# HARVIA XENIO WIFI

Harvia Xenio WiFi control panel is designed to control Harvia sauna devices: control center, electric heater or combi-heater. With the control panel it is also possible to control accessories like the lighting and ventilation of the sauna room. The ability to control accessories depends on the connection options of the device being controlled. Xenio WiFi control panel can only be connected to compatible Harvia products. See the manual of controlled device for more device-specific information.

The Xenio WiFi -control panel can be controlled by using MyHarvia mobile application. With the mobile application you can, for example, see the status of the heater, temperature of the sauna room and remaining heating time anywhere, anytime.

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This user manual is intended for the owner or the person in charge of the product, as well as for the electrician in charge of the electrical installation of the product. After completing the installation, the person in charge of the installation should give these instructions to the owner of the product or to the person in charge of its operation. Please read more instructions for installation, use and recycling from www.harvia.com. (Original user manual from manufacturer).

**READ THE WARNINGS AND MANUAL CAREFULLY BEFORE USING THE PRODUCT!**

⚠ **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 control unit is meant for controlling the functions of sauna and a sauna heater. It is not to be used for any other purpose!**

This device is allowed to use by 8 years old or older children and persons with reduced physical, sensory or mental capabilities, or persons with lack of experience and knowledge, if they are supervised or they have been instructed to use the device safely and if they are aware of the dangers involved. Children should not play with the device. Children should not clean or do operations to the device without supervision.

## INSTALLATION AND MAINTENANCE

⚠ **The electrical device may only be connected to the electrical network in accordance with the current regulations by an authorised, professional electrician. After completing the installation, the person in charge of the installation should give these instructions to the owner of the sauna or to the person in charge of its operation.**

⚠ **All maintenance that requires special skills must be performed by a trained professional.**

⚠ **Always disconnect the device from the electricity network before carrying out any maintenance work!**

- Check the device for visible damage before installing and using the device. Do not use a damaged device.
- It is absolutely necessary to install the device according to values stated in the instructions of installation and use. Neglecting them causes a risk of fire.
- If suitable accessories are installed in the device, follow the accessory-specific operating and installation instructions!
- Clean the product by using a lightly moistened cloth. Use only mild cleaning agents, never solvents or corrosive chemicals.
- This product should not be disposed of with general household waste. When recycling your product, take it to your local collection facility or contact the place of purchase.

- The device must be installed in such a way that the warning texts are easy to read after installation.
- The device must not be installed in a wall recess, unless otherwise stated in the instructions.
- Do not place the supply air vent so that the air flow cools the temperature sensor (see temperature sensor installation instructions!)
- If the supply cord is damaged, it must be replaced by the manufacturers' service person or a similarly qualified person in order to avoid a hazard.
- Use of a PVC-insulated cable as a connection cable for the heater is prohibited due to its thermal fragility.
- Do not connect power supply to electric heater via a residual current device.
- If device is connected to water supply, there must be a floor drain on the floor of the sauna room and/or washroom in case of hose breaks or leaks.
- If device is used in public saunas without a timer, the indicator light, which tells if the device is on, must be placed in the room where the device is controlled.

## INSTRUCTIONS FOR USE AND BATHING

⚠ **Always check that there are no objects on the heater or near the heater before switching it on.**

⚠ **Beware of hot heater. The stones and metal parts of the heater may burn the skin.**

⊘ **Do not cover!**

- Sea air and a humid climate may corrode the metal surfaces of the device.
- Do not hang clothes to dry in the sauna, as this may cause a risk of fire. Excessive moisture content may also cause damage to the electrical equipment.
- Do not press the overheating protection button before the cause of the fault has been found. Only persons authorised to carry out electrical installations can reset the overheat protector, unless otherwise stated in the instructions manual.
- Always check that the heater has switched off and stopped heating after the on-time period has elapsed.
- 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.
- The sauna room and surroundings of the heater must always be checked before the heater is switched on again or it is switched on with the remote-control system.
- 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.
- According to the product standard IEC/EN 60335 -2-53 regulating electrical sauna heaters, the control unit can be used to remotely control the heater once the heater or sauna room door is equipped with a secure switch (safety or door switch).

## TECHNICAL DATA

| **Xenio WiFi –Control panel (CX001WIFI)** | | | | **x** |
|---|---|---|---|---|
| **MyHarvia mobile application** | | | | **(x)** |
| | | Compatible devices | | |
| | | Control center | | Heater |
| | | CX170<br>C5170* | CX110C<br>C5110* | PC70XE<br>PC90XE<br>PC110XE<br>TRT70XE<br>TRT90XE<br>TRC70XE<br>TRC90XE<br>D23XE<br>D36XE<br>V45XE<br>V60XE<br>V80XE<br>PO70XE<br>PO110XE |
| | | *** VERSION 2020 OR LATER** | | |
| Temperature adjustment range | 40-110 °C | x (x) | x (x) | x (x) |
| Humidity adjustment range | 20-80 rH | | x (x) | |
| On-time adjustment range | - Family saunas 1-6 h<br>- Public saunas in apartment buildings 1-12h<br>For longer operating times consult the importer / manufacturer | x | x | x |
| Control of lighting | ON / OFF -button | x (x) | x (x) | x (x) |
| | Automation: ON when heater turns on | (x) | (x) | (x) |
| Control of fan | ON / OFF -button | x (x) | x (x) | |
| | Automation: ON when heater turns off | (x) | (x) | |
| Timed start adjustment range | 0-12h | x | x | x |
| | - For one heating<br>- Based on calendar | (x) | (x) | (x) |
| Pre-heating time range | 0-179 min | (x) | (x) | (x) |
| Week clock | - Max. 8 programs<br>- Using the week timer is allowed only in public saunas | (x) | (x) | (x) |
| Safety device option | Safety switch / door switch | x | x | x |
| Time zone selection | Yes | (x) | (x) | (x) |
| Daylight saving selection | Yes | (x) | (x) | (x) |
| **Xenio WiFi –Control panel (CX001WIFI)** | | | | |
| Dimensions (mm) | 85 x 24 x 110 | | | |
| Connection | 4-pin: +12VDC, GND, RS485 A+B | | | |
| Supply | 12-24VDC | | | |
| Power consumption | Peak 2W, average 600mW | | | |
| Storage conditions | -25-70°C | | | |
| Ambient | 0-70°C | | | |
| Air humidity | Max 99%, non-condensing | | | |
| Dimensions for flush mounting hole (mm) | 67 x 96 | | | |

Table 1a. Technical data, Xenio WiFi control panel / MyHarvia mobile application

## 1. INSTRUCTIONS FOR INSTALLATION

The control panel is splashproof and has a small operating voltage. The panel can be installed in the washing or dressing room, or in the living quarters. If the panel is installed in the sauna room, it must be at the minimum safety distance from the heater and at a maximum height of one metre (1m) from the floor. Conductor tubing (ø 30 mm) inside the wall structure allows you to thread the data cable hidden within the wall – otherwise the installation will have to be on the wall surface. If the control panel is exposed to water splashes, flush mounting is recommended. The existing Xenio control panel can be replaced with Xenio WiFi panel without an electrician (» table 1a, compatible devices).

» See page 6-7 *Installing the control panel.*

**Install the control panel in a location with a good WiFi connection. 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 WiFi connection of your phone is good and other applications that require data transfer work properly.

**If the connection is not adequate:**

» Try another location.
» If possible, change the location of your WiFi base station so that the connection to the Xenio WiFi control panel is better.

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

**Tip! A WiFi network extender can be used to enhance the network reach.**

### 2.1. Using the Heater and the Steamer

When the device is connected to the power supply and the main switch (» figure *System components*) is switched on, the control unit is in standby mode and ready for use. I/O buttons' background lights glow on the control panel. *(Device = power unit / Harvia XE-heater)*

**Heater and/or Steamer On:**

Heater and steamer are switched on and off independently.

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

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

When the heater and/or steamer starts, the display will show previously set values for five seconds. The shown values (temperature/humidity/on-time) differ depending on which devices are started.
When the desired temperature and/or humidity has been reached in the sauna room, the heating elements are automatically turned off. To maintain the desired temperature and/or humidity, the control unit will automatically turn the heating elements on and off in periods. If the heater efficiency is suitable and the sauna has been built correctly, the sauna takes no more than an hour to warm up.

**Heater and/or Steamer Off:**

The heater and/or steamer turn off and the control unit switches to standby mode when:

- the I/O button is pressed
- the on time has elapsed or
- an error occurs.

If the water container runs empty, the steamer will be turned off, the water level warning light will blink, and the display will show the text "OFF". If the water level sensor develops a failure, the steamer's overheat protector will engage, the water level warning light will blink, and the display will show the text "OFF" (» table 2b).

**NOTE! It is essential to check that the control unit has cut off power from the heater after the on time has elapsed, the dehumidification has ended or the heater has been switched off manually.**

**Changing the Settings:**

The settings menu structure and changing the settings is shown in figures 3a and 3b. The programmed temperature and humidity values and all values of additional settings are stored in memory and will also apply when the devices are switched on next time.

**Note! The humidity value determines the maximum temperature in the sauna. The sum of temperature and humidity values can be 140 at maximum (temperature 60 °C + humidity 80 rH). This is due to safety reasons. If the steamer is activated and you try to set the temperature too high, the humidity value will blink in the display.**

### 2.2. Using Accessories

Lighting and ventilation can be started and shut down separately from other functions.

#### 2.2.1. Lighting

The lighting of the sauna room can be wired so that it can be controlled from the control panel. (Max 100 W.)

Switch the lights on / off by pressing the control panel button.

#### 2.2.2. Ventilation

If there is a fan installed in the sauna room, it can be connected to the control unit and be controlled from the control panel.

Start / stop the fan by pressing the control panel button.

#### 2.2.3. Safety and door switch

- Safety switch (e.g. Harvia SFE) refers to a device integrated or installed above the heater that prevents the heater from heating up if, for example, a towel (or some other object that might cause a fire hazard) is placed on it.
- Door switch (e.g. SAB00103) refers to a magnetic switch installed in the sauna room door frame. Before using the remote control, check the sauna room and the area near the heater. Close the sauna room door. Closing the door closes the door switch circuit and allows remote control to be activated. Opening the sauna door opens the door switch circuit (» more information 3.1.).
- The switches are connected according to the instructions of the device to be controlled.

**Note! Safety and door switches may only be connected by an electrician.**

#### 2.2.4. Remote switch

To remotely control the heater's power input, the control unit can be equipped with an on/off remote switch (e.g. building automation) (» figure *System components*) (» more information 3.1.).

### 2.3. Control panel lock

| | |
|---|---|
| | Press and hold the heater and light buttons for three seconds. |
|  | -CL- is shown on the display. Panel lock can be activated only in standby mode. Panel lock also prevents remote start. |

## 2.4. BASIC SETTINGS

**Basic mode (heater and steamer on)**
The top row shows the sauna room temperature. The bottom row shows the humidity level (or remaining on time, if the steamer is not activated).

**Press the MENU button to open the settings menu.**

**Sauna room temperature (shown if the heater is activated)**
The display shows the sauna room temperature setting. Temperature indicator light blinks.

- **Change the setting to the desired temperature with the ⊖ and ⊕ buttons.**
- The sum of temperature and humidity can be 140 at maximum (» 2.1.)

**Press the MENU button to access the next setting.**

**Sauna room humidity level (shown if the steamer is activated)**

- The display shows the sauna room humidity setting. Humidity indicator light blinks.
- Change the setting to the desired humidity with the ⊖ and ⊕ buttons.
- The sum of temperature and humidity can be 140 at maximum (» 2.1.)

**Press the MENU button to access the next setting.**

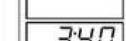
**Remaining on-time**
Press the ⊖ and ⊕ buttons to adjust the remaining on-time.

Example: the heater will be on for 3 hours and 40 minutes.

**Pre-setting time (timed switch-on)**

- Press the ⊕ button until you overstep the maximum on-time. Temperature and humidity indicator lights switch off. Pre-setting time symbol blinks on the screen.
- Select the desired pre-setting time using the ⊖ and ⊕ buttons. The time changes in 10-minute steps.

Example: the heater will start after 10 minutes.




**Press the MENU button to exit.**

**Basic mode (pre-setting time running, heater and steamer off)**
The decrease of remaining pre-setting time is shown until zero appears, after which the activated devices (heater and/or steamer) are switched on. The bottom row shows the remaining pre-setting time.

Figure 3a. Settings menu structure, basic settings.

## 2.5. ADDITIONAL SETTINGS

**Control unit standby**

I/O buttons' background lights glow on the control panel.

(−) MENU (+)

Open the settings menu by simultaneously pressing the buttons (−), MENU and (+). **Press for 5 seconds.**

**Note! The buttons do not glow when the control unit is in standby mode.**

**Setting the remote use**

The remote use setting can be changed with the (+) and (−) buttons. (See section 3 for further information).

**OFF** (remote control disabled)

**SAFE** (safety switch)

**door** (door switch)

**Confirm the selection with the MENU button.**

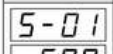
Select either heater **HEAt** or combi (=heater and steamer, **CO**) to be controlled remotely. Change the setting with the (+) and (−) buttons.

**Confirm the selection with the MENU button.**

**Setting pause time (6 h)**

Enable or disable the pause time feature with buttons (+) and (−). Pause time must be enabled, if the control unit is remotely started by an automated schedule (e.g. a weekly timer).

**Press the MENU button to access the next setting.**




**Maximum on-time**

The maximum on-time can be changed with the (+) and (−) buttons. The range is 1–12 hours (factory setting 6 hours).

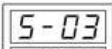
Example: the heater will be on for 6 hours from the start. (Remaining on-time can be changed » figure 3a).

**Press the MENU button to access the next setting.**

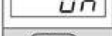
**Sensor reading adjustment**

The reading can be corrected by +/- 10 units. The adjustment does not affect the measured temperature value directly but changes the measuring curve.

**Press the MENU button to access the next setting.**




**Memory for power failures**
The memory for power failures can be turned ON or OFF*
- When turned on, the system will start again after a break in electricity.
- When turned off, the break will shut the system down. I/O button must be pressed to restart.
- The safety regulations for memory usage vary by region.




**Press the MENU button to access the next setting.**

**Sauna dehumidifying interval****
The sauna dehumidifying interval can be turned **On** or **OFF***. The interval will begin when the devices are switched off from the I/O buttons or when the set on-time runs out.

During the interval:
- the heater is on
- the sauna room temperature is set at 40 °C.
- If a fan is connected to the control unit, it will also be on.

The length of the interval is 45 minutes. When the time runs out, the devices turn off automatically. The interval can also be stopped manually at any time by pressing the I/O button. Dehumidifying helps to keep your sauna in a good condition. (further information » 3.).

**Press the MENU button to access the next setting.**

**Temperature unit**
Change the setting with the ⊕ and ⊖ buttons.
**CELS** (Celsius)
**FAHr** (Fahrenheit)

**Press the MENU button to access the next setting.**

**WIFI connection**
Connect control panel to WiFi network by using the MyHarvia application.
Change the setting with the ⊕ and ⊖ buttons. **See MyHarvia application for more detailed instructions.**

**OFF** >The WiFi connection is off
(WiFi indicator light on the control panel is off ).
**On** > The WiFi connections is on
(WiFi indicator light glows on the control panel).
**COnn** > Connect mode is active.

**Press the MENU button. The control unit switches to standby mode.**

* Factory setting
** Note! Available functions depend on the features of the controlled device.
Figure 3b. Settings menu structure, additional settings.

### 3.1. General

**According to the product standard IEC/EN 60335 -2-53 regulating electrical sauna heaters, a control unit can be used to remotely control the heater once the heater or sauna room door is equipped with a secure switch (a safety or a door switch).**

**Remote use with the safety switch:** The heater can be turned on remotely if the safety switch circuit is closed. If the circuit is open, "SAFE" is displayed and the heater will not start.

**Remote use with the door switch:** Remote use mode must be activated by pressing the heater button for three seconds. If the door switch circuit is open, remote control mode will be activated after 30 seconds (30-second timer allows remote control to be activated even when the control panel is installed inside the sauna room). Status message "rc" and the remaining time for remote control activation is displayed. Heater and steamer buttons (in case the steamer function is possible) are blinking. After 30 seconds "rc on" is displayed and the heater can now be turned on with a remote switch. If the door switch circuit is open or the door is opened while the remote control mode is active "door OPEn" is displayed and the control unit returns into standby mode.

**Memory for power failures:** the control unit resumes operation if the remote switch has remained in ON position.

**Preset time:** if the control unit 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.

**Dehumidifying:** when the heater is turned off remotely and dehumidifying is enabled, dehumidifying starts and cannot be stopped remotely. When dehumidifying is in progress and a safety switch is used, the heater can be turned on remotely. If a door switch is used, the heater cannot be remotely started, as the remote use mode must be re-activated by pressing and holding the control unit's heater button for three seconds.

**Power saving mode:** If no buttons are pressed in 30 minutes, power saving mode is activated. Only the heater button (and "rc on", if remote use mode is active) is lit.

**Pause time:** When the heater is switched off, status message **rESt** appears on the control panel display. This feature prevents the heater from turning on automatically during a timed start or weekly clock **if it has been less than 6 hours since the heater was last turned off.**

**FOTA (Firmware Over the Air)**

The Xenio WiFi control panel has a feature that automatically downloads the latest firmware to the control panel.

### 3.2. MyHarvia Mobile Application

MyHarvia is a mobile application that allows you to remotely control the functions of Xenio WFfi control panel. With MyHarvia mobile app you can:

- Turn the heater on and off.
- Switch accessories on and off (lights, ventilation).
- Set and monitor the sauna temperature.
- Set and monitor sauna humidity (combi-models).
- See the heater status information.
- Set a scheduled start.

**There is no limit to the number of devices you can connect to the MyHarvia application. With the mobile app you can control several saunas with Xenio WiFi control panel, for example, one in your home and the other in your summer cottage.**

#### 3.2.1. Installing the MyHarvia application

1. Download MyHarvia mobile app from the app store (Google Play / App Store)
2. Create and register MyHarvia-account.
3. Sign in to your MyHarvia-account.

**Note! MyHarvia is not available for download in all countries due to local restrictions.**

#### 3.2.2. Connecting MyHarvia and Xenio WiFi control panel

- First device is installed right after you sign into your account. Follow the instructions of your mobile application.
- Later you can pair new devices by selecting the "+ Add new" from the Home menu. Follow the instructions of your mobile application.

#### 3.2.3. MyHarvia main view

1. Device menu
2. Device settings
3. Timed start
4. Week clock
5. Adjusting sauna temperature
6. Current sauna temperature
7. Target temperature
8. Steamer ON / OFF
9. Adjusting the steamer
10. Functions ON / OFF
11. Devices
12. User profile and settings
13. Status / Error messages

**Note! Available buttons depend on the features of the controlled device.**

| STATUS MESSAGES | | |
|---|---|---|
| **door open** | Door switch circuit is open | Close the sauna room door |
| **SAFE** | Safety switch circuit is open | Remove the object from atop the safety switch |
| **rESt** | Pause time active | - |
| **rc on** | Remote control activated | - |

Table 2a. Status messages

If an error occurs, the heater and/or steamer power will cut off and the control panel will show an error message E(number), which helps troubleshooting the cause for the error. **All service operations must be done by professional maintenance personnel!**

| ERROR MESSAGES | | |
|---|---|---|
| | **Description** | **Remedy** |
| **E1** | Temperature sensor's measuring circuit broken. | Check the red and yellow wires to the temperature sensor and their connections for faults. |
| **E2** | Temperature sensor's measuring circuit short-circuited. | Check the red and yellow wires to the temperature sensor and their connections for faults. |
| **E3** | Overheat protector's measuring circuit broken. | Press the overheat protector's reset button. Check the blue and white wires to the temperature sensor and their connections for faults. |
| **E6** | Humidity sensor's temperature measuring component failure. | Check the brown and blue wires to the humidity sensor and their connections for faults. Replace the sensor. |
| **E7** | Humidity sensor's humidity measuring component failure. | Check the brown and blue wires to the humidity sensor and their connections for faults. Replace the sensor. |
| **E8** | Humidity sensor's humidity measuring circuit broken. | Check the brown and blue wires to the humidity sensor and their connections for faults. |
| **E9** | Connection failure between the control panel and the power unit. | Check the cable and the connectors. |
| | Water level low or steamer's overheat protector engaged. Water level warning light blinks. | Add water (manual filling models) or check the water supply (automatic filling models). Check the steamer's overheat protector. See the steamer's or Combi heater's manual for more instructions and safety information. |
| | WiFi indicator light is off | WiFi connection is off in the S-CO setup menu. |
| | WiFi indicator light is on | WiFi connection is on. Connections to the router and MyHarvia cloud are working. |
| | WiFi indicator light flashes 3 times in a row | WiFi connection is on, but connection to MyHarvia cloud fails. Check your internet connection. Try restarting your router. |
| | WiFi indicator light flashes every 5 seconds | The Wi-Fi connection is on, but the wifi connection between the control panel and the router fails. Try fixing the connection by turning off and on the WiFi connection in the control panel S-CO setup menu. |

Table 2b. Error messages

## FACTORY RESET

**Control panel disfunction:** In case no other means help, it is recommended to restore the factory settings. Instructions for restoring factory settings can also be found in the application..

| | |
|---|---|
| | When the control panel is in standby mode, **press and hold the heater, lights, and fan buttons for 5 seconds.** |
| | Status message **rSt OFF** is displayed.<br>Press ⊕ to change reset status to **On** |
| | **Press the MENU to perform factory reset** |

## FREQUENTLY ASKED QUESTIONS

## GUARANTEE

- The guarantee period for heaters, steam generators and control equipment used in saunas by families is two (2) years.Switch accessories on and off (lights, ventilation).
- The guarantee period for heaters, steam generators and control equipment used in saunas by building residents is one (1) year.
- The guarantee period for heaters, steam generators and control equipment used in commercial saunas facilities is three (3) months.
- The guarantee does not cover any faults resulting from failure to comply with installation, use or maintenance instructions.
- The guarantee does not cover any faults resulting from the use of stones not recommended by the heater manufacturer.
- We recommend to use only the manufacturer's spare parts.