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Installation instructions

The control panel can be installed inside or outside the sauna/steam room. If installing it inside, the upper edge must not be more than 90 cm above the floor.

The unit can be mounted on the wall using the bracket or double-sided adhesive supplied. If using the bracket, mount the control panel on the bracket using adhesive.

A 30 mm hole through the wall is required if mounting the control panel directly on the wall.

Installation with bracket

Use the bracket as a template to mark up screw holes on the wall. Tighten the screws a little until the bracket is loosely secured.

Remove the bracket from the wall. Use adhesive to mount the control panel on the bracket. Remember to position the switch according to the picture (the lock tongue should be to the left when seen from below).

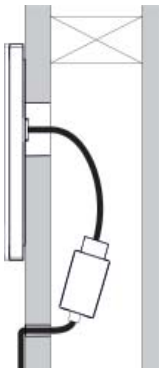


Mount the bracket as low as possible on the control panel. Install the panel on the wall. Use the control panel wire supplied to connect the panel to the heater. If the wire is too long, cut it to the appropriate length and use the extra contact supplied. NB: special pliers are required (crimp pliers for RJ10).

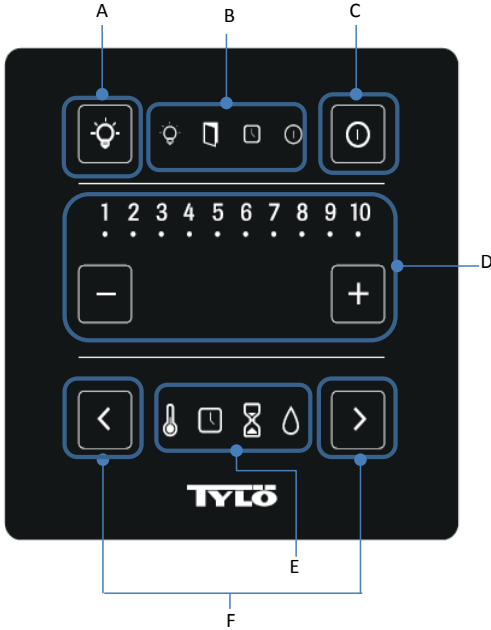
Installation without bracket

Attach the double-sided adhesive to the control panel. Before attaching the panel to the wall, connect it to the heater to check that everything works. Remove the protective backing from the adhesive. Silicon sealant can be applied in the groove on the back of the panel as an extra seal against moisture. Connect the panel wire, pass the contact through the hole in the wall and press the panel firmly against the wall.

If fitting the panel without the bracket but need to run the wire outside the wall, the following solution can be used (see diagram). Remember that the hole through which the contact will pass must be min. 30 mm.



User Guide



- A. Light - Switches light on/off
- B. Indicators for light, door contact, delayed start and to show that the heater is working.
- C. Start, stop and error indication
- D. Enter values.
- E. Function selection for temperature, delayed start, operating time and humidity (for certain products only).
- F. Function selection buttons.

First start

Set heater switch to ON. The indicator diodes (B) will flash a few times. This indicates that the control panel is connecting to the heater. When contact is made, the diodes will cease flashing and diodes 1-7 (D) corresponding to the program no. selected will flash 4 times to show setting. This will also occur after any disconnection of power.

Pure's default setting is to regulate a heater to max. 110°C and max. operating time of 6 hours. Maximum temperature and operating time can be adjusted.

There are 7 basic settings/programs for temperature and operating time. They are:

Program	Max. temperature	Max. operating time
1	110 °C	6 h
2	110 °C	10 h
3	110 °C	24 h
4	90 °C	1 h
5	90 °C	24 h
6	55 °C	10 h
7	55 °C	24 h

How to program:

1. Connect the control panel to the heater. Wait until contact between them is established. Once started, programming must be started within 5 minutes.
2. Press the left arrow. The ON diode (C) will start to flash. After 5 seconds, it will be lit continuously. Release the button.
3. Press the right arrow. The node diodes will start to flash (F). After 5 seconds, they will light continuously and the program selection diode will light (D). Release the button.
4. Scroll to the program required and confirm with ON.
5. Restarting the system.
6. The active program diode will flash 4 times when starting.

If changing the program later, disconnect the control panel to perform the above procedure within 5 minutes of restart.

Start

To start the sauna, press (C). The last temperature setting and operating time will be used. The symbol will light in the indicator field to show that the heater has started.

To switch off the sauna before the end of the operating time set, press the same button again.

Setting temperature

Use the function selection buttons (F) to select temperature setting. Use the - and + buttons to then select temperature setting 1-10. The temperature obtained depends on the max. temperature set, i.e. which program has been set. Temperature can be adjusted whilst taking a sauna if required.

Max. temperature	Set temperature (approx. value, °C)									
	1	2	3	4	5	6	7	8	9	10
55 °C	20	24	28	32	36	39	43	47	51	55
90 °C	30	37	43	50	57	63	70	77	83	90
110 °C	65	70	75	80	85	90	95	100	105	110

Once the temperature has been set and the heater started, the set temperature will be indicated continuously and actual temperature will be indicated by a flashing indicator. Once the actual temperature reaches the set value, the flashing will stop.

Setting delayed start

You can set a time when the heater is to start after a certain time. A door contact must be connected for this purpose (see "Connecting door contact and its function"). Use the function selection buttons (F) to select the timer symbol. Use the - and + buttons to select the number of hours until the heater is to start (1-10 hours). Activate delayed start by pressing the Start button (C).

The indicator symbol for delayed start will light (field B) and the time delay diode will start to flash. The flashing indicator will count down and show the actual time remaining until the heater starts. Once the heater starts, the panel will switch to showing set temperature automatically.

The door contact to be used is Tylö item number 90908035.

Setting sauna time

Sauna time is set when the heater is OFF. Use the function selection buttons (F) to select operating time setting. Use the - and + buttons to then select operating time 1-10. Operating time depends on the max. operating time set, i.e. which program has been set.

Version	LED indicators									
	1	2	3	4	5	6	7	8	9	10
1 h	6 min	12 min	18 min	24 min	30 min	36 min	42 min	48 min	54 min	1 h
6 h	1 h	2 h	3 h	4 h	5 h	6 h				
10 h	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	9 h	10 h
24 h	2 h	4 h	6 h	8 h	10 h	12 h	14 h	16 h	18 h	24 h

Connecting door contact and its function

A magnetic contact to detect when the door is open can be connected. The contact to be used is Tylö item number 90908035. The contact is connected to the heater according to the instructions supplied. A door contact must be connected for the delayed start function. A door contact must also be connected to use an external switch. If the heater has been programmed for delayed start and the door is opened after the program is activated, the program will be disrupted and the indicator will flash. To reactivate the program for delayed start, press the Start button and close the door within 60 seconds. If the panel is placed inside the sauna, you have 60 seconds to go out and close the door once delayed start has been activated.

If the door is opened and left open for more than 5 minutes during operation, the heater will be switched off and error code 19 will show on the panel.

Using an external switch

An external switch for starting/stopping the heater not mounted on the control panel can be connected. A door contact must be installed. See wiring diagram supplied with external switch for connection. We recommend using Tylö's external switch (item number 90908045). This also provides indication via LED of whether the sauna is on, programmed for delayed start and error status for a magnetic door contact (if fitted)

A continuous light indicates that the heater is on.

Slow flash indicates that the heater is programmed for delayed start.

Rapid flash indicates that the door has been opened when the heater is programmed for delayed start. Alternatively, the door has been open for more than 5 minutes during operation or has been opened after the heater has been switched off. The control panel will then require resetting.

Error message

If an error should occur on the heater or other equipment (control panel, temperature sensor etc.) an error message will be shown using LED indicators. The indicator LEDs will flash whilst one LED on the 1-10 scale is continuously lit or flashes. If it lights continuously, it refers to error message 1-10 and if it flashes, it refers to error messages 11-20.

Error messages (– indicates not relevant to this application):

1. Temperature sensor not connected or faulty
2. -
3. Heater circuit board overheated
4. -
5. -
6. Contact between heater and control panel lost
7. Contact with temperature/humidity sensor lost
8. -
9. Communication with timer lost
10. Current to timer disrupted
11. -
12. -
13. Humidity sensor faulty
14. Temp. sensor faulty
15. Communication problem with heater
16. Temperature cut-out activated and must be reset
17. Too many humidity sensors connected
18. Too many temperature sensors connected
19. Door has been open for more than 5 minutes when the sauna is on.
20. Door opened more than 60 seconds since the last shut-down or delayed start activated, and door opened more than 60 seconds after activation.

For certain errors, disconnecting current to the heater for a brief period and then reconnecting can be tried. This mostly concerns problems that have occurred with communication between units connected.

In the event of error number 3, the heater will be automatically switched off. When the temperature has dropped approx. 20°C, the sauna heater can be restarted. Always investigate why the heater overheated. It can be the result of insufficient ventilation or that the heater needs crumbled stone removed.

Contact your dealer for other errors or if an error cannot be corrected according to the above. Check the heater's type plate and note the type, serial number, year of manufacture and make a note of any error code on the control panel before contacting TyLö Customer Support.