



POLAR
spa

MANUAL

for installation and operation
of composite tubs
Warranty card.

CONTENTS

GENERAL RECOMMENDATIONS _____ 3

TUB INSTALLATION _____ 5

TUB MAINTENANCE AND OPERATION _____ 7

WARRANTY STATEMENT _____ 12

Thank you for purchasing a composite tub POLARSPA.

POLARSPA products are the result of the joint efforts of the best engineers and designers who have ensured the highest level of safety, quality and comfort of each product. By buying our products, you have made a good contribution to a healthy lifestyle, and the top quality of all components of our products ensures that they will last for many years without problems.

In this manual we have summarised key recommendations and rules for the operation of our products, which will help you to maximise their service life.

GENERAL RECOMMENDATIONS

POLARSPA tubs with BASIC composite bowls are designed for home use only.

For commercial (more frequent) use there are ENHANCED series of tubs with reinforced composite bowls, which include an additional protective BARRIER layer of vinylester resins, increasing the service life of the bowl and making it suitable for long-term water storage and resistant to the use of aggressive chemicals such as chlorine, active oxygen, salt, etc.

POLARSPA products can be used all year round, both indoors and outdoors. Products with standard wood-fired water heating stove can be operated **outdoors only, or indoors with the chimney routed from the heating** stove to the outside.

The inner part of the tub is a composite bowl made of composite material (of European origin). Composite is a modern material with special properties. The outer (protective) layer of the composite liner is made of special premium gelcoat for swimming pools produced by BUFA Composite Systems GmbH & Co. KG, Germany. It is a fade-resistant, wear-resistant, pH-neutral and hypoallergenic material. The structural layers of the liner are made of vinylester, polyester resins and glass-based material, which ensure maximum strength and rigidity to the tub liner.

POLARSPA tubs are installed on rigid supporting metal frames made of structural steel, which ensures excellent durability.

Optionally, the tubs can be fitted with water heating stoves, air massage equipment, LED lighting and other additions and accessories.

TRANSPORTATION

POLARSPA tubs are transported assembled (except for chimney elements, ladder and external stove) in protective packaging. The external stove is transported on a separate pallet, the ladder and chimney elements can be stored inside the tub or placed on a separate pallet. The tub must be securely fastened during transportation to prevent any movement inside the vehicle.

Avoid collision with other objects when handling, loading and unloading.

When transporting the tub over long distances (especially with several transfer points), it is recommended to additionally pack the tub in an OSB box to avoid impacts during transfer between vehicles.

SAFETY MEASURES

- People with cardiovascular or nervous system disorders should consult a doctor before using our products.
- Do not allow children under 16 years old to use the product without parents.
- To avoid danger, do not use electrical appliances while in the tub or near the tub filled with water.
- It is prohibited to install the product near open flame sources.
- Ensure the safety of stairs and paths to the tub, especially in winter.

TUB INSTALLATION

The product must be installed on a solid, level, horizontal surface. Surface examples: concrete screed, compacted gravel or hardwood decking.



It is prohibited to install the tub on an inclined surface (in order to ensure even load distribution on all load-bearing elements of the tub and free circulation of water in the water heating system).

When installing the tub, ensure a gap between the bearing surface and the tub liner for air circulation.

Water drain. Depending on the model, water can be drained either from the bowl drain valve or from the stove drain valve. During installation, identify the water drain point. It is recommended to provide measures for draining water to a sanitary sewer, rain water sewer or drain ditch.

Fire safety.

If a product fitted with a water-heating stove is installed next to a building, it must be ensured that the chimney is located far enough away from the roof structure. The distance must be checked both horizontally and vertically to avoid the risk of fire.

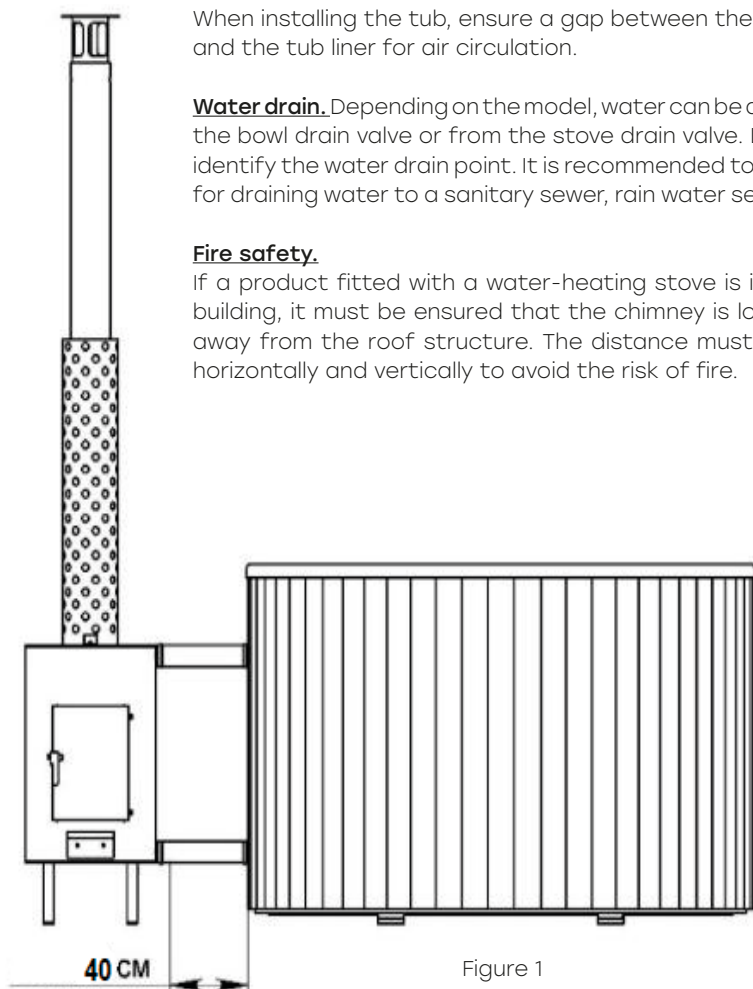


Figure 1

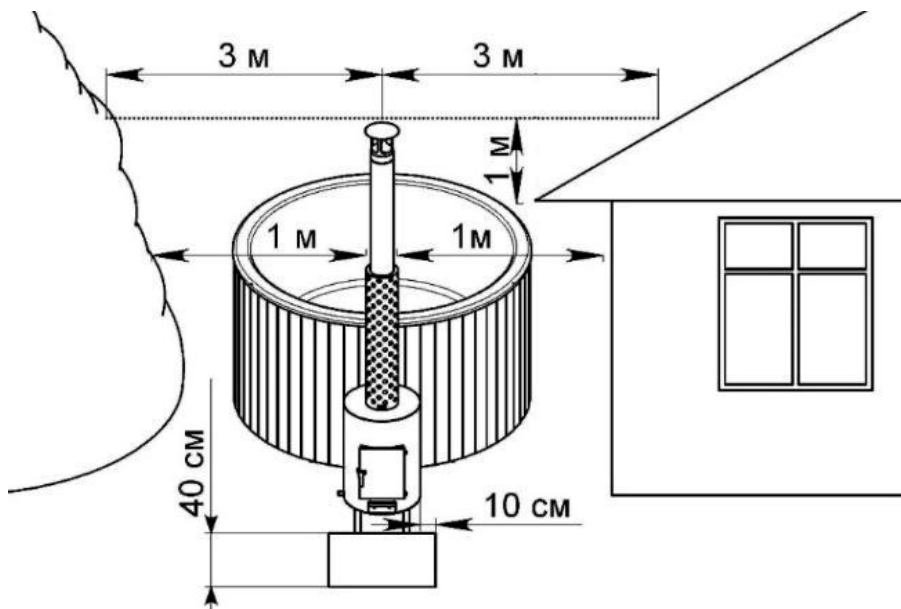


Figure 2

The recommended distance between the external water heating stove and the tub is 40 cm. The length of the hoses connecting the external heating stove to the tub can be increased up to 2 m, but this will result in longer tub heating time.

The water circulates naturally through the rubber hoses connecting the heating stove and the tub, without the use of any circulation pumps.

Figure 2 shows the fire safety guidelines for selecting the location of the stove. The lower part of the chimney has a thermal protection.

TUB MAINTENANCE AND OPERATION

GENERAL RECOMMENDATIONS FOR MAINTENANCE AND OPERATION

- Always drain the tub after use at temperatures below zero (if the product is installed outside a heated room).
- Do not leave water in the tub for long time. The recommended drain interval is at the end of each day of use. **Do not leave water in the bowl of a product with a basic level of protection for more than 4 consecutive days without draining and intermediate drying.**
- Never expose the surface of the bowl to strong acids and alkalis, sea salt, open flame, etc.
- To prevent damaging the bowl, never hit the bowl surface with hard sharp objects, or place any heavy objects, especially with sharp edges, on the tub surface.
- **Never use brushes, scrapers or detergents containing coarse abrasive particles to clean the bowl. Use soft sponges or cloths soaked with MILD liquid detergents.**
- If it is necessary to enter the bowl to service it, we recommend using shoe covers to protect the decorative layer and ensure hygiene.
- To prevent rust stains on the walls of the tub bowl, after each use, rinse the tub bowl with water and wipe dry with a clean, dry linen cloth (woollen cloth is not recommended).
- There may be minor rusting of the metal frames of the tub, which does not have any effect on the performance of the whole structure.
- As the tub is used, small scratches may appear on the composite bowl, which can be easily repaired using a repair kit (fine sandpaper, protective gelcoat and composite polishing paste).
- Regular cleaning and timely maintenance of the product is important to ensure hygiene and long service life.
- It is necessary to treat the surface of the wooden lining of the tub at least once a year with protective compounds.

RECOMMENDATIONS FOR THE OPERATION OF HEATED TUBS

- Before filling the tub with water, please ensure that the water drain hole is closed.
- Remember that heating equipment is a source of increased danger. Never allow minors to operate tubs heated by wood-fired stoves.
- **The heating stove can be fired up ONLY when the water in the tub is 5 cm above the level of the upper nozzle.**
- When firing up the stove, make sure that air is flowing into the firebox. Depending on the stove model, the air flows either through the damper or through the ash box. When the wood (fuel briquettes) is sufficiently heated, the air flow into the firebox can be reduced by closing the damper to 90% (or the ash drawer, depending on the stove model). **It is recommended to fire the stove with hardwood firewood with moisture content less than 18% or RUF fuel briquettes (made of pressed sawdust).** Never use fire starting aids when firing the stove, as they leave soot, which affects the heat exchange (alcohol tablets are allowed). Stack the firewood orderly, covering no more than 2/3 of the stove capacity. The optimum length of firewood for a tub stove is 35–40 cm.
- When firing the tub stove, temperature differences may cause condensation on the walls of the stove. The condensate can drip, but it will be less than 1 litre. As the stove and water in the tub warms up, condensation should stop.
- During the first few firing cycles of the stove, small deposits may form on the walls of the tub, and some process waste (including metal shavings) may appear at the bottom of the tub. IT IS RECOMMENDED NOT TO USE THE TUB DURING THE FIRST FEW FIRING CYCLES OF THE STOVE, BUT TO ENSURE A TEST OPERATION FOR 1 HOUR, thereby checking the stove for leaks, remains of process waste, then drain the water and wash the composite bowl of the tub for the following use.
- If the water changes its colour (e.g. becomes yellowish-red instead of being clear) when the tub stove is heated for the 3rd and following times, it is likely that there are impurities (e.g. iron) in the water. In this case, we recommend performing a sanitary analysis of the water. If the water contains impurities and needs to be treated, we recommend contacting the relevant specialists who can suggest options for water treatment and disinfection at the place of installation and operation of the tub.
- Please note that the water in the tub is heated unevenly, being warmer at the top and colder at the bottom. Ensure that the water in the tub is stirred periodically during heating (e.g. using a paddle or briefly activating the air massage system) to achieve an even water temperature throughout the tub. If you have overheated the water, simply add cold water to the tub to achieve the desired temperature. After firing up and using the tub a few times, you will soon remember the time necessary to warm the water to your desired temperature.

- In winter, there is a risk of water freezing in the water supply and intake nozzles and pipes, therefore it is important to make sure that the water can circulate freely.
- **ALWAYS DRAIN THE TUB BOWL AND THE STOVE WHEN THE TUB IS OPERATED UNDER TEMPERATURES BELOW ZERO.** Otherwise, there is a risk of damage to the heating stove (rupture of heating stove pipes). Never drain the tub if the fire in the stove is not completely extinguished and the ash has not cooled down.
- If, nevertheless, the water in the tub bowl has frozen, IT IS PROHIBITED TO FIRE THE STOVE. Firing the stove without water in the tub will damage the stove and the ice will not melt. You will have to wait for the ice in the tub bowl to melt naturally.
- Make sure that the tub stove chimney does not come into contact with building structures to prevent a fire.
- To reduce the water heating time, it is recommended to use a thermal cover. Otherwise, the water heating time will increase up to twice.
- Watch the temperature of the water coming out of the stove so that it does not boil. If the water starts to boil, reduce the firing intensity by decreasing the air supply through the damper and do not add wood.
- Regularly clean the stove and chimney of ash.
- In winter it is recommended to clear snow from the area around the tub so that the bottom of the tub does not stay in the snow (to avoid swelling of the wooden lining of the tub due to prolonged exposure to moisture).
- Recommended water temperature for bathing in the tub:
0–15°C: energizing effect (cold training);
37–40°C: relaxing effect similar to Russian sauna, warming and deep cleansing.



Attention! When using a wood stove, there is a risk of heating the water in the tub to significantly higher than the maximum recommended temperature. Always check the water temperature before entering the tub!

RECOMMENDATIONS FOR THE USE OF TUBS FITTED WITH AIR SYSTEMS

- Connection of the systems to the mains must be carried out by a specialist who has all the certificates and licences required to carry out such work.
- The electrical connection must be made in accordance with all applicable international and local regulations.
- Make sure that the electrical parameters of the systems match your electrical system.
- The system must be connected through a protective circuit breaker with a sensitivity (tripping current) of at least 30 mA.
- In order to save energy and reduce wear and tear on the system, use the system only when needed (when there is someone in the tub).
- Be careful not to damage the power supply cable. Damaged cable must be replaced immediately.
- Incorrect connection to the mains may result in damage to the electric motor of the system.
- Ensure sufficient air circulation in the electric motor area.
- Always disconnect the system from the mains before performing any work on the system.



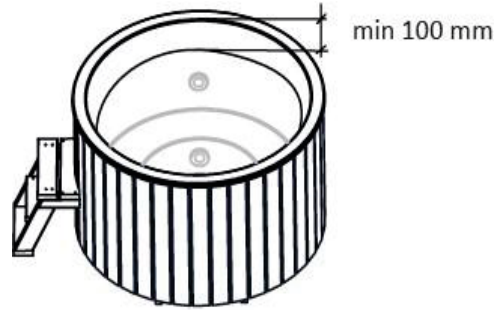
IN WINTER, NEVER ALLOW WATER TO FREEZE IN ANY PART OF THE AIR MASSAGE SYSTEM. DRAIN THE WATER FROM THE TUB WHILE IT IS STILL WARM. AFTER USING THE TUB, BLOW DOWN ANY RESIDUAL WATER FROM THE SYSTEM BY RUNNING IT IDLE WITHOUT WATER IN THE TUB FOR APPROXIMATELY 30 S.

AIR MESSAGE SYSTEM OPERATION

Air massage is a type of underwater massage by means of an air supply.

The air massage system consists of hoses and nozzles installed in the walls or bottom of the composite tub liner, through which massaging air is supplied by a pump.

Always use the air massage system strictly in accordance with the instructions.



IMPORTANT!

TO AVOID WATER ENTERING THE AIR MESSAGE SYSTEM PUMP, THE WATER IN THE TUB MUST NOT RISE ABOVE THE LEVEL SHOWN IN THE FIGURE (100 MM TO THE TOP OF THE TUB).

WHEN USING THE AIR MESSAGE SYSTEM:

- CHECK THE CONDITION OF THE NOZZLES. THE AIR MUST BE ABLE TO PASS FREELY THROUGH THEM TO AVOID INCREASED LOAD ON THE MOTOR WHICH CAN LEAD TO ITS FAILURE.
- AFTER DRAINING THE TUB, REMOVE ANY RESIDUAL WATER FROM THE AIR MESSAGE SYSTEM. BLOW DOWN THE SYSTEM BY IDLING IT WITHOUT WATER IN THE TUB FOR APPROXIMATELY 30 S.
- DO NOT SWITCH ON THE AIR MESSAGE SYSTEM WITHOUT FILLING THE TUB WITH WATER. THE WATER LEVEL MUST BE AT LEAST 50 MM ABOVE THE AIR NOZZLES.
- IN CASE OF AUTOMATIC SWITCHING OFF OF THE AIR MESSAGE SYSTEM (AFTER 40 MINUTES OF CONTINUOUS OPERATION, THE AIR MESSAGE SYSTEM IS AUTOMATICALLY SWITCHED OFF AS THE COMPRESSOR OVERHEATING PROTECTION TRIPS) IT CAN BE SWITCHED ON AGAIN NO SOONER THAN AFTER 20 MINUTES. NEVER RESTART THE SYSTEM OR SWITCH ON THE COMPRESSOR EARLIER THAN 20 MINUTES AFTER THE AUTOMATIC SWITCH-OFF.

WARRANTY STATEMENT

WARRANTY PERIOD

This warranty is provided by the manufacturer for the entire product (including options and tub accessories) in addition to the consumer rights established by the applicable laws of the country of purchase.

The manufacturer shall not be liable under warranty for equipment and components assembled and installed by the customer themselves or by unqualified third-party organisations.

This warranty covers the decorative coating of the bowl, accessories and additional equipment of POLARSPA tubs with the BASIC bowl and is valid from the date of purchase (transfer to the end user) for 12 months in case of personal use or 6 months in case of commercial use, provided that the requirements stated in this operating manual are observed.

This warranty covers the decorative coating of the bowl, accessories and additional equipment of POLARSPA tubs with the ENHANCED bowl and is valid from the date of purchase (transfer to the end user) for 36 months in case of personal use or 12 months in case of commercial use, provided that the requirements stated in this operating manual are observed.

This manufacturer's warranty also covers the tightness of the composite liner and is valid for 10 years from the date of purchase of the product in case of personal use or 5 years in case of commercial use, provided there is no mechanical impact and damage.

WARRANTY CONDITIONS

This warranty provides for warranty service in case of material and manufacturing defects.

This warranty is valid provided that the following conditions are fulfilled:

1. The product must be used strictly in accordance with the operating manual and in compliance with safety regulations and requirements.
2. This warranty does not cover defects caused by:
 - a. repair and/or installation of the product by persons or organisations not qualified to perform such work;
 - b. incorrect installation and use of the product, use of the product for purposes other than as intended, violation of safety requirements or insufficient maintenance;
 - c. natural wear of the product, composite bowl, finishing elements and other parts that do not directly affect the operational properties of the tub (e.g.: abrasions caused by long-term use of the tub or defects due to the natural properties of wood, such as changes in the colour, moisture content, cracks, etc.);
 - d. chemical, mechanical or other damage (including force majeure, accidents, intentional or negligent actions of the user or third parties, etc.);
 - e. introduction of structural changes without the manufacturer's approval, as well as installation of parts not provided for in the technical documentation and operating manual;
 - f. non-compliance with norms and standards for water supply, sewage and electricity networks (including use of impure water, pressure surges in the water supply system, voltage surges in the electric mains);
 - g. non-compliance with transportation and storage requirements;
 - h. water or foreign objects, insects, hair, aggressive chemicals, etc. got inside the electric motors (pumps) of the air massage system.
 - i. damage (chipping) of the stove door glass.
3. This warranty is valid only if the warranty card is correctly filled out and documents confirming the date of purchase are provided.
4. The manufacturer declines any responsibility for possible damage directly or indirectly caused by the product to people, pets or property.
5. The manufacturer reserves the right to make design changes that do not affect the basic characteristics specified at the time of sale.
6. A defect claim should be sent to the place of purchase of the product.

WARRANTY CARD

Composite tub
Model:

Options and accessories:

Date of purchase: -----

Warranty period for decorative coating (6 months/12 months/36 months) -----

Warranty period for components and optional equipment (6 months/12 months)

Warranty period for bowl tightness (5 years/10 years) -----

Seller, address, phone number:

----- (seal)

Seller's signature -----

No defects were found during visual inspection of the product.

I have read and understood the contents of this manual.

Customer's signature-----

- The warranty is valid provided that the warranty card is filled in, stamped by the seller and signed by the customer.
- In case of inadequate quality of the product, the customer should first contact the seller at the place of purchase.
- The warranty does not cover defects caused by improper connection and negligent operation, as well as defects caused by incorrect transportation and/or mechanical impact on the tub.

[illegible]

POLARSPA İNŞAAT TURİZM GİDA İTHALAT İHRACAT SAN. TIC. LİMİTED ŞİRKETİ

Manufacturer of modular saunas and all-season composite hot tubs TM POLARSPA, using advanced European technologies based on innovative composite materials.



Made in Canakkale, Republic of Turkey

📍 OFFICE, SHOWROOM AND WAREHOUSE IN POZNAN (POLAND)

62-081 Baranowo, Rzemieślnicza St. 89

+48 736 244 807 (ENG)

+48 736 227 054 (ENG)

+48 784 075 550 (ENG)

+48 735 950 496 (DE)

+48 668 835 940 (PL)

PN-PT 09:00–17:00

www.polarspa.com.pl

📍 Head office and production in Canakkale, Turkey

Canakkale, Isiklar Köyü Testici Kiri Mevkii Can Yolu 23-2 Merkez

+90 539 644 87 86

www.polarspa.eu