



# **BASIC INFORMATION**

## Manufacturer:

Santi Sp. z o. o. ul. Tadeusza Wendy 7/9 WTC Expo Area PL 81-341 Gdynia Poland

Type:

Santi heated products range

#### **Certificates:**

See respective product page



Thank you for choosing Santi Heating system. These products provide better comfort for your diving.

Enjoy your diving, Extend your limits and Stay Dry!

Please read the following manual carefully before using any product from the range and keep it for future reference. The usage of diving equipment by untrained person may cause health damage and even life danger. Along with an increase of depth, the thickness of the insulating material may decrease due to hydrostatic pressure. Effect of decreased thermal insulation may occur with increased depth. The product should not be cleaned with solvents or strong detergents. If any information or warning needs further explanation, we are always available to help you with any question, so please do not hesitate to contact our customer service department:

Santi Sp. z o. o. ul. Tadeusza Wendy 7/9 WTC Expo Area PL 81-341 Gdynia, Poland Tel.: +48 58 678 50 10 Fax: +48 58 678 50 09 www.santidiving.com

### Thermal protection

The user is responsible for own thermal protection. Isolation depends on the right undersuit and thermal underwear selection. Lack of right thermal protection might cause thermoregulatory disorders. The user must be aware of the risks of hyperthermia and hypothermia.

#### Thermal isolation and depth

Thermal isolation is reduced due to hydrostatic pressure, which is increasing with depth. The user must be aware that thermal capacity of the undersuit might be reduced.

#### Allergic reaction

Every synthetic material might cause allergic reactions. Before using the undersuit or vest, please be aware of the potential risk of experiencing allergy towards the materials used in the construction of the product.

#### Fitting

Correct fitting of the heated underwear gives much more comfort and satisfaction during use. Fitting should be carried out when wearing suitable underwear and an appropriate undersuit. Size should be based on the information in the following table. Please follow the size chart respective for each specific product.

#### **WARMING VESTS** XS S M L XL XXL XXXL height chest 93-96 95-100 100-105 118-123 waist hips 85-89 90-94 95-99 100-105 118-123

The underwear should be chosen according to the Santi size chart above.

# **HEATED VEST USAGE MANUAL**

## Product type

Diving Vest with electric heating EU Norm (CE): PN-EN 14058:2007 PN- FN 60945:2004

# DIVING EQUIPMENT

## Product specification |

The Heating vest is designed as a part of the complex heating system consisting of a vest, thermovalve/connector and an external battery canister. This configuration allows a diver to wear the vest under the drysuit without additional valve and dangers associated with internal batteries. The heating vest outer shell is made from abrasion and tear resistant Pertex, inside the Thinsulate layer and micro fleece layer inside. The Heating vest is designed to be worn over thin form fitting thermal wear and under the drysuit underwear. In this configuration the majority of the heat output is transferred directly on diver's torso and the not on thick drysuit underwear. The breathable fabric allows the vest to heat your torso and vapor the sweat, if any.

#### **Technical info**

- 55W power
- 12V supply
- heating time: battery 10 Ah /about 120 minutes of heating; battery 20 Ah/about 240 minutes of heating when any other sources are not combined.
- made of Thinsulate 200 gr
- made of breathable fabric
- keeps you warm even when the heating is off
- evenly distributed heating wiring that allows for freedom of movements
- warms up the whole body corpus (front and back)
- extra pocket for the wire
- waterproof plug, compatible with other Santi products
- male and female plug

# **WARNINGS**

- Read and follow the manual before use.
- Use only in dry-suit while diving.
- Use with appropriate battery source only and never over 12 V!
- Charge with supplied charger only!
- Protect the plug before washing (washing machine allowed).
- Do not use directly against skin.
- The vest must be switched off when out of the water.
- Switch off immediately when drysuit is flooded or when malfunction is suspected.
- Do not disassemble or modify the vest and cable.



## Do not combine with other heating sources if they are not compatible with the product.

- Be careful not to cross the cables against each other, make sure they are not banded or folded while using.
   The need to well stretched under your suit.
- Before each dive inspect thoroughly all the electrical cords and connections. If you notice any mechanical break or cut, do not use the product for diving, as this might cause serious injury. Once you notice any damage to the cables, contact service for repair or replacement of the broken parts.

The product is equipped with the necessary wiring to allow the connection to the external power supply through calve connector or thermovalve.

#### Instruction for use

- Put the vest on your thermal under wear and not directly on the naked body. Wear it under your undersuit.
- Put the cable of the vest outside of your undersuit and connect it to a connector or thermovalve wire that will provide power from your battery.
- Make sure you note and follow all the warnings stated above.



# **GENERAL INFORMATION**

## Washing instruction (where applicable)

Machine-wash in cold water at the temp. of 30 deg. C. Hand washing is not recommended since it is difficult to work the water into and through the vest to flush away dirt and it is also difficult to remove the water by hand without damaging the insulation and cables inside. The vest should be washed separately to avoid crowding in the machine and to maximize the cleaning action.

Warning: Spinning is not recommended. Cover and protect the plug while washing.

To dry, lay the product flat or tumble dry using a delicate cycle (very low temperature) or air only.

# **WARRANTY**

Limited Warranty for Santi heating system products.

With this limited warranty certificate Santi declares that the product is free from defects in fabrics, components and craftsmanship at the time of the purchase. Please read all warnings and safety instructions before use and keep the original sales proof. This must be shown when repair should be covered by warranty. The product needs to be claimed by the dealer where it was purchased. Santi heated vest comes with 12-month guarantee against defects in materials and workmanship. The warranty does not cover damage due to: abuse, neglect, improper usage, lack of maintenance or normal wear and tear, especially mechanical cut of the cables, any change or modification made by the user or by the third parties, use of incompatible accessories that are not part of Santi product range. Santi shall not be responsible in any case for incidental or consequential damages (without any limitation whatsoever to one or more persons) resulting from non-fulfillment of the obligations arising from this warranty when it comes to Santi products. If any defect covered by this limited warranty appears within 12 months from the date of purchase Santi will repair, exchange parts or replace the defective product. Warranty repair can only be done at Santi HQ service department.

Any changes or technical intrusion results in warranty loss. This warranty is valid only if the enclosed warranty form is fully filled out with following information: product name, name of the authorized dealer, product serial number product purchase date. Serial number is stated on the inside label. Santi reserves the right not to carry out repairs under warranty if any original information is removed or modified on the product after the original date of purchase of the product from a dealer.

#### Procedure of forwarding the claims

- To forward a claim covered by this warranty, the buyer has to directly notify the dealer where the product was purchased with regards to the defect, presenting at the same time the defective product, a copy of the sales receipt and the Warranty registration form, duly filled out as instructed above.
- Prior to contacting the dealer, we recommend that you read carefully the user manual enclosed with the product. After 12 months from the date of purchase, this limited warranty is void for all effects and purposes.
- Repairs or maintenance under warranty do not extend the period of the warranty itself. Therefore, in case the product or
  one of its components is replaced, this does not initiate a new warranty period, as the purchase date of the original
  product shall be taken into account for warranty purposes.
- Santi reserves at any time the right to modify without advance notice the product characteristics or functions
- Only for repairs or replacement of electric components, in the event that Santi proceeds to repairing or replacing the
  product, said product shall enjoy a warranty period equal to the residual portion of the original warranty or ninety (90)
  days from the repair date (the longer period being considered).
- This warranty does not affect the consumers rights provided by the law or the rights to which the buyer is entitled and
  which are expressly provided for by Directive 1999/44/CE.
- The cost of shipping to Santi Service department is on the dealer/client side. After warranty repair confirmation all other
  costs are on Santi side.
- Warranty card available on other page.

#### Attention!

Diving is potentially hazardous sport. Before using any diving equipment you should be properly trained in the use of the equipment by a recognized club or organization.

Before each dive inspect thoroughly all the electrical cords and cables and make that they are not damaged, cut or broken in any place. If you notice any mechanical break or cut, do not use the product for diving, as this might cause serious problems and injury. Once you notice any damage to the cables, contact Santi service department for repair or replacement of the broken parts as soon as possible.



# **WARRANTY CARD**



Please read and acknowledge general warranty information!

PRODUCT TYPE:

**SERIAL NUMBER:** 

DATE OF PURCHASE:

STAMP& SIGNATURE OF SELLER:

Santi Sp. z o. o. Tadeusza Wendy 7/9 St. 81-341 Gdynia, Poland WTC Expo Area

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