

ACD

When minutes save lives...



INSTRUCTION MANUAL

Airshelter AIR VII



ISO 9001:2008
BUREAU VERITAS
Certification
N° NL007983-1



www.airshelter.com

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1. Changes and/or additions

Change or addition				
Number	Date of notice	Applied by	Date	Initials

2. Content

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3. Safety instructions

Meaning of symbols:

	Warning!	This is the safety alert symbol. When you see this symbol in this manual, look for one of the following signal words and be alert to the potential for personal injury.
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- Read the instruction manual before using the product.
- Follow the directions in this manual.
- Keep this manual near to the product.

ACD Shelter techniek is not responsible for any damages and/or malfunctions, which may be caused by ignoring this instruction manual.

Usage:

- The ground should be flat and clean in order to avoid damages to the shelter and in order to reach maximal stability of the shelter.
- At wind force >3 it is absolutely necessary to use guy-ropes!
- The shelter can be set up in areas with temperature conditions ranging from -30 °C to 50 °C.
- Do not store in moist/wet or dirty condition.
- Do not use candles, matches or any form of open fire in or in the vicinity of the shelter.
- Avoid open fire or shower of sparks in the wind direction of the shelter.
- Pay extra attention whenever using fuel-fired lights or heating systems in the shelter. Preferably use electric systems for light and heating.
- Do not refill fuel-fired lights, heating systems or cooking sources in the shelter.
- Do not keep inflammable fluids in the shelter.
- Sharp objects such as nails, paperclips can cause damage to the shelter. Prevent such objects from falling onto the ground sheet.

Cleaning:

- Use a mild cleaning agent for cleaning the shelter.
- Never use cleaning agents containing solvents (such as white spirit or refined petrol), as these might cause damage to certain parts and toxic fumes may be set free. In addition, using such cleaning agents might cause risk of fire and explosion.

Usage of accessories:

- Use only accessories, which are approved and allowed to use by ACD.
- If other parts are fitted on or in the shelter, ACD cannot be held responsible for the consequences, which in addition to that are not covered by the clauses regarding the warranty and product liability.

4. Product description

Shelter

The Shelter consists of an inflatable airframe, the integrated floor, the cover and two textile doors.

The frame is a 2 chamber-system that is attached to the floor and the cover.

To allow inflation of the tent the chamber is furnished with 2-combined inflation / deflation valves at the outside of the tent. The chambers are also equipped with one pressure relief valve each, which opens in case of overpressure situation.

The combined inflation / deflation valves serve for inflation of the tent by electric blower system, available on request as optional equipment.

Entrances at back and front side can be closed by two textile doors, which are equipped with zippers.

Carrying bag

The carrying bag serves to store the folded shelter for transport.

Handpump

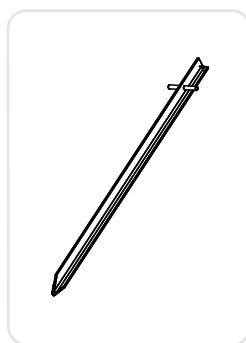
The handpump is a solid synthetic construction and is used to inflate the tent. Volume 5 ltr. / push.

Inflation and deflation system with electric blower (optional)

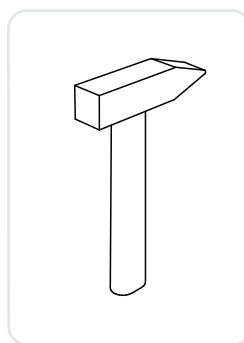
The blower is a combined appliance for pressure and suction service. The tent is inflated within approx. 3 minutes with the blower.

Scope of delivery

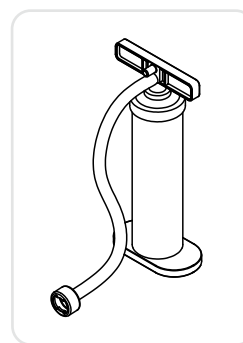
The standard delivery scope is:



Ground pegs



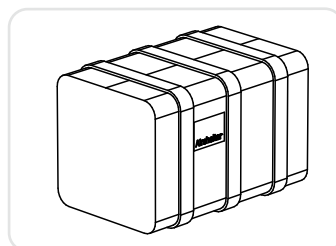
Hammer



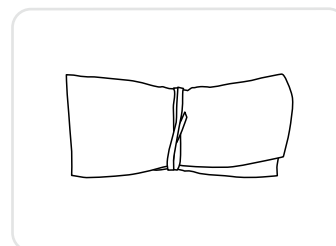
Hand pump



Repair kit



Carrying bag for tent



Carrying bag for accessories

Part	AIR VII AIR200-7
Inflatable frame	1
Cabin cover	1
Carrying bag	1
Repair kit	1
Ground pegs	16
Guy ropes	8
Hammer	1
Hand pump	1

Accessories

Following optional accessories are available:

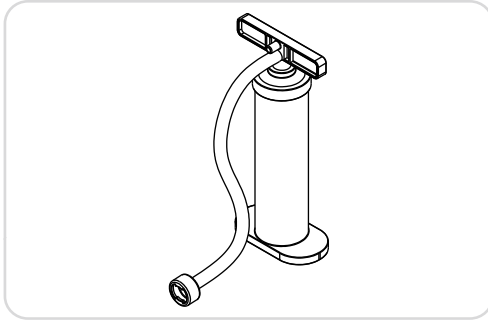
Description	Usage	Article number
Blower K set	Inflation of the air frame	AIR449-S
Waterbelt Set	Belts filled with water for extra anchoring	AIR420A
Window Panel	3 layer (cover, transparent, mosquito net) window	AIR421-C
Detachable Groundsheet	Removable floor instead of fixed, attached with Velcro	AIR415
Connection sheet	Piece to connect two Airshelters	AIR200-C
Lighting set 2x2 x36W	Two 2x36W light fixtures in transport box	AIR600-SET
Heater AIR30L Set	Diesel heating with hoses, thermostat, fuel can, chimney	AIR502-30-L
Inner tent, partition curtain	Extra inner layer for insulation, separation, partition and other purposes	
Integrated shower system	Inner showertent with various division options	AFW114A-3
Deonstrip for MD Airshelter	Shower strip with 4 nozzles, 2 valves to the inner showertent	ZPS114D
Banner set	Banner set	AIR450

Technical data

Type:	Airshelter VII
Art. nr.:	AIR200-7
Dimensions:	600x570x300 cm
Dimensions packed:	120x70x65 cm ²
Area:	34 m ²
Weight:	88 kg
Material:	for maximum durability, the shelter is made entirely out of high-quality materials
Frame:	Airtex200, colour black
Cover:	Airtex165
Ground :	Airtex320-1, colour grey

Hand pump

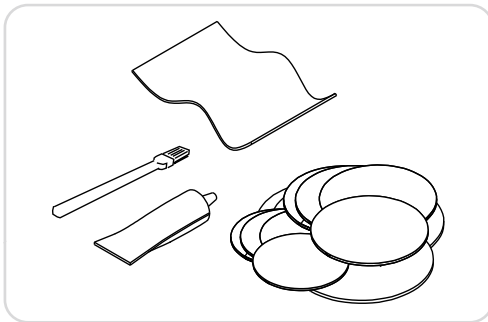
For manual inflating extra air the Airshelter M VII (extra inflating after setting up the Tent).



Qty	1
Width	0.20 m
Length	0.10 m
Height	0.46 m
Weight	1.00 kg
Material	PE (polyethylene) PVC (polyvinylchloride)

Repair Kit

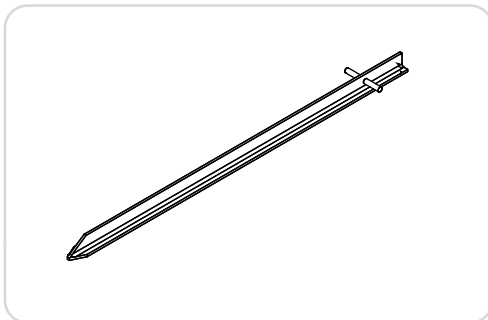
The repair kit is for emergency repairs and contains sandpaper, a brush, glue and several patches in several sizes for repairing the frame. All packed in a slit pocket.



Qty	1
Width	0.20 m
Length	0.18 m
Height	0.05 m
Weight	1.00 kg

Ground pegs

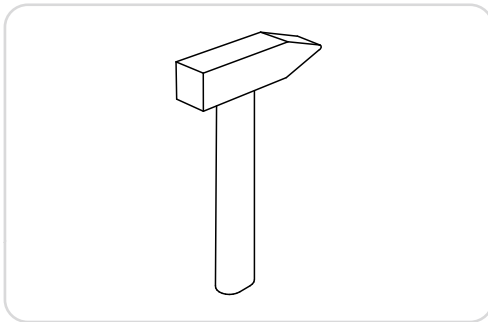
The repair kit is for emergency repairs and contains sandpaper, a brush, glue and several patches in several sizes for repairing the frame. All packed in a slit pocket.



Qty	16
Length	0.50 m
Weight	0.50 kg
Material	galvanised steel

Hammer

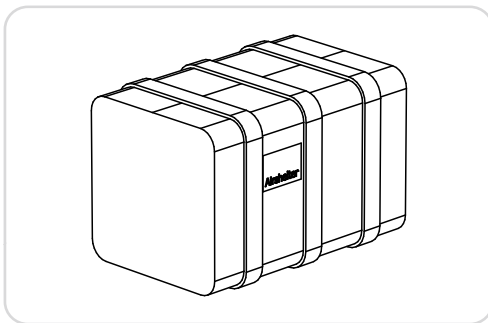
A hammer for batting the ground pegs.



Qty	1
Length	0.40 m
Weight	1.5 kg
Material	steel/wood

Storage and transport bag Airshelter series

The basic Airshelter series are stored in one storage and transport bag with 4 loops attached for handling and lifting.



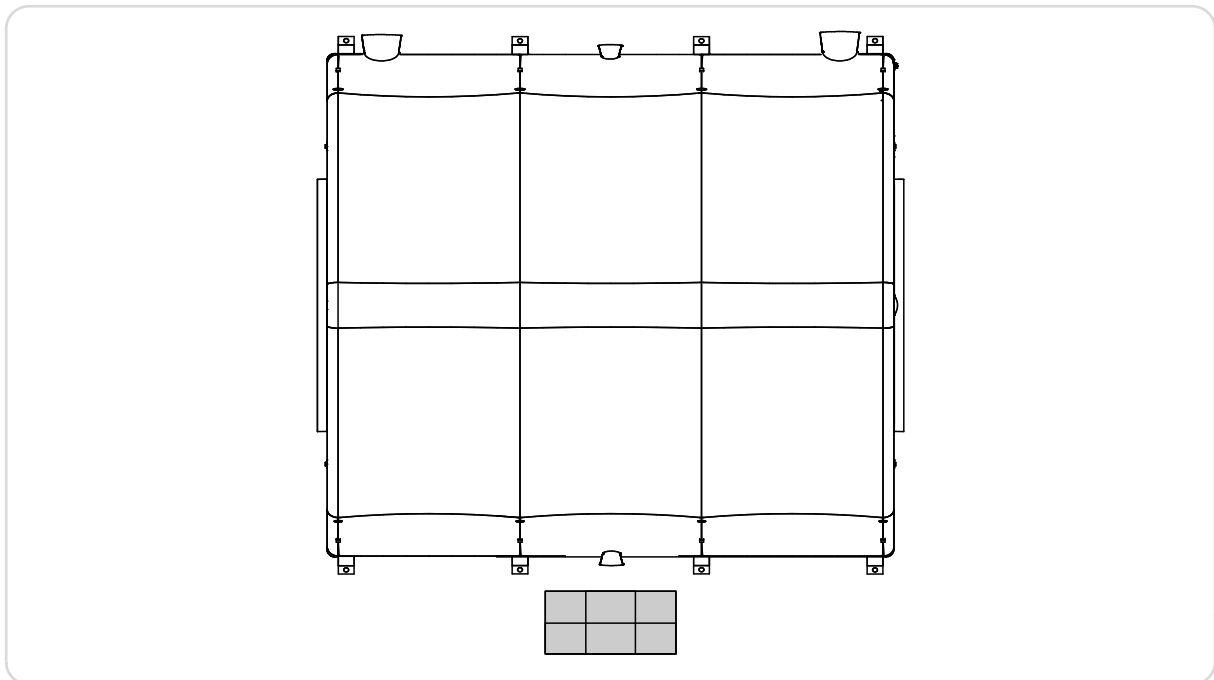
Qty	1
Width	0.90 m
Length	1.15 m
Height	0.60 m
Weight	88 kg including tent
Material	PES (polyester), PVC (polyvinylchloride)

5. Setup

Positioning the tent

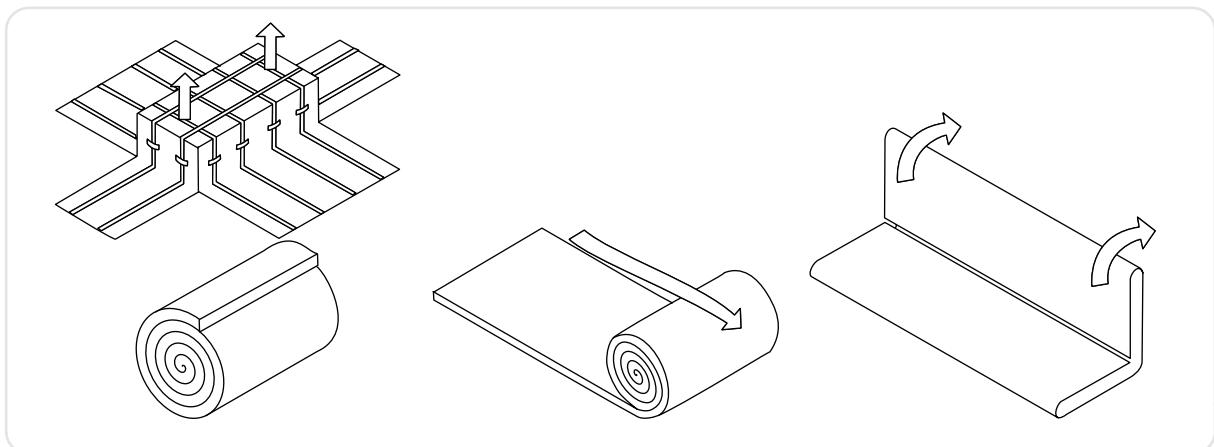
Make sure the Airshelter VII Tent set up area is free from sharp objects and obstacles. The area has to be flat, dry and without bumps and holes. Be aware of the wind speeds and direction.

The Airshelter VII Tent itself requires a space of 6.50 by 5.70 meters. Make sure a free space of at least 0.5 meters around the required tent space is available. When connecting VII Tent, position them no more than 0.60 m apart from each other to fit in the connection sheet.



Placing the transport bag

Put the transport bag(s) in the right position; at the edge-middle of the needed floor space.

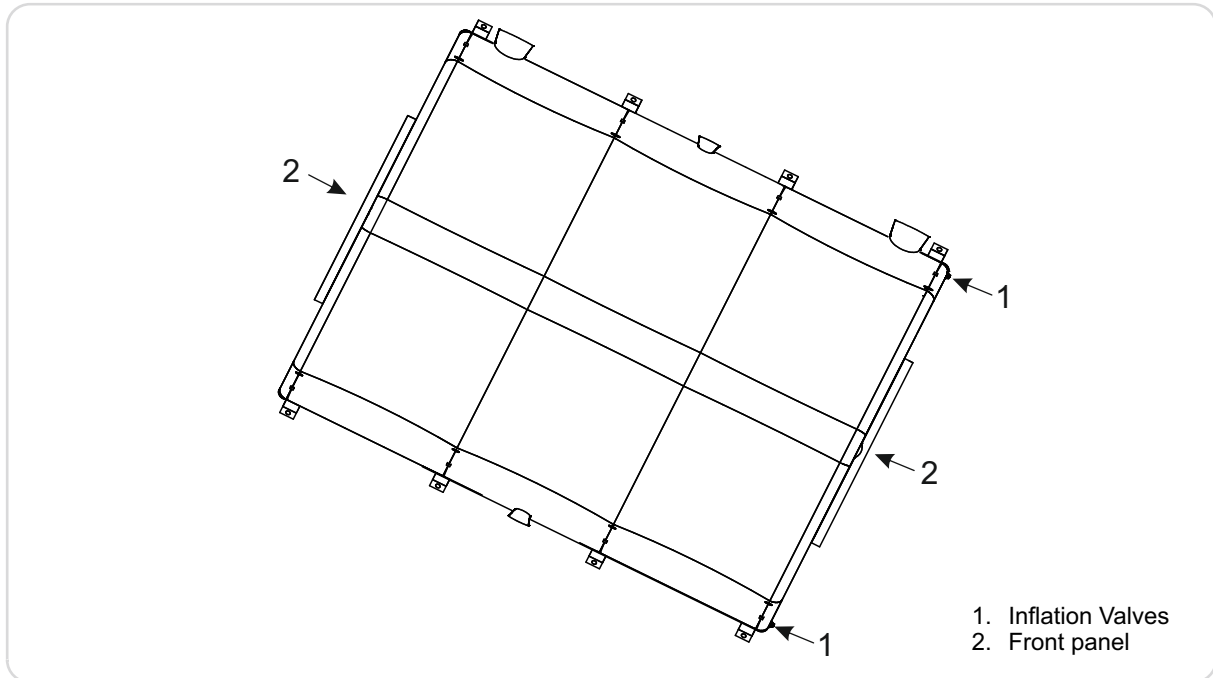


Unpacking, unrolling and unfolding

Open the transport bag, turn it up side down and pull the bag off the Airshelter. Roll out the tent. Unfold the tent to its floor size.



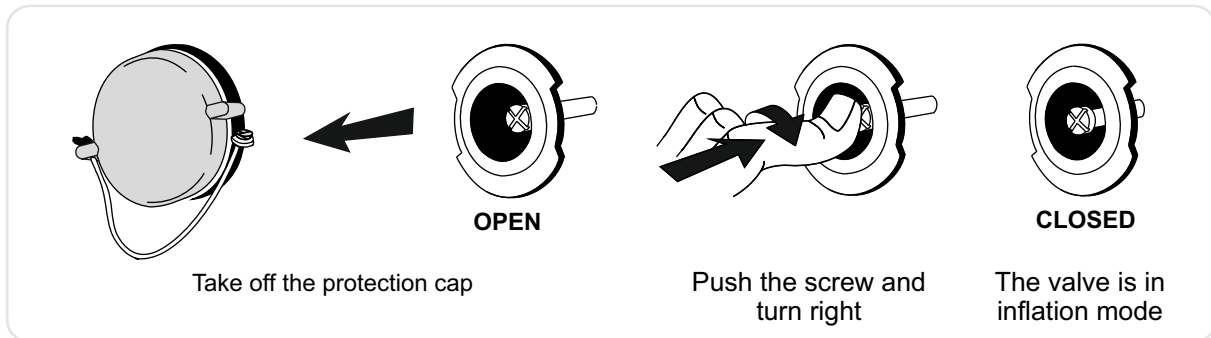
Untangle all guy ropes to prevent from damages to the tent and/or personal injuries.



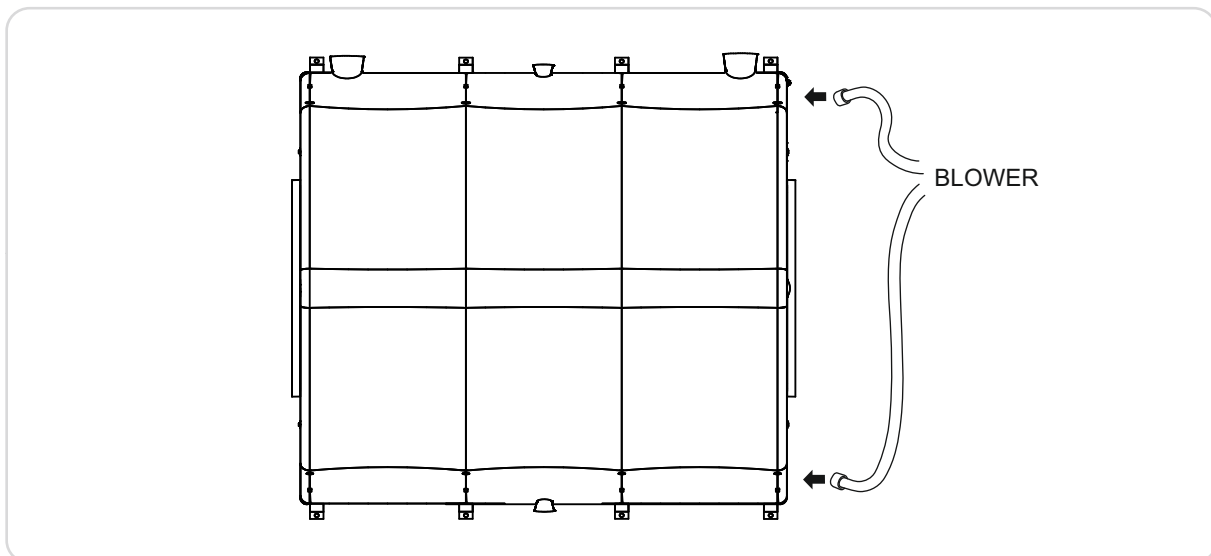
Securing the flaps and locating the inflation valves

Inflating the tent

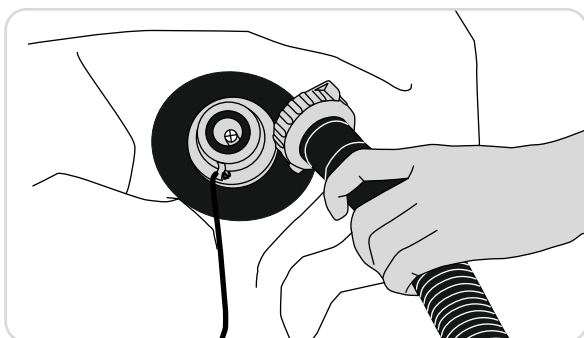
The Airshelter VII has two air chambers with one valves per chamber. To raise the Airshelter evenly as possible, both chambers need to be filled simultaneously.



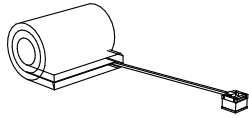
Checking the valves



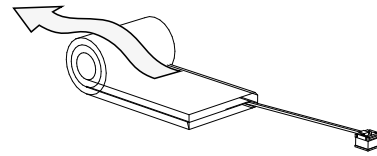
Pull down the protection cap from each inflation/deflation valve. Check if valve is closed; i.e. if it is firmly screwed in. If necessary close the open valve by turning the screw 90° clockwise. Attach the blower to the inflation valves and start inflating. See the manual of the Blower for instructions.



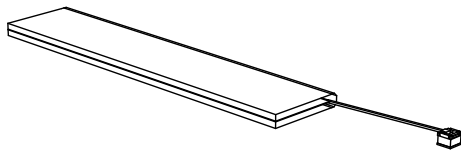
Steps of setting up the tent



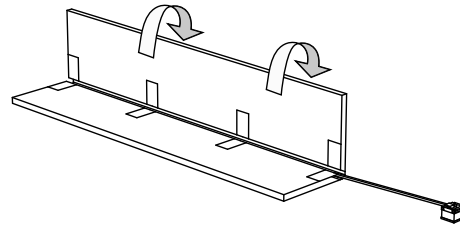
Locating valves, attaching the blower



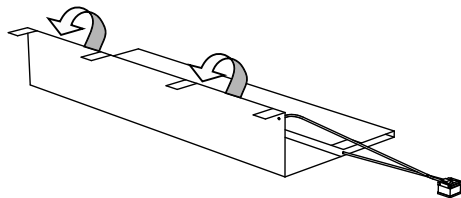
Start inflating



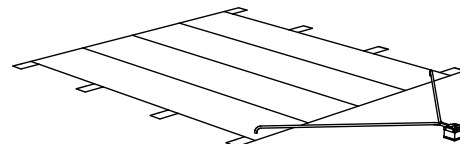
Unrolled airshelter



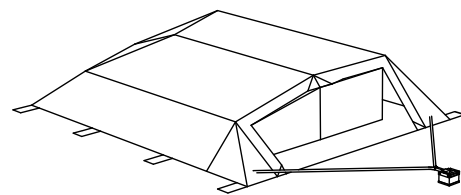
Unfolding airshelter



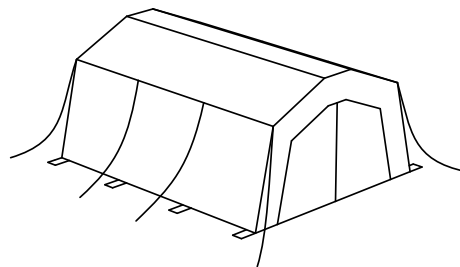
Unfolding airshelter



Completely unfolded



Erecting Airshelter



Fully inflated Airshelter

Using the blower (optional extra)

- a. Prepare the blower according to the operating instructions enclosed with the device.
- b. Connect the hose line of the blower to the inflation/discharge valve and inflate the decontamination shower until working pressure has been reached.

Note: *The working pressure has been reached when air can be heard coming out of the relief valve.*

Inflating with compressed air (optional extra)

Note: *Any 200 bar or 300 bar compressed-air bottles with type-tested DIN valve can be used.*

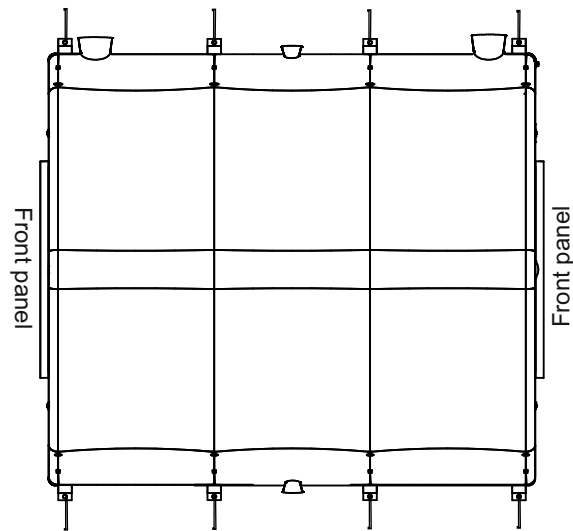
- a. Connect pressure reducer to the compressed-air bottle and tighten by hand.
- b. Connect the pressure hose with the inflation/discharge valve and check that it is seated firmly.
- c. Close pressure-reducing valve (small hand wheel on hose side).
- d. Open bottle valve fully. The left manometer will display the pressure in the bottle; the right manometer will show the working pressure of the pressure reducer. The working pressure should be max. 4 bar, if necessary reset the pressure reducer with the adjusting handle to this value.
- e. Open the pressure reducing valve, the supporting frame will inflate.
- f. As soon as the pressure relief valve of the supporting frame chamber is activated, close the bottle valve to prevent the bottle from being emptied completely.
- g. Remove the pressure hose, unscrew the pressure reducer from the bottle and Replace the dummy plugs onto the compressed-air bottle.

	CAUTION!	A hose that is under pressure can whip around and cause injury if it comes off the connection!
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Note: *The inflation/discharge valve should not be covered with dust, dirt or the like.*

Securing

The Airshelter Tent now is erected and has to be secured with the ground pegs and guy ropes. Ground pegs are to be placed in an angle of 45 to 60 degrees and be put in the ground all the way down to allow full load to be applied to the ground peg.



Ground pegs lay out

6. Breaking up

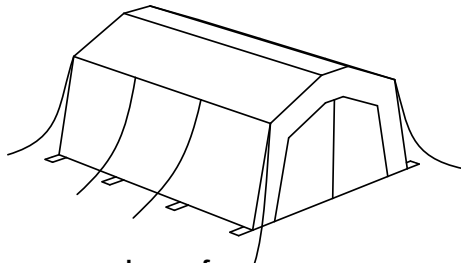
Make sure the tent and accessories are dry and clean before packing and storing.

Before deflating and packing up the Airshelter VII, remove all objects such as lighting, vehicles and/or persons not assisting or aiding with the breaking up of the Airshelter.

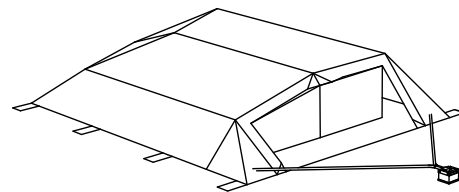
Remove the guy ropes from the ground pegs. Pull the ground pegs from the ground. Open the valves and let the air out. Attach a blower in suction mode to extract entrapped air. Leave it on during the breakdown.

Spread the Airshelter evenly over its ground sheet. Remove ground pegs from the flaps. Fold the Airshelter four ways. Roll up the Airshelter VII in the direction of the valves, thus pushing out entrapped air.

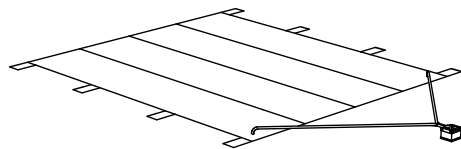
When fully deflated and rolled up, turn off the blower and disconnect the hoses from the valves.



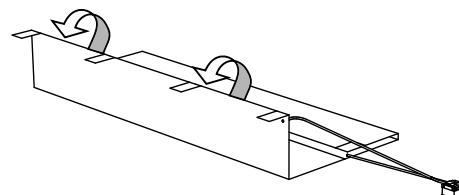
Remove ground pegs from guy ropes



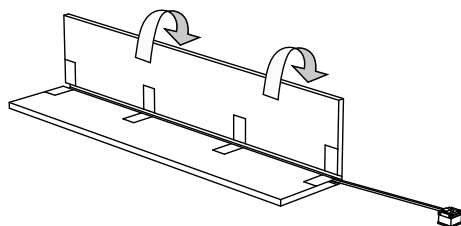
Deflate Airshelter using the blower



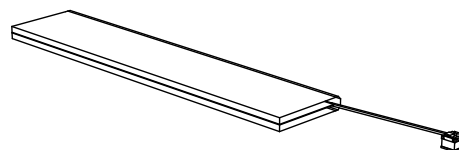
Remove ground pegs from the flaps



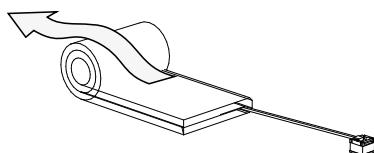
Fold the sides to the middle



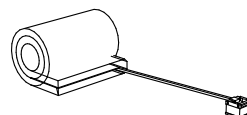
Fold the Airshelter IX over the middle



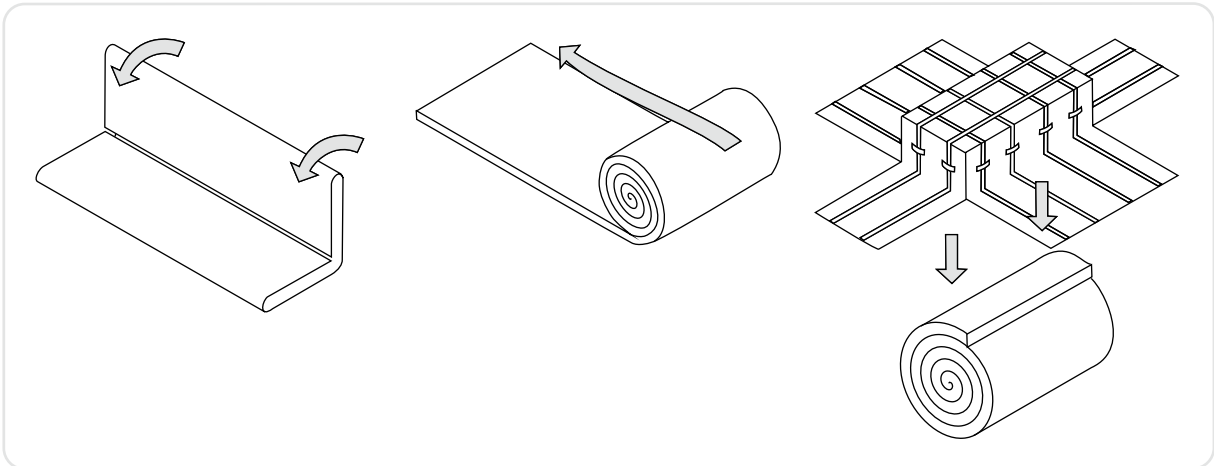
Folded and ready to be rolled up



Rolling and pushing out remaining air

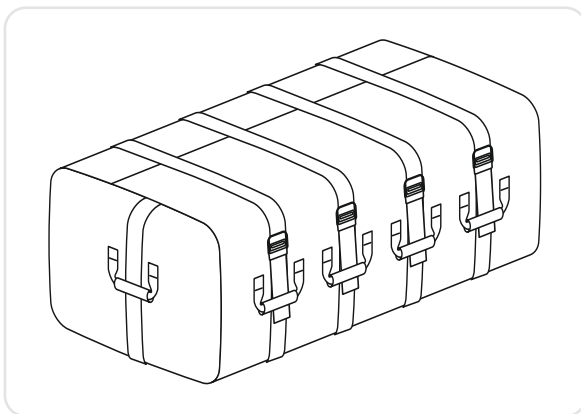


Completely deflated and rolled up



Folding, rolling and packing the tent

Pull the transport and storage bag over the rolled up tent.
Put the bag upright and close it. Do not pull the straps too tight. Just closing the straps is enough.



Packed and closed transport bag

7. Maintenance

General

Never store the shelter when moist, wet or dirty for a period longer than 1 week. Shelter should be cleaned and dried before storage.

Cleaning the Airshelter shelter

The Airshelter ground sheet may be cleaned with hot water and standard mild cleaning agents. If necessary one may clean the textile parts of the shelter using a soft sponge and a hand warm water and a standard mild cleaning agents. Rinse the shelter after this treatment with clean water and let it dry in the open air. Keep the valves and the screws in the valves clean.

Repair

Emergency repairs, fixing small leaks in the fabric or the frame, is allowed without loss of warranty.

Alterations to the Airshelter may only be carried out after prior approval of the manufacturer.

Clean the Airshelter with water before starting any maintenance or repair work.

Keep the working space clean, tidy and well illuminated.

Only use original parts if a component needs to be repaired or replaced.