

Harvia Fenix WiFi

Touchscreen control panel

Instruction for installation and use



Let's sauna.

Itm.nr.
FX001XW
FX002XW



- EN
- DE
- FR
- ES
- FI
- SV
- ET
- NO
- LV
- LT
- RU
- HU
- CS
- PT
- NL
- IT



EUROPA:

FX1104XC
FX1104CXC
FX1704XC



EUROPA:

FX1804XC



USA/NA:

FX30-U1-U3-XC
FX45-U1-U3-XC



USA/NA:

FX30C-U1-XC
FX30C-U3-XC



Table of Contents

1. About this instruction manual	3
2. Important information for your safety	3
2.1. Intended use	4
2.2. Safety information for the installer	4
2.3. Safety information for the user	5
3. Product description	7
3.1. Delivery contents	7
3.2. Product functions	7
4. Technical data	8
5. Installation Fenix control panel	9
5.1. Safety distances	9
5.2. Mounting control panel - flush-mounted	10
5.3. Mounting control panel - surface mounted	11
6. Preperation	11
6.1. WiFi-Connection	11
6.2. Fenix set up	12
6.3. Web portal connection (harvia.io)	14
7. Operation control panel Fenix	15
7.1. Menu settings	17
7.2. Combi operation	18
7.3. Safety switch / door sensor (for Europe)	18
7.4. Activating standby for remote operation (for Europe)	18
8. Troubleshooting	19
8.1. Software version history	20
9. Connection to MyHarvia app	21
10.Maintenance	22
11.Disposal	22
12.Spare parts	22
13.Warranty terms	22

1. About this instruction manual



Read the instructions and warnings carefully before using the product!
Store it for future reference!



+



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...

also read the instructions for all supplied devices.

Significance of the warnings and symbol



WARNING!

Serious or fatal injury can occur if this warning notice is not observed.



CAUTION!!

Minor injuries can occur if this warning notice is not observed.

ATTENTION!

This keyword indicates a warning that property damage may occur.



This symbol indicates tips and useful information.

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2. Important information for your safety

The Fenix control panel has been manufactured in accordance with applicable safety regulations. However, potential hazards may arise during use. Therefore, please carefully observe the following safety instructions and the the specific warnings provided in each chapter. Additionally, follow the safety instructions for all connected devices.

2.1. Intended use

The control unit is meant for controlling the functions of sauna and an electric sauna heater.

The sauna heater is designed for the heating of a sauna room to bathing temperature.

It is not to be used for any other purpose!

The Fenix control panel is used for operating Harvia sauna products: Control units, electric sauna heaters or combi heaters. The Fenix control panel can only be connected to compatible Harvia products.

Any use exceeding this scope is considered improper use. Improper use can result in damage to the product, severe injuries or death.

For Europe:

A sauna heater that is controlled by the remote start function of the sauna control unit must pass the cover test in accordance with EN 60335-2-53 paragraph 19.101 and 19.102. If the heater does not meet this requirement, appropriate safety precautions must be taken (e.g. safety switch or door monitoring).

2.2. Safety information for the installer

- Always disconnect the device from the electricity network before carrying out any work (e.g. mounting, connection, maintenance)
- Check the device for visible damage before installing and using the device. Do not use a damaged device.
- Maintain the required minimum safety distances.
- Observe the installation instructions for the sauna control unit and sauna heater used.

- It is absolutely necessary to install the device according to values stated in the instructions of installation and use. Ignoring them causes a risk of fire.
- The device must be installed in such a way that the warning texts are easy to read after installation.
- The heater sensor must be installed in such a way that it is not affected by inflowing air.
- In public saunas, where the heater is used without a timer or continuously for longer than the timer of the heater or the control unit allows with the factory settings, the device must be constantly supervised.
- For your own safety, consult your supplier in the event of problems that are not explained in sufficient detail in the installation instructions.

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2.3. Safety information for the user

- Be aware of hot heater. The stones and metal parts of the heater may burn the skin. Never touch the sauna heater while it is operating.
- Observe the installation instructions for the sauna control unit and sauna heater used.
- The sauna room and surroundings of the heater must always be checked before the heater is switched on.
- The sauna room and surroundings of the heater must always be checked before the device is brought into standby mode required by remote control or pre-timed operation.

- Do not use the sauna to dry clothes or towels, as there is a risk of fire. The high humidity can damage electrical equipment or cause mold to grow in the sauna.
- Never sleep in a hot sauna.
- Consult your doctor about any health-related limitations to bathing.
- All maintenance that requires special skills must be performed by a trained professional.
- The Fenix-control panel must not be used by children under 8 years.
- The Fenix control panel may be used by children over 8 years, by persons with limited psychological, sensory or mental capabilities or by persons with lack of experience/knowledge, but only if:
 - They are supervised.
 - They have been shown how to use the device safely and are aware of the hazards that could occur.
- Children must not play with the sauna control unit.
- Children under 14 years may only clean the sauna control unit if they are supervised.
- For health reasons, do not use the sauna when under the influence of alcohol, medication or drugs.
- For your own safety, consult your supplier in the event of problems that are not described in sufficient detail in the operating instructions.

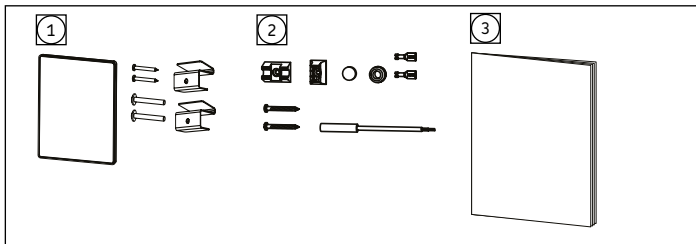
3. Product description

The Fenix WiFi touchscreen control panel is a plug & play upgrade for your existing Xenio sauna control unit. All devices such as door sensor or other accessories can still be operated. Also the same wiring can be used. No electrician is required. See compatible control units at “4. Technical data” on page 8.

3.1. Delivery contents

Check the device for visible damage. Do not use a damaged device. Contact your supplier if parts are missing or damaged.

1. 4.3" Touchscreen control panel + mounting hardware
2. Door sensor (only FX002XW)
3. Installations instructions



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3.2. Product functions

The Fenix WiFi touchscreen control panel is designed to get you a great sauna experience. There are predefined profiles to allow you an easy and comfortable way of operating your sauna.

The Fenix WiFi touchscreen control panel can be connected with the MyHarvia App and the Harvia Web portal. 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 WiFi connection to use the MyHarvia App and Harvia Web portal.

4. Technical data

Region		Europe	US / NA
Ambient temperature		-10 - +75 °C	14 - 167 °F
Air humidity		max.99 rH	max. 99RH
Protection class		IPX4	IPX4
Operation voltage		12 - 24V DC, max.3 W	
Power consumption		ca. 600mW	ca. 600mW
Weight		204 g	0.45 lb
Connection cable RJ10, 4 pole Connection: +12VDC, GND, RS485A+B		max. 10 m	max. 32.8 ft
WiFi network		2.4 GHz (802.11 b/g/n)	
Speed [MBps]		down 0.6, up 0.2	down 0.6, up 0.2
Ports (must be open)		8883, 443, 8443	8883, 443, 8443
Dimensions	Height	131 mm	5.2 in
	Width	94 mm	3.7 in
	Depth	20 mm	0.8 in
Dimensions cut out		84x118x15 mm	3.3x4.65x0.6 in
Type of mounting		flush-mounted, surface-mounted	
Installation in the sauna room		ONLY flush-mounted	
Installation height in the sauna room		max.1200 mm *)	max. 47.3 in *)
Distance to the sauna heater in the sauna room		min.1000 mm *)	min. 39.4 in *)

*) For smaller distances, note the requirements under “5.1. Safety distances” on page 9

Compatible control units and heaters:

- Fenix: all models FX.....
- Xenio CX1104XW, Xenio CX1704XW, Xenio CX1104CXW
- Heater XE models from serial number 2034xxxxx
- Xenio CX110400C, Xenio CX170400 from serial number 2034xxxxx
- CX30-U1-U3, CX45-U1-U3 from serial number 2034xxxxx
- CX30C-U1, CX30C-U3 from serial number 2034xxxxx

If the serial number of your product is bigger than presented, it is compatible.



5. Installation Fenix control panel

An existing 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.

ATTENTION! - Damage to the unit

Work on the control panel may only be carried out using a standard screwdriver. Do not use a power screwdriver.

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.

ATTENTION! - Interference can impair signal transmission

The data cable must be laid separately from other mains cables and control cables.

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5.1. Safety distances

ATTENTION! - Damage to the unit

Please ensure that the temperature of the panel never rises above 75°C.

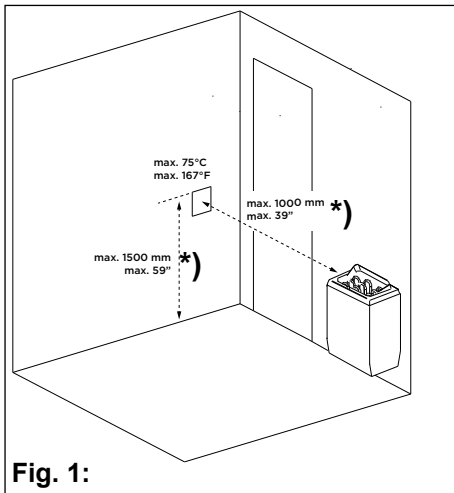


Fig. 1:

Installation height in the sauna room	
Daily use > 2h max. 1200 mm max. 47.3 in	*) Daily use max. 2h max. 1500 mm max. 59.06 in
Distance to the sauna heater in the sauna room	
Heater > 7kW min. 1000 mm min. 39.4 in	*) Heater < 7 kW min. 500 mm min. 19.7 in

*) If the sauna is used only privat and with low temperature, or not operated more than two hours a day, you may install the panel to 1500 mm/59.06 in height
In a small sauna with heater < 7 kW, the control panel can be installed with 500 mm/19.7 in distance from the heater.

5.2. Mounting control panel - flush-mounted



WARNING! - 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!

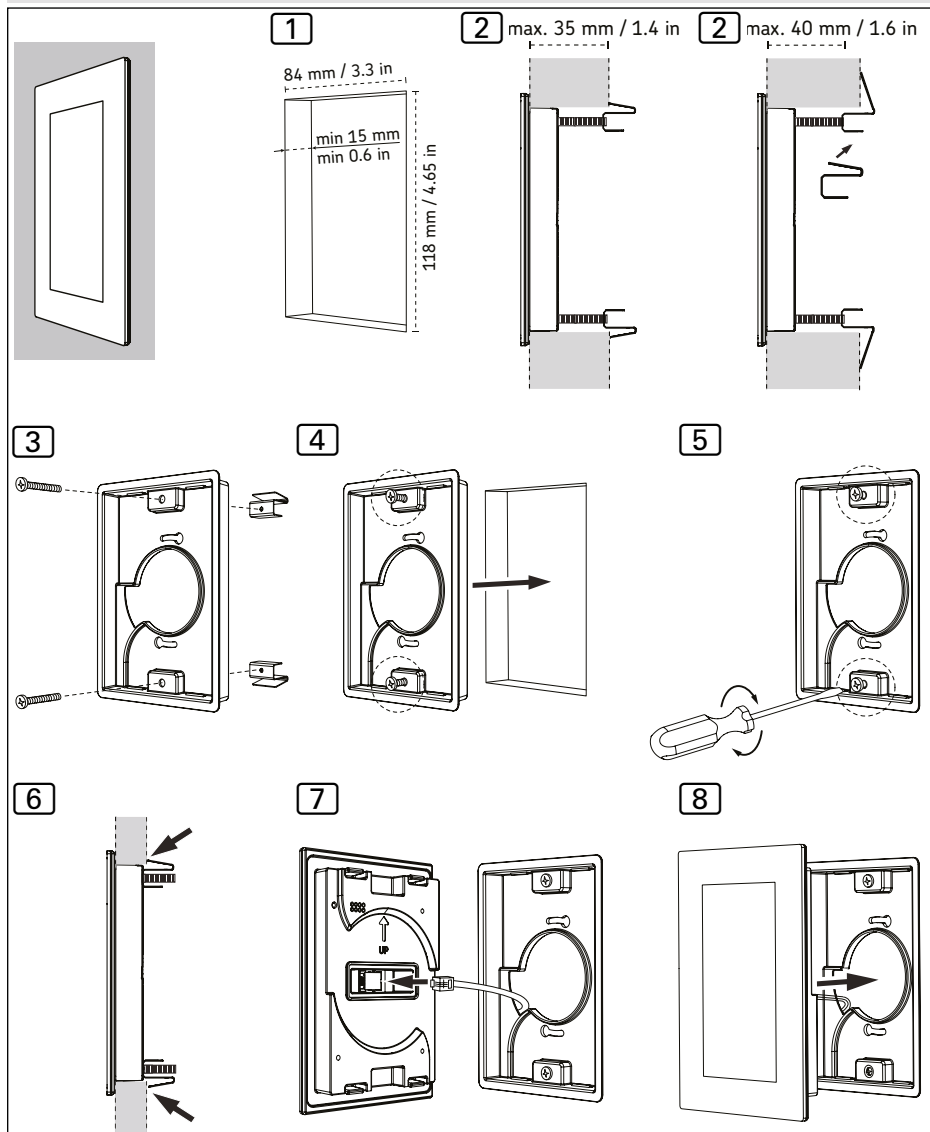


Fig. 2:

5.3. Mounting control panel - surface mounted

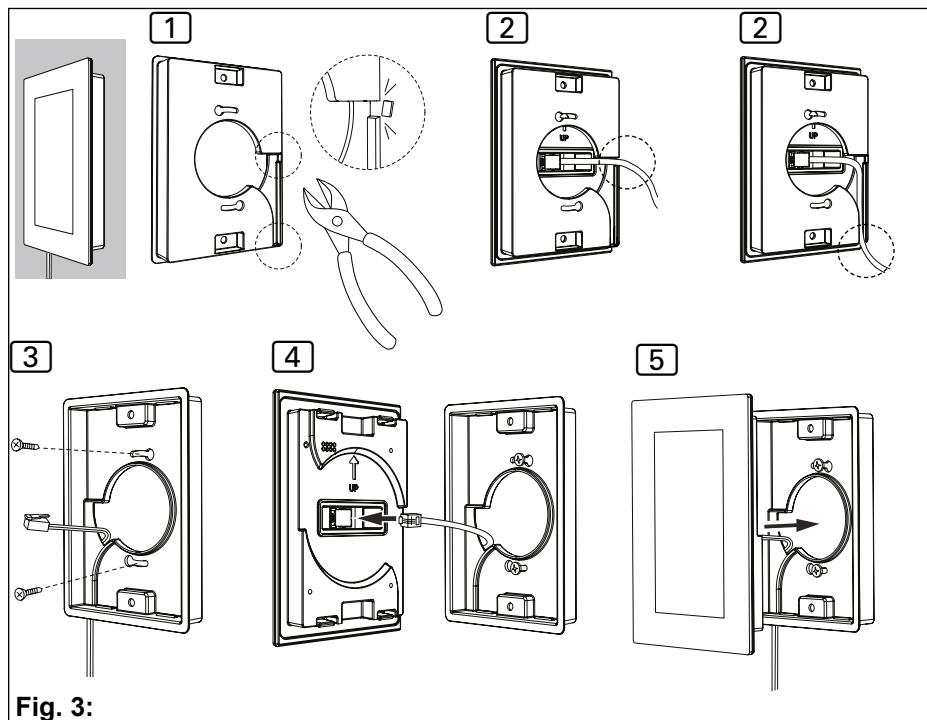


Fig. 3:

6. Preperation

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.

6.1. WiFi-Connection

For using the MyHarvia App you need a reliable WiFi Network 2.4 GHz connection.



If the WiFi signal is weak, try relocating the WiFi base station or use a WiFi extender to enhance coverage and improve connection quality.

You can ensure an adequate WiFi connection with your phone:

- » Disable mobile data on your phone.
- » Turn on your phone's *WiFi*.
- » The WiFi connection at the installation location is adequate if the *WLAN* connection of your phone is good and other applications that require data transfer work properly.

Building structure, building materials, flush mounting and other similar issues may reduce the quality of the WiFi connection.

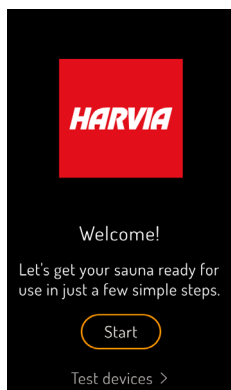
6.2. Fenix set up

The device will guide you through the set up process, making it easy to find the optimal settings for your sauna.

When the device is connected to the power supply and the main switch on the sauna control unit / sauna heater is on, the control unit is in standby mode and is ready for operation. Follow the instructions on the display.



Pairing and software updates should only be performed when the ambient temperature of the panel does not exceed 40°C



choose:

A) Start: to set up the control panel

OR

B) Test devices: used to verify functionality without a WiFi connection and to configure installed units. Designed for electricians who will not complete the full setup.



WARNING!

When using Test devices mode, always ensure that there are no objects on or within the safety distance zone of the sauna heater before switching it on.

choose after pressing „START“:

A1) Set up by phone (recommended): Make further settings in the MyHarvia App (see “9. Connection to MyHarvia app” on page 21).

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.



MyHarvia App**

OR

A2) Setup manually: if you want to use the control panel without the App.

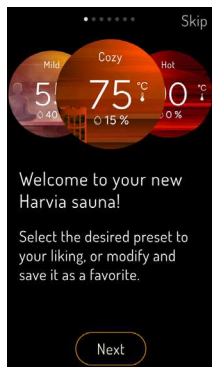
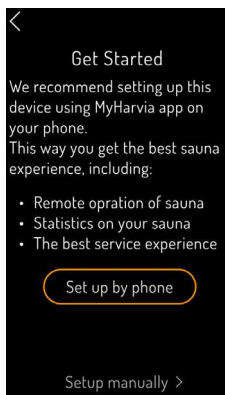
Make further settings on the control panel:

Time - date - temperature unit - heater model - safety device - additional devices ((see “7. Operation of Fenix control panel” on page 15)



To benefit from the latest improvements and security updates, we recommend establishing a WLAN connection at least once per quarter.

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C) 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.

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

Depending on the power unit, your control panel allows you to make the following settings:

Region	Europe	US / NA
Setting range temperature	30 - 110 °C / 86 - 230 °F	30 - 90°C / 86 - 194 °F
Setting range steamer	0 - 100 rH	0 - 100 RH
Adjustable heating time limit	2-6, 12, 18, 24 h	1-6, 12, 18, 24 h
Adjustable pre-set time	0 - 24 h	0 - 24 h
Safety device (Door sensor, safety switch or heater with integrated safety device)	required	-
Light	yes	yes
Fan	yes	yes



The Harvia Fenix can only control the functions of the connected sauna power unit (e.g. when connected to power unit for Finnish sauna the steamer function will not available).

6.3. Web portal connection (harvia.io)

You can connect your sauna via the Harvia Web portal and access it from anywhere. Use the same login credentials as for the MyHarvia 2 app. For remote control, you will need a control tier license for you control panel.

7. Operation of Fenix control panel

The Fenix control panel is designed for easy and safe use. Click on the buttons to discover the functions behind them.



The Illustration is a symbolic picture - depending on the equipment and the activate mode of the connected control unit, not all functions are visible..



1 Settings 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 Fan - on/off

11 Status door sensor

12 Timerfunctions

13 on/off

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Touching the desired function takes you to the respective setting area.



The area highlighted in color can be set (e.g. temperature) using + / - or circular movements.

Gray symbols indicate deactivated functions that are activated by touching them.

If you change safety-related settings, a dialog will ask you to confirm your action.

**WARNING!**

Always ensure that there are no objects on or within the safety distance zone of the sauna heater before switching it on.

7.1. Settings menu

Screenlock & Guest mode	• a screenlock can be configured (PIN)  If an incorrect PIN code is entered three times, you must wait one minute before trying again.
Control panel settings	• a Guest mode can be activated and set up • Guest mode setting menu can be locked • WiFi settings, languages, units • Display settings (Backlight, Standby backlight, Screen-saver time, Touch sound) • Date and time • Factory Reset • Run setup wizard • Manual firmware updates
Sauna settings	• Remote use option*** (safety device selection) • Memory for power failures - 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 blackout, if setting is On. According to regional regulations it is may not allowed to use On .
Information	• Dehumification program (on / off), custom dehumification • Additional settings (Max ontime, max. temp., Demo mode) • Software version, Wifi signal strength, serial number etc.
Statistics	• Informations (total on time, total bathing time, sauna sessions)
Connect to MyHarvia	• Connect device to MyHarvia 2 app
Replay the on-boarding	• You can replay / revisit the on-boarding

EN

*** For remote control, you will need a control tier license for you control panel.

7.2. Combi operation

The adjustable temperature depends on the humidity. This is for your safety. The sum of temperature (in C degrees) and humidity can be a maximum of 140 (temperature 60 °C + humidity 80 rH). When the humidity value is increased, the sauna temperature is automatically adjusted.

7.3. Safety switch / door sensor (for Europe)



WARNING!

According to EN 60335-2-53, the use of a safety device is mandatory when using remote operation (MyHarvia App / Harvia Web portal).

Observe the installation instructions for the respective device.

The safety switch and the door sensor may only be connected to the sauna control unit / sauna heater by an authorized electrician.

- **Safety switch:**

The safety switch (e. g. Harvia SFE) 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.

- **Türsensor:**

The door switch (e.g. SAB00103) is a magnetic switch in the door frame of the sauna cabin.

- **Integrated / no safety device:**

Some heaters are compliant for remote operation without any additional equipment (heaters above 20kW or with continuous monitored or towel test. Please check local regulations).

7.4. Activating standby for remote operation (for Europe)



CAUTION!

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.

- Select the desired profile or your settings.
- Activate remote operation, a countdown of 30 seconds is displayed.
The door must be closed during the 30-seconds period!
- The sauna control unit 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 turned on remotely.

8. Troubleshooting

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).



The following table lists possible errors that are not shown on the display and explains how to rectify them.

Description	Cause / rectification
FENIX control panel does not light up	Switch on the main switch on the power unit or heater. Check the data cable.
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.
Cannot connect to WiFi or 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 connection is interrupted during setup	The name of the WiFi network contains inadmissible characters.
Can not connect to the app	Make sure that GPS location and bluetooth is enabled, and that the app allows the use of GPS location.
WiFi is not connected after a power failure	Switch the power supply to the sauna control unit off and on.
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.
Heating anomaly has detected	Check your sauna, if something has changed (door open long time, ventilation slat are change, ...)

<i>Description</i>	<i>Cause / rectification</i>
The control panel turns off during startup or pairing	The power unit temperature is too high (>40°C). Please ensure the temperature has dropped below this limit and then try again. Note: Setup and connection to Fenix via MyHarvia should only be done when the sauna is off and has fully cooled down.
Fail during pairing	Check the Bluetooth connection on your mobile device to ensure it is switched on and that the distance to the control panel is not too great (max. 5m).
Device lost connection	Check RSSI value at the control panel: -100-70 WiFi signal strenght is too weak. -70-40 is okay; -40-10 is very good. Check the location of your WiFi router / extender .
Firmware update takes very long	Check the quality of your WiFi connection, and consider using a repeater to improve signal strength if needed.
On/off via MyHarvia app is not possible - license is „core“	Check your license: „control (trial)“ has expired - free for 3 monthes from first registration
A desired function is not displayed	Check the software history, if the function is available in your software version

8.1. Software version history (control panel)

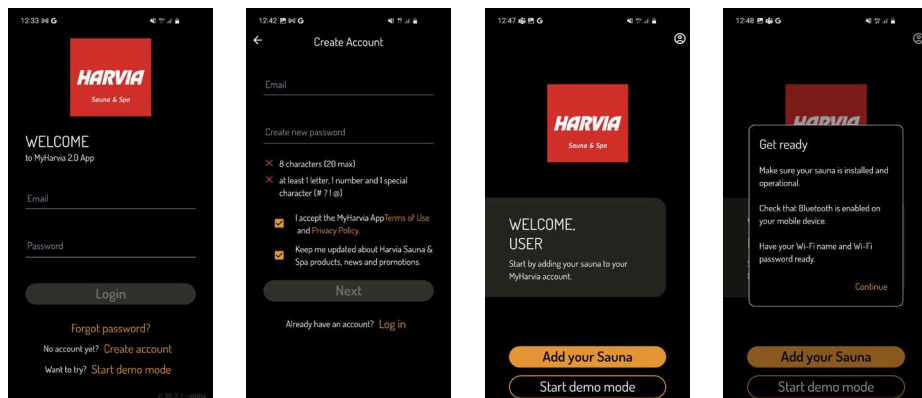
Vers 0.x.x	not official software - make a factory reset and try again
Vers 1.0.0	Basic sauna functions: On/Off, steamer dehumification, heating time, user programs
Vers 1.1.0	Guest mode, dehumification settings
Vers 1.2.4	Menu languages (ES, RU, HU, JP), remote with integrated/no safety device

9. Connection to MyHarvia app

After scanning the QR code and downloading the MyHarvia app, follow the instructions provided in the mobile application*.

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).

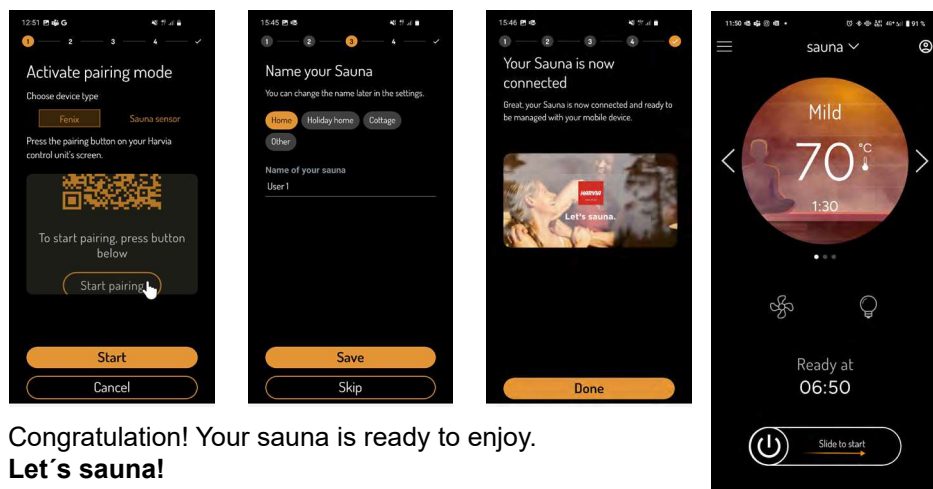
After successful Login, add your Sauna by choosing the device “Fenix”



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Start pairing at the control panel and the mobile App.

Confirm the Bluetooth pairing request and have your WiFi password ready.



Congratulation! Your sauna is ready to enjoy.

Let's sauna!

**** Attention!**

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

10. Maintenance

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.

11. Disposal



Dispose of packaging materials in accordance with the applicable waste disposal regulations.



Used devices contain reusable materials as well as hazardous substances. Therefore, do not dispose of your used device with household waste, but do so in accordance with the locally applicable regulations.

12. Spare parts

spareparts.harvia.com



13. Warranty terms

www.harvia.com

