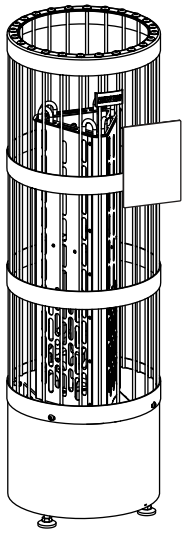
Harvia Legend

Electric sauna heater
Instructions for installation and use

Let's sauna.

Item no.	Type	Power
HPO704FC	PO70FC	6,8 kW
HPO1104FC	PO110FC	10,8 kW



EN
DE
FR
NL
FI
SV
ET
LV
LT
RU
PL
CS
SL
ES
IT

Congratulations on your excellent choice of sauna heater!

A Harvia sauna heater works best and will serve you for a long time if used and maintained as described in this manual. Please read the instructions before installing or using the sauna heater. Keep the guide for future reference. Installation and operating instructions can also be found on our website at www.harvia.com.

EU Declaration of Conformity

Harvia Finland Oy declares that the product is in compliance with the:

- Low Voltage Directive (LVD) 2014/35/EU
- Radio Equipment Directive (RED) 2014/53/EU
- Electromagnetic Compatibility Directive (EMC) 2014/30/EU
- Restriction on hazardous substances Directive (RoHS) 2011/65/EU

The full text of the EU Declaration of Conformity is available at:

EN

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1. SAFETY INSTRUCTIONS

1.1. Warning and information symbols



Please read the warnings and instructions carefully before you use the device.



WARNING! Failure to heed this warning could result in serious injury or death.



CAUTION! Failure to heed this warning may result in minor or serious injury.



Do not cover!

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Beware of hot water vapour when using the device

1.2. Installation safety

- This product is designed for heating the sauna room to the desired temperature, creating humidity when pouring water onto the heater stones and controlling the sauna functions. The product must not be used for any other purpose!
- The device may only be connected to the mains by a qualified electrician in accordance with the regulations in force. The person responsible for the installation of the device must provide the user with the installation and operating instructions supplied with it, as well as the necessary training, before handing over the installation work.
- Always disconnect the device from the mains before servicing!
- Inspect the device for visible damage before installation and commissioning. Do not use a damaged device.
- Always observe the values given in the instructions for use of the device. Deviating from them causes a fire hazard.
- Do not connect the power supply to the electric heater via a residual current circuit breaker. Verify local requirements.
- Only one electric heater may be installed in the sauna, unless otherwise stated in the instructions.
- The device must be installed in such a way that the warning texts remain easily readable after installation.
- The sauna heater or device must not be installed in a wall recess, unless otherwise specified in the instructions for use.

- If a safety railing is installed around the heater, the safety distances specified for the heater or in the installation instructions of the safety railing must be observed.
- If you want to install accessories for the device, always follow the instructions for each specific accessory when installing or using them.
- Ensure adequate ventilation in the sauna room (air should be changed six times an hour).
- Do not position the supply air vent so that the air flow cools the heat sensor (see heat sensor installation instructions).
- If the mains cord is damaged, either the manufacturer or maintenance representative or other qualified person must change it to prevent any hazards.
- The use of a PVC insulated cable as the sauna heater connection cable is prohibited due to its thermal fragility.
- Always check the condition of the sauna junction box connectors when installing the sauna heater. We recommend screw connectors. Avoid spring-loaded connectors!
- If the device is used in a public sauna without a timer, the power indicator light should be placed in the room from which the device is used.
- Always wear protective gloves during installation and maintenance and when adding sauna stones.
- Cover the heating elements completely with stones; a glowing bare heating element can cause a fire hazard!
- Do not place any objects or devices in or near the stone space of the sauna heater that could change the amount or direction of air flow through the heater.

1.3. Use and bathing safety

- This device may be used by children aged 8 or over and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, provided they are supervised or instructed in the safe use of the device and understand the risks involved.
- Children are not allowed to play with the device. Children must not clean the appliance or perform any maintenance on the device without supervision.
- Exercise caution with the sauna heater when it is hot. The stones and metal parts of the sauna heater are hot enough to burn the skin.
- Always check that there are no objects on or near the sauna heater before switching it on.

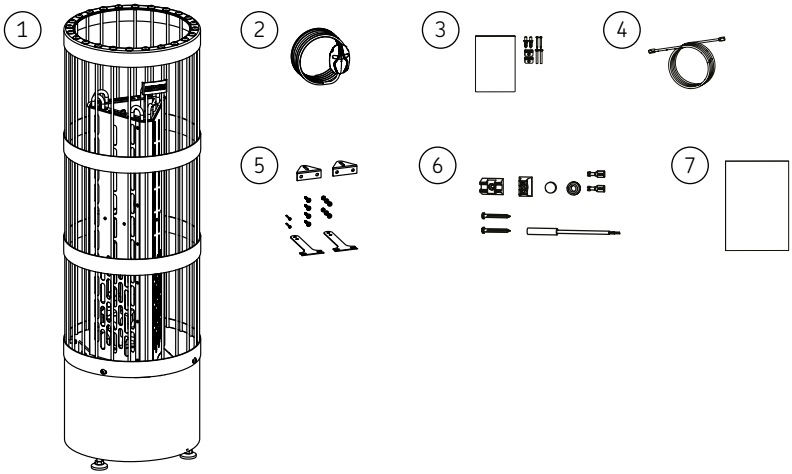
- Ensure adequate ventilation the first few times the sauna heater is heated, as the sauna heater might produce an odour.
- Do not throw or pour too much water on the sauna heater at once, as this could cause scalding splashes.
- Do not throw water on the sauna heater when someone is near it.
- Do not use a ladle with a capacity greater than 0.2 litres.
- Do not use any type of water other than that specified in the sauna heater instructions.
- If using sauna fragrances in the water, only use fragrances intended for sauna water and follow their instructions for use.
- Prolonged time in a hot sauna raises body temperature, which may be dangerous.
- Keep children away from the sauna heater.
- Do not leave children, individuals with reduced mobility, the ill or otherwise infirm in the sauna alone.

EN

- Check with a doctor if you have any health restrictions related to sauna use.
- Be careful when moving in the sauna, as the sauna benches or floor surfaces can be slippery.
- Do not enter a hot sauna if you are under the influence of alcohol, medicines, narcotics or any other intoxicating substances.
- Do not sleep in a heated sauna.
- A marine climate and other humid climates can corrode the metal surfaces of the sauna heater.
- Due to the risk of fire, do not use the sauna as a drying room for laundry. Electrical devices can also be damaged by high humidity.
- Do not reset the overheat protector by pressing the reset button until the cause of its tripping has been determined. The overheat protector should only be reset by a qualified service technician, unless otherwise stated in the instructions.
- When the on-time has elapsed, check that the sauna heater has definitely switched off and stopped heating.
- Hot stone chips falling from the sauna heater can damage floor coverings and cause a fire hazard.
- In public saunas where the sauna heater is used without a timer or continuously for longer periods than the factory-set timer on the sauna heater or control unit allows, the device must be monitored continuously.
- The sauna room and the area around the sauna heater should always be inspected before the sauna heater is switched on again or switched on remotely.
- The sauna room and the sauna heater environment should always be inspected before the device is put into standby mode for remote control or pre-timed operation.

- According to the product standard IEC/EN 60335-2-53 for electrically heated sauna heaters, control units with a remote start function may be used to control and regulate the sauna heater when an appropriate safety switch-off mechanism (door or safety switch) is installed on the sauna heater or sauna door.
- All maintenance operations requiring special skills must be carried out by a trained professional.

2. DELIVERY CONTENTS



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1. Sauna heater	5. Fixing kit
2. Temperature sensor (125 °C)	6. Door sensor
3. Control panel + mounting hardware	7. Instructions for installation and use
4. Data cable (5m)	

3. INTENDED USE OF THE PRODUCT

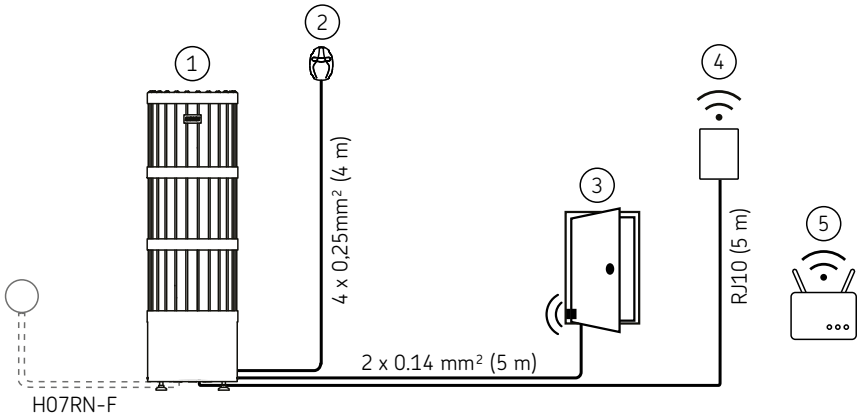
This product is designed for:

- heating the sauna room to the desired temperature
- creating humidity when pouring water onto the heater stones
- controlling the sauna functions

The product must not be used for any other purpose!

WARNING – Use the product only in accordance with these instructions! Any use exceeding this scope is considered improper use. Improper use can result in damage to the product, severe injuries or death

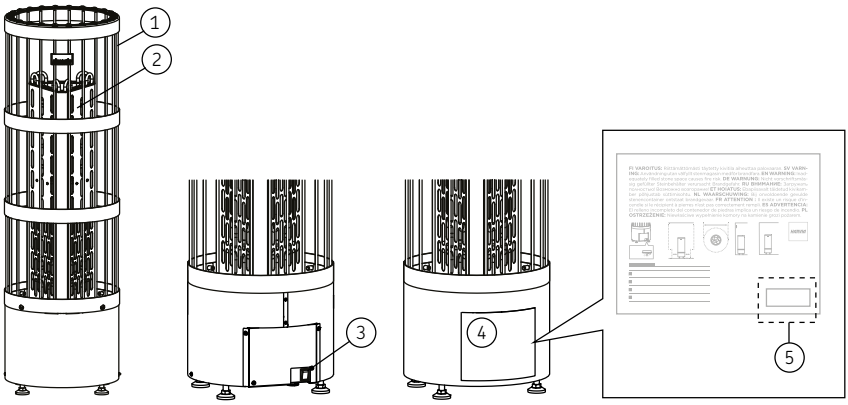
4. INSTALLATION EXAMPLE



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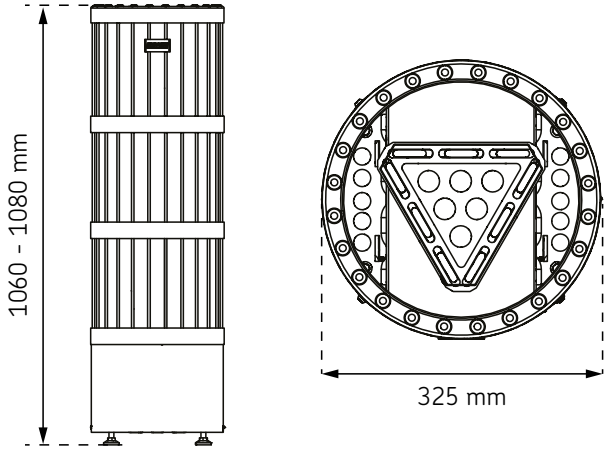
1. Sauna heater	4. Control panel
2. Temperature sensor (125 °C)	5. WiFi router
3. Door sensor	

5. MODEL SPECIFICATION



1. Outer case	4. Type plate
2. Air channel	5. Serial number
3. Main switch	

5.1. Specifications

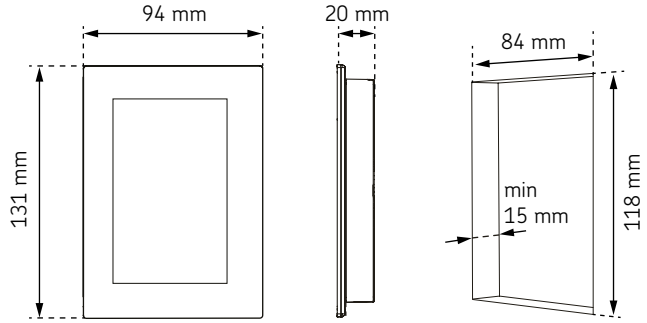


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5.1.1. Heater

INSTALLATION DATA		
	P0704FC	**P01104FC**
Power, sauna heater	6.8 kW	10.8 kW
Operating voltages	400 V 3N~ 230 V 3~ 230 V 1N~	400 V 3N~ 230 V 3~ 230 V 1N~
Frequency	50 / 60 Hz	50 / 60 Hz
Supply cable 400 V 3N~	5 x 1,5 mm²	5 x 2,5 mm²
Supply cable 230 V 3~	4 x 2,5 mm²	4 x 6 mm²
Supply cable 230 V 1N~	3 x 10 mm²	3 x 10 mm²
Type of connection cable	H07RN-F or equivalent	H07RN-F or equivalent
Temperature sensor	125 °C	125 °C
Temperature sensor, cable	4 x 0,25 mm² (4m)	4 x 0,25 mm² (4m)
Protection class	IPX4	IPX4
Storage temperature	0-50 °C	0-50 °C
DIMENSIONS		
	P0704FC	**P01104FC**
Height (mm)	1060 - 1080	1060 - 1080
Width (mm)	325	325
Depth (mm)	325	325
Weight (kg)	18	18,5

SAUNA ROOM		
	PO704FC	**PO1104FC**
Room volume (m³)	6-10	9-18
Minimum sauna height (mm)	1900	1900
HEATER STONES		
Size of stones Ø (cm)	5–10	
Quantity of stones (max. kg)	100	
Suitable stone materials	peridotite, olivine diabase, olivine, vulcanite.	
Suitable stone type	split-face stones, rounded stones	
APPROVED ACCESSORIES		
Legend safety rail	HPO3	
Legend safety rail, illuminated	HPO3L	
Leged protective sheat	HPO11	
Legend embedding flange	HPO2	
Embedding flange, illuminated	HPC2L	
Heater extension base 230x310mm	HPC20	
Harvia safety switch	SFE-D350	
Data cable 10 m	SP315	



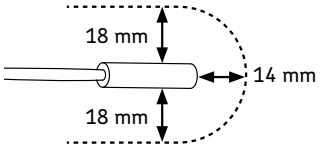
5.1.2. Control panel

INSTALLATION DATA	
Name	Fenix control panel
Ambient temperature	-10 - +75 °C
Air humidity	max.99 rH
Protection class	IPX4
Operation voltage	12 - 24V DC, max.3 W

Power consumption	ca. 600 mW	
Connection cable RJ10, 4 poleConnection: +12VDC, GND, RS485A+B	max. 10 m	
WiFi network	2.4 GHz (802.11 b/g/n)	
Speed [MBps]	down 0.6, up 0.2	
Ports (must be open)	8883, 443, 8443	
DIMENSIONS		
Height	131 mm	
Width	94 mm	
Depth	20 mm	
Weight	204 g	
MOUNTING		
Dimensions for cut out	84x118x15 mm	
Type of mounting	flush-mounted, surface-mounted	
Installation in the sauna room	only flush-mounted	
Installation height in the sauna room	max. 1200 mm (panel temp. max. 75°C)	
Distance to the sauna heater in the sauna room	Heater < 7 kW *)	500 mm
	Heater > 7 kW	1000 mm

*) In a small sauna with heater < 7 kW the control panel can install with 500 mm from the heater.

5.1.3. Door sensor

INSTALLATION DATA	
Dimensions, door sensor	Ø 6 x 32 mm
Dimensions, door sensor holder	20 x 15 x 10 mm
Dimensions, magnet	Ø 10 x 3 mm
Dimensions, magner holder	18 x 12 x 15 mm
Connection cable	5 m - 2 x 0.14 mm²
Operating temperature	-20 - 85 °C
Switching distance	

6. BEFORE INSTALLATION

6.1. Select the right sauna heater

Select your sauna heater model carefully. Underpowered sauna heaters need to be heated for longer and at a higher temperature, which will eventually shorten their lifespan.

- Select a sauna heater with applicable power for your sauna room. Refer to *> 5.1. Specifications* for the sauna room size ranges for each sauna heater model. Refer to *> 6.1.1. Sauna heater output* for the effect of materials and insulation on the necessary sauna heater output.
- If you need help to select a sauna heater, please contact your dealer, a factory representative or visit our website (www.harvia.com).

6.1.1. Sauna heater output

The volume and structures of the sauna affect the selection of heater power. The power requirement increases if there are window surfaces or heat-storing surfaces such as brick, concrete or massive logs in the sauna

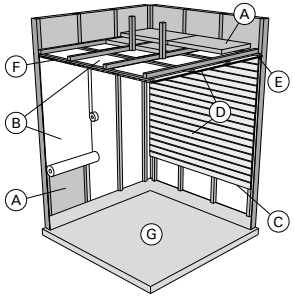
- When the walls and ceiling are panelled and there is sufficient insulation behind the panels, the sauna heater power is determined based on the volume of the sauna.
- Uninsulated wall surfaces (brick, glass brick, glass, concrete, tile, etc.) increase the need for sauna heater power. Add 1.2 m^3 to the sauna volume for every square metre of uninsulated wall surface. For example, a 10 m^3 sauna room with a glass door is equivalent to a sauna room of about 12 m^3 in terms of its a power requirement.
- If the sauna room has log walls, multiply the volume of the sauna by 1.5. *> 5.1. Specifications*

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6.2. Sauna room insulation, materials and structure

NOTE: Check with the fire authorities which parts of the firewall can be insulated. Flues in use must not be insulated.
NOTE: Lightweight protection installed directly on the wall or ceiling surface can create a fire hazard.
NOTE: Water on the sauna floor must be directed to a floor drain

A. Insulating wool, thickness 50-100 mm. The sauna room must be carefully insulated to keep the sauna heater output at a reasonably low level.
B. Humidity barrier, e.g. aluminium paper. Place the shiny side of the paper facing the interior of the sauna. Tape the seams tightly with aluminium tape.
C. Approximately 10 mm ventilation gap between the humidity barrier and the panel (recommended).
D. Panel board with a small mass and a thickness of 12-16 mm. Before starting the panelling, check the electrical wiring of the devices and the reinforcements required for the sauna heater and the benches in the walls.
E. Approximately 3 mm ventilation gap between the wall and ceiling panels.
F. The height of the sauna is usually 2,100-2,300 mm. The minimum height depends on the sauna heater. The distance between the upper bench and the ceiling should not exceed 1,200 mm.
G. Use ceramic floor coverings and dark jointing materials. Loosened particles from the stones and contaminants in the sauna water can soil and/or damage delicate floor coverings.



6.3. Ventilation in the sauna room

- The air in the sauna room should change six times an hour.
- **Mechanical ventilation:** The supply air vent must be located in the upper part of the sauna so that it does not interfere with the operation of the temperature sensor. *> Figure 4. Minimum distance from the supply air vent to the temperature sensor*
- **Pressure ventilation:** The supply air vent should be installed below or next to the sauna heater. The diameter of the supply air vent should be between 50 mm and 100 mm.
- Exhaust air vent: Place the exhaust air vent as far away from the sauna heater as possible and close to the floor. The diameter of the exhaust air vent should be twice the diameter of the supply air vent.
- Possible drain valve (closed during heating and bathing). You can also dry the sauna by leaving the door open after the sauna.
- If the exhaust air vent is on the washroom side, the threshold gap of the sauna door must be at least 100 mm. Mechanical exhaust ventilation is mandatory.

7. INSTALLATION

7.1. Checklist for installation of the sauna heater

	Check that the heater is intact. Do not use a defective sauna heater. Report any damage in transit to the supplier.
	The sauna heater is suitable in terms of power and type for the sauna room in question. The sauna volume values must not be exceeded or fallen short of *> 5.1. Specifications*, *> 6.1. Select the right sauna heater*
	The supply voltage is suitable for the sauna heater. *> 5.1. Specifications*
	The sauna heater installation location meets the required safety distances *> 7.2. Heater safety distances*
	The control panel installation location meets the required safety distances *> 7.4.1. Control panel safety distances*
	The location of the temperature sensor/overheat protector is sauna heater-specific. Make sure that the sensor is installed according to the instructions. *> 7.3. How to install the temperature sensor*
	Make sure that the sauna heater stones are loaded according to the instructions. *> 7.8. Sauna stones*
	If accessories are to be installed, follow the product-specific instructions for installation and use.
	Please keep this manual for future reference.

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7.2. Heater safety distances

WARNING! – Fire hazard. Always observe the values given in the instructions.

- If a safety railing is installed around the heater, the safety distances specified for the heater or in the installation instructions of the safety railing must be observed.

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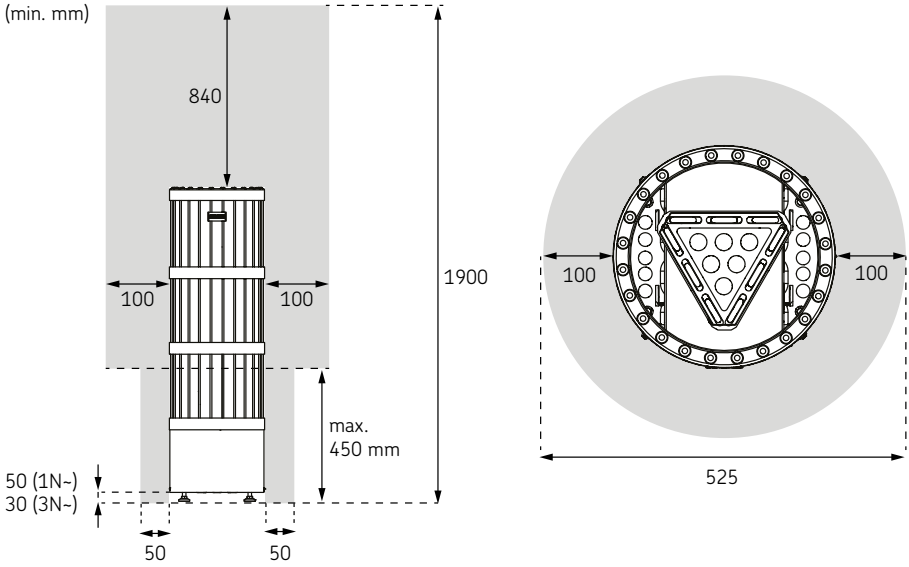


Figure 1. Minimum safety distances to combustible materials

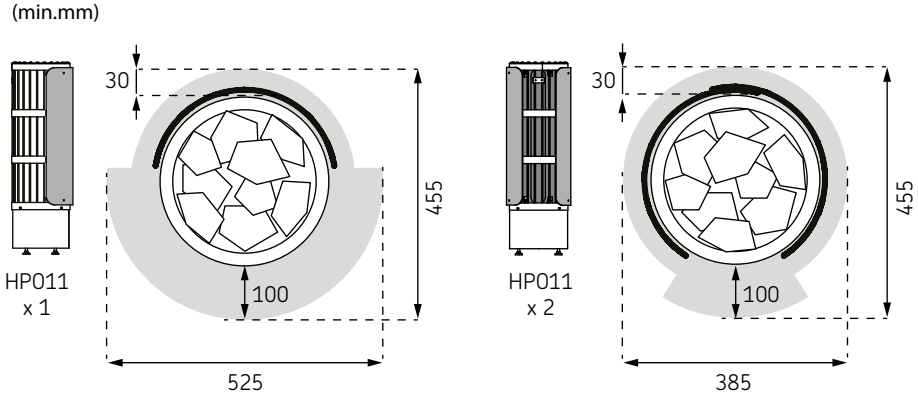


Figure 2. Minimum safety distances with protective sheat(s) HP011 (Optional accessory)

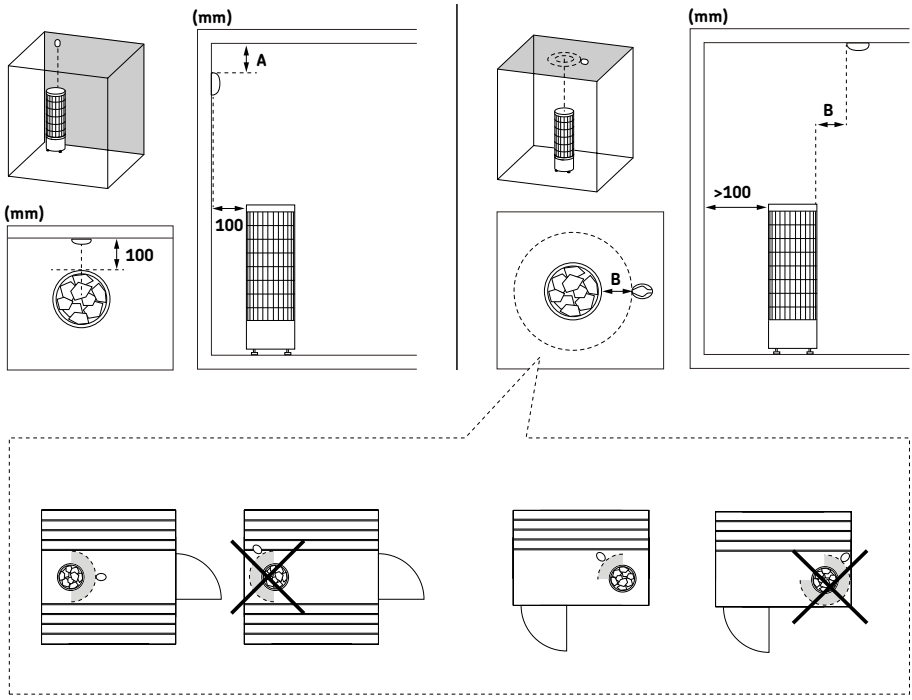
7.3. How to install the temperature sensor

The temperature sensor is equipped with an overheating protection that ensures the safety of the heater and the sauna.

The temperature sensor must always be installed in the specified place. If the minimum distance from the supply air vent is not met, the ventilation must be altered!

Do not position the supply air vent so that the air flow cools the heat sensor.

- Install the heat sensor as shown in the figure. If the sauna heater is installed further than 100 mm from the wall, the sensor must be installed on the ceiling.
- Minimum distance from the air vent to the temperature sensor is shown in figure *> Figure 4. Minimum distance from the supply air vent to the temperature sensor*. If the minimum distance from the supply air vent is not met, the ventilation must be altered!



	P070E	P0110E
A	50 mm	100 mm
B	50 mm	100 mm

Figure 3. Tempereature sensor minimum safety distances

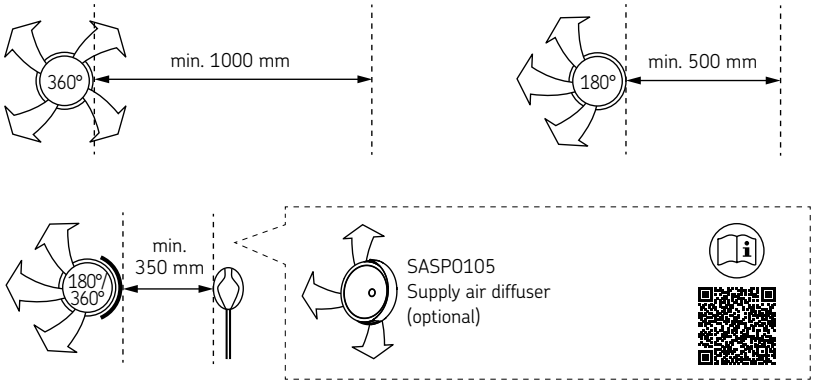


Figure 4. Minimum distance from the supply air vent to the temperature sensor

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7.4. How to install the control panel

CAUTION! – Burn injuries. Observe the installation conditions, especially when installing inside the sauna cabin. An incorrectly positioned control panel can become very hot and cause burns if touched!

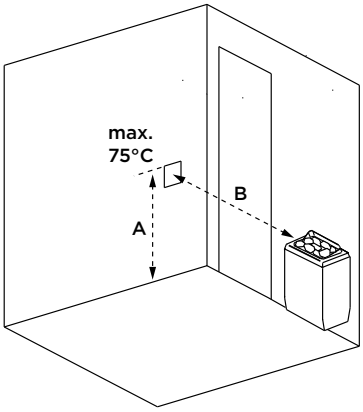
CAUTION! – Damage to the unit. Work on the control panel may only be carried out using a standard screwdriver. Do not use a power screwdriver.

Attention! Interference can impair signal transmission. The data cable must be laid separately from other mains cables and control cables.

- Always disconnect the device from the electricity network before carrying out any work. Please observe chapter *> 5.1. Specifications*
- An existing Harvia Xenio control panel can also be replaced by the Fenix control panel without the need for an electrician or changing wiring.
- The Fenix control panel is splash-proof, so it can be mounted both outside and inside the sauna cabin. Do not place panel outdoor without any cover.
- With the help of the cable piping in the wall constructions, the cable can be laid concealed to the mounting point of the control panel, at a maximum distance of 10 metres from the power unit.

7.4.1. Control panel safety distances

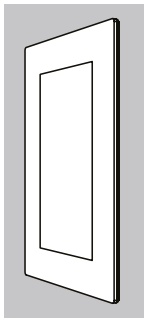
- Observe also *> 5.1. Specifications*
- Please ensure that the temperature of the panel never rises above 75°C.

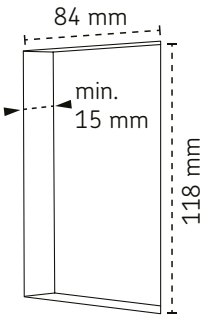


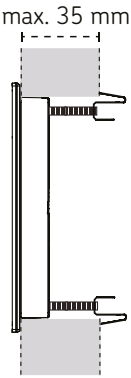
A	max. 1200 mm (panel temp. max. 75°C)	
B	Heater < 7 kW *)	500 mm
	Heater > 7 kW	1000 mm

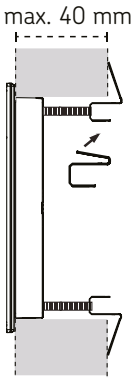
*) In a small sauna with heater < 7 kW the control panel can install with 500 mm from the heater.

7.4.2. Mounting control panel - flush mounted

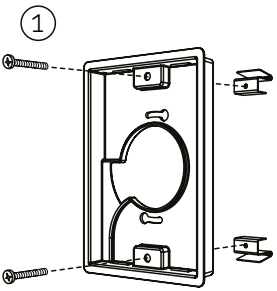


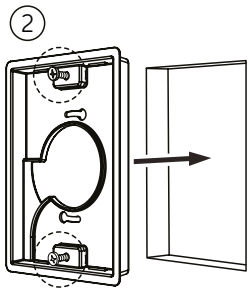


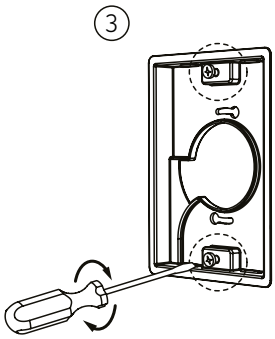


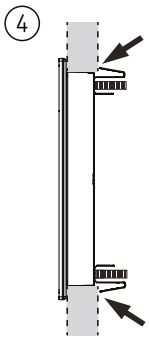


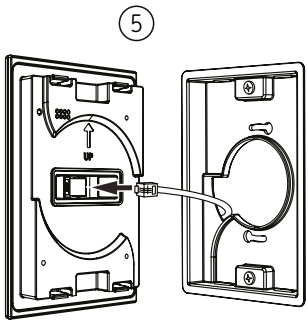
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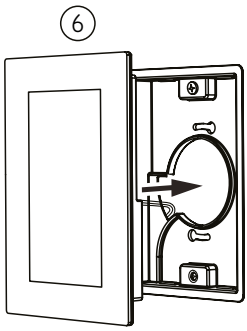




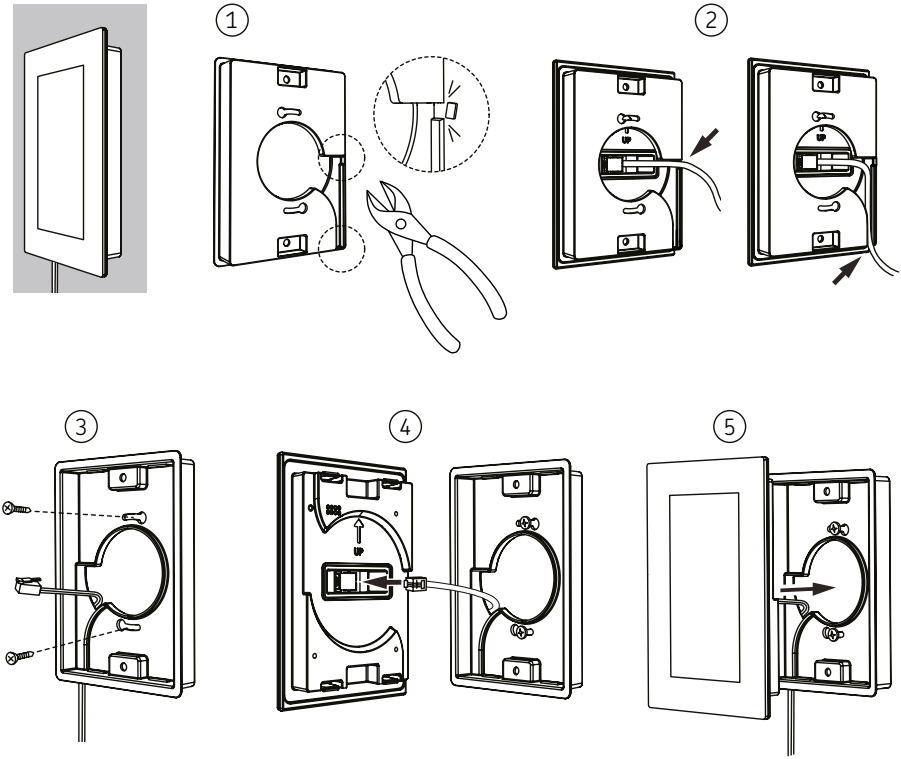








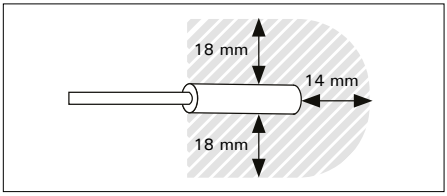
7.4.3. Mounting control panel - surface mounted

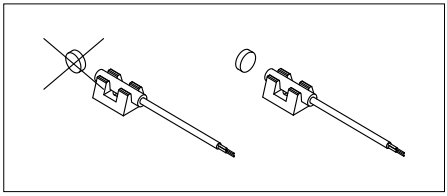


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7.5. How to install the door sensor

- Mount the door sensor near of the sauna door, taking account of the specifications *> 5.1.3. Door sensor*
- The door sensor set must be mounted so that contact with the door sensor is interrupted if the door is open by more than 10 cm.

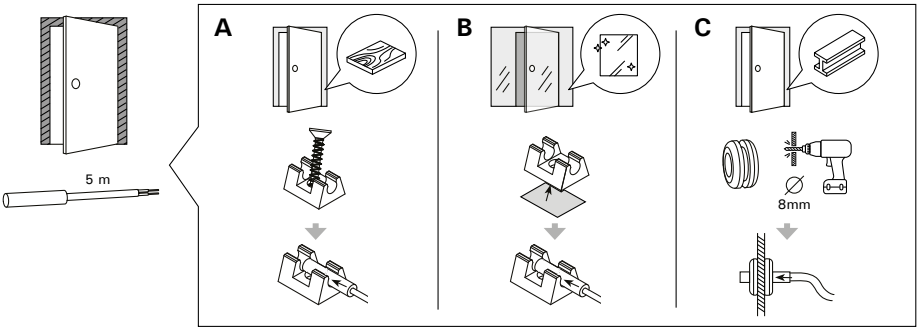




Mounting the sensor

A. For a wooden sauna cabin: Use the wood screws supplied.
B. For a glass surface: Use the double-sided adhesive tape.
C. For a metal door frame: Drill a hole 8 mm in diameter and insert the rubber seal.

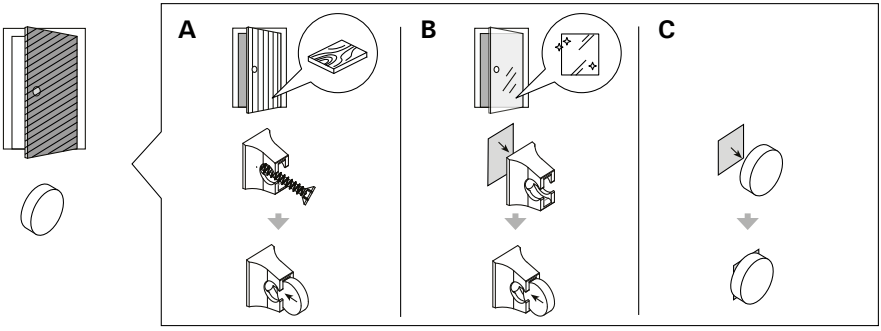
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Mounting the magnet

Attach the magnet to the sauna door with the magnet holder or with adhesive tape:

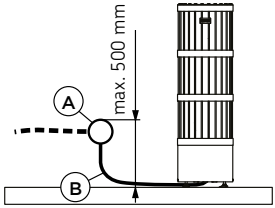
A. On a wooden door: Use magnet holder and the enclosed wood screw
B. For a glass door: Use the magnet holder and the double-sided adhesive tape
C. Use adhesive tape



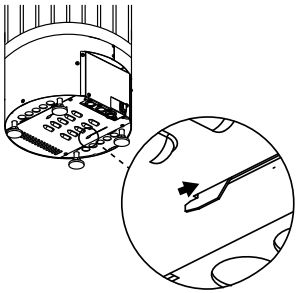
7.6. Electrical connections

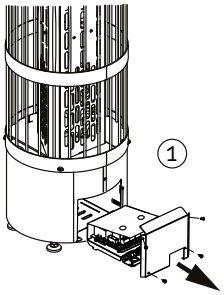
The sauna heater may only be connected to the mains by a qualified electrician in accordance with the regulations in force.

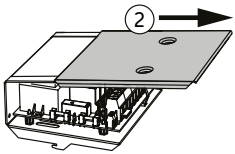
- The sauna heater is connected semi-fixed to the junction box on the sauna wall. The junction box shall be splash-proof and shall not be more than 500 mm above the floor *> Figure 5a. Electrical connections*.
- The connection cable should be of the rubber cable type H07RN-F or equivalent. **NOTE: The use of a PVC insulated cable as the sauna heater connection cable is prohibited due to its thermal fragility.**
- If the connection or installation cables are placed in the sauna or inside the sauna walls at a height of more than 1,000 mm above the floor, they must be able to withstand a temperature of at least 170°C under load (e.g. silicone sheathed cables). Electrical equipment installed more than 1,000 mm above the sauna floor must be approved for use at an ambient temperature of 125°C (marked T125).

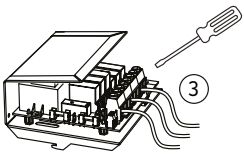


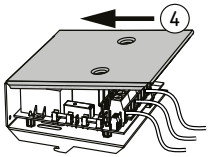
A.	Junction box
B.	Connecting cable

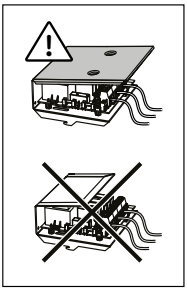


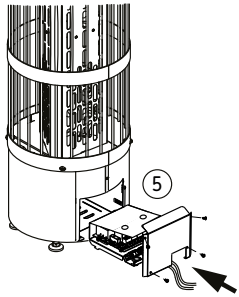












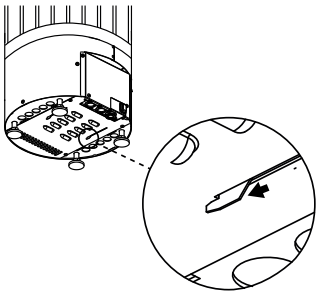
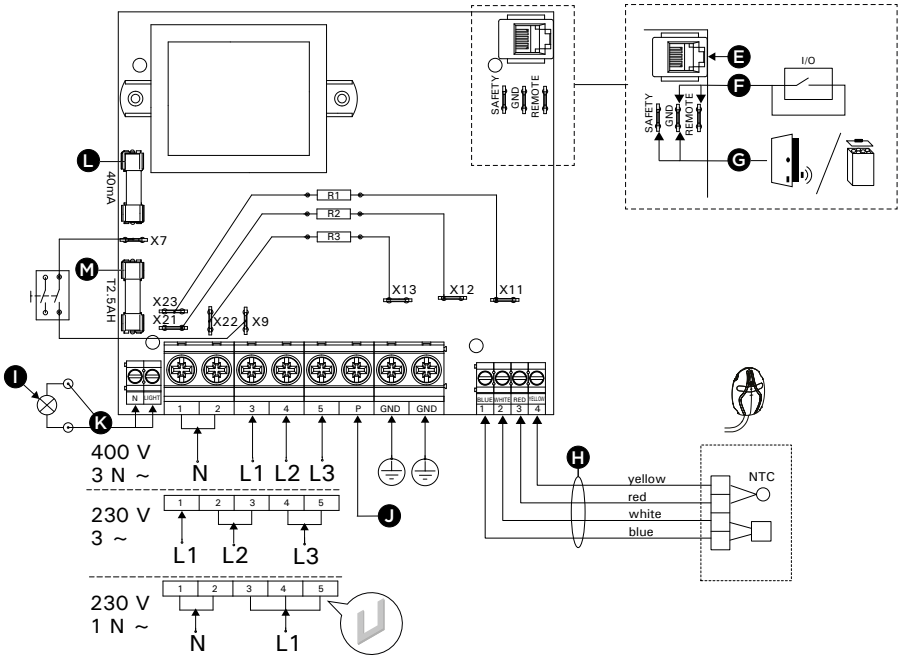


Figure 5a. Electrical connections

- In addition to supply connectors, the PO heaters are equipped with a connector (P), which makes the control of the electric heating possible > *Figure 5b. Electrical connections*. The control cable for electrical heating is brought directly into the junction box of the heater, and from there to the terminal block of the heater along a rubber cable with the same cross-section area as that of the connecting cable.
- The lighting of the sauna room can be wired so that it can be controlled from the control panel. (Max 100 W.)



E. Control panel
F. Remote switch
G. Safety Switch
H. Temperature sensor
I. Lighting (max. 100 W)
J. Control of electric heating
K. Residual current device
L. Fuse (T40 mA, 250 V, Breaking capacity 35 A, slow type, 5x20 mm)
M. Fuse (T2.5 Ah, 250 V Breaking capacity 1500 A, ceramic slow type, 5x20 mm)

Figure 5b. Electrical connections

7.6.1. Insulation resistance of the electric sauna heater

Do not connect the power supply to the electric heater via a residual current circuit breaker!

At the final inspection of the electrical installations, the sauna heater insulation resistance measurement may show "leakage" due to humidity in the air being absorbed (during storage/transport) into the insulating material of the heating elements. Moisture can be removed from the heating elements after a couple of heating cycles

7.7. How to install the heater

The device must be installed in such a way that the warning texts remain easily readable after installation.

1. Connect cables to the heater > *7.6. Electrical connections*
2. Place the heater > *7.2. Heater safety distances*
3. Adjust the heater vertically straight using the adjustable legs.
4. Use fixing kits (2 pcs) to fix the heater to sauna's structures.

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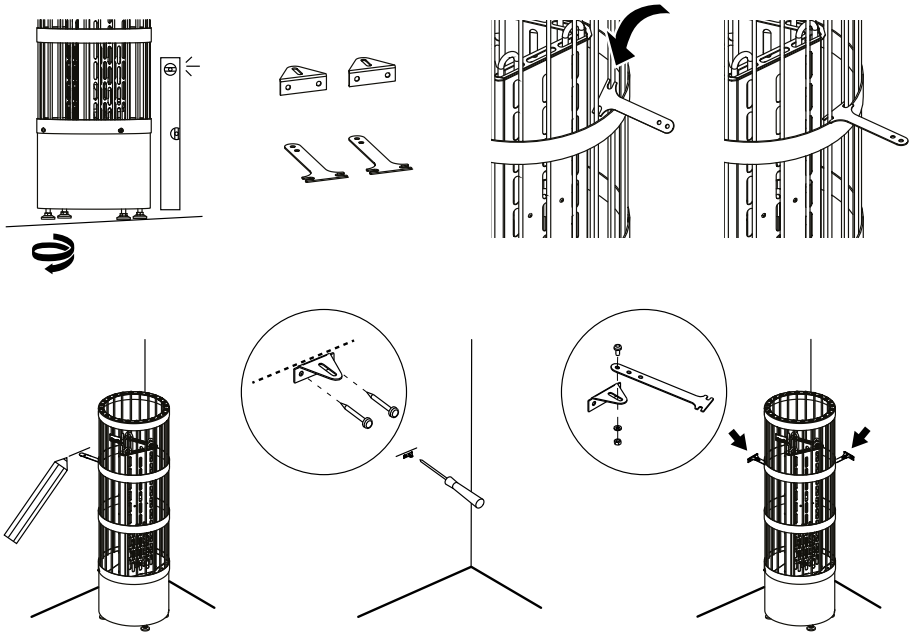


Figure 6. Sauna heater installation

7.8. Sauna stones

Sauna heater stones are important for the safety of the sauna heater. In order for the warranty to remain valid, the user is responsible for proper maintenance of the stone space in accordance with the specifications and instructions.

WARNING! – Fire hazard. Do not place any items or devices in the sauna heater's stone space or vicinity that can change the amount or direction of air flowing through the sauna heater.

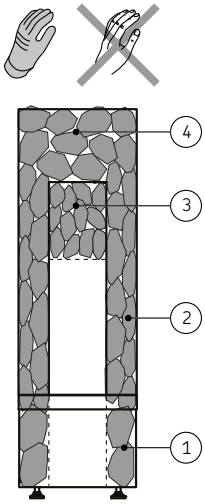
WARNING! – Fire hazard. If a heating element is not surrounded by stones, it can heat materials dangerously hot, even beyond the sauna heater's safety distances. Make sure that the heating elements are not visible beyond the stones.

- Suitable sauna stones > *5.1. Specifications*
- Decorative stones are only suitable on the top layer of the stone space. Decorative stones must be placed loosely to ensure sufficient air circulation. Place any decorative stones so that they do not touch the heating elements.
- The warranty does not cover any defects that have been caused by the use of decorative stones or by sauna stones not recommended by the manufacturer.
- Rinse any stone dust off the stones before placing them in the heater.
- Do not drop stones into the heater.
- Pile the stones so that they support each other instead of lying their weight on the heating elements.
- Support the heating elements with stones so that the elements stay vertically straight.
- We recommended that you keep some extra stones in store to replace broken ones or to add any if the stone level becomes lower over time.

7.8.1. How to place the sauna stones

Caution – Always wear protective gloves when placing the stones in the sauna heater. Metal parts may have sharp edges that can cause cuts.

1. Place the largest stones at the bottom of the heater. This provides a stable base.
2. Position the flattest stones tightly against the outer case, overlapping them so that the heating elements are not visible outside the frame. A dense stone layer prevents direct radiant heat from overheating nearby materials. Pay special attention to the corners where the heating elements are closest to the outer case.
3. Place smaller stones between the heating elements and around the upper part of the air channel.
4. Above the air channel, arrange the stones loosely. Round stones are recommended for this area. Loose placement and round shapes allow proper air flow through the heater.
5. Keep the stone level even with the top edge of the outer case. A high stone pile restricts air circulation and reduces heating efficiency.



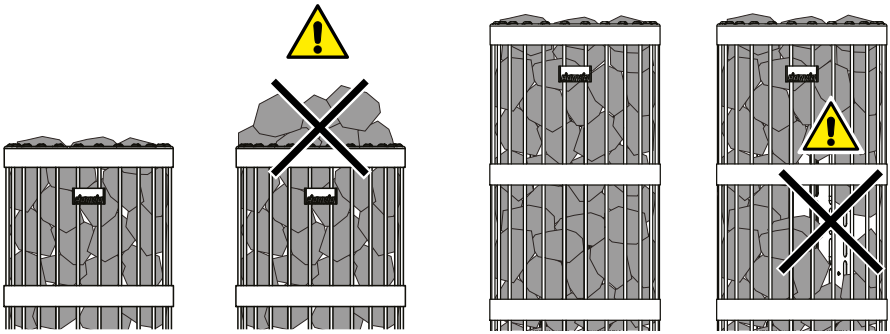


Figure 7. How to place the sauna stones

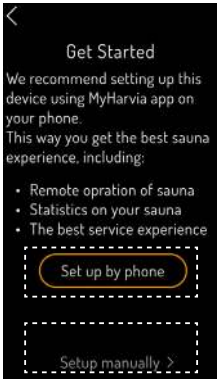
7.9. How to set up the product

- When the device is connected to the power supply and the main switch on the sauna heater is on, the control unit is in standby mode and is ready for operation. Follow the instructions on the display.
- The device will guide you through the set up process, making it easy to find the optimal settings for your sauna.
- Pairing and software updates should only be performed when the ambient temperature of the panel does not exceed 40 °C

7.9.1. Set up process

Step 1	
	**Start** **For end user to set up the product.** Requires WiFi connection. The device will guide through the set up process. **Test devices** **For electrician to test the product.** Used to verify functionality without a WiFi connection and to configure installed units. Designed for electricians who will not complete the full setup. After testing, the device returns to the set up screen. **WARNING! –Fire hazard. Always ensure that there are no objects on or within the safety distance zone of the sauna heater before switching it on.**

Step 2



Set up by phone (recommanded)
Make further settings in the MyHarvia App*
> 8.1.3. How to connect to MyHarvia app

Download the app through app store. You may also use the QR code displayed in Fenix during the installation for a direct link to the app.

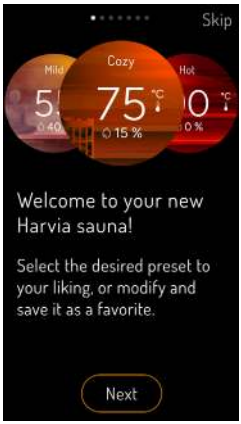
* Attention! Due to local restrictions, MyHarvia App cannot be downloaded in all countries.

Set up manually
If you want to use the control panel without the App. Make further settings on the control panel:Time - date - temperature unit - heater model - safety device - additional devices

To benefit from the latest improvements and securityupdates, we recommend establishing a WiFi connection at least once per quarter.

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Step 3



Setup finish
Once you have completed the set up, the Wizard will guide you to start your device.The functions and preset profiles (Mild - Cozy -Hot) are explained and can be later adjusted.

7.9.2. Settings

Settings	Options	Note
Temperature setting range	30 - 110 °C	recommended 50 - 90 °C
Adjustable heating time limit	2-6, 12, 18, 24 h	recommended 2h
Adjustable pre-set time	0 - 24 h	
Safety device	door sensor	Safety device required in remote use!
	safety switch	
	off	remote use disabled
Light	yes	

8. INSTRUCTIONS FOR USE

8.1 Fenix control panel

- The Fenix WiFi touchscreen control panel is designed to get you a great sauna experience. There are predefinied profiles to allow you an easy and comfortableway of operating your sauna.
- The Fenix WiFi touchscreen control panel can be connected with the MyHarvia App. For example, you can use the App to display the status of the sauna heater, the temperature in the sauna cabin and the remaining heating time anywhere and at any time.
- You need a reliable WLAN connection to use the MyHarvia App.
- The device should be connected to WiFi to ensure it always has the latest software version. This ensures optimal performance and a smooth, trouble-free operation.
- If the device is used without a permanent WiFi connection, we recommend performing a software update at least once per quarter to benefit from the latest improvements and security updates.

8.1.1. Operation

- Click on the buttons to discover the functions behind them.
- Touching the desired function takes you to the respective setting area
- **Note! The Illustration is a symbolic picture – depending on the equipment and the activate mode of the connected control unit, not all functions are visible**

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1. Menu
2. Time
3. Current humidity (sensor value)
4. Current temperature (sensor value)
5. Status heating time
6. Selected temperature (target value)
7. Selected humidity (target value)
8. Pulsating ring indicates that heater is on
9. Light - on/off
10. Satus door sensor
11. Timer functions
12. On/off



8.1.2. Menu settings

Screen lock	A screen lock can be configured (PIN) NOTE! If an incorrect PIN code is entered three times, you must wait one minute before trying again.
Control panel settings	• WiFi settings, languages, units • Display settings • Date and time • Factory Reset • Run setup wizard

Sauna settings	• Remote use • Memory for power failures (on / off) On: after a blackout / power failure the control unit starts automatically. Off: the system is shut down due the blackout. The on/ off- button must be pressed to restart the system Make sure that you observe the heater after a black out, if setting is On. NOTE! According to regional regulations it is may not allowed to use On. • Dehumification program (on / off) • Additional settings (Maximum ontime, rest period etc.)
Information	Software version, Wifi signal strength etc.
Statistics	Informations (total on time, total bathing time, sauna sessions)
Connect to MyHarvia	Reconnect device
Replay the on-boarding	You can replay / revisit the on-boarding

8.1.3. How to connect to MyHarvia app

1. After downloading the MyHarvia app, follow the instructions provided in the mobile application*.
2. Create and register a new MyHarvia-account and accept the necessary terms. You will receive a PIN code on your email-address (Please also check your SPAM folder).
3. After successful Login, add your Sauna by choosing the device "Fenix".
4. Start pairing at the control panel and the mobile app.
5. Confirm the Bluetooth pairing request and have your WiFi password ready.

***Attention! Due to local restrictions, MyHarvia app cannot be downloaded in all countries.**

8.2. How to use the sauna heater

WARNING! Always ensure that no objects are on or within the safety distance zone of the sauna heater before switching it on or activating the remote operation.

It is essential to check that the heater has turned off after the on-time has elapsed or the heater has been switched off manually.

- The sauna heater and the stones produce odours during the first use, the removal of which requires good ventilation in the sauna room.
- If the sauna heater is of the right power for the sauna room, a properly heat-insulated sauna room heats up to operating temperature in about an hour. The sauna heater stones usually heat up in the same amount of time as the sauna room.

8.2.1. Heater on

Start the heater by pressing the heater I/O button on the control panel.

- When the desired temperature has been reached in the sauna room, the heating elements are automatically turned off. To maintain the desired temperature, the heater will automatically turn the heating elements on and off in periods.

8.2.2. Heater off

The heater turns off and switches to standby-mode when
- the I/O button is pressed
- the on-time runs out
- an error occurs.

8.3. Remote use

WARNING! - Fire hazard. Always ensure that no objects are on or within the safety distance zone of the sauna heater before switching it on or activating the remote operation.

- According to the product standard IEC/EN 60335 -2-53 regulating electrical sauna heaters, a control panel can be used to remotely control the heater once the heater or sauna room door is equipped with a safety device (a door sensor or a safety switch).
- **Door sensor** is a magnetic switch in the door frame of the sauna cabin. The sauna room must be checked and the door must be closed for the remote start to be activated via the control panel.
- **Safety switch** is a device integrated in or installed above the sauna heater that prevents the heater from heating up if there is an object (e.g. a towel) on it that could become a fire hazard.
- To remotely control the heater's power input, the heater can be equipped with an on/off remote switch (e.g. building automation).
- **Preset time:** if the heater is on preset delay time, it cannot be controlled with a remote switch. After the preset delay has passed and the heater is turned on, it can be turned off with a remote switch.
- **Rest period (6h):** In remote use, rest period prevents heater from running within six hours of being turned off. It is a safety feature to prevent overheating or damage. The heater can be remotely started after the rest period has elapsed. Verify local requirements.

8.3.1. How to activate standby for remote operation (door sensor)

1. Select the desired profile or your settings.
2. Activate remote operation by pressing the door icon. A 30-second countdown will be displayed until the door is closed.
3. Check the sauna room and close the door. The door must be closed during the 30-second period.
4. The sauna heater is now ready to be started via the MyHarvia App.

If the sauna door is opened while the remote activation function is active, the system automatically prevents the sauna from being switched on remotely.

8.4. Throwing water

Do not use a ladle with a capacity of more than 0.2 litres. If too much water is thrown or poured onto the sauna heater at once, it can splash over the bathers as it boils hot.

To avoid the risk of burns, do not throw water on the sauna heater when anyone is near it.

- The air in the sauna dries out when the sauna is heated. It is therefore necessary to increase the humidity by throwing water on the sauna heater stones.
- Everyone experiences the effects of heat and humidity in their own way - experiment to find the right temperature and humidity for you.
- Aim to throw water only on the sauna heater stones

8.4.1. Water-quality requirements

- The water used in the sauna should meet the quality requirements for domestic water > *Table 1. Water-quality requirements.*
- Only fragrances intended for sauna water may be used. Follow the instructions provided with the fragrance.

Properties of water	Effects	Recommendation
Organic impurity	Colour, taste, precipitates	<12 mg/l
Iron content	Colour, smell, taste, precipitates	<0,2 mg/l
Manganese content (Mn)	Colour, smell, taste, precipitates	<0,10 mg/l
Water hardness: the main ingredients are calcium (Ca) and magnesium (Mg)	Precipitates	Ca: <100 mg/l Mg: <100 mg/l
Chloridic water	Corrosion	Cl: <100 mg/l
Chlorinated water	Health risk	Use prohibited
Sea water	Rapid corrosion	Use prohibited
Arsenic and radon concentrations	Health risk	Use prohibited

Table 1. Water-quality requirements

9. REGULAR UPKEEP AND MAINTENANCE

Sauna heater

- Wipe the sauna heater from time to time with a damp cloth to remove dust and dirt. Use mild detergents if necessary. Do not use running water when cleaning.
- Before starting cleaning, make sure that the device has cooled down completely.

Sauna heater stones

- Due to intense thermal cycling, the sauna heater stones will gradually deteriorate and crumble during use. Replace the stones at least once a year, or more often if the sauna is used very frequently.
- At the same time, remove any accumulated stone debris and replace any broken stones. This will ensure that the sauna heater's steaming properties are maintained and there is no risk of overheating.
- Check occasionally whether the stone level has become lower. Make sure that the heating elements do not become visible over time. The stone level is likely to become lower in about two months after the stones have been placed.

Control panel

- The device is maintenance-free. Clean the product with a slightly damp, soft cloth. Use only water or mild cleaning agents, never solvents or corrosive chemicals. Cloths that are too rough can cause scratches.
- Update takes place automatically when the device is connected to the WiFi.

10. TROUBLESHOOTING

All maintenance operations requiring special skills must be carried out by a trained professional.

Description	Cause / rectification
	• Errors and warnings will show at the display. Once the fault has been rectified, press OK or Delete to continue. If the error occurs again, please contact your supplier or use the link to the Frequently Asked Questions (FAQ).
Cannot connect to WiFi	• Make sure the WiFi network you're connecting to has a strong signal. The network name cannot contain any special characters.
WiFi connection is interrupted during setup	• The name of the WiFi network contains inadmissible characters.
Cannot connect to WiFi / WiFi connection terminates during setup	• The WiFi module requires access to port 8883 (secure MQTT), which must be opened in the firewall. Additionally, there must be access for Network Time Protocol (NTP) servers. Also check that other ports are not blocked, especially 443, 8443 and 8883..

WiFi is not connected after a power failure	• Switch the power supply to the sauna control unit off and on.
FENIX control panel does not light up	• Switch on the main switch on the power unit or heater. Check the data cable.
FENIX control panel switches off during operation.	• Check the installation conditions to see whether the temperatures on the control panel or the power unit are too high.
The sauna heater will not heat up	• Check that the sauna heater's fuses in the electrical panel are intact. • Check that the sauna heater's connection cable is plugged in. • Check that the overheat protector has not tripped
The sauna room heats up slowly. Water thrown onto the sauna heater cools the stones quickly	• Check that the sauna heater's fuses in the electrical panel are intact. • Check that all the heating elements glow when the sauna heater is on. • Set the temperature higher • Check that the sauna heater power is not too low. *> 5.1. Specifications* *> 6.1.1. Sauna heater output* • Check that the ventilation in the sauna room is correctly arranged. *> 6.3. Ventilation in the sauna room*
The sauna room heats up quickly, but the stones do not have time to warm up. Water thrown onto the sauna heater does not evaporate, but flows through the stone space	• Check that the sauna heater power is not too high. *> 5.1. Specifications* *> 6.1.1. Sauna heater output* • Check that the ventilation in the sauna room is correctly arranged. *> 6.3. Ventilation in the sauna room*
Panels or other material near the sauna heater darken quickly	• Make sure that the safety distance requirements are met. *> 7.2. Heater safety distances* • Check the sauna stones. Too tightly piled stones, the settling of stones with time or wrong stone type can hinder the air flow through the heater, which may result in overheating of surrounding materials. *> 7.8. Sauna stones*. • Make sure that the heating elements are not visible beyond the stones. If visible, restack the stones and make sure that the heating elements are completely covered. *> 7.8. Sauna stones*. **Note! It is normal for the wooden surfaces in the sauna room to darken over time. Darkening may be accelerated by** • sunlight • sauna heater heat • protective materials for wall surfaces (protective materials have poor heat resistance) • fine particles loosening from the sauna heater stones and rising with air currents.

The sauna heater produces an odour	• See point *> 8.2. How to use the sauna heater* • A hot sauna heater may intensify odours mixed in the air, but the sauna or the heater do not produce odours themselves. Examples: paints, glues, heating oil and spices.
The sauna heater produces noise	• Occasional bangs are usually caused by stones that crack in the heat. • Thermal expansion of the sauna heater parts may cause noise when the sauna heater heats up.

10.1. How to reset the overheat protector

The reason for the trip must be determined before the reset button is pressed.

- The temperature sensor is equipped with an overheating protection that ensures the safety of the heater and the sauna. If the temperature in the sensor's environment rises too high, the overheat protector cuts off the heater power. Resetting the overheat protector is shown in *> Figure 8. How to reset the overheat protector*

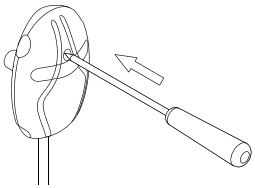


Figure 8. How to reset the overheat protector

11. SPARE PARTS

spareparts.harvia.com

12. WARRANTY TERMS

www.harvia.com

EN

Harvia Legend

Elektrosaunaofen
Installations- und Betriebsanleitung

Let's sauna.

Artikel Nr.	Typ	Leistung
HPO704FC	PO70FC	6,8 kW
HPO1104FC	PO110FC	10,8 kW

DE

