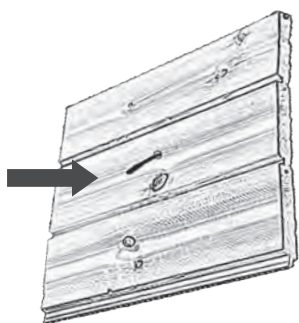## Installation of external control and sensor

The type E heater package includes:

Controller

Sensor

The most suitable location for installing the wall sensor is on the wall where the benches are mounted. Its distance to the ventilation duct should be at least 50 mm.

Drill a 3.5 mm hole in the wall panel and route the wire under the panel to the heater. Ensure that approximately 10 mm of the sensor remains visible. If needed, the sensor can be attached to the hole with a small drop of silicone adhesive. The length of the sensor cable is 6 m. Cut the excess wire and connect the other end to the heater. **Ensure that a minimum of 7 mm of the end of the wire is stripped to ensure a proper contact.**
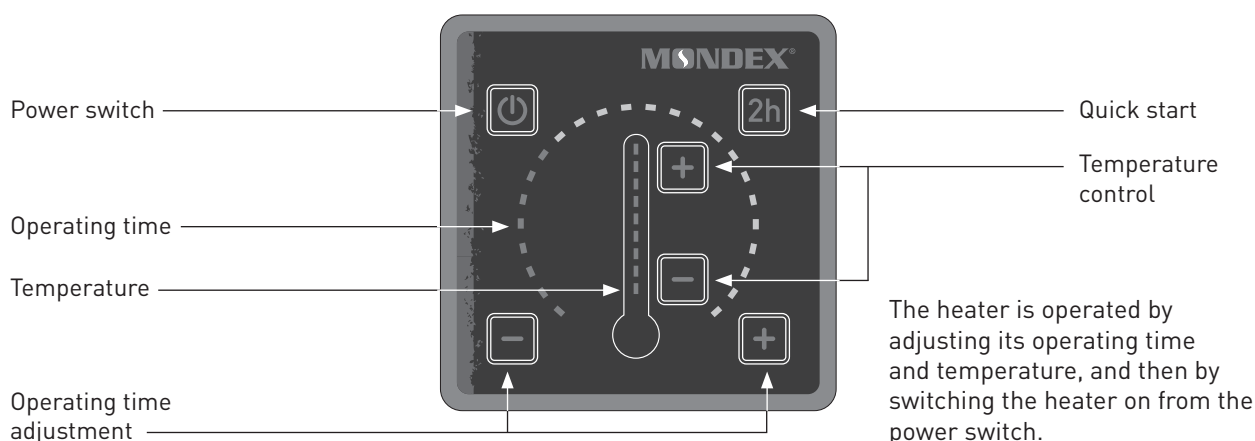
The wall mounting plate is either mounted to the wall using three screws or affixed to the bottom of the mounting box. The mounting plate is covered first with a cover plate and finally with the control panel. The length of the sensor cable is 8 m. Cut the excess wire and connect the other end to the heater. When installing the control panel, make sure that the cables do not become detached or bend.

NOTE!
Remove the plastic protection film of the control panel before using the heater.

11. Heater control and operation E type

Power switch

Quick start

Temperature control

Operating time

Temperature

The heater is operated by adjusting its operating time and temperature, and then by switching the heater on from the power switch.

Operating time adjustment

Normal start: Select the operating time with the control buttons.

The operating time is displayed in light bars. One bar equals 30 min. The maximum operating time is 4h.

Quick start: Press the quick start button. The heater will remain on for two hours.

Temperature control: Set the desired temperature with the control buttons.

One light bar affects the temperature by approximately 5°C.

Heater start-up: When the operating time and temperature have been set, switch on the heater from the power switch. NOTE! If the power switch is not pressed, the controller lights will keep blinking. NOTE! The heater will remember the previous temperature setting.

Timer function: You can set the heater to switch on in 30 min. – 8 hours. After that, the heater will remain on for 4 hours.

- Keep the operating time controller depressed until the red lights turn off.
- After this, the light bars will turn blue and each bar represents a period of 30 min.
- Select the desired temperature for the sauna with the temperature control buttons.
- You can switch off the heater at any time by pressing the power switch.

First time use of the heater (heater calibration)

Ensure that the main switch on the side of the heater is in the "I" position. Set the temperature to two LED lights from the bottom. Press the quick start button (**2h**). Switch the heater on by pressing the power switch in the upper left-hand corner. When 2 hours have elapsed or the blue LED light at the lower right-

hand corner has turned off, the heater calibration is complete. Do not open the sauna door during the calibration. During the calibration, the heater "teaches itself" to heat up optimally according to the size of the sauna. The heater can be used normally after the calibration. NOTE! The heater must be filled with heater stones before the first use (calibration).

Resetting the heater

Switch off the heater from the main switch located on the lower right-hand side of the heater. Keep the temperature control **+** and **–** buttons depressed. Switch the main switch of the heater on again while keeping the **+** and **–** buttons depressed. The heater is now ready for calibration. For calibration instructions, see "First-time use of the heater (heater calibration)".

Error codes

If the heater encounters an error, the electronics will turn off the resistors and indicate the controller faults with blue lights as follows:

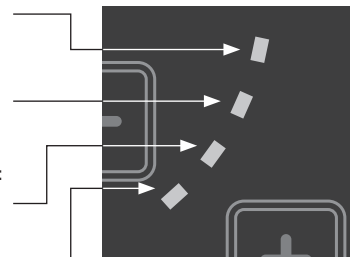4th light from bottom: **Relay fault**

3rd light from bottom: **Short circuit of the thermal sensor**

2nd light from bottom: **Contact failure of the thermal sensor**

1st light from bottom: **Calibration status**

Overheating protector

The overheating protector reset button is located above the heater's main power switch under a protective cap. Twist the cap to open. The red reset button located under the cap is 3.5 mm thick.