


HOT TUBS USE AND MAINTENANCE

A line drawing of a hot tub with a vertical support column and a ladder. The hot tub is oval-shaped with a thick rim and a central circular area. The support column is cylindrical and has a ladder attached to it. The drawing is in a simple, clean style with no shading.

WARNING!

**Read and follow all instructions
carefully before installing
and using this product!**



**VIKING
INDUSTRIER**

QUALITY, FLEXIBILITY, SHORT TERMS

WARNING!

Read and follow all instructions carefully before installing and using this product!

- Initially water will leak, but within 3-5 days the wooden tub will swell and become completely tight.
- Fire and hot water may lead to serious injuries! **Never leave children and/or those with disabilities unattended!**
- Cleaning and maintenance should not be done by children without supervision.
- Our hot tub cannot be used by children under 8 years old and persons with reduced physical, sensory or mental capabilities.
- **Keep this product more than 2 m away from any swimming pool** (for France 3.5 m), to prevent children from climbing on it and accessing the pool.
- **Never heat the hot tub when it is empty!**
The hot tub could catch fire and irreparable damage may occur!
- Our standard heaters are made from 304 and 316-grade stainless steel. **If chlorine, bromide, saltwater or other chemicals are to be used the heater's steel grade must be upgraded to 316-grade stainless steel.**
- **It is very important to empty water from the heater at temperatures below zero.**
- All information is based on past experience and to the best of our belief. Local circumstances and other conditions must be taken into consideration by each individual hot tub user – according to use.

USAGE

WATER FILLING

Your wooden hot tub should be filled with water after purchase. Water will initially leak – but in 3-5 days the wood will swell and become watertight. **Bear in mind that any wooden hot tub will always have some degree of leakage. This is completely normal and natural.**

Hot tubs made of **polypropylene** or **fiberglass** are completely watertight.

We would recommend keeping water inside permanently during the warm season. Should the hot tub need a repair or cleaning it should not be kept without water longer than necessary to avoid shrinkage.

When preparing for bathing, the tub should be filled-in with water to around 10 cm below the top edge, taking into account the number of people that are going to use it.

Before heating the water, make sure that the inside heater is submerged in water to around 20 cm below the footing of the chimney.

USING THE INTERNAL/INTEGRAL HEATER

			<p>■ DO NOT FILL WITH WOOD BEYOND TWO-THIRDS OF THE HEIGHT OF THE HEATER.</p>
<p>USE ONLY FIREWOOD OR BRIQUETTES.</p>	<p>DO NOT USE SALTY WATER.</p>		
<p>THE INTERNAL HEATER CAN NOT BE LIT UNTIL THE WATER LEVEL IS 20 CM BELOW THE TOP OF THE HEATER.</p>		<p>DO NOT LET WATER OUT WHILE HEATER IS STILL HOT.</p>	
<p>■ BEAR IN MIND THAT YOU MUST NOT LIGHT THE HEATER UNTIL THE WATER LEVEL IS CORRECT – OR THE DIRECT HEAT WILL DAMAGE THE TUB.</p> <p>■ DO NOT ALLOW THE TEMPERATURE TO EXCEED + 55C ° IN A FIBERGLASS TUB – THE HIGH TEMPERATURE WILL PERMANENTLY DAMAGE THE FIBERGLASS RESIN.</p>			

USING THE EXTERNAL HEATER

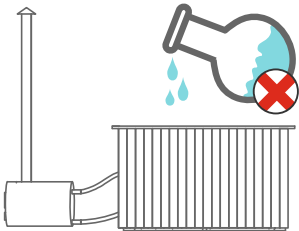
- For external heater models, the water should both cover and fill the inlet and outlet pipes.
- Bear in mind that you must not light the heater until the water level is correct – or the direct heat will damage the tub.

<p>EXTERNAL HEATER CONNECTION HOSES MUST BE NOT FOLDED.</p>		<p>DO NOT LET WATER OUT – OR EMPTY THE TUB – WHILE THE HEATER IS ON – OR STILL HOT.</p>
<p>CORRECT CONNECTION</p>	<p>WRONG CONNECTION</p> <p>If connection hoses are folded, water cannot circulate!</p>	

HEATING

Our standard heaters are made from **304-grade** stainless steel.

For the "1.9 M WOODEN HOT TUB AL STANDARD KIT" we use an **Aluminium heater**. This type of heater is made of a specialised corrosion resistant marine aluminum of high thermal conductivity (AlMg3). This type of heater also has a special flow and combustion supporting air intake channel for better efficiency. **This heater unit is suitable for use with seawater, chlorine, bromide or other chemical water additives.**



If **chlorine, bromide, saltwater or other chemicals** are to be used, the heater steel grade must be upgraded to a **316-grade stainless steel heater!**

THE TYPE OF METAL			
	304 stainless steel	316 stainless steel	Aluminium heater
Saltwater, chlorine, bromide, or other chemicals use			

NEVER heat the hot tub when empty! The hot tub could catch fire and irreparable damage may occur!

Firewood or briquettes can be used for heating. **Avoid using coal fuels and fresh, wet/green wood.**

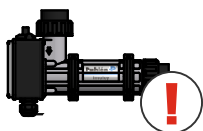
The ideal temperature for outdoor bathing is 30 - 36°C. The time to reach the desired temperature depends on external conditions. In summer, heating to 36°C takes around 3 hours. In winter, it takes around 5-6 hours. You can control the water temperature by using a thermometer and changing the fire intensity with the heater air intake control. Once you have reached your desired temperature, close the regulator and the water temperature will not increase. We recommend stirring the water occasionally to maintain even heating. A paddle is supplied for this purpose.

HOT TUB WITH ELECTRIC HEATING

When the hot tub is filled with the right amount of water, you can fire up the electric heater. First, activate the circulation pump with a button that is on the panel of the tub. After, it is time to adjust your desired temperature. The temperature is controlled by swirling dial located on the heater. The temperature reaches the target (the desired heat level) electric heater shuts off automatically. When the water cools down, the heater turns itself on automatically to heat the water up to your adjusted temperature.

To completely turn off the heater, turn the circulation pump off (circulation pump is activated/deactivated with the same button on the panel of the tub).

HOT TUB WITH ELECTRIC HEATING



**POURING OUT OF THE HOT TUB,
THE ELECTRIC HEATER **MUST BE SWITCHED OFF****

IMPORTANT – do not turn on the heater if the water level hasn't yet reached its recommended level (30 cm space from the water and the top of the hot tub).

NOTE: electric heater usage during sub-zero outdoor temperatures:

- Fill the hot tub with water to the recommended level.
- After the hot tub is filled with the recommended amount of water, set the heater roller to your desired temperature.

SAND FILTER

Sand water filter is being built next to the tub and connected by two hose through which filter water in the tub.

**IN THE
COLD
SEASON:**



**WHEN AIR TEMPERATURE IS BELOW
0 DEGREES, IT'S NECESSARY TO DRAIN
WATER FROM THE HOT TUB AND
DISCONNECT SAND FILTER!**

In cold season, sand filter you should disconnect and keep it in warm place. Do it every time, after using hot tub!

If the tub is kept at a constant temperature, the filter can be used in sub-zero temperature.

These steps need to be made during the cold season, when the outside temperature is below zero, so the circulation-pump won't freeze.

BATHING

It is recommended that you shower or bathe before using the hot tub, to ensure that you prolong the life of the water.

Bathing supplements may cause problems with water quality. Those bathing supplements which are biodegradable can be used. This avoids fungal infestation or the growth of algae. Common herb extracts may be added as well as a few drops of essential oils (grapefruit, juniper or fennel that boost your metabolism and lymph circulation) to the water if desired. Herbal therapy is beneficial for your body and senses - as well as emotions.

ASH CLEANING

We suggest removing the ash from the wood burning heater each time a fire is built. This it is not necessary when the fire has burned down completely. The ash can be removed with a scoop and poker which can be ordered as an accessory.

MAINTENANCE

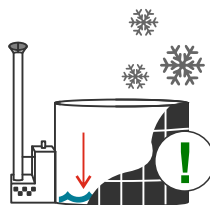
WATER DRAINING IN WARM/COLD SEASONS

- The hot tub has an outlet valve. This enables water to be directed to a specific place (for example, for watering your garden, as long as the water is not chlorinated). Fiberglass hot tubs with an integrated heater have an external water tap installed under the heater.
- Fiberglass models with different heaters, polypropylene models, and wooden models are all equipped with a syphon and plug by default .
- Only empty your hot tub when the water has cooled - as the water in the heater will also have cooled.
- The heater may be damaged by continuous heat if not surrounded by water at all times. During the warm periods the wooden tub must be kept full of water to prevent wood becoming too dry which, in turn, may cause it to leak; water must be removed only for cleaning reasons or when changing the water – and then only for short periods.
- Should you find the wood has slightly dried, the tightening bands must be tightened before refilling.
- During cold periods the tub should be kept empty as icing can cause serious damage.
- In winter there is enough humidity in the air to provide protection against drying out.
- It is very important to empty the heater of water when temperatures fall below zero.
- In cases where the heater has frozen – do not attempt to start it until thoroughly thawed.

HOT TUBS USAGE:



**DO NOT
WEAR SHOES
IN THE HOT TUB.**



**YOU MUST DRAIN
THE WATER FROM
THE HOT TUB IF THE
TEMPERATURE FALLS
BELOW FREEZING.**

DO NOT FORGET: the hot tub should be covered when not in use. This protects the water from animals and debris. It also prevents small children from drowning and other accidents.

INSIDE CLEANING

- Wood cleaning agents should not be used on the internal parts of the hot tub!
 - For wooden hot tub maintenance it is recommended that the inner surface be cleaned with soap, soda or similar products - and a brush. Rinse thoroughly afterwards.
 - Polypropylene and fiberglass tubs have clear advantages when it comes to cleaning. There is less build-up of bacteria - and they are easier to clean it out, disinfect and leave without water for long periods - without the risk of drying out or cracking (especially in winter).
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WOOD IMPREGNATION

- At least once a year the hot tub must be protected to give it more durability. The outer surface of the hot tub should be treated with linseed oil or a wood supplement oil/wood glaze. These oils penetrate the wood and allow for greater resistance in certain weather conditions, especially during hot summer days when the wood becomes very dry. This will also keep the wood from rotting.
 - **Do not forget: the inside of hot tub, safety fence and benches, can become grayish in the course of time.**
 - The inner surface of the hot tub should not be treated as the wood must be able to absorb water to enable the wood to swell and keep the integrity of the hot tub.
 - **The exterior wooden panels can be painted.**
 - To validate your guarantee and ensure the longevity of the product, **it is essential that the hot tub be treated with a wood preserver within the first three months of assembly.** Thereafter, treat the product in accordance with the manufacturer's recommendations and local building regulations. A paint specialist should be consulted for advice on paints and varnishes which are suitable for use on unprocessed softwood of the type used for your hot tub.
The paint or varnish manufacturers instructions should always be followed so as not to damage your hot tub.
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MAINTAINING TIGHTENING BANDS

We advise regular checking of the bands, on at least a monthly basis. All bands should be adjusted if necessary. When first filling your hot tub with water, leaking may occur. This is normal until the wood is saturated and the joints seal naturally. Once this takes place, the leaks will stop.

POLYPROPYLENE FRAME

The hot tubs made of special plastic – polypropylene - do not require as much maintenance as those made of wood. Our plastic tubs are made of 5 mm polypropylene (some parts – from 8 mm), which is extremely durable, frost-resistant, and easy to clean. Compared to other plastics this is one of the lightest and most environmentally friendly substances.

It has UV protection and is resistant to weathering, which ensures the longevity of its use externally. As the exterior is made of wood – these tubs look just as beautiful as the wooden ones, but are far more hygienic. Polypropylene tubs do not need to be continuously filled with water as they do not overdry, as wooden tubs do, so can be freely drained of water. The plastic tubs can be cleaned with ordinary household baths or pool cleaners. You should remember that if you choose a chlorine treatment you must upgrade to a 316-grade steel heater to preserve your hot tub.

FIBERGLASS HOT TUBS

- Fiberglass stands out because of its integral qualities (unlike plastic or wooden hot tubs, fiberglass is moulded in one piece, not made from separate parts).
 - Fiberglass tubs have convex benches which feel more comfortable in a hot tub. Convex benches also help to save up to 500 l of water - at the same time heating the water more quickly.
 - Fiberglass hot tubs are easier to clean and do not require any maintenance.
 - Fiberglass has UV protection, and is resistant to weather conditions, ensuring its longevity in open air conditions.
 - It is easier to install SPA and LED systems into a fiberglass hot tub than into wooden or plastic hot tubs and it is great new innovation that you can offer your clients.
 - The fiberglass tubs are cleaned with ordinary household cleaning products. You should remember that if you use chlorine treatments, you must upgrade to a 316-grade steel heater to preserve your hot tub.
 - **Do not allow the temperature to exceed + 55c ° in a fiberglass tub – the high temperature will permanently damage the fiberglass resin.**
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SPA SYSTEMS - THEIR USE AND MAINTENANCE

When installing and using electrical equipment, basic safety precautions should always be followed, especially those shown below.

- **WARNING!** Turning the spa equipment switch off does not prevent risk of shock. Power in any of the electrical equipment area is still live until the main breaker is shut off.
 - **ELECTRICAL SHOCK.** Do not permit any electrical appliance, such as a light, telephone, radio, television, extension cords or any plug-in devices, etc. within 10-30 cm of SPA. **Never operate any electrical appliances inside the hot tub or when you are wet. Do not attempt to plug in or unplug this product while standing in water or when your hands are wet!**
 - **EQUIPMENT MAINTENANCE.** **Never perform any work on the spa electrical equipment.** Any problems should be referred to a licensed electrician.
 - **Do not turn power on to the spa without water in the hot tub.** Serious damage may occur.
 - Our water hydro massage systems do not require any special maintenance. Do not use any commercial cleaners or disinfectants. For sanitation, periodically clean with mild soapy warm water only.
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■ If you purchased the SPA product from us directly, the equipment has been installed by our own professional electricians – you do not have to self-assemble or adjust anything. **If you have any questions regarding the equipment, please contact us.**



IMPORTANT – in the cold season, DO NOT turn the air system on unless the temperature is above 30C°.

AIR MESSAGE SYSTEM. Air massage system structure: air compressor 700W power, 12 pcs of air jets - mounted in the wall of the tub, as well as other installation materials. Air massage on/off is located on the panel of the hot tub.



IMPORTANT - After releasing the water from the hot tub, keep the air massage active for 30 seconds to remove water from the system.

WATER MESSAGE SYSTEM. Water massage system structure: water compressor 1.5 HP power, 6 pcs water jets, other installation materials. Water massage on/off is located on the panel of the hot tub. Water massage system has an additional controller to manage the water flow "spray power".

COMBINED SPA SYSTEM. Water massage system structure: air compressor 700W power and water compressor 1.5 HP power, combined water / air jets - installed in the tub wall. Combined massage system has 2 switches in the tub panel. One of them turns on / off the air compressor, the other switches on / off water compressor. You can enable air massage or water massage separately, or both devices together.



AIR BUBBLE SYSTEM, HYDRO MASSAGE SYSTEM AND LED LIGHTS SYSTEM IS CERTIFICATED BY EU Council Directive.

FOUNDATION

A stable, even, and sustainable space is needed to set up a hot tub. Gravel, loose chippings, or quarry tiles (flagstones) are recommended surfaces. A ground with humus or patches of grass is not suitable. Drainage will help with stability - depending on the local conditions. A concrete foundation is not necessary. It is important that air is able to circulate under the hot tub so damp is able to evaporate.

AS ALWAYS, THE MAIN RULE IS - ENJOY!



QUALITY, FLEXIBILITY, SHORT TERMS