

### Be aware of:

- The clothing needs to be worn closed at all times. Do also use the adjustments at wrists, ankles and waist when provided.
- In order to be protected in an efficient way, the user shall wear a complete suit with the same level of protection (a two piece suit consisting of a coverall or jacket and a pair of trousers or bib and braces). The garments (e.g. jacket) can be sold separately.
- Please see to sufficient overlap between jackets and trousers (20 cm in all positions).
- These garments do not offer protection for the head, hands and feet. Make sure you use the adequate PPE for these parts of your body.
- Soiling with flammable products will change the characteristics of the fabrics used in the garment. Regular and thorough cleaning guarantees the efficiency of the garments (see care instructions).
- Damage of the clothing (for instance holes or tears) will most probably diminish the protection level of the garments. Regular checks on damage or ageing of the clothing and if necessary repairing or replacing the garments will make sure your protection is maintained.
- In case repairs or alterations (e.g. adding badges) are needed, these need to be done by trained persons and only with original materials foreseen by the manufacturer and taking into account the design limitations of the applied standards.
- The application of protective finishes (such as waxes or fluor-carbon finishes) can have a negative influence on the level of protection.
- If the garment has extra layers at the knees, this is only to enhance the strength of the garment or to enhance the comfort of the wearer. This is by no means a protection against knee injuries.
- This garment is suitable for wearing during an entire working day in cold conditions and contains no toxic, carcinogenic, mutagenic, or other substances that can affect the health or hygiene of the user adversely. No allergic reactions due to skin contact with this garment are known.
- The garments can be recycled through the appropriate channels in your country.

### Special warnings explosive atmospheres:

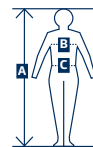
- To ensure good conductivity, contact between the skin of the wearer and the clothing is necessary, therefore the garments need to be closed as much as possible at the collar, wrists and ankles. The clothing has been designed with the necessary possibilities to ensure this contact, so do use them correctly.
- To ensure discharge of electrostatic charges, the garments need to be earthed properly. Contact between the conductive garments and

conductive footwear will certainly enhance this discharge. In any case, a correct earthing (maximum resistance 10-8 Ohm) is essential.

- At the design stage the manufacturer ensured that all metallic parts are covered during the normal use – this to prevent the generation of sparks. Do make sure that while wearing this clothing all metallic parts of accessories (for instance the buckle of a belt) are covered at all times. Also make sure that these protective garments completely cover your underlying clothing at all times (e.g. when bending over).
- Whilst wearing these garments in an ATEX environment, do not attach accessories or equipment to the outside of the garments unless they fulfill the ATEX requirements for equipment (EX materials and equipment). Make sure to use in this type of environments only explosion safe equipment. For instance your mobile phone is best kept outside this zone or at least switched off. Do not attach any materials that contain metal to the outside of the garments.
- When working in oxygen enriched environments, please consult your safety responsible as these garments are not suitable for the risks related to this type of environment.
- Under no circumstances you should take this type of clothing off in an explosive atmosphere or whilst handling flammable or explosive substances.
- Soiling will change the characteristics of the fabrics used in the garment.

### Size indication

All sizes indicated in this pictogram are measured on the person, these differ from the measurements of the garments.



**A** = Total height (cm)

**B** = Chest (cm) – is indicated

for a jacket or a coverall

**C** = Waist (cm) – is indicated

for coveralls and trousers

### Reference

ScanTriple HV 001, ScanTriple HV 002 and ScanTriple HV 003 is the general reference for clothing produced according to the described standards. You will also find a specific product reference in the label.

### Care and maintenance instructions

- The materials used in the garments are suitable for domestic washing (see care label).
- The frequency of cleaning should be based upon the degree of soiling and intensity of usage.
- To avoid damage to the clothing, it is recommended to close the garments during the washing process
- Washing should be carried out with limited mechanical action to avoid damage of reflective material.
- Make sure to rinse the garments thoroughly after washing to make sure that all residues of detergents are removed. Do not use fabric softeners.
- Check the garments for damage before each use.
- Repairs have to be done by trained personnel using only original materials.
- Do not store the clothing in solvents, detergents, disinfecting agents or stain removers.
- Do not store the clothing when soiled.
- Tests in laboratory have shown that the garments fulfill the requirements for flame spread from the EN ISO 14116 standard after 5 wash cycles according the indicated procedure.

	Maximum washing temperature is 40° C / 104° F. Maximum amount of cleaning cycles for reflective tape: 50 <b>Note:</b> washing at lower temperatures will improve the service life of the garment. The service life of the garment will be influenced by the type and dosage of the detergents used. Reduce your footprint wash less, save water and energy.
	Cannot be bleached with bleach or other chlorine based agents
	No tumble drying
	No ironing
	No dry cleaning possible

Scandia is not liable for damages, in any form whatsoever, as a result of injudicious use or abuse or as a result of not acting according to these instructions. For the design and certification of the clothing the following notified body was involved: Centexbel, Technologiepark 70, B-9052 Zwijnaarde (identification number: N.B. 0493).

Made with 100% recycled paper

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# SCANTRIPLE HV

Thermal Off-Shore  
Outerwear | Multi-Risk



## User's Instruction



www.scandiagear.com

ROTTERDAM SINGAPORE HOUSTON DUBAI

SINCE 1974

MARITIME OUTFITTERS

Scandia

# SCANTRIPLE HV

## Information for the wearer

The garments referred to in this manual comply with the essential requirements of the EU Regulation 2016/425 for Personal Protective Equipment (PPE). The harmonized standards EN ISO 13688 (2013), EN ISO 14116 (2015), EN 342 (2017), EN 343 (2003 + A1:2007), EN 1149-5 (2008) and EN ISO 20471 (2013 + A1:2016) were used for certification of this garment.

## Reference

Winter jacket : **ScanTriple HV 001**  
 Winter trousers: **ScanTriple HV 002**  
 Winter overall : **ScanTriple HV 003**

The EU Declaration of Conformity (DOC) can be found at the Scandia Gear website ([www.scandiegear.com](http://www.scandiegear.com)), under the Scandia product name ScanTriple HV 001, ScanTriple HV 002 or ScanTriple HV 003 and through the link "Declaration of Conformity".

**Read these instructions carefully prior to first use and store them for future consultation.**

## Application

The garment is designed to protect against rain and wet weather conditions.

## EN343:2019

Explanation of the pictogram and classification. The clothing is designed to protect against rain or wet weather conditions.



EN 343:2019

### Protective clothing: protection against rain

**3:** protection level for water penetration (4 classes of which 4 is the best performance)

**1:** protection level for water vapour resistance (4 classes – 1 is the lowest)

**R:** optional indication for performance of the raintower test on the full garment. "X" meaning that no testing was done.

As the breathability of the garment is limited (class 1), it is recommended to limit the continuous wearing time. Below table can be used as a guideline:

Recommended maximum continuous wearing time for a complete suit consisting of jacket and trousers without thermal lining				
Temperature of working environment	Class 1 Ret above 40	Class 2 25 < Ret ≤ 40	Class 3 15 < Ret ≤ 25	Class 4 Ret ≤ 15
25 °C	60 min	105 min	180 min	No limit
20 °C	75 min	250 min	No limit	No limit
15 °C	100 min	No limit	No limit	No limit
10 °C	240 min	No limit	No limit	No limit
5°C	No limit	No limit	No limit	No limit

Table valid for medium physiological strain M = 150 W/m<sup>2</sup>, standard man, at 50% relative humidity and wind speed of 0,5 m/s.

## EN ISO 14116:2015



EN ISO 14116:2015  
 Shell: Index 1  
 Lining: Index 3

The clothing complies with EN ISO 14116 (limited flame spread clothing). It is produced with materials which, when in contact with a flame, will not spread the flame as soon as the flame source is taken away. The shell of this specific clothing is classified as index 1, which implies that, when in contact with a flame, a hole can be formed in the material. The lining of this clothing is classified as index 3, being the highest achievable index for limited flame spread.

**Note:** Index 1 material must not be worn in direct skin contact. Index 2 or 3 fabric must be worn underneath.

## EN 1149-5:2018



EN 1149-5:2018  
 EN 1149-1:2006

This clothing complies with EN1149-5:2018. The fabric has been tested and approved against EN1149-1:2006 measurement of surface resistivity. The clothing is designed to allow discharge of static electricity in order to avoid incendiary discharges in an explosive atmosphere that could lead to dangerous situations. The requirements used are not strict enough for oxygen enriched environments. The clothing is NOT designed to protect against main voltages.

## EN ISO 20471:2013+A1:2016

The clothing also complies with EN ISO 20471:2013 +A1:2016. This Standard specifies requirements for High Visibility garments capable of signaling the user's presence visually. This rainwear provides conspicuity of the user in hazardous situations under any light conditions by day (fluorescent material) and under illumination by vehicle headlights in the dark (reflective material). Below pictogram on the garment indicates compliance with EN ISO 20471.



EN ISO 20471:  
 2013+A1:2016

x = Classification of the applied surface of fluorescent and retro reflective material. Classes 1 to 3 (of which class 3 is the highest achievable class)

### Note:

**ScanTriple HV 001 meets class 2**  
**ScanTriple HV 002 meets class 1**  
**ScanTriple HV 003 meets class 3**

**Wearing ScanTriple HV 001 parka and ScanTriple HV 002 trousers together provides class 3 protection.**

EN ISO 20471 classification of fluorescent and retro reflective surface (X):

	Class 1	Class 2	Class 3
Fluorescent material	0,14 m <sup>2</sup>	0,50 m <sup>2</sup>	0,80 m <sup>2</sup>
Reflective tape	0,10 m <sup>2</sup>	0,13 m <sup>2</sup>	0,20 m <sup>2</sup>

**Warning:** The garments should not be covered with non-high visibility garments or accessories (e.g. logo's).

## EN 342:2017



EN 342:2017

### Protective clothing: protection against cold

**Icler:** Insulation value (in M2.K/W) of the single garment or ensemble with standard reference clothing. See table below for wearing times.  
**2:** Classification of the air permeability, see table below.

**WP:** Classified to resistance to water penetration

Resultant effective thermal insulation of clothing (Icler) and ambient temperature conditions for heat balance at different activity levels and durations of exposure.

Insulation Icler (m <sup>2</sup> .K/W)	Wearer's moving activity							
	Light 115 W/m <sup>2</sup>				Medium 170 W/m <sup>2</sup>			
	Air velocity							
	0,4 m/s		3 m/s		0,4 m/s		3 m/s	
	8 h	1 h	8 h	1 h	8 h	1 h	8 h	1 h
0,265	3	-12	9	-3	-12	-28	-2	-16
0,310	-2	-18	6	-8	-18	-36	-7	-22
0,390	-9	-28	0	-16	-29	-49	-16	-33
0,470	-17	-38	-6	-24	-40	-60	-24	-43
0,540	-24	-45	-11	-30	-49	-71	-32	-52
0,620	-31	-55	-17	-38	-60	-84	-40	-61

**Note:** these temperature values are only valid with even distribution of the insulation on the body and with adequate hand-, foot- and headwear and an air velocity between 0,3 m/s and 0,5 m/s. Higher wind speeds will increase the temperatures listed because of wind chill effects.

### Standard underwear B for ensembles consists of:

- Undershirt with long sleeves
- Long underpants
- Socks (up to the knee)
- Bootees
- Thermojacket
- Thermopants
- Knitted gloves
- Balaclava

### Air permeability classes:

AP (mm/s)	Class
100 < AP	1
5 < AP ≤ 100	2
AP ≤ 5	3

**Warning:** Thermal insulation may decrease after any cleansing procedure.

## Ageing

As a result of wearing and washing, the fluorescent fabric might fade in time. Fluorescent colour performance was measured and approved after 5 washings. Laboratory conditions however, are not representative for all praxis situations. In case of doubts about performance related to ageing, please consult your safety officer for further guidance and/or replace the garment.

### Correct product use

Even if you wear good quality protective clothing, you still have to take into account that your safety cannot be guaranteed in any circumstances.