

**SKARGARDS REGAL
INSTRUCTION MANUAL**

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I. INTRODUCTION

Congratulations on your new Swedish Hot Tub and thank you for placing your trust in Skargards.

Before you start using it, we wish to highlight the importance of reading through this instruction manual in order to ensure correct installation, use and maintenance of the hot tub. Please remember to keep the manual in a safe place for future use.

Everyday life can feel hectic in these modern times. Eventually, we all need to unwind and recharge our batteries. Where we come from, we've found that nothing does the trick like a wood-fired hot tub, surrounding ourselves with the ones we love and reconnecting with the natural world. We are confident that you will feel the same way and that this marks the beginning of many memorable moments with family and friends.

As the years go by, just remember: we are always a phone call or an email away, readily and happily available to help. Our contact information can be found at the end of this instruction manual.

Warmest regards,
Skargards

2. SAFETY

Prior to installation and whenever using this product, please take careful note of the following important safety precautions.

2.1 Personal safety

For your own safety, please follow these guidelines.

- When heating the hot tub, do not touch or get too close to the stove and the flue which can become very hot.
- Never leave the hot tub unattended when it is filled with water. If you must leave the hot tub, ensure that the fire has been extinguished and that the hot tub is secured with a hard top cover. If you do not have a hard top cover, ensure the hot tub is completely empty of water.
- Always keep a certified fire-extinguisher next to the hot tub.
- Children should not go near the hot tub without adult supervision and should never be left unattended in or near the hot tub.
- Always enter and exit the hot tub slowly, as the plastic surface of the vat may be slippery.
- Never jump in the hot tub or subject it to other unintended loads, as this may cause personal injury as well as damage to the hot tub.
- To prevent dehydration and/or heat-related illness when using the hot tub, keep the bathing water temperature below +39°C and drink water regularly. Always check the bathing water temperature with your hand before entering.
- Pregnant women, infants and anyone with health conditions requiring medical care should consult a doctor before using the hot tub.
- The hot tub should not be used under the influence of alcohol, narcotics, drugs and/or medication.
- The hot tub is designed for an intended maximum number of persons. A group exceeding this limit may cause personal injury and/or damage to the hot tub. See Chapter 5 to find out the maximum safe capacity of your hot tub model.



For your own safety, please note that failure to comply with these precautions may result in injury or drowning.

2.2 Fire prevention

If the hot tub is located near a building, it must be set up to prevent any fire hazard for the building. Avoid placing flammable materials or loose objects in a way that poses a risk of fire when the stove is burning. Also remember that the flue becomes very hot, and that sparks can escape from the fumes or the hatch. In case of doubt, contact a specialist e.g. a chimney sweeper or a fire prevention expert.

Product alteration

Any alterations to the product can pose a fire hazard. Alterations represent all changes that do not correspond to our maintenance instructions e.g. stuffing the space between the vat and the exterior paneling with isolation material. The warranty is voided if any alterations are made to the product without the written consent from Skargards.

Floor protection in front of the stove

If the hot tub is used on a flammable surface e.g. a wooden terrace or grass, a sheet should be placed in front of the stove hatch to protect against sparks and embers (Figure 2.2). It can be made of metal, stone or any other fire-resistant material.

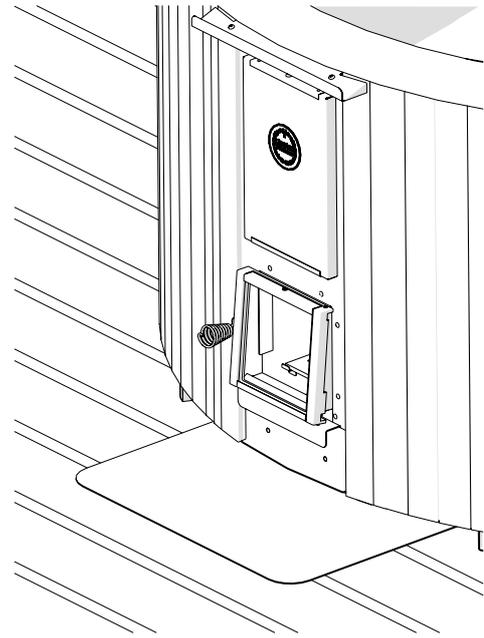


Figure 2.2



Install the hot tub so that neighbouring property will not catch fire due to sparks. Dry grass poses an especially high risk.

3. INSTALLATION

This section details the correct installation procedure for the hot tub. Be careful when moving the product, as it is quite heavy.

3.1 Choice of location

Select a location based on the safety precautions detailed in the previous section. Note that, for future maintenance work or warranty claims, it can be necessary to raise the hot tub on edge. In certain cases, the hot tub as a whole must be returned to the factory. Keep this mind when selecting a location or installing on a terrace. Please also see section 4.1.

3.2 Preparation of bearing surface

The hot tub should be placed on a level surface made of concrete, stone or wood. It's important that all the supporting bars of the base frame lay on the surface, including the circular support bar in the centre (Figure 3.2 A). All support bars are marked in black (Figure 3.2 B, Page 9). Depending on the model and the number of people using it, a hot tub filled with water can weigh just over 2 tons. This highlights the importance of preparing an appropriate surface to carry such a load. An even surface also ensures proper air circulation under and throughout the wooden paneling (Figure 3.2 C, Page 9). This minimises moisture build-up. Make sure that the bearing surface is completely balanced.

3.3 Removal of packaging

Once the hot tub has arrived, remove the horizontally-wrapped black plastic. Do not cut the white strap. Take out the cardboard in the vat as well as the flue stowed in the base frame. Leave the hot tub standing upright on the pallet.

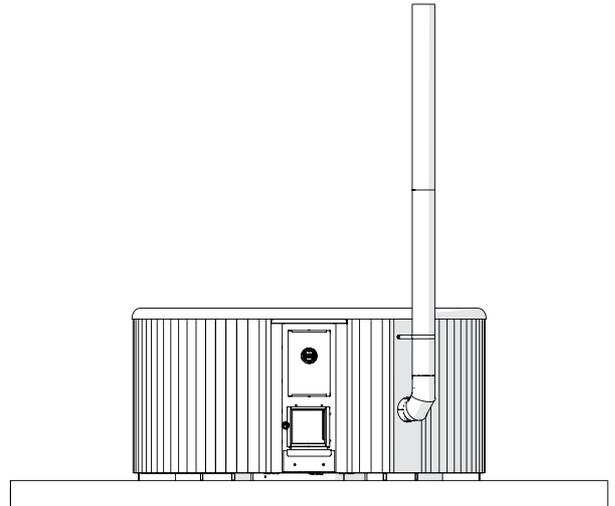


Figure 3.2 A

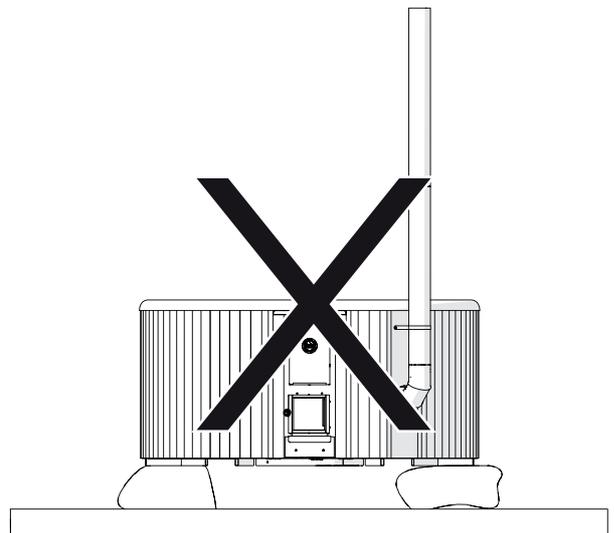


Figure 3.2 A-2

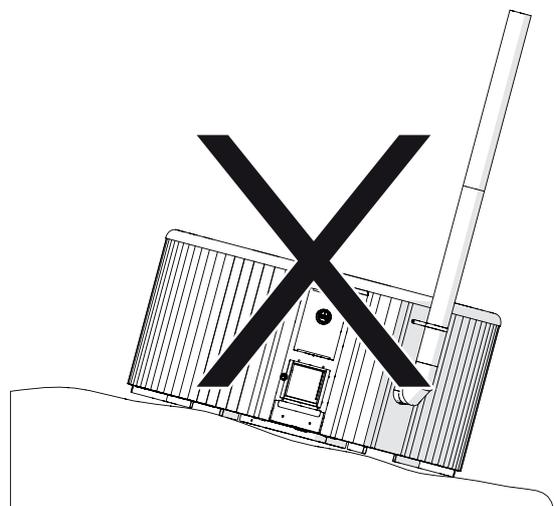


Figure 3.2 A-3

3.4 Inspection of items

The Skargards Regal is delivered with the following items.
Verify that they are all on hand.

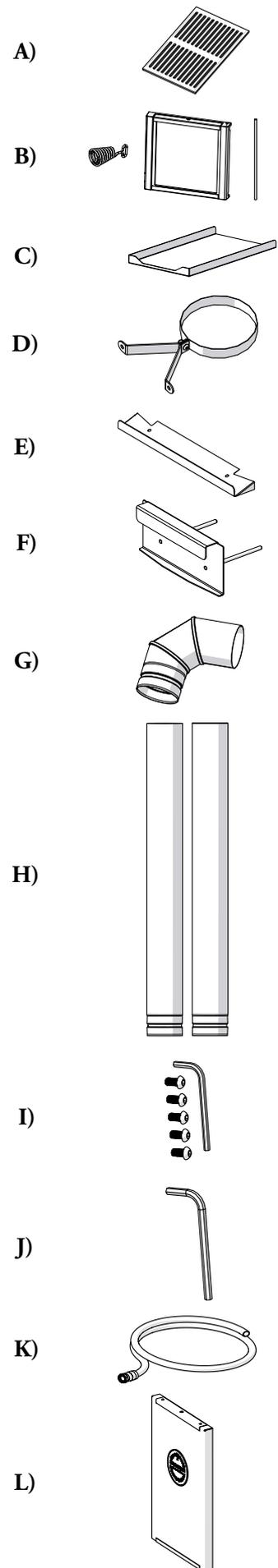
- A) Grate
- B) Stove door, handle and door pin
- C) Ash pan
- D) Flue pipe support
- E) Splash guard
- F) Draft regulator
- G) Flue pipe elbow
- H) 2 x flue pipe (1 m)
- I) 5 x screws, 1 x Allen key (4 mm)
- J) 1 x Allen key (5 mm)
- K) Draining hose for bottom valve (2 m)
- L) Service hatch

3.5 Hose clamp tightening

Before tilting your hot tub off the pallet, check the four clamps on the hoses between the stove and the vat and make sure they are tight. Vibration during transport can cause them to loosen and eventually let water leak through. Use the 5 mm Allen key.

3.6 Hot air pump

This section is for hot tubs with a bubble jet system. If your hot tub is not equipped with one, you may skip to the next section. Make sure the hose is properly connected and tightened to the hot air pump. Vibration during transport can cause it to loosen. If need be, tighten the connection by hand, but do not use pliers.



3.7 Placement of hot tub on surface

Once the previous sections have been completed, the next step is to transport the hot tub to the selected location. If you choose to do this with a truck, ensure that the hot tub is securely attached to the pallet with the white straps. If you opt to carry the hot tub due to local circumstances, you must cut off the white straps and tilt the hot tub down on its support bars (Figure 3.2 B). The hot tub can be carried in its horizontal position by a group of physically strong individuals. The lower edge of the wooden paneling serves as a good gripping point. Remember that the hot tub is heaviest on the stove-side. Once the hot tub is positioned on the bearing surface, you may remove the remaining black plastic and cardboard.

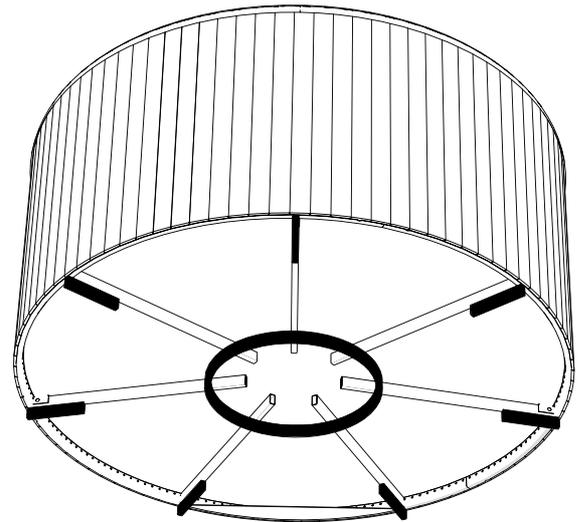


Figure 3.2 B



Never roll the hot tub due to risk of causing serious damage.



Be careful with heavy loads. Use a proper lifting technique and do not exceed your physical limits. Persons with any history of back problems should avoid lifting entirely.

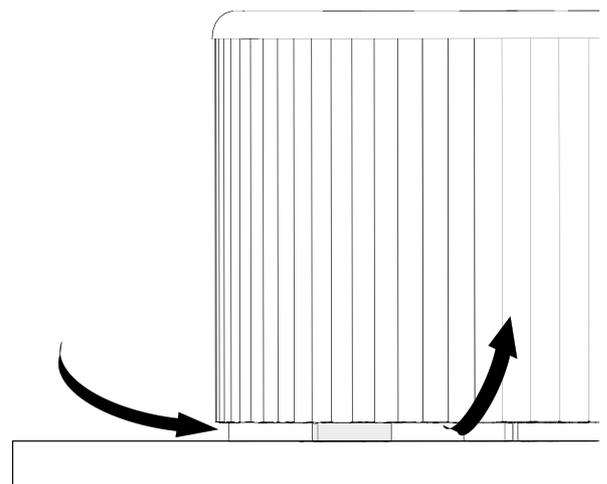


Figure 3.2 C

3.8 Wood treatment

The exterior paneling of the hot tub is made from heat-treated wood. It is an eco-friendly process that gives the wood weather-resistant properties as well as its distinctive red-brown colour.

If the wood is exposed to sunlight for extended periods, the colour will fade, which is why it should be promptly treated with UV protection varnish. If the colour has already started to fade, you may use a brown-pigmented varnish to renew the colour of the wood.



To preserve the colour of the wood, treat it immediately.

3.9 Installation of individual parts

Stove grate

Turn the flat side of the grate upwards. Push the back end through the draft damper opening and lift it upwards into the stove against the rear wall. Lift until you can set down the front end of the grate on the two support pillars located on the inner front side of the stove. Finally, set down the back end on the two pillars in the back of the stove (Figure 3.9 A).

Stove door

Use two screws to attach the handle to the door. Hold the door closed against the stove, with the handle on the left. Align the locating holes with one another on the right. Hold the door pin with the “ears” facing down, then insert it from below through the top locating holes, and finally through the bottom holes. (Figure 3.9 B). Open the door carefully to verify that the pivot stick is correctly installed.

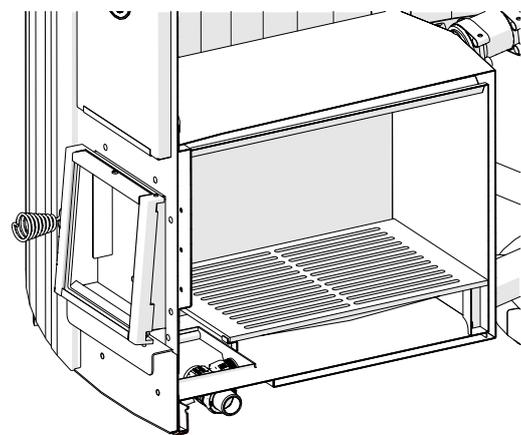


Figure 3.9 A

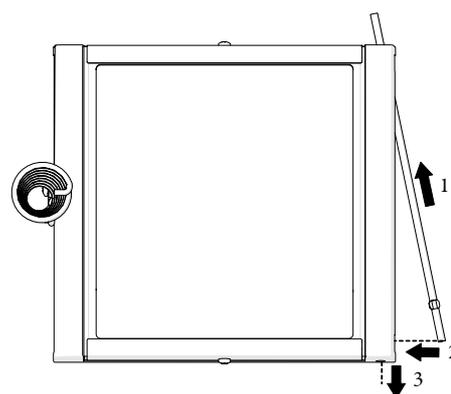


Figure 3.9 B

Ash pan & draft regulator

Insert the ash pan into the stove with the flat end against the rear wall. Then, insert the draft regulator into the two holes on the lower front side of the stove.

Flue pipe & support

Insert the narrow ribbed end of the elbow into the opening on the right side of the stove, then attach the first 1m flue. Slide on the support bracket and fix it to the paneling (Figure 3.9 C) without tightening the screws. Adjust the bracket so that it is level. Tighten the flue clamping screw first, then tighten the two screws on the paneling. Add the second 1m flue.

Service hatch

There is a hook at the bottom of the hatch*. Hook it upwards into the eyelet above the stove door. Screw the top of the hatch to the stove using one of the supplied screws (Figure 3.9 D).

*All Skargards Regal hot tubs produced before May 2017, and most produced during May 2017, are equipped with a service hatch that is secured with a screw at the bottom of the hatch instead of the hook.

Splash guard

Use two screws to securely attach the plate above the stove (Figure 3.9 E).

3.10 Cleaning the vat for the first time

Upon delivery, the hot tub may have collected dust during transport or production. Before using it, it is important to clean the surfaces of the bathing area. Leave the bottom valve open and rinse the entire hot tub with water. Finish by wiping the entire surface.

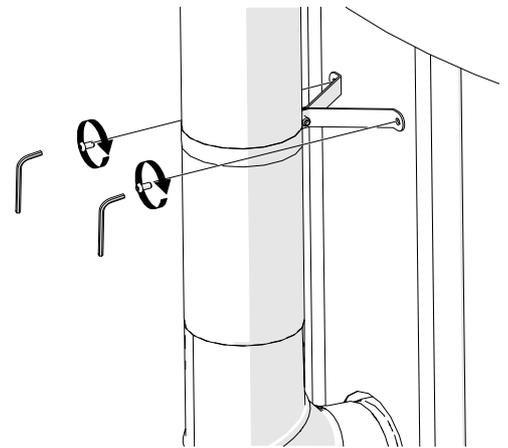


Figure 3.9 C

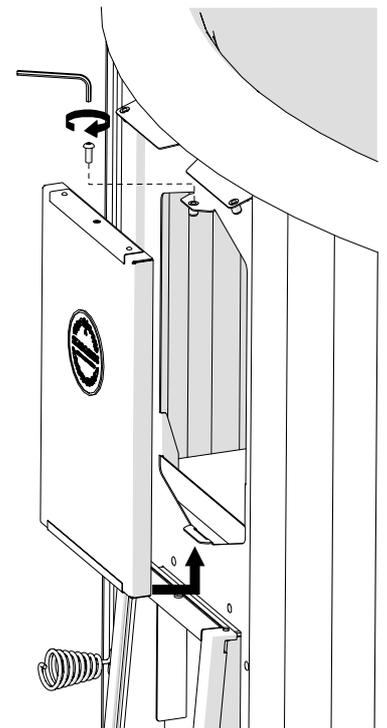


Figure 3.9 D

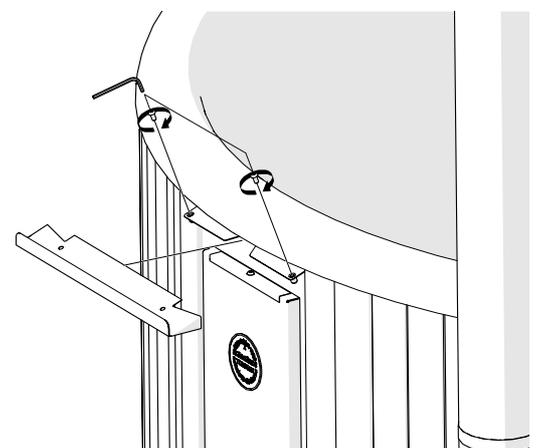


Figure 3.9 E

4. USE

This section details the correct procedure for regular use and maintenance of the hot tub. Read carefully and follow the instructions to maximise the lifespan of your hot tub.

4.1 Maintenance accessibility

For certain types of maintenance, the hot tub must be tilted on its edge. See section 3.1. Before raising the hot tub, place several layers of strong cardboard under the base where the steel frame is reinforced. Lift the hot tub opposite of the reinforced side (Figure 4.1). To return the hot tub to its original position, see section 3.7.

4.2 Water cleanliness guidelines

For hot tubs that aren't equipped with a sand filtering system, we recommend changing the bathing water after every use. If this is not possible and you would like to reuse the water on multiple occasions, there are still a few easy tips to maintain water hygiene.

- **Take a shower beforehand**

A person who did not shower before entering will make the water significantly dirtier. Sunscreen, skin lotion and similar products should not find their way into the hot tub.

- **Use an antibacterial product**

Bacteria can easily thrive in warm water. To effectively prevent this, we recommend applying an antibacterial product before even using the hot tub for the first time. The effort is much greater once the bacteria has already spread. There are many various antibacterial products on the market. Skargards recommends an active oxygen treatment. Use the proper dosage as indicated on the package. Since July 2014, all Skargards hot tubs are appropriate for use with chlorine.

- **Clean with vacuum and sieve**

Dirt that is visible to the eye normally presents the lowest danger to health. Use a vacuum head to clean dirt at the bottom of the vat and a pool sieve to catch free-floating debris. If your hot tub is equipped with a filtration system, most of the work will already be taken care of for

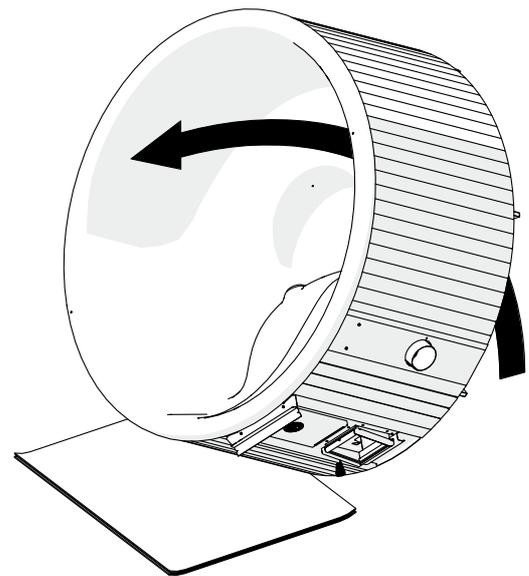


Figure 4.1

you. Please refer to the separate instruction manual for the sand filtering system.

Following the above-mentioned tips can allow for multiple sessions with the same hot tub water. Note that circumstances such as the weather, the number of sessions and the amount of people can influence how long the water can be reused hygienically.

Use of saltwater

All parts of the hot tub that come in direct contact with the water are designed for use with saltwater. Therefore, using saltwater poses no problem. However, note that salt deposits can form and may cause discolouration. Be sure to wipe exposed surfaces regularly to remove salt deposits.

4.3 Heating preparations

Water level

When heating, the hot tub must always be filled with water, at a minimum level of 10 cm over the upper stove circulation opening (Figure 4.3). If the water level is any lower, there is risk of causing the stove to overheat which presents danger of fire.

Flue and rainwater

Make sure that the flue is correctly installed and that no rainwater is in the stove.

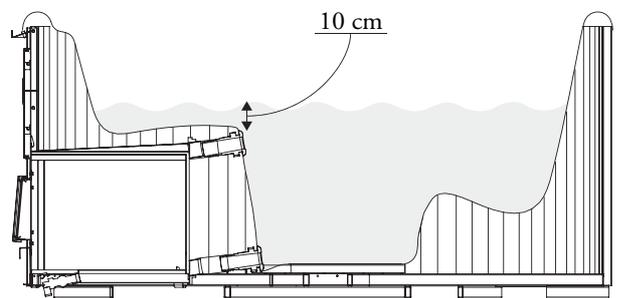


Figure 4.3



When heating, the stove door and flue reach very high temperatures. Be very careful, especially when children are close by.



The hot tub stove is designed for heating with wood. Use of any other materials such as coal can damage the stove and present danger of fire.

4.4 Heating the hot tub

Before proceeding to heat the hot tub, make sure you have read section 4.3. The Skargards Regal has a circulation stove that allows the water to cycle through the hot tub. The heat creates a pressure change between the double walls which pulls the cold water through the bottom opening. The warm water is simultaneously pushed out the top opening and flows back into the hot tub. The circulation occurs naturally without any electrical pumps. Do not attempt to increase the circulation by artificial means e.g. by connecting an electrical pump. An accelerated circulation will prevent the stove from reaching its functional temperature and in turn lead to tar build up. The resulting tar reduces stove performance and can be difficult to remove. It can also lead to a higher smoke temperature which can damage the flue and the vat.

Firing up the stove

To start the hot tub stove, follow these instructions:

- Take a handful of dry birch wood chips and lay them on the grate in the stove.
- Cut two or three wood logs into smaller strips. Lay them on the birch chips.
- The stove door can be left open for maximum air circulation until the desired bathing temperature is reached.
- Pour firelighting liquid on the wood, let it soak in for a few minutes, and then carefully light the fire.



Avoid lighting the fire with paper because the ashes can come out through the flue and then fall into the hot tub.



Never place wood on the ash pan or in front of the grate. Burning should only take place on the grate in the combustion chamber, otherwise there is risk of material damage or personal injury.

Accelerating the heating time

For the shortest possible heating time, use split, dry birchwood. Regularly add small amounts of small wood. Large amounts of wood added to the stove at once can decrease the working temperature and create an uneven combustion, which prolongs the heating time. As a guideline, the combustion chamber can be filled up to 3/4 with wood.

Adjusting the temperature

The recommended water temperature for the hot tub is +39°C. When the bathing water is 2-3 degrees from the desired temperature, reduce the airflow using the draft damper and add a small amount of wood. The temperature will rise just a few degrees before stabilising. If the water is already too warm, add cold water or snow.

Heating while bathing

Close the draft damper. This slows the burning and reduces its intensity. The temperature of the bathing water will slowly rise by only a few degrees or remain constant, depending on the amount of wood in the stove. If the bathing water is already too warm, add some cold water.

4.5 After using the hot tub

Sweeping the stove

Make sure that the fire is completely extinguished and that there are no remaining embers. Pull out the draft damper and set it aside. Use a long-shafted scraper to remove the ashes from the grate in the ash pan. If the ash pan is still hot, do not lay it directly in snow or water, as intense cooling can cause deformation. The ashes should always be stored in a non-flammable container with a tight-fitting lid e.g. a metal bucket. The container should be placed on a fire-proof surface. To clean the flue, remove it and use a long, rounded brush. Remember that a clean flue significantly accelerates the heating time.

Draining the bathing water

Before draining the water, make sure that the ashes have been completely removed as described in the previous section. Under no circumstances should the bathing water be drained as long as there are still embers in the stove, otherwise the stove can overheat and cause a fire. The bottom drain of the hot tub is located under the ash pan in the stove. Remove the draft damper and the ash pan, then open the bottom valve. Remember that a large amount of water is being drained from the hot tub and make sure that it cannot damage the surrounding area.



Never leave the water in the hot tub in winter. Ice build-up can damage the stove and even render it unusable.

Wintertime use

After using the hot tub, once the fire is extinguished, the water circulation ceases. It is therefore important to drain the water at subzero temperatures to prevent ice formation between the double walls of the stove. The amount of water in the stove is relatively small and freezes faster than the water in the hot tub. Ice formation in the stove can lead to damage and, in the worst case, render the hot tub unusable.

4.6 Cleaning the vat and the stove

Drain all the water from the vat and then leave the bottom valve open. Clean the dirty areas on the vat with a damp cloth. Clean between the stove walls by spraying water through both the lower and upper circulation openings. Repeat until there appears to be no more dirt in the stove. This works without additionally using abrasive cleansers. If you have underwater lighting or bubble jets, carefully clean the nozzles, buttons and lamps.



Never use steel wool or other tools that could scratch the vat. Dirt can easily settle in the scratches and lead to discolouration or even cracks.

4.7 Stove door maintenance

The stove door is made of cast iron. To prevent corrosion, it should be treated with black polish on a regular basis. If corrosion has already started, it should be removed using steel wool before the black polish is applied. The black polish can normally be found at a local hardware store.

4.8 Long-term storage

If the hot tub is to be left unattended for an extended period of time, empty it completely and leave the bottom valve open. Remove the top of the flue to avoid wind exposure. Remove the stove door and store it in a dry place.

4.9 Substructure maintenance

This maintenance requires that the hot tub be raised upright, as detailed in section 4.1. The substructure of the hot tub is made of galvanised steel. Rust may appear in certain local conditions. If so, the rust can be removed with a steel brush. If bare steel is exposed, it should be treated with zinc paint or another rust-preventing product. Verification and maintenance should be carried out annually.



Make sure the bottom draining valve is left open to avoid ice build-up.



Strong winds can loosen and damage the flue. In case of stormy weather, remove the upper meter of the flue.

5. ACCESSORIES

This section describes the proper use of Skargards accessories which are optional and not part of the standard equipment. Accessories not included in this section come with their own separate instruction manual.

5.1 Underwater lighting

Connect the power cord to a weather-proof outlet with grounding. Inside the hot tub, there is an on/off switch for the underwater lights.

5.2 Bubble jet system

Connect the power cord to a weather-proof outlet with grounding. If your hot tub is also equipped with underwater lighting, both systems are connected using the same power cord. Inside the hot tub, there is an on/off switch for the bubble jets. The air compressor has a built-in hot air unit. The time required to heat up the air of the bubble jet system depends on the outdoor conditions.

Important Note: wintertime use of bubble jets

In every jet nozzle, there is a ball valve. If water is left in the hot tub for an extended period of time and the bubble jet system is turned off, water can seep through the ball valves into the hose. Near the compressor, there is a valve that prevents water from entering. Water therefore accumulates in the hose connecting the jet nozzles. In subzero temperatures, the water will freeze and the bubble jet system will be rendered unusable until it thaws. Regular use of the bubble jet system will blow the water out of the hose and reduce the risk of ice formation. When the bathing water has been drained, turn on the jets for 30 minutes to ensure no water is left inside. The built-in timer will shut off the system after 30 minutes.

Hot air pump overheating

If water in the bubble jet system turns to ice, do not try to melt it using the compressor due to risk of overheating. The compressor is equipped with overheating protection that shuts off the compressor for 30 minutes after overheating. During this time, it cannot be turned back on. Note that overheating can also occur when one of the ball valves gets stuck in the jet nozzle which leads to insufficient air flow. Read the Solution section (below) if a ball valve gets stuck.

Replacing the balls in the jet nozzles

The balls in the jet nozzles are wearing parts. After a certain time, deposits can form on the balls and cause them to get stuck. This limits or even completely prevents airflow through the affected nozzle. In this case, the ball needs to be either replaced or cleaned using a steel wool. Skargards recommends replacing the ball valves once a year.

Solution: cleaning and replacing the ball valve

- Loosen the caps on the jet nozzles with a slotted screwdriver (Figure 5.2). Press the screwdriver into one of the four slots on the side of the nozzle cap.
- Remove the old ball valves with a magnet (e.g. a magnetic screwdriver). Clean the balls with some steel wool and re-insert them, or simply replace them with new ones. Screw the caps back onto the nozzles.

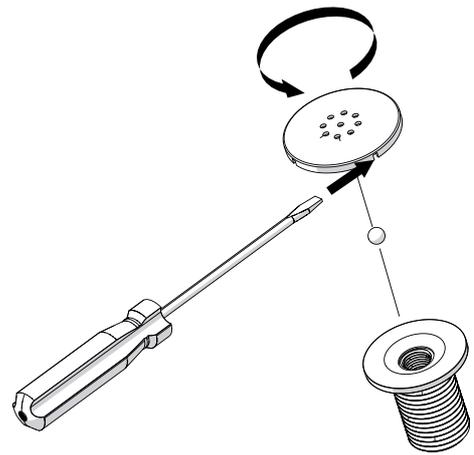


Figure 5.2



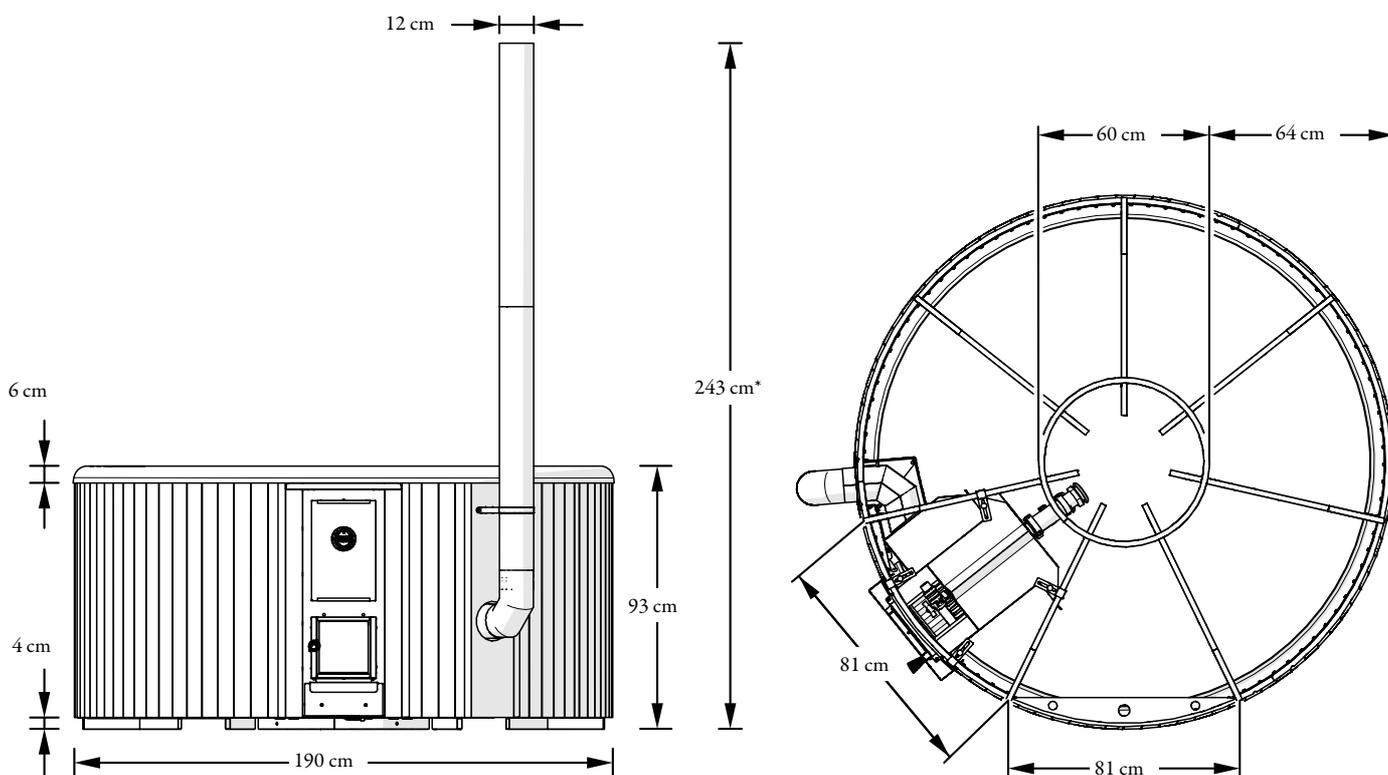
The bubble jet system is primarily for summertime use. If you would also like to use it during winter, please carefully read the “Important Note” above.

6. SPECIFICATIONS

Model	Regal 190
Capacity	5-7 Persons
Exterior diameter	190 cm
Interior diameter	171 cm
Tare weight	165 kg
Full water capacity	1200 Liter
Seat depth	65.5 cm
Vat depth	84 cm
Edge height	93 cm

Material

Stove	acid-resistant steel
Flue	fine-polished rust-proof stainless steel
Vat	glass fibre reinforced plastic
Wooden paneling	heat-treated pine wood



All Skargards Regal hot tubs produced before January 1st 2017, and some produced during the first half of 2017, have a total flue height of 257 cm.

Model

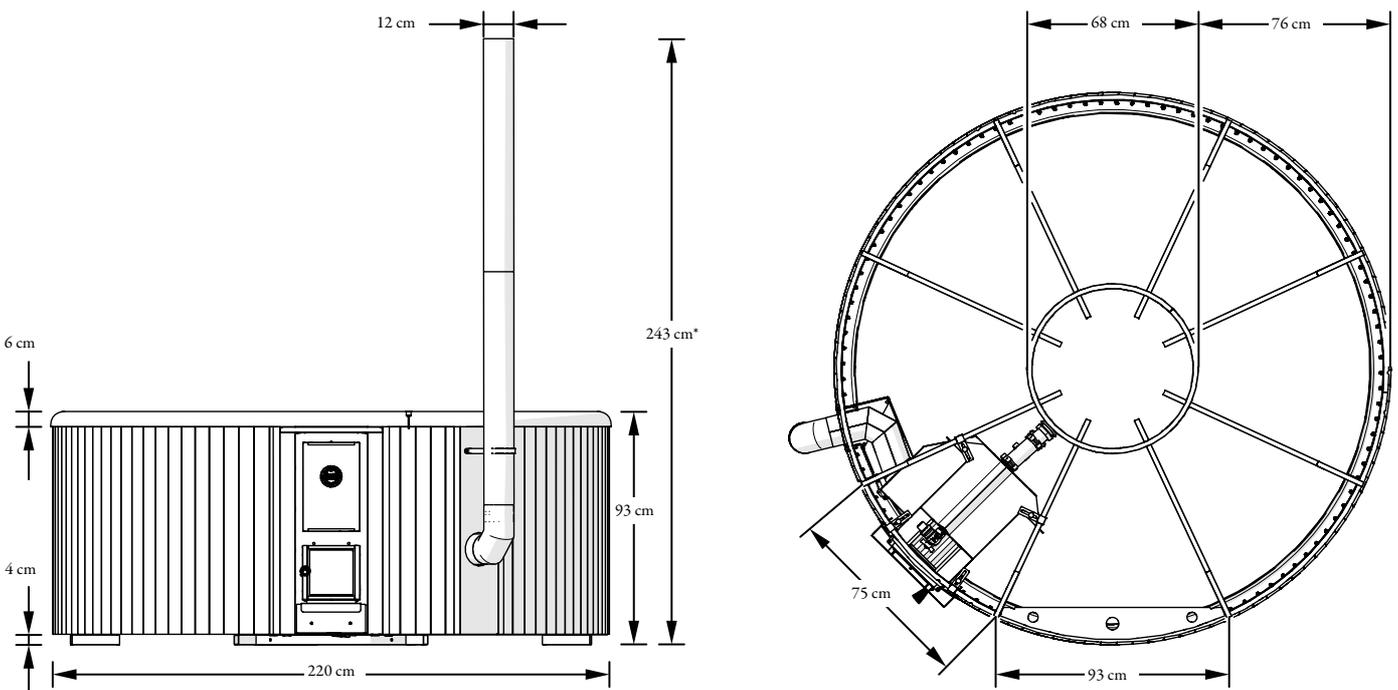
Capacity
Exterior diameter
Interior diameter
Tare Weight
Full water capacity
Seat depth
Vat depth
Edge height

Regal 220

8-10 persons
222 cm
200 cm
195 kg
1700 L
64.5 cm
84 cm
93 cm

Material

Stove acid-resistant steel
Flue fine-polished rust-proof stainless steel
Vat glass fibre reinforced plastic
Wooden paneling heat-treated pine wood



* All Skargards Regal hot tubs produced before January 1st 2017, and some produced during the first half of 2017, have a total flue height of 257 cm.



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