WOOD-FIRED HOT TUB

USER MANUAL

Installation · Use · Maintenance

CONTENTS

1. Introduction 3

2. Safety 4

2.1 Preparation 4

2.2 Hot Tub Installation and Safety Guidelines 5

2.3 Usage 5

3. Installation 8

3.1 Placement 8

3.2 Bearing surface 9

3.3 Delivery 10

3.4 Assembly of hot tub — external heater 10

3.5 Assembly of hot tub — integrated heater 123

3.6 Assembly of hot tub — integrated horizon heater 166

3.7 Hot tub troubleshooting and help 177

4. Use 199

4.1 Water sources 199

4.2 Filling the hot tub 199

4.3 Water hygiene and maintenance 199

4.4 Heating 20

4.5 After usage of the heater 21

4.6 Draining water 21

4.7 Regular cleaning 21

4.8 Winter time use 22

5. Maintenance 23

5.1 Stove glass window 23

5.2 Wood-fired heater 23

5.3 Fiberglass tub care 24

5.4 Exterior cladding and material care 24

5.5 Long-term storage 25

5.6 Access for servicing 25

6. SPA System 26

6.1 Overall control 26

6.2 Button controlled system 27

6.3 Smart Controller Gecko IN.K300 28

6.4 Smart Controller Gecko IN.K1000+ 28

6.5 Electric heater 30

6.6 Electric heater plugs and sockets 31

7. Sand Filtration System 34

7.1 Filtration system operating principle 34

7.2 Preparation before installation 34

7.3 Installation of the Mini Saturn filtration system 34

7.4 Installation notes 36

7.5 Initial start-up procedure 36

7.6 Operation and maintenance notes 36

7.7 Valve functions 37

7.8 Measurements 37

8. Skim Filter Installation and Operation 38

9. Warranty Terms & Conditions 40

1. Introduction

Welcome!

We're delighted that you've chosen one of our hot tubs to create your special moments of relaxation and connection. Thank you for trusting us to bring comfort and joy to your home.

Before you dive in, we encourage you to take a little time to go through this manual. It's here to help you set up, care for, and enjoy your hot tub for years to come. Keep it in a safe spot—you might need it again down the road.

We know life can get busy, and that's why we've designed our hot tubs to be your haven — a place to unwind, laugh, and recharge with those who matter most. We're confident your new hot tub will become the heart of countless cherished memories.

If you ever need advice, support, or just a friendly voice to guide you, we're always here. Our contact information is at the end of this manual, and we'd be thrilled to hear from you.

2. Safety

IMPORTANT! Read, understand, and follow all instructions carefully before installing and using this product.

The safe enjoyment of your hot tub is our highest priority. Please read the following warnings and safety guidelines carefully before installation and use. Failure to follow these instructions can result in serious injury, property damage, or even death. These warnings cover common risks but cannot account for all possible scenarios. Always use caution, good judgement, and refer to national safety regulations where applicable.

2.1 Preparation

- The hot tub is designed for outdoor use and should be placed on a solid foundation at ground level. For special installations, consult a professional engineer with relevant experience.
- It is the owner's responsibility to determine and comply with any local rules and restrictions that may apply to hot tub installation.
- The hot tub should be placed in a location where there is no fire hazard (see Section 3.1).
- Electrical power connections must be performed by a certified electrician. Power connection plugs must not be exposed to moisture or rain. The owner is responsible for ensuring that the outlet complies with applicable local laws and regulations.
- The hot tub should be moved with care. While on a pallet, it can be transported using a forklift. When not on a pallet, it must be moved by at least four healthy adults. In this case, the lifting points should be at the bottom of the façade boards. Thick gloves should be worn to prevent injuries from wood or fiberglass splinters.

If the hot tub is placed on a flammable surface, such as a wooden terrace, special precautions must be taken to reduce fire risk. A hearth plate should be installed in front of the wood-fired heater, covering a surface at least 0.6 meters in length from the heater door and at least 1 meter in width, as per Figure 1. These are minimum safety measures—consult a specialist for the safest setup.

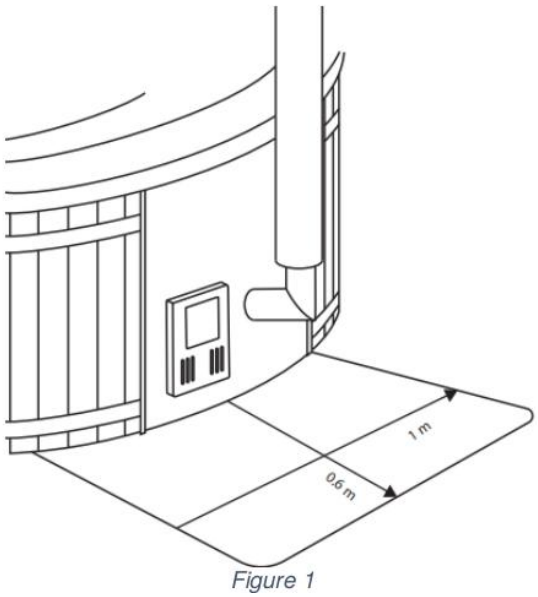


Figure 1. Hearth plate placement in front of the wood-fired heater

2.2 Hot Tub Installation and Safety Guidelines

Intended use and placement

- The hot tub is designed for outdoor use only and must be placed on a solid foundation at ground level.
- For specialized installations, consult a qualified engineer with relevant experience.

Local rules and regulations

- It is the owner's responsibility to verify and comply with local rules and restrictions that may apply to the installation and use of the hot tub.

Fire safety considerations

- Ensure that the placement of the hot tub does not pose any fire hazards (refer to Section 3.1 for detailed guidelines).
- If installing the hot tub on a flammable surface such as a wooden terrace, additional precautions are required.
- Install a hearth plate in front of the wood-fired heater. The hearth plate must extend at least 0.6 meters from the heater door and be at least 1 meter wide. These are minimum safety requirements—consult with a professional for a safer setup.

Electrical connections

- All electrical connections must be performed by a licensed professional electrician.
- Ensure that power connection plugs are protected from moisture and rain.
- The owner is responsible for ensuring the outlet complies with all applicable local laws and safety regulations.

Moving the hot tub

- The hot tub should be handled with care to avoid damage or injury.
- When on a pallet: transport the hot tub using a forklift.
- Without a pallet: move the hot tub with the help of at least four healthy and capable individuals, lifting it using the bottom of the façade boards.
- To prevent injury, use thick gloves to guard against wood or fiberglass splinters.

2.3 Usage

Personal safety & supervision

- **No unattended children:** Never allow children near or in the hot tub without constant adult supervision. Lockable covers or removal of steps should be used to restrict unauthorized access.
- **Risk of drowning:** Children under 5 are at the highest risk. Ensure a competent adult is appointed as a supervisor at all times.
- **No solo bathing:** Never use the hot tub alone. In case of dizziness, fainting, or medical emergency, help must be available.
- **Entry & exit:** Enter and exit the tub slowly and carefully. Surfaces may be slippery. Never jump into the hot tub.

Temperature & health risks

- **Maximum temperature:** The water temperature should never exceed 40 °C (104 °F). Lower temperatures are recommended for children and prolonged use.
- **Check temperature before use:** Always test the water temperature with your hand or elbow before entering.
- **Hydration:** Stay hydrated. Prolonged exposure to hot water can cause dehydration, overheating, and fainting.
- **Pregnancy:** Pregnant women should consult a doctor before using the hot tub, particularly during the first trimester, due to the risk of fetal damage from high temperatures.
- **Medical conditions:** Individuals with heart disease, diabetes, blood pressure issues, open wounds, or other health concerns should consult a physician prior to use.
- **Medication & alcohol:** The use of alcohol, drugs, or medications that cause drowsiness or impaired judgment can increase the risk of drowning or injury. Avoid hot tub use under such conditions.

Water & system safety

- **Water level:** The water level must always be above the stove's hot water outlet before lighting the fire. Operating the stove without sufficient water may cause serious damage and safety risks.
- **Avoid swallowing water:** Never drink or swallow hot tub water.
- **Avoid submersion of head:** Keep your head above water at all times to reduce the risk of drowning or infection.
- **Regular water maintenance:** Proper water hygiene is essential. Follow the maintenance and cleaning guidelines provided in this manual.
- **Chemical use:** Only use approved water treatment products if applicable. Never use chlorine, salt, or bromine unless you are using a stove compatible with such substances. Improper chemical use may damage the materials or void the warranty.

Electrical safety

- **Distance from water:** Electrical devices must be kept at least 2 meters away from the hot tub. Never operate electrical devices from inside the tub or when wet.
- **Use of pumps/filtration:** If using a filtration system or pump, only use compatible components. Broken or missing suction covers must be replaced with original parts before operation.
- **Outdoor-grade connections:** Ensure all electrical connections are outdoor-rated, moisture-protected, and connected to an RCD (residual-current device) outlet.

Product design & usage warnings

- **Freestanding only:** These hot tubs are not designed to be fully or partially sunken into decking or other platforms without external structural support.
- **Do not modify:** Any alterations or modifications to the hot tub, stove, or chimney system may lead to unsafe conditions and will void the warranty.
- **Correct handling:** Do not lift the hot tub by its rims. Always lift from the bottom. For large or heavy units, use proper lifting equipment (e.g., crane or forklift).
- **Extreme weather:** In freezing conditions, drain both the tub and stove fully to prevent ice damage. During strong windstorms, remove or securely strap down the lid and chimney.

By following these tips, you can enjoy your hot tub safely and comfortably.

3. Installation

3.1 Placement

Choosing the right spot for your hot tub. Select an outdoor location for your hot tub, as these tubs are not designed for indoor use. Keep the following points in mind to ensure safety, ease of use, and minimal maintenance:

3.1.1 Location considerations

Choose a permanent spot that avoids fire hazards, water damage, and disruption to neighbors. A sheltered area helps protect the tub from wind and weather, improving heating efficiency and simplifying upkeep. Be aware that nearby trees or shrubs can increase debris, leading to more frequent cleaning. Ensure the path to the tub remains clear to prevent dirt and leaves from being tracked in.

3.1.2 Fire safety

Follow the fire safety guidelines outlined in Section 2.2. Always maintain the recommended safe distances from flammable materials, as illustrated in Figure 2.

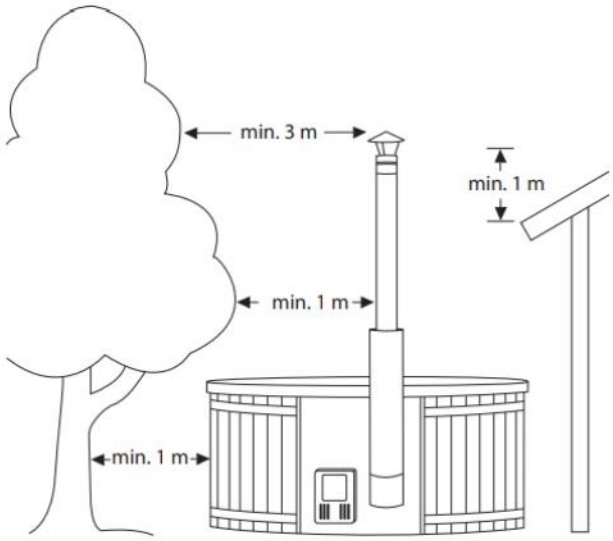


Figure 2. Minimum safe distances from flammable materials

3.1.3 Water drainage

Install the tub in a location that allows water to drain away from it. This helps prevent stagnant water or flooding due to rain or when the tub is being emptied.

3.1.4 Accessibility for maintenance

Choose a location that allows easy access for future maintenance or repairs. Occasionally, the hot tub may need to be tilted onto its side.

Lastly, make sure your installation complies with all local regulations. It is the owner's responsibility to meet these requirements and ensure there is sufficient access for servicing or tilting the tub when needed.

3.2 Bearing surface

When filled, your hot tub can weigh **up to 2,000 kg**. Ensuring a strong, level, and stable surface is essential for safety and long-term durability. Here's what you need to know:

3.2.1 Surface type

Use a smooth, flat surface capable of supporting the full weight of the hot tub. Suitable options include:

- A concrete base
- Paving stones
- Wooden decking (engineered to handle the load)

The surface must be completely level to ensure the hot tub's base frame sits evenly. The frame must be fully supported across all bearing surfaces of the hot tub. Reference Figure 3 and Figure 4.

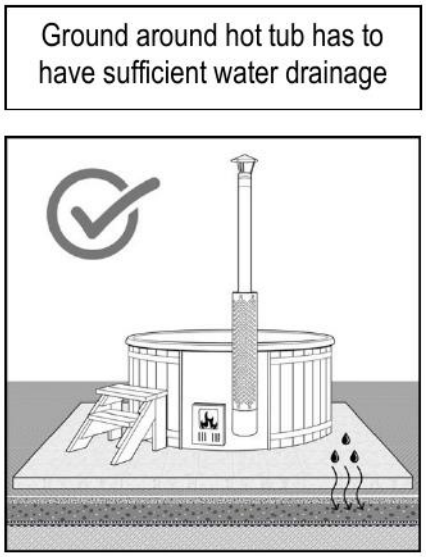


Figure 3. Correct: level surface with sufficient water drainage around the tub

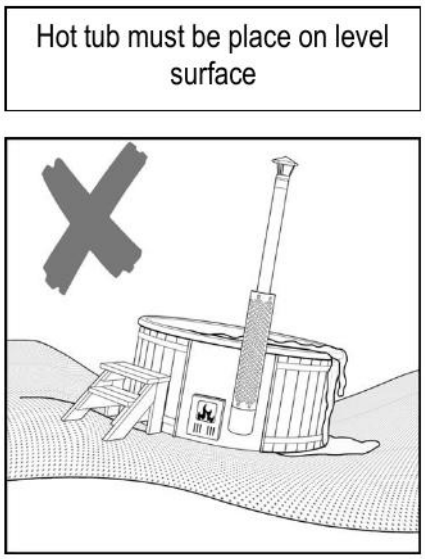


Figure 4. Incorrect: the hot tub must not be placed on an uneven surface

3.2.2 Air circulation

A level surface also helps maintain airflow beneath the tub. **Do not block the gap at the bottom edge**, as this may trap moisture and lead to damage. This gap is also useful for routing hoses and electrical cables.

3.2.3 Underground conduits

If desired, you can integrate empty conduits into the base surface to route hoses and cables underground to their final location.

3.2.4 Warranty note

Installing the hot tub on an inadequate or uneven surface may cause damage that is **not** covered under warranty.

3.3 Delivery

Inspect the packaging for any damage immediately upon delivery. If you notice any potential damage, **take clear photographs** and **note the details on the delivery documents before signing**.

When unpacking the hot tub, **do not use sharp knives**, as they may damage the surface of the product.

3.4 Assembly of hot tub — external heater

3.4.1 Main technical information

Parameter	Value
Projected heating power	20 kW
Fuel type	Wood logs up to 30 cm
Furnace depth	380 mm
Width	660 mm
Height	445 mm
Length	475 mm
Weight	25 kg

3.4.2 Main components of the heater

The basic stove comes with the main parts required for usage (Figure 5):

- a) External heater (1 pc.)
- b) Door (1 pc.)
- c) Chimney pipe (quantity depends on kit)
- d) Water hose (quantity depends on kit)
- e) Ash drawer (1 pc.)

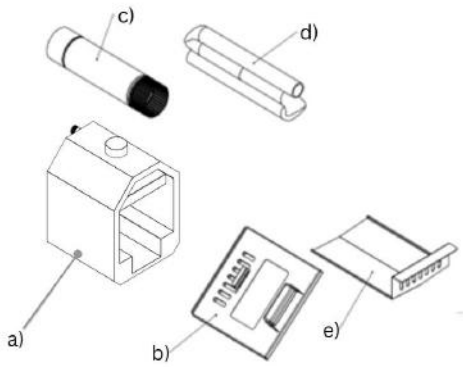


Figure 5. Main components of the external heater

3.4.3 External heater connection and placement

1. Recommended distance. Place the external heater **30 cm** away from the hot tub. A greater distance may reduce circulation efficiency and result in slower heating.

2. Water hose positioning. The top water hose must run **upward** from the heater to the hot tub. This is essential because hot water rises naturally. Both inlet and outlet hoses must be **straight** and free of any slumps or dips that could trap air or reduce flow efficiency.

3. Flow direction. Ensure that water flows **upward from the heater to the tub** at the top connection, and **downward from the tub to the heater** at the bottom connection.

IMPORTANT NOTE: The dimensions shown in Figure 6 must be maintained in all cases!

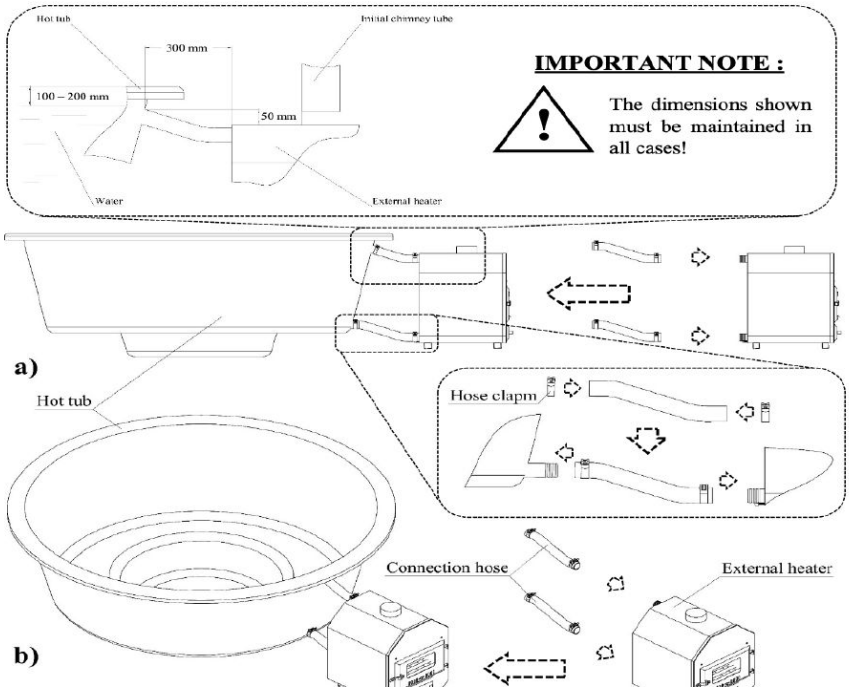
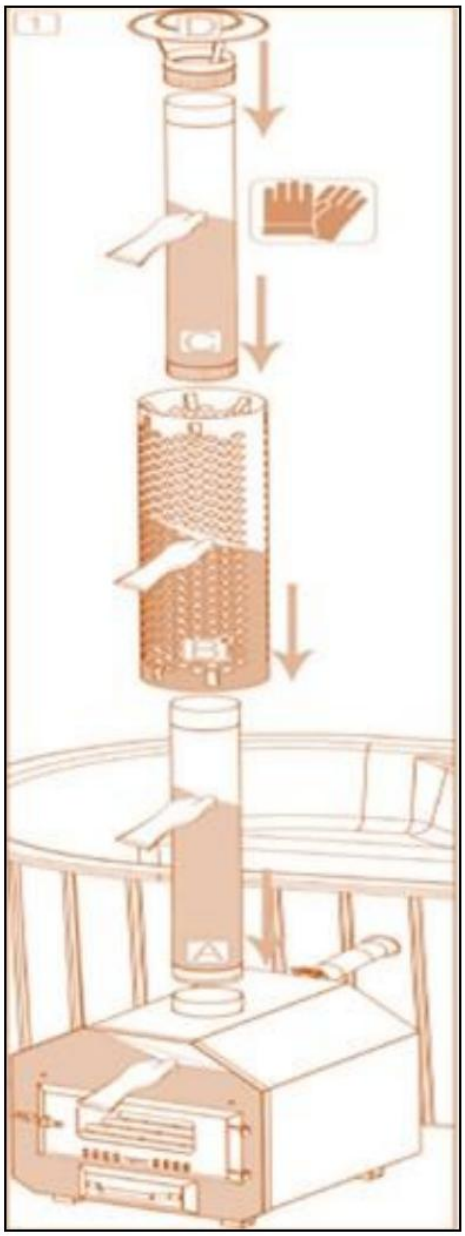


Figure 6. External heater connection and placement

3.4.4 External heater chimney installation

1. **Remove protective foil.** Carefully remove all protective foil from the chimney pipes and chimney guard. **Use protective gloves** during this step for safety.

2. **Install chimney elbow and first chimney pipe (A).** Insert the chimney elbow into the top of the heater. Then, place the first chimney pipe (A) on top of the elbow. Note: the chimney pipe has different diameters at each end—**the wider end must go on top**.
3. **Attach chimney guard (B).** Slide the chimney guard (B) over the first chimney pipe until it sits securely in place.
4. **Install second chimney pipe (C).** Place the second chimney pipe (C) on top of the guard. Again, ensure the wider end is facing up.
5. **Attach chimney cap (D).** Place the chimney cap (D) on the topmost section of the chimney to complete the vertical assembly.
6. **Position ash grates.** Inside the heater's combustion chamber, position the ash grates evenly on the steel support plates.
7. **Mount the door.** Securely mount the door to the front of the heater unit.



Chimney assembly sequence for the external heater

3.5 Assembly of hot tub — integrated heater

3.5.1 Main technical information

Parameter	Value
Projected heating power	30 kW
Fuel type	Wood logs up to 30 cm
Furnace depth	380 mm
Carbon dioxide emissions	0.09%* with 13% O_2 content
Fuel gas temperature	430 °C*
Width	660 mm
Height	445 mm
Length	475 mm
Weight	62 kg

3.5.2 Main components of the heater

The basic stove comes with the main parts required for usage (Figure 7):

- a) Stove (1 pc.)
- b) Ash drawer (1 pc.)
- c) Stove door (1 pc.)
- d) Cast iron ash grates (1 pc.)
- e) Chimney elbow (1 pc.)
- f) Chimney elbow fastening kit (1 pc.)

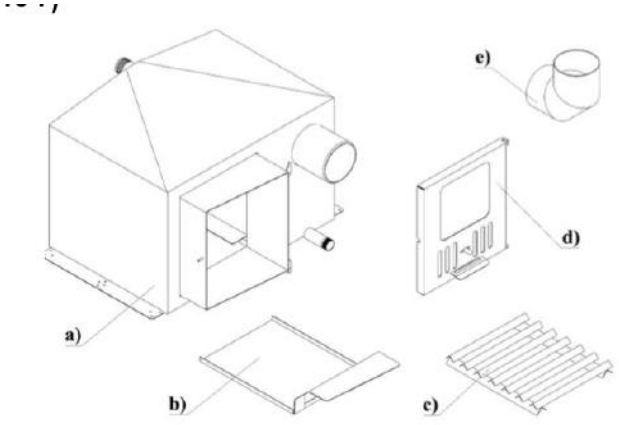


Figure 7. Main components of the integrated heater

3.5.3 Fixing the chimney

Before installing the chimney, a chimney elbow must be fixed to the heater. Slide in the chimney angle, then fix the screw on the tube's bottom. Reference Figure 8.

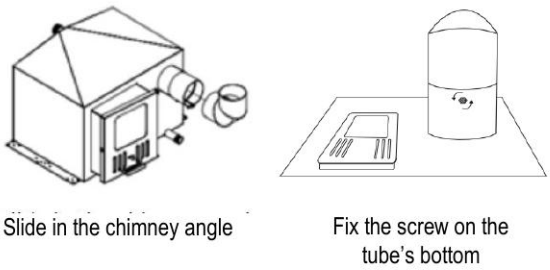


Figure 8. Fixing the chimney elbow to the heater

3.5.4 Chimney installation

The chimney must be installed in a specific order. The first part to be put into the chimney elbow is marked with number 1. The second and third parts of the chimney are marked with number 2, as illustrated in Figure 9.

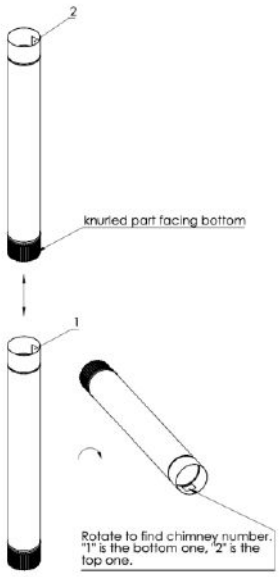


Figure 9. Chimney part numbering — rotate to find the chimney number: "1" is the bottom one, "2" is the top one

The full assembly sequence is shown in Figure 10:

- a) Direction of attachment of the chimney guards
- b) Direction of attachment of the initial chimney tube
- c) Direction of attachment of the initial chimney tube to the elbow
- d) Initial chimney tube assembled to the heater
- e) Attachment of the chimney cap
- g) Mounting the second part of the chimney
- h) Inserting the second part of the chimney

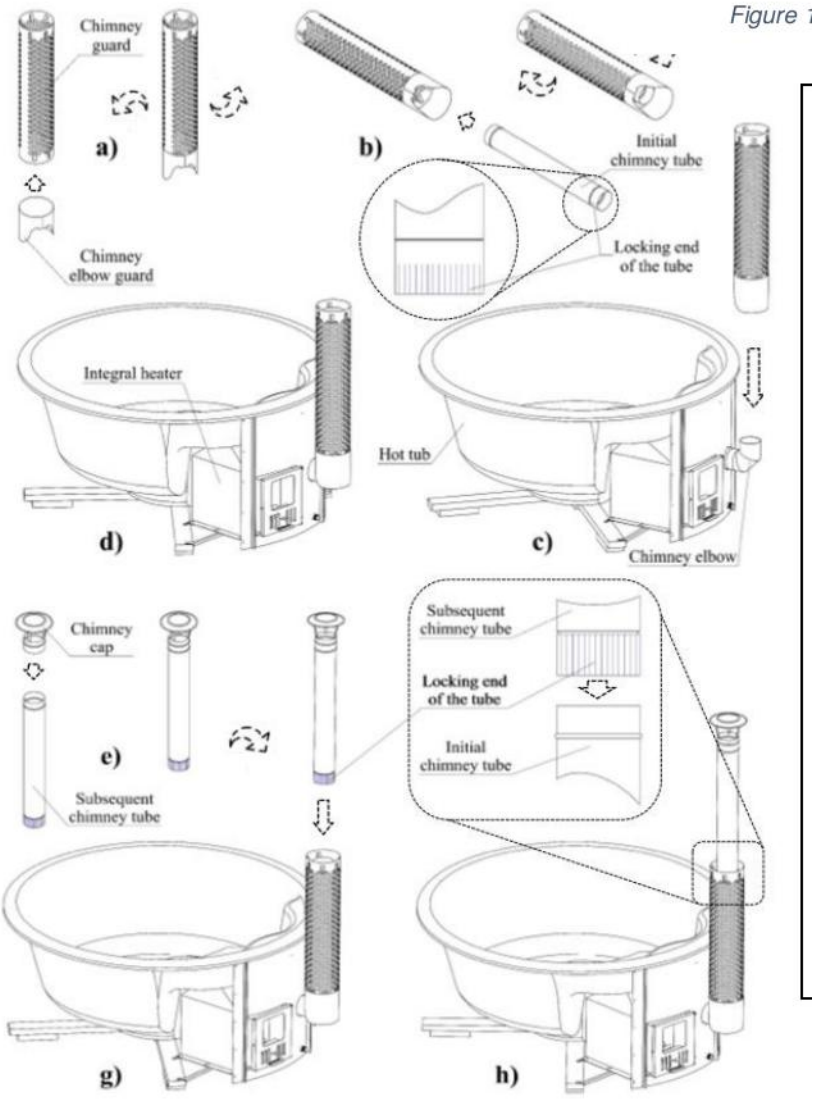


Figure 10. Chimney installation sequence

3.5.5 Installing doors

Mount the door on its holders. Reference Figure 11.

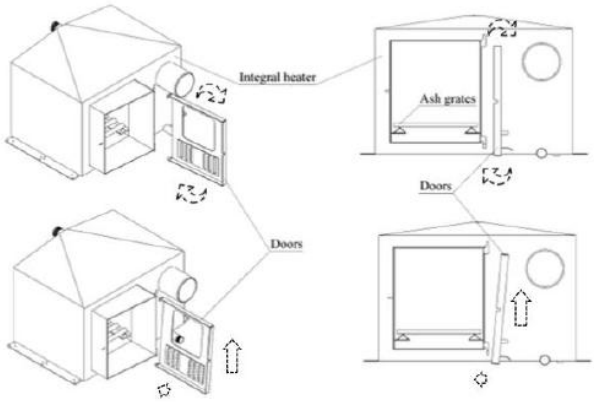


Figure 11. Mounting the door on holders

First insert the door at the bottom, then proceed to mount it on the top holder. Reference Figure 12.

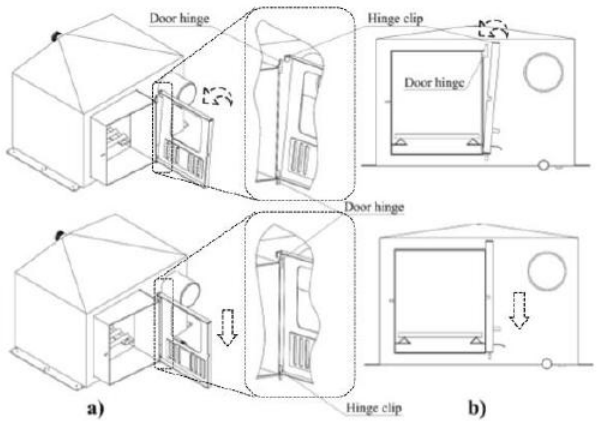


Figure 12. Inserting the door — bottom first, then top

Lock the door with the locking pin. Reference Figure 13.

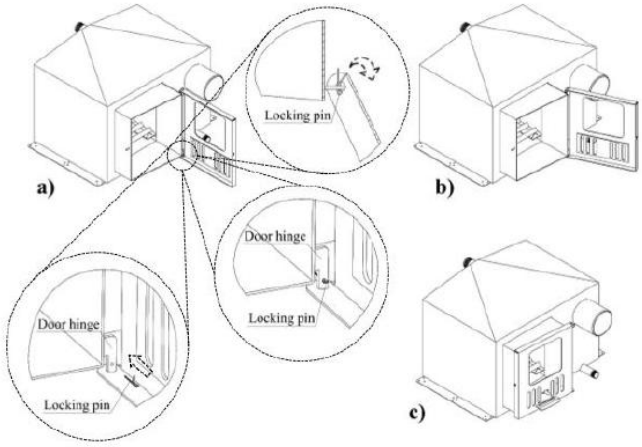


Figure 13. Locking the door with the locking pin

3.6 Assembly of hot tub — integrated horizon heater

3.6.1 Main technical information

Parameter	Value
Projected heating power	25 kW
Fuel type	Wood logs up to 30 cm
Furnace depth	380 mm
Width	660 mm
Height	445 mm
Length	475 mm
Weight	40 kg

3.6.2 Main components of the heater

The basic stove comes with the main parts required for usage (Figure 14):

- a) Horizon heater (1 pc.)

- b) Door with glass insert (1 pc.)
- c) Ash drawer (1 pc.)
- d) Cast iron ash grates (1 pc.)
- e) Chamotte bricks (4 pcs.)

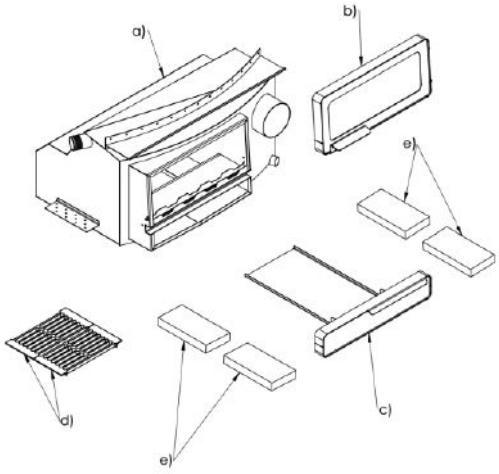


Figure 14. Main components of the horizon heater

3.6.3 Chimney installation

Please refer to Sections 3.5.3 and 3.5.4 for a fully detailed chimney installation guide.

3.6.4 Installing doors

Install the door as shown in Figure 15.

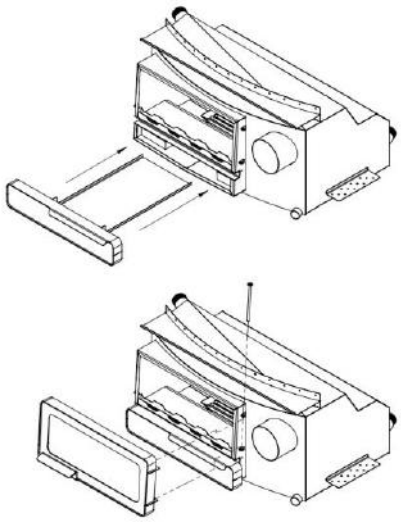


Figure 15. Installing the horizon heater door

3.7 Hot tub troubleshooting and help

Problem	Solution
Burning too slow	A slow burn may be caused either by insufficient air intake into the heater or by wet fuel. The problem can be solved by:

Problem	Solution
	• Adding dry wood • Not overcrowding the burning chamber with wood • Leaving the doors open • Adding an additional chimney pipe to increase the height of the chimney and thus improve airflow • Checking for soot inside the chimney and chimney elbow; clean it for the next use
High condensation or moisture inside the burning chamber	High condensation can be caused by wet wood or a low burning temperature. Soot formed in the heating chamber and chimney accumulates water and releases it. To solve this problem: • Use dry wood for burning • Open the doors or ash tray to get additional air inside the heating chamber • If required, increase the chimney height with 1 or 2 additional chimney pipes; this will improve airflow for burning
Heater makes noise while heating	Loud bubbling noises can be caused by air formed in the heater. This could be due to incorrect installation of the heater, an uneven base for the hot tub, or a lack of water in the hot tub. Check and resolve these issues before continuing to use the hot tub.
High volumes of smoke	High levels of smoke are caused either by burning wet wood or by low burning temperatures. Use dry wood and ensure sufficient airflow in the burning chamber.

4. Use

IMPORTANT! This section outlines the proper steps for the regular use of your hot tub. Please read and follow these instructions carefully.

4.1 Water sources

For optimal performance and hygiene, fill the hot tub with **clean tap water** whenever possible. Soft water is highly recommended because it minimizes mineral buildup over time. If you plan to use alternative water sources (such as well water, lake water, or rainwater), be sure they are properly filtered and treated before use.

4.2 Filling the hot tub

Before filling the hot tub, **thoroughly clean the interior** according to the guidelines in Section 4.7. Then, ensure that all water and drain valves are completely closed.

- **Water quality:** Use clean, soft water to reduce the formation of mineral deposits.
- **Filling level:** Fill the hot tub until the water level is at least 10 cm above the top heater outlet, as illustrated in Figure 16. Maintaining this level is critical; insufficient water may cause heater overheating, damage the unit, or void the warranty.
- **Note on water displacement:** Keep in mind that bathers will displace water when entering the tub, so avoid filling it to the very brim.

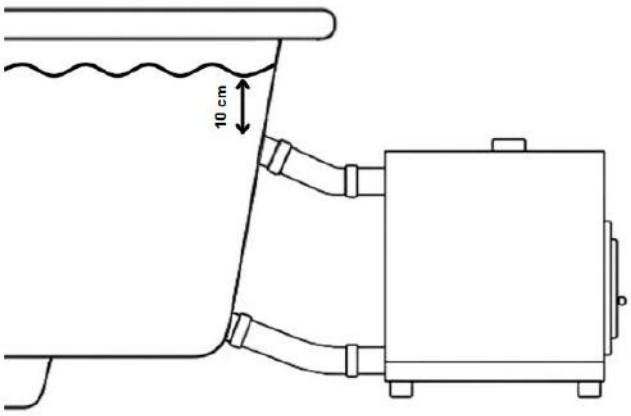


Figure 16. Minimum water level: at least 10 cm above the top heater outlet

4.3 Water hygiene and maintenance

Your health and safety come first. For optimal hygiene, we recommend replacing the bathing water after each use, especially when the hot tub is used without a filtration or treatment system.

According to the **EU Bathing Water Directive 2006/7/EC**, clean, drinkable water can safely remain in the hot tub for up to **5 hours**, while untreated or non-drinkable water should not be used for more than **3 hours** per session.

Important: Prolonged use of the same water—especially without proper filtration or disinfection—can increase the risk of waterborne illnesses. Always follow the water care recommendations provided in this manual.

To help maintain clean bathing water, follow these simple guidelines:

- **Always shower** before entering the hot tub to reduce the introduction of oils, sweat, and dirt.
- **Place the insulated cover** on a clean surface when removed, to avoid transferring debris into the water when repositioning it.
- **Keep the cover on** the hot tub when not in use to retain heat and prevent contamination from insects, leaves, or dust.

4.4 Heating

4.4.1 Firing up the heater

> **Caution:** Always verify that the water level is at least 10 cm above the top heater outlet before igniting the heater, as shown in Figure 16. Failure to do so can cause the heater to overheat, void your warranty, and present a serious fire hazard.

Preparation: Open the stove door and ash drawer to ensure maximum airflow before starting the fire.

Wood requirements

- Use dry wood exclusively.
- For ignition, use finely chopped wood pieces so they catch fire quickly.
- Avoid overstacking the wood—excessively dense loading restricts air circulation and reduces burning temperatures.

> **Safety note:** The stove door and flue become extremely hot during operation. Ensure that children and pets are kept at a safe distance, and wear appropriate protective gear when handling the stove.

4.4.2 Reaching bathing temperature

The time required to reach your desired bathing temperature depends on outdoor conditions (season, wind, and air temperature) and the initial water temperature. For efficient heating, follow these best practices:

Wood selection

- Use wood with low moisture content and high energy density, such as dry birch.
- Select small logs, approximately 5 cm wide, to encourage efficient burning.

Fire maintenance

- Regularly refill the stove with as many logs as it can hold to maintain consistent heat.
- Keep the ash pan partially pulled out (5–10 cm) during the heating process to enhance airflow.

Heat retention: Cover the hot tub with an insulated lid while heating to retain warmth.

4.4.3 Maintaining the bathing temperature

When the water is only a few degrees below your target temperature, stop adding wood and fully push in the ash pan to close the air intake. This controlled reduction in oxygen will decrease the fire's intensity and help stabilize the water temperature.

Monitoring

- Regularly monitor the water temperature by stirring the water and testing it with your hand or elbow.
- For a more accurate measurement, use a digital thermometer.

Cooling

- If the water becomes too hot, gradually add cold water from a garden hose or bucket.
- In winter, crushed snow may serve as an alternative cooling method.

4.4.4 Additional considerations

- **Water hygiene:** For optimal hygiene, change the bathing water after each use or follow your local regulations regarding water usage times.
- **Maintenance:** Regularly inspect the heater components, water valves, and firebox. Adhering to a scheduled maintenance routine, as detailed in Section 4.7, will extend the life of your hot tub.
- **Safety reminders:** Always review these instructions before each use. Never bypass any of the safety measures—particularly the water level requirement—as they are integral to preventing damage and ensuring safe operation.

4.5 After usage of the heater

After using the hot tub, allow the fire to burn out naturally. **Do not pour water into the stove** to extinguish the fire, as the sudden temperature change can warp and damage the stove and ash pan.

Ensure that the fire is completely extinguished and there are no remaining embers. Remove the ash pan and carefully transfer the ashes into a **non-flammable container**, such as a metal bucket. Be mindful that the ash pan may still be hot—place it on a **non-flammable surface** or return it directly to the stove.

Avoid placing the ash pan on cold surfaces, such as snow, as the rapid temperature change could cause warping.

4.6 Draining water

Before draining the bathing water, ensure that the fire is completely extinguished, the ash pan has been emptied, and the stove has sufficiently cooled down.

Keep in mind that a large volume of water will be drained from the hot tub. Verify that the drainage area is prepared to prevent any potential damage to the surrounding environment.

4.7 Regular cleaning

To keep your hot tub in excellent condition—both visually and functionally—it is essential to clean the tub thoroughly **every time the bathing water is drained**. Regular maintenance not only preserves the aesthetics but also extends the lifespan of your hot tub.

Tip: Cleaning is easiest immediately after draining, while surfaces are still damp and any residue is easier to remove.

Cleaning instructions

1. Wipe down the interior of the tub using a soft sponge or cloth along with a **non-abrasive, pH-neutral cleaner**.

2. **Rinse thoroughly** with clean water to remove any soap or residue.
3. Clean around **nozzles, buttons, and fittings** to prevent buildup and ensure proper function.
4. For models with an integrated stove: flush the **circulation channels** by spraying clean water through both the **lower inlet** and **upper outlet**. Repeat until the water runs clear and no visible debris remains in the channels.

Important: Always leave the drain valve open during cleaning and whenever the hot tub is not in use for extended periods. This helps prevent moisture buildup, odor, and potential frost damage in colder conditions.

By integrating these steps into your routine, you'll ensure a consistently enjoyable and hygienic bathing experience while protecting your investment in a high-quality product.

4.8 Winter time use

The hot tub can be used in sub-zero temperatures, but it is essential to **empty it completely after use** to prevent water in the stove channels from freezing. Ice buildup can cause severe damage to the stove and may render the hot tub inoperable.

Never leave water in the hot tub during winter, as ice buildup can damage the stove and potentially make it unusable. Be especially cautious during nighttime, as sub-zero temperatures are most likely to occur then.

Additional instructions for hot tubs with massage systems

Before winter, or after draining the tub in freezing conditions, follow these steps to clear **residual water from the massage systems**:

1. After draining the tub, **briefly turn on each massage system** for **no more than 3 seconds**.
2. **Wait 20 seconds**, allowing any loosened water to settle or drain.
3. **Repeat this process two more times** (3 cycles in total).

This process helps **remove any remaining water** from the pipes and nozzles, preventing freeze damage within the system.

Note: These short bursts should only be performed after draining the tub and must not exceed 3 seconds per cycle to avoid running the pumps dry.

By following these winterization steps, you'll protect your hot tub and ensure it remains in top condition for many seasons to come.

5. Maintenance

Following the maintenance guidelines in this manual will help ensure your hot tub remains in optimal condition—**both visually and mechanically**—for years to come.

> **Safety first:** If your hot tub is equipped with bubble jets, underwater lighting, or any other electrical features, always disconnect all power sources before carrying out any cleaning or maintenance work. This is essential to prevent electrical hazards and damage to the equipment.

5.1 Stove glass window

Over time, it is natural for **soot to accumulate** on the stove door's glass window. Fortunately, cleaning it is quick and easy.

Recommended cleaning method

1. Dampen a **paper towel or soft cloth** with water.
2. Dip it lightly into **white ash** from the stove's ash pan.
3. Rub the ashes onto the glass in a **gentle circular motion**.
4. Wipe clean with a fresh damp cloth and dry the surface.

This method uses the **natural abrasiveness of ash** to remove soot without damaging the glass. Alternatively, specialized **stove glass cleaning products** are available from most home and fireplace retailers.

Regular cleaning of the stove window not only keeps your hot tub looking great but also allows you to **visually monitor the fire more easily** during heating.

5.2 Wood-fired heater

Proper care of your wood-burning heater is essential for **efficient operation, safety**, and the **longevity** of your hot tub system.

After each use

- **Empty the ash compartment** after every use to maintain proper airflow and efficient combustion.
- **Do not leave the heater filled with water** during freezing temperatures, unless the hot tub is actively being heated. Freezing water can cause serious damage to the heater.
- **Avoid splashing water** onto the stove glass while the heater is burning. Sudden temperature differences may cause the glass to crack.

Routine maintenance

- The frequency of chimney cleaning depends on the **type of firewood** used. Softwoods (such as pine or spruce) contain more resin and produce more soot, requiring more frequent maintenance than hardwoods (like birch or oak).
- As a general guideline, we recommend **cleaning the chimney every 15–20 uses**.
- Always clean the **chimney elbow** during maintenance, as this is where soot commonly builds up.
- Remove any **leaves, ash, or debris** from around and inside the **external heater housing** to ensure safe operation and ventilation.

- If your chimney cap is equipped with a mesh screen, **clean it at the same time** to prevent blockages.

Pro tip: A clean heater and chimney ensure a more powerful, stable fire and reduce the risk of smoke backdraft or chimney fires.

By incorporating these maintenance steps into your routine, you will ensure that your stove performs reliably and safely with every use.

5.3 Fiberglass tub care

In addition to the **regular cleaning procedures** described in Section 4.7, your fiberglass tub will benefit from **annual deep cleaning and surface care** to maintain its glossy finish and vibrant appearance.

Recommended annual maintenance

- Use a **gelcoat cleaner** to remove any stubborn buildup or surface residues.
- Follow with a **fiberglass polish** to restore shine and smoothness.
- Finish by applying a **marine-grade wax** to protect the surface from UV exposure and oxidation.

Tip: Always use soft cloths or non-abrasive applicators to avoid scratching the surface.

Removing yellowing or stains

If you notice **yellow discolouration**, particularly around the waterline or drain, treat it with a **dilute oxalic acid solution**. This is a safe and effective method to restore the original color without damaging the gelcoat.

> **Caution:** Wear gloves and follow all safety instructions when working with cleaning chemicals like oxalic acid. Rinse the surface thoroughly after use.

5.4 Exterior cladding and material care

Our models feature **ThermoWood, spruce**, or **WPC (wood-plastic composite)** for cladding, steps, or accessory surfaces. Each material has specific care recommendations to ensure long-lasting performance and aesthetic appeal.

ThermoWood and spruce

- Both ThermoWood and spruce are natural woods that require regular maintenance to preserve their color and structural integrity.
- To maintain the original wood tone and protect against moisture and UV exposure, apply a **specialized exterior wood oil with UV protection** at least **once per year**.
- Over time, exposure to sunlight and moisture will naturally cause the wood to develop a **silver-grey patina**. This is a normal aging process and does not affect the structural quality of the wood.
- For the best results, **lightly sand the surface** before each new application of wood oil to ensure better absorption and finish.

WPC (wood-plastic composite)

- WPC is a low-maintenance, weather-resistant material that does not require oiling or staining.
- However, regular **cleaning with mild soap and water** is recommended to prevent buildup of dirt or debris.

- WPC is highly resistant to **fading, cracking, and mold**, but long-term exposure to direct sunlight may cause slight tonal changes over the years.

Note: All materials—natural or composite—benefit from proper care and seasonal inspection. Keep surfaces clean and protected.

5.5 Long-term storage

If your hot tub remains unused for an extended period (e.g., during the off-season or travel), proper preparation is essential to prevent damage and preserve the system:

- **Completely drain** the tub and **leave the drain valve open** to avoid water accumulation from rain or condensation.
- **Remove the top section of the chimney flue** to minimize wind resistance and reduce the risk of storm-related damage.
- Ensure that all **power systems (if applicable)** are disconnected, and store any accessories such as covers or steps in a dry, sheltered area.

> **Important:** Never store the hot tub with water inside during freezing temperatures, as it may lead to severe damage due to ice expansion.

5.6 Access for servicing

Certain maintenance tasks or repairs may require access to components located beneath the tub. In such cases, the hot tub must be **carefully tilted onto its side**.

Follow these steps to do so safely:

1. **Prepare the ground** by placing several layers of **strong cardboard or protective padding** on a flat surface.
2. Position the padding just **left of the stove**, where the **base frame is reinforced**.
3. Gently **tilt the hot tub** by lifting from the **opposite side** of the reinforced section. This prevents undue stress on structural components.
4. To safely return the hot tub to its upright position, follow the instructions outlined in Section 3.1.

> **Caution:** Always perform this procedure with at least two people to avoid injury or damage to the hot tub.

6. SPA System

6.1 Overall control

- **Electrical connection:** Hot tubs operate via connection to an electrical power network. The power plugs are typically located behind the revision doors (see Figure 17).
- **Filter box models:** If your hot tub includes a sand filter box, it may contain an additional power plug inside.
- **Electrical safety:** Always consult a qualified electrician for safe installation and connection. Ensure that the power line has adequate capacity to handle the hot tub's electrical load.
- **Power consumption overview:** Massage systems: 1–3 kW; electric heaters: 3–9 kW.
- **Grounding requirement:** The electrical supply to the hot tub must be properly grounded to ensure both safety and optimal performance.



Figure 17. Power plug located behind the revision door

6.2 Button controlled system

Some hot tubs are equipped with **button-operated control panels** for easy use of the integrated systems.

Button	Function
	**Hydro massage system:** If equipped, simply press the button to activate the hydro massage jets.
	**Lighting system:** The hot tub features multiple light modes. Press the lighting button repeatedly to cycle through the available colors until the desired mode is reached.

Button	Function
	**Air system:** Press the air button to activate the air pump, which streams air through dedicated air jets. In combined massage systems, the air pump also injects air into the hydro jets, intensifying the water stream for a stronger massage effect.

6.3 Smart Controller Gecko IN.K300

If your hot tub is equipped with the Gecko in.k300 smart controller, the essential features you'll use regularly are described below. For more advanced settings, see the full in.k300 manual or visit the Gecko Alliance website.

For a reference to the basic controls of the in.k300 keypad, please refer to Figure 18.

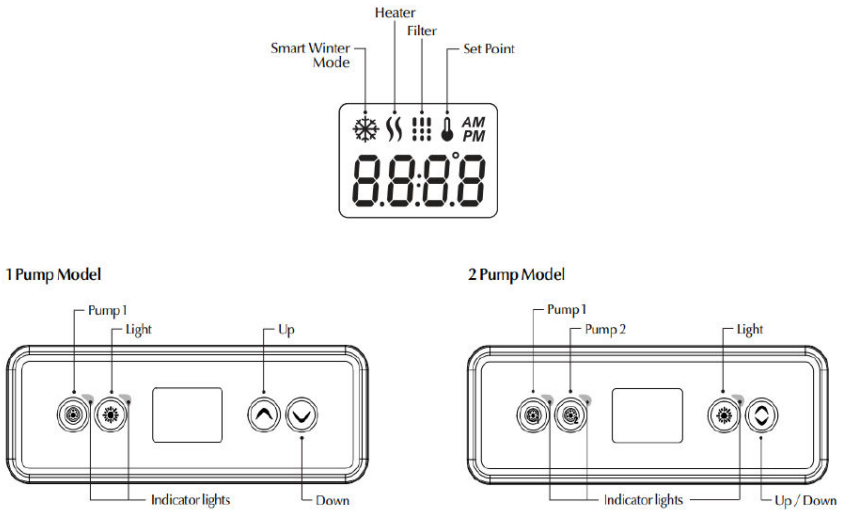


Figure 18. Gecko in.k300 keypad — 1-pump and 2-pump models

Basic controls

- **Pump 1:** Press once for low speed, twice for high speed, and a third time to turn off.
- **Pump 2 / Blower (if equipped):** Controlled by the Pump 2 button.
- **Light:** Press to turn the spa light on/off.

Setting the water temperature

- Use the Up (▲) or Down (▼) buttons to set your desired temperature.
- The screen will flash your setpoint, then revert to showing the current temperature.

Setting the clock

1. Press and hold the **Light** button for 5 seconds to enter the program menu.
2. Use ▲▼ to adjust the **hour**, press **Light** to switch to **minutes**, adjust, then press **Light** again to move to the next setting.

Filter cycle (pre-set at installation, but adjustable)

- Filters run automatically to keep your water clean.
- To adjust: enter the program menu → set start time (FS), duration (Fd), and frequency (FF).

Economy mode (if enabled)

- Reduces the water temperature by 11 °C (20 °F) during set hours to save energy.
- Activated via the program menu (Light key → EP = economy mode).

Off mode (maintenance)

- Hold **Pump 1** for 5 seconds to stop all functions for 30 minutes (for quick cleaning or water checks).

Error messages

The display will show codes like FLO, OH, or HL if there's an issue. Refer to the full controller manual for troubleshooting steps.

Want to customize settings or troubleshoot?

For advanced features like programming purge cycles, setting Smart Winter Mode, adjusting temperature units (°C/°F), or reading error messages, please see the official Gecko in.k300 TechBook or visit the Gecko Alliance website.

6.4 Smart Controller Gecko IN.K1000+

The Gecko in.k1000+ is a full-featured color capacitive touchscreen controller designed to give you easy and intuitive access to all your hot tub's features. The essential features you'll use regularly are described below. For more advanced settings, see the full in.k1000+ manual or visit the Gecko Alliance website.

For a reference to the basic controls of the in.k1000+ keypad, please refer to Figure 19.



Figure 19. Gecko in.k1000+ touchscreen controller

Getting started

- **Waking the screen:** Touch the screen to turn it on. The display turns off automatically 3 minutes after the last pump shuts off if no activity is detected.
- **Navigation:** Use the left-hand wheel to scroll between primary modes (Spa, Audio, Color, Settings, etc.). Use the right-hand wheel to navigate within menus.
- **All-On/All-Off button:** Tap this icon to start or stop all accessories and components at once.

Spa mode

To access Spa Mode, use the left wheel to select the Spa icon. The home screen will display:

- Start/stop buttons for pumps, blower, and lights
- Current water temperature
- Up/Down arrows to set the water temperature
- Quick access to settings like display orientation and contrast

Temperature control

- Adjust using the Up/Down icons.
- Blue text = set point.
- The display shows “Heating to…” or “Cooling to…” depending on the desired temperature.

Accessory control

- Tap the corresponding icon (Pump, Light, Blower) to toggle them on/off.
- Icons animate when active.
- Tap repeatedly for accessories with multiple speeds.

Settings menu

To access system settings, use the left wheel to highlight the Settings icon, then use the right wheel to scroll through the following options:

- **Water Care:** Set filtration and economy schedules
- **Maintenance:** View and reset reminders
- **Keypad:** Adjust display, contrast, and lock settings
- **Date & Time:** Set time and date
- **Wi-Fi:** (Requires the in.touch module)
- **Heat Pump:** Choose heating/cooling modes (if applicable)
- **Miscellaneous:** Adjust warm weather settings and info messages

Water care settings

Choose from five preset water care modes:

- **Standard:** Always maintains full temperature, filters per system default
- **Away from Home:** Always in economy mode; set temperature reduced by 20 °F
- **Energy Savings:** Economy mode during peak hours, normal mode on weekends
- **Super Energy:** Economy mode every day during peak hours
- **Weekender:** Economy mode Mon–Fri, normal mode on weekends

You can customize filtration, purge, and economy schedules in each mode.

Maintenance reminders

- Reminders notify you of essential maintenance (e.g., filter cleaning).
- Reset a task by selecting it and confirming the reset.

Standby mode

- Puts the system in a safe mode for servicing.
- Pumps stop for 30 minutes and restart automatically.

Display & keypad settings

- Adjust display contrast and orientation
- Switch between °C and °F
- Change the display language
- Lock the keypad (partial or full lock)

To lock the keypad

- Set a 4-digit PIN (required to unlock later)
- Universal unlock code: 3732

Heat pump modes

- **Eco Heat:** Uses only the heat pump
- **Smart Heat:** Uses the heat pump primarily, the heater if needed
- **Eco Auto:** Automatically switches between Eco Heat and Cool
- **Smart Auto:** Auto-switches with optional heater backup
- **Cool:** Cooling only
- **Electric:** Only the electric heater is used

Note: Accurate performance depends on proper spa setup and heat pump maintenance.

Wi-Fi settings (if in.touch is installed)

- Use the Wi-Fi menu to connect to a wireless network
- Enter the password when prompted

This section provides only the most relevant instructions for your hot tub setup. For advanced configurations or troubleshooting, refer to the full Gecko in.k1000+ manual or visit the Gecko Alliance website.

6.5 Electric heater

Connecting the tub to the electrical system

The hot tub must be connected by a certified electrician according to national and local electrical codes. The electrician must check and ensure that the electrical system is properly grounded and meets all safety requirements before operation.

Power requirements

The electrical specifications may vary depending on the selected configuration. Typically, the hot tub operates on a 230 V single-phase connection, but always refer to the technical label on the system for exact voltage and current requirements.

Control system

Our hot tubs can be controlled in one of three ways:

- Equipped with the in.k300 control system

- Equipped with the in.k1000 control system
- Controlled manually via buttons (in this case, the hot tub does **not** have an electric heater installed)

The in.k300 and in.k1000 controllers provide intuitive, reliable operation for your hot tub. If your hot tub has one of these controllers, please refer to the specific controller user manual included for detailed instructions.

Heater installation

The **heater is pre-installed** in all our hot tubs. No additional installation is required. Once the tub is connected to power and water, it is ready for use.

Startup checklist

Before powering on the system:

- Make sure the tub is filled with water up to the required level.
- Double-check all electrical connections.
- Ensure the heater is covered by water before activating the system.

Once these steps are completed, you can safely start up your hot tub and enjoy your experience.

6.6 Electric heater plugs and sockets

When your hot tub comes with an electric heater, we supply one of two types of industrial plugs:

Blue plug (3-pin)

- **Used for:** 3 kW electric heater
- **Connection type:** Single-phase



Figure 20. Blue 3-pin plug (single-phase, 3 kW)

Red plug (5-pin)

- **Used for:** 6 kW or 9 kW electric heaters
- **Connection type:** Three-phase



Figure 21. Red 5-pin plug (three-phase, 6–9 kW)

What you need to do

We supply the plug **only**, not the full electrical connection. To power your hot tub, you or your electrician must prepare a **matching adapter** that connects to your local power supply, as shown in Figures 22 and 23.



Figure 22. Matching socket for the red 5-pin plug



Figure 23. Matching socket for the blue 3-pin plug

Important notes

- **Always use a qualified electrician** to make the connection!
- Ensure proper protection with a **circuit breaker and residual current device (RCD)**.
- Do not modify the supplied plug — make the adapter separately.
- Keep all electrical connections **dry and protected from water**.
- The wire used should match the power requirements: 3 kW — minimum 3 × 2.5 mm² copper cable; 6–9 kW — minimum 5 × 2.5 mm² copper cable (depending on length).

7. Sand Filtration System

Safety information

1. This sand filter is designed for water temperatures between 0 °C and 45 °C. Operating outside this temperature range may cause damage to the system.
2. Installation must comply with general swimming pool safety regulations and the specific guidelines of the installation site.
3. Installation must be performed by qualified personnel who have thoroughly read and understood this manual. Improper installation may lead to equipment failure, serious injury, or property damage.
4. Safety is only guaranteed if the installation and usage instructions are followed precisely.
5. This product must not be used by children or left within their reach.
6. Pool chemicals should never be stored near the filtration equipment. Chemical fumes or spills may cause corrosion, potentially leading to equipment failure and hazardous situations.
7. Any modifications to the system require prior written approval from the supplier. Use only original replacement parts and accessories approved by the manufacturer. The manufacturer assumes no responsibility for damage or injury caused by unauthorized components.
8. In case of malfunction or irregular performance, contact your supplier or an authorized service representative.

7.1 Filtration system operating principle

Water enters the filter through a 4-way valve and is directed to the top of the sand bed. As the water flows downward through the sand, particles and debris are trapped. The filtered water exits from the bottom of the tank, passing through the valve and returning to the pool circulation system.

7.2 Preparation before installation

1. Position the filter as close to the pool as possible to minimize piping resistance.
2. Place the filter on a level, stable surface such as a concrete slab or solid ground. The surface must support the weight and prevent shifting or sinking.
3. Ensure sufficient space around the filter for plumbing connections, maintenance, and future servicing.
4. The identification label should face forward and remain clearly visible.

7.3 Installation of the Mini Saturn filtration system

7.3.1 Install the drain plug

Attach the drain plug to the bottom of the filter tank (Figure 24).

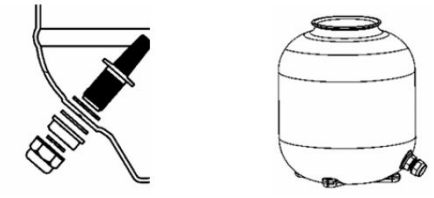


Figure 24. Installing the drain plug

7.3.2 Position the tank on the base

- Place the tank onto the base and rotate it until it locks into place.
- Ensure the drain plug is facing outward as shown in the illustration (Figure 25).

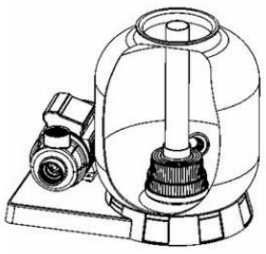


Figure 25. Positioning the tank on the base

7.3.3 Insert the diffuser tube and add sand

- Insert the vertical tube with the diffuser inside the tank.
- Place a funnel on the tank opening and add approximately 27 kg of quartz filter sand (Figure 26).

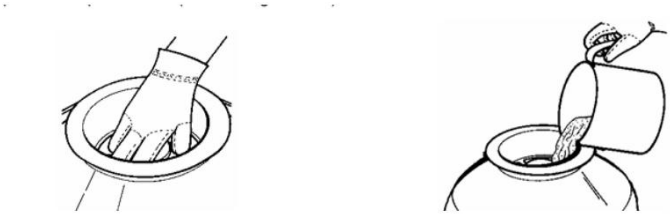


Figure 26. Inserting the diffuser tube and adding filter sand

7.3.4 Install the multiport valve

- Remove the funnel and clean the tank opening thoroughly.
- Place the O-ring on the valve.
- Position the valve so that the “PUMP” and “WASTE” ports align correctly, and secure it with the clamp (Figure 27).



Figure 27. Installing the multiport valve

7.3.5 Connect the pump and tank

- Use the provided hoses, hose clamps, and adapters to connect the pump outlet to the filter inlet (Figure 28).



Figure 28. Pump and tank connected

7.4 Installation notes

1. Ensure the filter operates within the recommended working pressure.
2. If the pump is installed above the pool water level, install a check valve.
3. If the pump is installed below the pool water level, install an isolation valve.
4. Minimize the number of hose bends and connectors to reduce resistance.
5. Avoid excessive use of solvent on fittings to prevent O-ring damage.
6. Do not overtighten hose clamps or connectors.

7.5 Initial start-up procedure

1. Confirm that all hose connections are secure and correctly installed.
2. Set the valve handle to the **BACKWASH** position.
3. Prime the pump and start it according to the pump's instructions. All suction and pressure valves must be open before starting. ***Ensure the filter is filled with water before switching the pump on — running the pump dry can cause damage.***
4. Once a steady water flow is observed from the waste outlet, run the pump for at least 2 minutes to flush impurities from the sand.
5. Turn the pump off, set the valve to **RINSE**, then restart the pump. Run for 30 seconds to 1 minute until the sight glass shows clear water.
6. Turn the pump off again, set the valve to **FILTER**, and start the pump. The system is now in regular filtration mode.

7.6 Operation and maintenance notes

1. Record the pressure gauge reading immediately after the initial start-up. This is your system's “clean” pressure.
2. When the pressure increases by 0.55–0.69 bar (8–10 PSI), backwashing is required to clean the sand.
3. Always turn the pump off before changing the valve position to prevent damage.

4. Regularly clean the pump strainer and skimmer baskets to maintain performance and avoid damage.

7.7 Valve functions

- **FILTER:** Normal filtration and vacuuming.
- **BACKWASH:** Cleans the sand by reversing the water flow. Run until the wastewater is clear (approx. 2 minutes).
- **RINSE:** Removes remaining debris after backwash. Run for 30 seconds to 1 minute.
- **WINTER:** Open position to relieve pressure during winter storage and prevent O-ring compression.

7.8 Measurements

Diameter (mm)	Connection (inches)	Flow rate (m^3/h)	Max pool size (m^3)	Filtration area (m^2)	Sand capacity (kg)
350	1.5	7	32	0.11	34

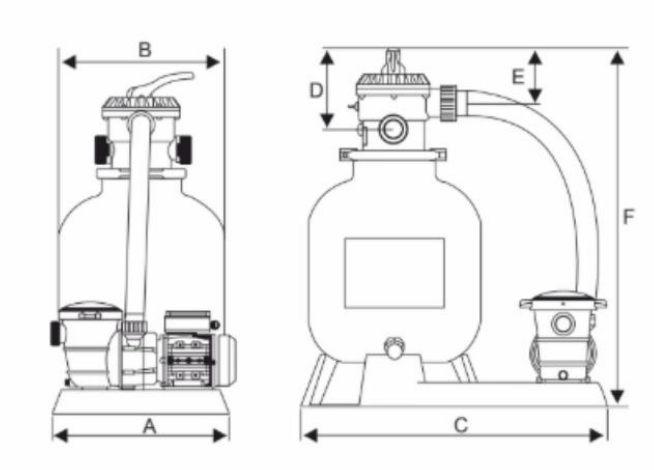


Figure 29. Filtration system dimensions

Dimension	mm
Ø	350
A	300
B	350
C	502
D	167
E	167
F	655

8. Skim Filter Installation and Operation

The hot tub comes equipped with a **pre-installed skim filter** system designed to keep your water clean by filtering out debris and impurities. To ensure optimal performance, you will need to install the filter cartridge before use. Please follow the steps below.

Installing the filter cartridge

1. **Unscrew the filter cap:** Locate the skim filter inside your hot tub. Using your hands, gently unscrew the top of the filter by turning it counterclockwise (Figure 30).
2. **Insert the cartridge:** Remove the filter cartridge from its plastic packaging. Insert the cartridge into the filter housing, ensuring it is seated properly (Figure 31).
3. **Secure the filter cap:** Screw the filter cap back onto the housing by turning it clockwise until it is firmly in place. Do not overtighten.

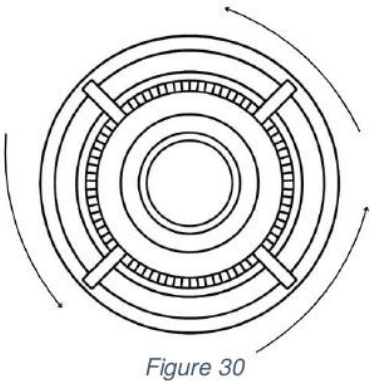


Figure 30. Unscrewing the filter cap (counterclockwise)

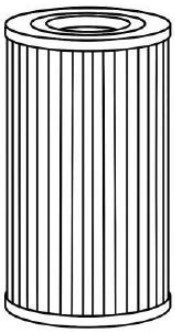


Figure 31. Skim filter cartridge

Activating the skim filter

To activate the skimmer filter, simply press the **“Filter”** button located on the side control panel of the hot tub. The filtration system will begin circulating and cleaning the water (Figure 32).

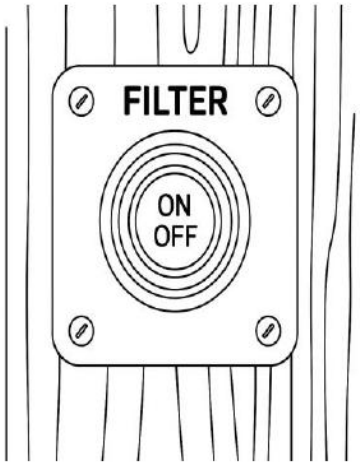


Figure 32. Filter button on the side control panel

Note: Regularly check and clean or replace the filter cartridge as recommended in the maintenance schedule to maintain water quality and prolong the life of your hot tub.

If you have any questions regarding the skim filter installation or operation, please refer to the troubleshooting section or contact customer support.

9. Warranty Terms & Conditions

We stand behind the quality of our products and offer a comprehensive warranty for your peace of mind. **A 24-month warranty applies to hot tubs used for private (domestic) purposes, and a 12-month warranty applies to hot tubs used for commercial purposes, such as rental or public use.** The warranty period begins on the date of purchase as indicated on the original invoice.

To maintain warranty validity, proof of purchase must be provided, and all claims must be submitted to the original dealer. The warranty covers manufacturing defects but **excludes normal wear and tear, surface discoloration, scratches, damage caused by improper installation or use, freezing, overloading, unauthorized modifications, and consumables such as filters and seals. Damage resulting from failure to follow the user manual is also not covered.**

In the event of a defect, the manufacturer will repair or replace the affected part at no cost. Transportation costs may be covered if arranged in advance; otherwise, they are the responsibility of the customer. If return or pickup is required, the hot tub must be safely placed on a pallet in an area accessible by truck. Repairs carried out on-site require clear and safe access to the electrical system. Transport damage caused by poor packaging is not covered.

To submit a warranty claim, contact your dealer or sales representative and provide the purchase invoice, a detailed description of the issue, and clear photo or video evidence. Claims without proper documentation cannot be processed. Upon review, the dealer or our support team will advise on the appropriate course of action, which may include repair, replacement, return, or on-site service.

Please note: This warranty does not cover indirect damages or loss of business. Any unauthorized repairs or the use of non-approved parts will void the warranty.

These warranty terms are an integral part of your hot tub user manual. For assistance, please contact your dealer or our customer service team.