HUUM GSM/ Wi-Fi/ Local Heater Control Console User Manual

**UKU GSM/ Wi-Fi/ Local
HEATER CONTROL CONSOLE
Installation and User Instructions**

CE IPX4 UK CA [WEEE symbol]

⚡ **NB!** The electrical work described in this manual must be carried out by a certified electrician.

The devices set contains:

- UKU control panel;
- main module (65 mm×165 mm×245 mm);
- thermal sensor;
- door sensor;
- thermal and door sensor cabels (5+5 m; 2×0,34 mm²);
- UKU control panel cabel (3 m; 4×0,34 mm²).

NB! Keep this operating manual near the device so that at any time you can get safety and important information for using the device.

Contents

BEFORE INSTALLATION

Before installation read the operation manual thoroughly This way you can use all the benefits of the device and prevent damage.
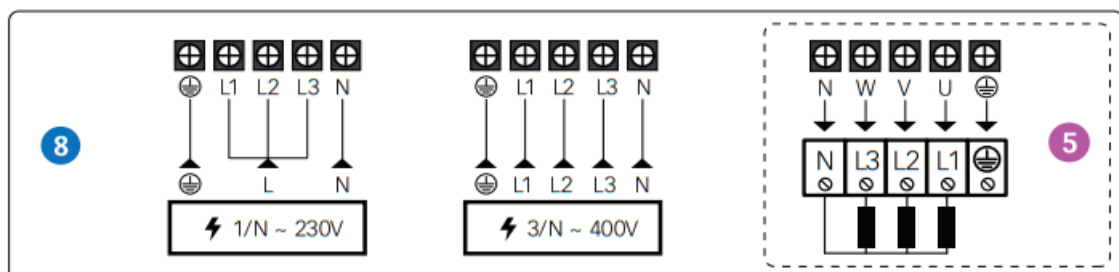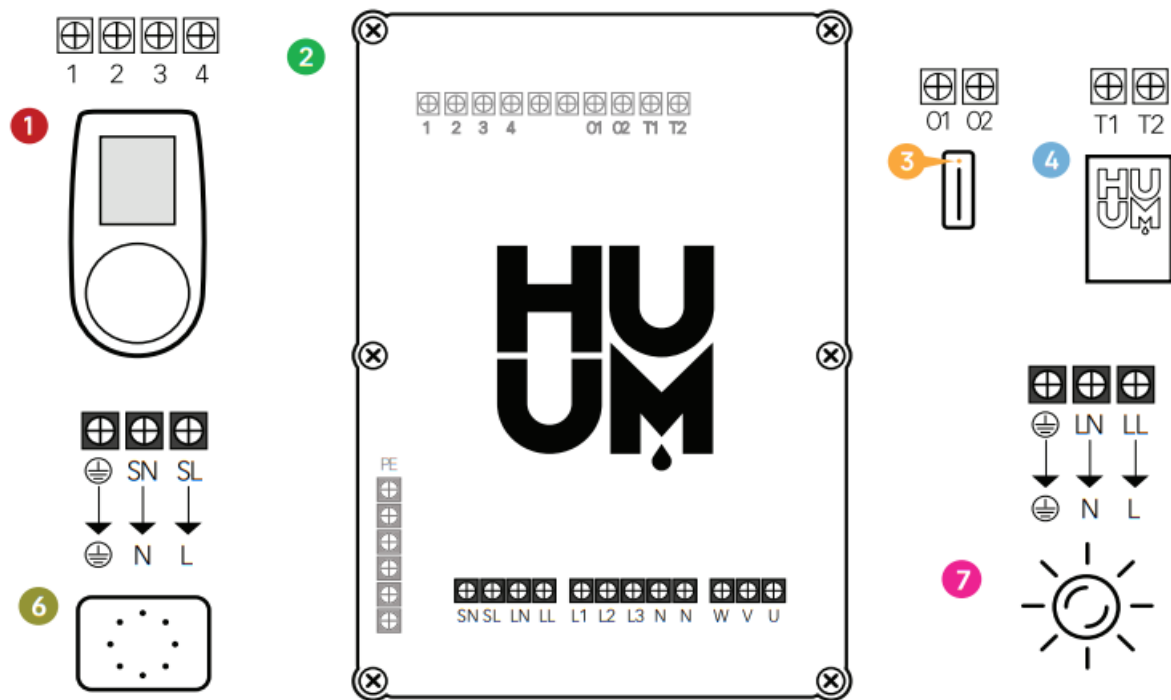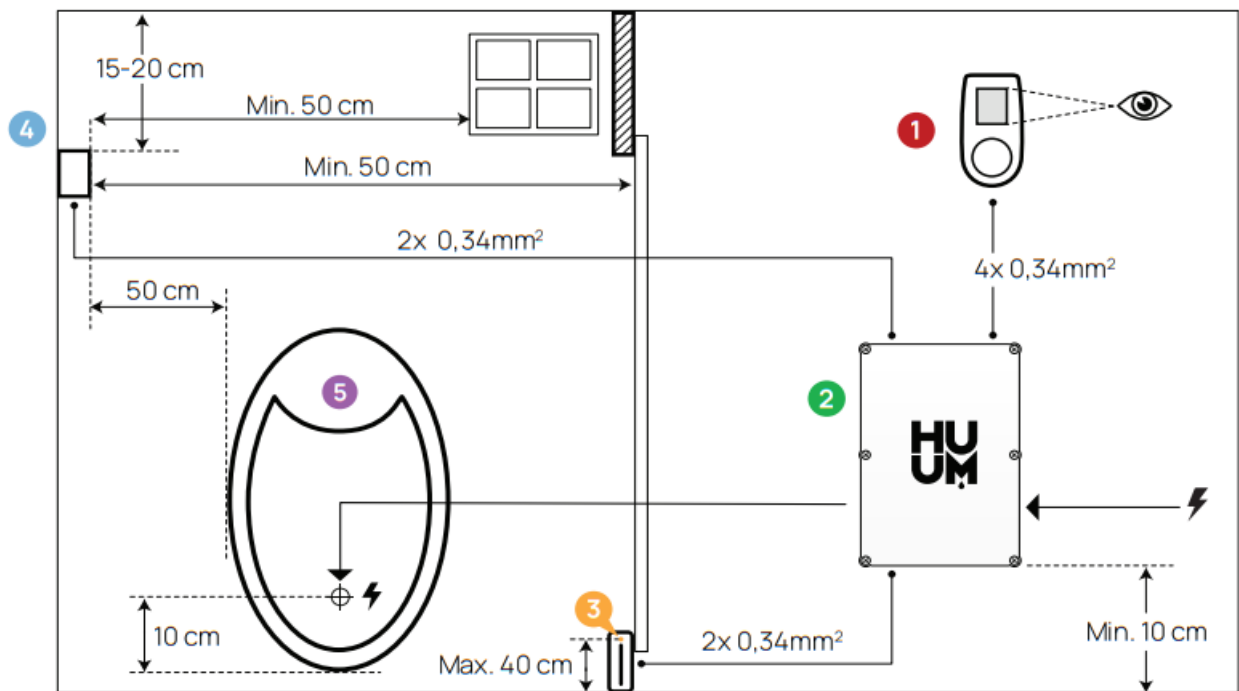
- Only an electrician or a person with equal qualifications may install the device.
- Installation and maintenance of the device is only allowed when it is not under voltage.

- For unique problems that are not covered in the installation manual, contact your vendor to ensure safety.
- It is not permitted to alter or rebuild the control device without authorisation.
- The manufacturer has the right to make improvements to the device. The latest version of the operation manual can be found on the manufacturer's webpage (**www.huum.eu**).
- Make sure that the building's cables from the main switchboard to the sauna's desired location have sufficient a cross section. In case of an older building, pay attention to the condition of the connecting boxes and if possible, install a new cable from the switchboard to the sauna. Install separate protection for the heater.
- It is recommended to connect the unit to the mains without an earth-leakage circuit breaker.
- This product is intended to operate with equipment that meets the requirements of EN 60335-2-53: 2011.

Symbols used in the installation manual
In the guide, the following details of the sauna are marked with numbers:

1. UKU control panel
2. Main controller
3. Door sensor
4. Temperature sensor
5. Heater (not included)
6. Vaporiser (not included)
7. Light (not included)
8. Connecting of 1-phase heater
9. Connecting of 3-phase heater

Installation diagram

15-20 cm
Min. 50 cm
Min. 50 cm
2x 0,34mm²
50 cm
4x 0,34mm²
10 cm
Max. 40 cm
2x 0,34mm²
Min. 10 cm

1 2 3 4

SN SL
N L

O1 O2

T1 T2

PE
SN SL LN LL   L1 L2 L3 N   W V U

LN LL
N L

1/N ~ 230V
3/N ~ 400V

N W V U
N L3 L2 L1

1/N ~ 230V

N W V U
N L1

WARNING! Not following these instructions may lead to serious or fatal injuries.
CAUTION! Not following these instructions may lead to minor to semiserious injuries or cause damage to objects.
NB! Also follow the special safety requirements given in the individual chapters. Dispose of the package material according to the applicable disposal rules and regulations.

INSTALLING UKU ELECTRICAL CONTROL DEVICE

- Before installation disconnect the electric heater from the power supply in the switchboard.
- The control device 1 must be installed outside the steam room, at the user's eye level next to the door or according to the manufacturer's recommendations.
- If your main controller 2 supports the use of Wi-Fi or GSM connections it must be installed where the appropriate reception is available.
- The device must be installed in a dry place. The protection degree of the device is IP65.
- Do not exceed an ambient operating temperature of 50°C and relative humidity of 95%.

CAUTION! The control device must be connected to the mains permanently without plugs. The power cable of the heater must be at least SiHF-J or equivalent. The cables cross-section depends on the power of the heater. See the heater manual.
NB! Measure the lengths of the cables and determine the locations of the cables and the parts of the device (Figure).
NB! When connecting the the control device with a singel phase make sure the fuse where the power is coming from has the necessary amperage and that all the outputs (U, V, W, N, PE) are connected with a separate wire.

Control panel UKU 1

With a wooden housing

- Remove the back cover of UKU control panel to attach it to the wall.
- Attach the back cover to the wall so that the upper edge of the control panel is at eye level.
- Connect the power cable with the screw terminal of the device.
- Attach the device to the back cover that has been placed on the wall. Secure it with screws from the sides.

With a plastic housing

- Connect the power cable with the cable screws of UKU control panel.
- Pull off the control panel control knob.
- Attach the device with screws to the wall.
- Replace the control knob to the control panel.

Main module 2

- When installing inside the steam room, the enclosure should be placed 10-50 cm above the floor.
- Do not attach the main module to the ceiling or inclined surfaces.
- Connect the cables of the UKU control panel, temperature sensor and door switch through a cable gland to the enclosure and main module, see figure.
- Connect the power cable (230 V/400 V) of the control console through the cable glands to the main module, see figure.

Door sensor 3

- The door switch consists of two parts: a sensor and a magnet.
- Use a 5 mm diameter drill when installing a door sensor recessed in the door frame.
- Install the door sensor at a maximum height of 40 cm from the floor.
- Connect the cable ends to the terminals of the sensor.
- Secure the magnet to the door. It must allow the door to close and pass directly by the doorpost.
- Secure the sensor to the doorpost so that when the door closes, the sensor and the magnet will be aligned. The maximum distance between the parts of the door switch must be 5 mm when the door is closed.

Temperature sensor with overheating protection 4

- Connect the cable to the temperature sensor's plug, see figure
- Screw the temperature sensor onto the wall, see figure.
- The temperature sensor cannot be placed above the heater, it must be at least 50 cm away from it.
- The temperature sensor must be 15-20 cm from the ceiling.
- The temperature sensor must be at least 50 cm from any air opening (ventilation, door, window).

Vaporiser 6

- A vaporiser is connected to outputs SL SN as shown in the figure. If a vaporiser is connected, a vaporiser function must also be selected from the control console settings. See User instructions.

CAUTION! When connecting the control console with an electrical heater with vaporiser function ensure that the water tank is always filled with water. When the water tank is empty, the vaporiser function is disabled and there is a risk that the heating element may burn out.

Connection of a lighting system 7

- Lighting/ventilation can be connected to the outputs LL LN of the control console as shown in the figure. In that case it is possible to switch on/off the connected lighting/ventilation system from the control console.
- To use a lighting function, the lighting function must be selected from the control console settings. See User instructions.
- The maximum power of the lighting/ventilation system is 230V 100W 50Hz.

Connecting the Wi-Fi controller to the network

- Wi-Fi modem complies with 802.11 b/g/n standard. The controller is only compatible with 2.4 GHz networks. The connection will fail if your 5 GHz network is with the same name as 2.4 GHz one. The controller doesn't support Wi-Fi names and passwords longer than 20 characters.
- With the UKU control panel go to the settings menu (hold down button 10s).
- Go to "Wi-Fi settings".
- Go to "SSID" and select it.
- Next, select the correct Wi-Fi network from the menu.
- You can continue to enter the password after selecting a Wi-Fi network.

- After entering the password, choose connect and follow the instructions in the wizard.
- Follow the instructions in the "UKU Mobile App" section.

Connecting the GSM controller to the network

- After connecting the sauna to your user account in the app, the SIM card is activated. The SIM card and sauna will come online in 30 min. NB! Before the user account is connected to the sauna, the sauna will not come online!
- Because the GSM remote is using mobile data, it comes with a yearly fee. The first year is free to test the features. After that, the remote control of the sauna costs € 29 per year. If you do not want the mobile app after the free year you don't have to pay and can use the sauna only manually, through the control panel. Payment is made by credit card in the mobile app.
- Follow the instructions in the "UKU Mobile App" section.

UKU mobile app

The UKU Wi-Fi or GSM device can also be controlled by a smartphone with a special mobile application in addition to the control panel. This way you can put the sauna to work being far from home.
Download the HUUM application from the application page of your mobile phone's operating system:

- IOS – App Store;
- Android – Google Play;
- Web application – **app.huum.eu**
- Create a user account.
- Link the control console's ID (1XXXXX) to your user account. The ID number and code of the sauna are on the sticker of the main module.
- Check whether all the functions of the mobile application are working properly and your commands actually reach the sauna. Commands should be executed within 60 seconds. In case the functions of the mobile application do not work, contact the manufacturer: **support@huum.eu**.
- An unlimited number of users can be connected to one sauna.

NB! In case the control console is not connected to the user account in the mobile application, the sauna will not be connected with the network.
Upgrading the capacity of the Local remote control to the level of Wi-Fi remote control
By purchasing from the mobile application, you can activate software that converts UKU Local to UKU Wi-Fi. This update does not require a technician to be called.

TESTING

NB! Have a qualified electrician make the tests.
WARNING! Risk of electric shock. Tests must be carried out while the power is on.

- Check the power terminals of the circuit breaker and main module. Bad connections may cause a fire. Switch the power on from the switchboard on by using the circuit breaker. The screen will flash for a moment. The device is ready for use.
- Check the door switch: close the steam room's door. Turn the control console on. Set the temperature. Turn the

heating on. Contactors must switch on. Open the door. Contactors must switch off in 5-10 seconds. Close the door. Contactors must switch on again.

- Check the temperature sensor:

  • Install the protection. Switch the power off from the sauna's switchboard for quarter of minute and then on again. The control console must have turned off and when it is turned on, it must show the current temperature.

- The temperature is renewed periodically, one degree at a time – therefore it may take some time to reach the actual temperature reading.

- Set the desired temperature to 50 °C. Turn the sauna on.

  Check that desired temperature is maintained. Turn the heating off.

- Set the desired temperature. Turn the heating on. Check that the temperature is achieved and maintained.

OPERATION MANUAL

- To turn on the control panel, start or end the heating, press the button once briefly.

- During heating, the heating icon 𝗦𝗦𝗦 will appear above the temperature value.

- If the symbol ▪▎▍ appears on the status line, it means that GSM connection has been turned on. The sauna will not be connected to the network before it is connected to the app.

- The control console is connected to the network and ready for use, if ▪▎▍ appears on the status line.

- The signal strength of the cellular network is indicated by the filled bars.

- The screen is always active during heating.

- Using the sauna from the control panel you can choose between heating times of 3, 6 hours for private saunas, 12 hours for semi-public saunas and 18 hours for public saunas from the settings menu. When you use the mobile app, it is possible to choose the heating period.

- After the heating ends or after using the button the control console will turn off.

- The number displayed in the upper right corner of the screen is the target temperature of the sauna. The current temperature is displayed in the centre of the screen. Turn the knob to adjust the temperature.

- To adjust the heater's automatic steam function, turn the button while pressed. In the lower left corner, the setting is shown from 1 to 10.

- To get in the settings menu, press and hold the button for 10 seconds.

- From the settings menu it is possible to select between C (Celsius) and F (Fahrenheit).

- You can select between smart and simple heating algorithms: With a simple heating algorithm, all of the heating elements will be turned off as soon as the target temperature is reached. With a smart algorithm, the heating elements start turning off gradually one by one before the target temperature is reached. This helps to save power, especially with heaters using 50+ kg stones. NB! Not to be used with heaters that have less than three heating elements

- Vent/light – Turning this functionality on, will turn on whatever appliance is connected to the LN LL outputs for the selected time (10, 15, 20 min) whenever the door is opened.

🔒 Child lock

- The child lock function can be turned on from the settings menu.

- The child lock will automatically turn on when the screen of the control console turns off.

- When the child lock is on, hold down the button and turn it by quarter to the right, then back to the beginning, next turn by quarter to the left and back to the beginning to activate the screen.

⟲ Timer

- To activate the timer function, press and hold the button for 3 seconds.
- When the desired time is selected, a single short press on the button switches the timer on. The function of the timer will not activate, unless you press the button!

☼ Lighting

- A lighting function can be selected from the settings menu.
- When the lighting function is selected, the light is turned on and of with two quick button presses

⬤ Vaporiser

- A vaporiser function can be selected from the settings menu.
- When the vaporiser function is selected, steam is increased when the button is pressed, held and turned to the right, and steam is reduced when the button is turned to the left.
- Heat intensity is displayed as an indicator in the lower left corner (from 1 to 10).

Using the mobile app

- Set the desired temperature for the sauna and heating time (the last setting will remain in the memory).
- Turn the sauna on.
- More details are available in the application's instructions.

GENERAL SAFETY INFORMATION FOR THE USER

- If thermal protection (130° C) has tripped, check the sauna's con- dition and safety. If the heat sensor with overheating protection is to be replaced, contact the manufacturer **support@huum.eu**.
- For unique problems that are not covered in the installation manual, contact your vendor to ensure safety.
- For the safe use of the sauna's control device, it is not permitted to alter or rebuild the device.
- The manufacturer has the right to make technical changes to the device.

PURPOSEFUL USE

- Make sure that there are no objects on the heater. Even non- combustible items may cause overheating, resulting in a fire hazard.
- Close the steam room's door for the time the sauna is heated.
  Heating will not work with an open door.

- The 18 kW control console can be used with only three heating circuits with a maximum heating power of 6 kW per circuit.
- This device is not intended to be used by people with limited physical, sensory or mental abilities (including children) or by people with lack of experience and/or knowledge, unless they are supervised by a person responsible for their safety or they have received instructions from such a person.
- Ensure that children do not play with the device.
- For safety reasons, turn off the sauna's circuit breaker when the sauna is not being used.
- To use the remote control, check the heater condition and remove any items from the heater. Make sure steam room is safe and close the door.
- Old devices contain recyclable materials. Therefore, do not throw old devices into the household waste.
- Turn off the sauna's circuit breaker from the switchboard if you do not intend to use the sauna for an extended period.

WARRANTY TERMS FOR HUUM EQUIPMENT

- The warranty only applies to the product that has been installed and used in accordance with the manual.
- NB! The warranty does not apply to heating elements. They are considered as consumable parts.
- The warranty does not cover normal wear or improper use of the product.
- The warranty period is 5 years from the date of purchase (based on the purchase receipt).
- The warranty does not apply to defects caused by:
  • damage or defects due to transport and or other actions not controlled by manufacturer;
  • defects caused by carelessness, improper storage or overloading the product;
  • errors in the installation of the product due to noncompliance with the product's manual, operating instructions or safety requirements;
  • modifying the product in any way (parts added, removed or replaced);
  • product incompleteness;
  • using together with products that are not compatible with this device;
  • when the product warranty period has expired.
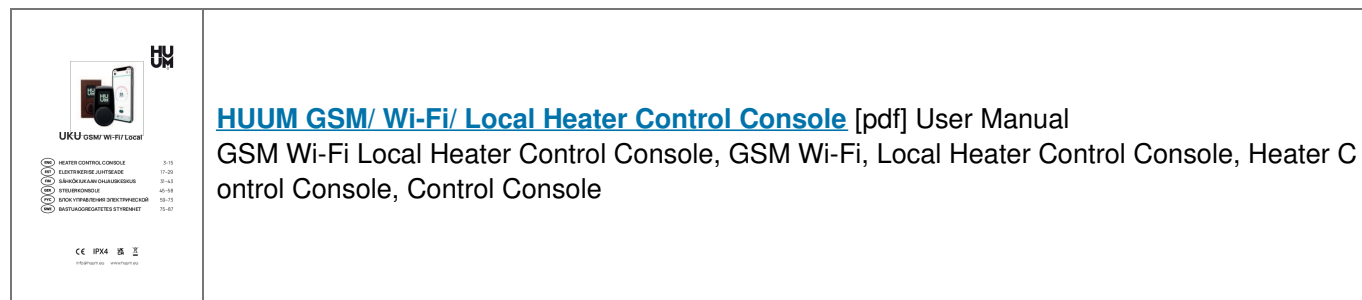
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NOTES

OF SAUNA

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Documents / Resources

[HUUM GSM/ Wi-Fi/ Local Heater Control Console](#) [pdf] User Manual
GSM Wi-Fi Local Heater Control Console, GSM Wi-Fi, Local Heater Control Console, Heater Control Console, Control Console

References

- **HUUM**
- **Saunakerised ja innovaatilised keriste juhtpuldid - HUUM**
- **Sauna heaters and innovative sauna controllers – HUUM**
- **Sauna heaters and innovative sauna controllers – HUUM**
- **Saunakerised ja innovaatilised keriste juhtpuldid - HUUM**
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