

TopSpa XS

User's Guide



Installation of electrics: TopSpa XS requires a 230V, 1x16A connection with a 2.5mm² wire cross section via a main breaker switch. A residual current device must be engaged. It is also recommended that a timer (clock) with an on/off switch be installed to ensure that the filtration systems runs about 4-6 hours per day. E.g. 2 x 2 hours, or 2 x 3 hours, depending on what is most appropriate for the user. Meanwhile, the electrical heater also turns on if the temperature drops below the set value. **NOTE!** Timer may not be installed on the incoming phase ahead of the safety switch. See wiring diagram for the correct setup. It's important that a qualified professional check that everything works before the bath is used. It is therefore practical to fill the bath as shown on page 6, and that the startup is done according to the instructions on page 7. See page 11 for suitable foundations.



WARNING!

- A. Make sure that the product is not damaged in transit during unpacking.
- B. The electrical installation should only be done by qualified persons.
- C. Read instructions carefully before installation begins.
- D. We are not responsible for product malfunction or damage if the instructions are not followed during installation.
- E. Do not connect power before the installation is complete.
- F. **NOTE!** If the hot tub is built into a terrace or similar, the construction shall be built in such a way that all sides are freely accessible for servicing. Outer paneling and eventual insulation must be easily removable
- G. Read the technical instructions before installing the bath
- H. Read the users instructions before using the bath
- I. Do not leave children in the bath without supervision
- J. Do not sit with your back or head against the skimmer
- K. If automatic dispensers (floating, etc.) are used, careful adjustment should be made to avoid incorrect dosage. Follow the recommendations in our instructions.
- L. The circulation pump also generates heat and if it is running a long time it can raise the temperature by several degrees in one day when the tub is well insulated.
- M. Check the quality of the water, as well as temperature and function, regularly, don't leave the spa unmonitored for long time periods.
- N. If the water's drained and the bath isn't in use during cold weather, then all screw connections are to be left open so that any water can drain out. Drain the bubble system using the blower.
- O. When filling water and the temperature is below freezing, the pumps and pipes are also cold. Take this into account and fill with warm water first, or warm up the space with an appropriate fan heater before filling with water.
- P. A frost guard can be placed in the technical area to protect against damage from freezing in cold weather if the equipment fails.



HEATING

Expect a heating rate of 2 degrees per hour. If the temperature of the water is around 6 degrees when starting, it will be around 37 degrees after 15 hours. After that the water temperature is kept according to the thermostat. Filtration and water hygiene products will keep the water clean.

Note! Even if the thermostat is set higher than the current water temperature, it will only turn on when the water circulation is active. The heater has a built-in flow sensor incl. micro switch that rely on a certain flow of water to be activated and provide power to the heater. If there is not enough circulation (e.g. filter is not cleaned, the water level is too low), then the heater won't start. It can also lead to the overheating protection (covered by a black plastic nut) activating and the heater stops working. Resetting is done by loosening the nut and depressing the red pin.

CIRCULATION PUMP

We recommend that the circulation pump be controlled via the timer as described on the first page. It is also possible to control it manually via the buttons on the sides of the "control box". This presupposes that the timer (if used) is activated. On delivery hose intended for circulation pump is labeled "Pump". **NOTE!** If you turn off the pump manually with the button it will not start again even with the timer set! The button must be in the "on" position for the timer to function correctly.

BLOWER FOR BUBBLE SYSTEM

This is also controlled via one of the buttons on the side of the "control box" (located above the box with pumps). Which button controls what function is determined by how the buttons are connected to the pump and blower (via pneumatic tubes). On delivery the hose intended for blower is labeled "Blower". When the water is drained, the water in the hose is removed by starting the blower for a few seconds. **NOTE!** When air passes the blower this and the air will be heated up. In order not to blower and plastic parts will overheat the recommended maximum running time is 20 minutes / session with at least a 30 minute break until the next use. If the temperature in the blower rises too high it will stop automatically when the automatic thermal fuses are tripped.

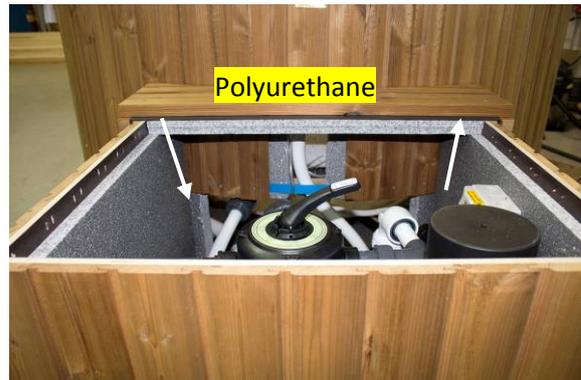
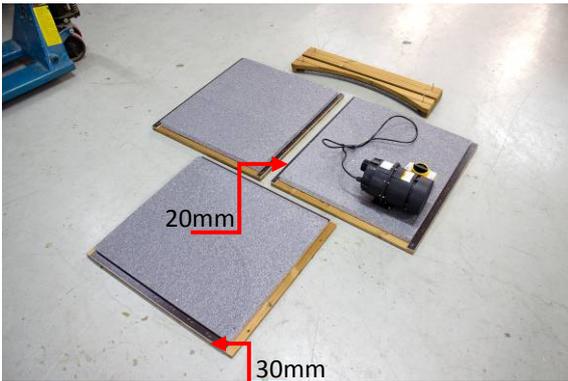
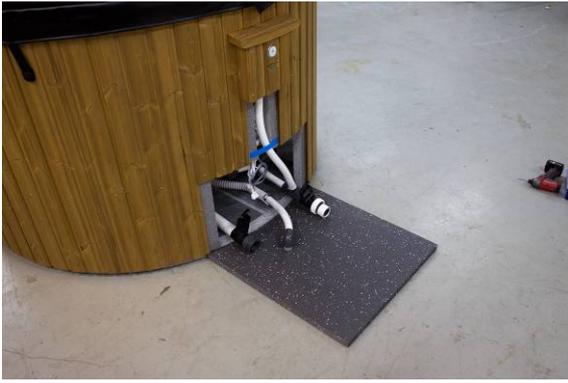


GOOD TO KNOW!

The bottom of the bath has a small bend upwards which will be flat and lie against the support plate on the frame in the bath when filled with water. When draining the bottom rises up again and that makes all the water flow out to the edge and then out through the drain valve.

- Read the warning text on the first page. It is important to know and follow the information therein.
- Note that a bath when filled with water and being used by 6 people, weighs approx 1800kg. Take this into account when installing the bath in a terrace or similar and make sure the structure is strong enough.
- The "push-up" drain valve is primarily used to flush out the last of the water. Most of the water is drained in the way described on page 8 under Draining / replacing water.
- When the circulation pump is running, the water is being filtered. If the temperature of the water is lower than what is set on the thermostat, the water will be heated as well. If the pump is running all the time (not controlled by a timer) that leads to the water temperature is raised regardless of what the thermostat for the electrical heater is set at.

Installation of filtration- / heating unit



Apply polyurethane foam on the inside of the box where it meets the sides of the hot tub (sides and above)

Summer use

Remove the insulation under the lid to the "technical box" when outside temperatures exceed 5 degrees Celsius.



Winter use

During cold weather, below 5 degrees Celsius, the insulation should be installed.



Shut off valve procedure

Closing: The valve shaft has two "pins" that fit into grooves in the lock, press down firmly and lock by twisting the handle clockwise. It is important the pins are first firmly seated into the grooves, or the lock can break.

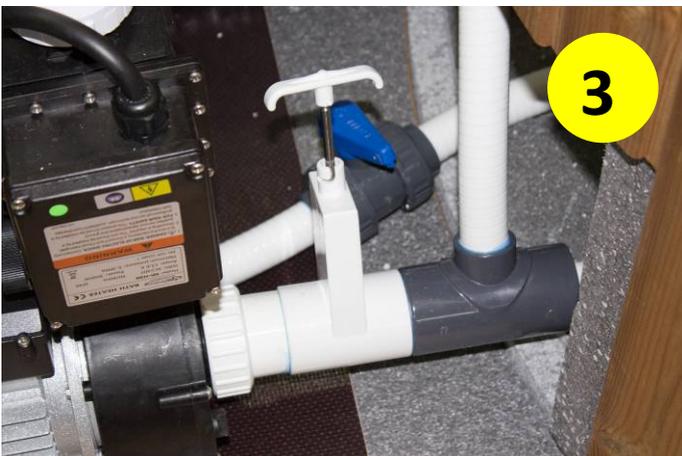
Opening: Twist the handle counter-clockwise and pull the handle upwards. To ensure the valve remains in open position you can use a clip to prevent it closing.



Press the handle down into the grooves



Twist the handle (clockwise) to close the valve completely

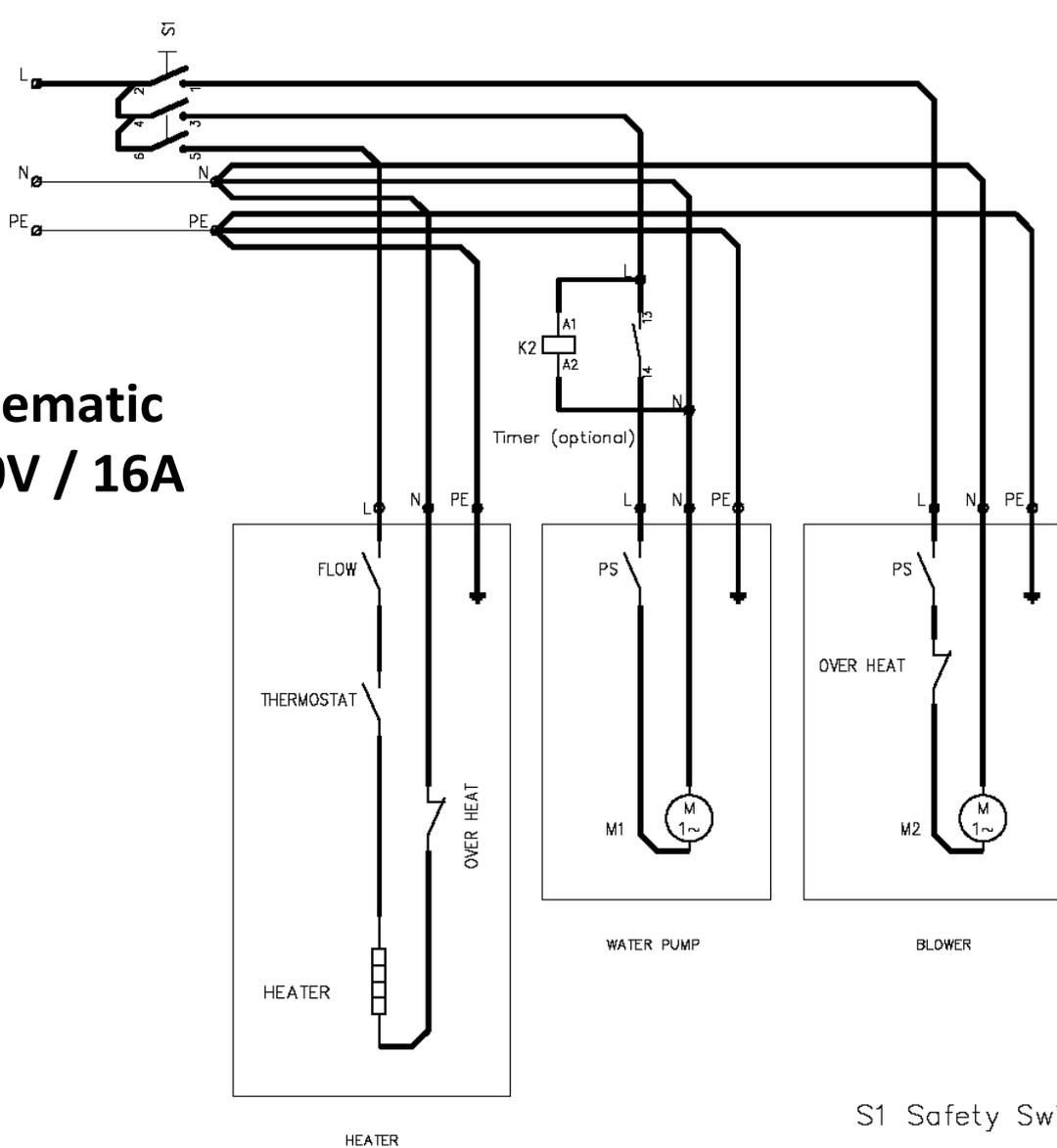


Open position

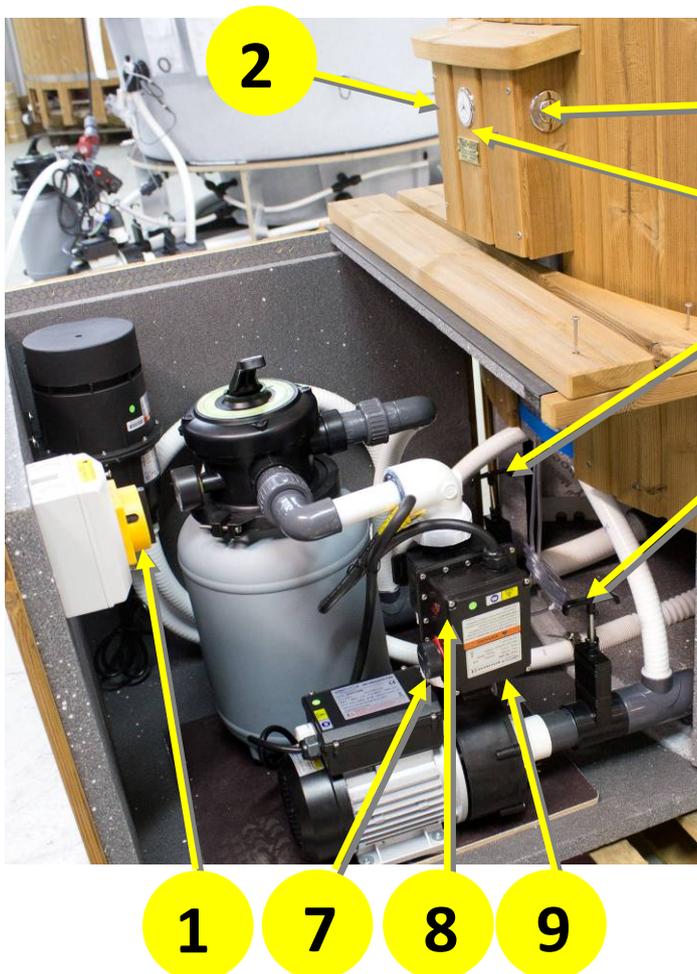


A "locking clip" can be added to hold the valve in open position.

Schematic 230V / 16A



S1 Safety Switch
PS Pressure Switch



1. Safety switch
2. Pressure switch #1
3. Pressure switch #2
4. Lighting (accessory)
5. Valve (suction side)
6. Valve (pressure side)
7. Thermostat
8. Indicator lamp
9. Overheating protection

Note that the bubble hose has both check valve and drain valve, in order to prevent water from entering the blower.

Filling of water



RECOMMENDED WATER LEVEL

During filling of water a garden hose or similar can be used. Fill to the level that the pictures show.

NOTE! During the filling, valves 5 & 6 have to be closed, [page 5](#). See [page 4](#) to how they are maneuvered.

SUCTION IS ADJUSTED BY MOVING THE REGULATOR UP OR DOWN. MOVE DOWNWARDS TO DECREASE SUCTION.



Water consumption and energy!

Filling is generally done with a garden hose connected to the water mains. If another water source is used, take special consideration regarding the potential for bacteria. Read the instructions on water hygiene and the use of chemicals.

Remember that the water level will rise by approx. 5 cm when an average-sized person sits in the Hot Tub. This is equivalent to 80 liters of water. The water level should be 20 cm below the edge when empty. The total amount of water to heat up is subsequently reduced by ca. 320 liters. If the spa is completely filled, this amount of water will flood over the edges when the users sit down.

Filter / Startup

Limitation of usage:

Your TopSpa XS is delivered with the filtration system containing FilterBalls as filtration media. Read the instructions, see paragraph 5!

- Max water temperature: 40 °C.
- Max water flow: 20000 l/t.
- Type of sand: 0,4 – 0,8 mm.
- Min. water temperature: 4 °C.
- Max distance from pool/spa 10 meter.

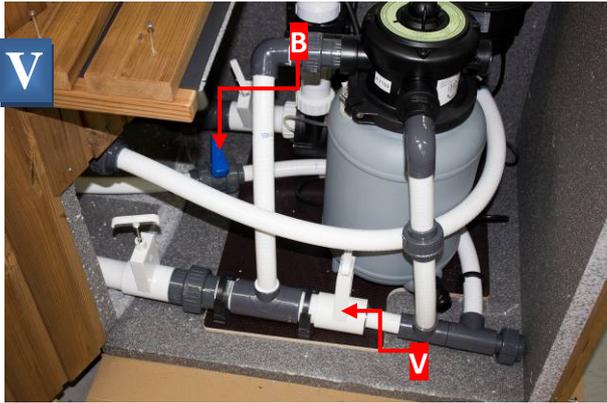
IMPORTANT! Always shut down the pump when changing positions on the 4-way valve!

<p>1. Filtration</p> <p>Normal function. The water circulates through the filter and returns clean.</p>	
<p>2. Backwash</p> <p>The water passes through the filtration media in the opposite direction and dirt runs out through the backwash pipe. Run this mode when required, or when the pressure dial goes over 0,7 bars. Use a 20-25 liter bucket to drain the dirty water into, drain until filled.</p>	
<p>3. Rinse</p> <p>This function helps to avoid dirt being carried back in the water. The dirty overflow water is backwashed from the backwashing pipe.</p> <p>Run for about 5 seconds. Run after every backwash.</p>	
<p>4. Winter time If the filter is not in use during winter time, remove the filter and bring it to a place where the ambient temperature is above freezing. NOTE! Remove the filter balls when the spa is drained for a long time. Otherwise, mold may grow in them.</p>	
<p>5. Filtration media (FilterBalls)</p> <ol style="list-style-type: none"> 1. Fill up the filter balls to the level that is shown in the picture. 2. Install the valve body. 3. Follow the instructions on startup below. <p>NOTE! Points 1-2 have already been completed upon delivery.</p> <p>Startup</p> <ol style="list-style-type: none"> 1. Place valve in position Backwash. 2. Open valves 5 and 6, see page 5. 3. Set the 4-way valve in normal mode FILTRATION when the starts to come out and start the circulating pump. 	 

Draining / replacing water

Open the cover where filter and pump (s) are. For draining the water, a valve is installed near the filter container. See picture (V). Remove the back wall of the box and connect coupling (6) whose outer diameter is 32 mm. Open the valve (V and B) and drain the water. When the water is drained the coupling part and the back wall is put back.

When the spa is drained from water for a longer period, or if there is a risk of freezing, should also the circulating pump and massage pump (if included) be drained. The blower should also be started up for a few seconds, to drain hoses and valves.



NOTE! If the filter is not in use during winter time, remove the filter and bring it to a place where the ambient temperature is above freezing. Remove the filter balls when the spa is drained for a long time. Otherwise, mold may grow in them.

Cleaning of Filter Balls



Close the valves (red arrows), unscrew (green arrows) and remove the filter canister and drain the water.



Remove the filter balls and rinse.



Squeeze the filter balls to get out the dirty water. Use for example Filter Cleaner to dissolve the dirt.



Let the filter balls soak for a couple of hours then squeeze out the dirty water. Replace the water and repeat. Return the filter balls to the container.

NOTE! Remove the filter balls when the spa is drained for a long time. Otherwise, it can start forming mold.

Water hygiene is important!

Be careful with the water hygiene - A bathing water will never be cleaner and safer than what one makes it. Personal hygiene and effective disinfection are two things that are important for clean bathing water. The water you use should also be taken into account. Bacteria thrive in warm bath water and the safest is to add bactericidal agents before taking a bath. It effectively prevents the growth of bacteria.

If bacteria had time to develop it require significantly greater amount to incapacitate them. There are many different brands, but what is important is to use bactericidal agents for the "right" temperature. Agents for swimming pools are not suitable for warmer water and vice versa.

Good personal hygiene before taking a bath -Keep in mind that a person who has not washed him/herself before will pollute the water 200 times more than somebody who has taken a shower. Sun lotion, skincare products, soap should not get into the water and that's why we suggest to take a quick shower before enjoying a bath.

Effective disinfection- Filtration has the advantage that water can be used longer. Still it is important to add some bactericidal agents. Filtration prevents the accumulation of impurities but not the growing of bacteria. Everyone who is taking a bath is adding micro organisms to the water which are a blend of different kind of bacteria.

Important! When bathing, large quantities of microorganisms, which is a mixture of different bacteria, is added to the water. Bacteria can have adverse health effects and therefore you need to work with e.g. chlorine as well. If the chlorine levels are too high then the pH-value will be increased and the water will have a strong smell. The chlorine levels should not exceed 1.5ppm and pH 7.0-7.6. For bromine the level should not exceed 2.0ppm and the pH should be 7,0-7.8. If automatic dispensers (floating, etc.) are used, careful adjustment should be made to avoid incorrect dosage. Follow the recommendations of the manufacturer of the spa you are using.

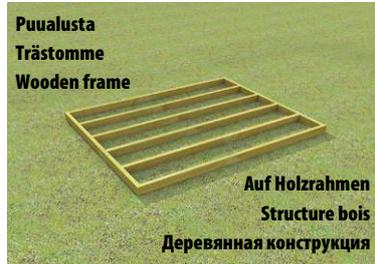
5 easy advice for maintaining good water hygiene if you have got a tub or a spa with filtration system.

1. Take a shower before you get into the hot tub.
2. Add some bactericidal agents before and after taking a bath.
3. Check the pH-value and balance it if necessary.
4. Add active oxygen, about 30 ml, every week
5. Clean the filter media frequently and use sufficient filtration time. About 4-6 hours per day.

Maintenance instructions

Thank you for choosing a product from SpaDealers. We try to do our utmost to ensure that you will be satisfied with our products. If you have any queries, please contact us at +358-(0)10-239 5600 or info@spadealers.fi

Foundation and placement options



Place the Hot Tub or spa on a stable base and not directly on the ground.



It is also good to remember that a bath filled with water and 6 users weighs approx 1800 kg. When installed on a terrace or the like, this must be taken into account for the strength calculation.

Maintenance

The wood on the outside must be treated with wood oil at least once a year to maintain the color. The oil must be suitable for hard wood or heat treated wood (hard wood) and with UV protection. A slight nuance (brown) also provides a better UV protection.

Untreated

Oiled

Untreated > 3 years



Cleaning the hot tub The hot tub is rinsed out with clean fresh water. If the water has been in it for a long time, it should also be scrubbed with soap.

Managed correctly, you will bathe in a SpaDealers hot tub or spa for many years.

We wish you many wonderful bathing days.