

HYBRID

THE PATENTED WATERPROOF HYBRID CONCEPT

Pat Pend PCT/SE 2008/050287 EP 08724234.3 US 12/530,508 SE 0700719-8

THE PATENTED DIVING EVOLUTION

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The Challenge

The perfect drysuit, does it exist?

Diver's can have vastly different experiences on a dive although the location, conditions and drysuits are identical.

It was a great dive, EXCEPT...

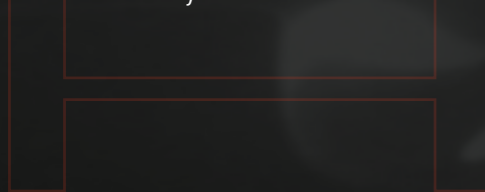
- I was cold in my torso and legs.
- I feel uncomfortable from the thick undergarments.
- The neck seal on my suit chokes me.
- I have problems purging trapped air from my undergarment and suit.
- I overheat before the dive starts.
- With all the bulk I could hardly zip up.
- By the end of the dive I am cold and wet.

The Challenge: How could we solve all these drysuit problems?

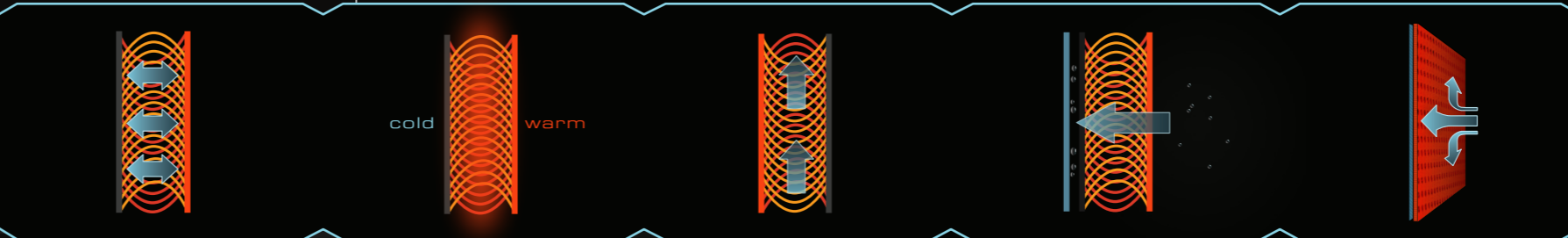
We spent 3 years analyzing the issues, sourcing materials and intensely testing prototypes until we got it right.

The result is the D1 Hybrid, the world's first and only Insulated Constant Volume drysuit.

Revolutionary is an Understatement.



Hybrid Concept Advantages



Constant Distance

The 3-D Mesh Inner Lining is constructed like a bed mattress. The two outer layers are separated by coiled nylon springs. It creates a Constant Insulation Volume C.I.V.

Insulation

It's all a matter of distance and keeping the insulating air between you and the cold water. The Patented 3-D Mesh Inner Lining does the job and works like a thermos.

Ventilation

The Patented 3-D Mesh Inner Lining provides unrestricted airflow and does not trap air. It makes buoyancy control easy to master and controls the inner climate of the suit.

Condensation

The constant distance and unrestricted airflow provided by the 3-D Mesh Inner Lining will keep the condensed moisture away from your body and on the outer shell. As a result, you will be dry and warm. The lining does not absorb any liquid and will stay dry.

Pressure Distribution

The 3-D Mesh Inner Lining has exceptional pressure resistance. It provides active pressure distribution and keeps the distance constant to the outer shell. This virtually eliminates suit squeeze.

Integrated Silicone Seals



The world's first suit with Integrated Silicone Seals (I.S.S.). No more aborted dives due to seal problems. You can quickly change the seals anytime. Features great ozone, chemical and UV resistance paired with a high comfort factor due to the flexibility and design.



Additional Features

- Warmer - the insulation is built in.
- Allows a slimmer fitting suit cut while keeping full insulation.
- The lining is fitted and zipped into the suit.
- Your body moves inside the lining comfortably.
- No obstacles when donning.
- No overheating on land.
- No trapped air - better buoyancy control.
- No damp underwear when finished diving.
- No contact with the condensed moisture on the outer shell.
- In every aspect, more comfortable than added bulky traditional underwear.



Dress Code: Light!

Due to the excellent insulation of the 3-D Mesh Inner Lining you only need a thin base layer, like the BodyTec, even in coldest waters.

D1 Hybrid Suit Features



The Silicone NeckSeal

The D1 features a unique neck-ring and silicone seal. Greater comfort and ozone, chemical and UV resistance.



Warm Neck

The unique warmneck solution from Waterproof with water-drain valves and molded velcro tabs.



Integrated Silicone Seal I.S.S.

The D1 features the new Silicone Seal System and new oval wrist ring quick connector.



High Visibility

Reflective logo labels and tabs.



3D-Mesh Inner Lining

The integrated patented 3-D inner lining includes suspenders.



Double Waistbands

Elastic waistbands in both front and back for streamlined fit. Can be easily replaced as necessary.



Dual Convertible Power Pockets

Allow easy selection of huge capacity or slim profile based upon your need. Double D-Rings.



Anatomical Design

All critical parts like arms, legs and torso have been anatomically designed to enhance movement.



Anatomical Kevlar Reinforced Boot

Angled for the best mix of durability and performance. Molded Fin Strap Anchor.



Kevlar Knee Pads

Kevlar knee reinforcement made of Schoeller © "Keprotec" Military Graded Kevlar.

Test Diving in Antarctica



Waterproof Founder and Head Designer Göran Ehlme joined Waterproof Expeditions Elysium Expedition to Antarctica during spring 2010 as an Expedition Leader.

Göran took the opportunity to conduct final test dives of the D1 Hybrid drysuit in the Antarctic waters. The picture shows Göran in his D1 Hybrid standing at the shore of Elephant Island. Truly, few divers in the world get even close to water temperatures you find in these extreme conditions (-1.8°C, 2° F) but for Waterproof's test dive team the chilly facts achieved here is an important piece of the total picture.

Alternately, the team conducted dives in Egypt and the Red Sea, to research pre-dive overheating complications. They also conducted long saturation dives with deco stops up to 4 hours.

The main mission for those tests were to measure the effect built up moisture can affect the inner suit climate and the impact this has on diver comfort and well-being over extended periods of time.

The revolutionary new D1 Hybrid performed beyond expectations in each environment and is ready now for your next adventure.

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