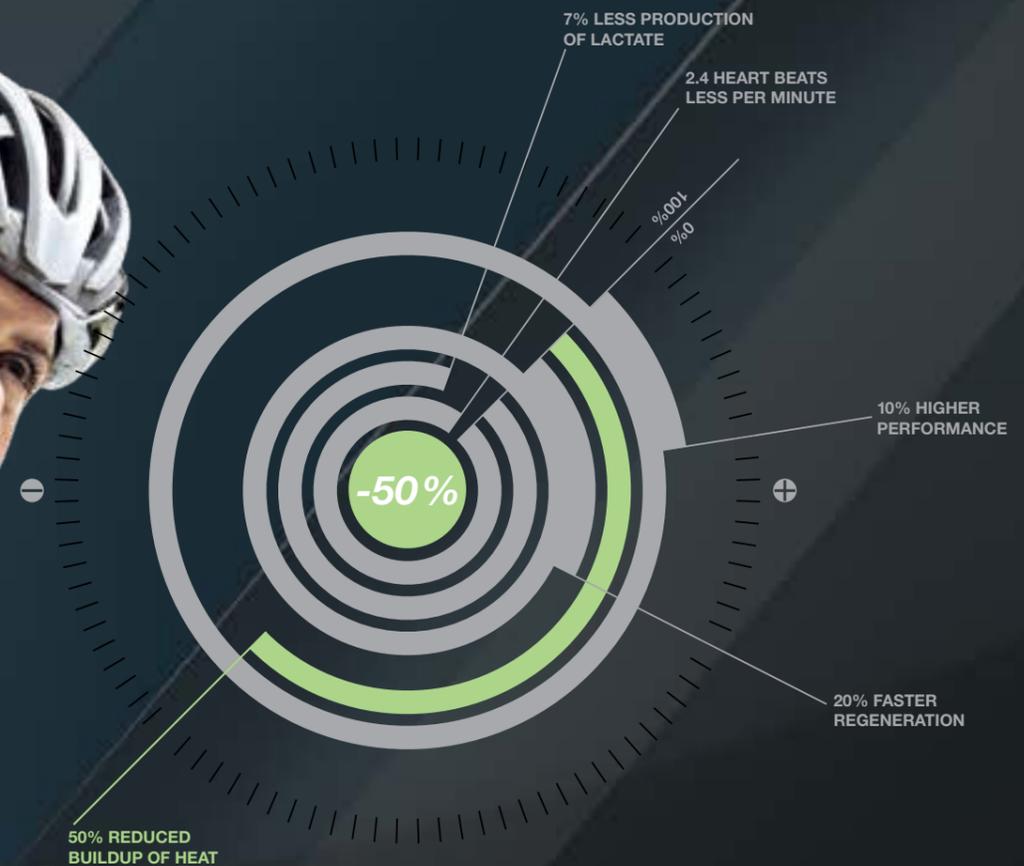
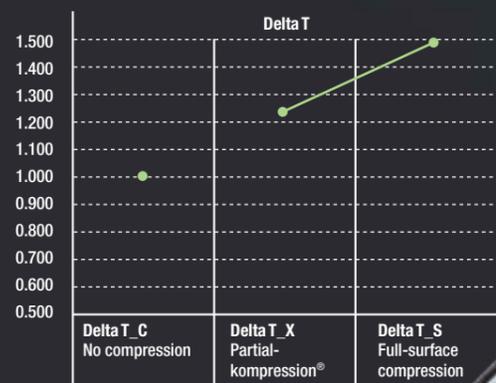
A body will lose warmth until it reaches the ambient temperature. Normally.

X-BIONIC® PARTIALKOMPRESSION® PRODUCES HALF THE HIGH BODY HEAT IN COMPARISON TO FULL SURFACE COMPRESSION.

CORE BODY TEMPERATURE

During physical activity the change in body temperature was measured both in athletes wearing Effektor as well as those in functional apparel with all-over surface compression. Result: With Effektor® with Partialkompression® body temperature only changed insignificantly (approximately 0.15 degrees Celsius), while those with apparel with all-over surface compression was significantly more (about double or approximately 0.38 degrees Celsius).

Delta T	Delta T_C (°C)	Delta T_X (°C)	Delta T_S (°C)
	0.77	1.33	1.10
	0.52	0.67	1.08
	1.32	1.08	1.21
	1.14	1.59	1.73
	1.04	0.83	
	1.05	1.45	
		0.91	1.64
Mean	0.97	1.12	1.35
st. dev.	0.28	0.34	0.31



-50%
REDUCED BUILD UP OF HEAT
(-20%)

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EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

EFFECTS
RECOVERY

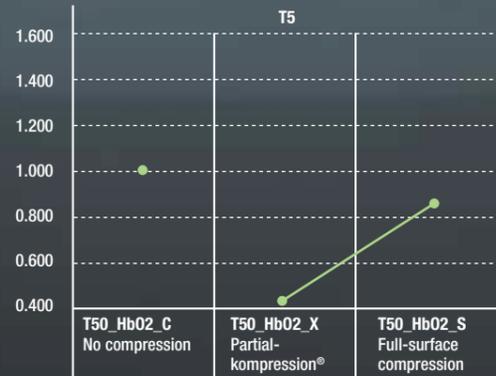
The laws of cell regeneration will need to be rewritten.

20% FASTER RECOVERY WITH X-BIONIC® PARTIALKOMPRESSION® IN COMPARISM TO FULL SURFACE COMPRESSION.

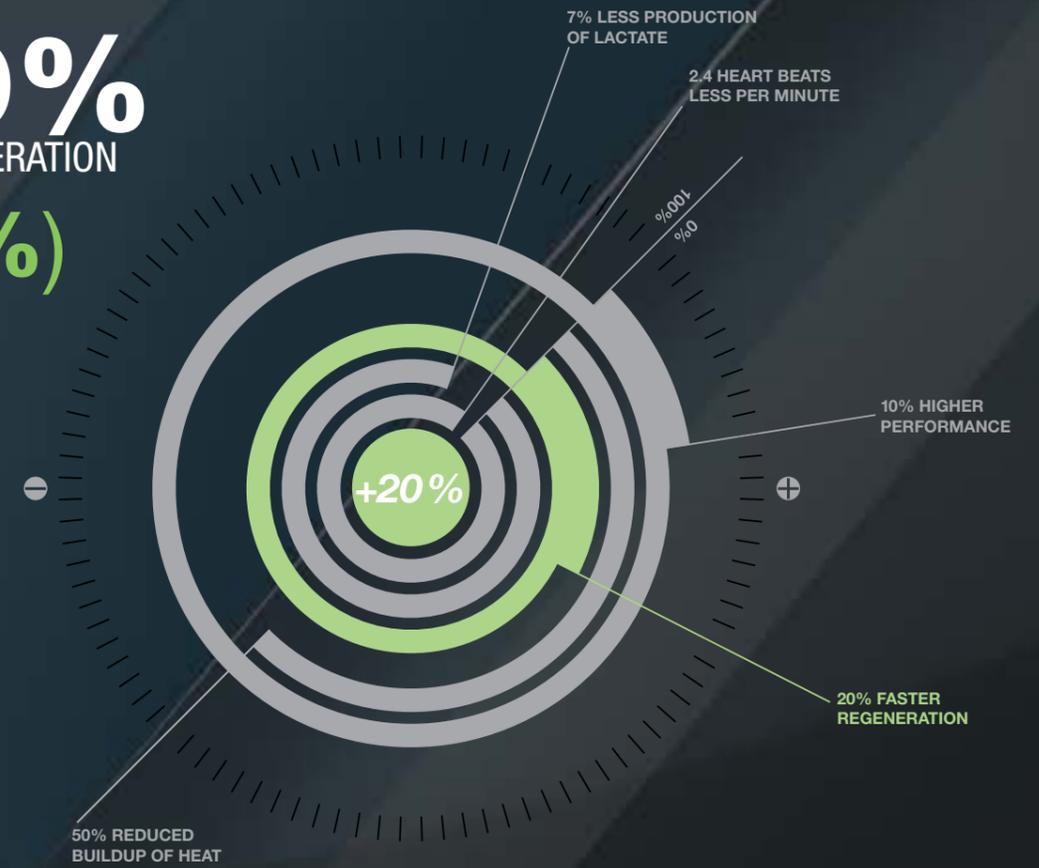
OXYGEN LEVEL RECOVERY

The supply of oxygen to the muscles is crucial for an athlete's performance. The muscles require oxygen in order to produce energy. Oxygen is delivered to the muscle cells through the capillaries - the smallest blood vessels. In the test, the muscles were artificially deprived of oxygen and the subsequent rate of recovery was measured. This was faster with X-BIONIC® Partialkompression® than with full-surface compression – with a difference of more than 20 percent.

T50	T50_Hb02_C (Sec)	T50_Hb02_X (Sec)	T50_Hb02_S (Sec)
	6.0	1.0	4.0
		3.0	
		2.0	
	3.0		2.0
	3.0		3.0
	3.0	2.0	2.0
	2.0		2.0
Mean	3.4	2.0	2.7
st. dev.	1.5	0.8	0.8



+20%
FASTER REGENERATION
(+12%)



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INVENT®

ENERGIZER®

EFFECTS

HEART RATE

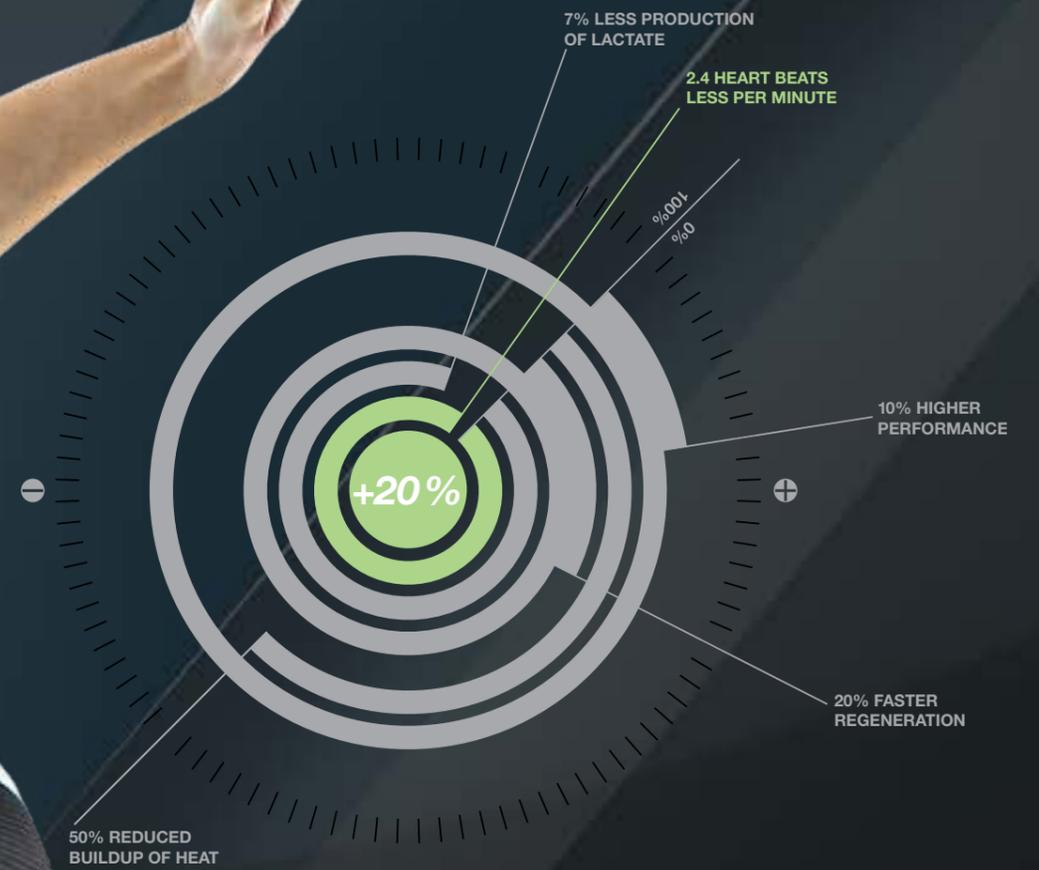
Effektor® slows you down only in one point: Heart rate.

2.4 HEART BEATS PER MINUTE LESS USING X-BIONIC® PARTIALKOMPRESSION® IN COMPARISON TO FULL SURFACE COMPRESSION.

CARDIOVASCULAR INDICES

The results of the tests with compression clothing show reduced oxygen consumption in a steady-state and improved metabolic efficiency for the same effort expenditure. This may be the result of increased venous return flow due to the effect of the compression garments. The hypothesis of increased venous return flow is supported by the increased stroke volume (SV) (which is larger with X-BIONIC® Partialkompression®) and the consequent reduction in heart rate (HR) (this is especially the case for clothing with X-BIONIC® Partialkompression® rather than full-surface compression).

T50	T50_Hb02_C (Sec)	T50_Hb02_X (Sec)	T50_Hb02_S (Sec)
	6.0	1.0	4.0
		3.0	
		2.0	2.0
	3.0		3.0
	3.0	2.0	2.0
	3.0		3.0
	2.0		2.0
Mean	3.4	2.0	2.7
st. dev.	1.5	0.8	0.8



-2.4
HEART BEATS PER MINUTE
(-0.4)

X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
FENNEC®
INVENT®
ENERGIZER®



EFFECTS

PRECISION

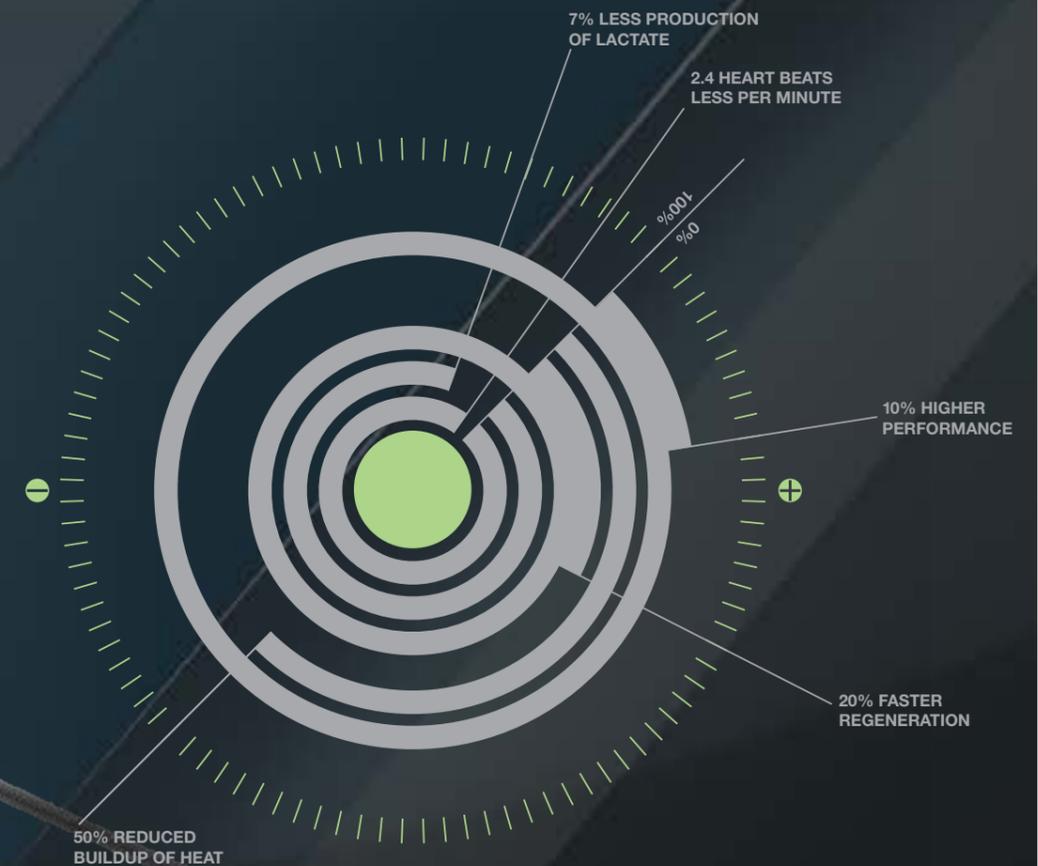
Precise balance in spite of unbalanced activities.

LOWEST HEART RATE
2.4 HEART BEATS
PER MINUTE LESS
USING X-BIONIC®

PARTIALKOMPRESSION® IN COMPARISON TO
FULL SURFACE COMPRESSION.

CARDIOVASCULAR INDICES

The results of the tests with compression clothing show reduced oxygen consumption in a steady-state and improved metabolic efficiency for the same effort expenditure. This may be the result of increased venous return flow due to the effect of the compression garments. The hypothesis of increased venous return flow is supported by the increased stroke volume (SV) (which is larger with X-BIONIC® Partialkompression®) and the consequent reduction in heart rate (HR) (this is especially the case for clothing with X-BIONIC® Partialkompression® rather than full-surface compression).



100% MAXIMUM PRECISION



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

COMFORT 4000FX

BIKE PAD FOR WOMEN

Foam pads with an even knit structure at the front for this delicate area

- 1 **ERGONOMIC PUBICPAD**
Protects sensitive areas thanks to the highly breathable, well-cushioned bike pad.
- 2 **MEMORY FOAM PAD ON THE PUBIC BONE**
Reduces pressure points in this delicate zone.
- 3 **100% ELASTICITY OF THE PAD**
Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.
- 4 **THE BACTERIOSTATIC INNER SURFACE**
The 3D knit structure in Skin NODOR® guarantees optimal seat comfort.
- 5 **THE COMBINATION OF 3D KNIT STRUCTURE AND FOAM**
Provides maximum elasticity and ideal fit.
- 6 **CHANNELS IN THE FOAM**
Ensure optimised moisture management inside the pad.
- 7 **SEAMLESS 3D KNIT PARTS**
Allow a perfect combination of complex functional surface structures whilst avoiding the risk of skin irritation.
- 8 **POWERFULLY SHOCK-ABSORBING PADS**
In the area of the ischium, the pads offer effective shock absorption and proportionate distribution of pressure.
- 9 **THIN LAYER**
Ensure optimised moisture management inside the pad.
- 10 **STABILISED LINING**
For lifetime durability.
- 11 **FOAM PAD WITH AIR DUCTS**
Arranged for optimal moisture management.



ENDURANCE 4000FX

BIKE PAD FOR MEN

Foam pads with an even knit structure at the front for this delicate area

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Protects sensitive areas thanks to the highly breathable, well-cushioned bike pad.
- 2 **100% ELASTICITY OF THE PAD**
Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.
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Provides maximum elasticity and ideal fit.
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Ensure optimised moisture management inside the pad.
- 6 **LONGITUDINAL SECTIONS AND CROSS SECTIONS**
Make the seat pad extremely adaptable.
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Allow a perfect combination of complex functional surface structures whilst avoiding the risk of skin irritation.
- 8 **THIN LAYER**
Ensure optimised moisture management inside the pad.
- 9 **STABILISED LINING**
For lifetime durability.
- 10 **FOAM PAD WITH AIR DUCTS**
Arranged for optimal moisture management.
- 11 **3D KNIT STRUCTURE**
- 12 **WINDPROOF PROTECTION**



1 NEURAL-RESPONSE-EFFECT

X-BIONIC® 4.0 Partialkompression® puts peripheral nerve cells in a constant state of readiness; optimises the exchange of neural impulses between muscles and brain; increases muscle reactions, contractions and coordination; and decreases the risk of injury and exhaustion.

Patented in 25 countries: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LT, LU, LV, NL, PL, SE, SI, TR, IN, MX, RU, CN

X-BIONIC® 4.0 PARTIALKOMPRESSION®

A new benchmark in compression technology.

X-BIONIC® 4.0 Partialkompression® utilizes the advantages of compression without neglecting cooling.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

SMART COMPRESSION

The compression on the arm increases towards the wrist.

This gradual compression effectively supports venous blood return.

HEAT-TRANSFER-ZONE

The extremely fine mesh between the compression ridges allows heat to be optimally dissipated.

2 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research.

The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 ISO-SHOULDER

Protects the shoulder region from wind and cold.

5 X-IMPACT TECHNOLOGY

Better performance due to graduated compression that reduces muscle oscillations, supports muscles and joints and optimises nutrient supply.

6 BACK POCKETS

Secure storage with quick access.

7 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

8 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY®

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

EFFEKTOR® 4.0

+ 100% SWISS ENGINEERED

MEN CYCLING ZIP SHIRT SH SL

EF-BT00S19M

COMPOSITION
90% Polyamide
7% Elastane
3% Polypropylen



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

MEN

1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

3 ELASTIC STRAPS

The soft and wide straps guarantee secure support and provide extra comfort.

4 NEURAL-RESPONSE-BANDAGE

The Neural-Response-Bandage exerts targeted pressure on the muscle attachment, prepares the receptors for action and improves the work of the muscles.

5 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

A high-tech knit technology that ensures optimal support and comfortable temperature regulation. Varying ribbing and surface construction ensures support, plus transports moisture as well as warmth.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

6 ENDURANCE 4000 FX BIKE PAD

The Bike Pad is anatomically formed and fits the human anatomy perfectly. It removes pressure from sensitive capillaries and nerves. The pad is not simply sewn onto the pants as traditional bike pads are. Instead, X-Bionic® leaves off the chamois during the manufacturing of the pants and then sews it in separately by hand, so that the fit and elasticity of the pad is not affected by the pant material. This guarantees a never before experienced fit and comfort.

Patented in 30 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, HK, JP, KR, MX, NZ, RU, US, ZA

7 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

8 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

9 SWEAT TRAPS® AT THE TAILBONE

The Sweat Traps® at the tailbone are targeted specifically at catching sweat flowing toward the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

10 INNERLAP AIRCONDITIONING ZONE

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

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EFFEKTOR® 4.0

+ 100% SWISS ENGINEERED

MEN CYCLING BIB SHORTS PADDED

EF-BB00S19M

COMPOSITION
85% Polyamide
10% Polypropylen
5% Elastane



ENDURANCE 4000 FX BIKEPAD

100% ELASTIC PAD
Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.

BACTERIOSTATIC INNER SURFACE
The 3D knit structure in Skin NODOR® guarantees optimal seat comfort.

STABILIZED LINING
For lifetime durability.

WINDPROOF PROTECTION

X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

MEN

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4 ISO-SHOULDER

Protects the shoulder region from wind and cold.

5 COHESION WRAP TECHNOLOGY

Cohesion Wrap with its vicarious connective tissue supports and stabilises areas of the female body with weak connective tissue.

- Stabilises and supports connective tissue
- Improved metabolism
- Supports lymphatic flow
- Decreased skin dimpling

6 X-IMPACT TECHNOLOGY

Better performance due to graduated compression that reduces muscle oscillations, supports muscles and joints and optimises nutrient supply.

7 BACK POCKETS

Secure storage with quick access.

8 IDEO-WAISTBAND

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EFFEKTOR® 4.0

+ 100% SWISS ENGINEERED

WOMEN CYCLING ZIP SHIRT SH SL

EF-BT00S19W

COMPOSITION
90% Polyamide
7% Elastane
3% Polypropylen



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

WOMEN

CYCLING ZIP SHIRT SH SL Short Sleeves
EF-BT00S19M

SIZES: XS S M L XL XXL



B002 OPAL BLACK/ ARCTIC WHITE - C/O -
E031 EFFEKTOR GREEN/ ARCTIC WHITE - C/O -
Y001 PHYTON YELLOW/ ARCTIC WHITE - C/O -
A003 TEAL BLUE/ DOLOMITE GREY - C/O -
G011 DOLOMITE GREY/ ARCTIC WHITE - EOL -

CYCLING BIB SHORTS PADDED
EF-BB00S19M

SIZES: XS S M L XL XXL



B002 OPAL BLACK/ ARCTIC WHITE - C/O -
B011 OPAL BLACK/ EFFEKTOR GREEN - C/O -

NOTES

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CYCLING ZIP SHIRT SH SL Short Sleeves
EF-BT00S19W

SIZES: XS S M L XL XXL



A031 EFFEKTOR TUQUOISE/ ARCTIC WHITE - C/O -
B002 OPAL BLACK/ ARCTIC WHITE - C/O -
Y001 PHYTON YELLOW/ ARCTIC WHITE - C/O -
P030 MAGNOLIA PURPLE/ ARCTIC WHITE - EOL -

NOTES

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FENNEC® 4.0

+ 100% SWISS ENGINEERED

COOLING IN EXTREME HOT CLIMATES

Inspired by the desert fox Fennec, whose glossy, silvery fur reflects the heat radiated by scorching hot desert sun, thus making it possible for the fox to survive in the heat, X-BIONIC® produced the FENNEC® 4.0 line. Using the revolutionary material XITANIT® 2.0, which mimics the Fennec's ability to get hot on the outside whilst staying cool on the inside, FENNEC® 4.0 acts as a shield against the heat.



2020 PLUS X
AWARD Best
Product of the year



2012
XITANIT®



2010
International
XITANIT®



2008 X-BIONIC®
Wüstenfuchs
Technolofy

turn sweat into energy®
CYCLING



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

FENNEC®

CYCLING

HEAT ON THE OUTSIDE, POWER ON THE INSIDE.

Thanks to X-BIONIC®
Wüstenfuchs technology.

FENNEC TECHNOLOGY

The desert fox Fennec, which is called Wüstenfuchs in German, lives and hunts in intense heat and has adapted perfectly to its hostile environment. This works mainly because its silvery, glossy fur reflects the radiated heat and because it can release a lot of its body heat through its large ears. It is the inspiration behind our X-BIONIC® Wüstenfuchs Technology, that thanks to the exclusive XITANIT® material, is able to reflect the radiated heat from the outside air and distribute sweat all over the skin to achieve effective cooling.



2012
XITANIT®



2010
International
XITANIT®



2008 X-BIONIC®
Wüstenfuchs
Technology

X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®



2020 PLUS X AWARD Best Product of the year



2012 XITANIT®



2010 International XITANIT®



2008 X-BIONIC® Wüstenfuchs Technology

Will change this to a fennec cyclist instead of a runner

INTEGRATED HEAT MANAGEMENT: XITANIT® 2.0

A first step involves XITANIT® 2.0 drawing excess body warmth away from the working muscles. In a second step, the extreme conductivity of the material is brought to bear, drawing the heat away just like a silver spoon in a hot cup of tea.



LIKE RUNNING IN THE SHADE.

Thanks to X-BIONIC® Wüstenfuchs technology.



HEAT REFLECTING:

Searing hot sun, glowing black asphalt and hot-to-the-touch building facades are all environmental factors that raise an athlete's temperature. This radiation is reflected and prevented from penetrating the athlete's skin thanks to the X-BIONIC® Fenfec® 4.0 Running Shirt.

The effect is palpable: the shirt heats up on the outside but stays cool on the interior, keeping you fresh as it neutralises external sources of heat.



HEATPIPE® SYSTEM:

The HeatPipe® System is like a separate microcosm in cooling dynamics. The special knitting technique forms micro ducts. Sweat progresses through the ducts, is heated and then evaporates on the warm outer surface causing a cooling process. Part of the moisture condenses and is then absorbed back into the skin in a cooler state.

A circular flow continues, drawing excess sweat outward and then uses it to aid cooling. No wet sensation, optimal cooling.



DISSIPATING BODY WARMTH:

As a first step, XITANIT® 2.0 draws excess body heat away from the large working muscles. As a second step, the material's extreme conductivity kicks in – working to dissipate and draw away heat just as a silver spoon in a hot cup of tea does.

X-BIONIC® PARTIALKOMPRESSION®

A new benchmark in compression technology. Partialkompression® by X-BIONIC® utilizes the advantages of compression without neglecting cooling.

During sport activities body warmth is created. In extreme situations up to 1,200 watts worth. Up to 90% of this is released by the athlete from the skin to maintain a body temperature of 37°C. X-BIONIC® Partialkompression® applies targeted pressure on 1mm wide ridges. Left and right of the ridge is a compression-free area where compression could have a negative effect on blood circulation to the skin. In this way the blood flow through veins and capillaries remain unimpeded.

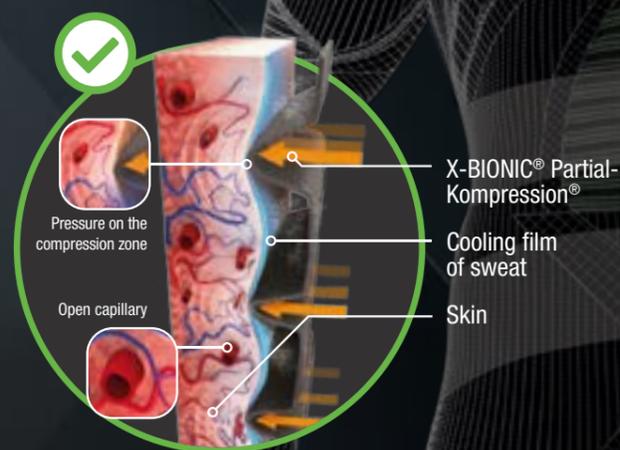
Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

THE RESULTS ARE REVOLUTIONARY:

- Reduces muscle vibration
- Improves muscle uptake of oxygen and nutrients
- Speeds recovery

+ COOLING MECHANISM

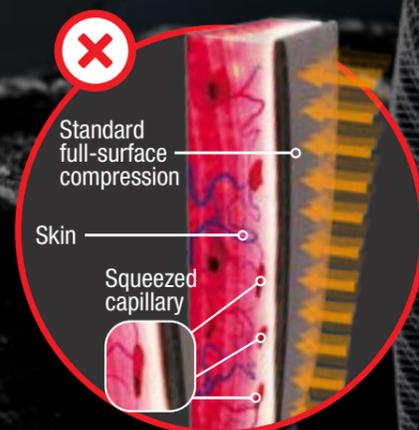
Partialkompression® uses the skin as a surface for cooling and, thus, can take advantage of the body's personal micro-climate for optimising performance.



X-BIONIC® PARTIALKOMPRESSION®

keeps the capillaries open.

→ The body cools down



Standard, full-surface compression chokes the blood vessels.

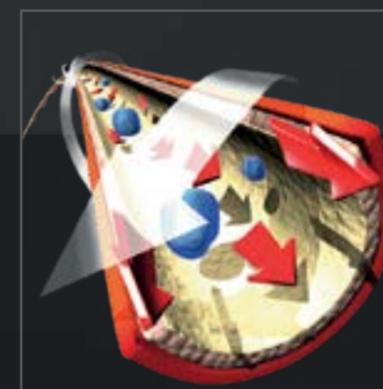
→ The body overheats

First the pressure increases, then your performance:

X-IMPACT TECHNOLOGY

As soon as your muscles quiver from fatigue, their lack of strength will hinder your performance. And athletic success will slip farther from your grasp. Decision Layer by X-BIONIC® is the intelligent technical base layer that thanks to compression can help athletes again edge closer to success because it stabilises active muscles. They don't quiver; rather they can more effectively use the energy resources that are there for the taking. Even in the more advanced stages of races you'll be able to fully rely on your muscles with X-BIONIC®. Even when you already have the championship in your grasp.

Optimal oxygen uptake and nutrient supplies for your body also are an important foundation for athletic success. If you are hungry for victory, you can't let your body starve in any stage of the race. X-impact Technology stabilises your capillaries and veins. It takes the stress off your circulatory system and quickly supplies muscles and organs with performing-enhancing oxygen and nutrients. Your body can tap into all of its resources at the right time so you can be victorious in the tough races.



Improved oxygen and nutrient supply to the muscles



Reduction of muscle vibrations

3D BIONIC® SPHERE SYSTEM WITH ThermoSyphon® Technology

Cools you when you sweat.
Warms when you're cold.



DURING ACTIVITY

Cools when you sweat



DURING RECOVERY

Warms when you are cold

In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR



red dot award 2018 winner



37°C CCR TECHNOLOGY

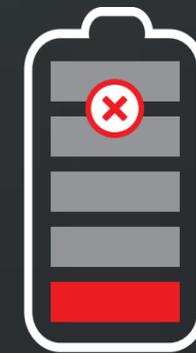
Better performance at the right temperature

"Endurance athletes use up to 97% of their energy in extreme cases just to maintain their optimal body core temperature of 37°C. That leaves only 3% for performance."

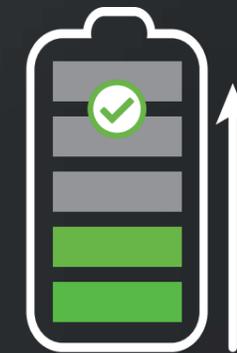
Dr. Ückert, Dortmund University.

Energy consumption needed to maintain 37°C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37°C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.



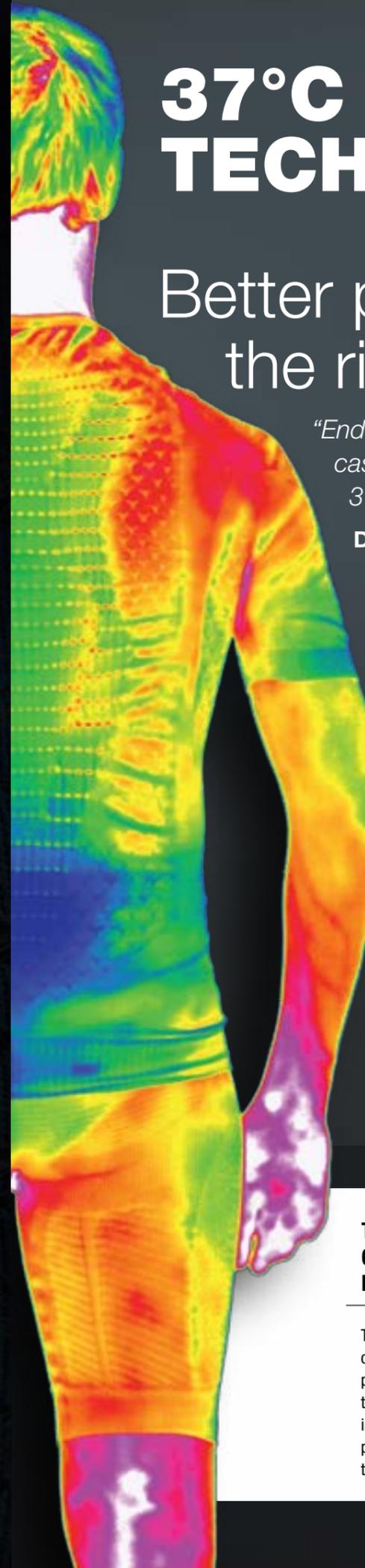
Usable power for your performance without energy-saving technology.



More usable power for your performance with energy-saving technology from X-BIONIC®.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37°C with our patented technologies.



ELITE 2000FX

BIKE PAD FOR MEN

Gel pads with an even knit structure at the front for this delicate area



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Protects sensitive areas thanks to the highly breathable, well-cushioned bike pad.
- 2 100% ELASTICITY OF THE PAD**
Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.
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Allow a perfect combination of complex functional surface structures whilst avoiding the risk of skin irritation.
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2 DOLPHIN RIDER NECK

Ergonomically optimized and streamlined collar, based on typical position during cycling, to avoid helmet-collar-collisions.

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 FLEXOR ARM CUFF

Asymmetrical arm cuff to avoid unpleasant sleeve movement.

5 IDEO-WAISTBAND

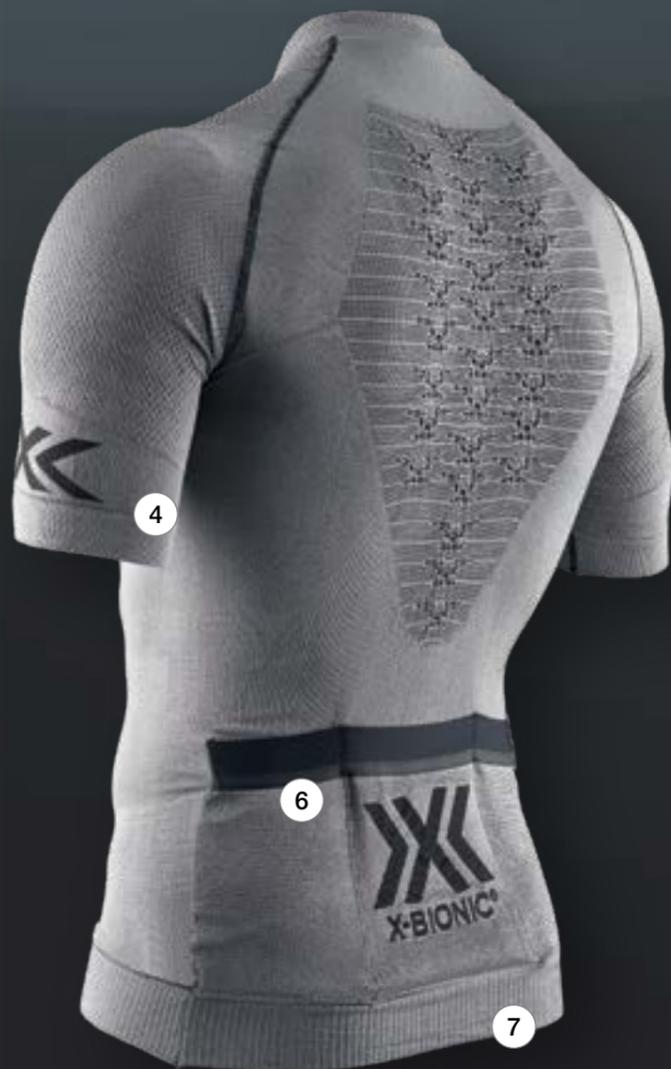
The ergonomically shaped waistband provides a better fit during movement.

6 BACK POCKETS

Secure storage with quick access.

7 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.



XITANIT® 2.0

The revolutionary XITANIT® 2.0 material is highly conductive and capable of reflecting thermal radiation. This lightweight material keeps you warm and prevents bacterial growth.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

Intellyarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY®

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

FENNEC® 4.0

+ 100% SWISS ENGINEERED

MEN CYCLING ZIP SHIRT SH SL

FE-BT12S20M

COMPOSITION
TBD



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

MEN

MEN CYCLING BIB SHORTS PADDED

FE-BB24S20M

COMPOSITION
TBD

1 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM

The high-tech knitting is optimally positioned for more cooling power and perfect climate comfort. The varying construction of Sweat Traps® and 3D Bionic Sphere® System is able to solve the conflict of providing grip whilst transporting sweat and heat.

2 ELITE 2000XT BIKE PAD

Visco-elastic gel pads offer coordinated and effective shock absorption and pressure distribution. A special 3D-knit fabrication lets air circulate across the surface of the skin. Sweat is wicked away quickly from the skin, thus reducing the danger of saddle sores.

Patented in 30 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, HK, JP, KR, MX, NZ, RU, US, ZA

3 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

4 ELASTIC STRAPS

The soft and wide straps guarantee secure support and provide extra comfort.

5 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

6 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

7 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

8 NEURAL-RESPONSE-EFFECT

X-BIONIC® 4.0 PARTIALKOMPRESSION®

A new benchmark in compression technology. X-BIONIC® 4.0 Partialkompression® utilizes the advantages of compression without neglecting cooling.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

SMART COMPRESSION

The compression on the arm increases towards the wrist. This gradual compression effectively supports venous blood return.

HEAT-TRANSFER-ZONE

The extremely fine mesh between the compression ridges allows heat to be optimally dissipated.

XITANIT® 2.0

The revolutionary XITANIT® 2.0 material is highly conductive and capable of reflecting thermal radiation. This lightweight material keeps you warm and prevents bacterial growth.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

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XX-CROSS TECHNOLOGY®

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ELITE 2000XT BIKEPAD

100% ELASTIC PAD

Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.

BACTERIOSTATIC INNER SURFACE

The 3D knit structure in Skin NODOR® guarantees optimal seat comfort.

STABILIZED LINING

For lifetime durability.

WINDPROOF PROTECTION



CYCLING ZIP SHIRT SH SL Short Sleeves
FE-BT12S20M

CYCLING BIB SHORTS PADDED
FE-BB24S20M

SIZES: XS S M L XL XXL

SIZES: XS S M L XL XXL



G051
ANTHRACITE/
SILVER
- C/O -



G051
ANTHRACITE/
SILVER
- C/O -

NOTES

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X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

INVENT[®] 4.0

+ 100% SWISS ENGINEERED

ALL-ROUND EFFECT WITH ADDED ENDURANCE

INVENT[®] 4.0 supports the body, saving the athletes energy whilst maintaining thermoregulation. Saved energy equals more performance. Using the patented technologies like the award winning, 3D Bionic Sphere[®] system, ThermoSyphon[®] technology and ultra-high resolution RETINA INVENT[®] 4.0 improves your body temperature regulation as well your endurance and comfort.



turn sweat into energy[®]
CYCLING

X-BIONIC[®]

TWYCE[®]

THE TRICK[®]

EFFEKTOR[®]

FENNEC[®]

INVENT[®]

ENERGIZER[®]

X-BIONIC® HIGH TRANSPORT YARN

DO YOUR OWN COMPARISON TEST

X-BIONIC® utilizes a high transport yarn on the apparel to enhance the dispersal of sweat to create a quicker cooling effect on the body. This quicker cooling ensures a higher performance for the athlete.



HIGHLY ACTIVE X-BIONIC® 4.0 INVENT® HIGH TRANSPORT YARN:
PROCESSES SWEAT AS SOON AS IT DEVELOPS

A fast dispersal of excess sweat over a large surface area is essential for performance-enhancing apparel. Due to special workmanship of the yarn, the surface area has been expanded and, thus, the efficiency of the sweat transport has been improved. Moisture is drawn into the material in a split second and, once there, can be utilised optimally for cooling.

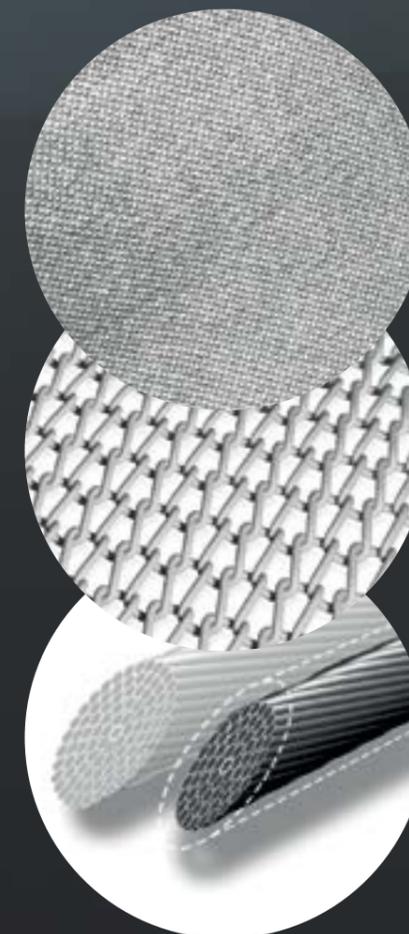
TRADITIONAL “FUNCTIONAL” UNDERWEAR:
PERSPIRATION REMAINS UNPROCESSED EVEN AFTER 1 MINUTE

Many manufacturers of “functional” underwear try to make the product softer, using a special coating. However, due to this treatment the material loses its functionality. At the same time the material gains a new but unwanted characteristic: it becomes water repellent. As you can see on the picture, even after one minute the liquid is not absorbed. The material feels soft and silky, but it does not work properly.

X-BIONIC® CORE TECHNOLOGY

VICTORIES MADE EASY:
ONLY 125 G* WITH ALL X-BIONIC® CORE TECHNOLOGIES

The weight advantage of the apparel lets you increase your power while performing. More explosive, agile and efficient. It weighs 36% less than its predecessor. The apparel therefore fits perfectly into the lightweight strategy, optimal for comfort. INVENT® has been reduced to pure function and is as light and reliable as possible.



ELASTICITY AND ROBUSTNESS

Apparent contrasts work together to provide more freedom of movement, perfect fit and long-lasting effect for years.

WEIGHT-SAVING KNITTING PROCESS

The special mesh geometry ensures that with low material usage nevertheless a homogeneous, flexible surface is created.

OPTIMISED MASS-TO-SURFACE RATIO

The reduction of the fibre diameter by 20% results in a significant weight reduction of 36%. This increases the specific performance.

SPECIAL KNITTED FABRIC
REDUCED BY 36% IN WEIGHT

37°C CCR TECHNOLOGY

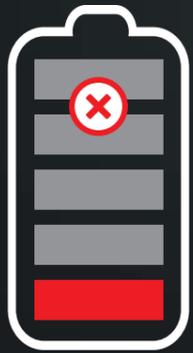
Better performance at the right temperature

“Endurance athletes use up to 97% of their energy in extreme cases just to maintain their optimal body core temperature of 37°C. That leaves only 3% for performance.”

Dr. Ückert, Dortmund University.

Energy consumption needed to maintain 37°C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37°C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.



Usable power for your performance without energy-saving technology.



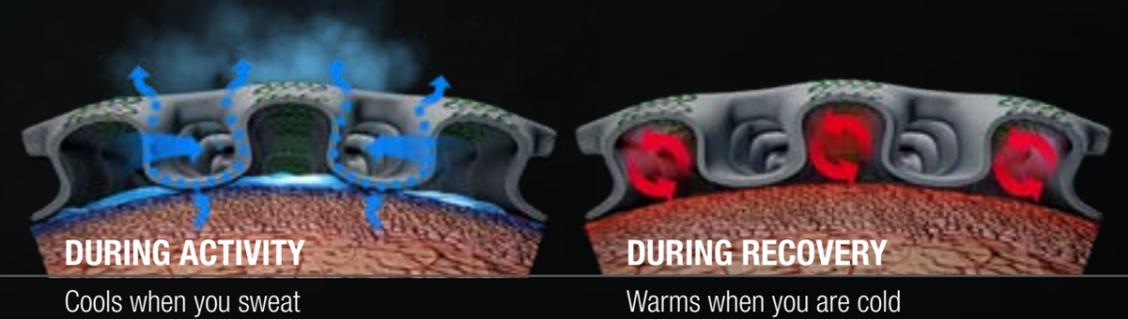
More usable power for your performance with energy-saving technology from X-BIONIC®.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37°C with our patented technologies.

3D BIONIC® SPHERE SYSTEM

Cools you when you sweat.
Warms when you're cold.



In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

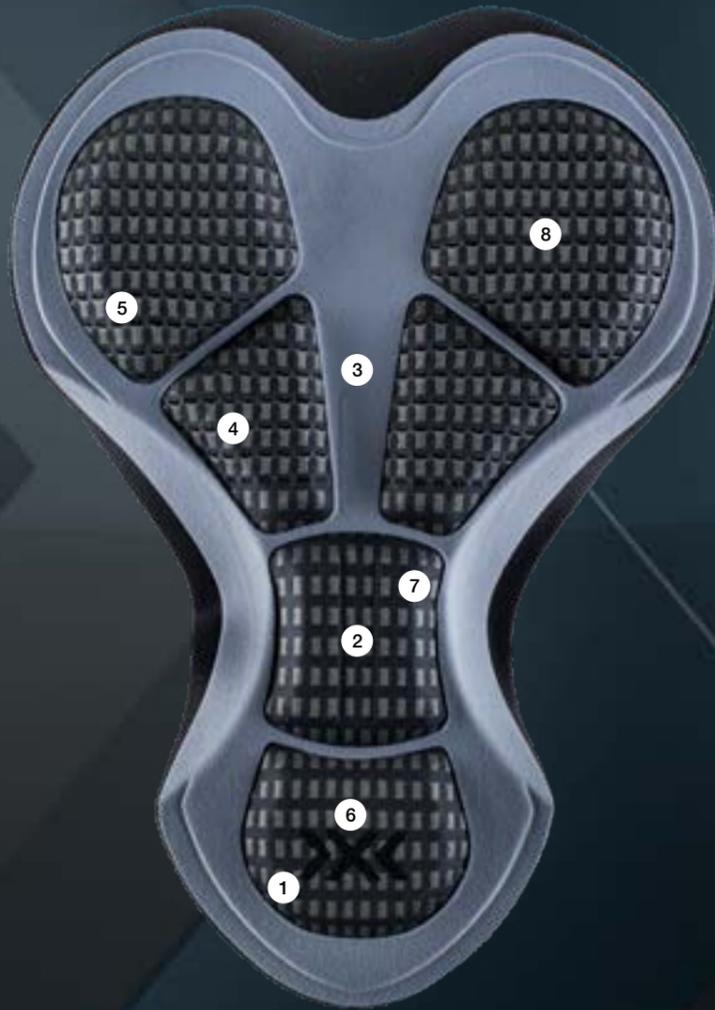
X-BIONIC®
TWYCE®
THE TRICK®
EFFEKTOR®
FENNEC®
INVENT®
ENERGIZER®

COMFORT 4000FX

BIKE PAD FOR WOMEN

Foam pads with an even knit structure at the front for this delicate area

- 1 **ERGONOMIC PUBICPAD**
Protects sensitive areas thanks to the highly breathable, well-cushioned bike pad.
- 2 **MEMORY FOAM PAD ON THE PUBIC BONE**
Reduces pressure points in this delicate zone.
- 3 **100% ELASTICITY OF THE PAD**
Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.
- 4 **THE BACTERIOSTATIC INNER SURFACE**
The 3D knit structure in Skin NODOR® guarantees optimal seat comfort.
- 5 **THE COMBINATION OF 3D KNIT STRUCTURE AND FOAM**
Provides maximum elasticity and ideal fit.
- 6 **CHANNELS IN THE FOAM**
Ensure optimised moisture management inside the pad.
- 7 **SEAMLESS 3D KNIT PARTS**
Allow a perfect combination of complex functional surface structures whilst avoiding the risk of skin irritation.
- 8 **POWERFULLY SHOCK-ABSORBING PADS**
In the area of the ischium, the pads offer effective shock absorption and proportionate distribution of pressure.
- 9 **THIN LAYER**
Ensure optimised moisture management inside the pad.
- 10 **STABILISED LINING**
For lifetime durability.
- 11 **FOAM PAD WITH AIR DUCTS**
Arranged for optimal moisture management.



ENDURANCE 4000FX

BIKE PAD FOR MEN

Foam pads with an even knit structure at the front for this delicate area

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- 6 **LONGITUDINAL SECTIONS AND CROSS SECTIONS**
Make the seat pad extremely adaptable.
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- 11 **3D KNIT STRUCTURE**
- 12 **WINDPROOF PROTECTION**



1 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

2 VENUS XT RIB

Vertical ventilation channel for an increased air exchange and thus sweat management.

3 SWEAT TRAPS®

Enlarged for better cooling efficiency and cooling power so as exact positioning to prevent dripping.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 KIDNEY RIBS

Enhanced insulation in the particularly temperature-sensitive kidney and pelvis area.

5 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

6 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

7 DOLPHIN RIDER NECK

Ergonomically optimized and streamlined collar, based on typical position during cycling, to avoid helmet-collar-collisions.

8 FLEXOR ARM CUFF

Asymmetrical arm cuff to avoid unpleasant sleeve movement.

9 BACK POCKETS

The practical rear pockets are positioned to provide maximum accessibility without restricting freedom of movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY®

H-DRY TECHNOLOGY

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37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



INVENT® 4.0

+ 100% SWISS ENGINEERED

MEN CYCLING ZIP SHIRT SH SL

RT-BT00S19M

COMPOSITION
97% Polyamide
3% Polypropylen



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

MEN

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6 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the ones in the knee area, but more delicately. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement. Even sports with continuous arm movements, such as Nordic Walking, produce no symptoms of musculature exhaustion from the movement of the Expansion Ribs®.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

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A new benchmark in compression technology. X-BIONIC® 4.0 Partialkompression® utilises the advantages of compression without neglecting cooling. Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

5 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

6 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM

The high-tech knitting is optimally positioned for more cooling power and perfect climate comfort. The varying construction of Sweat Traps® and 3D Bionic Sphere® System is able to solve the conflict of providing grip whilst transporting sweat and heat.

7 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZEROInsulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

8 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads over the hipbones retain body heat that is necessary to guarantee interior organ functionality.

9 ENDURANCE 4000 FX BIKE PAD

The Bike Pad is anatomically formed and fits the human anatomy perfectly. It removes pressure from sensitive capillaries and nerves. The pad is not simply sewn onto the pants as traditional bike pads are. Instead, X-Bionic® leaves off the chamois during the manufacturing of the pants and then sews it in separately by hand, so that the fit and elasticity of the pad is not affected by the pant material. This guarantees a never before experienced fit and comfort. Patented in 30 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, HK, JP, KR, MX, NZ, RU, US, ZA

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MEN BIKE RACE BIB SHORTS PADDED

RT-BB00S19M

COMPOSITION
88% Polyamide
5% Polypropylen
7% Elastane



ENDURANCE 4000 FX BIKEPAD

100% ELASTIC PAD
Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.

BACTERIOSTATIC INNER SURFACE
The 3D knit structure in Skin NODOR® guarantees optimal seat comfort.

STABILIZED LINING
For lifetime durability.

WINDPROOF PROTECTION

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+ 100% SWISS ENGINEERED

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8 EXPANSIONKNEE®

Protects from the cold, even when the knee is bent.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

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11 AIRCONDITIONINGSPOT

The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

12 ELASTIC STRAPS

The soft and wide straps guarantee secure support and provide extra comfort.

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37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



MEN

BIKE RACE BIB PANTS PADDED

IN-BB05W19M

COMPOSITION
89% Polyamide
4% Polypropylen
7% Elastane



ENDURANCE 4000 FX BIKEPAD

100% ELASTIC PAD

Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.

BACTERIOSTATIC INNER SURFACE

The 3D knit structure in Skin NODOR® guarantees optimal seat comfort.

STABILIZED LINING

For lifetime durability.

WINDPROOF PROTECTION



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

1 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

2 VENUS XT RIB

Vertical ventilation channel for an increased air exchange and thus sweat management.

3 SWEAT TRAPS®

Enlarged for better cooling efficiency and cooling power so as exact positioning to prevent dripping.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 KIDNEY RIBS

Enhanced insulation in the particularly temperature-sensitive kidney and pelvis area.

5 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

6 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

7 DOLPHIN RIDER NECK

Ergonomically optimized and streamlined collar, based on typical position during cycling, to avoid helmet-collar-collisions.

8 FLEXOR ARM CUFF

Asymmetrical arm cuff to avoid unpleasant sleeve movement.

9 BACK POCKETS

The practical rear pockets are positioned to provide maximum accessibility without restricting freedom of movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY®

H-DRY TECHNOLOGY

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INVENT® 4.0

+ 100% SWISS ENGINEERED

WOMEN CYCLING ZIP SHIRT SH SL

RT-BT00S19W

COMPOSITION
97% Polyamide
3% Polypropylen



X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

WOMEN

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4 KIDNEY RIBS

Enhanced insulation in the particularly temperature-sensitive kidney and pelvis area.

5 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

6 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the ones in the knee area, but more delicately. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement. Even sports with continuous arm movements, such as Nordic Walking, produce no symptoms of musculature exhaustion from the movement of the Expansion Ribs®.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

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5 X-BIONIC® 4.0 PARTIALKOMPRESSION®

A new benchmark in compression technology.

X-BIONIC® 4.0 Partialkompression® utilises the advantages of compression without neglecting cooling.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

6 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

7 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZEROInsulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

8 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads over the hipbones retain body heat that is necessary to guarantee interior organ functionality.

9 COMFORT 4000 FX BIKE PAD

The Bike Pad is anatomically formed and fits the human anatomy perfectly. It removes pressure from sensitive capillaries and nerves. The pad is not simply sewn onto the pants as traditional bike pads are. Instead, X-Bionic® leaves off the chamois during the manufacturing of the pants and then sews it in separately by hand, so that the fit and elasticity of the pad is not affected by the pant material. This guarantees a never before experienced fit and comfort.

Patented in 30 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, HK, JP, KR, MX, NZ, RU, US, ZA

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WOMEN

BIKE RACE SHORTS PADDED

RT-B500S19W

COMPOSITION
88% Polyamide
5% Polypropylen
7% Elastane



COMFORT 4000 FX BIKEPAD

100% ELASTIC PAD
Achieved by the unique assembling of the pad into the pants, rather than sewn onto the pants.

BACTERIOSTATIC INNER SURFACE
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STABILIZED LINING
For lifetime durability.

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Protects from the cold, even when the knee is bent.

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H-DRY TECHNOLOGY

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WOMEN BIKE RACE PANTS PADDED

IN-BP05W19W

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5% Polypropylen
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STABILIZED LINING

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INVENT® 4.0

+ 100% SWISS ENGINEERED

X-BIONIC®

TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®

WOMEN

CYCLING ZIP SHIRT SH SL Short Sleeves
RT-BT00S19M

SIZES: XS S M L XL XXL



B002 OPAL BLACK/ ARCTIC WHITE - C/O -
E015 PINE GREEN/ AMAZONAS GREEN - C/O -
G014 DOLOMITE GREY/ PHYTON YELLOW - C/O -
R011 NAMIB RED/ DOLOMITE GREY - C/O -

CYCLING ZIP SHIRT LG SL Short Sleeves
IN-BT06W19M

SIZES: XS S M L XL XXL



B036 BLACK/ CHARCOAL - C/O -

CYCLING BIB SHORTS PADDED
RT-BB00S19M

SIZES: XS S M L XL XXL



B002 OPAL BLACK/ ARCTIC WHITE - C/O -

NOTES

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CYCLING BIB PANTS PADDED
IN-BB05W19M

SIZES: XS S M L XL XXL



B036 BLACK/ CHARCOAL - C/O -

CYCLING ZIP SHIRT SH SL Short Sleeves
RT-BT00S19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK/ ARCTIC WHITE - C/O -
P028 BRIGHT LAVENDER/ WHITE - C/O -
G022 DOLOMITE GREY/ AQUA - C/O -
E024 AMAZONAS GREEN/ MAGNOLIA PURPLE - EOL -
G015 DOLOMITE GREY/ MAGNOLIA PURPLE - EOL -

CYCLING ZIP SHIRT LG SL Short Sleeves
IN-BT06W19W

SIZES: XS S M L XL XXL



B036 BLACK/ CHARCOAL - C/O -

CYCLING SHORTS PADDED
RT-B500S19W

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B002 OPAL BLACK/ ARCTIC WHITE - C/O -

NOTES

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CYCLING PANTS PADDED
IN-BP05W19W

SIZES: XS S M L XL XXL



B036 BLACK/ CHARCOAL - C/O -

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TWYCE®

THE TRICK®

EFFEKTOR®

FENNEC®

INVENT®

ENERGIZER®



 SWISS ENGINEERED
 CRAFTED IN ITALY

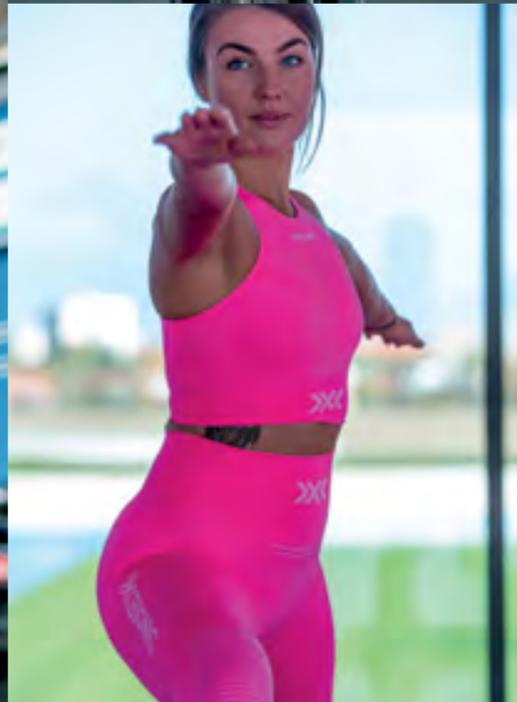
turn sweat into energy[®]

FITNESS



X-BIONIC®

SWISS ENGINEERED
CRAFTED IN ITALY



FITNESS

100% RESEARCH, DEVELOPMENT, DESIGN  COMMUNICATION DONE IN SWITZERLAND

YOU HAVE TO BE INSPIRED TO INSPIRE OTHERS! TANIA SEGUI, X-BIONIC® ATHLETE



Tania Segui
PROFESSIONAL ATHLETE

Finding motivation each and every morning isn't always easy, especially when others are looking at you as their inspiration. As personal trainer and fitness club manager XBathlete **Tania Segui** feels the pressure of inspiring every day. Most days come easy when you love what you do but on the odd days when she isn't inspired, she can rely on her X-Bionic sportswear to provide the inspiration for her. Equipped with patented technologies the fitness line is meant to bring motivation and inspiration to any athlete that wears it.

Inspiration can come from many places but in her gym, whether its group training or personal training, there is one hotspot of inspiration and that is Tania herself. The upbeat energy and desire to make her clients thrive make Tania a source of inspiration for anybody setting foot into the gym. Class after class, from body-pump to spinning, a reliable partner will see you get through the day in ease.

Being able to rely on her sports gear takes some pressure off Tania and lets her focus her energy on being a source of inspiration for others and pushing her students past their limits.

When Tania isn't helping her clients break their personal records, she is presenting at national fitness events, a task that is almost as strenuous. Known for her motivational talent she finds a way to inspire every athlete, from the guy that bought his first gym membership to the professional body builder that wants to set a new personal best at the competition.

"My job consists of inspiring, motivating and empowering people to achieve a healthier lifestyle. X-Bionic helps me in my mission to inspire athletes to reach their best."



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

MAXIMIZE YOUR TRAINING PERFORMANCE THROUGH SMART TEMPERATURE REGULATION

In order to keep you performing under all conditions, X-BIONIC® engineers have made the tried-and-tested even better and adapted the ENERGIZER® line based on the latest scientific studies. The ENERGIZER® 4.0. is a technically outstanding product, that optimally supports thermoregulation, acting as a stabilizer allowing the body to focus on performance and thus increasing it.



X-BIONIC®

ENERGIZER®

ENERGIZER®

DECISION LAYERS

100% RESEARCH, DEVELOPMENT, DESIGN + COMMUNICATION DONE IN SWITZERLAND

3D BIONIC® SPHERE SYSTEM WITH ThermoSyphon® Technology

Cools you when you sweat.
Warms when you're cold.



DURING ACTIVITY

Cools when you sweat



DURING RECOVERY

Warms when you are cold

In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR



red dot award 2018 winner



37°C CCR TECHNOLOGY

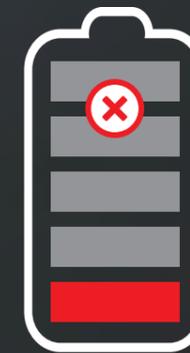
Better performance at the right temperature

"Endurance athletes use up to 97% of their energy in extreme cases just to maintain their optimal body core temperature of 37°C. That leaves only 3% for performance."

Dr. Ückert, Dortmund University.

Energy consumption needed to maintain 37°C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37°C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.



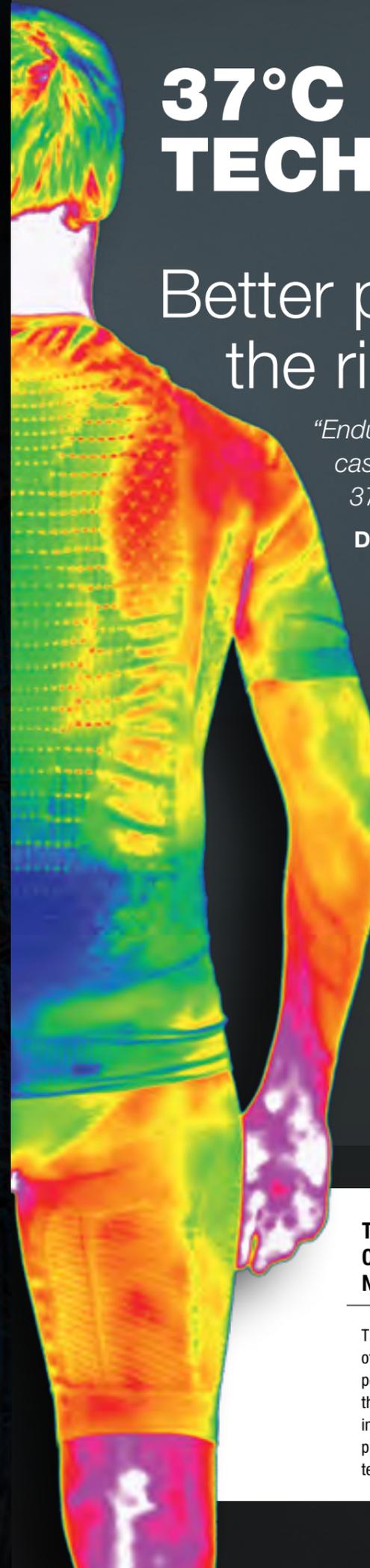
Usable power for your performance without energy-saving technology.



More usable power for your performance with energy-saving technology from X-BIONIC®.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37°C with our patented technologies.



1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

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3 FORT-X SUPPORT

The x-shaped construction optimally stabilises the breast tissue. The fine, horizontal bars absorb vibrations, absorb moisture immediately and thus prevent chafing. No feeling of wetness: The innovative channel system in the FORT-X Support absorbs excess sweat immediately and causes it to evaporate. If there is no sweat, the air inclusions insulate against cold.

4 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

5 RELIEF ZONE

Allows for 360° mobility of the arms. No pushing and no pulling. Simply a perfect fit.

6 ERGONOMIC RELIEF STRAPS

The Ergonomic Relief Straps guarantee secure support.

7 STABILISATION RIBS

The lateral integrated ribs provide additional stability.

8 AKTIV-BUND

Keeps the bra from slipping up or constricting.

9 COHESION WRAP TECHNOLOGY

Cohesion Wrap with its vicarious connective tissue supports and stabilises areas of the female body with weak connective tissue.

- Stabilises and supports connective tissue
- Improved metabolism
- Supports lymphatic flow
- Decreased skin dimpling



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

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The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.

ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

X-BIONIC®

WOMEN FITNESS CROP TOP

NG-FT14W20W

COMPOSITION
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14% Elastane
1% Polypropylen



ENERGIZER®

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6 HELIXCOIL®

The HelixCoil® spiral surrounds the calf muscles from the ankle to the knee. It supports the muscle effectively and enhances blood circulation.

7 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

8 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM

The high-tech knitting is optimally positioned for more cooling power and perfect climate comfort. The varying construction of Sweat Traps® and 3D Bionic Sphere® System is able to solve the conflict of providing grip whilst transporting sweat and heat.

9 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

10 AIRCONDITIONINGSPOT

The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

11 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and supports without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

X-BIONIC®

WOMEN FITNESS PANTS 7/8

NG-FP50W20W

COMPOSITION
90% Polyamide
5% Polypropylen
5% Elastane



ENERGIZER®

WOMEN

1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 RELIEF ZONE

Allows for 360° mobility of the arms. No pushing and no pulling. Simply a perfect fit.

3 STABILISATION RIBS

The lateral integrated ribs provide additional stability.

4 FORT-X SUPPORT

The x-shaped construction optimally stabilises the breast tissue. The fine, horizontal bars absorb vibrations, absorb moisture immediately and thus prevent chafing. No feeling of wetness: The innovative channel system in the FORT-X Support absorbs excess sweat immediately and causes it to evaporate. If there is no sweat, the air inclusions insulate against cold.

5 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

6 SEAMLESS COMFORT CUPS

The seamless cups are made of extra-fine material to prevent unwanted friction and offer the athlete maximum comfort.

7 ERGONOMIC RELIEF STRAPS

The Ergonomic Relief Straps guarantee secure support.

8 FIT RIBS

The ergonomically shaped straps are narrow in design, lie pressure-free and offer a secure hold.

9 AKTIV-BUND

Keeps the bra from slipping up or constricting.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

WOMEN REVA SPORTS BRA

NG-Y300S19W

COMPOSITION

85% Polyamide
14% Elastane
1% Polypropylen

COMPOSITION MELANGE

45% Polyamide
40% Polyester
14% Elastane
1% Polypropylen



X-BIONIC®

ENERGIZER®

WOMEN

1 FORT-X SUPPORT

The x-shaped construction optimally stabilises the breast tissue. The fine, horizontal bars absorb vibrations, absorb moisture immediately and thus prevent chafing. No feeling of wetness: The innovative channel system in the FORT-X Support absorbs excess sweat immediately and causes it to evaporate. If there is no sweat, the air inclusions insulate against cold.

2 RELIEF ZONE

Allows for 360° mobility of the arms. No pushing and no pulling. Simply a perfect fit.

3 STABILISATION RIBS

The lateral integrated ribs provide additional stability.

4 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

5 SEAMLESS COMFORT CUPS

The seamless cups are made of extra-fine material to prevent unwanted friction and offer the athlete maximum comfort.

6 ELASTIC STRAPS

The elastic straps with adjustment guarantee secure support.

7 FIT RIBS

The ergonomically shaped straps are narrow in design, lie pressure-free and offer a secure hold.

8 AKTIV-BUND

Keeps the bra from slipping up or constricting.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

Intelli yarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

WOMEN SINA SPORTS BRA

NG-Y302S20W

COMPOSITION

85% Polyamide
14% Elastane
1% Polypropylen

COMPOSITION MELANGE

46% Polyamide
43% Polyester
10% Elastane
1% Polypropylen



X-BIONIC®

ENERGIZER®

WOMEN

1 FORT-X SUPPORT

The x-shaped construction optimally stabilises the breast tissue. The fine, horizontal bars absorb vibrations, absorb moisture immediately and thus prevent chafing. No feeling of wetness: The innovative channel system in the FORT-X Support absorbs excess sweat immediately and causes it to evaporate. If there is no sweat, the air inclusions insulate against cold.

2 CLIMATE FIX SYSTEM

The Climate Fix System with 3D structures cools when you sweat and warms when you are cold. It supports your body's own temperature management and prevents overheating and cooling.

3 RELIEF ZONE

Allows for 360° mobility of the arms. No pushing and no pulling. Simply a perfect fit.

4 STABILISATION RIBS

The lateral integrated ribs provide additional stability.

5 SEAMLESS COMFORT CUPS

The seamless cups are made of extra-fine material to prevent unwanted friction and offer the athlete maximum comfort.

6 ERGONOMIC RELIEF STRAPS

The Ergonomic Relief Straps guarantee secure support.

7 FIT RIBS

The ergonomically shaped straps are narrow in design, lie pressure-free and offer a secure hold.

8 AKTIV-BUND

Keeps the bra from slipping up or constricting.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

X-BIONIC®

ENERGIZER®

WOMEN VICTORIA SPORTS BRA

NG-Y301S20W

COMPOSITION

92% Polyamide
7% Elastane
1% Polypropylen

COMPOSITION MELANGE

58% Polyamide
34% Polyester
7% Elastane
1% Polypropylen



WOMEN

1 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHION® TECHNOLOGY

The high-tech knitting is optimally positioned for more cooling power and perfect climate comfort. The varying construction of Sweat Traps® and 3D Bionic Sphere® System is able to solve the conflict of providing grip whilst transporting sweat and heat.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Function.

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 INSULATION ZONE

The 3D structure stores warm air and guarantees optimum insulation.

5 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

6 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHION® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

7 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

8 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

9 ISO RIBS

Enables targeted insulation of individual body parts to protect the body from freezing.

10 AKTIV-BUND

Keeps the pants from slipping up or constricting.



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

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37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.

ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

MEN LT BOXER SHORTS

NG-Y000S19M

COMPOSITION
90% Polyamide
3% Polypropylen
7% Elastane



MEN

X-BIONIC®

ENERGIZER®

1 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM

The high-tech knitting is optimally positioned for more cooling power and perfect climate comfort. The varying construction of Sweat Traps® and 3D Bionic Sphere® System is able to solve the conflict of providing grip whilst transporting sweat and heat.

2 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone.

That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

5 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

6 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

7 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

8 ISO RIBS

Enables targeted insulation of individual body parts to protect the body from freezing.

9 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and supports without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

WOMEN LT BOXER SHORTS

NG-Y000S19W

COMPOSITION
90% Polyamide
3% Polypropylen
7% Elastane



X-BIONIC®
ENERGIZER®

WOMEN

LT BOXER SHORTS
NG-Y000S19M

SIZES: XS S M L XL XXL



B002
OPAL BLACK/
ARCTIC WHITE
- C/O -

W008
ARCTIC WHITE/
DOLOMITE GREY
- C/O -

FITNESS PANTS 7/8
NG-FP50W20W

SIZES: XS S M L XL XXL



P028
BRIGHT LAVENDER/
WHITE
- C/O -

B119
BLACK/
WHITE
- C/O -

LT SINGLET
NG-YT02S19W

SIZES: XS S M L XL XXL



B002
OPAL BLACK/
ARCTIC WHITE
- C/O -

W008
ARCTIC WHITE/
DOLOMITE GREY
- C/O -

FITNESS CROP TOP
NG-FT14W20W

SIZES: XS S M L XL XXL



P028
BRIGHT LAVENDER/
WHITE
- C/O -

B119
BLACK/
WHITE
- C/O -

REVA SPORTS BRA
NG-Y300S19W

SIZES: XS S M L XL XXL



B001
OPAL BLACK
- C/O -

G003
PEARL GREY
MELANGE
- C/O -

W001
ARCTIC WHITE
- C/O -

SINA SPORTS BRA
NG-Y302S20W

SIZES: XS S M L XL XXL

NG-Y302S19W (EOL)



B001
OPAL BLACK
- C/O -

G003
PEARL GREY
MELANGE
- C/O -

W001
ARCTIC WHITE
- C/O -

B001
OPAL BLACK
- EOL -

G003
PEARL GREY
MELANGE
- EOL -

W001
ARCTIC WHITE
- EOL -

VICTORIA SPORTS BRA
NG-Y301S20W

SIZES: XS S M L XL XXL

NG-Y301S19W (EOL)



B001
OPAL BLACK
- C/O -

G003
PEARL GREY
MELANGE
- C/O -

W001
ARCTIC WHITE
- C/O -

B001
OPAL BLACK
- EOL -

G003
PEARL GREY
MELANGE
- EOL -

W001
ARCTIC WHITE
- EOL -

NOTES

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X
X-BIONIC®

🇨🇭 SWISS ENGINEERED
🇮🇹 CRAFTED IN ITALY

turn sweat into energy®
MOTOR SPORTS

version1.0 / 2020

100% RESEARCH, DEVELOPMENT, DESIGN **+** COMMUNICATION DONE IN **SWITZERLAND**



X-BIONIC®

SWISS ENGINEERED

CRAFTED IN ITALY



MOTOR SPORTS

100% RESEARCH, DEVELOPMENT, DESIGN + COMMUNICATION DONE IN SWITZERLAND

TWO WHEEL TO RULE THE ROAD

MIROSLAVA HRENOVCIKOVA, X-BIONIC® ATHLETE



MIROSLAVA HRENOVCIKOVA
X-BIONIC® ATHLETE

Nothing but open road ahead, that's the dream for every cyclist and motorcyclist alike. For XBathlete Miroslava Hrenovcikova that dream becomes reality every time she steps over the saddle and revs the engine of her motorcycle. The peacefulness of the road offers an escape from hectic everyday life. Despite the tranquility the real thrill comes from the adrenaline pumping through her veins, caused by the high risks and high velocity of her sport. The combination of the physical and mental demands requires the right sportswear to allow full concentration and optimal performance temperature. Wanting to perform at her best Miroslava knows she needs the best equipment on the market and that's why she chooses to wear the X-Bionic® Moto Energizer 4.0.

The high velocity of the motorcycle rides takes a high physical toll on the body and the smallest mistake can have serious consequences. Thus, a trustworthy, reliable decision layer is essential.

Miroslava can fully rely on the technology infused the decision layer to let her focus on the road without ever having to worry about being too warm or cold. Especially the additional protection from the AirDuct Pads ensure unique comfort whilst carrying heavy protective gear.

“Sport keeps me disciplined, releases the stress and pressure, while riding a motorcycle brings me to a completely different level. It gives me freedom, teaches me how to be focused and conscious as no mistake is allowed.”



ENERGIZER®4.0

+ 100% SWISS ENGINEERED

IMPROVE YOUR CONCENTRATION. ACCELERATE YOUR PERCEPTION.

Chilled or over-heated riders have lagging concentration. That makes it more important to maintain an optimal body temperature of 37 °C. We take care of that with the patented, extensive and large-scaled 3D Bionic Sphere® System with ThermoSyphon® Technology on the chest and back. This system uses sweat for cooling or creates an insulating layer of air against the body using the chamber system. Thus, it cools when you sweat and warms when you're chilled.

At the same time, X-BIONIC® Partialkompression® keeps riders able to perform longer and provides more safety.



MOTOR SPORTS

MOTOR SPORTS

3D BIONIC® SPHERE SYSTEM WITH ThermoSyphon® Technology

Cools you when you sweat.
Warms when you're cold.



DURING ACTIVITY

Cools when you sweat



DURING RECOVERY

Warms when you are cold

In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR



red dot award 2018 winner



37°C CCR TECHNOLOGY

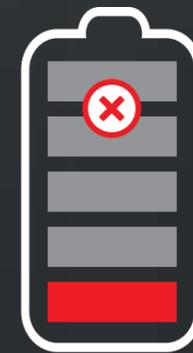
Better performance at the right temperature

"Endurance athletes use up to 97% of their energy in extreme cases just to maintain their optimal body core temperature of 37°C. That leaves only 3% for performance."

Dr. Ückert, Dortmund University.

Energy consumption needed to maintain 37°C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37°C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.



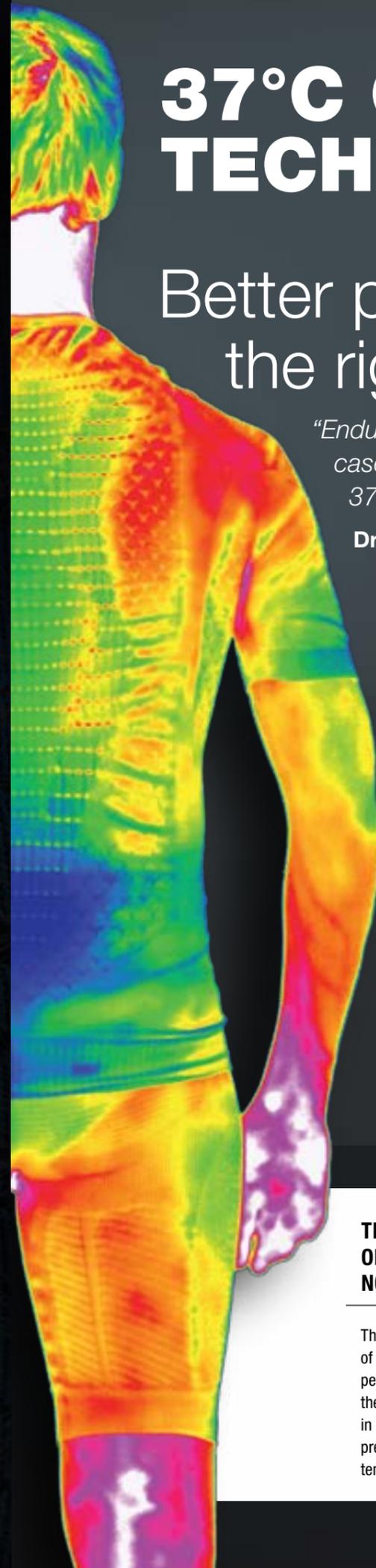
Usable power for your performance without energy-saving technology.



More usable power for your performance with energy-saving technology from X-BIONIC®.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37°C with our patented technologies.



1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 AIRDUCT PADS

The AirDuct Pads offer an effective ventilated padding that distributes the pressure over a large area. At the same time, the 3D knit structure helps to ventilate the sweat-intensive area effectively during the active phase. When you rest, the air trapped in the 5 mm thick chambers acts as insulation.

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 AIRCOMPLEX ZONE

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

5 SWEAT TRAPS® AT THE TAILBONE

The Sweat Traps® at the tailbone are targeted specifically at catching sweat flowing toward the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

6 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

7 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

8 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

9 ISO-SHOULDER

Protects the shoulder region from wind and cold.

10 AIRDUCT HIPPADS

Effectively ventilated pads that spread the external pressure in the hip zone.

11 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

X-BIONIC®

MEN WOMEN MOTO SHIRT LG SL

NG-MT02S19M

COMPOSITION
90% Polyamide
5% Polypropylen
5% Elastane



SUITABLE FOR MEN AND WOMEN.
SIZING IS BASED ON OUR
MEN'S SIZING.



ENERGIZER®

1 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM

The high-tech knitting is optimally positioned for more cooling power and perfect climate comfort. The varying construction of Sweat Traps® and 3D Bionic Sphere® System is able to solve the conflict of providing grip whilst transporting sweat and heat..

2 EXPANSIONKNEE®

Protects from the cold, even when the knee is bent.
Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

3 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

4 PARTIALKOMPRESSION

A new benchmark in compression technology. X-BIONIC® Partialkompression® utilises the advantages of compression without neglecting cooling.

5 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

6 AIRDUCT PADS ON THE UPPER THIGHS

Cushioning and air circulation directly under upper thigh protectors.

7 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

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9 INNERLAP AIRCONDITIONING ZONE

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone.

That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

10 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

11 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

12 AIRCONDITIONINGSPOT

The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

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Calf muscles can cool down quickly, particularly after short pauses and even if the overall body is still heated. This can lead to the risk of injury. The knitted fabric settles itself in a wavy shape over the skin, forming channels for storing air in a manner similar to the ISO-Shoulder.

14 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



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+ 100% SWISS ENGINEERED

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ENERGIZER®

MEN | WOMEN MOTO PANTS

NG-MP02S19M

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WOMEN

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3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

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4 AIRCOMPLEX ZONE

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

5 SWEAT TRAPS® AT THE TAILBONE

The Sweat Traps® at the tailbone are targeted specifically at catching sweat flowing toward the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

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6 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

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9 ISO-SHOULDER

Protects the shoulder region from wind and cold.

10 AIRDUCT HIPPADS

Effectively ventilated pads that spread the external pressure in the hip zone.

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MEN WOMEN MOTO SHIRT LT LG SL

NG-MT00S19M

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ENERGIZER®

MEN WOMEN **MOTO LT PANTS 3/4**

NG-MP01S19M

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+ 100% SWISS ENGINEERED

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MEN | WOMEN | MOTO LT PANTS

NG-MP00S19M

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 10% Elastane
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 SIZING IS BASED ON OUR
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ENERGIZER®

WOMEN

MOTO SHIRT LG SL
NG-MT02S19M

SIZES: XS S M L XL XXL



B019
OPAL BLACK/
SIGNAL RED
- C/O -

MOTO PANTS
NG-MP02S19M

SIZES: XS S M L XL XXL



B019
OPAL BLACK/
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MOTO SHIRT LT LG SL
NG-MT00S19M

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B025
CHARCOAL/
PEARL GREY
- C/O -

MOTO LT PANTS 3/4
NG-MP01S19M

SIZES: XS S M L XL XXL



B025
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B025
CHARCOAL/
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NOTES

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NOTES

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 SWISS ENGINEERED
 CRAFTED IN ITALY

COMBAT & HUNT

turn sweat into energy®

COMBAT & HUNT

version1.0 / 2020

100% RESEARCH, DEVELOPMENT, DESIGN  COMMUNICATION DONE IN SWITZERLAND



X-BIONIC®

SWISS ENGINEERED

CRAFTED IN ITALY



COMBAT & HUNT

100% RESEARCH, DEVELOPMENT, DESIGN + COMMUNICATION DONE IN SWITZERLAND

3D BIONIC® SPHERE SYSTEM WITH ThermoSyphon® Technology

Cools you when you sweat.
Warms when you're cold.



DURING ACTIVITY

Cools when you sweat



DURING RECOVERY

Warms when you are cold

In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

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red dot award 2018 winner

37°C CCR TECHNOLOGY

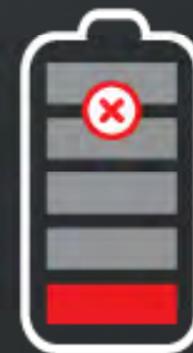
Better performance at the right temperature

"Endurance athletes use up to 97 % of their energy in extreme cases just to maintain their optimal body core temperature of 37 °C. That leaves only 3 % for performance."

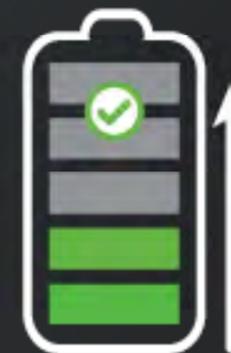
Dr. Ückert, Dortmund University.

Energy consumption needed to maintain 37° C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37° C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.



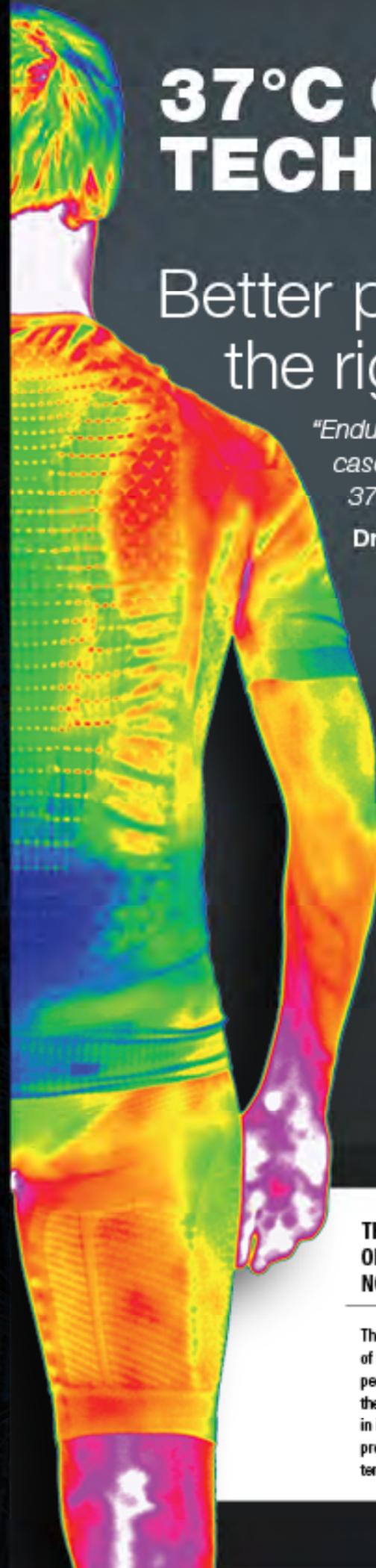
Usable power for your performance without energy-saving technology.



More usable power for your performance with energy-saving technology from X-BIONIC®.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37° C with our patented technologies.



WINNERS NEED AWARD WINNING CLOTHING TEAM OMEGA , X-BIONIC® ATHLETES



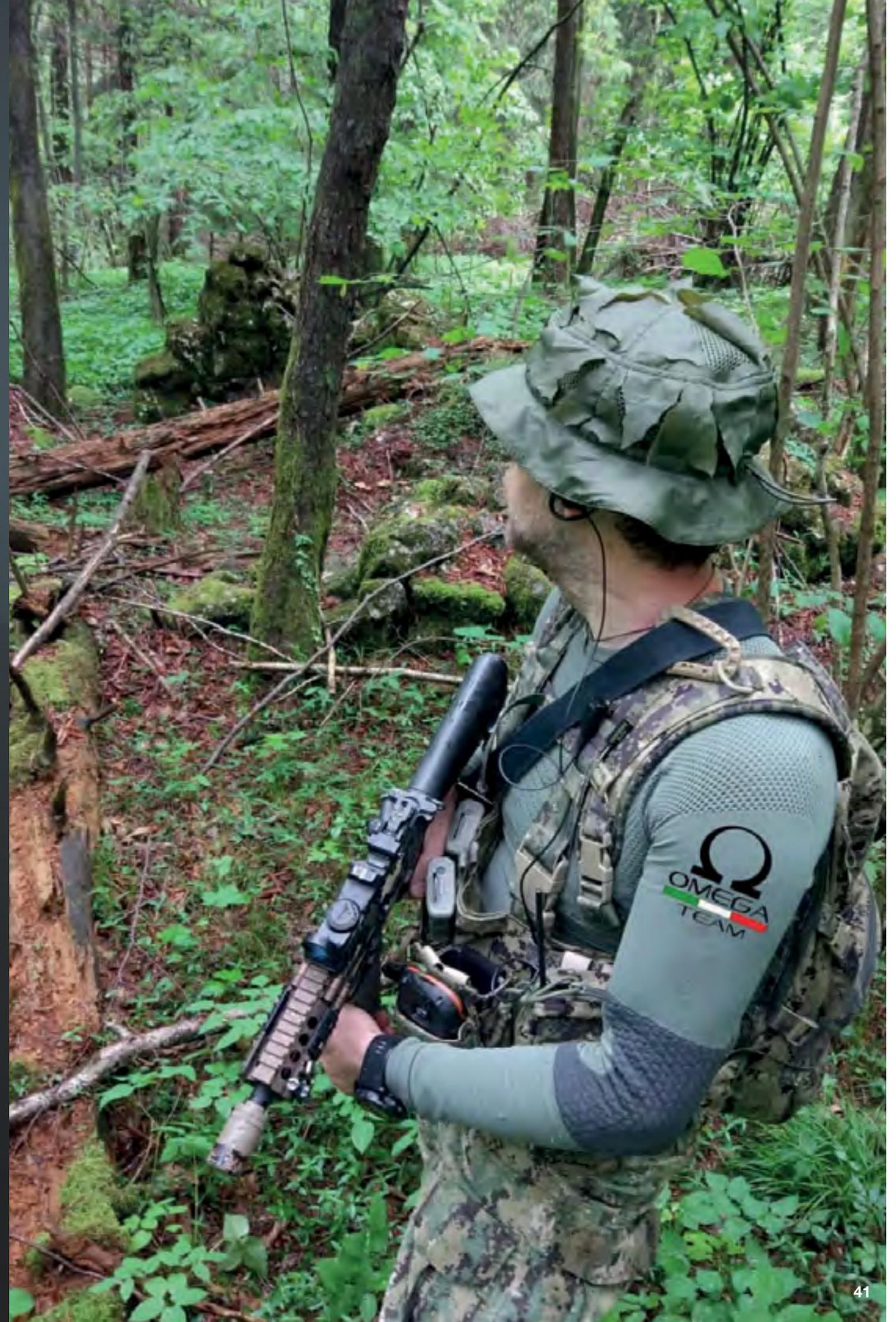
Team Omega
AIRSOFT ATHLETES

Perfection. Nothing else matters when the alternative is losing. And losing is not an option for Team Omega Vicenza. The XBathlete team strives towards winning one title after another in the Italian Airsoft scene. The competitions can take longer than 24 hours and include seemingly endless hikes and forces the contestants to surpass high altitudes whilst lugging around all their equipment. The equipment tends to get heavier with every step, especially once you start adding on altitude ascends, now add on having to perfect the possibly most important element of Airsoft, shooting. Being able to master the hiking and heavy equipment won't be able to get you the win unless you still have the energy to shoot accurately. Thanks to the X-BIONIC HUNT ENERGIZER® 4.0 the Team is able to depend on energy reserves that the functional sportswear makes possible. The patented X-Bionic Partialkompression® and the AirDuct Pads allow the athletes to have energy reserves at the crucial moments of the competition.

The Airduct Pads provide extra protection against the heavy backpacks and also help with the ventilation process, ensuring that the athletes can perform at their best.

The eight men team know that they can fully trust their functional sportswear to get them to next level.

“You can't wait, you can't lay down - not even for a second - because there are more than 20 other competitors who want to win against you. Every minute you lay down is a wasted minute and can cost your team the win! Thanks to X-Bionic we have to take less breaks and know that we can trust in our equipment, to achieve the best possible result.”



ENERGIZER® 4.0

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SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

Every deployment is a challenge. The innovative Energizer® 4.0 Combat is always the best choice. The strong performance of the temperature-regulating features reduces soldiers' sweat, but doesn't put a stop to it completely. Only that way can they maintain a perfect body temperature of 37 °C in critical situations and, thus, can stay ready-to-go to fulfill their duties precisely.

A special padding system allows air flow across the back and cushions the sweat-intensive contact points of the backpack on the shoulders and hips. Outstanding warm insulation offers a highly developed system of chambers on the elbows and knees. One performance-enhancing extra: X-BIONIC® Partialkompression® optimises blood flow.



COMBAT

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2 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research.

The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

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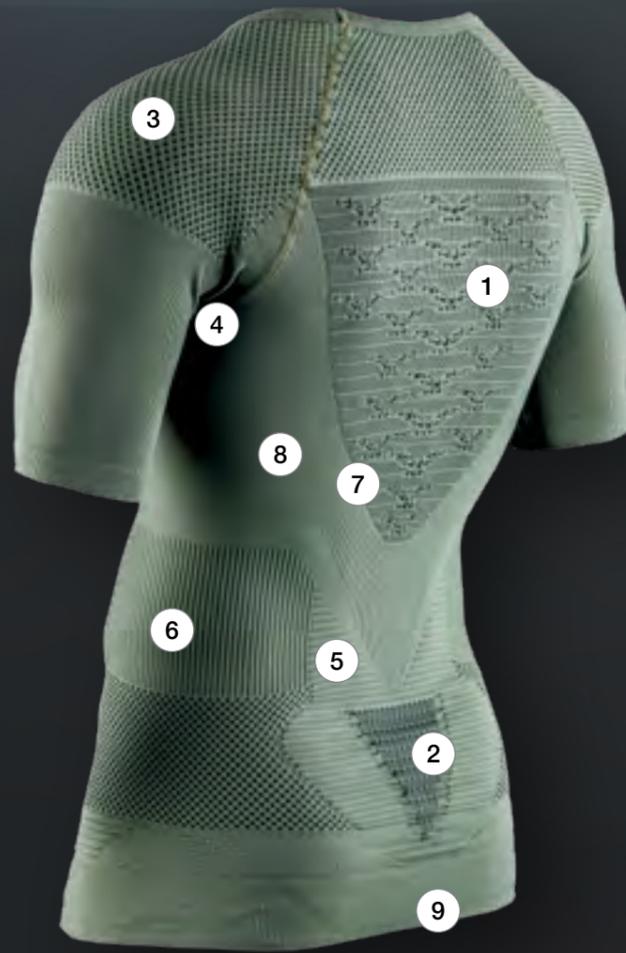
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X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

X-BIONIC®

ENERGIZER®

MEN WOMEN COMBAT SHIRT SH SL

NG-CT12S20M

COMPOSITION
87% Polyamide
7% Polypropylen
6% Elastane



WOMEN

1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

3 AIRDUCT PADS

The AirDuct Pads offer an effective ventilated padding that distributes the pressure over a large area. At the same time, the 3D knit structure helps to ventilate the sweat-intensive area effectively during the active phase. When you rest, the air trapped in the 5 mm thick chambers acts as insulation.

4 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

5 SWEAT TRAPS® AT THE LOWER BODY

The Sweat Traps® at the tailbone are targeted specifically at catching sweat flowing toward the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

6 CHAMBER SYSTEM PROTECTOR

The 3D-honeycomb structure at the elbow protects against overcooling. It traps a layer of insulating air which works even in a bent position.

7 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

8 AIR GUIDES®

The Air-Conditioning Channels® are framed in Air Guides® so that they can also work effectively under a second layer. The evaporation rate is increased.

9 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

10 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

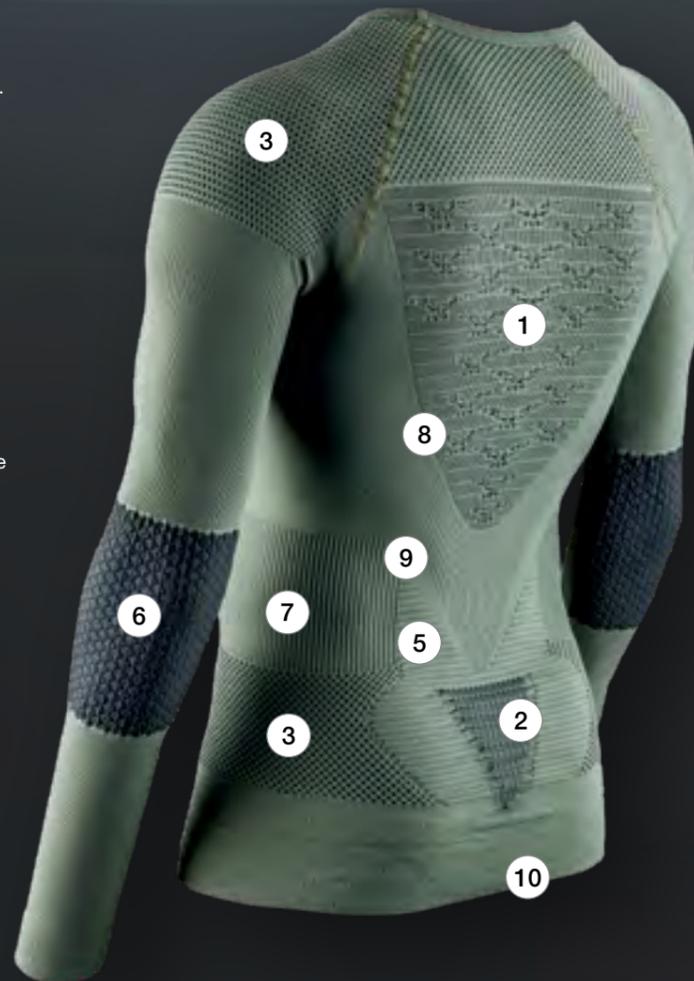
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+ 100% SWISS ENGINEERED

X-BIONIC®

MEN WOMEN COMBAT SHIRT LG SL

NG-CT06W19M

COMPOSITION
87% Polyamide
7% Polypropylen
6% Elastane

ENERGIZER®



1 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM

The high-tech knitting is optimally positioned for more cooling power and perfect climate comfort. The varying construction of Sweat Traps® and 3D Bionic Sphere® System is able to solve the conflict of providing grip whilst transporting sweat and heat.

2 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY AT THE TAILBONE

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

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3 CHAMBER SYSTEM PROTECTOR

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6 INNERLAP AIRCONDITIONING ZONE

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

7 AIRCONDITIONINGSPOT

The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

8 AKTIV-BUND

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XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

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ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

MEN | WOMEN COMBAT PANTS

NG-CP05W19M

COMPOSITION
87% Polyamide
7% Polypropylen
6% Elastane



X-BIONIC®

ENERGIZER®

WOMEN

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The ergonomically shaped waistband provides a better fit during movement.

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ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

MEN COMBAT BOXER SHORTS

NG-C011S20M

COMPOSITION
87% Polyamide
7% Polypropylen
6% Elastane



MEN

X-BIONIC®

ENERGIZER®

ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

FOR ANYONE WHO IS HUNTING FOR THE PERFECT SOLUTION

Whenever concentration, precision and control are critical, perfection in apparel is also demanded. X-BIONIC® offers highly technical gear that optimally supports the hunter stalking his prey. Time spent in the stand demands patience. A silent wait for just the right moment. On late autumn days, temperatures drop down to colder ranges. That's when the air channels of the Hunting underwear begin to warm you. Warmed air is stored next to the body and keeps the cold at bay. Whether on a thrilling hunt or the long trek to the stand: Hunters place high demands on the body. The unique sweat management system of X-BIONIC® absorbs sweat and uses it to cool you. The hunter stays perfectly temperature-regulated.



HUNT

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ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

MEN HUNT LT SHIRT SH SL

NG-HT01S19M

COMPOSITION
87% Polyamide
7% Polypropylen
6% Elastane



X-BIONIC®

ENERGIZER®

WOMEN

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ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

MEN HUNT SHIRT LG SL

NG-HT00S19M

COMPOSITION
87% Polyamide
7% Polypropylen
6% Elastane



X-BIONIC®
ENERGIZER®

1 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM

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3 PARTIALKOMPRESSION

A new benchmark in compression technology. X-BIONIC® Partialkompersion® utilises the advantages of compression without neglecting cooling.

4 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

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12 ISO-CALFPAD

Calf muscles can cool down quickly, particularly after short pauses and even if the overall body is still heated. This can lead to the risk of injury. The knitted fabric settles itself in a wavy shape over the skin, forming channels for storing air in a manner similar to the ISO-Shoulder.

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X-BIONIC®

ENERGIZER®

MEN | WOMEN HUNT LT PANTS

NG-HP00S19M

COMPOSITION
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WOMEN

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+ 100% SWISS ENGINEERED

X-BIONIC®

MEN | WOMEN HUNT PANTS

NG-HP05W19M

COMPOSITION
87% Polyamide
7% Polypropylen
6% Elastane



ENERGIZER®

COMBAT SHIRT SH SL
 NG-CT12S20M

SIZES: XS S M L XL XXL



E052
 OLIVE GREEN/
 ANTHRACITE
 - C/O -

B137
 BLACK/
 ANTHRACITE
 - C/O -

COMBAT SHIRT LG SL
 NG-CT06W19M

SIZES: XS S M L XL XXL



E052
 OLIVE GREEN/
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COMBAT PANTS
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E052
 OLIVE GREEN/
 ANTHRACITE
 - C/O -

B137
 BLACK/
 ANTHRACITE
 - C/O -

COMBAT BOXER SHORTS
 NG-C011S20M - MEN

SIZES: XS S M L XL XXL



E052
 OLIVE GREEN/
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B137
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HUNT LT SHIRT SH SL
 NG-HT01S19M

SIZES: XS S M L XL XXL



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 - C/O -

HUNT LT PANTS
 NG-HP00S19M

SIZES: XS S M L XL XXL



E052
 OLIVE GREEN/
 ANTHRACITE
 - C/O -

HUNT PANTS
 NG-HP05W19M

SIZES: XS S M L XL XXL



E052
 OLIVE GREEN/
 ANTHRACITE
 - C/O -

NOTES

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X
X-BIONIC®

🇨🇭 SWISS ENGINEERED
🇮🇹 CRAFTED IN ITALY

turn sweat into energy®
WINTER SPORTS

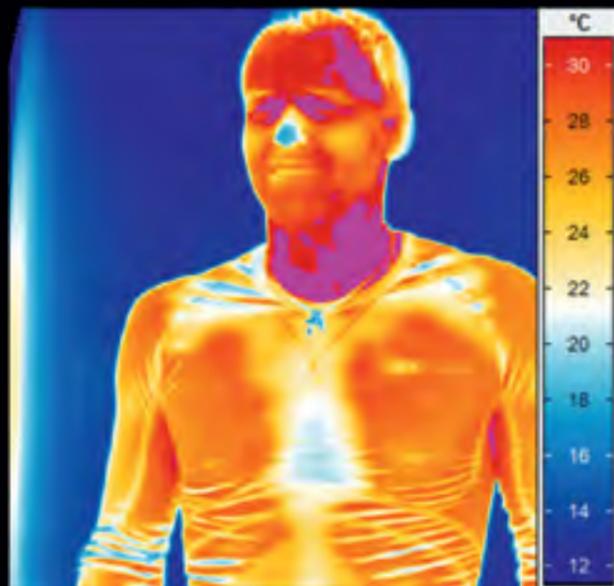
version 1.0 / 2020

100% RESEARCH, DEVELOPMENT, DESIGN **+** COMMUNICATION DONE IN SWITZERLAND

MINUS 50°C PROVES THE DIFFERENCE

In high-tech labs, scientists simulate the lowest temperatures. X-BIONIC® utilises such laboratories for its production that is uncompromising in its scientific demands.

We aren't satisfied until the body heat camera shows perfect functionality of our products in the transition from normal to super low temperatures. That proves that even minus 50 degrees Celsius doesn't have to be so scary - if you are protected by X-BIONIC®.



BEFORE THE 3-MINUTE TEST:
X-BIONIC® releases excess body heat (red) and cools you with the 3D Bionic Sphere® System in the cold-sensitive chest (white).



AFTER THE THE 3-MINUTE TEST:
X-BIONIC® releases body heat in a targeted manner only in the underarms (red) and protects the body surface from cooling down (blue/black).



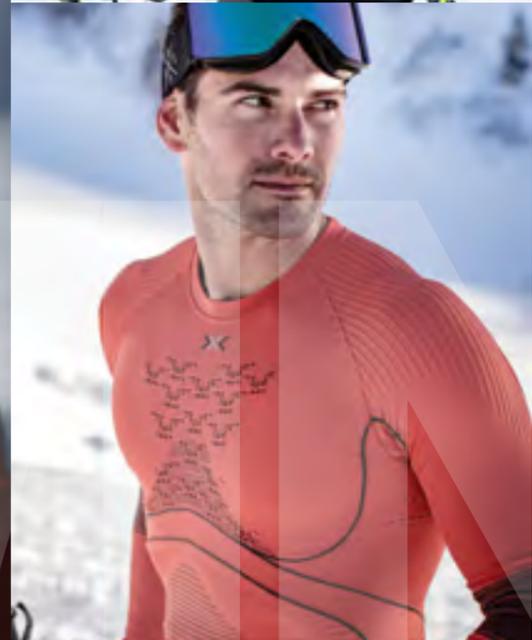
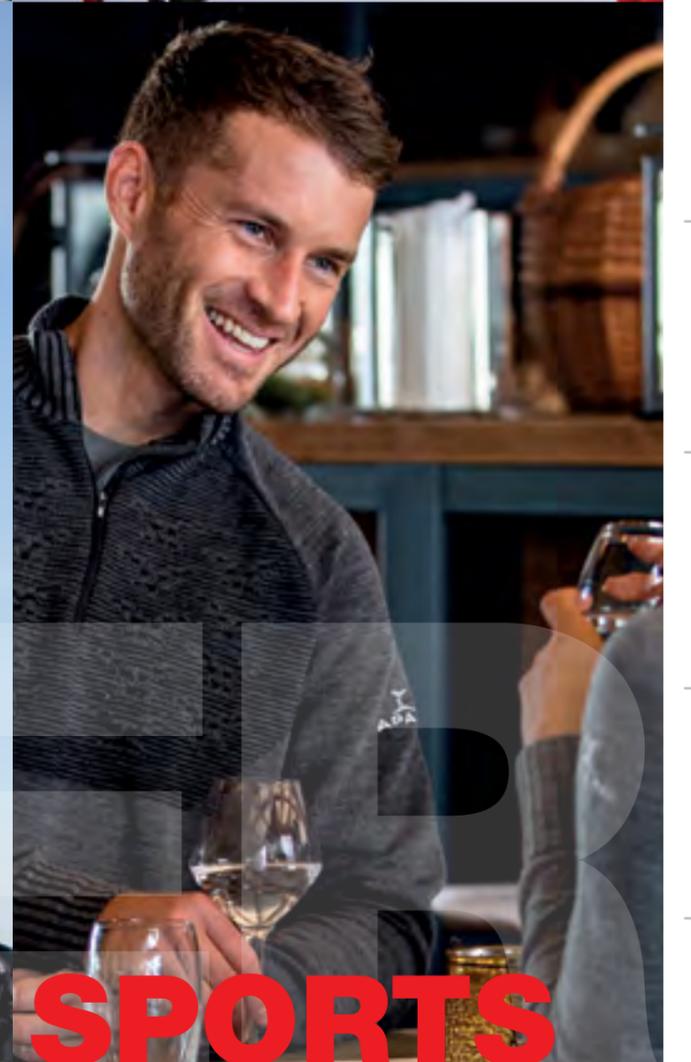
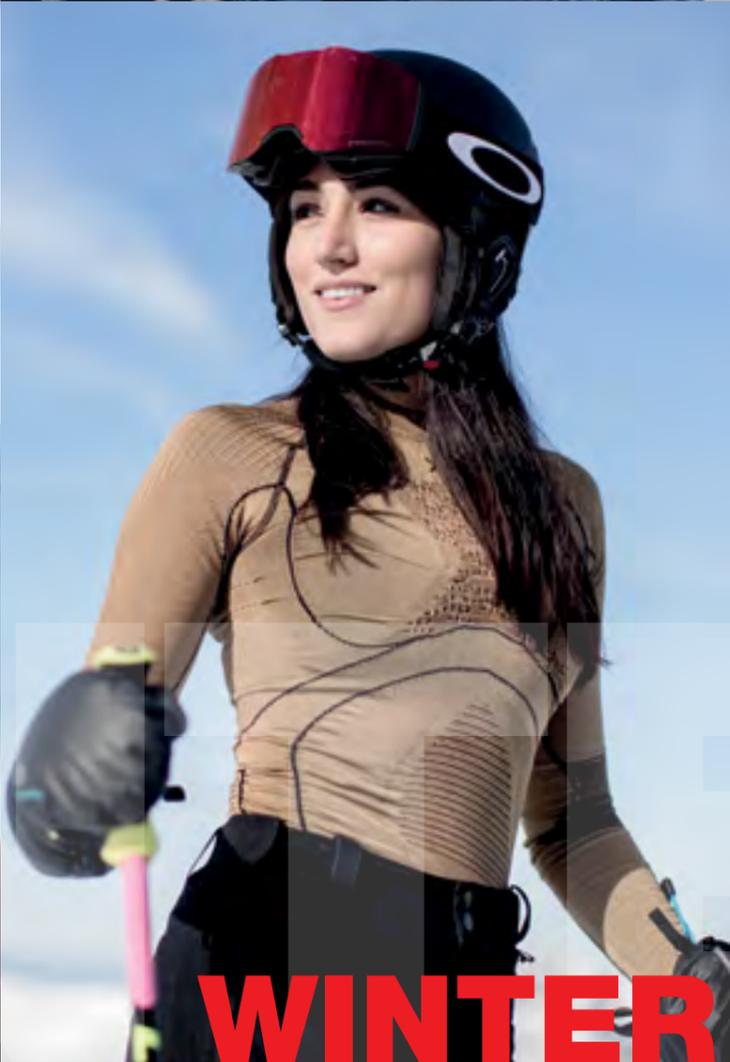
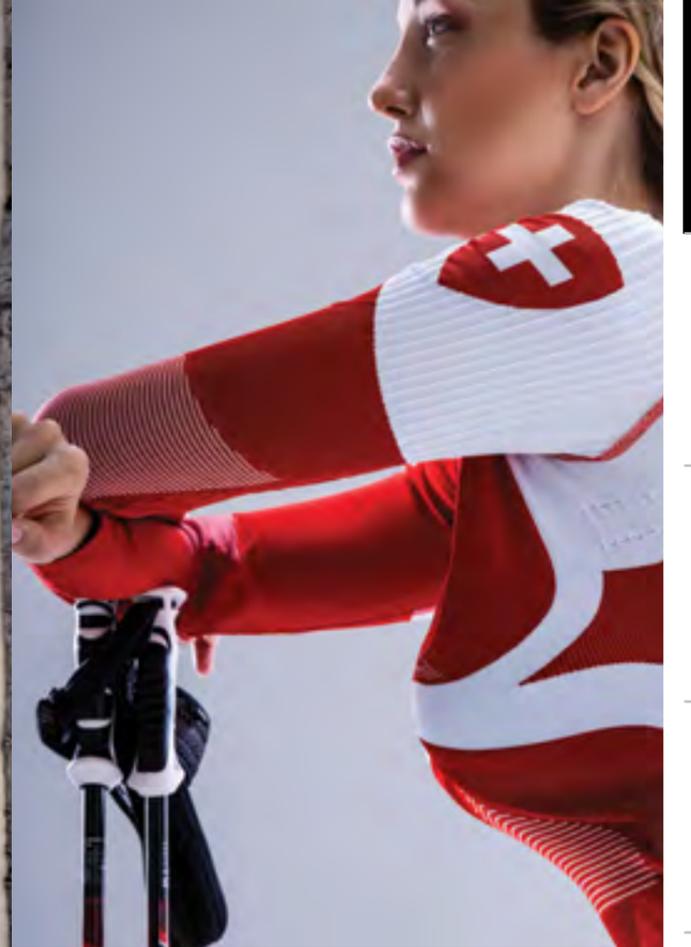
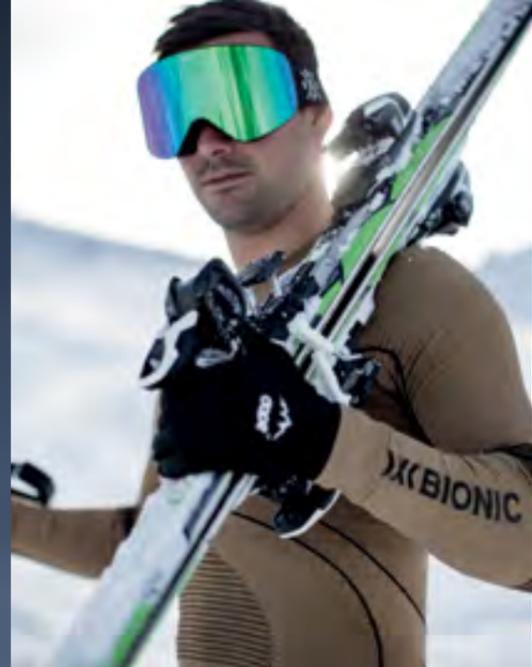
The InfraTec body heat camera VarioCAM® high resolution doesn't lie. It proves whether the athlete interface functions or not in extreme temperature variations and extreme cold. The thermographic image, left, shows the athlete before the cold test. X-BIONIC® masters the task presented to effectively keep the body cool. In the yellow areas of the image you can see excess warmth being released to the ambient air. In the image, right, the conditions have totally changed. The cold chamber simulates freezing temperatures. Here, X-BIONIC® releases only a small amount of very targeted warmth. The body, which holds onto its warmth, remains protected from the cold.

X-BIONIC® protects the body through a fully integrated system of effective components. The 3D Bionic Sphere® System insulates with tunnels and channels. The AirComPlex-Zone protects the solar plexus from freezing. ISO-Pads warm the hips and gluteals, the ISO-Shoulder protects the shoulders, and the Expansion Ribs®, the knees and elbows. With its construction based on the accordion principle it doesn't stretch out and thin when the joint is flexed. Cold chambers and thermographic cameras reveal every weakness of athletic apparel at minus 50 degrees Celsius. But X-BIONIC® Interfaces don't have any weaknesses. That of course is asserted by other manufacturers about their products. But we can actually prove it.



X-BIONIC®

SWISS ENGINEERED
CRAFTED IN ITALY



WINTER SPORTS

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

STEFI TROGUET, #XBATHLETE, ON THE TOP OF MOUNT MANASLU, HER SECOND 8000M ASCENT



Stefi Troguet
PROFESSIONAL ATHLETE

After successfully conquering her second eight-thousand-meter mountain, the Mount Manaslu (8163m - Nepal), without oxygen, Stefi Troguet returned back home to Andorra in September 2019 to prepare for the next climb, another 8000-meter peak.

We don't have to think back far to remember a time when mountaineering was a sport reserved for men, but now it's impossible to envision this sport without Stefi. She has helped shape the path for more female mountain climbers, something that she values equally to her success of climbing 8000m mountains.

Her path to 8000m glory started with the ninth highest mountain in the world, the Nanga Parbat (8126m - Pakistan). It was a totally different experience compared to climbing Mount Manaslu; "It has been a very different way to live this sport and the mountain, since there were almost 800 people who tried to reach the summit with the oxygen". In contrary to the majority of these alpinists, Stefi experiences the "death zone" without oxygen but instead with the help of her temperature regulating sportswear.

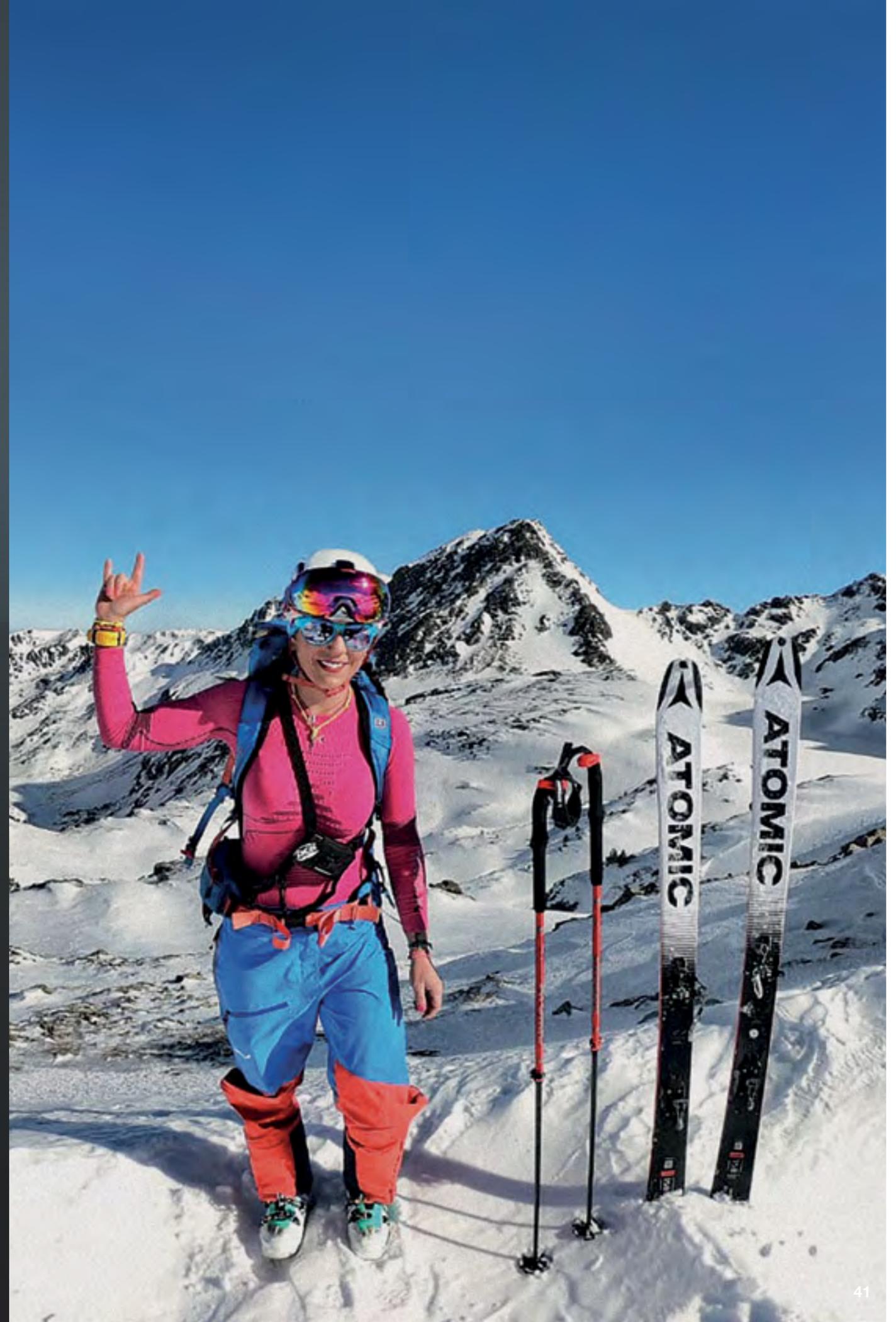
8000-meter mountains can't just be climbed, they must be conquered and in order to do this you have to have the right equipment. "Having the best equipment and clothing gives you a greater chance of achieving your dream of reaching the summit, this is why I have chosen since years to wear X-Bionic®. On my last summits, I used the Apani® and Energy Accumulator® 4.0 products, which without any doubt helped me to survive in these extreme conditions".

Even though Stefi reached her goal of ascending the eighth highest mountain in the world, the Manaslu summit, she is still dreaming big. Despite experiencing difficult moments during her Nepal trip, she knew that her mental toughness and training, paired with her fighting spirit would allow her to reach the summit. "In Nepal I had very difficult moments and I thought I would die, I'm sure that without those products and the rest of the top equipment I had, I would not be here today talking about it"

The goal is clear: Reach all fourteen 8.000m peaks in the world. Without oxygen.

Stefi has her eyes set on the next set of 8000m peaks already, Gasherbrum 2 (8.035m), Broad Peak (8.047m) and Gasherbrum 1 (8.068m). For her next challenge Stefi has placed her trust in climate-regulating clothing from X-Bionic® once again:

"It keeps me warm during rest periods, when I'm at risk of freezing. At the same time when I start to perspire, a fine, imperceptible film of moisture is left on my skin and cools me down. It's just incredible and through these technologies I'm able to maintain my energy levels efficiently. Without these technologies my body would burn more energy regulating its temperature than it would for my actual athletic performance."



ENERGY ACCUMULATOR® 4.0

+ 100% SWISS ENGINEERED

THE MOST INNOVATIVE PERFORMANCE-ENHANCEMENT

ENERGY ACCUMULATOR® 4.0 is the result of 20 years of constant development and improvement. Featuring the award winning 3D Bionic Sphere® System with ThermoSyphon® Technology and the RETINA® ultra-high-resolution quality, the X-BIONIC® ENERGY ACCUMULATOR® 4.0 represents the pinnacle of high-tech performance wear. Efficiently cooling you when you sweat and warming you when you are cold. Turning sweat into energy.



WINTER SPORTS

WINTER SPORTS

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

ENERGY ACCUMULATOR® 4.0

+ 100% SWISS ENGINEERED

HISTORY IS MADE TO BE BEATEN!

Introducing **the best X-BIONIC® Energy Accumulator ever**. Developed from superior technology. For the greatest heroes of the world of sports.

The X-BIONIC® Energy Accumulator, is the world's most advanced Decision Layer. In the years following its invention, it has been thoroughly optimized in every detail. Now 2019 bring two of the biggest developmental leaps.



2000

2001 2002 2003 2004

2005

2006 2007

2008

2009

2010

2011 2012

2013

2014 2015 2016 2017 2018

2019

2020

V 1.0



ENERGY ACCUMULATOR®
When scientists, physicians and competitive athletes came together. Even the first version cooled, warmed and dried wherever it was needed. And not only where it could. The various performance-enhancing functions were revolutionary long before body mapping.

V 2.0



ENERGY ACCUMULATOR® V 2.0
Details are no minor matter. You are the product. Even then, X-BIONIC® used elements with compression on the thigh. The good news was: The ENERGY ACCUMULATOR® gives you more power. The bad news: Your opponents too.

V 2.1



ENERGY ACCUMULATOR® V 2.1
More performance without doping. Top athletes and professionals won world championship titles and gold medals with it. In an international comparison, the ENERGY ACCUMULATOR® is probably the most awarded underwear. And the development continues.

EVO



ENERGY ACCUMULATOR® EVO
The next step in evolution: Enhanced Expansion Ribs®, enhanced 3D Bionic Sphere® System on the chest, enhanced ISO-Pads, enhanced ExpansionKnee, enhanced X-BIONIC® Partalkompression®.

PATRIOT



PATRIOT ENERGY ACCUMULATOR® EVO
Successful athletes from all over the world share the passion for perfect technique. They are winners, inspire fans, and create moments of the highest enthusiasm. The Patriot Edition of the X-BIONIC® ENERGY ACCUMULATOR® EVO was created for them.

PATRIOT 4.0



ENERGY ACCUMULATOR® 4.0 PATRIOT EDITION
The evolution of the ENERGY ACCUMULATOR® reaches a new peak. ThermoSyphon® technology makes the award-winning, patented 3D Bionic Sphere® system even more powerful. Ultra-high-resolution Retina® manufacturing enables extremely high active density, more precisely positioned active zones and more intensive functional transmission.

20 YEARS

OF RESEARCH AND DEVELOPMENT

prepared the Energy Accumulator 4.0 for the most rigorous test available – the Audi Wind Tunnel. The Energy Accumulator 4.0 didn't just set a new personal benchmark for X-Bionic®, but also surpassed all previously tested products, setting a new standard for aerodynamics, being the fastest decision layer ever measured in Audi Wind Tunnel.



reddot award 2018 winner



Gold Winner

X-BIONIC®
ENERGY ACCUMULATOR®
PATRIOT EDITION
RADIATOR®
APANI MERINO®
INVENT®
ENERGIZER®
JACKETS
COMPLIMENTARY

4mm

MORE DISTANCE
ISO-SHOULDER

The distance between the ridges has been doubled, and the area up to the middle of the tricep enlarged. The result: 50 % larger storage capacity for warmth and better insulation.

21

FUNCTIONAL DETAILS:
THE EXPANSION RIBS®

The Expansion Ribs® of the elbow pads reveal their insulation air cushioning only in the flexed state. Your elbows won't be affected by the winter chill once the knit unfolds with its accordion principle. The flexibility of the Expansion Ribs® and the elasticity of the yarns makes it possible to have complete freedom of movement. Your muscles won't show signs of fatigue, and they'll be better insulated.

220%

ENLARGED
**3D BIONIC SPHERE® SYSTEM
WITH THERMOSYPHON® TECHNOLOGY**

It takes 58 cm³ of volume to buffer the cold or the heat 15 minutes longer at temperatures of 5 degrees Celsius. The secondary evaporation surface can enlarge up to 124 % in its expanded state.

114cm²

MORE INSULATION
AIRCOMPLEX-ZONE

Vital nerve endings come together on the solar plexus. It took 10 years of experience to teach us that this is where thermo-regulation can be directly affected. It took 23 horizontal crimps over 144 cm² to help you better regulate your temperature fluctuations. How thick? In the non-expanded state, 5 mm per crimp.

5200

DAYS OF RESEARCH
AND DEVELOPMENT

Evolution takes time: X-BIONIC® invested 5200 days of research and development in the Energy Accumulator®. The newest model - the Energy Accumulator® 4.0 - was 98% newly constructed to achieve decisive improvements in dimensions of performance.

220

MORE NEEDLES, MORE PRECISION
RETINA® TECHNOLOGY

The innovative RETINA® ultra-high-definition technology makes it possible to build a superior class of functional clothing for performance beyond anything ever achieved before.

5200

DAYS OF **RESEARCH, DEVELOPMENT,
DESIGN & COMMUNICATION DONE IN SWITZERLAND**

The Swiss scientists have perfected their performance-enhancing system with continued development that resulted in the Energy Accumulator® 4.0. A higher degree of effectiveness is achieved by the larger dimensions of the 3D Bionic Sphere® System with ThermoSyphon® Technology on the chest.

New 3D structures protect the sensitive nerve command center of the solar plexus. The revolutionary X-BIONIC® Partialkompression® provides for more performance: only with it can sweat-cooled blood circulate freely under the skin's surface and protect the athlete from overheating.

1.25mm

WIDER CHANNELS
AIR GUIDES®

More stable and defined in design, the Air Guides® carry fresh air around the body.

23cm²

LARGER INSULATION SURFACE
ISO-PADS

The ISO-Pads on the hips each consist of 11 channels and continue all the way up to the waistband. Your internal organs are well-protected from the cold over a larger surface.

6

ADDITIONAL CHAMBERS
EXPANSIONKNEE®

Bend your knee and and unfolded are 31 air channels to keep the joint warm.

X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

3D BIONIC® SPHERE SYSTEM WITH ThermoSyphon® Technology

Cools you when you sweat.
Warms when you're cold.



DURING ACTIVITY

Cools when you sweat



DURING RECOVERY

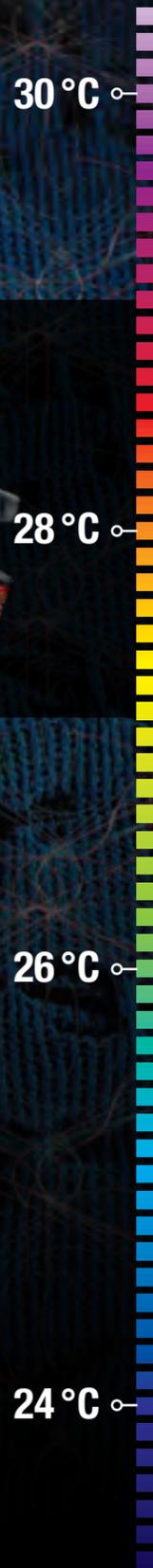
Warms when you are cold

In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR



red dot award 2018 winner



37°C CCR TECHNOLOGY

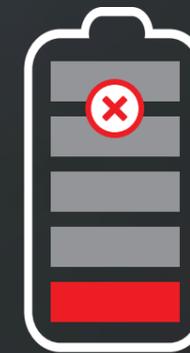
Better performance at the right temperature

"Endurance athletes use up to 97% of their energy in extreme cases just to maintain their optimal body core temperature of 37°C. That leaves only 3% for performance."

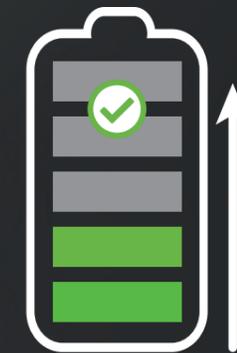
Dr. Ückert, Dortmund University.

Energy consumption needed to maintain 37°C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37°C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.



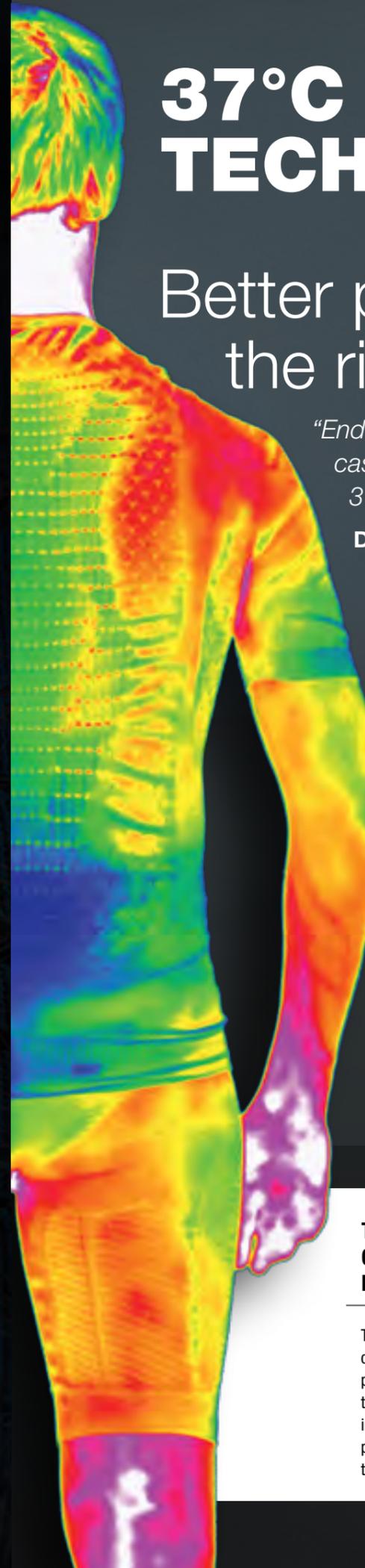
Usable power for your performance without energy-saving technology.



More usable power for your performance with energy-saving technology from X-BIONIC®.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37°C with our patented technologies.



X-BIONIC® PARTIALKOMPRESSION®

A new benchmark in compression technology. Partialkompression® by X-BIONIC® utilizes the advantages of compression without neglecting cooling.

During sport activities body warmth is created. In extreme situations up to 1,200 watts worth. Up to 90% of this is released by the athlete from the skin to maintain a body temperature of 37 °C. X-BIONIC® Partialkompression® applies targeted pressure on 1mm wide ridges. Left and right of the ridge is a compression-free area where compression could have a negative effect on blood circulation to the skin. In this way the blood flow through veins and capillaries remain unimpeded.

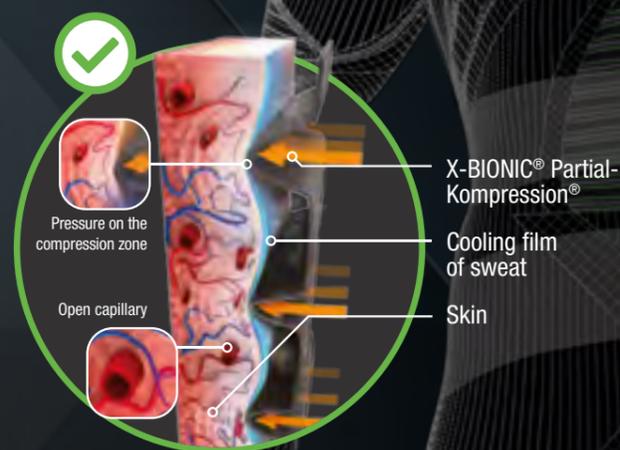
Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

THE RESULTS ARE REVOLUTIONARY:

- Reduces muscle vibration
- Improves muscle uptake of oxygen and nutrients
- Speeds recovery

+ COOLING MECHANISM

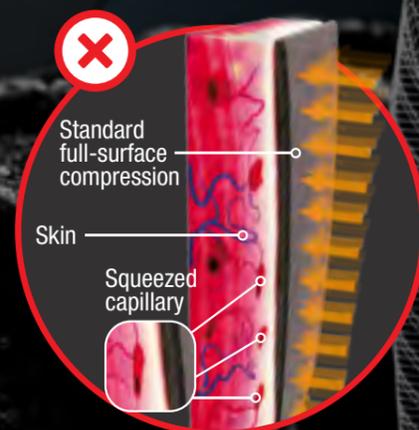
Partialkompression® uses the skin as a surface for cooling and, thus, can take advantage of the body's personal micro-climate for optimising performance.



X-BIONIC® PARTIALKOMPRESSION®

keeps the capillaries open.

→ The body cools down



Standard, full-surface compression chokes the blood vessels.

→ The body overheats

First the pressure increases, then your performance:

X-IMPACT TECHNOLOGY

As soon as your muscles quiver from fatigue, their lack of strength will hinder your performance. And athletic success will slip farther from your grasp. Decision Layer by X-BIONIC® is the intelligent technical base layer that thanks to compression can help athletes again edge closer to success because it stabilises active muscles. They don't quiver; rather they can more effectively use the energy resources that are there for the taking. Even in the more advanced stages of races you'll be able to fully rely on your muscles with X-BIONIC®. Even when you already have the championship in your grasp.

Optimal oxygen uptake and nutrient supplies for your body also are an important foundation for athletic success. If you are hungry for victory, you can't let your body starve in any stage of the race. X-Impact Technology stabilises your capillaries and veins. It takes the stress off your circulatory system and quickly supplies muscles and organs with performing-enhancing oxygen and nutrients. Your body can tap into all of its resources at the right time so you can be victorious in the tough races.



Improved oxygen and nutrient supply to the muscles



Reduction of muscle vibrations

1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 AIRCOMPLEX ZONE ON THE UPPER ABDOMEN

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

4 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

5 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

6 ISO-SHOULDER

Protects the shoulder region from wind and cold.

7 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

8 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

9 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

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10 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



ENERGY ACCUMULATOR® 4.0

+ 100% SWISS ENGINEERED

MEN SHIRT ROUND NECK LG SL

EA-WT06W19M

COMPOSITION
88% Polyamide
7% Elastane
5% Polypropylene



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

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COMPLIMENTARY

MEN

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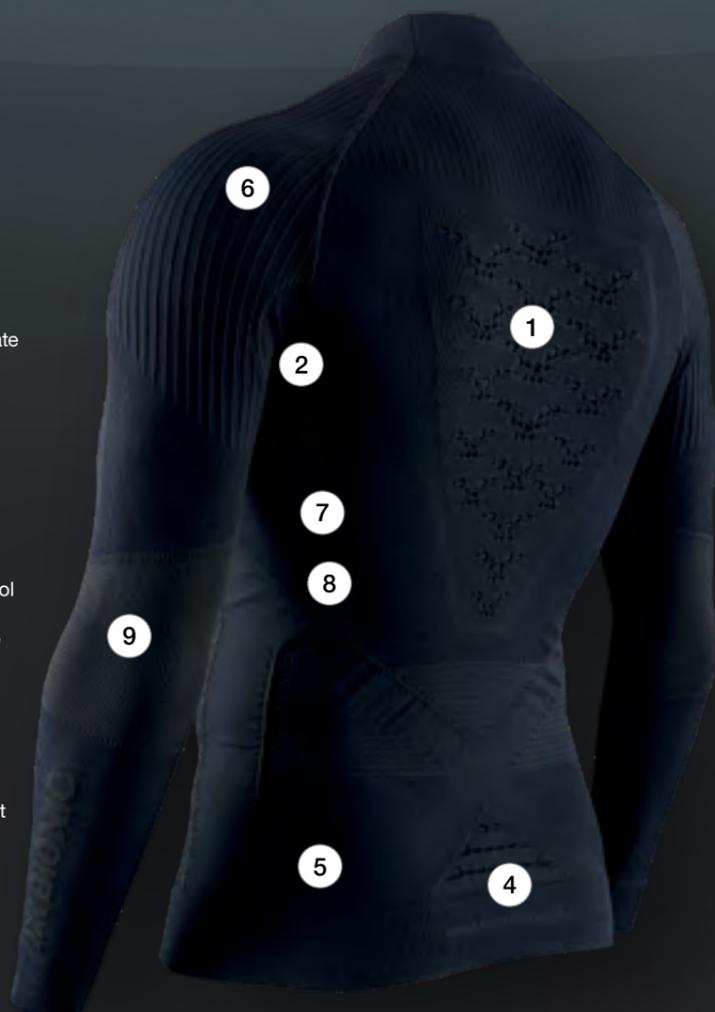
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+ 100% SWISS ENGINEERED

MEN SHIRT TURTLE NECK LG SL

EA-WT18W19M

COMPOSITION
90% Polyamide
5% Polypropylen
5% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

1 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM

The high-tech knitting is optimally positioned for more cooling power and perfect climate comfort. The varying construction of Sweat Traps® and 3D Bionic Sphere® System is able to solve the conflict of providing grip whilst transporting sweat and heat.

2 X-BIONIC® PARTIALKOMPRESSION®

A new benchmark in compression technology. X-BIONIC® Partialkompression® utilises the advantages of compression without neglecting cooling.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

3 EXPANSIONKNEE®

The accordion-like construction of the ExpansionRibs® retains its insulating properties rather than losing them when the knee is bent.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB,

GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

4 INTERCOOLER

This 3D construction collects perspiration on the upper thigh and maintains it directly upon the skin so that it can evaporate optimally yet directly on this important muscle group. Between periods of exertion, the Interc cooler Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

5 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO-Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

6 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads over the hipbones retain body heat that is necessary to guarantee interior organ functionality.

7 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB,

IT, NL, NO, PL, RO, SE, SI, SK, TR

8 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

9 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® dissipates heat at a controlled rate.

The fine knitted structure immediately ducts moisture away.

10 AIRCONDITIONINGSPOT

Since the back of the knees start to sweat quickly and also sweat profusely, we have integrated a fine, open mesh knit there. With the help of body warmth, excess sweat is pushed outward where it can evaporate without risk of chills.

11 AKTIV-BUND®

Keeps the pants from slipping or constricting.

12 IDEO-WAISTBAND

Ergonomically shaped waistband for better fits during movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

Inteliyarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



ENERGY ACCUMULATOR® 4.0

+ 100% SWISS ENGINEERED

MEN PANTS 3/4

EA-WP07W19M

COMPOSITION
90% Polyamide
5% Polypropylen
5% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

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Calf muscles can cool down quickly, particularly after short pauses and even if the overall body is still heated. This can lead to the risk of injury. The knitted fabric settles itself in a wavy shape over the skin, forming channels for storing air in a manner similar to the ISO-Shoulder.

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Keeps the pants from slipping or constricting.

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Ergonomically shaped waistband for better fits during movement.

RETINA®

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INTELLIYARNS®

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XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

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ENERGY ACCUMULATOR® 4.0

+ 100% SWISS ENGINEERED

MEN PANTS

EA-WP05W19M

COMPOSITION
88% Polyamide
7% Elastane
5% Polypropylen



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

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Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 AIRCOMPLEX ZONE ON THE UPPER ABDOMEN

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

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6 ISO-SHOULDER

Protects the shoulder region from wind and cold.

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8 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

9 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

10 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

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ENERGY ACCUMULATOR® 4.0

+ 100% SWISS ENGINEERED

MELANGE SHIRT ROUND NECK LG SL

MEN

EA-WT41W19M

COMPOSITION
55% Polyamide
35% Polyester
7% Polypropylen
3% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

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4 INTERCOOLER

This 3D construction collects perspiration on the upper thigh and maintains it directly upon the skin so that it can evaporate optimally yet directly on this important muscle group. Between periods of exertion, the Interc cooler Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

5 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO-Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

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7 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB,

IT, NL, NO, PL, RO, SE, SI, SK, TR

8 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

9 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® dissipates heat at a controlled rate.

The fine knitted structure immediately ducts moisture away.

10 AIRCONDITIONINGSPOT

Since the back of the knees start to sweat quickly and also sweat profusely, we have integrated a fine, open mesh knit there. With the help of body warmth, excess sweat is pushed outward where it can evaporate without risk of chills.

11 AKTIV-BUND®

Keeps the pants from slipping or constricting.

12 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

RETINA®

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INTELLIYARNS®

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ENERGY ACCUMULATOR® 4.0

+ 100% SWISS ENGINEERED

MEN MELANGE PANTS 3/4

EA-WP42W19M

COMPOSITION
55% Polyamide
35% Polyester
7% Polypropylen
3% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

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Protects from the cold, even when the knee is bent.

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GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

4 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

5 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

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10 AIRCONDITIONINGSPOT

The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

11 ISO-CALFPAD

Calf muscles can cool down quickly, particularly after short pauses and even if the overall body is still heated. This can lead to the risk of injury. The knitted fabric settles itself in a wavy shape over the skin, forming channels for storing air in a manner similar to the ISO-Shoulder.

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RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

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XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

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MEN MELANGE PANTS

EA-WP41W19M

COMPOSITION
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3 AIRCOMPLEX ZONE ON THE UPPER ABDOMEN

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

4 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

5 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

6 ISO-SHOULDER

Protects the shoulder region from wind and cold.

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ENERGY ACCUMULATOR® 4.0

+ 100% SWISS ENGINEERED

WOMEN SHIRT ROUND NECK LG SL

EA-WT06W19W

COMPOSITION
88% Polyamide
7% Elastane
5% Polypropylen



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

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WOMEN

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The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

10 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

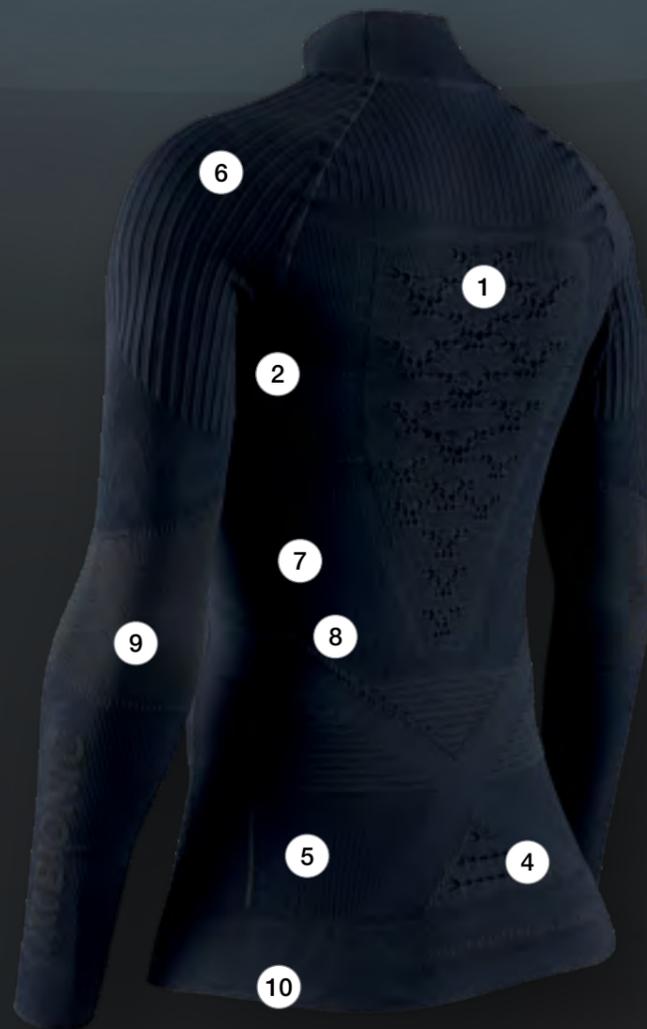
SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



ENERGY ACCUMULATOR® 4.0

+ 100% SWISS ENGINEERED

WOMEN SHIRT TURTLE NECK LG SL

EA-WT18W19W

COMPOSITION
90% Polyamide
5% Polypropylen
5% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

1 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 X-BIONIC® PARTIALKOMPRESSION®

A new benchmark in compression technology. X-BIONIC® Partialkompression® utilises the advantages of compression without neglecting cooling.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

3 EXPANSIONKNEE®

Protects from the cold, even when the knee is bent.

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4 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

5 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

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7 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

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The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

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RETINA®

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ENERGY ACCUMULATOR® 4.0

+ 100% SWISS ENGINEERED

WOMEN PANTS 3/4

EA-WP07W19W

COMPOSITION
90% Polyamide
5% Polypropylen
5% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

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JACKETS

COMPLIMENTARY

WOMEN

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The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

13 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

RETINA®

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H-DRY TECHNOLOGY

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ENERGY ACCUMULATOR® 4.0

+ 100% SWISS ENGINEERED

WOMEN PANTS

EA-WP05W19W

COMPOSITION
88% Polyamide
7% Elastane
5% Polypropylen



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

WOMEN

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2 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 AIRCOMPLEX ZONE ON THE UPPER ABDOMEN

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

4 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

5 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

6 ISO-SHOULDER

Protects the shoulder region from wind and cold.

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+ 100% SWISS ENGINEERED

MELANGE SHIRT ROUND NECK LG SL

WOMEN

EA-WT41W19W

COMPOSITION
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35% Polyester
7% Polypropylen
3% Elastane



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ENERGY ACCUMULATOR®

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RADIATOR®

APANI MERINO®

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COMPLIMENTARY

WOMEN

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+ 100% SWISS ENGINEERED

WOMEN MELANGE PANTS 3/4

EA-WP42W19W

COMPOSITION
55% Polyamide
35% Polyester
7% Polypropylen
3% Elastane



X-BIONIC®

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PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

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JACKETS

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EA-WP41W20W

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3% Elastane



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APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

X-BIONIC ENERGY ACCUMULATOR® 4.0
DECISION LAYER | MEN

X-BIONIC ENERGY ACCUMULATOR® 4.0
DECISION LAYER | WOMEN

ENERGY ACCUMULATOR® 4.0
+ 100% SWISS ENGINEERED

SHIRT ROUND NECK LG SL
EA-WT06W19M

SIZES: XS S M L XL XXL



SHIRT TURTLE NECK LG SL
EA-WT18W19M

SIZES: XS S M L XL XXL



SHIRT ROUND NECK LG SL
EA-WT06W19W

SIZES: XS S M L XL XXL



SHIRT TURTLE NECK LG SL
EA-WT18W19W

SIZES: XS S M L XL XXL



PANTS 3/4
EA-WP07W19M

SIZES: XS S M L XL XXL



PANTS
EA-WP05W19M

SIZES: XS S M L XL XXL



PANTS 3/4
EA-WP07W19W

SIZES: XS S M L XL XXL



PANTS
EA-WP05W19W

SIZES: XS S M L XL XXL



MELANGE SHIRT ROUND NECK LG SL
EA-WT41W19M

SIZES: XS S M L XL XXL



MELANGE PANTS 3/4
EA-WP42W19M

SIZES: XS S M L XL XXL



MELANGE PANTS
EA-WP41W19M

SIZES: XS S M L XL XXL



MELANGE SHIRT ROUND NECK LG SL
EA-WT41W19W

SIZES: XS S M L XL XXL



MELANGE PANTS 3/4
EA-WP42W19W

SIZES: XS S M L XL XXL



MELANGE PANTS
EA-WP41W20W

SIZES: XS S M L XL XXL



NOTES

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ENERGY
ACCUMULATOR® 4.0

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HIGHEST PERFORMANCE FOR COMPETITIVE ATHLETES IN COLD CLIMATES

Successful athletes from all over the world share the passion for perfect technique. They are winners, inspire fans, and create moments of the highest enthusiasm. The Patriot Edition of the ENERGY ACCUMULATOR® 4.0, containing our patented 3D Bionic Sphere® System with ThermoSyphon® Technology and the Ultra-high-resolution Retina®, was created for them.



WINTER SPORTS

X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

ENERGY ACCUMULATOR® 4.0

+ 100% SWISS ENGINEERED

HISTORY IS MADE TO BE BEATEN!

Introducing **the best X-BIONIC® Energy Accumulator ever**. Developed from superior technology. For the greatest heroes of the world of sports.

The X-BIONIC® Energy Accumulator, is the world's most advanced Decision Layer. In the years following its invention, it has been thoroughly optimized in every detail. Now 2019 bring two of the biggest developmental leaps.



2000

2001 2002 2003 2004

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2006 2007

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2013

2014 2015 2016 2017 2018

2019

2020

V 1.0



V 2.0



V 2.1



EVO



PATRIOT



PATRIOT 4.0



20 YEARS

OF RESEARCH AND DEVELOPMENT

prepared the Energy Accumulator 4.0 for the most rigorous test available – the Audi Wind Tunnel. The Energy Accumulator 4.0 didn't just set a new personal benchmark for X-Bionic®, but also surpassed all previously tested products, setting a new standard for aerodynamics, being the fastest decision layer ever measured in Audi Wind Tunnel.

ENERGY ACCUMULATOR®
When scientists, physicians and competitive athletes came together. Even the first version cooled, warmed and dried wherever it was needed. And not only where it could. The various performance-enhancing functions were revolutionary long before body mapping.

ENERGY ACCUMULATOR® V 2.0
Details are no minor matter. You are the product. Even then, X-BIONIC® used elements with compression on the thigh. The good news was: The ENERGY ACCUMULATOR® gives you more power. The bad news: Your opponents too.

ENERGY ACCUMULATOR® V 2.1
More performance without doping. Top athletes and professionals won world championship titles and gold medals with it. In an international comparison, the ENERGY ACCUMULATOR® is probably the most awarded underwear. And the development continues.

ENERGY ACCUMULATOR® EVO
The next step in evolution: Enhanced Expansion Ribs®, enhanced 3D Bionic Sphere® System on the chest, enhanced ISO-Pads, enhanced ExpansionKnee, enhanced X-BIONIC® Partalkompression®.

PATRIOT ENERGY ACCUMULATOR® EVO
Successful athletes from all over the world share the passion for perfect technique. They are winners, inspire fans, and create moments of the highest enthusiasm. The Patriot Edition of the X-BIONIC® ENERGY ACCUMULATOR® EVO was created for them.

ENERGY ACCUMULATOR® 4.0 PATRIOT EDITION
The evolution of the ENERGY ACCUMULATOR® reaches a new peak. ThermoSyphon® technology makes the award-winning, patented 3D Bionic Sphere® system even more powerful. Ultra-high-resolution Retina® manufacturing enables extremely high active density, more precisely positioned active zones and more intensive functional transmission.



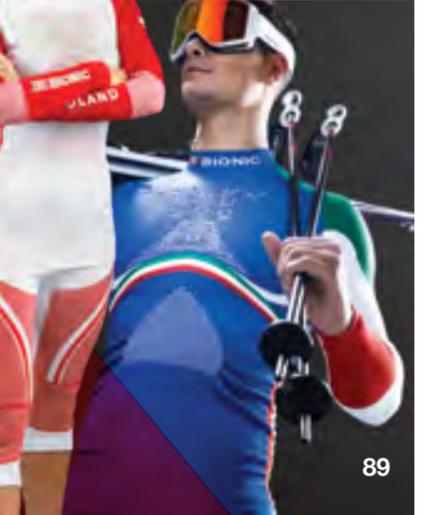
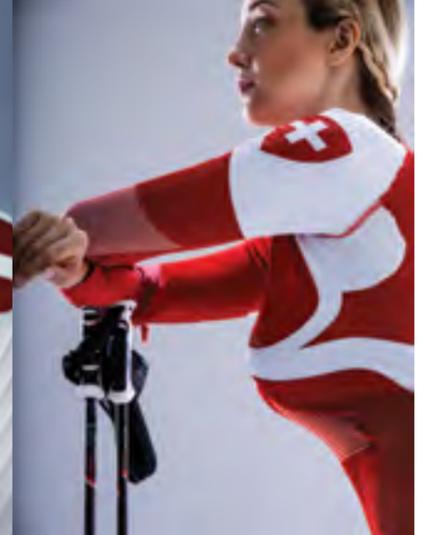
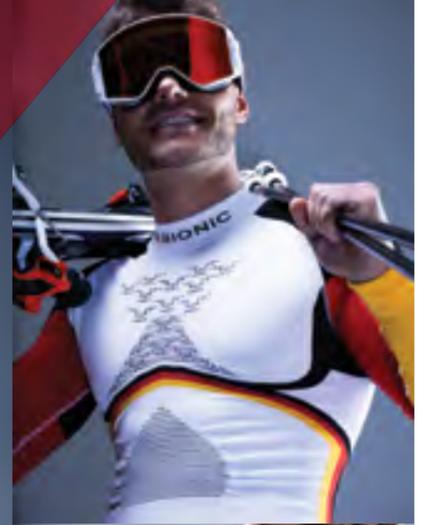
X-BIONIC®
ENERGY ACCUMULATOR®
PATRIOT EDITION
RADIATOR®
APANI MERINO®
INVENT®
ENERGIZER®
JACKETS
COMPLIMENTARY

THE LAND THAT YOU LOVE WITH THE POWER THAT YOU SEEK

In your veins - The pure will to win.
On your skin the colours of your nation.
Our X-BIONIC® Limited Patriot Edition

Only products that win multiple awards and satisfy strict conditions make it into our Patriot Collectors Edition and therefore into our sports hall of fame in strictly limited numbers.

The first to make it was the X-BIONIC® Energy Accumulator® EVO, our high technology skiing underwear. This unique product was created within 3,552 days of engineering development work. It has won lots of awards, has been tested extensively by the Swiss and Russian international teams and has been worn for thousands of hours by athletes all over the world. That was reason enough for us to place this product at the heart of our Limited Patriot Edition. In the meantime, we have added the Limited Patriot Edition with High-Tech Shirts for running and cycling as well as matching X-SOCKS® and complementary (accessories) for each sport.



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PERFECT TECHNOLOGY FOR VICTORY

PATRIOT: ENERGY ACCUMULATOR 4.0

3,552 Days of research and development

We have been continuously optimising the technology carrier X-BIONIC® Energy Accumulator® for over 16 years. Its performance has improved with each year. Every year, there are more trophies - today, it's at the forefront with 16 internationally reputable design awards. Let alone countless test victories.

This makes us very proud and gives us the ambition to make it even better. With the Energy Accumulator® EVO a refined product has been to precision work. We aren't changing the entire concept, but we have perfected every detail.

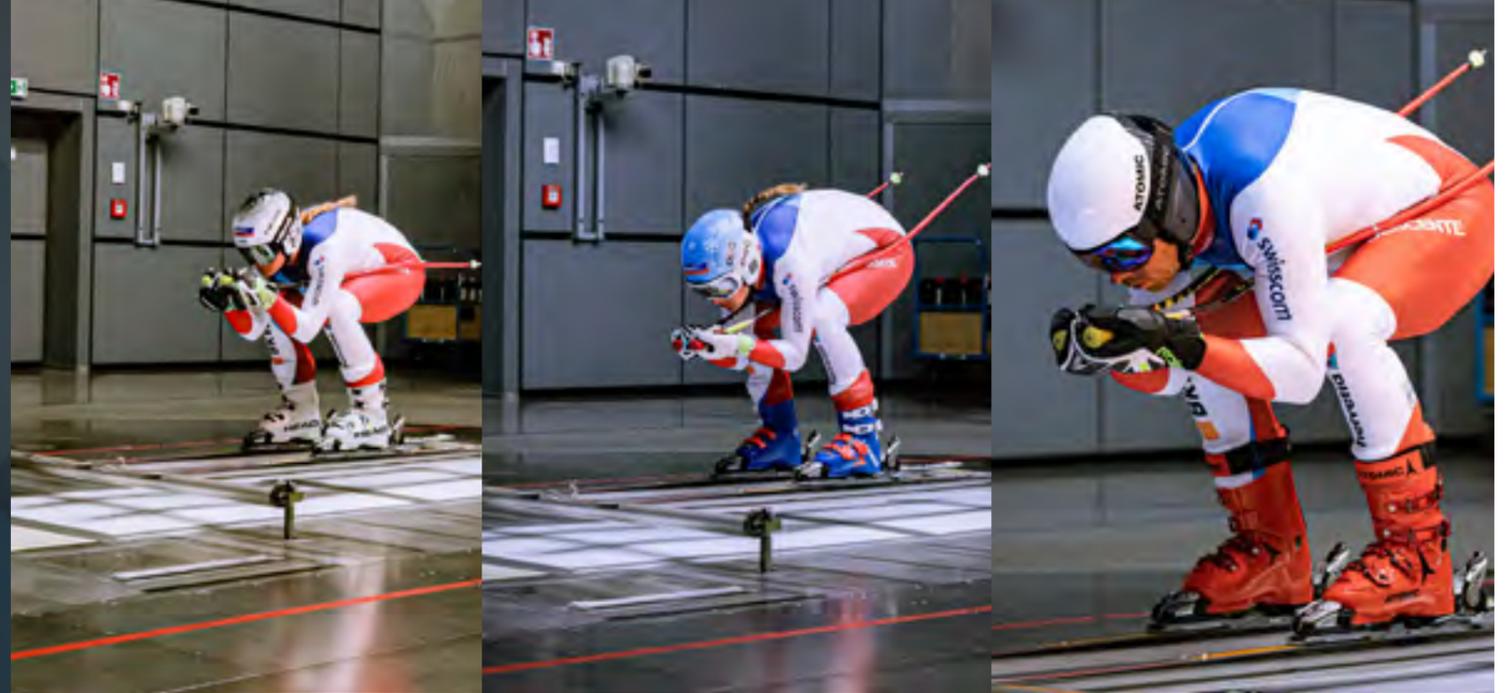
If you optimise individual features, you end up improving the entire system.

It's not about an entire revolution any more. The Energy Accumulator® EVO has already achieved that. This is now all about evolution.

The Patriot Edition adds another quality to the technical master piece that is the Energy Accumulator® EVO. For the first time, it doesn't just mobilise physical power. But also the mental power plant. If you manage that, you can feel the power of a whole nation. And get to peak performance more than ever.

"In all my years of experience, the new and last 4.0 Energy Accumulator is the best they have developed, the best I've seen"

Herr Karl Frehsner



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

RECORD-BREAKING PERFORMANCE

LEADS THE X-BIONIC® & SWISS SKI PARTNERSHIP TO HISTORIC WIN OF THE NATIONS CUP!

The Swiss Ski Alpine Team is back on the throne, winning the Nations Cup – ending Austria's 30 year reign

Wollerau, Switzerland, 20 March - After 31 years the Swiss Ski Alpine Team is back at the top. With more than a 1000 ranking points difference to the second placed Austria, the X-Bionic® sponsored team won the nation's ranking. On top of the Nations Cup, the Swiss athletes dominated the individual rankings as well, winning in all speed categories whilst wearing the record-breaking X-Bionic® gear.

In September 2019, prior to the 2019/2020 Alpine ski season launch, the Swiss Ski Team met up with the X-Bionic® team to test the new X-Bionic® Energy Accumulator 4.0. As "Most Innovative Brand of the Year", for 11 years in a row, X-Bionic® focuses on perfecting every detail of their luxury supersportswear, resulting in athletes wearing their clothing winning more than 1200 medals. The new 4.0 edition of the functional ski underwear integrates protective and thermoregulatory features such as X-Bionic's patented Partialkompression®, which optimizes blood circulation and skin cooling. 20 years of research and development prepared the Energy Accumulator 4.0 for the most rigorous test available – the Audi wind-tunnel. The Energy Accumulator 4.0 didn't just set a new personal benchmark for X-Bionic®, but also surpassed all previously tested products, setting a new standard for aerodynamics, being the fastest gear ever measured in Audi Wind Tunnel.

Equipped with the Energy Accumulator 4.0 Patriot Edition, the Swiss Ski Alpine Team improved their performance substantially, claiming 47 podium places and five individual category wins. Despite the season being cut short due to the COVID-19 pandemic, this is the most podium places Switzerland won in a single alpine season since 1992. 11 of these podiums were celebrated from the top of the step with Daniel Yule (3), Beat Feuz (2), Lara Gut-Behrami (2), Corinne Suter (2), Loic Meillard (1) and Marco Odermatt (1) winning.

Winning the Nations Cup was truly a team effort, with no less than 40 athletes, all equipped with the record-breaking X-Bionic® Energy Accumulator 4.0, contributing towards the 8732 World Cup points that the team secured throughout the season. Mauro Caviezel (Super G), Beat Feuz (Downhill), Corinne Sutter (Super G & Downhill) and Loic Meillard (Parallel) all capped off their excellent individual efforts, with a Crystal ball, thus crowning them as World Nr.1 in their category.

"The 2019/2020 season was a historic one for the Swiss Alpine Ski Team and X-Bionic®. Ten more podium finishes than last year, despite eight less races, five individual category wins and winning the nation's category provides both a challenge and an opportunity for us to beat our own record next year." Commented Christian Zingg, CEO of the Swiss Ski Pool.

"This is a great result for the team, and we are happy and thankful at the same time, to share these emotions with the Swiss Ski National Team, in what can only be described as one of the most bizarre moments of sports history due to the current situation. Next year we will come back even stronger and we hope that this situation finds a quick end definite end." Commented Aitor Henao Soto, Head of Marketing & Communications for X-Bionic®.



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3D BIONIC® SPHERE SYSTEM WITH ThermoSyphon® Technology

Cools you when you sweat.
Warms when you're cold.



DURING ACTIVITY

Cools when you sweat



DURING RECOVERY

Warms when you are cold

In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR



red dot award 2018 winner



37°C CCR TECHNOLOGY

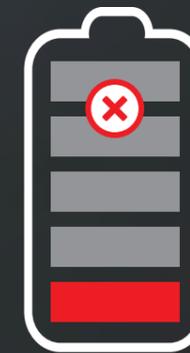
Better performance at the right temperature

"Endurance athletes use up to 97% of their energy in extreme cases just to maintain their optimal body core temperature of 37°C. That leaves only 3% for performance."

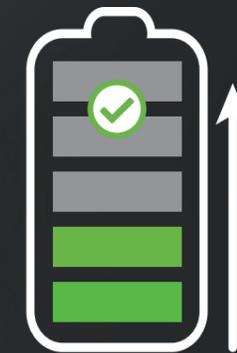
Dr. Ückert, Dortmund University.

Energy consumption needed to maintain 37°C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37°C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.



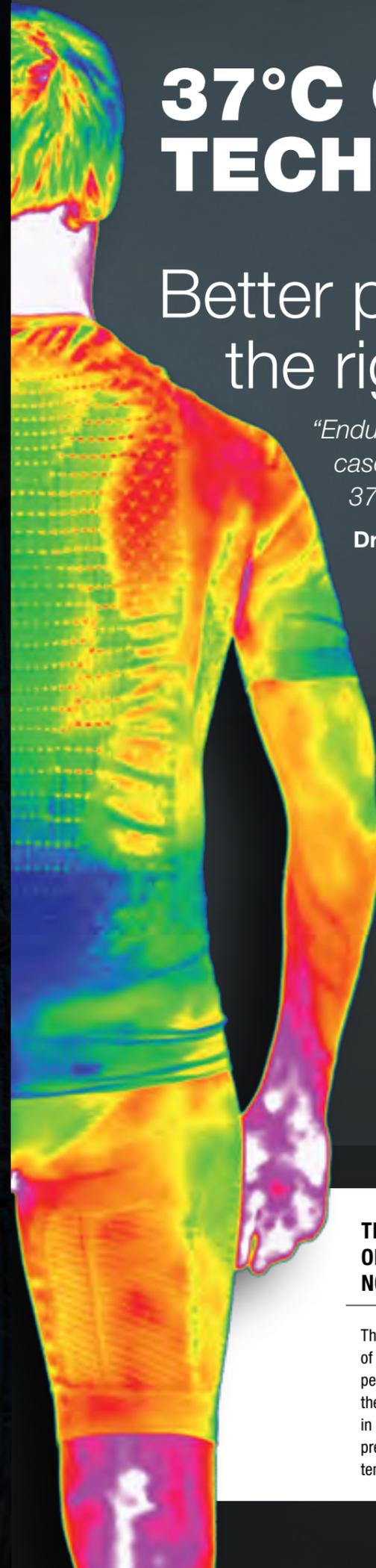
Usable power for your performance without energy-saving technology.



More usable power for your performance with energy-saving technology from X-BIONIC®.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37°C with our patented technologies.



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COMPLIMENTARY

X-BIONIC® PARTIALKOMPRESSION®

A new benchmark in compression technology. Partialkompression® by X-BIONIC® utilizes the advantages of compression without neglecting cooling.

During sport activities body warmth is created. In extreme situations up to 1,200 watts worth. Up to 90% of this is released by the athlete from the skin to maintain a body temperature of 37 °C. X-BIONIC® Partialkompression® applies targeted pressure on 1mm wide ridges. Left and right of the ridge is a compression-free area where compression could have a negative effect on blood circulation to the skin. In this way the blood flow through veins and capillaries remain unimpeded.

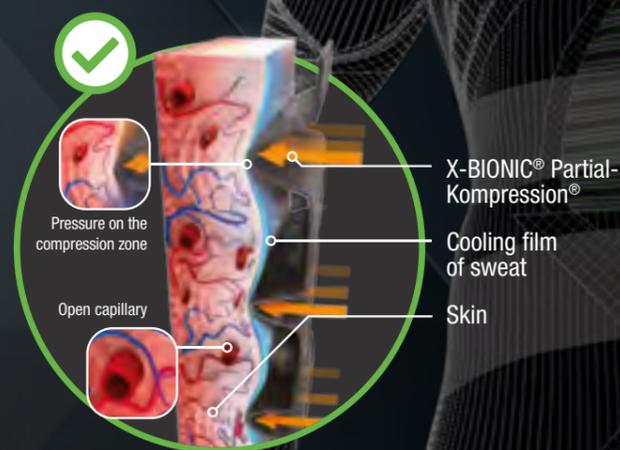
Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

THE RESULTS ARE REVOLUTIONARY:

- Reduces muscle vibration
- Improves muscle uptake of oxygen and nutrients
- Speeds recovery

+ COOLING MECHANISM

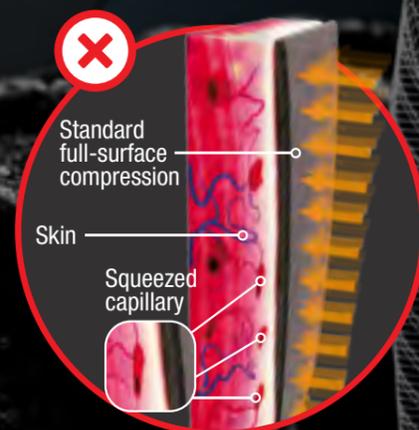
Partialkompression® uses the skin as a surface for cooling and, thus, can take advantage of the body's personal micro-climate for optimising performance.



X-BIONIC® PARTIALKOMPRESSION®

keeps the capillaries open.

→ The body cools down



Standard, full-surface compression chokes the blood vessels.

→ The body overheats

First the pressure increases, then your performance:

X-IMPACT TECHNOLOGY

As soon as your muscles quiver from fatigue, their lack of strength will hinder your performance. And athletic success will slip farther from your grasp. Decision Layer by X-BIONIC® is the intelligent technical base layer that thanks to compression can help athletes again edge closer to success because it stabilises active muscles. They don't quiver; rather they can more effectively use the energy resources that are there for the taking. Even in the more advanced stages of races you'll be able to fully rely on your muscles with X-BIONIC®. Even when you already have the championship in your grasp.

Optimal oxygen uptake and nutrient supplies for your body also are an important foundation for athletic success. If you are hungry for victory, you can't let your body starve in any stage of the race. X-Impact Technology stabilises your capillaries and veins. It takes the stress off your circulatory system and quickly supplies muscles and organs with performing-enhancing oxygen and nutrients. Your body can tap into all of its resources at the right time so you can be victorious in the tough races.



Improved oxygen and nutrient supply to the muscles



Reduction of muscle vibrations

1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 AIRCOMPLEX ZONE ON THE UPPER ABDOMEN

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

4 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

5 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

6 ISO-SHOULDER

Protects the shoulder region from wind and cold.

7 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

8 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

9 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

10 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

ENERGY ACCUMULATOR® 4.0 PATRIOT EDITION
+ 100% SWISS ENGINEERED

MEN PATRIOT SHIRT TURTLE NECK LG SL
WOMEN



SWITZERLAND	EA-WT43W19M
ITALY	EA-WT45W19M
GERMANY	EA-WT46W19M
AUSTRIA	EA-WT44W19M
NORWAY	EA-WT57W20M
POLAND	EA-WT53W19M
CHINA	EA-WT55W19M
RUSSIA	EA-WT56W19M

COMPOSITION
78% Polyamide
19% Polypropylen
3% Elastane

X-BIONIC®
ENERGY ACCUMULATOR®
PATRIOT EDITION
RADIATOR®
APANI MERINO®
INVENT®
ENERGIZER®
JACKETS
COMPLIMENTARY

WOMEN

MEN | WOMEN PATRIOT PANTS 3/4

SWITZERLAND	EA-WP43W19M
ITALY	EA-WP45W19M
GERMANY	EA-WP46W19M
AUSTRIA	EA-WP44W19M
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1 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM

The high-tech knitting is optimally positioned for more cooling power and perfect climate comfort. The varying construction of Sweat Traps® and 3D Bionic Sphere® System is able to solve the conflict of providing grip whilst transporting sweat and heat.

2 X-BIONIC® PARTIALKOMPRESSION®

A new benchmark in compression technology. X-BIONIC® Partialkompression® utilises the advantages of compression without neglecting cooling.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

3 EXPANSIONKNEE®

The accordion-like construction of the ExpansionRibs® retains its insulating properties rather than losing them when the knee is bent.

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GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

4 INTERCOOLER

This 3D construction collects perspiration on the upper thigh and maintains it directly upon the skin so that it can evaporate optimally yet directly on this important muscle group. Between periods of exertion, the Interc cooler Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

5 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO-Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

6 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads over the hipbones retain body heat that is necessary to guarantee interior organ functionality.

7 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

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8 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

9 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® dissipates heat at a controlled rate. The fine knitted structure immediately ducts moisture away.

10 AIRCONDITIONINGSPOT

Since the back of the knees start to sweat quickly and also sweat profusely, we have integrated a fine, open mesh knit there. With the help of body warmth, excess sweat is pushed outward where it can evaporate without risk of chills.

11 AKTIV-BUND®

Keeps the pants from slipping or constricting.



X-BIONIC®
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WOMEN

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11 ISO-CALFPAD

Calf muscles can cool down quickly, particularly after short pauses and even if the overall body is still heated. This can lead to the risk of injury. The knitted fabric settles itself in a wavy shape over the skin, forming channels for storing air in a manner similar to the ISO-Shoulder.

12 AKTIV-BUND®

Keeps the pants from slipping or constricting.

13 IDEO-WAISTBAND

Ergonomically shaped waistband for better fits during movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

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+ 100% SWISS ENGINEERED

MEN | WOMEN PATRIOT PANTS

NORWAY EA-WP29W20M

CHINA EA-WP58W19M

RUSSIA EA-WP28W19M

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19% Polypropylen
3% Elastane



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ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

PATRIOT SHIRT TURTLE NECK LG SL

SIZES: XS S M L XL XXL



T019 POLAND EA-WT53W19M
 T027 CHINA EA-WT55W19M
 T028 RUSSIA EA-WT56W19M
 T026 NORWAY EA-WT57W20M
 T076 AUSTRIA EA-WT44W19M
 T024 GERMANY EA-WT46W19M



T068 ITALY EA-WT45W19M
 T021 SWITZERLAND EA-WT43W19M

NOTES

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PATRIOT PANTS 3/4

SIZES: XS S M L XL XXL



T019 POLAND EA-WP53W19M
 T027 CHINA EA-WP55W19M
 T028 RUSSIA EA-WP56W19M
 T026 NORWAY EA-WP57W20M
 T076 AUSTRIA EA-WP44W19M
 T024 GERMANY EA-WP46W19M



T068 ITALY EA-WP45W19M
 T021 SWITZERLAND EA-WP43W19M

PATRIOT PANTS

SIZES: XS S M L XL XXL



T027 CHINA EA-WP58W19M
 T028 RUSSIA EA-WP28W19M
 T026 NORWAY EA-WP29W20M

NOTES

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X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

RADIATOR 4.0

+ 100% SWISS ENGINEERED

HIGHEST PERFORMANCE FOR COMPETITIVE ATHLETES IN COLD CLIMATES

Successful athletes from all over the world share the passion for perfect technique. They are winners, inspire fans, and create moments of the highest enthusiasm. The Patriot Edition of the ENERGY ACCUMULATOR® 4.0, containing our patented 3D Bionic Sphere® System with ThermoSyphon® Technology and the Ultra-high-resolution Retina®, was created for them.



WINTER SPORTS

WINTER SPORTS

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

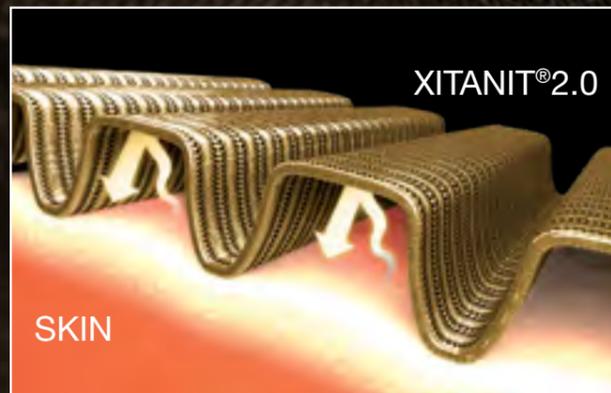
THE FABRIC THAT RECORDS ARE MADE OF

XITANIT® 2.0

Exclusive and extremely efficient: high-tech materials for the skin.

What nature forgot to give the human skin, X-BIONIC® is developing for you. Based on bionic discoveries, with scientifically demonstrated effectiveness.

XITANIT® 2.0. reflects the heat of the sun as well as body heat. In winter, XITANIT® 2.0 keeps heat against the surface of the skin. The features of XITANIT® 2.0 and its weave structures distribute sweat optimally over the entire surface of the skin. That allows the moisture to be used effectively by the 3D Bionic Sphere® System and evaporation to be controlled.



XITANIT® 2.0

The revolutionary material XITANIT® features high conductivity and is able to reflect radiated heat.

- Reflects radiated heat.
- Silver ions render garment bacteriostatic.
- Sweat management distributes perspiration around garment, maximising efficiency of evaporation process.
- Prolongs physical capacity of active athletes.

XITANIT® 2.0

220% enlarged surface compared to its predecessor

Extremely fine threads enabled us to ply 5 times as many filaments into the yarn of XITANIT® 2.0 as previously possible. This created an actual surface area that is now 220% larger.

RESULT

- The material's effectiveness has been doubled.
- It wicks sweat more quickly, and its ability to strategically reflect body warmth has been increased.
- In addition, a construction method using microfilaments increases its ability not only to store warmth but also its insulation capability.

3D BIONIC® SPHERE SYSTEM WITH ThermoSyphon® Technology

Cools you when you sweat.
Warms when you're cold.



DURING ACTIVITY

Cools when you sweat



DURING RECOVERY

Warms when you are cold

In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR



red dot award 2018 winner



37°C CCR TECHNOLOGY

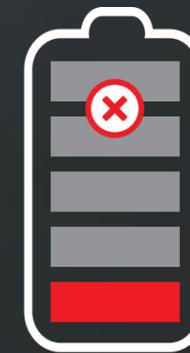
Better performance at the right temperature

"Endurance athletes use up to 97% of their energy in extreme cases just to maintain their optimal body core temperature of 37°C. That leaves only 3% for performance."

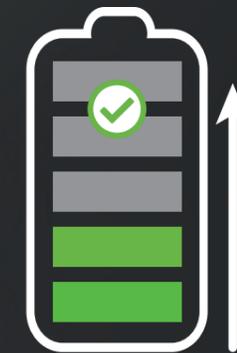
Dr. Ückert, Dortmund University.

Energy consumption needed to maintain 37°C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37°C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.



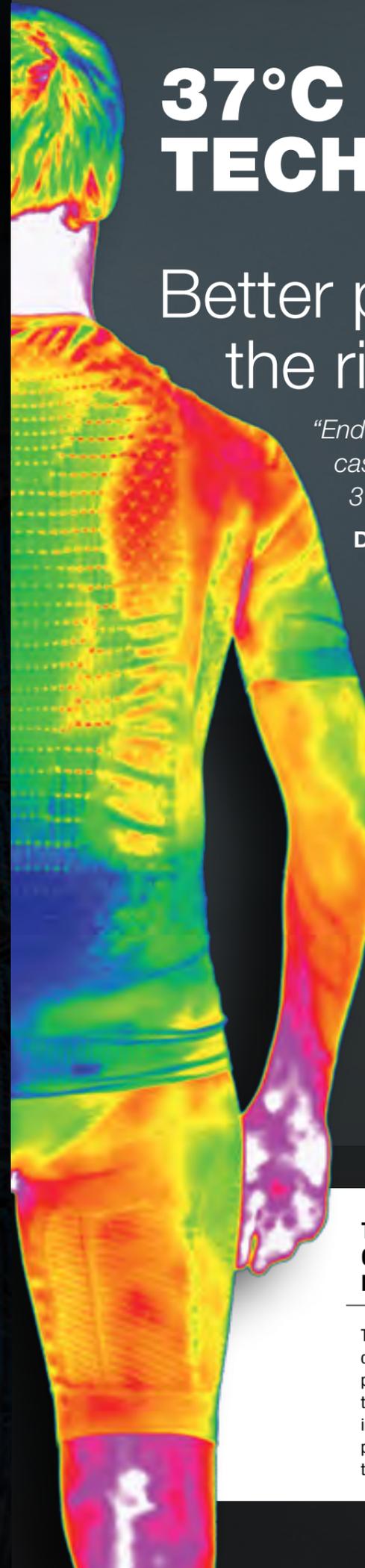
Usable power for your performance without energy-saving technology.



More usable power for your performance with energy-saving technology from X-BIONIC®.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37°C with our patented technologies.



X-BIONIC® PARTIALKOMPRESSION®

A new benchmark in compression technology. Partialkompression® by X-BIONIC® utilizes the advantages of compression without neglecting cooling.

During sport activities body warmth is created. In extreme situations up to 1,200 watts worth. Up to 90% of this is released by the athlete from the skin to maintain a body temperature of 37 °C. X-BIONIC® Partialkompression® applies targeted pressure on 1mm wide ridges. Left and right of the ridge is a compression-free area where compression could have a negative effect on blood circulation to the skin. In this way the blood flow through veins and capillaries remain unimpeded.

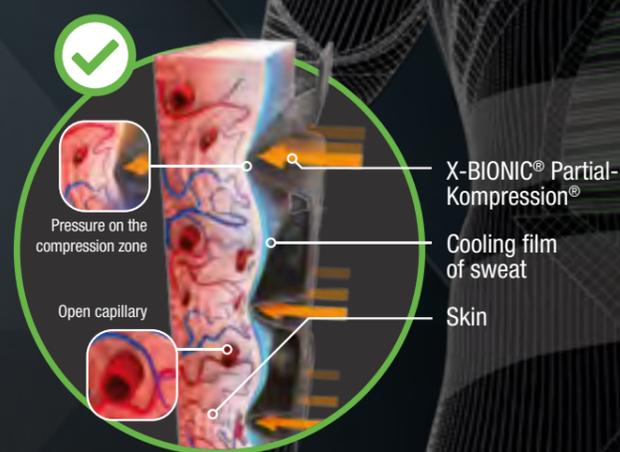
Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

THE RESULTS ARE REVOLUTIONARY:

- Reduces muscle vibration
- Improves muscle uptake of oxygen and nutrients
- Speeds recovery

+ COOLING MECHANISM

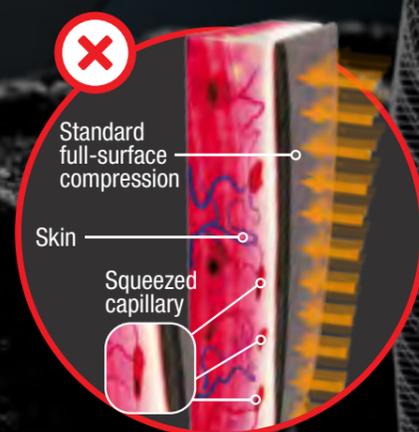
Partialkompression® uses the skin as a surface for cooling and, thus, can take advantage of the body's personal micro-climate for optimising performance.



X-BIONIC® PARTIALKOMPRESSION®

keeps the capillaries open.

→ The body cools down



Standard, full-surface compression chokes the blood vessels.

→ The body overheats

First the pressure increases, then your performance:

X-IMPACT TECHNOLOGY

As soon as your muscles quiver from fatigue, their lack of strength will hinder your performance. And athletic success will slip farther from your grasp. Decision Layer by X-BIONIC® is the intelligent technical base layer that thanks to compression can help athletes again edge closer to success because it stabilises active muscles. They don't quiver; rather they can more effectively use the energy resources that are there for the taking. Even in the more advanced stages of races you'll be able to fully rely on your muscles with X-BIONIC®. Even when you already have the championship in your grasp.

Optimal oxygen uptake and nutrient supplies for your body also are an important foundation for athletic success. If you are hungry for victory, you can't let your body starve in any stage of the race. X-Impact Technology stabilises your capillaries and veins. It takes the stress off your circulatory system and quickly supplies muscles and organs with performing-enhancing oxygen and nutrients. Your body can tap into all of its resources at the right time so you can be victorious in the tough races.



Improved oxygen and nutrient supply to the muscles



Reduction of muscle vibrations

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The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 AIRCOMPLEX ZONE ON THE UPPER ABDOMEN

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

4 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

5 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

6 ISO-SHOULDER

Protects the shoulder region from wind and cold.

7 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

8 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

9 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

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10 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



RADIATOR 4.0

+ 100% SWISS ENGINEERED

MEN SHIRT ROUND NECK LG SL

RA-WTXXW19M

COMPOSITION
63% Polyester
32% Polypropylen
5% Elastane

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

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Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM

The high-tech knitting is optimally positioned for more cooling power and perfect climate comfort. The varying construction of Sweat Traps® and 3D Bionic Sphere® System is able to solve the conflict of providing grip whilst transporting sweat and heat.

3 X-BIONIC® PARTIALKOMPRESSION®

A new benchmark in compression technology. X-BIONIC® Partialkompression® utilises the advantages of compression without neglecting cooling.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

4 EXPANSIONKNEE®

Protects from the cold, even when the knee is bent.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB,

GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

5 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

6 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

7 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

8 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

9 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

10 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

11 AIRCONDITIONINGSPOT

The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

12 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

13 IDEO-WAISTBAND

Ergonomically shaped waistband for better fits during movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

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The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



RADIATOR 4.0

+ 100% SWISS ENGINEERED

MEN PANTS 3/4

RA-WP49W19M

COMPOSITION
63% Polyester
32% Polypropylen
5% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

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- 2 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM**
 The high-tech knitting is optimally positioned for more cooling power and perfect climate comfort. The varying construction of Sweat Traps® and 3D Bionic Sphere® System is able to solve the conflict of providing grip whilst transporting sweat and heat.
- 3 X-BIONIC® PARTIALKOMPRESSION®**
 A new benchmark in compression technology. X-BIONIC® Partialkompression® utilises the advantages of compression without neglecting cooling.
Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA
- 4 EXPANSIONKNEE®**
 The accordion-like construction of the ExpansionRibs® retains its insulating properties rather than losing them when the knee is bent.
Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU
- 5 INTERCOOLER**
 This 3D construction collects perspiration on the upper thigh and maintains it directly upon the skin so that it can evaporate optimally yet directly on this important muscle group. Between periods of exertion, the Intercooler Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.
- 6 INNERLAP AIRCONDITIONING ZONE®**
 The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO-Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.
- 7 ISO-PAD**
 Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads over the hipbones retain body heat that is necessary to guarantee interior organ functionality.
- 8 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY**
 The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.
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- 9 AIR GUIDE®**
 The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.
- 10 AIR-CONDITIONING CHANNEL®**
 The Air-Conditioning Channel® dissipates heat at a controlled rate. The fine knitted structure immediately ducts moisture away.
- 11 AIRCONDITIONINGSPOT**
 Since the back of the knees start to sweat quickly and also sweat profusely, we have integrated a fine, open mesh knit there. With the help of body warmth, excess sweat is pushed outward where it can evaporate without risk of chills.
- 12 ISO-CALFPAD**
 Calf muscles can cool down quickly, particularly after short pauses and even if the overall body is still heated. This can lead to the risk of injury. The knitted fabric settles itself in a wavy shape over the skin, forming channels for storing air in a manner similar to the ISO-Shoulder.
- 13 AKTIV-BUND®**
 Keeps the pants from slipping or constricting.
- 14 IDEO-WAISTBAND**
 Ergonomically shaped waistband for better fits during movement.

RETINA®
 Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

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XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

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MEN PANTS

RA-WP05W19M

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 5% Elastane



MEN

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

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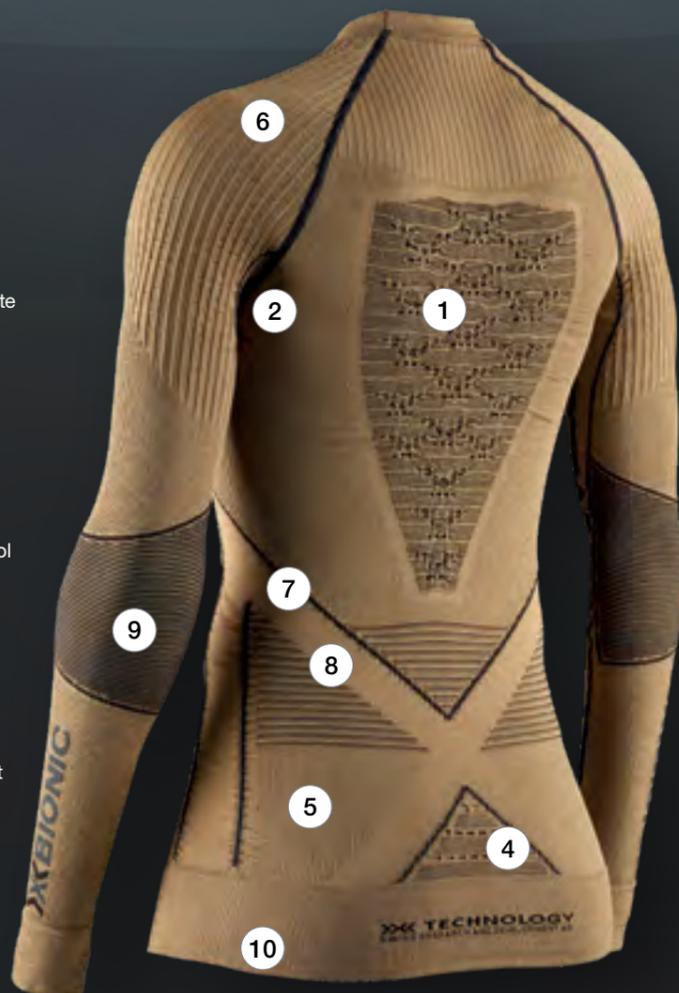
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4 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

5 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

6 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

7 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

8 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

9 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

10 AIRCONDITIONINGSPOT

The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

11 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

12 IDEO-WAISTBAND

Ergonomically shaped waistband for better fits during movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



RADIATOR 4.0

+ 100% SWISS ENGINEERED

WOMEN PANTS 3/4

RA-WP49W19W

COMPOSITION
63% Polyester
32% Polypropylen
5% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

WOMEN

1 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 X-BIONIC® PARTIALKOMPRESSION®

A new benchmark in compression technology. X-BIONIC® Partialkompression® utilises the advantages of compression without neglecting cooling.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

3 EXPANSIONKNEE®

Protects from the cold, even when the knee is bent.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

4 INTERCOOLER

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The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

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The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

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The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

11 ISO-CALFPAD

Calf muscles can cool down quickly, particularly after short pauses and even if the overall body is still heated. This can lead to the risk of injury. The knitted fabric settles itself in a wavy shape over the skin, forming channels for storing air in a manner similar to the ISO-Shoulder.

12 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

13 IDEO-WAISTBAND

Ergonomically shaped waistband for better fits during movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

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37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



RADIATOR 4.0

+ 100% SWISS ENGINEERED

WOMEN PANTS

RA-WP05W19W

COMPOSITION
63% Polyester
32% Polypropylen
5% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

WOMEN

X-BIONIC RADIATOR® 4.0
DECISION LAYER | MEN

SHIRT ROUND NECK LG SL
RA-WTXXW19M

SIZES: XS S M L XL XXL



S001
GOLD/BLACK

PANTS 3/4
RA-WP49W19M

SIZES: XS S M L XL XXL



S001
GOLD/BLACK

NOTES

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X-BIONIC RADIATOR® 4.0
DECISION LAYER | WOMEN

RADIATOR 4.0
+ 100% SWISS ENGINEERED

SHIRT ROUND NECK LG SL
RA-WTXXW19W

SIZES: XS S M L XL XXL



S001
GOLD/BLACK

PANTS 3/4
RA-WP49W19W

SIZES: XS S M L XL XXL



S001
GOLD/BLACK

NOTES

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X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

APANI[®]
MERINO

BY
X-BIONIC[®]

HIGH TECH FUNCTIONALITY AND WARMTH WITH SUPREME COMFORT

Wool warms by nature but isn't smart. Through implementing numerous, sophisticated technologies like their 3D Bionic Sphere[®] System with ThermoSyphon[®] Technology, X-Technology[®] Swiss have created smart wool. APANI[®] MERINO – 'as pure as nature intended[®]' – naturally cools, warms and dries where required and not just where it can. APANI[®] is an ecological product, which guarantees the highest degree of form stability and comfort.

WINTER SPORTS

X-BIONIC[®]
ENERGY ACCUMULATOR[®]
PATRIOT EDITION
RADIATOR[®]
APANI MERINO[®]
INVENT[®]
ENERGIZER[®]
JACKETS
COMPLIMENTARY



AS PURE AS NATURE INTENDED®

In a world dominated by mass production, APANI® MERINO stands for the exact opposite. The last bastion of products that are 100 % natural. Behind every stitch is the knowledge and expertise of generations of passionate specialists. APANI® MERINO products are designed for quality and long-term sustainability. One of the secrets of our manufacturing process is our detailed understanding of the properties of the materials we use and their best possible application. The materials are part of the design process from the first moment on, whether its merino wool, leather, bamboo or hemp fibre. APANI® MERINO is defined by the natural products used. Whereas fashionable trends quickly date, APANI® MERINO collects experience.

Whether out of an interest in APANI® MERINO or a belief in nature, you are more than welcome to come and visit our manufacturing premises in Italy. Our team will be only too happy to help you organise the details of your journey. In Asola, you will be given a personal tour of our innovative manufacturing facilities by an experienced employee and have the opportunity to meet our textile designers. Naturally all this would be unthinkable without certain opportunities to experience Italian flair. With a bit of luck you might even meet Professor Bodo W. Lambertz and experience for yourself where the passion for APANI® MERINO products comes from. Come and experience APANI® MERINO up close. See the power that lies behind it. So you can understand what drives us.

INTELLIGENCE ATTRACTS.

Evolution is an excellent engineer. Over millions of years, it has perfected nature to the last detail, creating outstanding solutions. The science of bionics researches these master works – and innovative thinkers like APANI® MERINO BY X-BIONIC® makes them useful to humans. Discover how attractive wool can be when inspired X-BIONIC® developers lend it outstanding intelligence with their pioneering technology.

1 | INTELLIGENCE, NATURALLY WORKED.

18.5 Micrometre fine, mercerised, 100% pure Saxon merino wool.

2 | INTELLIGENT CLIMATE.

3D Bionic Sphere® System for intelligent sweat management.

3 | INTELLIGENCE, PATENTED.

Revolutionary X-BIONIC® technologies.

4 | INTELLIGENCE WITH QUALITY.

Developed and manufactured only in Europe, not in the Far East.

5 | INTELLIGENCE WITH ECOLOGY.

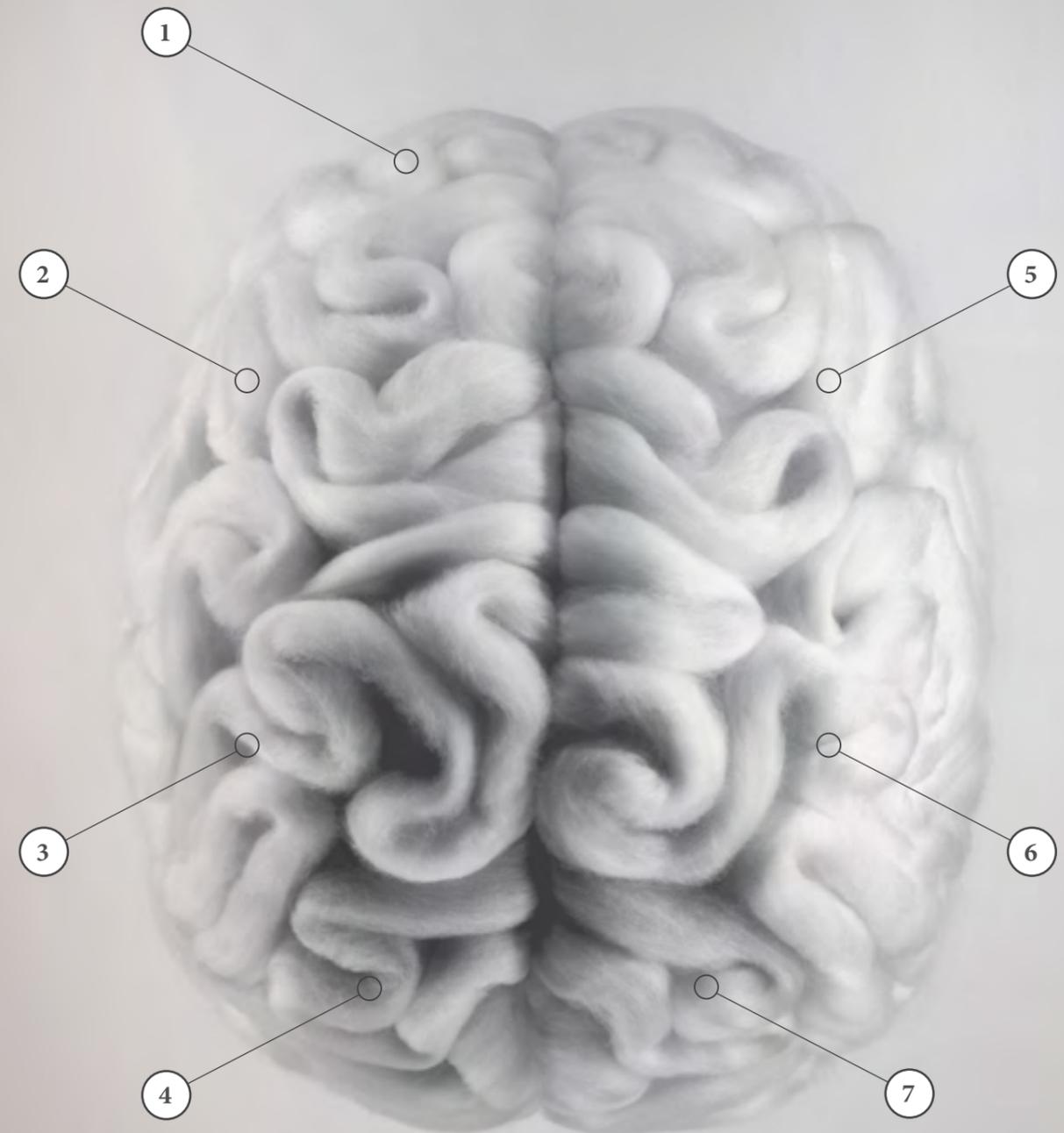
Strictly monitored, species-appropriate husbandry without mulesing.

6 | INTELLIGENCE WITH FUNCTION.

Top-notch wearing comfort for every climate. Cools and warms without odour.

7 | INTELLIGENCE, CONTEMPORARY.

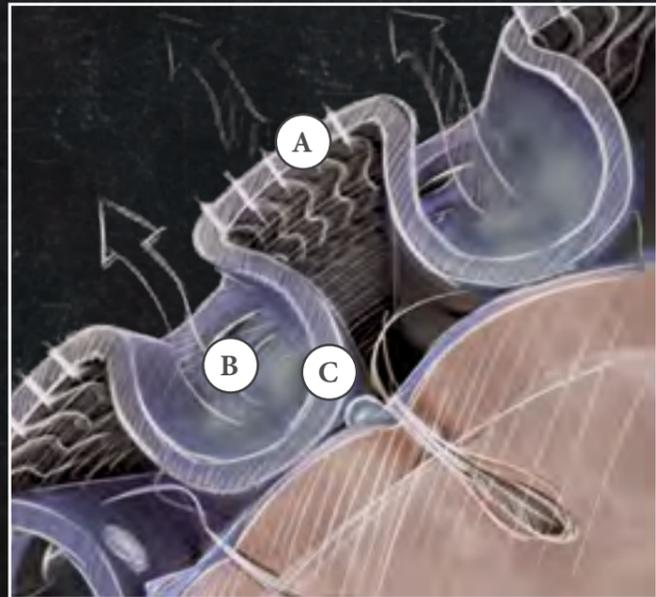
Natural with its own style.



OUR 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY GAVE WOOL INTELLIGENCE.

APANI® MERINO cools when you sweat, and warms when you freeze. That's functional clothing made by X-BIONIC®. The Swiss think tank led by Professor Dr. Bodo W. Lambertz relies on innovation. With great success too. The 3D Bionic Sphere® System with ThermoSyphon® Technology is a technology unique around the world that specifically wicks away sweat and very practically optimises its cooling effect. Only the knitting machines we've developed in-house can fabricate this complex, three-dimensional structure. Only they can implement high textile technology. Our prize-winning textile designer, physiologists and scientists work to ensure it. Experience, knowledge and engagement team up to build progress in Switzerland.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR



COOLS, WHEN YOU SWEAT.

A | EVAPORATION SURFACE EXPANDER®
Evaporation of excess moisture across a large surface.

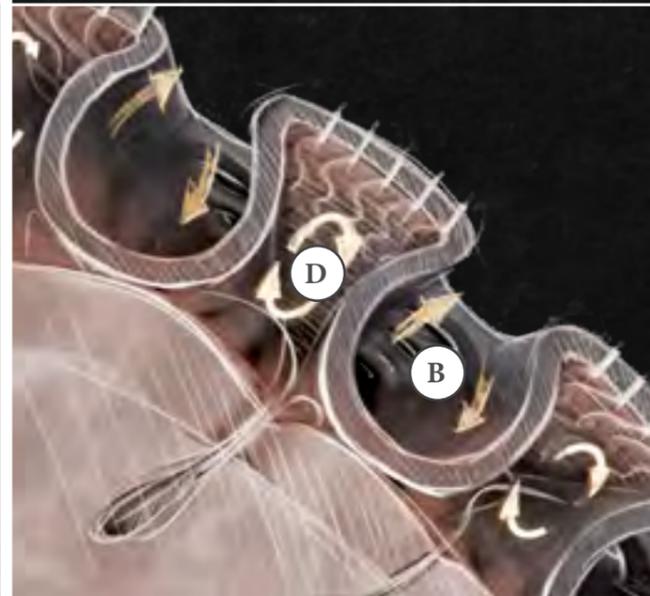
B | OUTER AIR CHANNEL
Moisture is forced out as fresh air flows in.

C | SWEAT TRAPS®
Wick away excess moisture.

B | OUTER AIR CHANNEL
When sweating stops, the cooling process is interrupted.

D | INNER AIR CHANNEL
Warm air is stored inside and insulates.

WARMS, WHEN YOU'RE COLD.



WOOL ALONE IS NOT SMART.

Wool is not functional on its own. It has important properties, but was not made to cope with sweat. Sheep don't sweat. People do.



We regulate our body temperatures by evaporating sweat. If a sheep was to sweat...



...the wool would quickly become heavy and wet in next to no time. Once wool fibres have absorbed moisture they keep it.



As sheep can't dry themselves, they would freeze quickly if exposed to sub-zero temperatures.

High-quality materials are pleasant to wear. Modern designs are often eye-catching. But its functionality that remains the decisive factor. Wool provides warmth. It's the best possible protection for sheep – but not necessarily for people. Wool cannot cope with sweat. It soaks up sweat and becomes heavy and unpleasant to wear. Sheep don't sweat. People do. APANI® MERINO makes wool intelligent, by integrating extra functionality. Patented machines are used to knit a three-dimensional fabric from Merino wool. Sweat gets processed. APANI® MERINO by X-BIONIC® makes clothing that is fully functional.



REGULAR SHEEP

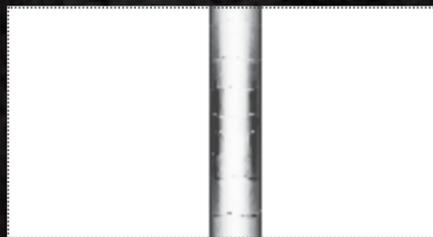


APANI® MERINO SHEEP

WE START WHERE OTHERS LEAVE OFF.

Nature has given Saxon Merinos a coat that protects them from the wind and the rain. Its fine wool structure forms a protective layer. This is how they manage to survive the cold winters and hot summers up on the high plains. APANI® MERINO only uses wool from highland merinos. There is only a small number of farms that breed these sheep. And not all of their wool has the required degree of fineness. One could argue that it's too complicated to be viable.

At APANI® MERINO it makes perfect sense. The search for perfection knows no compromises.



14.5 Micron | CASHMERE

Cashmere comes from Cashmere goats. The wool has fine and very soft fibres, which are combed out of the winter coat during the spring moulting season. It is the finest wool known and has a thickness of 14.5 microns.



18.5 Micron | APANI® MERINO

APANI® MERINO wool appeals to all the senses. Its white, shiny fibres are soft to the touch. It also has a pleasant smell. A merino sheep can only produce a maximum of five kilos of wool a year. They are bred by only a limited number of farms.



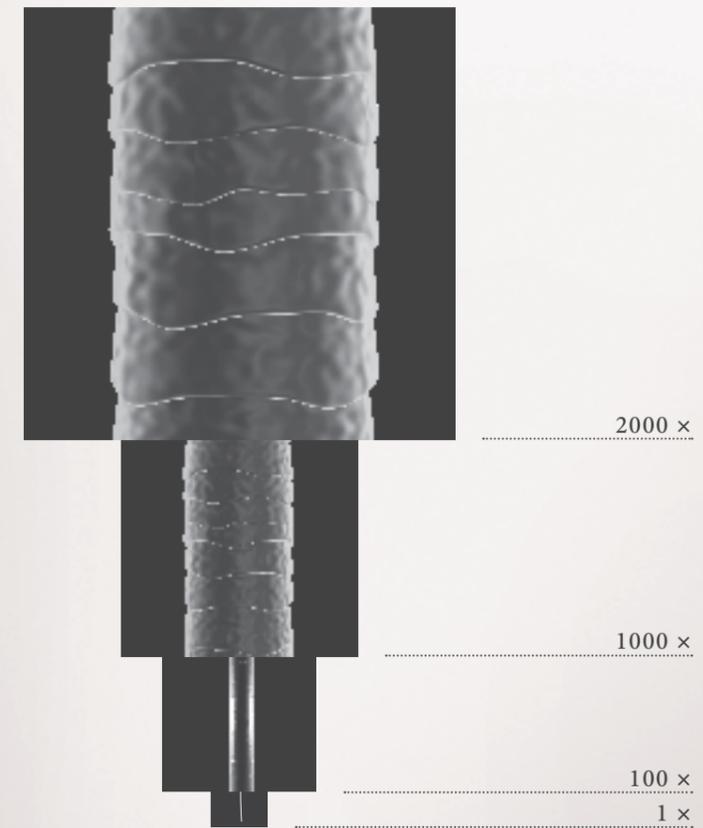
25.0 Micron | CONVENTIONAL WOOL FIBRES

Conventional wool is warm, but it's also thick, heavy and uncomfortable to wear. Anyone who's worn underwear made of conventional wool will know that it's an experience you don't want to repeat in a hurry.

EVERY FIBRE A PART OF THE LEADERSHIP.

Saxon Merinos are small, tough and intelligent creatures. They live in the rainy regions of South Australia, in Victoria, on the Tablelands of New South Wales and in the mountains of Tasmania. Their spiral horns underline the strong nature of their character. Merino wool has a diameter of 18.5 microns, half the thickness of a human hair. A merino sheep only produces up to five kilograms of wool a year. Its pale white colour and natural shininess make it an exceptional raw material. APANI® farms have a long tradition.

Knowledge and expertise on breeding has been passed down through the generations. Strict controls ensure the wellbeing of the animals and the sustainable production of materials. The wool is then carefully refined and checked. The end result is the highest quality merino. This is what we use to make APANI® MERINO.



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 AIRCOMPLEX ZONE ON THE UPPER ABDOMEN

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

4 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

5 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

6 AIR-CONDITIONING CHANNEL®

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7 SWEAT TRAPS® ON THE BACK

The Sweat Traps® on the lower back are targeted specifically at catching sweat flowing toward the tailbone and the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

8 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

9 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

APANI® MERINO WOOL

Apani® Merino makes wool intelligent, by integrating extra functionality. Patented machines are used to knit a 3D fabric from Merino wool, so sweat gets processed better than in usual woollen garments.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

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XX-CROSS® TECHNOLOGY

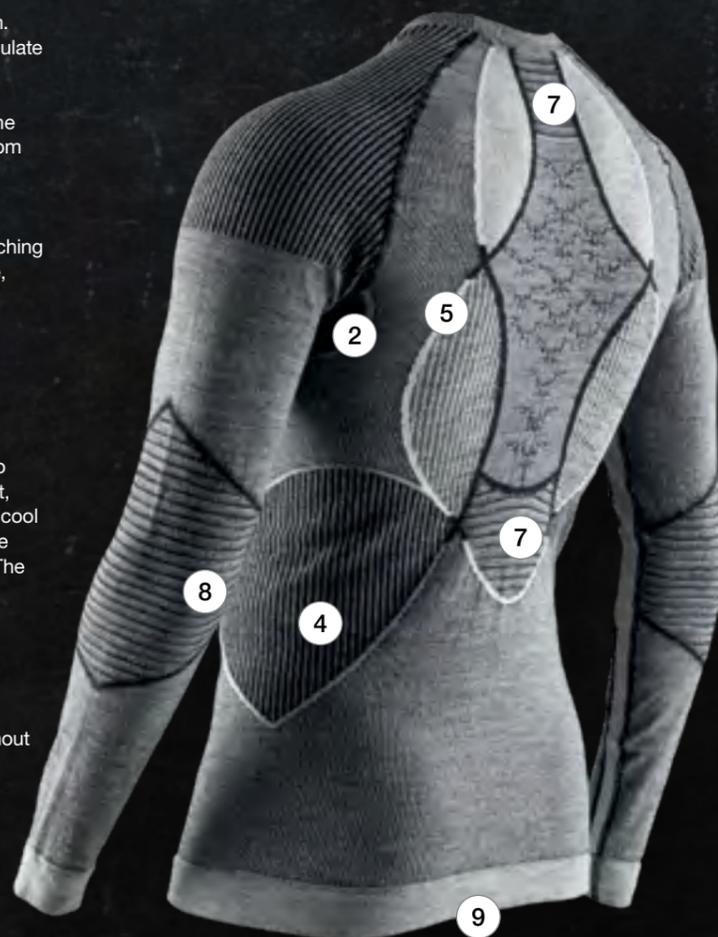
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37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



MERINO SHIRT ROUND NECK LG SL

MEN

AP-WT06W19M

COMPOSITION
87% Merino Wool
12% Polypropylen
1% Elastane

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

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3 DIFFUSER

Moist warm air rises up the back to your collar. The vertical channels in the diffuser construction on the high inside of the collar keep it off the neck and thus form the chimney pot of a flue through which the steamy sweat can get outside.

4 SHOULDERPADS

Each individual honeycomb stores warm air for the insulation without restricting the freedom of movement.

5 IDEO-WAISTBAND

Ergonomically shaped waistband for better fits during movement.

6 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

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MERINO TRANSMISSION LAYER ZIP UP

MEN

AP-YR20W20M

COMPOSITION
TBD



X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

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2 EXPANSIONKNEE®

Protects from the cold, even when the knee is bent.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

3 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

4 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

5 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

6 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

7 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

8 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

9 AIRCONDITIONINGSPOT

The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

10 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

11 IDEO-WAISTBAND

Ergonomically shaped waistband for better fits during movement.

APANI® MERINO WOOL

Apani® Merino makes wool intelligent, by integrating extra functionality. Patented machines are used to knit a 3D fabric from Merino wool, so sweat gets processed better than in usual woollen garments.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

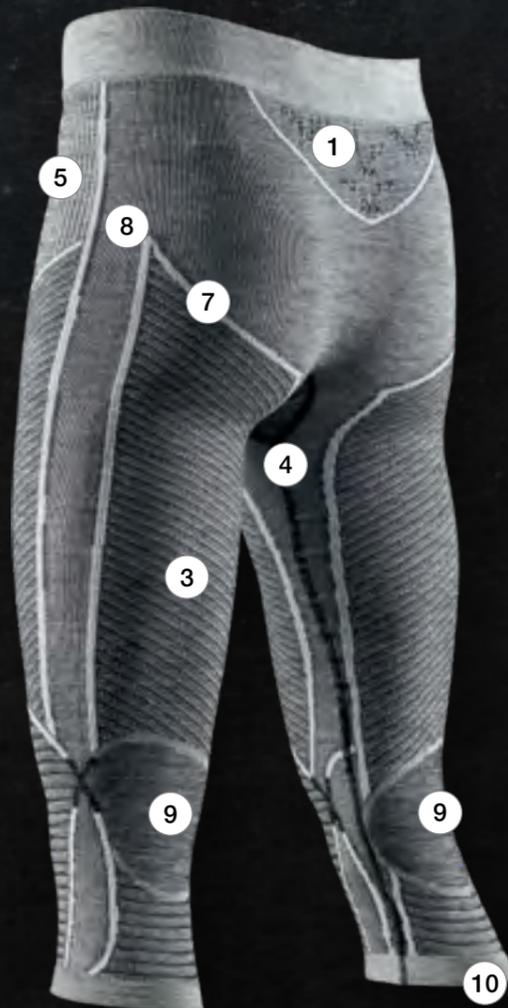
H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



MEN MERINO PANTS 3/4

AP-WP07W19M

COMPOSITION
87% Merino Wool
12% Polypropylen
1% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 EXPANSIONKNEE®

Protects from the cold, even when the knee is bent.

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3 INTERCOOLER

This 3D construction collects sweat on the upper thigh and maintains it directly on the skin surface; this allows the sweat to evaporate optimally from this important muscle group. Between periods of exertion, the Intercooler's Rib technology lies in a wavelike structure on the muscle to provide insulation. The locked-in air protects these vulnerable muscles from over-cooling.

4 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

5 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

6 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

7 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

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The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

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11 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

12 IDEO-WAISTBAND

Ergonomically shaped waistband for better fits during movement.

APANI® MERINO WOOL

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RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

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37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



MEN MERINO PANTS

AP-WP05W19M

COMPOSITION
87% Merino Wool
12% Polypropylen
1% Elastane

X-BIONIC®
ENERGY ACCUMULATOR®
PATRIOT EDITION
RADIATOR®
APANI MERINO®
INVENT®
ENERGIZER®
JACKETS
COMPLIMENTARY

1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

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Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 AIRCOMPLEX ZONE ON THE UPPER ABDOMEN

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

4 ISO-PAD

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8 SWEAT TRAPS® ON THE BACK

The Sweat Traps® on the lower back are targeted specifically at catching sweat flowing toward the tailbone and the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

9 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

10 AKTIV-BUND

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XX-CROSS® TECHNOLOGY

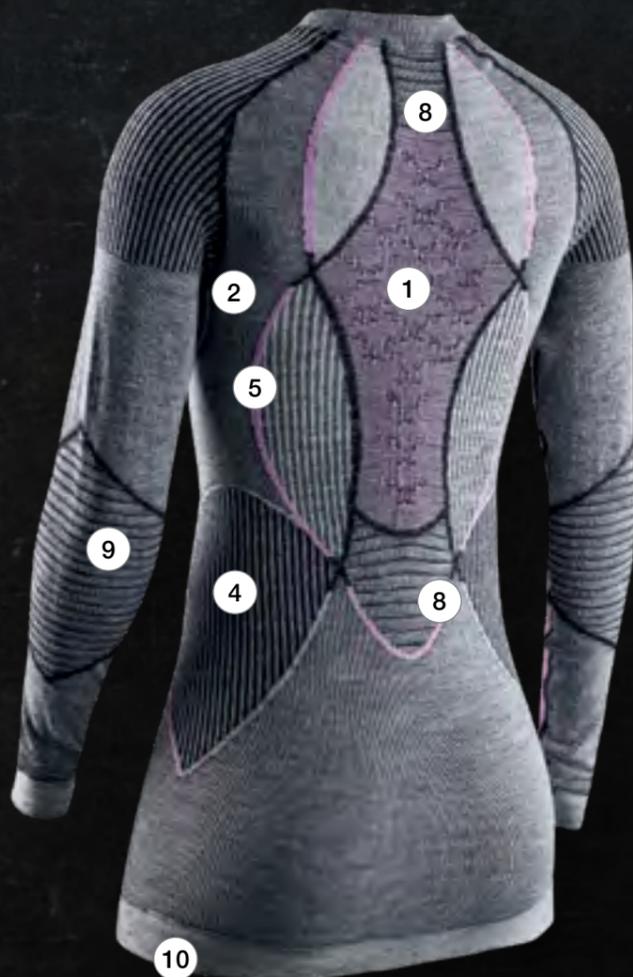
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MERINO SHIRT ROUND NECK LG SL

WOMEN

AP-WT06W19W

COMPOSITION
87% Merino Wool
12% Polypropylen
1% Elastane



X-BIONIC®
ENERGY ACCUMULATOR®
PATRIOT EDITION
RADIATOR®
APANI MERINO®
INVENT®
ENERGIZER®
JACKETS
COMPLIMENTARY

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Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 DIFFUSER

Moist warm air rises up the back to your collar. The vertical channels in the diffuser construction on the high inside of the collar keep it off the neck and thus form the chimney pot of a flue through which the steamy sweat can get outside.

4 SHOULDERPADS

Each individual honeycomb stores warm air for the insulation without restricting the freedom of movement.

5 IDEO-WAISTBAND

Ergonomically shaped waistband for better fits during movement.

6 EXPANSION RIBS®

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Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

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XX-CROSS® TECHNOLOGY

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MERINO TRANSMISSION LAYER ZIP UP

WOMEN

AP-YR20W20W

COMPOSITION
TBD



X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

WOMEN MERINO PANTS

AP-WP05W19W

COMPOSITION
 87% Merino Wool
 12% Polypropylen
 1% Elastane



APANI[®] MERINO WOOL

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The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone[®] is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

5 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

6 3D BIONIC SPHERE[®] SYSTEM WITH THERMOSYPHON[®] TECHNOLOGY

The new 3D Bionic Sphere[®] System with ThermoSyphon[®] Technology features complex 3D structures of inner and outer air channels. It cools when you sweat and warms when you are cold. Sweat is absorbed by tightly placed channels and transported to regions with high evaporation rates. This maximises cooling and increases your performance.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

7 AIR GUIDE[®]

The Air-Conditioning Channels[®] are framed in Air Guide[®] so that they can also work effectively under a second layer. The evaporation rate is increased.

8 AIR-CONDITIONING CHANNEL[®]

The Air-Conditioning Channel[®] is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels[®] also effectively draws moisture away from the sweat zones.

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11 AKTIV-BUND[®]

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12 IDEO-WAISTBAND

Ergonomically shaped waistband for better fits during movement.

DECISION-TRANSMISSION LAYER | MEN

MERINO SHIRT ROUND NECK LG SL

AP-WT06W19M

SIZES: XS S M L XL XXL



B026
BLACK/BLACK



B080
BLACK/
GREY/ORANGE



B408
BLACK/GREY/
WHITE



B026
BLACK/BLACK

MERINO TRANSMISSION LAYER ZIP UP

AP-YR20W20M

SIZES: XS S M L XL XXL

DECISION-TRANSMISSION LAYER | WOMEN

MERINO SHIRT ROUND NECK LG SL

AP-WT06W19W

SIZES: XS S M L XL XXL



W159
OFF WHITE/
BRIGHT LAVENDER



B026
BLACK/BLACK



B284
BLACK/GREY/
TURQUOISE



B343
BLACK/GREY/
MAGNOLIA



G347
LIGHT GREY
MELANGE

MERINO TRANSMISSION LAYER ZIP UP

AP-YR20W20W

SIZES: XS S M L XL XXL

MERINO PANTS 3/4

AP-WP07W19M

SIZES: XS S M L XL XXL



B026
BLACK/BLACK



B026
BLACK/BLACK

MERINO PANTS

AP-WP05W19M

SIZES: XS S M L XL XXL



B026
BLACK/BLACK



B080
BLACK/
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B408
BLACK/GREY/
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AP-WP05W19W

SIZES: XS S M L XL XXL



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OFF WHITE/
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B026
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NOTES

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NOTES

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X-BIONIC®
ENERGY ACCUMULATOR®
PATRIOT EDITION
RADIATOR®
APANI MERINO®
INVENT®
ENERGIZER®
JACKETS
COMPLIMENTARY

INVENT[®] 4.0

+ 100% SWISS ENGINEERED

IMPROVE YOUR PERFORMANCE AND COMFORT IN LEISURE SPORTS

X-BIONIC[®] INVENT precisely supports your body temperature regulation. The tree dimensional knit structure can hold an insulating layer of air on the body, which helps create an optimally balanced personal climate, even in the harshest of winter conditions. In the activity phase excess warmth can be dissipated quickly via the Air-Conditioning Channel[®] and the AirConditioningSpot.



DECISION LAYERS

100% RESEARCH, DEVELOPMENT, DESIGN + COMMUNICATION DONE IN SWITZERLAND

X-BIONIC[®]

ENERGY ACCUMULATOR[®]

PATRIOT EDITION

RADIATOR[®]

APANI MERINO[®]

INVENT[®]

ENERGIZER[®]

JACKETS

COMPLIMENTARY

INVENT[®]

1 PROPRIO-PADDING OUTSIDE

Proprioceptors are sensory receptors found in joints and muscles. They control your position and the movement of your body in space. Neuromuscular reaction time of the stabilising musculature is improved with the lightest touch of the ribbed structures on these spots. This actively ensures the balance and stability of your entire body.

2 MACROSPHERE SYSTEM

The Macrosphere System stops unpleasant moisture, the feeling of overheating or the risk of cooling during rest and recovery phases. As soon as your body heats up and sweats, the cooling function starts. Without sweat, the insulating effect begins.

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

5 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

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The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

7 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

8 AKTIV-BUND®

Keeps the shirt from slipping up or constricting.

9 VENUS XT RIB

Vertical ventilation channel for an increased air exchange and thus sweat management.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

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INVENT® 4.0

+ 100% SWISS ENGINEERED

MEN LT SINGLET

IN-YT01S19M

COMPOSITION
92% Polyamide
5% Elastane
3% Polypropylen



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

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IN-WT06W19M

COMPOSITION
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MEN

1 PROPRIO-PADDING OUTSIDE

Proprioceptors are sensory receptors found in joints and muscles. They control your position and the movement of your body in space. Neuromuscular reaction time of the stabilising musculature is improved with the lightest touch of the ribbed structures on these spots. This actively ensures the balance and stability of your entire body.

2 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 ISO-PAD

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads retain body heat that is necessary to guarantee interior organ functionality.

5 WALLABY STRUCTURE

The complex structure around the wrist guarantees effective cooling of the venous blood and therefore supports the thermoregulation.

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Precise ducts on the cuff create a highly comfortable band on the sleeve and let the moist and hot air scape.

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The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

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8 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

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The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

10 AIR GUIDE®

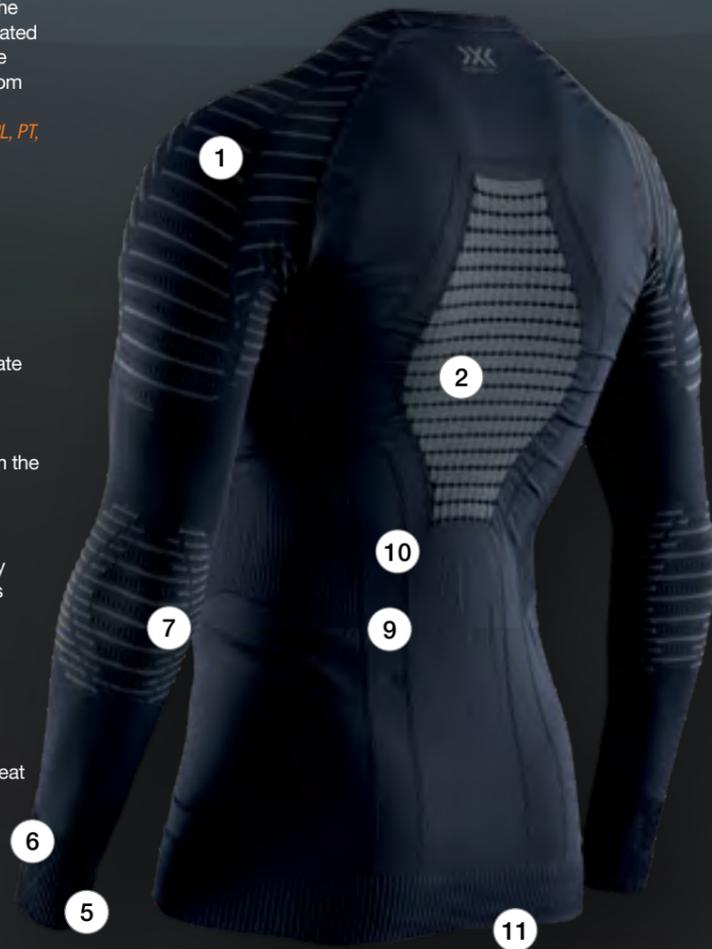
The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

11 AKTIV-BUND®

Keeps the shirt from slipping up or constricting.

12 VENUS XT RIB

Vertical ventilation channel for an increased air exchange and thus sweat management.



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

INVENT® 4.0

+ 100% SWISS ENGINEERED

MEN LT SHIRT ROUND NECK LG SL

IN-WT06W19M

COMPOSITION
94% Polyamide
3% Polypropylen
3% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

1 MACROSPHERE SYSTEM

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MEN BOXER SHORTS

IN-Y000S19M

COMPOSITION
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5% Elastane
3% Polypropylen

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PATRIOT EDITION

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MEN PANTS

IN-YP05W19M

COMPOSITION
94% Polyamide
3% Polypropylen
3% Elastane



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ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

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INVENT®

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COMPLIMENTARY

MEN

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WOMEN LT SINGLET

IN-YT01S19W

COMPOSITION
92% Polyamide
5% Elastane
3% Polypropylen



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

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COMPLIMENTARY

WOMEN

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PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

WOMEN LT SHIRT ROUND NECK SH SL

IN-YT00S19W

COMPOSITION
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3% Polypropylen



WOMEN

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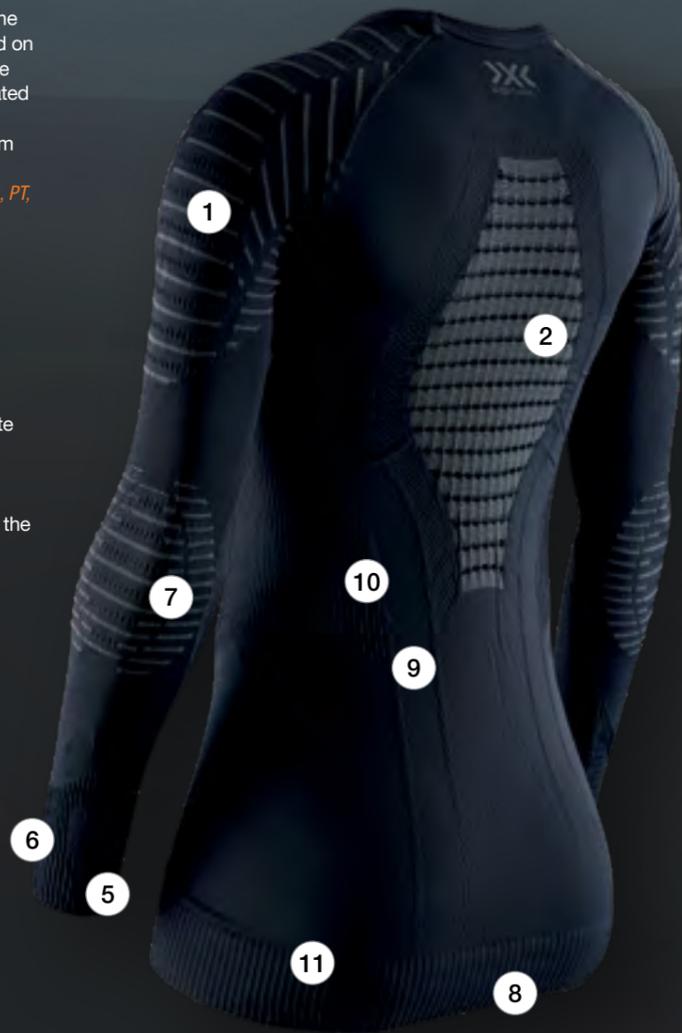
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WOMEN LT SHIRT ROUND NECK LG SL

IN-YT06W19W

COMPOSITION
94% Polyamide
3% Polypropylen
3% Elastane



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ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

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IN-Y000S19W

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5% Elastane
3% Polypropylen



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WOMEN

X-BIONIC INVENT® 4.0
DECISION LAYER | MEN

X-BIONIC INVENT® 4.0
DECISION LAYER | WOMEN

INVENT® 4.0
+ 100% SWISS ENGINEERED

LT SHIRT ROUND NECK LG SL
IN-WT06W19M

SIZES: XS S M L XL XXL



B036
BLACK/
CHARCOAL
- NOS -

W030
WHITE/
BLACK
- NOS -

LT SHIRT ROUND NECK SH SL
IN-YT00S19M



B002
OPAL BLACK/
ARCTIC WHITE
- NOS -

W008
ARCTIC WHITE/
DOLOMITE GREY
- NOS -

LT SHIRT ROUND NECK LG SL
IN-YT06W19W

SIZES: XS S M L XL XXL



B036
BLACK/
CHARCOAL
- NOS -

W030
WHITE/
BLACK
- NOS -

LT SHIRT ROUND NECK SH SL
IN-YT00S19W

SIZES: XS S M L XL XXL



B002
OPAL BLACK/
ARCTIC WHITE
- NOS -

W008
ARCTIC WHITE/
DOLOMITE GREY
- NOS -

LT SINGLET
IN-YT01S19M

SIZES: XS S M L XL XXL



B002
OPAL BLACK/
ARCTIC WHITE
- NOS -

W003
OPAL BLACK/
ARCTIC WHITE
- NOS -

LT SINGLET
IN-YT01S19W

SIZES: XS S M L XL XXL



B002
OPAL BLACK/
ARCTIC WHITE
- NOS -

W008
ARCTIC WHITE/
DOLOMITE GREY
- NOS -

BOXER SHORTS
IN-Y000S19M

SIZES: XS S M L XL XXL



B002
OPAL BLACK/
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W003
ARCTIC WHITE/
OPAL BLACK
- NOS -

PANTS
IN-YP05W19M

SIZES: XS S M L XL XXL



B036
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B036
BLACK/
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- NOS -

NOTES

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PATRIOT EDITION
RADIATOR®
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INVENT®
ENERGIZER®
JACKETS
COMPLIMENTARY

SHIRT LG SL
IN-YT06W19J

SIZES: 6/7 8/9 10/11 12/13



A010
TEAL BLUE/
ANTHRACITE

0021
SUNSET ORANGE/
ANTHRACITE

E173
GREEN LIME/
BLACK

PANTS
IN-YP05W19J

SIZES: 6/7 8/9 10/11 12/13



A010
TEAL BLUE/
ANTHRACITE

0021
GREEN LIME/
BLACK

E173
ARCTIC WHITE/
DOLOMITE GREY

NOTES

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NOTES

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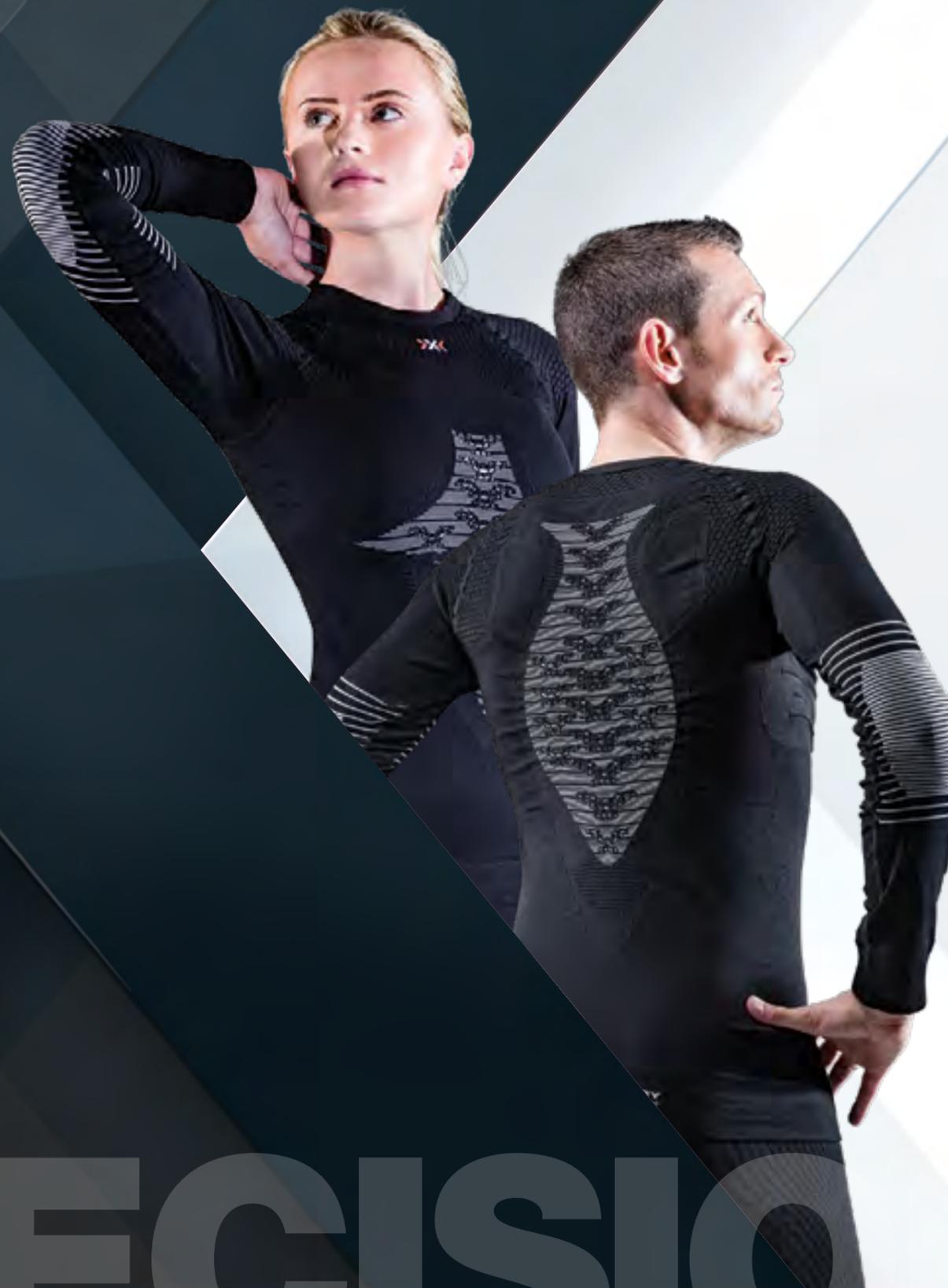
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MAXIMIZE YOUR TRAINING PERFORMANCE THROUGH SMART TEMPERATURE REGULATION

In order to keep you performing under all conditions, X-BIONIC® engineers have made the tried-and-tested even better and adapted the ENERGIZER® line based on the latest scientific studies. The ENERGIZER® 4.0. is a technically outstanding product, that optimally supports thermoregulation, acting as a stabilizer allowing the body to focus on performance and thus increasing it.



DECISION LAYERS

X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

3D BIONIC® SPHERE SYSTEM WITH ThermoSyphon® Technology

Cools you when you sweat.
Warms when you're cold.



DURING ACTIVITY

Cools when you sweat



DURING RECOVERY

Warms when you are cold

In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR



red dot award 2018 winner



37°C CCR TECHNOLOGY

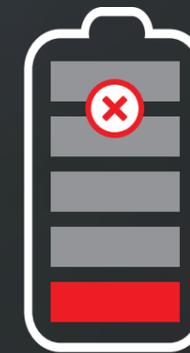
Better performance at the right temperature

"Endurance athletes use up to 97% of their energy in extreme cases just to maintain their optimal body core temperature of 37°C. That leaves only 3% for performance."

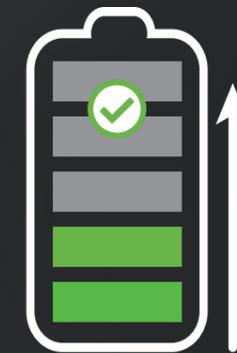
Dr. Ückert, Dortmund University.

Energy consumption needed to maintain 37°C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37°C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.



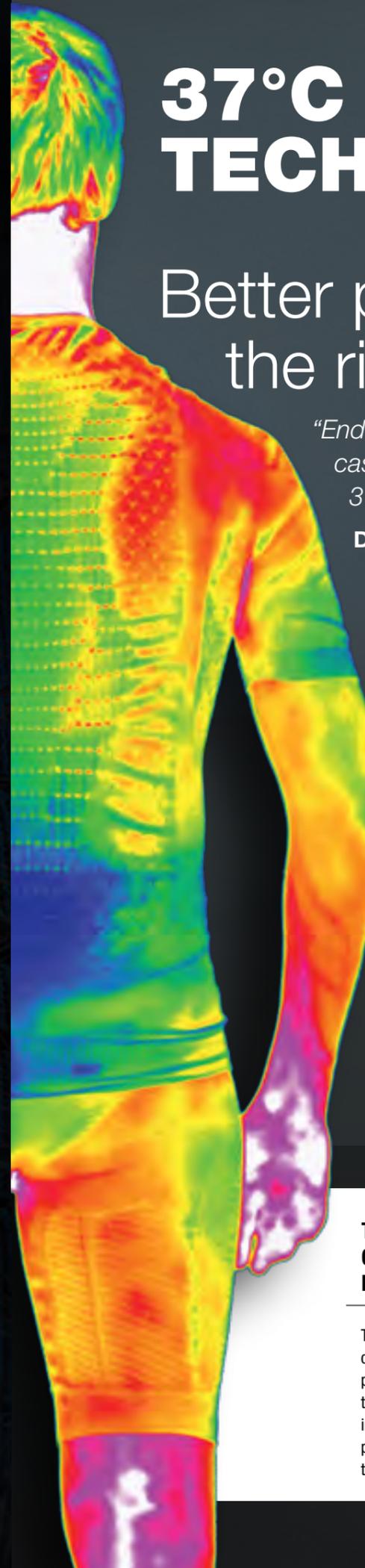
Usable power for your performance without energy-saving technology.



More usable power for your performance with energy-saving technology from X-BIONIC®.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37°C with our patented technologies.



1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 ISO-SHOULDER

Protects the shoulder region from wind and cold.

4 SHOULDERPADS

Each individual honeycomb stores warm air for the insulation without restricting the freedom of movement.

5 AIRCOMPLEX ZONE

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

6 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

7 SWEAT TRAPS® AT THE TAILBONE

The Sweat Traps® at the tailbone are targeted specifically at catching sweat flowing toward the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

8 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

9 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

10 AKTIV-BUND

Keeps the shirt from slipping up or constricting.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

MEN LT ROUND NECK SH SL

NG-YT00S19M

COMPOSITION
90% Polyamide
3% Polypropylen
7% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

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Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 40 CM² ABSORPTION AREA FOR SWEAT

Since a lot of sweat is produced in the chest area, the 3D Bionic Sphere® System with ThermoSyphon® Technology has been specifically equipped with Sweat Traps® to accelerate the absorption of moisture.

3 SWEAT TRAPS®

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The Sweat Traps® on the lower back are targeted specifically at catching sweat flowing toward the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

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10 AIR GUIDE®

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11 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

12 AKTIV-BUND

Keeps the shirt from slipping up or constricting.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

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CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.



MEN SHIRT ROUND NECK LG SL

ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

NG-YT06W19M

COMPOSITION
90% Polyamide
5% Polypropylen
5% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

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Protects the shoulder region from wind and cold.

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9 AKTIV-BUND

Keeps the shirt from slipping up or constricting.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

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The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

MEN LT SINGLET

NG-YT02S19M

COMPOSITION
90% Polyamide
3% Polypropylen
7% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

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Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 ISO-SHOULDER

Protects the shoulder region from wind and cold.

4 SHOULDERPADS

Each individual honeycomb stores warm air for the insulation without restricting the freedom of movement.

5 AIRCOMPLEX ZONE

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

6 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

7 SWEAT TRAPS® ON THE BACK

The Sweat Traps® on the lower back are targeted specifically at catching sweat flowing toward the tailbone and the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

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9 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

10 AKTIV-BUND

Keeps the shirt from slipping up or constricting.



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

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XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

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37 °C CCR-TECHNOLOGY

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The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.

ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

MEN LT V-NECK SH SL

NG-YT01S19M

COMPOSITION
90% Polyamide
3% Polypropylen
7% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

1 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHION® TECHNOLOGY

The high-tech knitting is optimally positioned for more cooling power and perfect climate comfort. The varying construction of Sweat Traps® and 3D Bionic Sphere® System is able to solve the conflict of providing grip whilst transporting sweat and heat.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Function.

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 INSULATION ZONE

The 3D structure stores warm air and guarantees optimum insulation.

5 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

6 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHION® TECHNOLOGY

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The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

9 ISO RIBS

Enables targeted insulation of individual body parts to protect the body from freezing.

10 AKTIV-BUND

Keeps the pants from slipping up or constricting.



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

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H-DRY TECHNOLOGY

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CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.

ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

MEN LT BOXER SHORTS

NG-Y000S19M

COMPOSITION
90% Polyamide
3% Polypropylen
7% Elastane



MEN

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

1 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

A high-tech knit technology that ensures optimal support and comfortable temperature regulation. Varying ribbing and surface construction ensures support, plus transports moisture as well as warmth.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

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3 EXPANSIONKNEE®

Protects from the cold, even when the knee is bent.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

4 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone.

That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

5 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

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9 AIRCONDITIONINGSPOT

The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

10 ISO RIBS

Enables targeted insulation of individual body parts to protect the body from freezing.

11 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and supports without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

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CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

MEN PANTS 3/4

NG-YP07W19M

COMPOSITION
90% Polyamide
5% Polypropylen
5% Elastane



MEN

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

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Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

7 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

8 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

9 AIRCONDITIONINGSPOT

The back of the knee sweats quickly and heavily. To process this sweat, a finely knit mesh allows the moisture to pass through, without impairing knee motion. Sweat evaporates and is pushed outward with the help of body warmth. The risk of over-cooling does not exist in this small area.

10 ISO RIBS

Enables targeted insulation of individual body parts to protect the body from freezing.

11 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and supports without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

MEN PANTS

NG-YP05W19M

COMPOSITION
90% Polyamide
5% Polypropylen
5% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 ISO-SHOULDER

Protects the shoulder region from wind and cold.

4 AIRCOMPLEX ZONE

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

5 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

6 SWEAT TRAPS® AT THE TAILBONE

The Sweat Traps® on the lower back are targeted specifically at catching sweat flowing toward the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

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8 AIR GUIDE®

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9 AKTIV-BUND

Keeps the shirt from slipping up or constricting.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

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CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

X-BIONIC®

WOMEN LT SINGLET

NG-YT02S19W

COMPOSITION
90% Polyamide
3% Polypropylen
7% Elastane

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY



WOMEN

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3 ISO-SHOULDER

Protects the shoulder region from wind and cold.

4 SHOULDERPADS

Each individual honeycomb stores warm air for the insulation without restricting the freedom of movement.

5 AIRCOMPLEX ZONE

At the solar plexus, important nerve fibres receive signals that influence the body's entire wellbeing. This sensitive area is protected with special channels. Warm air enclosed there insulates optimally in the cold. The system's structure processes excess sweat from physical activity and ensures appropriate cooling of the core.

6 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

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8 AIR-CONDITIONING CHANNEL®

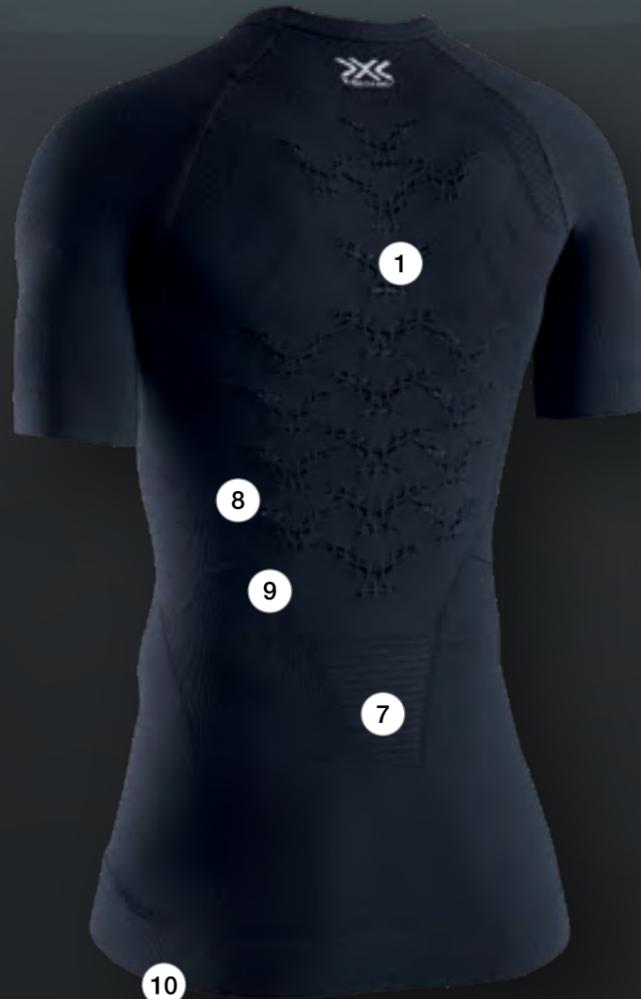
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10 AKTIV-BUND

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CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.

ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

X-BIONIC®

WOMEN LT SHIRT ROUND NECK SH SL

NG-YT00S19W

COMPOSITION
90% Polyamide
3% Polypropylen
7% Elastane

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY



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Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 40 CM² ABSORPTION AREA FOR SWEAT

Since a lot of sweat is produced in the chest area, the 3D Bionic Sphere® System with ThermoSyphon® Technology has been specifically equipped with Sweat Traps® to accelerate the absorption of moisture.

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

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4 ISO-SHOULDER

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7 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

8 SWEAT TRAPS® ON THE BACK

The Sweat Traps® on the lower back are targeted specifically at catching sweat flowing toward the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

9 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® is part of the climate channel system. Physiological studies have shown that there are certain areas to regulate body temperature quickly and effectively. Exchanging fresh air over a network of channels cools these areas without spreading a "cold" sensation throughout the body. The constant air movement along the Air-Conditioning Channels® also effectively draws moisture away from the sweat zones.

10 AIR GUIDE®

The Air-Conditioning Channels® are framed in Air Guide® so that they can also work effectively under a second layer. The evaporation rate is increased.

11 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

12 AKTIV-BUND

Keeps the shirt from slipping up or constricting.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

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CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

X-BIONIC®

WOMEN SHIRT ROUND NECK LG SL

NG-YT06W19W

COMPOSITION
90% Polyamide
5% Polypropylen
5% Elastane

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY



1 TWO-STEP FRONT 3D BIONIC SPHERE® SYSTEM

The high-tech knitting is optimally positioned for more cooling power and perfect climate comfort. The varying construction of Sweat Traps® and 3D Bionic Sphere® System is able to solve the conflict of providing grip whilst transporting sweat and heat.

2 INNERLAP AIRCONDITIONING ZONE®

The inner thighs are less reactive to the cold in terms of muscle performance. This is where the Innerlap AirConditioning Zone® is placed. It is a fine network of knitted fabric with the ZERO Insulation Zone. That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

4 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

5 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

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8 ISO RIBS

Enables targeted insulation of individual body parts to protect the body from freezing.

9 AKTIV-BUND

The highly elastic Aktiv-Bund provides a secure fit and supports without constricting or impeding movement.



RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

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XX-CROSS TECHNOLOGY

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CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.

ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

WOMEN LT BOXER SHORTS

NG-Y000S19W

COMPOSITION
90% Polyamide
3% Polypropylen
7% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

WOMEN

1 SWEAT TRAPS®

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2 EXPANSIONKNEE®

Protects from the cold, even when the knee is bent.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

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That's how cooling via air exchange is made possible. As soon as sweat develops, the cooling function increases since this process is in direct contact with the skin.

4 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

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+ 100% SWISS ENGINEERED

WOMEN PANTS 3/4

NG-YP07W19W

COMPOSITION
90% Polyamide
5% Polypropylen
5% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

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WOMEN

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WOMEN PANTS

NG-YP05W19W

COMPOSITION
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5% Polypropylen
5% Elastane



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2 RELIEF ZONE

Allows for 360° mobility of the arms. No pushing and no pulling. Simply a perfect fit.

3 STABILISATION RIBS

The lateral integrated ribs provide additional stability.

4 FORT-X SUPPORT

The x-shaped construction optimally stabilises the breast tissue. The fine, horizontal bars absorb vibrations, absorb moisture immediately and thus prevent chafing. No feeling of wetness: The innovative channel system in the FORT-X Support absorbs excess sweat immediately and causes it to evaporate. If there is no sweat, the air inclusions insulate against cold.

5 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

6 SEAMLESS COMFORT CUPS

The seamless cups are made of extra-fine material to prevent unwanted friction and offer the athlete maximum comfort.

7 ERGONOMIC RELIEF STRAPS

The Ergonomic Relief Straps guarantee secure support.

8 FIT RIBS

The ergonomically shaped straps are narrow in design, lie pressure-free and offer a secure hold.

9 AKTIV-BUND

Keeps the bra from slipping up or constricting.

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CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

WOMEN REVA SPORTS BRA

NG-Y300S19W

COMPOSITION
85% Polyamide
14% Elastane
1% Polypropylen

COMPOSITION MELANGE
45% Polyamide
40% Polyester
14% Elastane
1% Polypropylen



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

WOMEN

1 FORT-X SUPPORT

The x-shaped construction optimally stabilises the breast tissue. The fine, horizontal bars absorb vibrations, absorb moisture immediately and thus prevent chafing. No feeling of wetness: The innovative channel system in the FORT-X Support absorbs excess sweat immediately and causes it to evaporate. If there is no sweat, the air inclusions insulate against cold.

2 RELIEF ZONE

Allows for 360° mobility of the arms. No pushing and no pulling. Simply a perfect fit.

3 STABILISATION RIBS

The lateral integrated ribs provide additional stability.

4 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

5 SEAMLESS COMFORT CUPS

The seamless cups are made of extra-fine material to prevent unwanted friction and offer the athlete maximum comfort.

6 ELASTIC STRAPS

The elastic straps with adjustment guarantee secure support.

7 FIT RIBS

The ergonomically shaped straps are narrow in design, lie pressure-free and offer a secure hold.

8 AKTIV-BUND

Keeps the bra from slipping up or constricting.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

CLOSEFIT

Flexible fit that adjusts to every body contour. Sits closely without restricting and offers outstanding freedom of movement.



ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

WOMEN SINA SPORTS BRA

NG-Y302S20W

COMPOSITION
85% Polyamide
14% Elastane
1% Polypropylen

COMPOSITION MELANGE
46% Polyamide
43% Polyester
10% Elastane
1% Polypropylen



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PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

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2 CLIMATE FIX SYSTEM

The Climate Fix System with 3D structures cools when you sweat and warms when you are cold. It supports your body's own temperature management and prevents overheating and cooling.

3 RELIEF ZONE

Allows for 360° mobility of the arms. No pushing and no pulling. Simply a perfect fit.

4 STABILISATION RIBS

The lateral integrated ribs provide additional stability.

5 SEAMLESS COMFORT CUPS

The seamless cups are made of extra-fine material to prevent unwanted friction and offer the athlete maximum comfort.

6 ERGONOMIC RELIEF STRAPS

The Ergonomic Relief Straps guarantee secure support.

7 FIT RIBS

The ergonomically shaped straps are narrow in design, lie pressure-free and offer a secure hold.

8 AKTIV-BUND

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ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

X-BIONIC®

WOMEN VICTORIA SPORTS BRA

NG-Y301S20W

COMPOSITION
92% Polyamide
7% Elastane
1% Polypropylen

COMPOSITION MELANGE
58% Polyamide
34% Polyester
7% Elastane
1% Polypropylen

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY



WOMEN

X-BIONIC ENERGIZER® 4.0
DECISION LAYER | MEN

ENERGIZER® 4.0

+ 100% SWISS ENGINEERED

X-BIONIC®

SHIRT ROUND NECK LG SL
NG-YT06W19M

SIZES: XS S M L XL XXL



A010
TEAL BLUE/
ANTHRACITE
- C/O -

B002
OPAL BLACK/
ARCTIC WHITE
- C/O -

Y011
PHYTON YELLOW/
ANTHRACITE
- EOL -

LT ROUND NECK SH SL
NG-YT00S19M

SIZES: XS S M L XL XXL



B002
OPAL BLACK/
ARCTIC WHITE
- IN DEV. -

W008
ARCTIC WHITE/
DOLOMITE GREY
- C/O -

ENERGY
ACCUMULATOR®

PATRIOT EDITION

LT V-NECK SH SL
NG-YT01S19M

SIZES: XS S M L XL XXL



B002
OPAL BLACK/
ARCTIC WHITE
- C/O -

W001
ARCTIC WHITE
- C/O -

LT SINGLET
NG-YT02S19M

SIZES: XS S M L XL XXL



B002
OPAL BLACK/
ARCTIC WHITE
- C/O -

W008
ARCTIC WHITE/
DOLOMITE GREY
- C/O -

RADIATOR®

APANI MERINO®

LT BOXER SHORTS
NG-Y000S19M

SIZES: XS S M L XL XXL



B002
OPAL BLACK/
ARCTIC WHITE
- C/O -

W008
ARCTIC WHITE/
DOLOMITE GREY
- C/O -

PANTS 3/4
NG-YP07W19M

SIZES: XS S M L XL XXL



A010
TEAL BLUE/
ANTHRACITE
- C/O -

B002
OPAL BLACK/
ARCTIC WHITE
- C/O -

PANTS
NG-YP05W19M

SIZES: XS S M L XL XXL



B002
OPAL BLACK/
ARCTIC WHITE
- C/O -

INVENT®

ENERGIZER®

JACKETS

NOTES

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COMPLIMENTARY

SHIRT ROUND NECK LG SL
NG-YT06W19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK/
ARCTIC WHITE - C/O -
P005 NEON FLAMINGO/
ANTHRACITE - C/O -

LT SHIRT ROUND NECK SH SL
NG-YT00S19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK/
ARCTIC WHITE - C/O -
W008 ARCTIC WHITE/
DOLOMITE GREY - C/O -

REVA SPORTS BRA
NG-Y300S19W

SIZES: XS S M L XL XXL



B001 OPAL BLACK - C/O -
G003 PEARL GREY
MELANGE - C/O -
W001 ARCTIC WHITE - C/O -

LT SINGLET
NG-YT02S19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK/
ARCTIC WHITE - C/O -
W008 ARCTIC WHITE/
DOLOMITE GREY - C/O -

LT BOXER SHORTS

SIZES: XS S M L XL XXL



B002 OPAL BLACK/
ARCTIC WHITE - C/O -
W008 ARCTIC WHITE/
DOLOMITE GREY - C/O -

SINA SPORTS BRA
NG-Y302S20W

NG-Y302S19W (EOL)

SIZES: XS S M L XL XXL

SIZES: XS S M L XL XXL



B001 OPAL BLACK - C/O -
G003 PEARL GREY
MELANGE - C/O -
W001 ARCTIC WHITE - C/O -
B001 OPAL BLACK - EOL -
G003 PEARL GREY
MELANGE - EOL -
W001 ARCTIC WHITE - EOL -

PANTS 3/4
NG-YP07W19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK/
ARCTIC WHITE - C/O -
P005 ARCTIC WHITE/
DOLOMITE GREY - C/O -

PANTS
NG-YP05W19W

SIZES: XS S M L XL XXL



B002 OPAL BLACK/
ARCTIC WHITE - C/O -

VICTORIA SPORTS BRA
NG-Y301S20W

NG-Y301S19W (EOL)

SIZES: XS S M L XL XXL

SIZES: XS S M L XL XXL



B001 OPAL BLACK - C/O -
G003 PEARL GREY
MELANGE - C/O -
W001 ARCTIC WHITE - C/O -
B001 OPAL BLACK - EOL -
G003 PEARL GREY
MELANGE - EOL -
W001 ARCTIC WHITE - EOL -

NOTES

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NOTES

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JACKETS

TRANSMISSION AND
SHELTER LAYER



WINTER SPORTS

X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

X-BIONIC® SYSTEMGEAR

Patented in 21 Countries:
AT, BE, CH, CZ, DE, DK, ES, FI, FR, GB, HR,
IT, LU, NL, PL, PT, RO, SE, SI, SK, TR

03 SHELTER LAYER

The job of the third layer is to protect the body during physical activity from outside influences such as cold, wind and rain. In that way it achieves overarching performance without detracting from the function of the layers underneath.

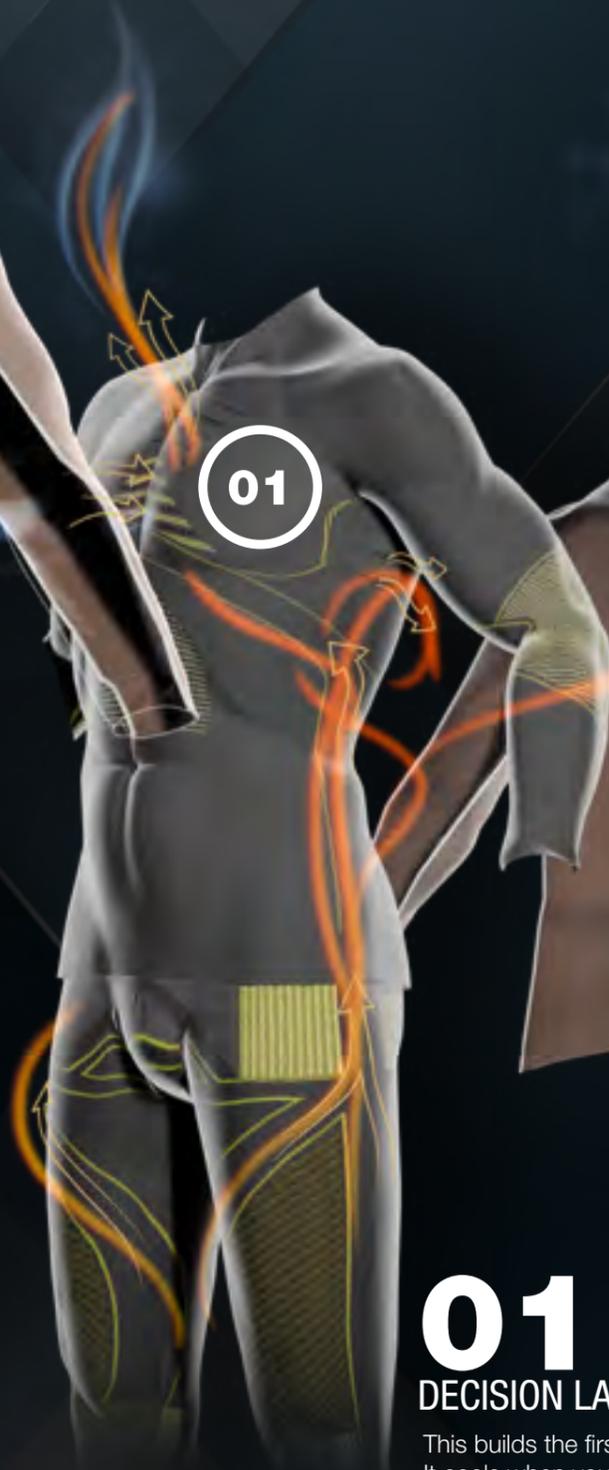


Achieve your full potential in all environmental conditions.

Until now athletes needed a broad assortment of varying technical pieces to adapt optimally to different environmental conditions. The patented X-BIONIC® SystemGear revolutionises this basic concept.

Every X-BIONIC® component on its own already can be used in a much broader spectrum of conditions than traditional functional apparel. Be it cold or hot, it supports the optimal body core temperature of 37 °C with intelligent, highly efficient moisture management.

That's why there are decisive advantages to X-BIONIC® SystemGear: a highly efficient, interactive layering system that with only a few components can create the perfect moisture management. With it, athletes of all types who do all kinds of sports in all sorts of conditions are outfitted and ready. They can make decisions easier about which is the correct piece of apparel to use than ever before, and they enjoy the security of knowing they will achieve their true performance ability.



01 DECISION LAYER

This builds the first and decisive layer of the system. It cools when you sweat and warms when you're cold. During higher levels of activity a thin, cooling film of moisture is maintained while excess sweat will be transported away. During light activity, the Decision Layer insulates. The result? The body remains optimally regulated, and the athlete longer able to perform powerfully.

02

02 TRANSMISSION LAYER

The second layer of the system disperses the moist warmth in the inner milieu, without allowing the moisture to condense, and therefore stabilises the cooling effect of the first layer. At the same time it builds channels and spaces in which warm air can be collected and stored. If however the weather is warm, it holds the insulating heat of the Transmission Layer away from the body.



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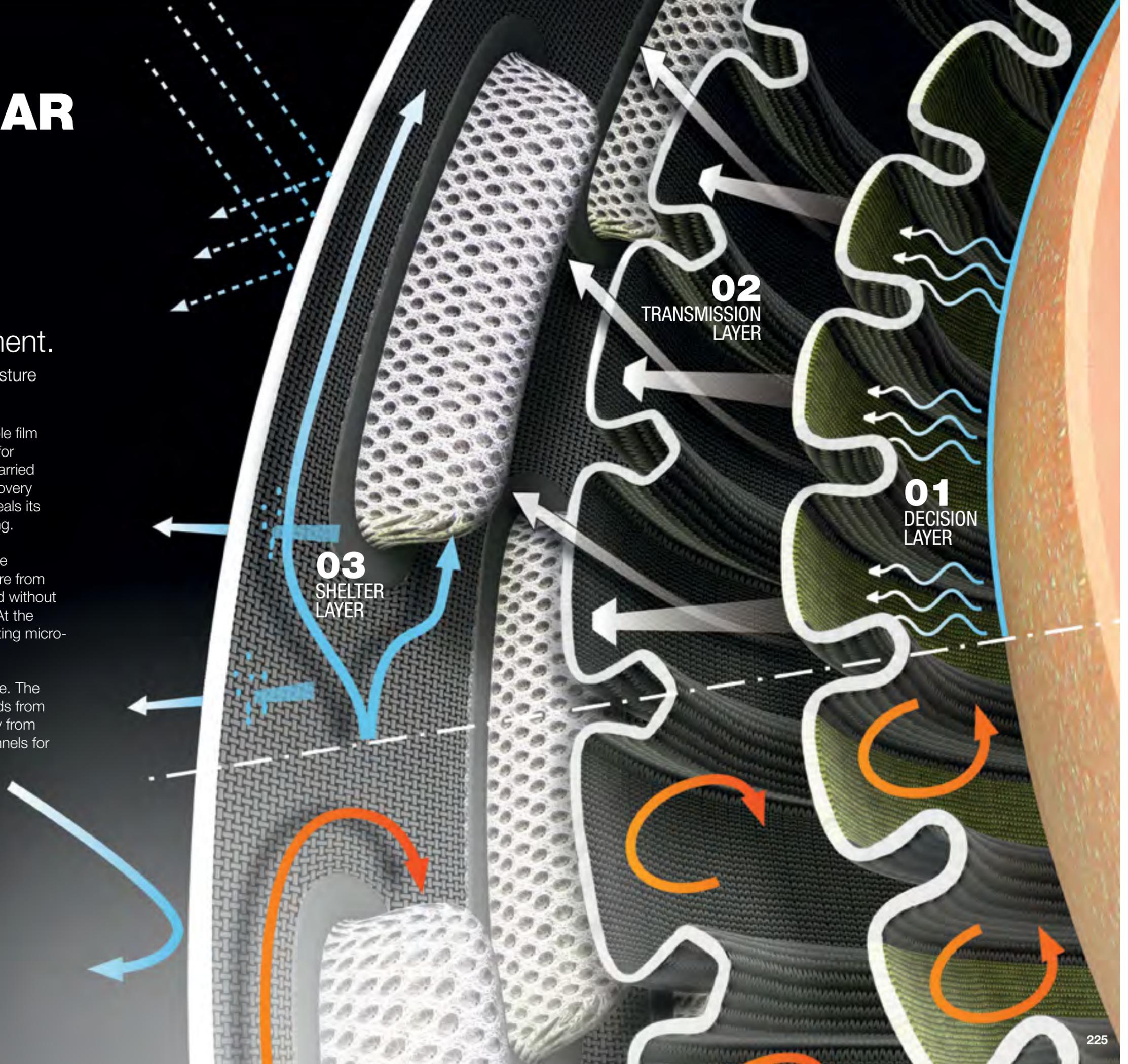
X-BIONIC® SYSTEMGEAR

Patented in 21 Countries:
AT, BE, CH, CZ, DE, DK, ES, FI, FR, GB, HR,
IT, LU, NL, PL, PT, RO, SE, SI, SK, TR

Teamwork for superior temperature management.

Cooling or warming effect through moisture regulation.

1. The Decision Layer leaves an imperceptible film of moisture on the skin that can be used for evaporative cooling. Excess moisture is carried outward to the Transmission Layer. In recovery or inactive phases the Decision Layer reveals its insulative abilities and protects from chilling.
2. Condensation-free moisture transport. The Transmission Layer takes over the moisture from the Decision Layer and transfers it onward without condensation to the outer Shelter Layer. At the same time, it builds a temperature-regulating micro-climate around the body.
3. Exterior protection and moisture discharge. The Shelter Layer transports moisture outwards from the Transmission Layer, protects the body from environmental influences, and builds channels for effective air circulation and insulation.

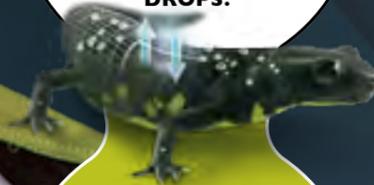


X-BIONIC®
ENERGY ACCUMULATOR®
PATRIOT EDITION®
RADIATOR®
APANI MERINO®
INVENT®
ENERGIZER®
JACKETS
COMPLIMENTARY

DRY JACKET, NO HEAT BUILD-UP: SYMBIONIC® MEMBRANE.



**THE AWARD-WINNING
MEMBRANE THAT EVEN
BREATHES WATER
DROPS.**



- Windproof
- The inside of the jacket stays dry
- Transports sweat as steam AND drops to the outside
- Reduced risk of heat build-up
- Increased breathability, especially at high air humidity

The unique symbionic® membrane from X-BIONIC® is capable not only of wicking away water vapour but also whole droplets of water. That makes it vastly different from other membranes. This prevents moisture on the inside of the jacket and rules out the possibility of overheating.



ONE OF OUR BIGGEST IDEA PROVIDERS IS
12 CENTIMETRES LONG.

Conventional membranes
gets wet inside.

symbionic® membrane
stays dry inside.

CONVENTIONAL MEMBRANES
transport ONLY water vapour.

SYMBIONIC® MEMBRANE
transports water vapour AND sweat droplets.

PTFE

PTFE membranes have thousands of microscopic holes.

3 seconds

They cannot transport beads of sweat, particularly because the holes clog easily. The drops remain on the inside of the jacket.

6 seconds

The jacket gets wet on the interior and sweat starts to trickle down.

8 seconds

SYMBIONIC®

The structured interior of the membrane divides the sweat drops into the smallest pieces and then immediately absorbs them.

3 seconds

The fabric's structure transports moisture driven by your own body heat to the exterior, even at high humidity.

6 seconds

The jacket stays dry inside. The droplet evaporates on the outer surface of the membrane.

8 seconds

Amphibians have a unique talent: they do not drink, but instead they absorb moisture through the skin and store it in their lymph sacs. The secret lies in their extraordinary skin structure. Anyone deciphering this and imitating it with the aid of technology, has got a highly efficient system for transporting sweat through layers of clothing. X-BIONIC® has done exactly that. The unique symbionic® membrane is based on bionic research relating to cutaneous respiration in amphibians.



**2010 International
symbionic® membrane**
"Awarded for:

- environmental impact (either in production or use)
- degree of innovation
- comparison with existing materials and processes
- means of presentation
- potential for development"



3D BIONIC® SPHERE SYSTEM WITH ThermoSyphon® Technology

Cools you when you sweat.
Warms when you're cold.



DURING ACTIVITY

Cools when you sweat



DURING RECOVERY

Warms when you are cold

In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR



red dot award 2018 winner



37°C CCR TECHNOLOGY

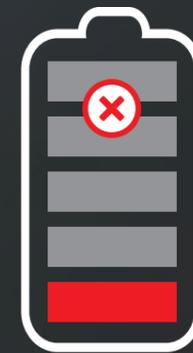
Better performance at the right temperature

"Endurance athletes use up to 97% of their energy in extreme cases just to maintain their optimal body core temperature of 37°C. That leaves only 3% for performance."

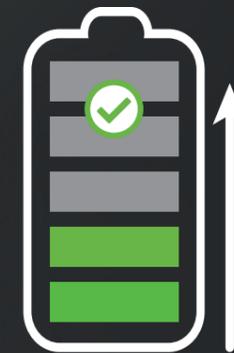
Dr. Ückert, Dortmund University.

Energy consumption needed to maintain 37°C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37°C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.



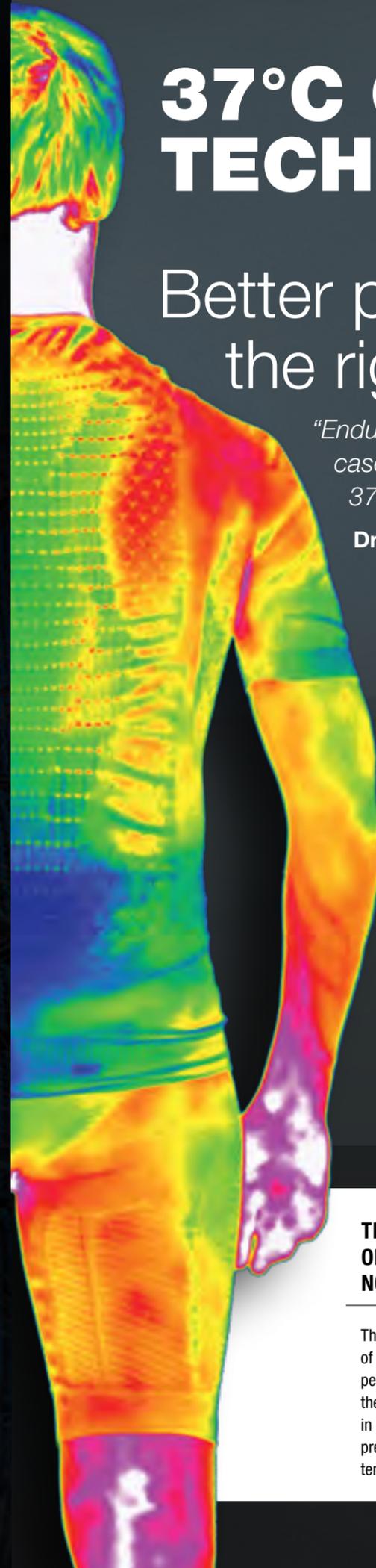
Usable power for your performance without energy-saving technology.



More usable power for your performance with energy-saving technology from X-BIONIC®.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37°C with our patented technologies.



- 1 DIFFUSER**
Moist warm air rises up the back to your collar. The vertical channels in the diffuser construction on the high inside of the collar keep it off the neck and thus form the chimney pot of a flue through which the steamy sweat can get outside.
- 2 SWEAT TRAPS®**
Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively
Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR
- 3 IDEO-WAISTBAND**
The ergonomically shaped waistband provides a better fit during movement.
- 4 3D BIONIC SPHERE® SYSTEM**
Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.
- 5 AKTIV-BUND**
The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®
Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®
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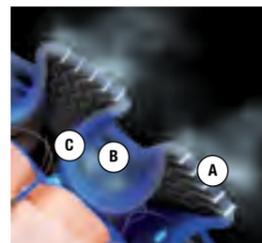
3D BIONIC SPHERE® SYSTEM

Leaves residual moisture on the skin that the body does not interpret as dampness. We have no sensors for sweat. We can only perceive sweat mechanically once drops form and begin to trickle down. Only at that point do we register «wet». Sweat Traps® absorb this moisture before it is felt, drawing it away to be evaporated and disposing of it through thermal dynamics. Only a thin film of moisture remains on the skin. Cooling is of course not possible without moisture. Why? No perspiration film – No cooling.

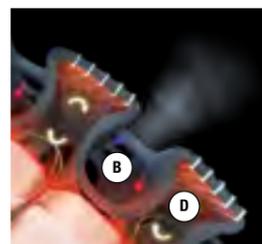
SWEAT HELPS SAVE ENERGY

Traditional functional undergarments siphon off all sweat, leading the body to continue to increase its sweat production. The result is loss of water, minerals and salt. The patented and unique 3D Bionic Sphere® System retains important resources to keep you performing better. Less energy is expended in regulating body heat, leaving you more energy reserves for your training.

DURING ACTIVITY



- A Evaporation Surface Expander®**
Evaporation across a large surface to process excess moisture.
- B OuterAirChannel**
Excess moisture is continuously replaced by the subsequent flow of fresh air.
- C Sweat Traps®**
Transfer excess moisture.



- B OuterAirChannel**
During recovery, the cooling-down process is interrupted by the absence of sweat.
- D InnerAirChannel**
Warm air is stored inside.

Scientific illustration



TRANSMISSION LAYERS SHELTER LAYERS

MEN RACOON 4.0 JACKET

RC-YJ16S20U

COMPOSITION
90% Polyamide
7% Polypropylen
3% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

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XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

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TRANSMISSION LAYERS SHELTER LAYERS

MEN RACOON 4.0 ZIP UP

RC-YT20S20U

COMPOSITION
90% Polyamide
7% Polypropylen
3% Elastane



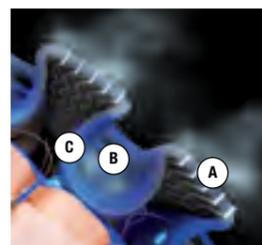
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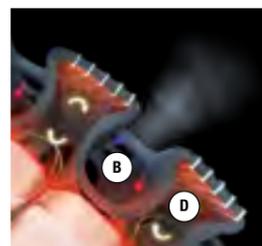
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Evaporation across a large surface to process excess moisture.

B OuterAirChannel
Excess moisture is continuously replaced by the subsequent flow of fresh air.

C Sweat Traps®
Transfer excess moisture.



B OuterAirChannel
During recovery, the cooling-down process is interrupted by the absence of sweat.

D InnerAirChannel
Warm air is stored inside.

Scientific illustration

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 DIFFUSER

Moist warm air rises up the back to your collar. The vertical channels in the diffuser construction on the high inside of the collar keep it off the neck and thus form the chimney pot of a flue through which the steamy sweat can get outside.

6-DIMENSIONAL ELASTICITY

The 6-way-stretch fabric allows for extraordinary freedom of movement in any situation.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



3D BIONIC SPHERE® SYSTEM

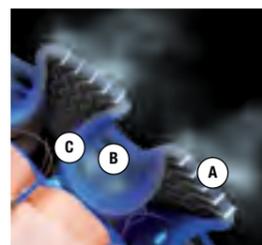
Leaves residual moisture on the skin that the body does not interpret as dampness. We have no sensors for sweat. We can only perceive sweat mechanically once drops form and begin to trickle down. Only at that point do we register «wet». Sweat Traps® absorb this moisture before it is felt, drawing it away to be evaporated and disposing of it through thermal dynamics. Only a thin film of moisture remains on the skin. Cooling is of course not possible without moisture.

Why? No perspiration film – No cooling.

SWEAT HELPS SAVE ENERGY

Traditional functional undergarments siphon off all sweat, leading the body to continue to increase its sweat production. The result is loss of water, minerals and salt. The patented and unique 3D Bionic Sphere® System retains important resources to keep you performing better. Less energy is expended in regulating body heat, leaving you more energy reserves for your training.

DURING ACTIVITY



A Evaporation Surface Expander®

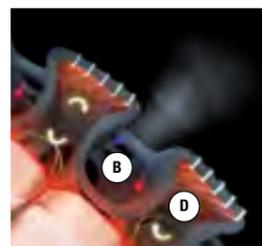
Evaporation across a large surface to process excess moisture.

B OuterAirChannel

Excess moisture is continuously replaced by the subsequent flow of fresh air.

C Sweat Traps®

Transfer excess moisture.



B OuterAirChannel

During recovery, the cooling-down process is interrupted by the absence of sweat.

D InnerAirChannel

Warm air is stored inside.

Scientific illustration

TRANSMISSION LAYERS SHELTER LAYERS

MEN RACCOON 4.0 SPEED ZIP UP

RC-YR20S20M

COMPOSITION

80% Polyamide
20% Elastane

COMPOSITION SECONDARY FABRIC

90% Polyamide
7% Polypropylen
3% Elastane



X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

- 1 DIFFUSER**
Moist warm air rises up the back to your collar. The vertical channels in the diffuser construction on the high inside of the collar keep it off the neck and thus form the chimney pot of a flue through which the steamy sweat can get outside.
- 2 CLIMATE FIX SYSTEM**
The Climate Fix System with 3D structures cools when you sweat and warms when you are cold. It supports your body's own temperature management and prevents overheating and cooling.
- 3 IDEO-WAISTBAND**
The ergonomically shaped waistband provides a better fit during movement.
- 4 3D BIONIC SPHERE® SYSTEM**
Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.
- 5 AKTIV-BUND**
The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

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Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

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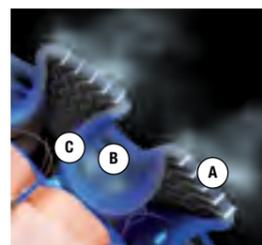
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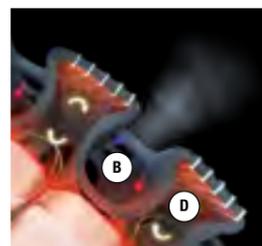
DURING ACTIVITY



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Evaporation across a large surface to process excess moisture.

B OuterAirChannel
Excess moisture is continuously replaced by the subsequent flow of fresh air.

C Sweat Traps®
Transfer excess moisture.



B OuterAirChannel
During recovery, the cooling-down process is interrupted by the absence of sweat.

D InnerAirChannel
Warm air is stored inside.

Scientific illustration



TRANSMISSION LAYERS SHELTER LAYERS

MEN INSTRUCTOR JACKET

ND-YJ16S20U

COMPOSITION
96% Polyamide
3% Elastane



X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

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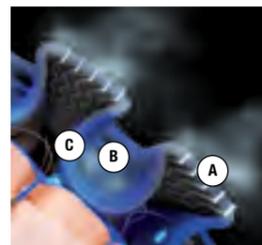
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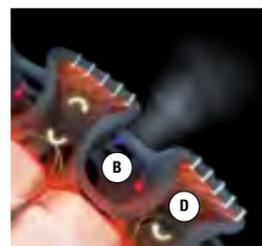
DURING ACTIVITY



A Evaporation Surface Expander®
Evaporation across a large surface to process excess moisture.

B OuterAirChannel
Excess moisture is continuously replaced by the subsequent flow of fresh air.

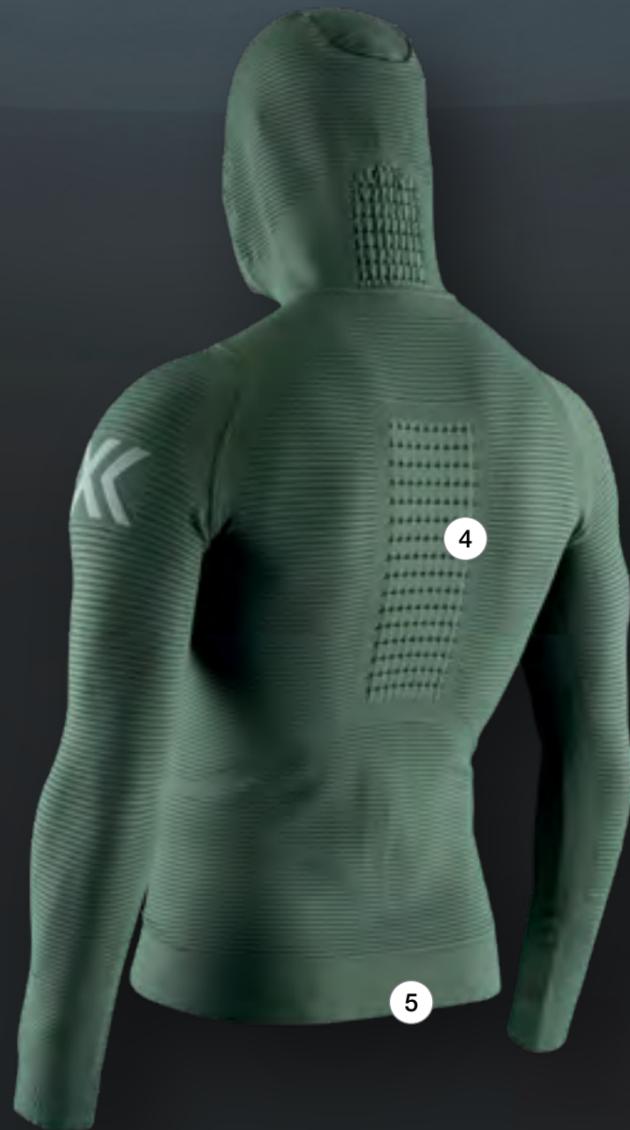
C Sweat Traps®
Transfer excess moisture.



B OuterAirChannel
During recovery, the cooling-down process is interrupted by the absence of sweat.

D InnerAirChannel
Warm air is stored inside.

Scientific illustration



TRANSMISSION LAYERS SHELTER LAYERS

MEN INSTRUCTOR HOODED JACKET

ND-YJ51S20U

COMPOSITION
96% Polyamide
3% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

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Moist warm air rises up the back to your collar. The vertical channels in the diffuser construction on the high inside of the collar keep it off the neck and thus form the chimney pot of a flue through which the steamy sweat can get outside.
- 2 **REFLECTORS**
For good visibility and improved safety in night-time traffic.
- 3 **SIDE POCKETS**
- 4 **3D BIONIC SPHERE® SYSTEM**
Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.
- 5 **SWEAT TRAPS® ON THE BACK**
Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively
Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

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The 6-way-stretch fabric allows for extraordinary freedom of movement in any situation.

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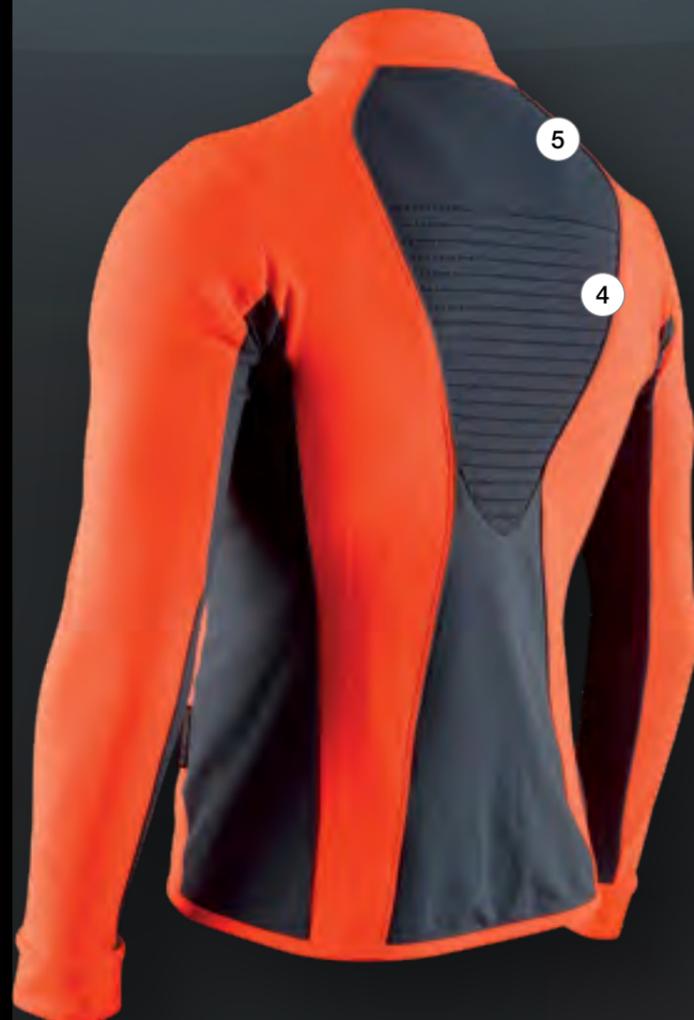
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XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

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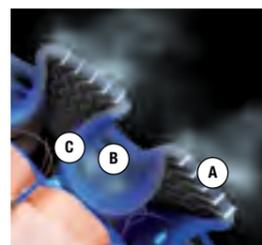
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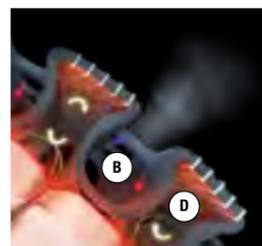
DURING ACTIVITY



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Evaporation across a large surface to process excess moisture.

B OuterAirChannel
Excess moisture is continuously replaced by the subsequent flow of fresh air.

C Sweat Traps®
Transfer excess moisture.



B OuterAirChannel
During recovery, the cooling-down process is interrupted by the absence of sweat.

D InnerAirChannel
Warm air is stored inside.

Scientific illustration

TRANSMISSION LAYERS SHELTER LAYERS

MEN BEAVER 3.0 JACKET FULL ZIP

BE-YJ16S20M

COMPOSITION
85% Polyester
15% Elastane

COMPOSITION SECONDARY FABRIC
90% Polyamide
7% Polypropylen
3% Elastane



X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

- 1 **PRESET RUNNING SLEEVE**
The pre-shaped sleeve reduces the amount of fabric in the elbow area.
- 2 **IDEO-WAISTBAND**
The ergonomically shaped waistband provides a better fit during movement.
- 3 **3D BIONIC SPHERE® SYSTEM**
Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.
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The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.
Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR
- 5 **BACK POCKET**
Secure storage with quick access.

SYMBIONIC® MEMBRANE
The unique, wind proof Symbionic® Membrane is based on bionic research in connection with the skin breathing of amphibians. Symbionic® is a closed membrane that has no pores that can become obstructed. Droplets of perspiration are distributed thoroughly along the interior side and drawn into the membrane, which has a structure that can process and whisk outwards a lot of moisture. That works with water vapour plus droplets of perspiration.

RETINA®
Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®
Intellyarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

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SYMBIONIC®
the bionic membrane

THE AWARD-WINNING MEMBRANE THAT EVEN BREATHES WATER DROPS.

- Windproof
- The inside of the jacket stays dry
- Transports sweat as steam AND drops to the outside
- Reduced risk of heat build-up
- Increased breathability, especially at high air humidity

TRANSMISSION LAYERS
SHELTER LAYERS

MEN RAINSPHERE 4.0 RUN JACKET

RS-RJ06S20M

COMPOSITION
79% Polyester
21% Elastane

COMPOSITION SECONDARY FABRIC
90% Polyamide
7% Polypropylen
3% Elastane



X-BIONIC®
ENERGY ACCUMULATOR®
PATRIOT EDITION
RADIATOR®
APANI MERINO®
INVENT®
ENERGIZER®
JACKETS
COMPLIMENTARY

MEN

1 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

2 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research.

The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

3 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY

The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.

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TRANSMISSION LAYERS SHELTER LAYERS

X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

RAINSPHERE 4.0 RUN JACKET SH SL

MEN

RS-RJ12S20M

COMPOSITION
79% Polyester
21% Elastane

COMPOSITION SECONDARY FABRIC
90% Polyamide
7% Polypropylen
3% Elastane



THE AWARD-WINNING MEMBRANE THAT EVEN BREATHES WATER DROPS.

- Windproof
- The inside of the jacket stays dry
- Transports sweat as steam AND drops to the outside
- Reduced risk of heat build-up
- Increased breathability, especially at high air humidity

MEN

1 ERGONOMIC BIKE FIT

The specifically shaped pattern of the jacket reduces excess fabric in the frontal area and gives freedom of movement in all cycling positions.

2 IDEO-WAISTBAND

The ergonomically shaped waistband provides a better fit during movement.

3 3D BIONIC SPHERE® SYSTEM

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TRANSMISSION LAYERS SHELTER LAYERS

MEN RAINSPHERE 4.0 BIKE JACKET

RS-BJ06S20M

COMPOSITION

79% Polyester
21% Elastane

COMPOSITION SECONDARY FABRIC

90% Polyamide
7% Polypropylen
3% Elastane



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

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INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

MEN

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ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

RAINSPHERE 4.0 RUN JACKET SH SL

WOMEN

RS-RJ12S20W

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COMPOSITION SECONDARY FABRIC
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- Increased breathability, especially at high air humidity

WOMEN

- 1 PRESET RUNNING SLEEVE**
The pre-shaped sleeve reduces the amount of fabric in the elbow area.
- 2 IDEO-WAISTBAND**
The ergonomically shaped waistband provides a better fit during movement.
- 3 3D BIONIC SPHERE® SYSTEM**
Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.
- 4 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY**
The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.
Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR
- 5 BACK POCKET**
Secure storage with quick access.

SYMBIONIC® MEMBRANE
The unique, wind proof Symbionic® Membrane is based on bionic research in connection with the skin breathing of amphibians. Symbionic® is a closed membrane that has no pores that can become obstructed. Droplets of perspiration are distributed thoroughly along the interior side and drawn into the membrane, which has a structure that can process and whisk outwards a lot of moisture. That works with water vapour plus droplets of perspiration.

RETINA®
Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®
IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®
High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY
X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



THE AWARD-WINNING MEMBRANE THAT EVEN BREATHES WATER DROPS.

- Windproof
- The inside of the jacket stays dry
- Transports sweat as steam AND drops to the outside
- Reduced risk of heat build-up
- Increased breathability, especially at high air humidity

WOMEN RAINSPHERE 4.0 RUN JACKET

RS-RJ06S20W

COMPOSITION
79% Polyester
21% Elastane

COMPOSITION SECONDARY FABRIC
90% Polyamide
7% Polypropylen
3% Elastane



WOMEN

- 1 **ERGONOMIC BIKE FIT**
The specifically shaped pattern of the jacket reduces excess fabric in the frontal area and gives freedom of movement in all cycling positions.
- 2 **IDEO-WAISTBAND**
The ergonomically shaped waistband provides a better fit during movement.
- 3 **3D BIONIC SPHERE® SYSTEM**
Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.
- 4 **3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY**
The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing dampness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity.
Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR
- 5 **BACK POCKET**
Secure storage with quick access.

SYMBIONIC® MEMBRANE
The unique, wind proof Symbionic® Membrane is based on bionic research in connection with the skin breathing of amphibians. Symbionic® is a closed membrane that has no pores that can become obstructed. Droplets of perspiration are distributed thoroughly along the interior side and drawn into the membrane, which has a structure that can process and whisk outwards a lot of moisture. That works with water vapour plus droplets of perspiration.

RETINA®
Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®
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XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®
High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY
X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



SYMBIONIC®
the bionic membrane

THE AWARD-WINNING MEMBRANE THAT EVEN BREATHES WATER DROPS.

- Windproof
- The inside of the jacket stays dry
- Transports sweat as steam AND drops to the outside
- Reduced risk of heat build-up
- Increased breathability, especially at high air humidity

TRANSMISSION LAYERS
SHELTER LAYERS

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

WOMEN RAINSPHERE 4.0 BIKE JACKET

RS-BJ06S20W

COMPOSITION
79% Polyester
21% Elastane

COMPOSITION SECONDARY FABRIC
90% Polyamide
7% Polypropylen
3% Elastane



WOMEN

X-BIONIC® 4.0
TRANSMISSION LAYERS | MEN

RACoon 4.0 JACKET
RC-YJ16S20U

SIZES: XS S M L XL XXL



A003 TEAL BLUE/
DOLOMITE GREY B021 CHARCOAL/
ARCTIC WHITE

RACoon 4.0 ZIP UP
RC-YT20S20U

SIZES: XS S M L XL XXL



E052 OLIVE GREEN/
ANTHRACITE A210 BLUESTONE/
ANTHRACITE

RACoon 4.0 SPEED ZIP UP
RC-YR20S20M

SIZES: XS S M L XL XXL



F000 FLUO YELLOW 0037 ORANGE/BLACK G211 LIGHT GREY B000 BLACK

INSTRUCTOR JACKET
ND-YJ16S20U

SIZES: XS S M L XL XXL



G011 DOLOMITE GREY/
ARCTIC WHITE R011 NAMIB RED/
DOLOMITE GREY

INSTRUCTOR HOODED JACKET
ND-YJ51S20U

SIZES: XS S M L XL XXL



A003 TEAL BLUE/
DOLOMITE GREY E102 OLIVE GREEN/
DOLOMITE GREY

NOTES

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X-BIONIC® 4.0
TRANSMISSION LAYERS | MEN

BEAVER 3.0 JACKET FULL ZIP
BE-YJ16S20M

SIZES: XS S M L XL XXL



F000 FLUO YELLOW 0037 ORANGE/BLACK E035 FOREST GREEN B000 BLACK

NOTES

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X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

X-BIONIC® 4.0
SHELTER LAYERS | MEN

RAINSPHERE 4.0 RUN JACKET SH SL
RS-RJ12S20M

SIZES: XS S M L XL XXL



G014 DOLOMITE GREY/
PHYTON YELLOW
B021 CHARCOAL/
ARCTIC WHITE

RAINSPHERE 4.0 RUN JACKET
RS-RJ06S20M

SIZES: XS S M L XL XXL



G081 CHARCOAL/BLUE
G018 DOLOMITE GREY/
CHARCOAL

RAINSPHERE 4.0 BIKE JACKET
RS-BJ06S20M

SIZES: XS S M L XL XXL



G023 CHARCOAL/
PHYTON YELLOW

NOTES

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X-BIONIC® 4.0
SHELTER LAYERS | WOMEN

RAINSPHERE 4.0 RUN JACKET SH SL
RS-RJ12S20W

SIZES: XS S M L XL XXL



G033 ANTHRACITE/
BRIGHT LAVENDER
G011 DOLOMITE GREY/
ARCTIC WHITE

RAINSPHERE 4.0 RUN JACKET
RS-RJ06S20W

SIZES: XS S M L XL XXL



B021 CHARCOAL/
ARCTIC WHITE
G020 DOLOMITE GREY/
NEON FLAMINGO

RAINSPHERE 4.0 BIKE JACKET
RS-BJ06S20W

SIZES: XS S M L XL XXL



G011 DOLOMITE GREY/
ARCTIC WHITE

NOTES

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X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

COMPLIMENTARIES



WINTER SPORTS

COMPLIMENTARY
JACKETS
ENERGIZER®
INVENT®
APANI MERINO®
RADIATOR®
PATRIOT EDITION
ENERGY ACCUMULATOR®
X-BIONIC®

3D BIONIC® SPHERE SYSTEM WITH ThermoSyphon® Technology

Cools you when you sweat.
Warms when you're cold.



DURING ACTIVITY

Cools when you sweat



DURING RECOVERY

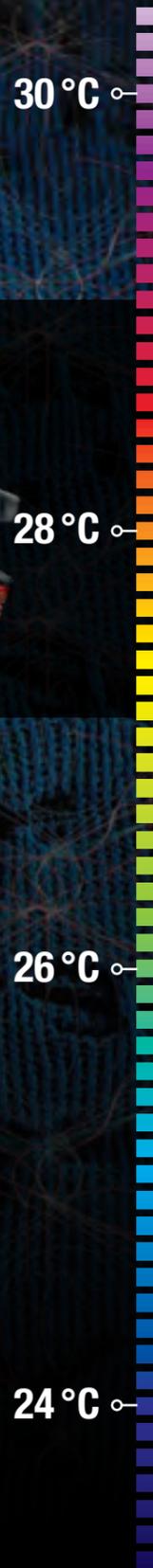
Warms when you are cold

In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR



red dot award 2018 winner



37°C CCR TECHNOLOGY

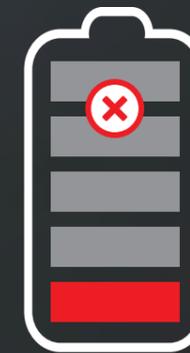
Better performance at the right temperature

"Endurance athletes use up to 97% of their energy in extreme cases just to maintain their optimal body core temperature of 37°C. That leaves only 3% for performance."

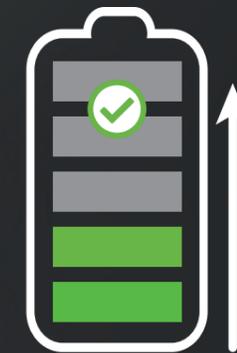
Dr. Ückert, Dortmund University.

Energy consumption needed to maintain 37°C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37°C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.



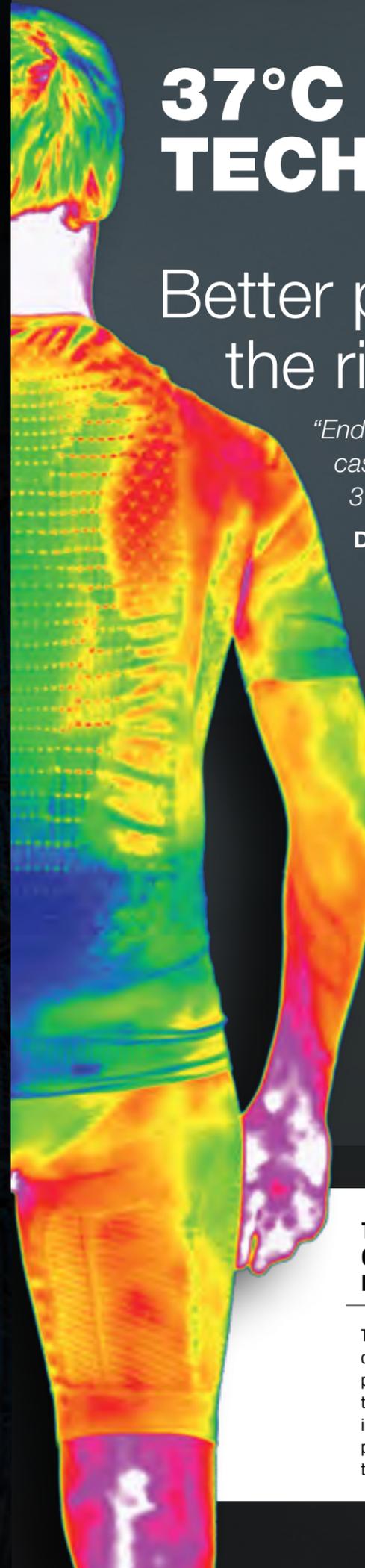
Usable power for your performance without energy-saving technology.



More usable power for your performance with energy-saving technology from X-BIONIC®.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37°C with our patented technologies.



1 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

2 HELIXCOIL TECHNOLOGY

In the structure integrated are two concentric, spiral pressure webs which enclose the muscles and supports them effectively while blood circulation is not hindered.

3 NEURO-RESPONSE-EFFECT

The compression on the arm increases towards the wrist. This gradual compression effectively supports venous blood return.

4 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



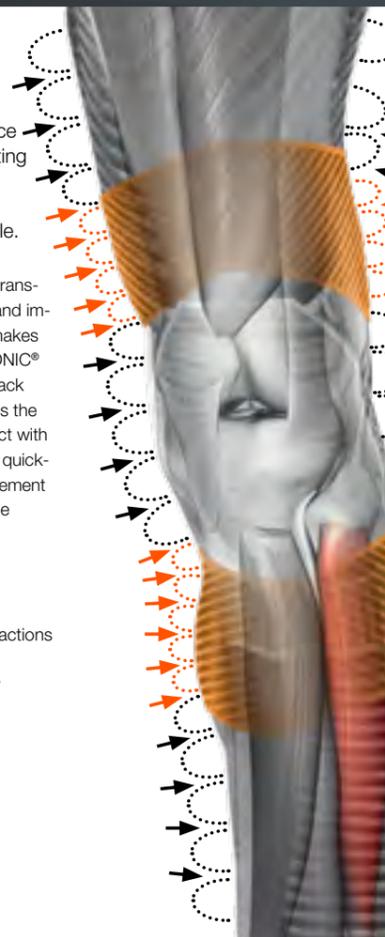
SKIN NODOR®:
HIGHTECH DOWN TO THE SMALLEST ATOM
Inhibits bacterial growth and prevents unpleasant odour.

NEURAL-RESPONSE-EFFECT

Triggers peak performance from your neurons. Sporting success demands great relationships. Especially between brain and muscle.

Muscular stimulus, sensory transmission, signal processing, and impulse return from pressure makes for perfect movement: X-BIONIC® utilises sensory motor feedback control systems and achieves the desired neural response effect with compression. Muscles react quicker and more strongly to movement impulses transmitted from the brain, and your performance increases.

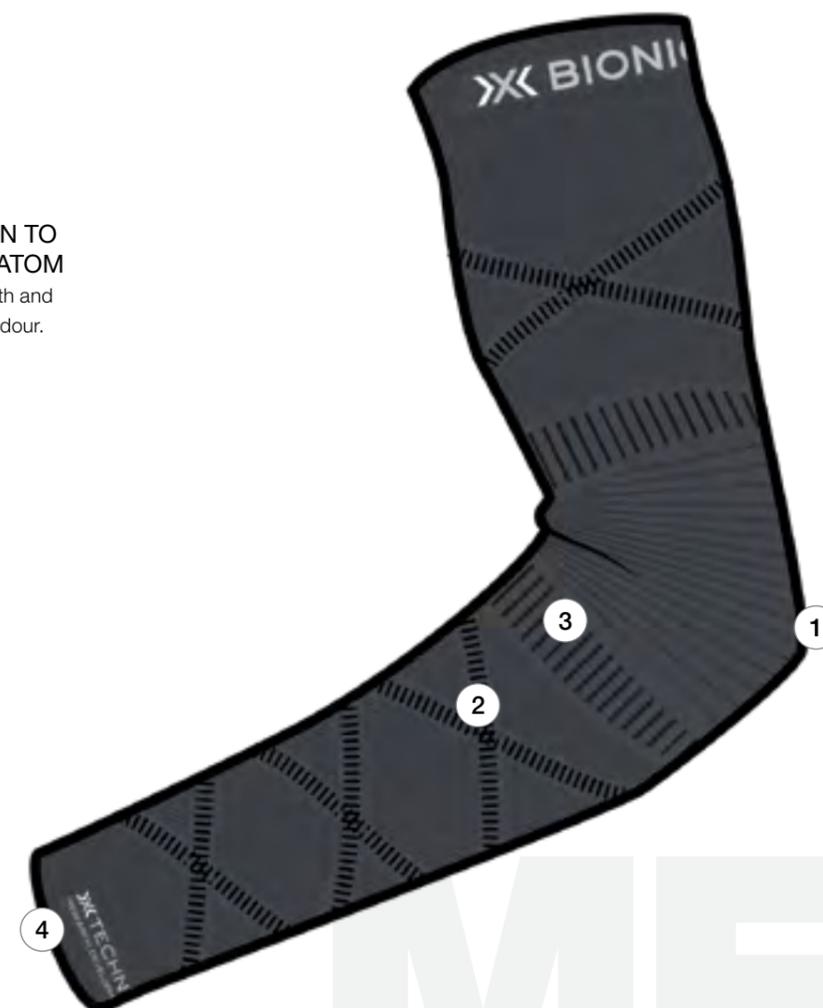
- Quicker reaction time
- Stronger muscle contractions
- Better coordination
- Minimised risk of injury
- Decreased fatigue



MEN HELIXCOIL ARMERGIZER

EA-YW25S20U

COMPOSITION
TBD



WOMEN

1 EXPANSION RIBS®

The Expansion Ribs® that form the elbow cushions, work similarly to the one on the knee area, but are finer. The knitted fabric folds apart, based on the accordion principle, ensuring that winter cold doesn't cool down the elbows. Even when they are sharply bent, elbows continue to be insulated through warm air stored in the ribs' inner structure. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow frictionless freedom of movement.

Patented in 27 countries: AT, BE, CH, CZ, DE, DK, ES, FR, GB, GR, IT, LU, NL, NO, PL, PT, SE, SI, SK, TR, AU, CA, CN, IN, JP, MX, RU

2 X-BIONIC® PARTIALKOMPRESSION®

A new benchmark in compression technology. X-BIONIC® Partialkompression® utilises the advantages of compression without neglecting cooling.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

3 NEURO-RESPONSE-EFFECT

The compression on the arm increases towards the wrist. This gradual compression effectively supports venous blood return.

4 NEURO-RESPONSE-BANDAGE

The Neural-Response-Bandage exerts targeted pressure on the muscle attachment, prepares the receptors for action and improves the work of the muscles.

5 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

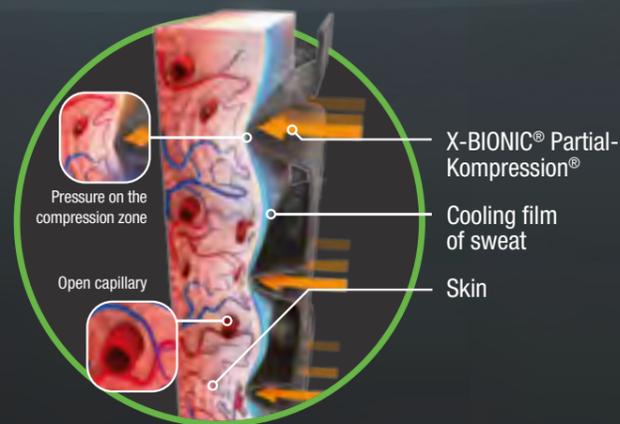
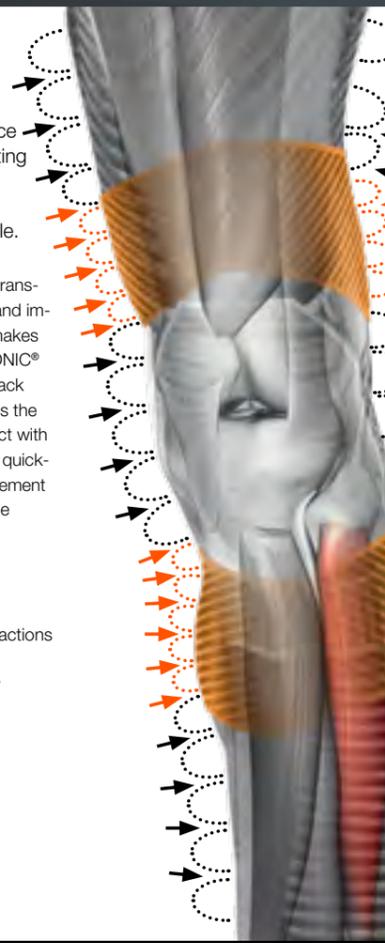
The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

NEURAL-RESPONSE-EFFECT

Triggers peak performance from your neurons. Sporting success demands great relationships. Especially between brain and muscle.

Muscular stimulus, sensory transmission, signal processing, and impulse return from pressure makes for perfect movement: X-BIONIC® utilises sensory motor feedback control systems and achieves the desired neural response effect with compression. Muscles react quicker and more strongly to movement impulses transmitted from the brain, and your performance increases.

- Quicker reaction time
- Stronger muscle contractions
- Better coordination
- Minimised risk of injury
- Decreased fatigue



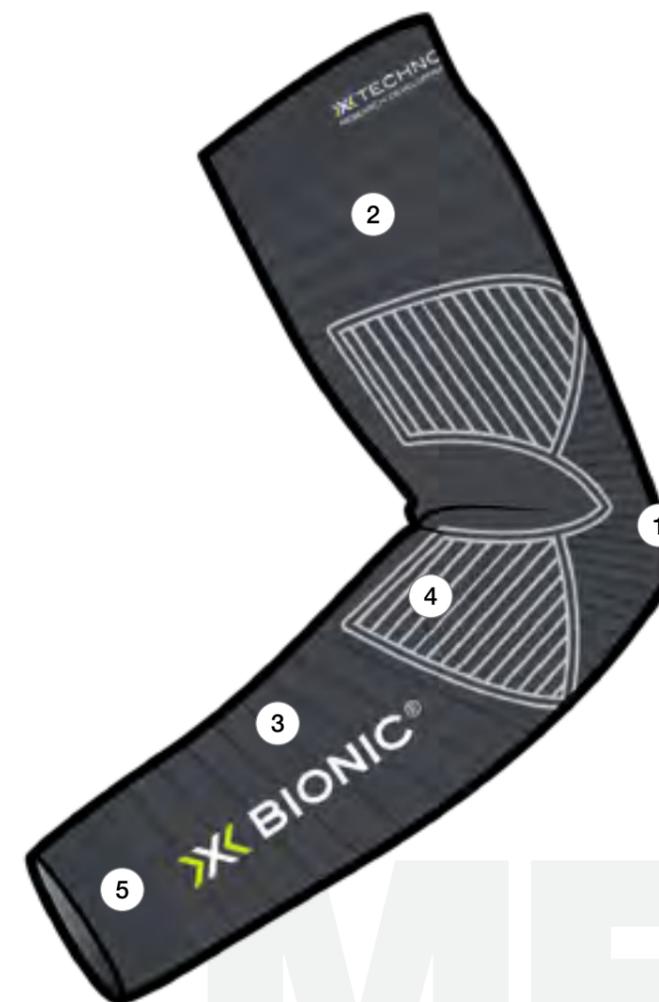
X-BIONIC® PARTIALKOMPRESSION® keeps the capillaries open.

→ The body cools down



SKIN NODOR®: HIGHTECH DOWN TO THE SMALLEST ATOM

Inhibits bacterial growth and prevents unpleasant odour.



COMPLEMENTARIES

MEN WOMEN EFFEKTOR 4.0 ARMERGIZER

EF-BW00S20U

COMPOSITION
TBD

X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

WOMEN

1 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

2 EVAPORATION SURFACE EXPANDER®

Due to the use of a split fibre, the evaporation surface area is enhanced enormously.

3 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

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The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



SKIN NODOR®:
HIGHTECH DOWN TO THE SMALLEST ATOM
Inhibits bacterial growth and prevents unpleasant odour.

COMPLEMENTARIES

MEN | WOMEN WALLABY 4.1

ND-YA11W20U

COMPOSITION
98% Polyamide (Microlon)
2% Elastane

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLEMENTARY

WALLABY TECHNOLOGY

The Wallaby is our inspiration. Evaporative cooling is provided by frequent licking of its underarms. That's how it cools its blood and, thus, its entire body. Scientific studies prove that the human body is at its performance-best at 37°C. X-BIONIC® uses your sweat for cooling and turns it into energy



1. PUT IT ON

Pull the X-BIONIC® Wallaby pulse cooler over your wrist and arrange the 3D Bionic Sphere® System directly over the pulse. This will optimise the effect of the cooling and guarantees that it performs correctly into energy



2. CHARGE IT UP

During exercise, the climatizing channels will be soaked with sweat. Due to the enlarged surface area, this leads to great evaporative cooling. To enhance the cooling, just wipe the Wallaby across your forehead.



3. COOL OFF

Due to the process of evaporation, the blood is cooled directly under the surface of the skin. The cooled blood then flows back through the body, also cooling it down, much the same way as a car's coolant does. You'll feel fresher and more powerful.



WOMEN

1 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

2 X-BIONIC® PARTIALKOMPRESSION®

A new benchmark in compression technology. X-BIONIC® Partialkompression® utilizes the advantages of compression without neglecting cooling.

Patented in 19 countries: AT, CH, DE, ES, FR, GB, IT, PL, TR, AU, BR, CA, IN, JP, KR, MX, NZ, RU, ZA

3 POSITIONING LINE

Align the vertical line exactly along the shin bone to position the Spyker correctly.

4 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

Intelli yarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

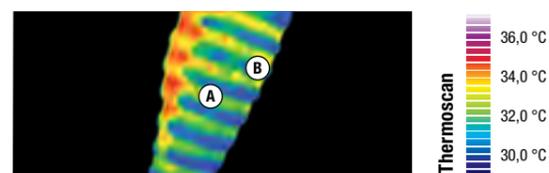
H-DRY TECHNOLOGY

SKIN NODOR®

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37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.



PARTIALKOMPRESSION®

A new benchmark in compression technology. Partialkompression® by X-BIONIC® utilizes the advantages of compression without neglecting cooling.

A PARTIAL PRESSURE POINT

The three-dimensional structure guarantees compression via the webs. Yellow-green colour.

B COMPRESSION-FREE ZONE

A fine film of sweat forms in the cavities during physical activity which supports cooling on the skin. Blue drawing.

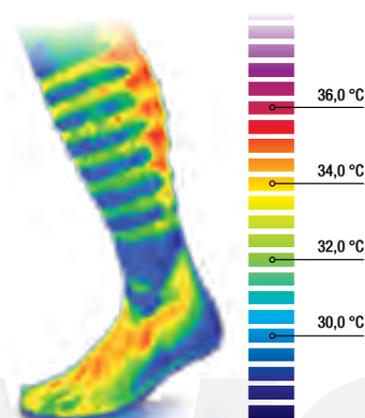


SKIN NODOR®: HIGHTECH DOWN TO THE SMALLEST ATOM

Inhibits bacterial growth and prevents unpleasant odour.

THERMOSCAN

This thermal image proves how X-BIONIC® actively manages the body's climate.

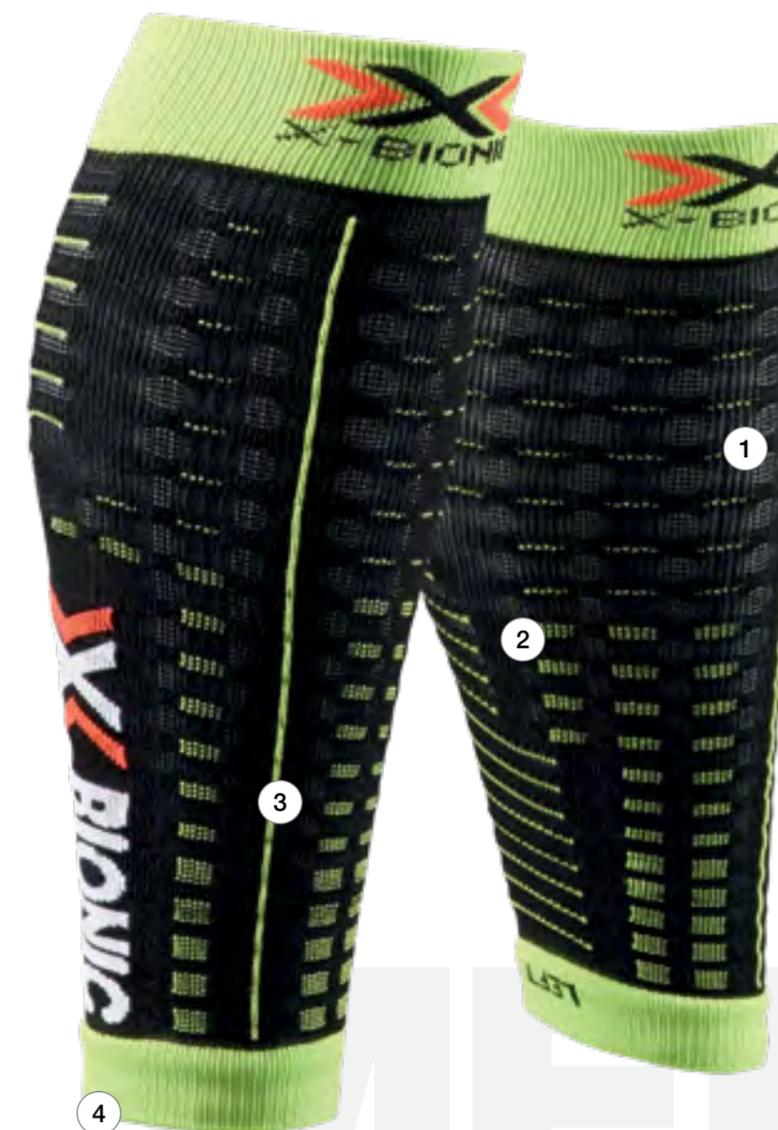


MEN WOMEN

EFFEKTOR 4.0 SPYKER

EF-BW00W19U

COMPOSITION
98% Polyamide (Microlon)
2% Elastane



1
2
3
4

WOMEN

COMPLEMENTARIES

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

1 3D BIONIC SPHERE® SYSTEM ON THE FOREHEAD

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS TECHNOLOGY

H-DRY TECHNOLOGY

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The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

3D BIONIC SPHERE® SYSTEM

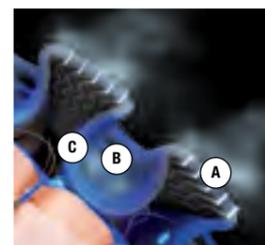
Leaves residual moisture on the skin that the body does not interpret as dampness. We have no sensors for sweat. We can only perceive sweat mechanically once drops form and begin to trickle down. Only at that point do we register «wet». Sweat Traps® absorb this moisture before it is felt, drawing it away to be evaporated and disposing of it through thermal dynamics. Only a thin film of moisture remains on the skin. Cooling is of course not possible without moisture.

Why? No perspiration film – No cooling.

SWEAT HELPS SAVE ENERGY

Traditional functional undergarments siphon off all sweat, leading the body to continue to increase its sweat production. The result is loss of water, minerals and salt. The patented and unique 3D Bionic Sphere® System retains important resources to keep you performing better. Less energy is expended in regulating body heat, leaving you more energy reserves for your training.

DURING ACTIVITY



A Evaporation Surface Expander®

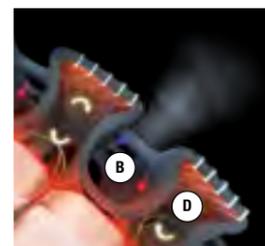
Evaporation across a large surface to process excess moisture.

B OuterAirChannel

Excess moisture is continuously replaced by the subsequent flow of fresh air.

C Sweat Traps®

Transfer excess moisture.



B OuterAirChannel

During recovery, the cooling-down process is interrupted by the absence of sweat.

D InnerAirChannel

Warm air is stored inside.

Scientific illustration

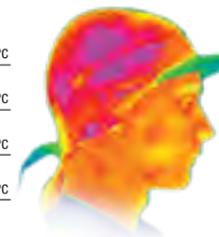
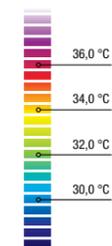


MEN
WOMEN

FENNEC 4.0 CAP WITH VISOR

FE-YC52S20U

COMPOSITION
TBD



THERMOSCAN

This thermal image proves how X-BIONIC® actively manages the body's climate.



XITANIT®: REFLECTS RADIATED HEAT

The revolutionary high performance material Xitanit® can reflect warmth.



SKIN NODOR®: HIGHTECH DOWN TO THE SMALLEST ATOM

Inhibits bacterial growth and prevents unpleasant odour.

COMPLEMENTARIES

X-BIONIC®

ENERGY
ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

1 3D BIONIC SPHERE® SYSTEM ON THE FOREHEAD

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

2 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

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X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

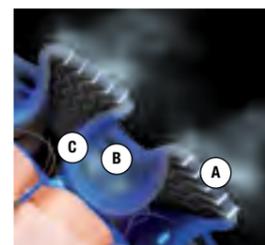
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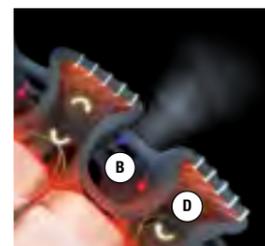
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C Sweat Traps®
Transfer excess moisture.



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D InnerAirChannel
Warm air is stored inside.

Scientific illustration

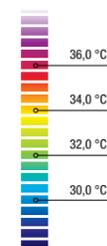


MEN
WOMEN

FENNEC 4.0 HEADBAND WITH VISOR

FE-YH52S20U

COMPOSITION
TBD



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COMPLEMENTARY

MEN
WOMEN

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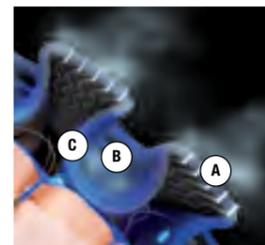
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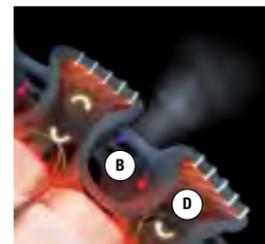
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Scientific illustration



MEN | WOMEN

COMPLEMENTARIES

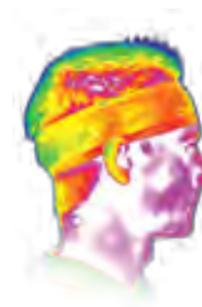
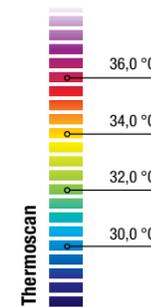
HEADBAND 4.0

ND-YH27W19U

COMPOSITION
92% Polyamide
6% Elastane
2% Polypropylen



SKIN NODOR®:
HIGHTECH DOWN TO THE SMALLEST ATOM
Inhibits bacterial growth and prevents unpleasant odour.



WOMEN

X-BIONIC®
ENERGY ACCUMULATOR®
PATRIOT EDITION
RADIATOR®
APANI MERINO®
INVENT®
ENERGIZER®
JACKETS
COMPLEMENTARY

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XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

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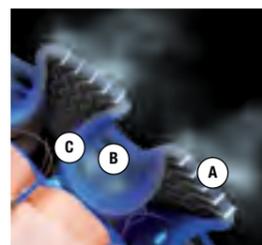
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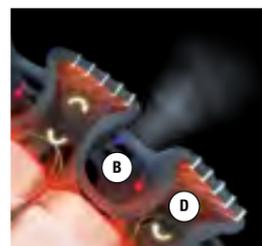
DURING ACTIVITY



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B OuterAirChannel
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D InnerAirChannel
Warm air is stored inside.

Scientific illustration



SKIN NODOR®:
HIGHTECH DOWN TO THE SMALLEST ATOM
Inhibits bacterial growth and prevents unpleasant odour.

COMPLEMENTARIES

MEN HIGH HEADBAND 4.0

ND-YH26W19U

COMPOSITION
90% Polyamide
6% Elastane
4% Polypropylen

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

WOMEN

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2 EARCOMP ZONE®

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SWEAT TRAPS®

3 Trap perspiration before you start to feel it. A channel system that absorbs and optimally evaporates sweat to prevent unpleasant moisture and sweat gutters. Finely knitted material releases excessive heat. When you stop sweating, the crinkled inner structure provides optimum insulation. Perfect temperature equalisation – green areas.

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XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

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EARCOMP ZONE

The ears are particularly sensitive to the cold due to their exposed position. The innovative EarComp Zone provides optimal protection. The 3D-honeycomb structure stores warm air around your ears and guarantees optimal insulation without impairing hearing. Made of a soft, supple material suitable for any head shape. Also provides a perfect fit even when wearing headphones or earbuds.



Interior

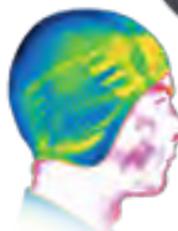
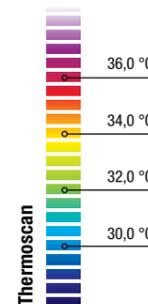


MEN | WOMEN

BONDEAR CAP 4.0

ND-YC29W19U

COMPOSITION
90% Polyamide
6% Elastane
4% Polypropylen



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HIGHTECH DOWN TO THE SMALLEST ATOM
Inhibits bacterial growth and prevents unpleasant odour.

X-BIONIC®
ENERGY ACCUMULATOR®
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JACKETS
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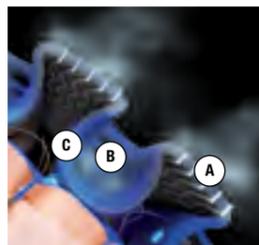
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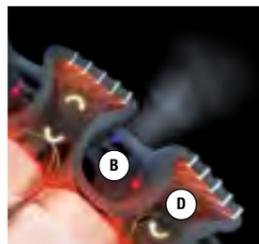
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DURING ACTIVITY



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Evaporation across a large surface to process excess moisture.
- B OuterAirChannel**
Excess moisture is continuously replaced by the subsequent flow of fresh air.
- C Sweat Traps®**
Transfer excess moisture.



- B OuterAirChannel**
During recovery, the cooling-down process is interrupted by the absence of sweat.
- D InnerAirChannel**
Warm air is stored inside.

Scientific illustration



SKIN NODOR®: HIGHTECH DOWN TO THE SMALLEST ATOM

Inhibits bacterial growth and prevents unpleasant odour.



During activity



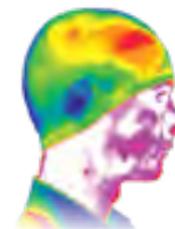
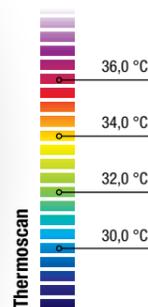
Scientific illustration

During recovery



3D BIONIC SPHERE® SYSTEM ON THE FOREHEAD

A labyrinth of chambers and channels that store warm air, insulating against the cold. Sweat Traps® trap excess perspiration and quickly move it to the outside.



COMPLEMENTARIES

MEN WOMEN HELMET CAP 4.0

ND-YC26W19U

COMPOSITION
92% Polyamide
6% Elastane
2% Polypropylen

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

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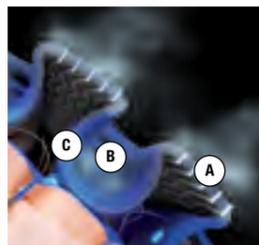
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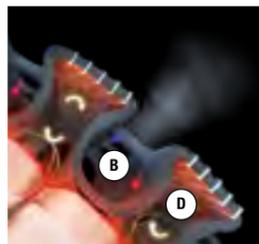
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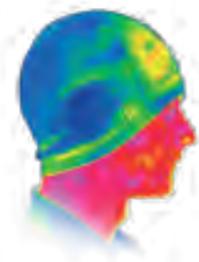
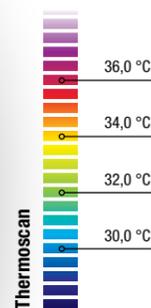
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Scientific illustration



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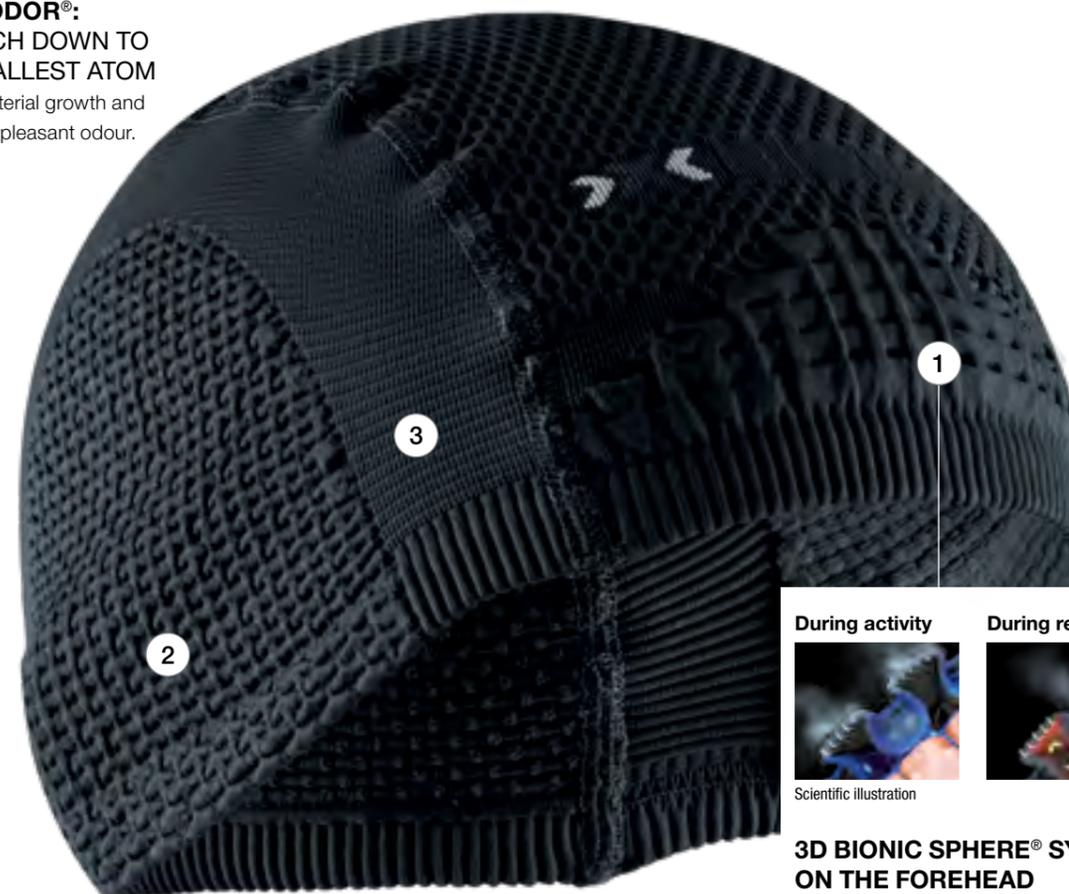


MEN
WOMEN

SOMA CAP LIGHT 4.0

ND-YC25W19U

COMPOSITION
90% Polyamide
6% Elastane
4% Polypropylen



During activity



Scientific illustration

During recovery



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COMPLEMENTARIES

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INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

3D BIONIC SPHERE® SYSTEM

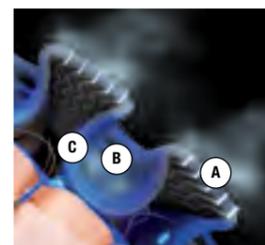
Leaves residual moisture on the skin that the body does not interpret as dampness. We have no sensors for sweat. We can only perceive sweat mechanically once drops form and begin to trickle down. Only at that point do we register «wet». Sweat Traps® absorb this moisture before it is felt, drawing it away to be evaporated and disposing of it through thermal dynamics. Only a thin film of moisture remains on the skin. Cooling is of course not possible without moisture.

Why? No perspiration film – No cooling.

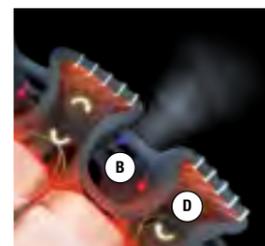
SWEAT HELPS SAVE ENERGY

Traditional functional undergarments siphon off all sweat, leading the body to continue to increase its sweat production. The result is loss of water, minerals and salt. The patented and unique 3D Bionic Sphere® System retains important resources to keep you performing better. Less energy is expended in regulating body heat, leaving you more energy reserves for your training.

DURING ACTIVITY



- A Evaporation Surface Expander®**
Evaporation across a large surface to process excess moisture.
- B OuterAirChannel**
Excess moisture is continuously replaced by the subsequent flow of fresh air.
- C Sweat Traps®**
Transfer excess moisture.



- B OuterAirChannel**
During recovery, the cooling-down process is interrupted by the absence of sweat.
- D InnerAirChannel**
Warm air is stored inside.

Scientific illustration



SKIN NODOR®: HIGHTECH DOWN TO THE SMALLEST ATOM

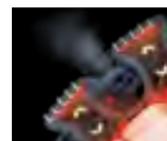
Inhibits bacterial growth and prevents unpleasant odour.

During activity



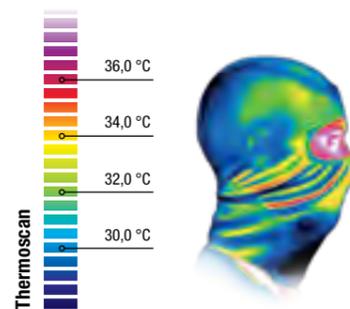
Scientific illustration

During recovery



3D BIONIC SPHERE® SYSTEM ON THE FOREHEAD

A labyrinth of chambers and channels that store warm air, insulating against the cold. Sweat Traps® trap excess perspiration and quickly move it to the outside.



COMPLEMENTARIES

MEN WOMEN STORMCAP EYE 4.0

ND-YC27W19U

COMPOSITION
90% Polyamide
6% Elastane
4% Polypropylen



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

1 3D BIONIC SPHERE® SYSTEM ON THE FOREHEAD

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

2 WARMING ZONE

The 3D Honeycomb structure stores warm air and guarantees optimum insulation.

3 SWEAT TRAPS®

Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

RETINA®

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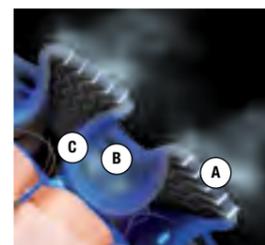
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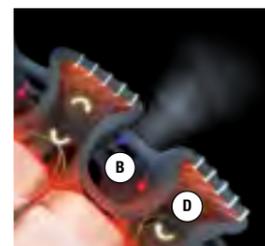
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Scientific illustration



SKIN NODOR®: HIGHTECH DOWN TO THE SMALLEST ATOM

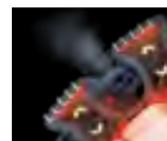
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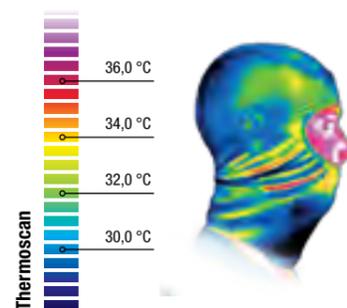
Scientific illustration

During recovery



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COMPLEMENTARIES

MEN
WOMEN

STORMCAP FACE 4.0

ND-YC28W19U

COMPOSITION
90% Polyamide
6% Elastane
4% Polypropylen



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY ON THE BACK

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 ISO-PAD ON THE NOSE

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads are placed on the nose.

3 ISO-PAD ON THE CHEEKS

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads are placed on the cheeks.

4 ZERO INSULATION ZONE

Excess warmth can scape easily due to the very thin knitting structure, avoiding air condensation inside the garment.

5 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® dissipates heat at a controlled rate. The fine knitted structure immediately ducts moisture away.

RETINA®

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XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

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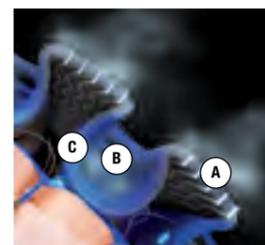
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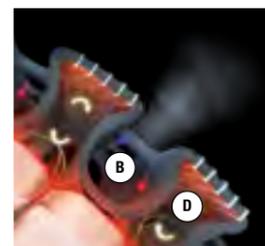
DURING ACTIVITY



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Evaporation across a large surface to process excess moisture.

B OuterAirChannel
Excess moisture is continuously replaced by the subsequent flow of fresh air.

C Sweat Traps®
Transfer excess moisture.



B OuterAirChannel
During recovery, the cooling-down process is interrupted by the absence of sweat.

D InnerAirChannel
Warm air is stored inside.

Scientific illustration



MEN | WOMEN

NECKWARMER 4.0

ND-YA27W19U

COMPOSITION
77% Polyamide
18% Elastane
5% Polypropylen



SKIN NODOR®:
HIGHTECH DOWN TO THE SMALLEST ATOM
Inhibits bacterial growth and prevents unpleasant odour.

COMPLEMENTARIES

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

WOMEN

HELIXCOIL ARMERGIZER
EA-YW25S20U

SIZES: T1 T2 T3 T4



P006 NEON FLAMINGO/DOLOMITE GREY
A003 TEAL BLUE/DOLOMITE GREY
B025 CHARCOAL/PEARL GREY
B021 CHARCOAL/ARCTIC WHITE
E031 EFFEKTOR GREEN/ARCTIC WHITE
A031 EFFEKTOR TURQUOISE/ARCTIC WHITE

EFFEKTOR 4.0 ARMERGIZER
EF-BW00S20U

SIZES: T1 T2 T3 T4



P006 NEON FLAMINGO/DOLOMITE GREY
A003 TEAL BLUE/DOLOMITE GREY
B025 CHARCOAL/PEARL GREY
B021 CHARCOAL/ARCTIC WHITE
E031 EFFEKTOR GREEN/ARCTIC WHITE
A031 EFFEKTOR TURQUOISE/ARCTIC WHITE

WALLABY 4.1
ND-YA11W20U

SIZES: ONE SIZE



B036 BLACK/CHARCOAL
T024 GERMANY
T076 AUSTRIA
T021 SWITZERLAND
T068 ITALIA
T019 POLAND
T027 CHINA
T028 RUSSIA
T026 NORWAY

EFFEKTOR 4.0 SPYKER
EF-BW00W19U

SIZES: T1 T2 T3 T4



B011 OPAL BLACK/EFFEKTOR GREEN
B011 OPAL BLACK/EFFEKTOR GREEN

FENNEC 4.0 CAP WITH VISOR
FE-YC52S20U

SIZES: 1 2



G051 ANTHRACITE/SILVER

FENNEC 4.0 HEADBAND WITH VISOR
FE-YH52S20U

SIZES: 1 2



G051 ANTHRACITE/SILVER

NOTES

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HEADBAND 4.0
ND-YH27W19U

SIZES: 1 2



G087 CHARCOAL/PEARL GREY
P041 FLAMINGO PINK/ARCTIC WHITE
A209 BLUESTONE/DOLOMITE GREY
Y001 PHYTON YELLOW/ARCTIC WHITE
B036 BLACK/CHARCOAL

BONDEAR CAP 4.0
ND-YC29W19U

SIZES: 1 2



B036 BLACK/CHARCOAL

HELMET CAP 4.0
ND-YC26W19U

SIZES: 1 2



B036 BLACK/CHARCOAL

HIGH HEADBAND 4.0
ND-YH26W19U

SIZES: 1 2



B036 BLACK/CHARCOAL

SOMA CAP LIGHT 4.0
ND-YC25W19U

SIZES: 1 2



B036 BLACK/CHARCOAL

STORMCAP EYE 4.0
ND-YC27W19U

SIZES: 1 2



B036 BLACK/CHARCOAL

STORMCAP FACE 4.0
ND-YC28W19U

SIZES: 1 2



B036 BLACK/CHARCOAL

NECKWARMER 4.0
ND-YA27W19U

SIZES: 1 2



G087 CHARCOAL/PEARL GREY

NOTES

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X
X-BIONIC®

-  SWISS ENGINEERED
-  CRAFTED IN ITALY

version 1.0 / 2020

turn sweat into energy®
WINTER SPORTS

100% RESEARCH, DEVELOPMENT, DESIGN  COMMUNICATION DONE IN SWITZERLAND

COMPLIMENTARIES



COMPLEMENTARIES

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

3D BIONIC® SPHERE SYSTEM WITH ThermoSyphon® Technology

Cools you when you sweat.
Warms when you're cold.



DURING ACTIVITY

Cools when you sweat



DURING RECOVERY

Warms when you are cold

In the body, varying amounts of heat are produced in different areas, with that from the chest and back being particularly high. This is because of the need to protect internal organs. The 3D Bionic Sphere® System with ThermoSyphon® Technology leaves a thin film of moisture on the skin without the body sensing wetness. Sweat Traps® then transport excess sweat, allowing it to evaporate, then dispose of it via thermal dynamics. What remains is just a comfortable, thin, cooling layer of moisture. Of course: no sweat, no cooling. In freezing temperatures, the entire system of channels functions as insulation during both the rest and recovery phases. In this way, you avoid the risk of over-chilling during your activity. Only when your body begins to build up body heat and sweat does the cooling function start. No sweat means the insulating effect takes over.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR



red dot award 2018 winner



37°C CCR TECHNOLOGY

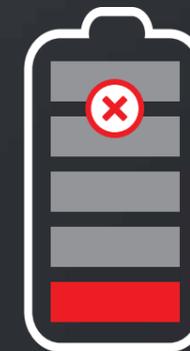
Better performance at the right temperature.

"Endurance athletes use up to 97% of their energy in extreme cases just to maintain their optimal body core temperature of 37°C. That leaves only 3% for performance."

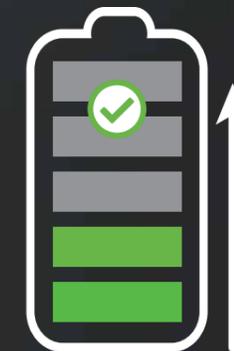
Dr. Ückert, Dortmund University.

Energy consumption needed to maintain 37°C body core temperature:

An overheated or under-cooled body is not efficient. That's why it is always working to maintain an optimal body core temperature of 37°C. Depending on the weather, in extreme cold or heat, this effort can use enormous amounts of energy.



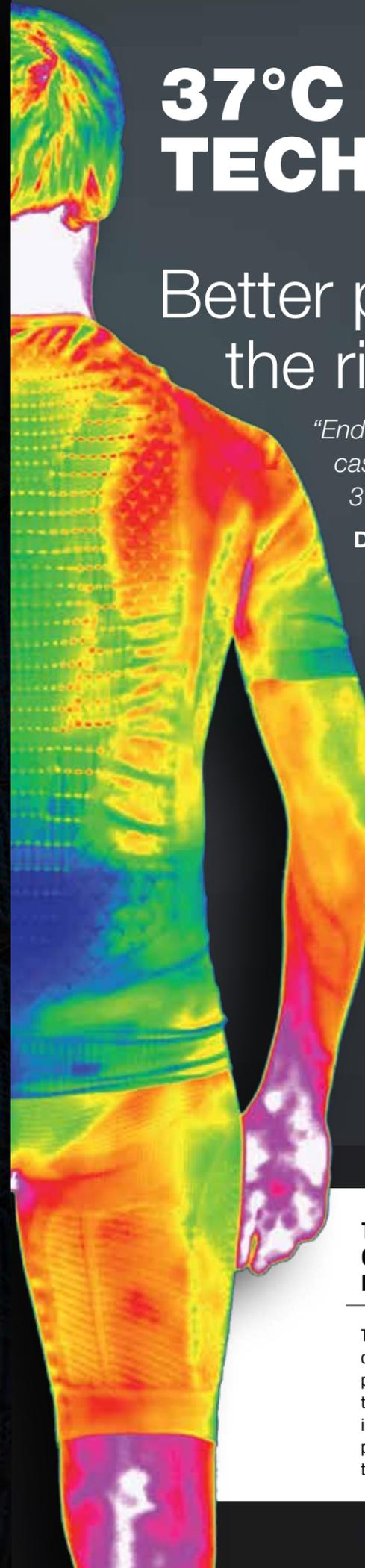
Usable power for your performance without energy-saving technology.



More usable power for your performance with energy-saving technology from X-BIONIC®.

THE 37°C CCR-TECHNOLOGY, SO YOUR OPPONENTS DO ALL THE SHIVERING. NOT YOUR BODY.

The thermal image illustrates this: humans produce different degrees of warmth on different parts of their bodies. The body reacts to temperature variations with changes in energy use that can drain performance ability. Heat illness and hyperthermia are extreme conditions just like hypothermia that the body guards against. The 37°C CCR-Technology developed by X-Technology® supports the body in its effort to maintain the body core temperature at a point where we feel quite comfortable using precisely controlled heat dissipation without the risk of chilling. We achieve the optimal body core temperature of 37°C with our patented technologies.



X-BIONIC®
ENERGY ACCUMULATOR®
PATRIOT EDITION
RADIATOR®
APANI MERINO®
INVENT®
ENERGIZER®
JACKETS
COMPLIMENTARY

1 3D BIONIC SPHERE® SYSTEM

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

2 EVAPORATION SURFACE EXPANDER®

Due to the use of a split fibre, the evaporation surface area is enhanced enormously.

3 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

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H-DRY TECHNOLOGY

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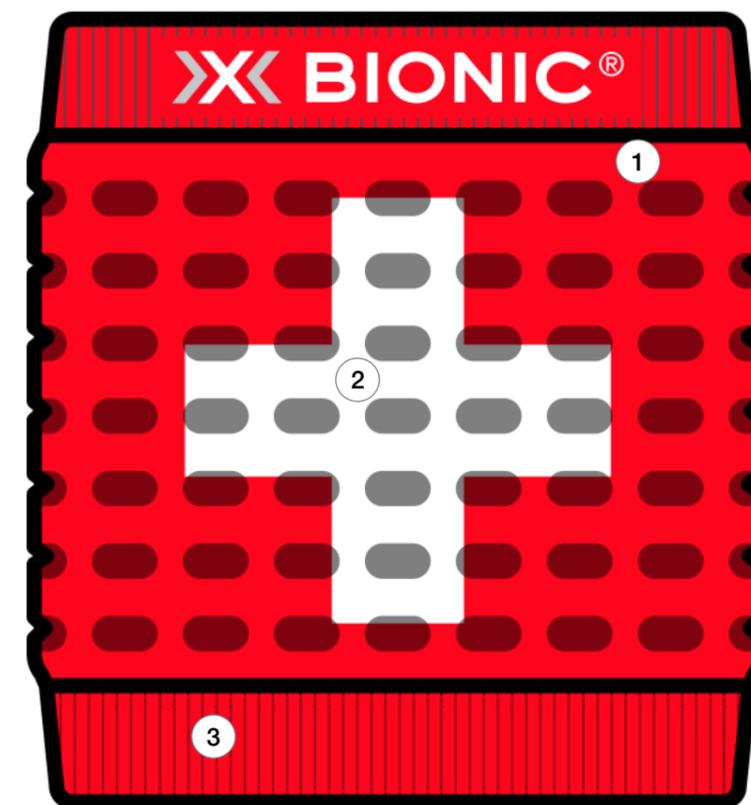
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HIGHTECH DOWN TO THE SMALLEST ATOM
Inhibits bacterial growth and prevents unpleasant odour.

COMPLEMENTARIES

WALLABY 4.1

ND-YA11W20U

COMPOSITION
98% Polyamide (Microlon)
2% Elastane



WALLABY TECHNOLOGY

The Wallaby is our inspiration. Evaporative cooling is provided by frequent licking of its underarms. That's how it cools its blood and, thus, its entire body. Scientific studies prove that the human body is at its performance-best at 37 °C. X-BIONIC® uses your sweat for cooling and turns it into energy



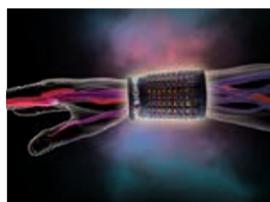
1. PUT IT ON

Pull the X-BIONIC® Wallaby pulse cooler over your wrist and arrange the 3D Bionic Sphere® System directly over the pulse. This will optimise the effect of the cooling and guarantees that it performs correctly into energy



2. CHARGE IT UP

During exercise, the climatizing channels will be soaked with sweat. Due to the enlarged surface area, this leads to great evaporative cooling. To enhance the cooling, just wipe the Wallaby across your forehead.



3. COOL OFF

Due to the process of evaporation, the blood is cooled directly under the surface of the skin. The cooled blood then flows back through the body, also cooling it down, much the same way as a car's coolant does. You'll feel fresher and more powerful.

WOMEN WOMEN WOMEN

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

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JACKETS

COMPLIMENTARY

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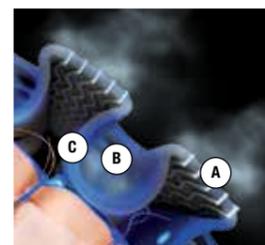
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DURING ACTIVITY



A Evaporation Surface Expander®

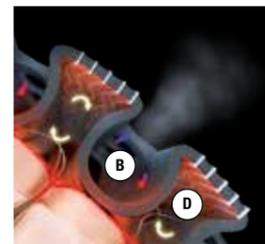
Evaporation across a large surface to process excess moisture.

B OuterAirChannel

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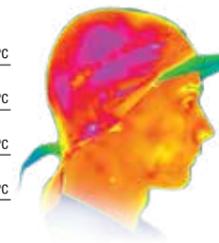
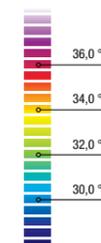
Scientific illustration



FENNEC® 4.0 CAP WITH VISOR

FE-YC52S20U

COMPOSITION
TBD



THERMOSCAN

This thermal image proves how X-BIONIC® actively manages the body's climate.



XITANIT®: REFLECTS RADIATED HEAT

The revolutionary high performance material Xitanit® can reflect warmth.



SKIN NODOR®: HIGHTECH DOWN TO THE SMALLEST ATOM

Inhibits bacterial growth and prevents unpleasant odour.

COMPLEMENTARIES

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37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C. The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

3D BIONIC SPHERE® SYSTEM

Leaves residual moisture on the skin that the body does not interpret as dampness. We have no sensors for sweat. We can only perceive sweat mechanically once drops form and begin to trickle down. Only at that point do we register «wet». Sweat Traps® absorb this moisture before it is felt, drawing it away to be evaporated and disposing of it through thermal dynamics. Only a thin film of moisture remains on the skin. Cooling is of course not possible without moisture. Why? No perspiration film – No cooling.

SWEAT HELPS SAVE ENERGY

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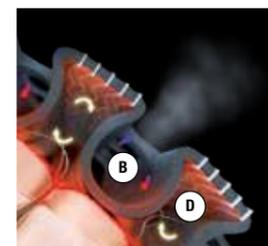
DURING ACTIVITY



A Evaporation Surface Expander®
Evaporation across a large surface to process excess moisture.

B OuterAirChannel
Excess moisture is continuously replaced by the subsequent flow of fresh air.

C Sweat Traps®
Transfer excess moisture.



B OuterAirChannel
During recovery, the cooling-down process is interrupted by the absence of sweat.

D InnerAirChannel
Warm air is stored inside.

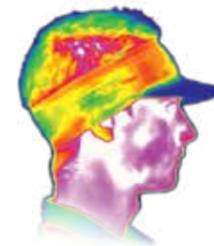
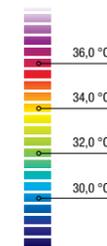
Scientific illustration



FENNEC® 4.0 HEADBAND WITH VISOR

FE-YH52S20U

COMPOSITION
TBD



THERMOSCAN

This thermal image proves how X-BIONIC® actively manages the body's climate.



XITANIT®: REFLECTS RADIATED HEAT

The revolutionary high performance material Xitanit® can reflect warmth.



SKIN NODOR®: HIGHTECH DOWN TO THE SMALLEST ATOM

Inhibits bacterial growth and prevents unpleasant odour.

WOMEN

1 3D BIONIC SPHERE® SYSTEM ON THE FOREHEAD

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research. The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

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Enlarged for more cooling power and exactly positioned to prevent dripping and to cool more effectively.

Patented in 18 countries: AT, BG, CH, CZ, DE, DK, ES, FI, FR, GB, IT, LU, NL, PT, SE, SI, SK, TR

3 AKTIV-BUND®

The highly elastic Aktiv-Bund provides a secure fit and support without constricting or impeding movement.

RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

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XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

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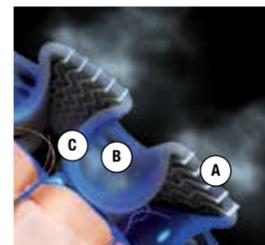
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DURING ACTIVITY



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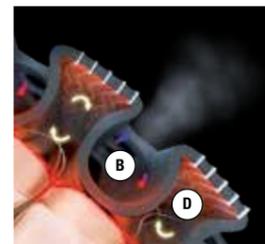
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C Sweat Traps®

Transfer excess moisture.



B OuterAirChannel

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D InnerAirChannel

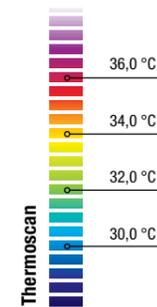
Warm air is stored inside.

Scientific illustration



SKIN NODOR®: HIGHTECH DOWN TO THE SMALLEST ATOM

Inhibits bacterial growth and prevents unpleasant odour.



COMPLEMENTARIES

HEADBAND 4.0

ND-YH27W19U

COMPOSITION
92% Polyamide
6% Elastane
2% Polypropylen

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLEMENTARY

WOMEN
MEN
WOMEN
MEN

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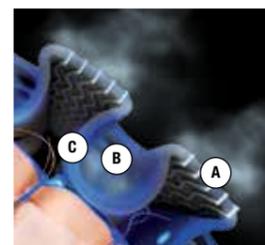
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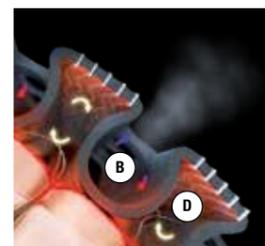
DURING ACTIVITY



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B OuterAirChannel
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D InnerAirChannel
Warm air is stored inside.

Scientific illustration



COMPLEMENTARIES

HIGH HEADBAND 4.0

ND-YH26W19U

COMPOSITION
90% Polyamide
6% Elastane
4% Polypropylen



SKIN NODOR®:
HIGHTECH DOWN TO THE SMALLEST ATOM
Inhibits bacterial growth and prevents unpleasant odour.

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLEMENTARY

WOMEN
WOMEN

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2 EARCOMP ZONE®

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SWEAT TRAPS®

3 Trap perspiration before you start to feel it. A channel system that absorbs and optimally evaporates sweat to prevent unpleasant moisture and sweat gutters. Finely knitted material releases excessive heat. When you stop sweating, the crinkled inner structure provides optimum insulation. Perfect temperature equalisation – green areas.

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RETINA®

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XX-CROSS® TECHNOLOGY

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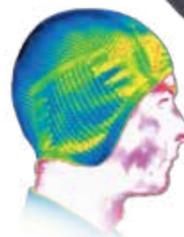
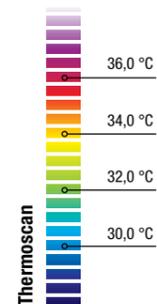
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EARCOMP ZONE

The ears are particularly sensitive to the cold due to their exposed position. The innovative EarComp Zone provides optimal protection. The 3D-honeycomb structure stores warm air around your ears and guarantees optimal insulation without impairing hearing. Made of a soft, supple material suitable for any head shape. Also provides a perfect fit even when wearing headphones or earbuds.



Interior



SKIN NODOR®:
HIGHTECH DOWN TO THE SMALLEST ATOM
Inhibits bacterial growth and prevents unpleasant odour.

COMPLEMENTARIES

BONDEAR CAP 4.0

ND-YC29W19U

COMPOSITION
90% Polyamide
6% Elastane
4% Polypropylen

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

WOMEN

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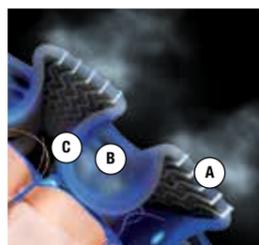
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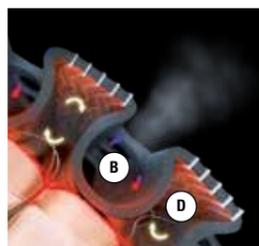
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DURING ACTIVITY



- A Evaporation Surface Expander®**
Evaporation across a large surface to process excess moisture.
- B OuterAirChannel**
Excess moisture is continuously replaced by the subsequent flow of fresh air.
- C Sweat Traps®**
Transfer excess moisture.



- B OuterAirChannel**
During recovery, the cooling-down process is interrupted by the absence of sweat.
- D InnerAirChannel**
Warm air is stored inside.

Scientific illustration



SKIN NODOR®: HIGHTECH DOWN TO THE SMALLEST ATOM

Inhibits bacterial growth and prevents unpleasant odour.

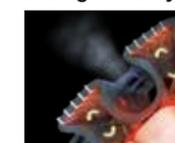


During activity



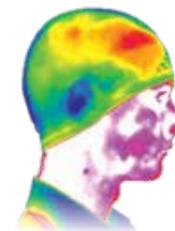
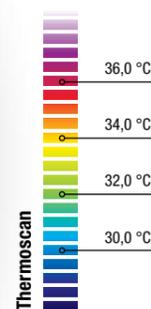
Scientific illustration

During recovery



3D BIONIC SPHERE® SYSTEM ON THE FOREHEAD

A labyrinth of chambers and channels that store warm air, insulating against the cold. Sweat Traps® trap excess perspiration and quickly move it to the outside.



COMPLEMENTARIES

HELMET CAP 4.0

ND-YC26W19U

COMPOSITION
92% Polyamide
6% Elastane
2% Polypropylen

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLEMENTARY

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XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

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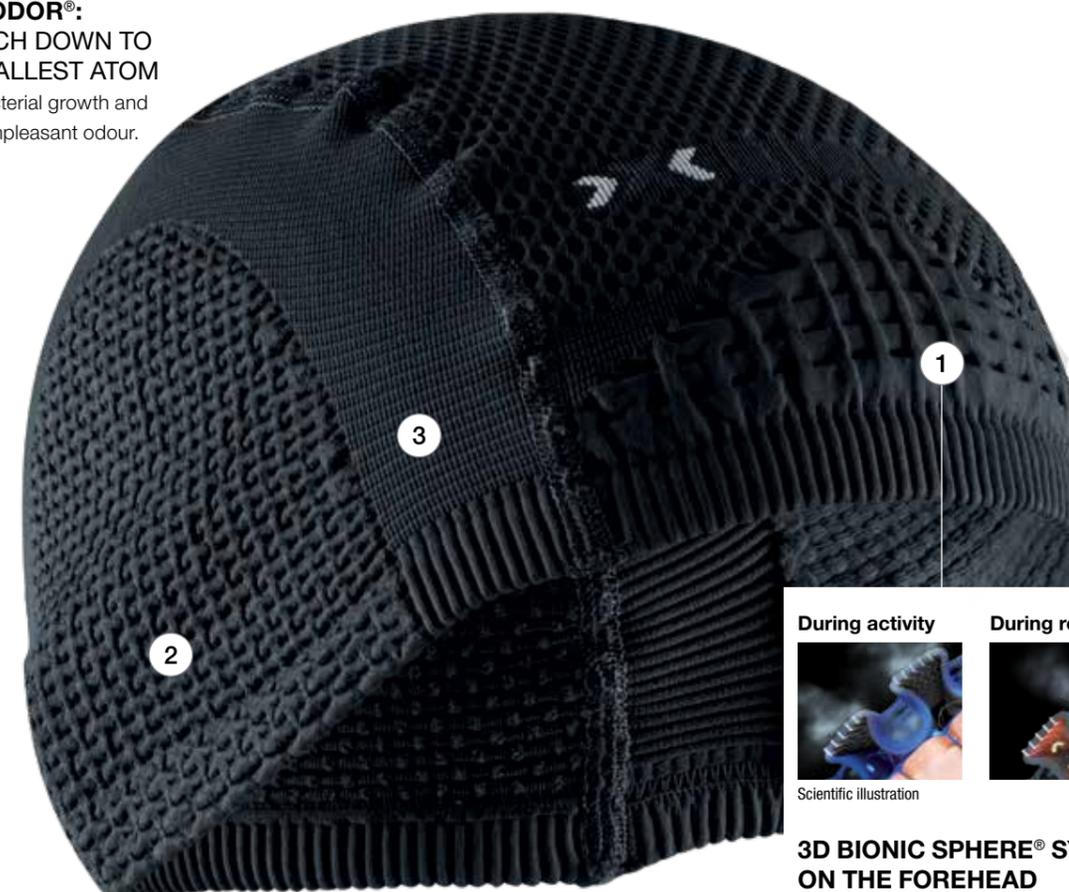
Inhibits bacterial growth and prevents unpleasant odour.

COMPLEMENTARIES

SOMA CAP LIGHT 4.0

ND-YC25W19U

COMPOSITION
90% Polyamide
6% Elastane
4% Polypropylen



During activity



Scientific illustration

During recovery



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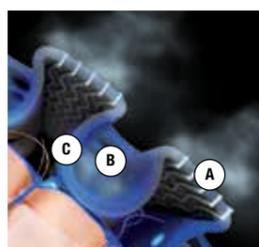
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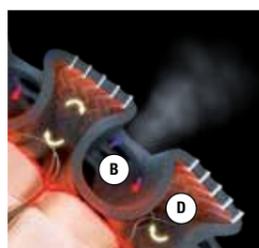
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DURING ACTIVITY

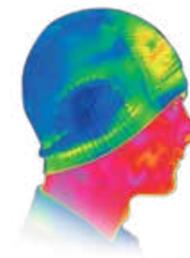
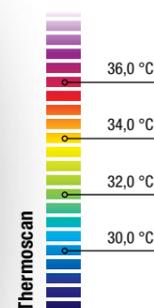


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Scientific illustration



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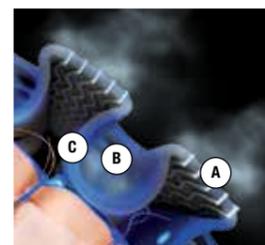
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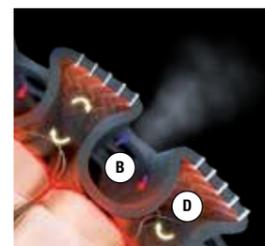
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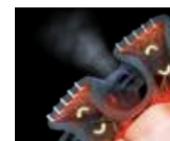
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During activity



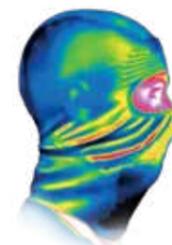
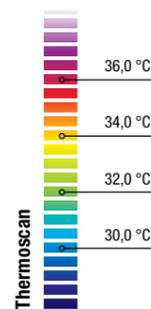
Scientific illustration

During recovery



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COMPLEMENTARIES

STORMCAP EYE 4.0

ND-YC27W19U

COMPOSITION
90% Polyamide
6% Elastane
4% Polypropylen



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

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RETINA®

Ultra-high definition quality for maximum functional density, precise functional zones and efficient functional transmission.

INTELLIYARNS®

IntelliYarns® are protected X-BIONIC® 4.0 high-tech yarns with special functions. Depending on their composition, they accelerate moisture transport, dampen shocks, increase the cooling effect or stop bacteria and odours.

XX-CROSS® TECHNOLOGY

H-DRY TECHNOLOGY

SKIN NODOR®

High-tech down to the smallest molecule. Reduces bacterial growth - reduces odour formation. The skin-neutral ions released by Skin Nodor® are active against bacteria formation and thus reduce odour formation.

37 °C CCR-TECHNOLOGY

X-BIONIC® technology reacts precisely to support the body in maintaining its optimal temperature for athletic performance of 37°C.

The proof is in its controlled release of warmth without the risk of chilling. You save valuable energy for your performance.

3D BIONIC SPHERE® SYSTEM

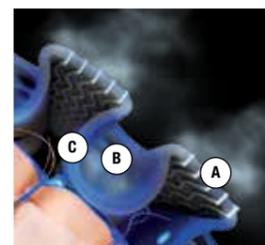
Leaves residual moisture on the skin that the body does not interpret as dampness. We have no sensors for sweat. We can only perceive sweat mechanically once drops form and begin to trickle down. Only at that point do we register «wet». Sweat Traps® absorb this moisture before it is felt, drawing it away to be evaporated and disposing of it through thermal dynamics. Only a thin film of moisture remains on the skin. Cooling is of course not possible without moisture.

Why? No perspiration film – No cooling.

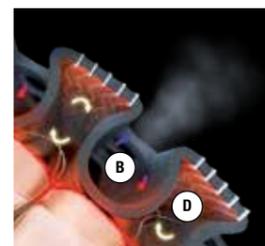
SWEAT HELPS SAVE ENERGY

Traditional functional undergarments siphon off all sweat, leading the body to continue to increase its sweat production. The result is loss of water, minerals and salt. The patented and unique 3D Bionic Sphere® System retains important resources to keep you performing better. Less energy is expended in regulating body heat, leaving you more energy reserves for your training.

DURING ACTIVITY



- A Evaporation Surface Expander®**
Evaporation across a large surface to process excess moisture.
- B OuterAirChannel**
Excess moisture is continuously replaced by the subsequent flow of fresh air.
- C Sweat Traps®**
Transfer excess moisture.



- B OuterAirChannel**
During recovery, the cooling-down process is interrupted by the absence of sweat.
- D InnerAirChannel**
Warm air is stored inside.

Scientific illustration



SKIN NODOR®: HIGHTECH DOWN TO THE SMALLEST ATOM

Inhibits bacterial growth and prevents unpleasant odour.

During activity



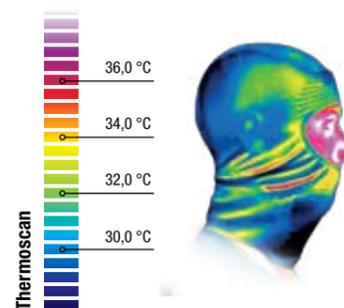
Scientific illustration

During recovery



3D BIONIC SPHERE® SYSTEM ON THE FOREHEAD

A labyrinth of chambers and channels that store warm air, insulating against the cold. Sweat Traps® trap excess perspiration and quickly move it to the outside.



COMPLEMENTARIES

STORMCAP FACE 4.0

ND-YC28W19U

COMPOSITION
90% Polyamide
6% Elastane
4% Polypropylen



X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

COMPLIMENTARY

1 3D BIONIC SPHERE® SYSTEM WITH THERMOSYPHON® TECHNOLOGY ON THE BACK

Greater cooling performance thanks to the 30% larger surface, which is anatomically positioned based on scientific research.

The 3D Bionic Sphere® System cools when you sweat and warms when you are cold, while preventing cool down or overheating.

Patented in 17 countries: AT, CH, CZ, DE, DK, ES, FR, GB, IT, NL, NO, PL, RO, SE, SI, SK, TR

2 ISO-PAD ON THE NOSE

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads are placed on the nose.

3 ISO-PAD ON THE CHEEKS

Targeted insulation of individual body parts against ambient coldness can prevent the body from getting cold. This is why ISO-Pads are placed on the cheeks.

4 ZERO INSULATION ZONE

Excess warmth can scape easily due to the very thin knitting structure, avoiding air condensation inside the garment.

5 AIR-CONDITIONING CHANNEL®

The Air-Conditioning Channel® dissipates heat at a controlled rate. The fine knitted structure immediately ducts moisture away.

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3D BIONIC SPHERE® SYSTEM

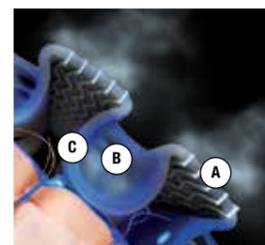
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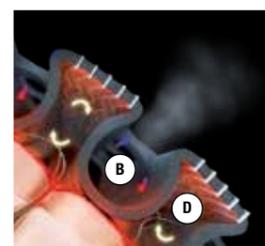
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Scientific illustration



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HIGHTECH DOWN TO THE SMALLEST ATOM
Inhibits bacterial growth and prevents unpleasant odour.

COMPLEMENTARIES

NECKWARMER 4.0

ND-YA27W19U

COMPOSITION
77% Polyamide
18% Elastane
5% Polypropylen

X-BIONIC®

ENERGY ACCUMULATOR®

PATRIOT EDITION

RADIATOR®

APANI MERINO®

INVENT®

ENERGIZER®

JACKETS

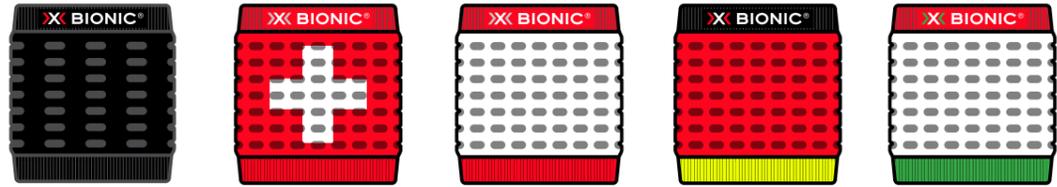
COMPLIMENTARY

WOMEN WOMEN WOMEN

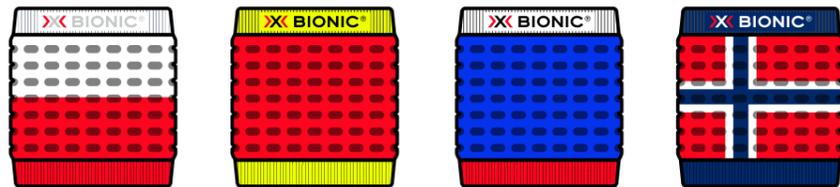
WALLABY 4.0
ND-YA11W20U

WP: €15,00 | RP: €30,00

SIZES: ONE SIZE



B036 BLACK/CHARCOAL - CARRY OVER -
T021 SWITZERLAND - ON DEMAND ONLY -
T076 AUSTRIA - ON DEMAND ONLY -
T024 GERMANY - ON DEMAND ONLY -
T068 ITALIA - ON DEMAND ONLY -



T019 POLAND - ON DEMAND ONLY -
T027 CHINA - ON DEMAND ONLY -
T028 RUSSIA - ON DEMAND ONLY -
T026 NORWAY - ON DEMAND ONLY -

FENNEC 4.0 CAP WITH VISOR

FE-YC52S20U

WP: €40,00 | RP: €80,00

SIZES: 1 2



G051 ANTHRACITE/SILVER - CARRY OVER -

NOTES

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HEADBAND 4.0
ND-YH27W19U

WP: €11,50 | RP: €23,00

SIZES: 1 2



G087 CHARCOAL/PEARL GREY - CARRY OVER -
P041 FLAMINGO PINK/ARCTIC WHITE - CARRY OVER -
A209 BLUESTONE/DOLOMITE GREY - CARRY OVER -
Y001 PHYTON YELLOW/ARCTIC WHITE - CARRY OVER -
B036 BLACK/CHARCOAL - CARRY OVER -

BONDEAR CAP 4.0

ND-YC29W19U

WP: €22,50 | RP: €45,00

SIZES: 1 2



B036 BLACK/CHARCOAL - CARRY OVER -

HELMET CAP 4.0

ND-YC26W19U

WP: €17,50 | RP: €35,00

SIZES: 1 2



B036 BLACK/CHARCOAL - CARRY OVER -

HIGH HEADBAND 4.0
ND-YH26W19U

WP: €14,50 | RP: €29,00

SIZES: 1 2



B036 BLACK/CHARCOAL - CARRY OVER -

SOMA CAP LIGHT 4.0

ND-YC25W19U

WP: €19,50 | RP: €39,00

SIZES: 1 2



B036 BLACK/CHARCOAL - CARRY OVER -

STORMCAP EYE 4.0

ND-YC27W19U

WP: €32,50 | RP: €65,00

SIZES: 1 2



B036 BLACK/CHARCOAL - CARRY OVER -

NOTES

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STORMCAP FACE 4.0

ND-YC28W19U

WP: €32,50 | RP: €65,00

SIZES: 1 2



B036 BLACK/CHARCOAL - CARRY OVER -

NECKWARMER 4.0

ND-YA27W19U

WP: €22,50 | RP: €45,00

SIZES: 1 2



G087 CHARCOAL/PEARL GREY - CARRY OVER -

NOTES

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