

3,552 DAYS OF RESEARCH & DEVELOPMENT.

For more than 10 years we have been working on the X-BIONIC® Energy Accumulator®. Each year it has performed even better. Each year the trophies we won for it piled up - today we have 15 internationally renowned design prizes, not to mention innumerable top test results. This makes us very proud, but it doesn't put an end to our ambition to make it even better. With the Energy Accumulator® EVO it's now come down to precision work. We aren't changing the entire concept, but we just hammer away on each small detail. If you optimise the single features, you end up improving the entire system. It's not about an entire revolution anymore. When it comes to functional apparel, that was already accomplished by the Energy Accumulator®. This is now all about evolution.

In performance sports, victory and defeat are often decided by the hundredth of a second. Every seam has to be perfect and has to support the athlete optimally in every situation. That was the premise for the development and the set goal for our team. To accomplish that, we have in the end nearly totally changed the Energy Accumulator®: newly defined shoulder zones, broader compression areas, stronger joint segments, newly conceptualized channeling, ...



INTERNATIONALLY AWARDED:



2011 GOOD DESIGN AWARD
X-BIONIC® Energy Accumulator® EVO
 Internationally acclaimed by the Chicago Athenaeum with the world's oldest and most highly sought-after award, for the most innovative and best-designed product:

Technology | Material | Sustainability | Creativity



2010 X-BIONIC® Energy Accumulator® EVO
 „A winner, acclaimed for Innovation, High Quality and Functionality at the world's largest technology, sport- and lifestyle contest, where the manufacturer was honoured for its advancements in quality.“



2012 X-BIONIC® Energy Accumulator® EVO
 The highest official German reward, for outstanding achievements in design and for the best products. The jury judges, among other things, the degree of innovation, technical functions and product aesthetics.

\ DECISION LAYER \

ENERGY ACCUMULATOR® EVO SHIRT

3D BIONIC SPHERE® SYSTEM IN THE CHEST AREA ENLARGED TO 220%

The 3D Bionic Sphere® System at the chest with its larger dimensions is designed for high-intensity physical exertion and provides for cooling.

scale: 2.5:1

② ISO-SHOULDER 50% HIGHER THERMAL STORE

Garments often drape heavily on the shoulders. Add wind and the weight of rain, and garments for the upper body frequently sit snugly – an open door for cold. ISO-Shoulder forms an insulating layer to keep penetrating cold at bay. The gentle wavelike structure of the material allows channels to remain open so they continue to provide space to store warmed air. Outstanding protection against chilling upper body garments.

③ AIR-CONDITIONING CHANNEL® 30% MORE FRESH AIR

The Air-Conditioning Channel® in the chest area is part of the climate channel system. Physiological studies have shown that the chest area is an optimal zone for quick and effective venting and cooling. Exchanging fresh air over a system of channels cools the chest area without spreading a “cold” sensation throughout the body. The constant air movement along the Air-Conditioning Channel® also effectively draws moisture away from the sweat zones.

④ AIRCOMPLEX-ZONE AT THE UPPER ABDOMEN 144 CM² MORE INSULATION

At the solar plexus, directly under the 12th thoracic vertebrae, important nerve fibres receive signals that influence one’s entire well-being. The Energy Accumulator® Evo protects this sensitive area 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.

X-IMPACT TECHNOLOGY

Better performance via regulated compression, which reduces muscles oscillations, supports muscles and joints, as well as optimises the transport of nutrients.

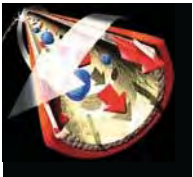
Reduced muscle vibration



Muscle activity creates initially unnoticeable high-frequency vibrations. If the muscles tire, however, the

frequency of the oscillations becomes slower, and the muscle vibrations become perceptible. The muscles have no power. Compression stabilizes muscles from the outset. You save energy resources. Ideal situation for high performance.

Improved muscle uptake of oxygen and nutrients



Compression has a stabilizing effect on the blood vessels. Support of the blood vessels reduces the load on the cardiovascular

system and improves the delivery of oxygen and nutrients. Muscles and organs are supplied more rapidly with performance-enhancing oxygen and nutrients thanks to the more rapid recirculation of blood back through the heart.



SKIN NODOR®: HIGH TECH DOWN TO THE SMALLEST ATOM

Inhibit bacteria buildup and minimize odour-causing microorganisms.

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

\ DECISION LAYER \

ENERGY ACCUMULATOR® EVO SHIRT



5

5 3D BIONIC SPHERE® SYSTEM ON THE BACK

The 3D Bionic Sphere® System on the back provides cooling without the risk of overcooling.

6 AIR GUIDE® 1.25 MM WIDER

Air Guides® work like spacers and borders along the Air-Conditioning Channel®. The Air-Conditioning Channel® must be combined with the Air Guides® for winter use. The Air Guides® maintain space between heavy winter upper body garments and a pack, whilst ensuring a highly effective quantity and flow of fresh air through the Air-Conditioning Channel®.

7 3D BIONIC SPHERE® SYSTEM AT THE TAILBONE

The sweat of the lower back area is conducted through the 3D Bionic Sphere® System to the tailbone for evaporation. 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.

8 EXPANSION RIBS® 6 ADDITIONAL CHAMBERS

The Expansion Ribs® that form the elbow cushion work similarly to the knee area, but are finer. The knitted fabric folds apart based on the accordion principle, insuring that winter cold doesn't cool down the elbows. Even when sharply bent, the insulating effect is maintained through warm air stored in the interior. The flexibility of the Expansion Ribs® and the elasticity of the yarn allow a frictionless freedom of movement. Even sports with continuous arm movement, such as Nordic Walking, produce no symptoms of musculature exhaustion from the movement of the Expansion-Ribs.

8



THE LARGEST USABLE AREA IN ACTIVE TESTING – THE OPTIMAL OUTFIT.

„The Energy Accumulator® has very good moisture regulation.“

Tour, 11/2010



BEST IN COMPARISON TESTS.

„High-end functional baselayer for competitive athletes.“

Wanderlust, 01/2012



wintersporters.nl

BEST IN COMPARISON TESTS.

«...not a casual shirt, recommended for the active athlete and testwinner for us»

wintersporters.nl, 04/2012

7