

Kwark Heated Undersuit

User Manual Dear User, before use, it is necessary to read this manual and follow its recommendations. This will ensure the safe operation of our heating vest during diving and significantly extend its trouble-free service life. This product is intended for people diving in dry suits in cold waters. It is suitable for use in a humid environment but should not be submerged.

When using the heated vest, the following points should be remembered:

- **When planning a dive, keep in mind that using a heating vest affects blood saturation with breathing gases. Plan your dives conservatively.**
- **Always plan your dives so that the capacity of the battery used is sufficient to power the heating unit for the entire duration of the dive.**

Do not use internal batteries for power supply. The vest is designed to be powered by an external 12V battery. Due to its very good thermal insulation and high heating power, we recommend using a battery with adjustable power. The heating vest should not be worn directly on the skin. We recommend wearing thermal underwear underneath to wick moisture away from the body. We strongly advise against wearing cotton underwear or any other fabric that retains water. To avoid heatstroke or skin burns, do not use batteries with a voltage higher than 12V, and adjust the power or turn off the unit when the external temperature rises.

The vest can be machine washed using gentle soap-based detergents. Before washing, the heating elements must be removed. To do this, turn the vest inside out, unscrew two screws from each of the protective cages for the connection boxes located in the internal pockets on the abdomen, disconnect the plugs, remove the heating panels from the back, sleeves, and thighs, and pull their cables out of the tunnels. Then thread the power plug inside through the pass-through and remove the box together with the chest panel, and also remove the glove power cable from the tunnels.

After washing, the vest can be spun and dried on a hanger. After washing, the panels should be placed in their proper positions without folds.

In the case of the vest getting wet, do not twist or spin it before removing the heating panels.

To ensure long-term use of the vest, handle the heating panels gently. Keep them away from sharp objects. A cut in the heating cable will cause a malfunction. Panels should not be bent or folded.

Special attention should be paid when packing and transporting. The vest should be laid flat with the sleeves arranged along the vest so that the panels in the sleeves are not bent. Roll it up starting from the bottom of the legs, and place the roll into the provided bag. When packing other luggage, ensure that the packed vest is not crushed by anything heavy.

To ensure maximum safety, the condition of the plug and power cable should be checked before use, as well as whether the panels are bent. If one side does not heat despite the battery being connected, the fuse should be checked. They are located in waterproof housings in internal pockets on the front. This installation uses glass fuses with a fast-acting characteristic, size 5 x 20 mm, and a 5A rating.

The heating system must not be modified or repaired. Any interference will result in the loss of warranty.

We do not know the effect of the magnetic field generated by the vest's heating element on a pacemaker, so its use is not recommended for those who have one.