TECHNICAL PASSPORT OF THE HOT TUB, INSTALLATION AND SERVICE INSTRUCTIONS

CONTENT

1. IT IS PROHIBITED

2. WARRANTY SHEET

The warranty covers 12 months.
Products that are used for commercial purposes, including rental, or that are used in a non- domestic environment are only covered by a 6 month warranty.

3. TERMS OF WARRANTY REPAIR

Necessary conditions for warranty repairs:
1. Date of sale indicated;
1.1 The defective item is transported at the buyer's expense, along with the necessary documents;
2. In the case of a complex fault, the repair may take up to 30 days.
We guarantee a free repair if:
3.1. There are no mechanical damages and changes; The hot tub is not repaired if it is permitted as e.g. to the terrace.
3.2. The device is operated correctly.
3.3 Supplier may ask for the technical passport of the outdoor hot tub, if you do not have to service it, it is optional.
The warranty does not provide for compensation for any other damages or other claims.

The warranty does not cover defects or damage caused by these reasons:

- The device is not used as intended.
- The requirements of the operating and maintenance instructions for the device are not followed.
- Inappropriate or low-quality consumables are used.
- Due to natural wear and tear.
- Defects in the product caused by the formation of lime or iron deposits lead to contamination with sand, gravel, silt, etc. when foreign objects get inside the pump.
- If the product failure is due to excessive or sub-zero temperatures than specified in the manufacturer's recommendations.
- The device has been repaired or rebuilt by third parties.
- The user did not notify the manufacturer of the original failure and continued to use it during the failure.
- The use of chlorine and salt concentrations with the 430 marking furnace is prohibited.
- An overdose of chlorine and salt concentrations can damage the liner paint.
- The product is no longer owned by the original retail user.
- Wear and tear of operating parts is not considered a fault and warranty repair is not applicable in this case.
- Due to circumstances of force majeure (the elements, fire, lightning, etc.) or for other reasons that are not the fault of the seller and are beyond the seller's control.

- If it is necessary to remove the hot tub for repair or replacement, the customer must pack the defective tub on a pallet and prepare it for transport and leave it in a convenient place for collection.
- In case of mechanical damage.
- The hot tub is used on an uneven or poorly prepared surface than specified in the instructions.
- The product is damaged due to improper ventilation.
- Turning on the nozzles without sufficient water, as this may damage the pump.
- Leaving the Outdoor Hot Tub uncovered when there is no water in it.
- Rodents or other animals.
- Outdoor hot tub cover components and other accessories are not covered by warranty.
- Improper voltage sources, voltage spikes. (Operation not according to specified voltage requirements).

READ THE INSTRUCTIONS FOR USE CAREFULLY. FAILURE TO FOLLOW THE REQUIREMENTS IN THE INSTRUCTIONS WILL NOT COVER THE WARRANTY SERVICE.

4. PREPARATION OF THE HOT TUB FOR USE

4.1 INSTALLATION OF THE HOT TUB

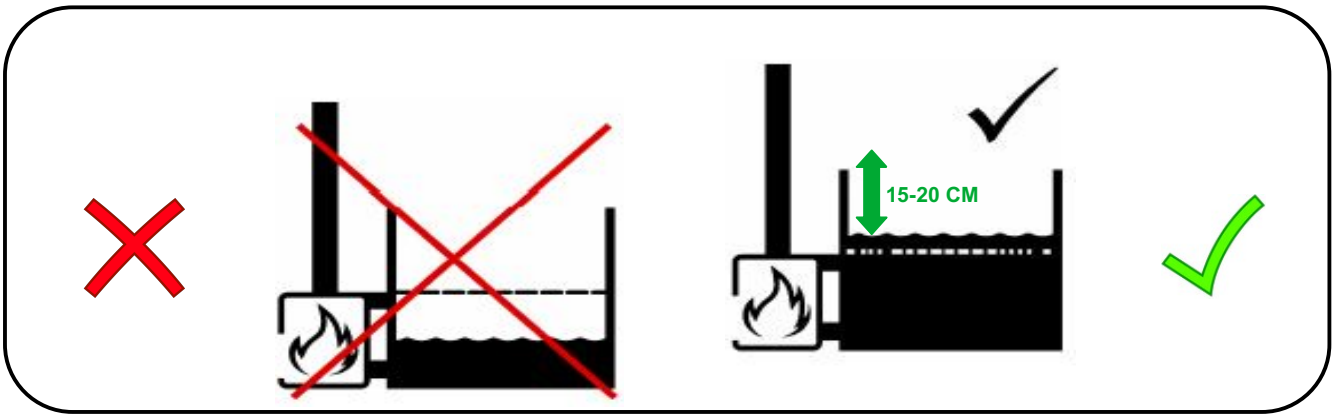
The outdoor hot tub must be placed on a smooth, leveled surface (e.g. wooden floor or concrete surface). If the hot tub is not properly placed on the appropriate surface, it may lose its strength, stability or even aesthetic appearance. The outdoor hot tub must be placed on a flat, leveled surface so that it is stable and sturdy. If it is placed on an uneven or unbalanced surface, it may cause instability and may even damage the structure of the hot tub. In addition, it can also damage the aesthetic appearance, as the shape of the hot tub can change. Therefore, it is recommended to pay special attention to the selection and preparation of the location of the hot tub so that it is firmly and stably built (e.g., smooth wooden floor or concrete surface). Suitable and non-suitable surfaces are shown below.






4.2 PREPARATION OF THE HOT TUB

Before using the hot tub, it must be thoroughly and thoroughly washed. Hot tubs made of polypropylene, acrylic or fiberglass can be cleaned with household bath cleaning products. Cleaners and solvents are not recommended, e.g. acetone, paint cleaners, varnish thinners. It is recommended to clean the hot tub liner after each use. Do not leave cleaning solutions on the insert for a long time, as this may damage the structure of the fiberglass or acrylic. After washing the hot tub, it should be filled with water (tap water), but it is important that the water level is left 15-20 cm from the top of the tub edges. Before starting to heat the hot tub, check that the water is sufficiently filled. Pictured below.

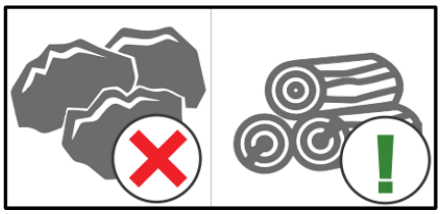


4.3 HOT TUB HEATING WITH INTEGRATED STOVE

When the hot tub is filled with the required amount of water (at a distance of 15-20 cm from the top of the edge of the tub), you can start the stove. The best way to start a fire is with small pieces of wood and paper. Once the flame is lit, you can add larger logs of wood. It is recommended to use dry wood. The draft of the fire air can be adjusted by the damper located at the bottom of the door.

We recommend using firewood or briquettes for heating.

Avoid using coal and fresh fuel, wet/raw firewood.



IMPORTANT - the heating temperature of fiberglass tub heaters cannot rise higher than + 45 ° C, because higher temperatures can damage the fiberglass alloy and the paint of the liner. It is recommended to maintain + 37 ° C.

IMPORTANT - do not add more wood than 2 thirds of the height of the stove to prevent the flame from penetrating the door.

IMPORTANT - don't forget that you can't start a fire until the tub has the right amount of water, as the heat generated will damage the hot tub.

IMPORTANT - water from the hot tub can only be removed after the stove has completely cooled down. Otherwise, the residual heat will damage the tub and the stove itself.

4.4 HOT TUB WITH EXTERNAL STOVE

The outdoor stove and outdoor hot tub must be placed on a level, solid base. It is important that the front of the heater is slightly lower. It is prohibited to connect additional filters or circulation system to the circulation system of the external heater. When the tub is filled with the required amount of water (at a distance of 15-20 cm from the top of the tub rim), you can light the fire. The best way to start a hot tub stove is with small pieces of wood and paper. Once the flame is lit, you can add larger logs of wood. It is recommended to use dry wood. The draft of fire can be adjusted with the help of the air flap of the heater door.

IMPORTANT - make sure you don't add too much wood to prevent the flame from coming through the door.

IMPORTANT - don't forget that you can't start a fire until the tub has the right amount of water, as the heat generated will damage the tub.

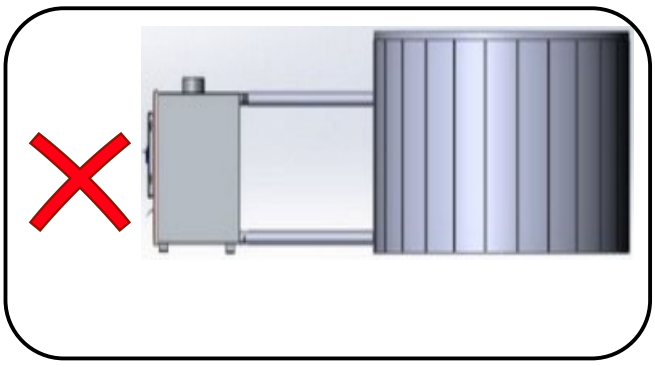
IMPORTANT - water from the hot tub can only be removed after the stove has completely cooled down. Otherwise, the residual heat will damage the tub and the stove itself.

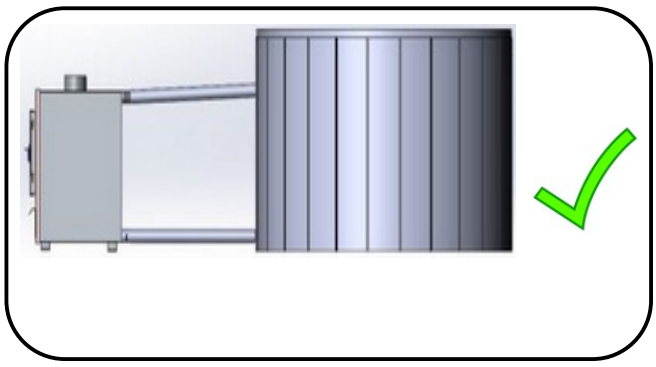
IT IS PROHIBITED - leave the water in the hot tub if the outdoor air temperature is below 0°C and the tub is not heated by a heater or electric heater to maintain the optimal water temperature.

It is very important that the rear part of the stove and the water outlet hose/pipe should face upwards, otherwise water circulation will not take place and the resulting water pressure will damage the stove.

If your hot tub has an integrated one stove, then you have to level the tub itself with the help of a spirit level.

Pay attention to the given picture, the picture marked with a green tick must correspond to the outdoor hot tub you have built. The upper hose goes up, the lower hose goes straight to the outdoor tub.





4.5 HOT TUB WITH ELECTRICAL DEVICES

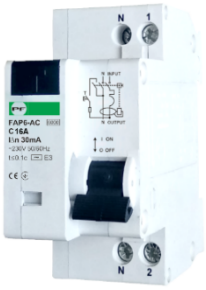
⚠ IMPORTANT - If the purchased hot tub has electrical components (SPA systems, LED lighting, filters, electric heating), we recommend connecting the hot tub's electrical system directly to a stationary electrical cable, so no electrical outlets will be needed. The stationary wire must be connected to the hot tub relay or junction box if your selected hot tub does not have one, according to the diagrams below.

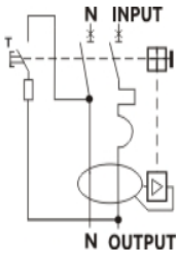
AC type, 2 poles

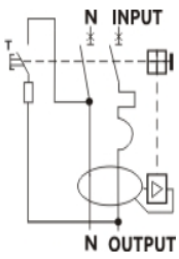
- An AC type of residual current switch that is sensitive to residual AC current.
- Without delay.
- 30 mA version, suitable for the protection of people in direct and indirect contact with live parts and live parts in the event of a fault.
- Optional with S or S + A type RCCB installed upstream.
- When using an electric heater, a C25 automation must be used in the electrical distribution box and we recommend purchasing a cable for 2.5m^2

Automatic switch with current leakage relay FAP6-AC C16

C16A | Circuit diagram | C25A | Circuit diagram







⚠ IMPORTANT - To avoid problems with electrical equipment and to ensure safety, you must ensure that the electrical power is grounded.

⚠ VERY IMPORTANT - If the hot tub has electric heating, the fixed wire must be 2.5 m^2 thick.

Always handle the heater with care if the hot tub is heated by an external or internal heater.
It is recommended to clean the heater (stove) every 3-5 times using the tub, using a small spatula.

Do not leave the hot tub running unattended!
For safety reasons, do not leave children unattended in or near the hot tub while the water is in the hot tub under any circumstances!!!

4.7 HOT TUB WITH ELECTRICAL HEATING 3-6-9 Kw

The body of the device is made of high-quality polyamide – The heater also has a thermostat that can set the desired pool water temperature from 0°C to 45°C. The device heats the pool water in a short time and is corrosion resistant. Simple horizontal installation due to fixed brackets. Also available with titanium heating element for saltwater pools. For salt water pools - Connections to the pool system made of resistant plastic (Ø50 mm). Certified and tested for maximum safety and reliability.

Technical parameters of the electric heater:

Power: 2,7 – 3,5 kW		**Max pressure 2,5 bar**
220-240 V / 380-415 V	**50 Hz / 60 Hz**	**Max temperature 45°C**

When the hot tub is filled with the required amount of water (at a distance of 15-20 cm from the top of the edge of the hot tub), you can turn on the electric heater. First, turn on the circulation pump with the buttons on the bath panel. Then adjust the desired temperature. The temperature is controlled by turning the dial on the heater. When the temperature reaches the appropriate point (the desired heat level), the electric heater switches off automatically. When the water cools, the heater will automatically turn on to heat the water to the temperature you set.

To turn off the heater completely, turn off the circulation pump (the circulation pump is turned on / off with the same button on the bath panel).

⚠ **IMPORTANT - when pouring water from the tub, the electric heater must be turned off (including circulation pump).**

⚠ **IMPORTANT - do not turn on the heater if the water level has not reached the recommended level.**

NOTE: use of an electric heater in sub-zero outdoor temperatures:

- Before pouring water, the dial should be set to 0 °C.
- Fill the tub with water to the recommended level.
  Once the hot tub is filled with the recommended amount of water, adjust the heater dial to the desired temperature and connect the circulation pump.
  These actions should be carried out in the cold season, when the outside temperature is below zero, to prevent the circulation pump from freezing.

5. SPA SYSTEMS, THEIR USE AND MAINTENANCE

5.1 AIR MASSAGE SYSTEM

Air massage system structure: air compressor from 700W to 800W power, 12 pcs. air currents - installed in the bath wall, as well as other installation materials. Air massage on/off is on the hot tub. After draining the water from the hot tub, keep the air massage on for 30 seconds to remove the water from the system.

Technical parameters of the air pump:

Power: 700 W / 800 W	**Heater Power: 300 W**	
230 V / 220-240 V	**60 Hz / 50 Hz**	**4.3 A / 3.6 A**

IMPORTANT - in the cold season, you can turn on the air system only when the water temperature is higher than 30 ° C.

5.2 WATER MASSAGE SYSTEM

The structure of the water massage system: The power of the water compressor (900W - 1100W - 1500W) and 6-8 or more psc. of water jets and other installation materials. The water massage on/off is on the hot tub. The water massage system has an additional control (a compact design with a rotary knob on the tub panel next to the on/off button) to control the "spray power" of the water flow. After draining the water from the hot tub, keep the water massage on for 30 seconds to remove the water from the system.

Technical parameters of the water motor:

Power: 900W/1100W/1500W	**Max temperature 50°C**	
220-240 V	**60 Hz / 50 Hz**	**4.0 A**

IMPORTANT - in the cold season, you can turn on the water system only when the water temperature is higher than 30 ° C.

5.3 COMBINED SPA SYSTEM

Water massage system structure: air compressor 700 W power and water compressor (900-1100 W), 8 pcs. combined water/air jets - installed in the hot tub wall, additional 4 pieces of air jets.
The combined massage system has 2 switches on the hot tub panel. One of them turns on/off the air compressor, the other turns on/off the water compressor. You can turn on air massage, water massage or both devices together. After draining the water from the tub, keep the air massage on for 15-30 seconds to remove the water from the system.

IMPORTANT - in the cold season, you can turn on the air system only when the water temperature is higher than 30 ° C

6. WATER FILTERS

6.1 CARTRIDGE FILTER

The cartridge filter is placed next to the hot tub and is connected by two hoses through which the water in the tub is filtered.

⚠ **IMPORTANT - in the cold season, when the air temperature is below 0 degrees, it is necessary to close the filter holes in the hot tub so that water cannot reach and freeze the filter connection hoses.**

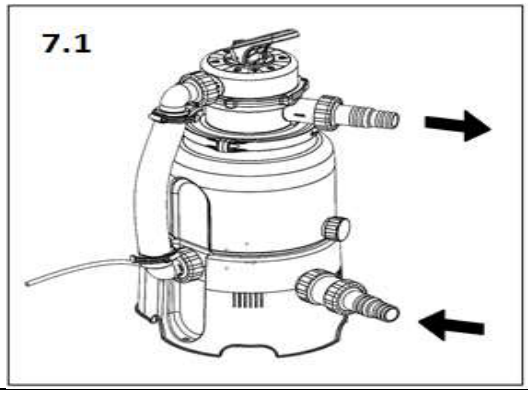
When the hot tub warms up to + 30 ° C. degrees, open the filter holes. If the hot tub is kept at a constant temperature, the filter can be used at sub-zero temperatures.

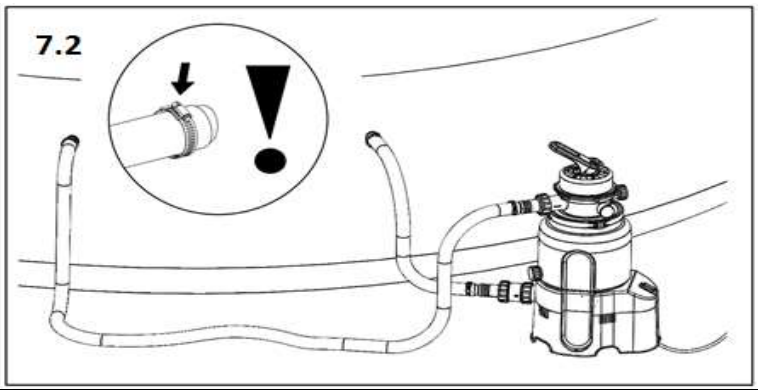
6.2 SAND FILTER

The sand water filter is placed next to the hot tub and connected by two hoses through which the water is filtered in the tub. (see image 7.1, 7.2)

⚠ **IMPORTANT - in the cold season, when the air temperature is below 0 degrees, it is necessary to close the filter holes in the hot tub so that water cannot reach and freeze the filter connection hoses.**

⚠ **IMPORTANT – According to the manufacturer's recommendation, the sand filter cannot be used when the water temperature reaches above + 38 ° C. degrees, it is necessary to close the filter holes in the tub or disconnect the filtration system from the outdoor tub.**





Voltage	230 V/ 50 Hz
Energy consumption	85 W / 190 W / 250 W
System traffic bandwidth	2m³/h / 4 m³/h / 5m³/h
Filter diameter	143 mm
For pools up to	6m³/15m³/20 m³
Maximum water temperature	38°C
Sand capacity and type	14 kg Quartz sand 0.6 – 1.2 mm
Connectors	32/38 diameter pool hose

7. SPA WITH SOUND SYSTEM

7.1 SAFETY INFORMATION

⚠ Risk of electric shock. Do not leave compartment doors open.

⚠ Risk of electric shock. Replace components only with identical components. Do not use the audio/video controls while inside the outdoor spa tub.

⚠ Protect against electric shock. Do not connect any auxiliary components (such as speakers, headphones, additional audio/video components, etc.) to the system.

Do not service this product yourself as opening or removing covers may expose you to dangerous voltage or other risk of injury. Refer all service work to qualified service personnel.

If the power connectors or power cord(s) are damaged; if the audio/video connection enters the water compartment or any area of the electrical equipment compartment; if there are signs of water on the shields or barriers; if there are signs of disassemble; or if there are other signs of possible damage to the device, turn off the device and refer it to qualified personnel for maintenance.

7.2 BLUETOOTH SOUND SYSTEM OPERATION

Bluetooth performance:
If your audio player has Bluetooth functionality,
you will find it easy to stream audio to a subwoofer/amplifier
Steps to use and connect to BLUETOOTH:

1. Connect the outdoor hot tub to a power source.
2. You will hear a beep to indicate that the Bluetooth system is ready to turn on.
3. Go to the "Settings" of the audio player and select "Bluetooth".
4. The audio player should start searching for Bluetooth devices.
5. Once it finds this Bluetooth system, it should show the B40 and start connecting to it.
6. If the audio player requires a code to connect to the Bluetooth subwoofer/amplifier, enter "2288".
7. Bluetooth should complete the connection and show that the B40 is now connected to your device.

8. MAINTENANCE OF ACRYLIC AND FIBERGLASS SURFACES

8.1 ACRYLIC SURFACE MAINTENANCE

This beautiful acrylic surface is one of the glossiest and highest quality surface materials. The surface does not allow dirt to accumulate and is more stain resistant than other plastic materials. It is so durable under normal use that it will retain its beauty with minimal maintenance. So, just follow these simple steps to maintain a high shine and elegant look.

⚠ **Use common household non-abrasive cleaners for most cleaning jobs.**
(e.g.: LYSOL BASIN, TUB & TILE CLEANER, GLASS PLUS, MR.CLEAN and TOP JOB, or mild cleanser. IVORY LIQUID) Rinse well and dry with a clean cloth.

⚠ **Never use abrasive cleaners. (Abrasive cleaners with grains)**

⚠ **Do not allow the acrylic surface to come into contact with products such as acetone (nail polish remover), nail polish, dry cleaning solution, nail polish thinner, gasoline, pine oil, etc.**

⚠ **Remove dust and dry dirt with a soft, damp cloth.**

⚠ **Clean grease, oil, paint and ink stains with isopropyl alcohol.**

⚠ **Do not use razor blades or other sharp tools that may scratch the surface.**

Minor scratches can be removed by applying a thin coat of automotive paste wax and lightly buffing with a clean cloth.

8.2 FIBERGLASS SURFACE MAINTENANCE

For cleaning fiberglass surfaces, it is recommended to use mild cleaning agents, such as soapy water or special cleaning agents for fiberglass. The use of abrasive cleaning products such as sand or scouring pads must be avoided as they may damage the surface. It is also recommended to avoid using chemicals such as chlorine or flammable acids, as they can damage the fiberglass surface.

⚠ **When cleaning, we recommend using soft cloths to avoid damage to the surface.**

⚠ **It is also recommended to clean the fiberglass surface frequently, as surfaces left untreated for a long time can become dirty and more difficult to clean.**

8.3 EXCESSIVE USE OF CHLORINE Osmosis

Damage caused to fiberglass fabric

⚠ **The process of osmosis can occur in fiberglass fabric if liquids of different concentrations are present and the fabric is in contact with them.**

⚠ **This can cause water absorption into the structure of the fiberglass fabric, which can cause the fabric to become brittle and weak.**

Osmosis is a natural process that can occur in fiberglass tubs if there is a difference in the concentration of liquids inside and outside the tub. This can cause water to soak into the fiberglass, which can eventually weaken the structure of the fiberglass fabric. To prevent osmosis in a fiberglass tub, it is important to maintain the proper chemical balance of the water, including the pH level and the amount of chlorine and other chemicals. Additionally, ensuring the tub is properly sealed and protected from outside fluids can also help prevent osmosis.

⚠ **It is also important** to regularly maintain and inspect the fiberglass surface for any signs of water absorption or blistering, as well as any cracks, as these are signs of osmosis. If you suspect osmosis has occurred in your fiberglass hot tub, it is important to address the problem as soon as possible to prevent further damage and ensure the structural integrity of the hot tub.

⚠ **It is also important** to have a proper water treatment system to prevent mineral deposits that can damage the fiberglass surface.

The use of chlorine, an overdose of fiberglass fabric, can cause damage, because chlorine can cause a chemical reaction with the fiberglass, which can weaken the structure of the fabric. Chlorine can also cause discoloration or staining of fabric.

⚠ It is recommended to use only special cleaning products for fiberglass fabric and avoid using chlorine products.

8.4 OVERHEATING AND HIGH WATER TEMPERATURE

When fiberglass fabric overheats, it can suffer many negative effects. The most common effect is that the resin that binds the fibers can start to break down and lose its strength. This can make the fabric weak and brittle, making it more prone to cracking or tearing. Additionally, overheating can cause the fiberglass fabric to distort and lose its original shape, making the fabric less effective for its intended purpose. In addition, if the temperature is too high or for a long time, the fabric may change color, turn yellow or even melt the surface.

In some cases, heat can cause the fabric to shrink or distort, making it difficult to use. Overheating can also cause fibers to become more porous, reducing their resistance to water and other liquids.

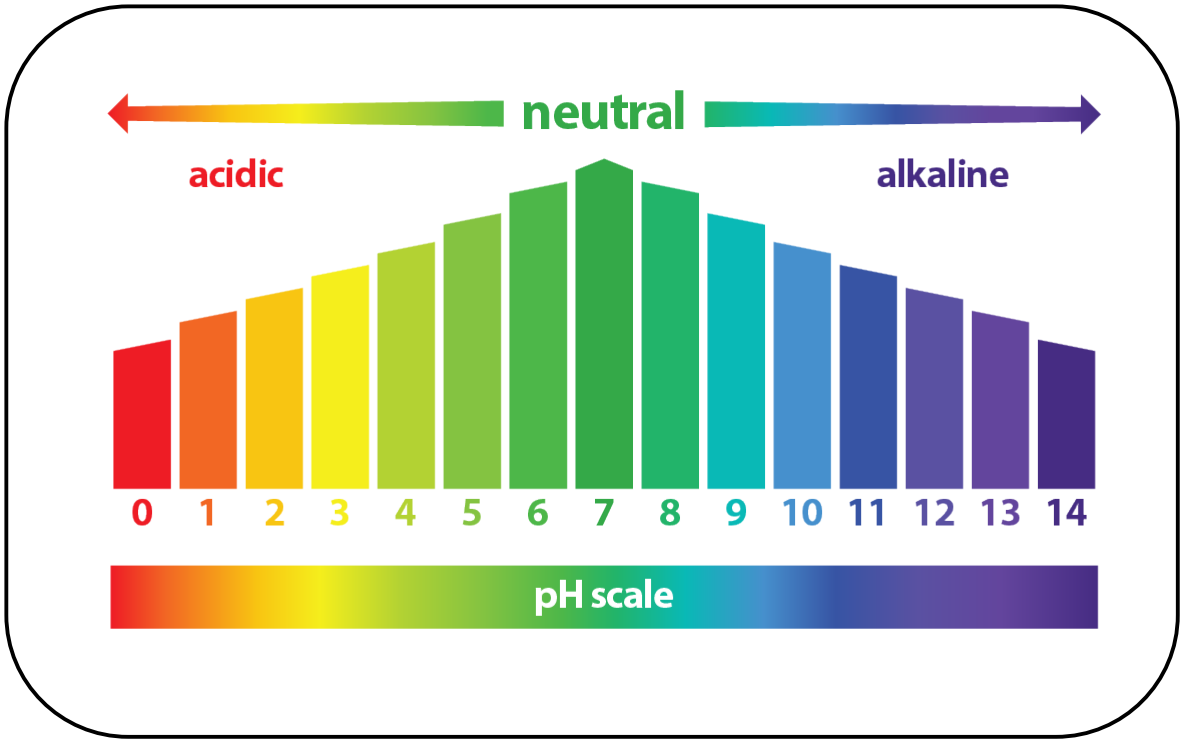
It is important to note that fiberglass fabric has a limited tolerance to high temperatures, so it is important to monitor the water temperature to avoid these problems.

IMPORTANT - The heating temperature of fiberglass tub heaters cannot rise above + 45 ° C, because higher temperatures can damage the fiberglass alloy and the paint of the liner.

The recommended water temperature for maintenance is + 37 ° C.

8.5 DETERMINATION OF PH LEVEL OF WATER

The pH level of water is a scale for measuring the acidity or alkalinity of water, with values ranging from 0 to 14. A neutral pH level is 7, with numbers below 7 indicating acidic water and numbers above 7 indicating alkaline water. The pH level of water can be determined using special pH meter devices or pH indicators. If the pH level of the water is not good, it can be adjusted with the help of chemicals.



The high pH level of the water can damage the fiberglass fabric, especially if the water is stored in an outdoor hot tub for a long time. The liner can be damaged by alkalis and ionizing agents. If the pH level of the water is too high, it can cause oxidation of the fiberglass fabric, which can cause problems, i.e. splitting, cracking of the fiberglass fabric. The protection of the glass fabric from high pH levels is the regulation of the water to a normal level of "7" pH level. This can be done using chemicals.

IMPORTANT – if your stove's metal grade is "430" you are NOT allowed to use any chemicals in your outdoor hot tub (salts, chlorine, etc.) it can damage your wood stove.

We recommend using PH level testers in your outdoor hot tub if you use chlorine, salt or other chemicals in the water.

8.6 COVER MAINTENANCE

To properly maintain an outdoor hot tub cover, you should:

- **Clean it regularly:** use a soft cloth and water to clean the cover from dust and dirt. Avoid using harsh chemicals as they may damage the cover.
- **Protect from the sun:** the sun can cause the cover to fade and weaken over time, so it's best to cover it when not in use.
- **Keep it dry:** after closing the lid, make sure it is completely dry to prevent mold and fungus growth.
- **Check for tightness:** check the seal around the lid to make sure it is tight and secure.
- **Check regularly for damage:** check the cover for cracks, cracks or other damage and repair or replace it if necessary.
- **Store it properly:** always keep the outdoor hot tub cover in a dry and cool place and avoid direct sunlight.

⚠ If the thermo cover is fully covered when your hot tub is full of water, make sure the water level in the tub must not reach 15-20 cm to the top, because with more water, there is a risk that the cover will attract a lot of moisture and become very heavy!

⚠ After the lid has attracted moisture, it is necessary to dry it as soon as possible so that it does not develop mold or an unpleasant smell, as we mentioned above!

⚠ During the summer, leave the lid half open to avoid unpleasant odors inside!

⚠ We suggest protecting the cover from snow, ice and other winter weather conditions with a tarpaulin. After the accumulation of snow layer to clear.

⚠ Make sure the unused cover is securely attached and locked with clips or rubber bands to prevent it from being blown away by strong winds.

9. IMPORTANT SAFETY INSTRUCTIONS

9.1 SAFETY INFORMATION

Prolonged immersion in hot water can cause hyperthermia.

Hyperthermia occurs when the body's internal temperature is several degrees above the normal body temperature of 37 °C (98 °F). Symptoms of hyperthermia include drowsiness and elevated core body temperature.

Symptoms:

- Lack of awareness of impending danger.

- Inability to feel heat.

- Failure to recognize the need to get out of the Spa (Outdoor Hot Tub).

- physical inability to get out of the Spa (Outdoor Hot Tub).

- Fetal damage in pregnant women.

- Loss of consciousness and danger of drowning.

⚠ **The use of alcohol, drugs, or medication in an outdoor hot tub can greatly increase the risk of hyperthermia.**

⚠ **Before bathing, check that the temperature of the bath is comfortable for you.**

⚠ **Do not use electronic devices in the bathroom to avoid electric shock.**

⚠ **For safety reasons, do not leave children unattended in or near the hot tub while the water is in the hot tub under any circumstances!!!**

⚠ **Eating in the bath can cause technical problems, for example, food residues can clog the filters, cause disturbances in the water level or changes in the pH level, thus causing technical problems in the bath. Snacking is prohibited!**