

Harvia KV80SE, CX110C

Harvia Topclass Combi KV80SE Sauna Heater and Xenio CX110C Control Unit Instruction Manual

Model: KV80SE Heater, CX110C Control Unit

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the safe and correct installation, operation, and maintenance of your Harvia Topclass Combi KV80SE electric sauna heater and Harvia Xenio CX110C control unit. Please read these instructions carefully before installation and use to ensure optimal performance and safety.

The Harvia Topclass Combi KV80SE is an electric sauna heater designed for saunas ranging from 7 to 12 cubic meters, offering both traditional dry sauna heat and steam generation. It is controlled by the advanced Harvia Xenio CX110C digital control panel, which allows precise adjustment of temperature and humidity.



Image 1.1: The Harvia Topclass Combi KV80SE electric sauna heater shown with the Harvia Xenio CX110C control panel. The heater features a stainless steel exterior and a top compartment for sauna stones. The control panel is a sleek black unit with a digital display and red illuminated buttons.

2. SETUP AND INSTALLATION

Installation of the Harvia Topclass Combi KV80SE heater and Xenio CX110C control unit should only be performed by a qualified electrician in accordance with all local and national electrical codes and regulations. Incorrect installation can lead to electric shock, fire, or other hazards.

2.1 Components Overview

- Harvia Topclass Combi KV80SE Electric Sauna Heater
- Harvia Xenio CX110C Control Panel
- Power Unit
- Temperature Sensor (WX232)
- Humidity Sensor (WX325)
- Sauna Stones (not included, purchase separately)

2.2 Sauna Room Requirements

- Minimum sauna room size: 7 m³
- Maximum sauna room size: 12 m³
- Minimum sauna height: 1800 mm

2.3 Electrical Connections

The system requires a 400V 3N~ power supply. The recommended cable size is 5 x 2.5 mm², protected by a 3 x 16 A fuse. The power unit handles the main electrical connections and relays power to the heater and control panel.

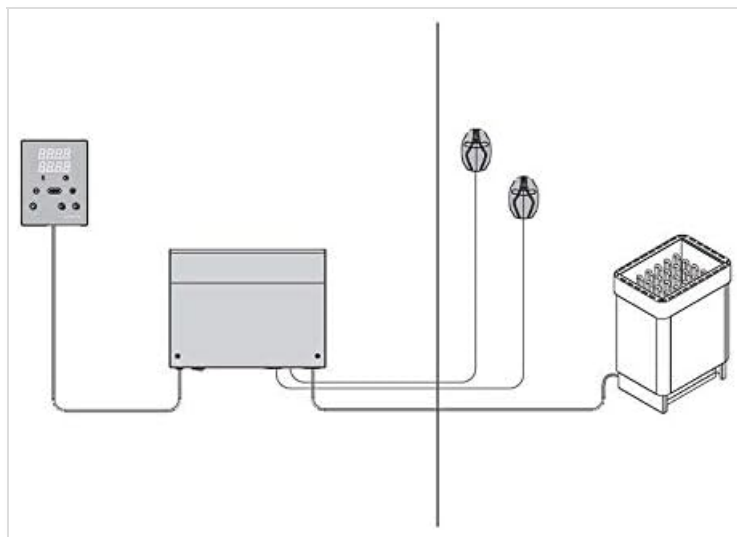


Image 2.1: A schematic diagram illustrating the connection of the Harvia Xenio control panel, power unit, temperature/humidity sensors, and the sauna heater. The control panel connects to the power unit, which then connects to the heater and the sensors, ensuring proper system integration.

2.4 Placement of Components

- **Heater:** Install the heater according to the manufacturer's instructions, ensuring proper clearances from walls and benches.
- **Control Panel (Xenio CX110C):** The control panel can be surface-mounted or integrated into a wall. Its compact dimensions (85 mm x 24 mm x 110 mm) allow for flexible placement outside the sauna room.
- **Power Unit:** The power unit (dimensions: 272 mm x 70 mm x 193 mm) should be installed in a dry location

outside the sauna room, accessible for maintenance.

- **Temperature and Humidity Sensors (WX232 & WX325):** These sensors should be installed inside the sauna room at the recommended height and location to ensure accurate readings. The sensors come with approximately 4 meters of cable.



Image 2.2: The Harvia WX232 temperature sensor and WX325 humidity sensor. These oval-shaped white units are designed to be mounted inside the sauna to monitor environmental conditions.



Image 2.3: The Harvia power unit, a rectangular silver-colored metal box. This unit manages the electrical supply to the sauna heater and control system.

3. OPERATING INSTRUCTIONS

The Harvia Xenio CX110C control panel provides intuitive control over your sauna experience.



Image 3.1: The Harvia Xenio CX110C control panel, a black rectangular unit with a red digital display showing temperature and time. It features several illuminated touch buttons for power, temperature, humidity, timer, lighting, and fan control.

3.1 Powering On/Off

Press the main power button on the control panel to turn the heater on or off.

3.2 Adjusting Temperature

Use the temperature adjustment buttons (usually '+' and '-') on the Xenio CX110C control panel. The temperature can be set within a range of 40–110 °C. The current temperature will be displayed on the screen.

3.3 Adjusting Humidity (Combi Function)

For steam generation, use the humidity adjustment buttons. The humidity can be set within a range of 20–95 rH (relative humidity). Ensure the water reservoir in the heater is filled before activating the steam function.

3.4 Setting Operating Time

The operating time can be set for different sauna types:

- Family saunas: 1–6 hours
- Public saunas: 1–12 hours

Use the timer buttons on the control panel to adjust the desired operating duration.

3.5 Pre-programming Time

You can pre-program the heater to start at a later time. The pre-programming duration can be set from 0–12 hours. This allows you to have your sauna ready at a specific time.

3.6 Lighting and Fan Control

The Xenio CX110C control panel also includes controls for sauna lighting and a fan, if these are connected to the system's power unit.

3.7 Adding Water for Steam

The Harvia Topclass Combi KV80SE has a 5-liter water reservoir for steam production. Fill this reservoir with clean water before using the steam function. Do not pour water directly onto the heating elements or hot stones when the heater is dry, as this can cause damage.

4. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Harvia sauna heater system.

4.1 Cleaning the Heater

Wipe the exterior of the heater with a damp cloth. Do not use abrasive cleaners or solvents. Ensure the heater is cool and disconnected from power before cleaning.

4.2 Sauna Stones

Inspect the sauna stones regularly. Over time, stones can crumble and lose their heat retention properties. Replace stones that are visibly cracked, crumbling, or discolored. The maximum stone quantity for the KV80SE is 20 kg. Use only genuine Harvia sauna stones.

4.3 Water Reservoir

For the Combi function, regularly clean the water reservoir to prevent mineral buildup. Use a mild descaling agent if necessary, following the product instructions, and rinse thoroughly.

4.4 General Safety Checks

Periodically check all electrical connections for signs of wear or damage. Ensure the temperature and humidity sensors are clean and unobstructed. If any issues are detected, contact a qualified service technician.

5. TROUBLESHOOTING

If you encounter problems with your Harvia sauna heater system, refer to the following common issues and solutions:

- **Heater not heating:**
 - Check if the main power is on.
 - Verify the operating time and pre-programming settings on the control panel.
 - Ensure the temperature setting is above the current sauna temperature.
 - Check the fuse in your electrical panel.
 - The temperature sensor (WX232) has a resettable overheat safety. If tripped, allow the heater to cool down and then reset the safety mechanism (refer to the sensor's specific instructions for reset procedure).
- **No steam from Combi function:**
 - Ensure the water reservoir is filled.
 - Check the humidity setting on the control panel.
 - Verify that the humidity sensor (WX325) is clean and functioning correctly.
- **Control panel not responding:**
 - Turn off the main power to the system for a few minutes, then turn it back on (power cycle).
 - Check connections between the control panel and the power unit.

- **Error messages on control panel:**

- Note down the error code and consult the full Harvia Xenio CX110C manual or contact Harvia customer support.

For complex issues or electrical problems, always contact a qualified service technician.

6. SPECIFICATIONS

Harvia Topclass Combi KV80SE Heater

Feature	Specification
Power	8.0 kW
Min Sauna Size	7 m ³
Max Sauna Size	12 m ³
Min Sauna Height	1800 mm
Cables	5 x 2.5 mm ²
Fuse	3 x 16 A
Voltage	400V 3N~
Width	400 mm
Height	640 mm
Depth	360 mm
Max Stone Quantity	20 kg
Water Reservoir	5 L
Steam Production	2.5 (unit not specified, likely L/h or kg/h)

Harvia Xenio CX110C Control Panel

Feature	Specification
Temperature Adjustment Range	40–110 °C
Humidity Adjustment Range	20–95 rH
Operating Time (Family Saunas)	1–6 h
Operating Time (Public Saunas)	1–12 h
Pre-programming Time	0–12 h
Dimensions (W x H x D)	85 mm x 24 mm x 110 mm

Power Unit

Feature	Specification
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Feature	Specification
Supply Voltage	400 V 3N~
Max Power to Heater	11 kW
Max Power to Combi with Contactor	17 kW
Max Power via LTY17C Extension Unit	28 kW
Lighting Control Power	Max 100 W, 230 V 1N~
Fan Control Power	Max 100 W, 230 V 1N~
Dimensions (W x H x D)	272 mm x 70 mm x 193 mm

Temperature and Humidity Sensors

Feature	Specification
Temperature Sensor	WX232 (resettable overheat safety, NTC thermistor 22 kΩ/T=25 °C)
Humidity Sensor	WX325 (measures temperature and relative humidity)
Cable Length	Approx. 4 m
Weight (with leads)	175 g
Dimensions (W x H x D)	51 mm x 73 mm x 27 mm

7. WARRANTY AND SUPPORT

For warranty information, spare parts, or technical support, please contact Harvia customer service or your authorized Harvia dealer. Information regarding the availability of spare parts for this specific model is currently unavailable in the product specifications. Always use genuine Harvia spare parts for repairs.

Manufacturer: Harvia



