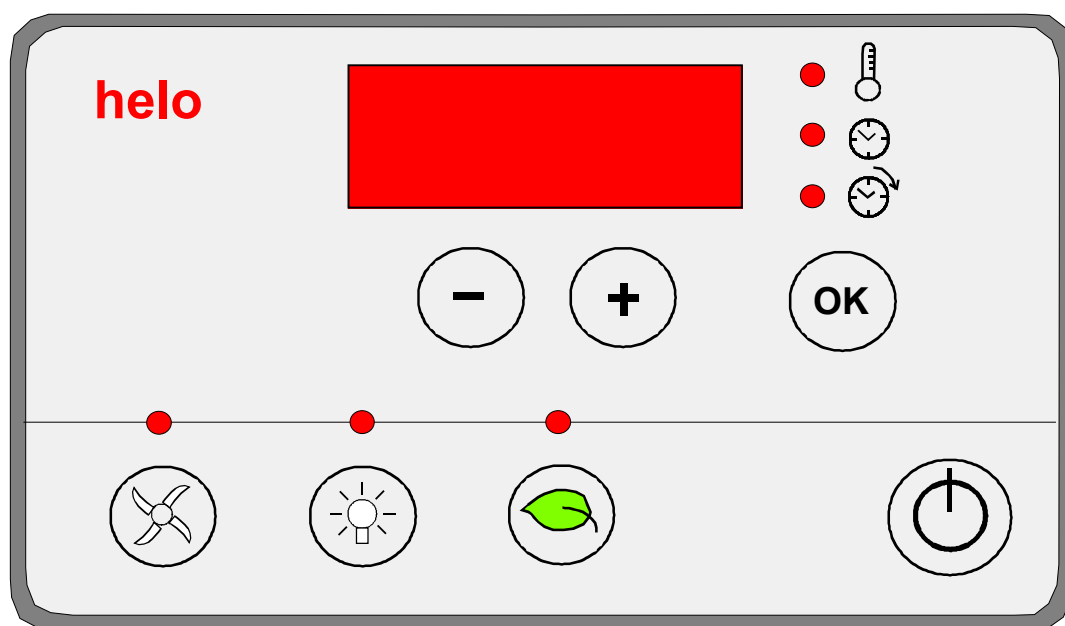


User and installation manual **Smart**

CONTROL CENTRE:

1601 - 26 (RA - 26)



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1. General

1.1 Check before taking a sauna bath that:

1. The sauna room is suitable for taking a sauna bath.
2. The door and the window are closed.
3. The sauna heater is filled with stones that comply with the manufacturer's recommendations, the heating elements are fully covered, and the stones are placed loosely around the elements.
4. Pleasant, smooth sauna bath temperature is about 70 °C.

For additional information about enjoying a sauna bath, please visit our website at www.helo.fi

NOTE: Structural clay tiles are not allowed.

1.2 Control panel in general

The control panel is must be mounted outside the actual sauna room – it is rated to IP X4.

The main switch for the sauna heater is located at the foot of the sauna heater or in the contactor case. (For more specific instructions, see the user manual for the contactor box).

One should not sit in a sauna for more than six hours.

Temperature adjustment 5 – 110 °C.

Pre-set time 0 – 23 hours.

The control panel fits the following sauna heater models.

- 1112 - ... - 0405 (LM - ... - DE

The control panel fits the following contactor case models.

- 2005 – 11 (WE – 11)

1.3 Installing the control panel



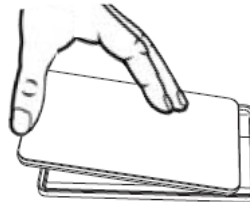
Undo the screw securing the top of the control panel.



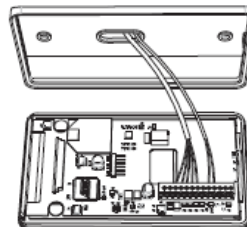
Fit the bottom piece for the control panel

NOTE: If the control panel is installed in a humid place, use the seal that comes along with it.

The seal is placed between the base part and the wall part. The panel is rated to IP X4.

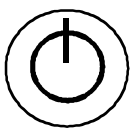
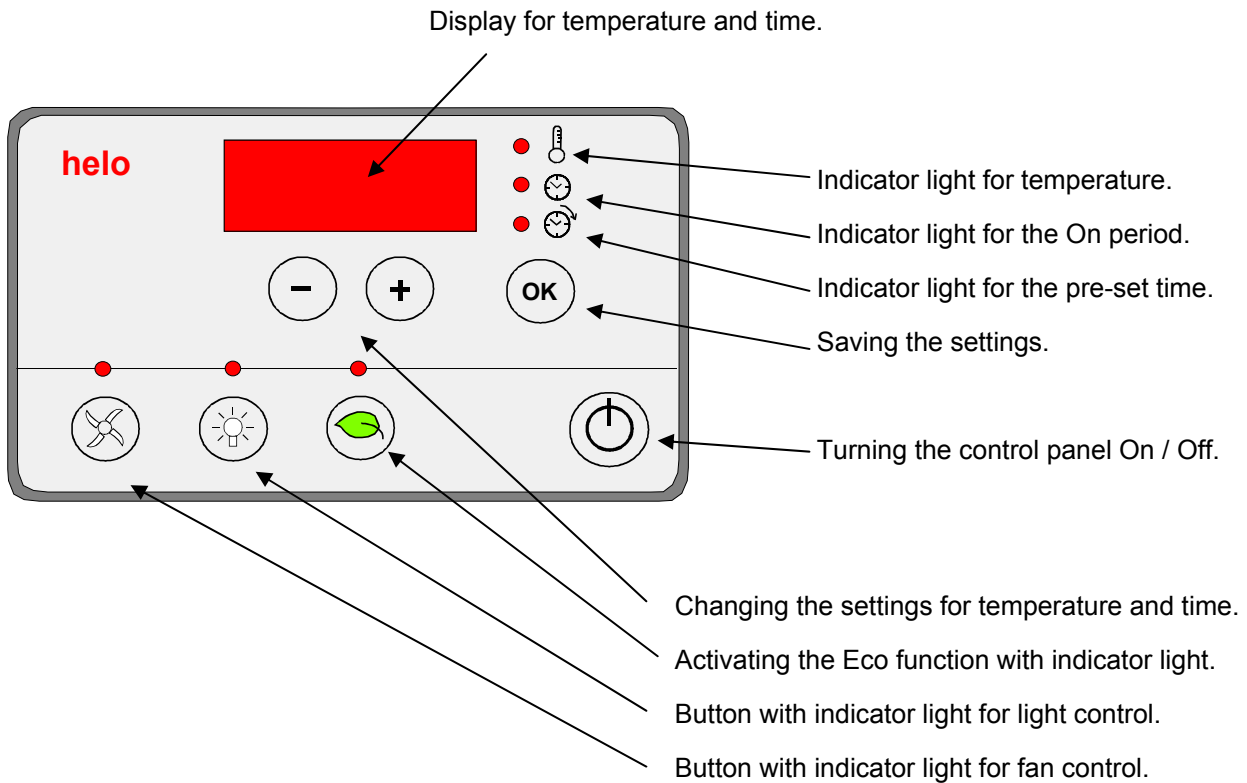


Remove the control panel frame and lid.



Install and connect the cable. For connecting instructions, see page 8.

2 Using the control panel



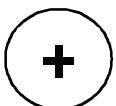
On/Off button

When the unit is in standby mode (displays are off) pressing the button will activate the programme. Quick starting the sauna heater is done with this button. When the unit is active, pressing the button will end all functions and turn off the control panel / sauna heater



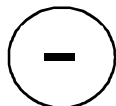
OK button

This button is used for confirming changes in settings and / or moving to the next setting depending on the control centre mode (temperature, the On period or pre-set time)



+ button

Increases the setting. You can select values more quickly by holding the button down.



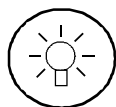
- button

Decreases the setting. You can select values more quickly by holding the button down.



Fan button

Activates the relay on the circuit board. The sauna heater has fan connections N and a Fan symbol, voltage of 230 VAC and a maximum power of 100W. The LED light on the control panel above the Fan button is on when the fan control is active.



Light button

Activates the relay on the circuit board. The sauna heater has light connections N and a Lamp symbol, a voltage of 230 VAC and a maximum power of 100W. **NOTE: Resistive load, not suited for an electronic transformer (switched-mode power supply).** LED light above the Light button on the control panel is on when the light(s) are on.

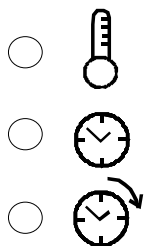


Eco button

Activates the selected Eco function. Activation and selection is done while the control panel is Off.

Indicator lights

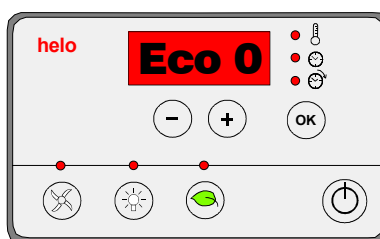
When the indicator light is flashing, the temperature and time can be changed by pressing the + and – buttons.



The indicator light for temperature begins to flash when the On/Off button is pressed. The temperature can be changed with the + and – buttons, and set by pushing the OK button or waiting five seconds to move automatically to the time setting for the sauna heater. The indicator light for the On period for the sauna heater flashes, which means the time can be changed with the + and – buttons. The maximum time for taking a sauna bath is six hours. Press the OK button or wait for five seconds. The next light to flash is the indicator light for the pre-set time. The pre-set time for the sauna heater can be changed with the + and – buttons, 0–23 hours. The selection can be confirmed by pressing OK button or by waiting for five seconds. If the pre-set time is 0, the sauna heater activates instantly according to the set On period.

2.1 Choosing the measurement unit

When in Off mode, press the OK button and the display will show the software version; press it again, and it will show the current measurement unit for temperature. You can toggle between Celsius and Fahrenheit by pressing the + button.

**2.2 Eco function**

The Eco mode means functions that can help save energy by reducing unnecessary heating time.

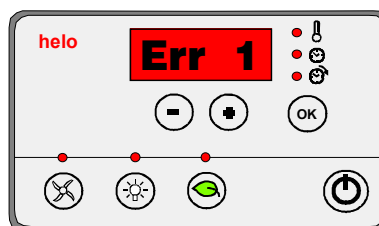
Using the Eco function

The Eco function is selected when the control panel is in Off mode. Pressing the Eco button displays the setting from the control panel memory (Eco 0...2). You can toggle between settings by pressing the Eco button and confirm it by pressing the OK button or waiting for five seconds, which will exit Eco mode automatically.

After the sauna is heated to the set temperature a signal will sound (buzzer) and an Eco sign is shown on the control panel. You can exit Eco mode by pressing the Eco button in order to change to a normal bathing programme.

Eco modes

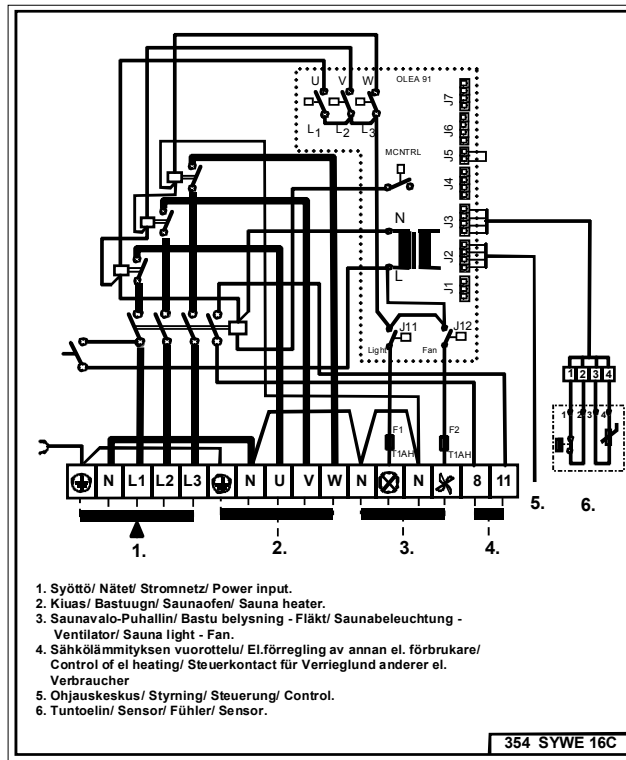
- Eco 0 Eco function is not active.
- Eco 1 The heating will stop after five minutes. Before the sauna heater stops, the temperature setting is decreased by 2 degrees Celsius.
- Eco 2 The heating will stop after 20 minutes. Before the sauna heater stops, the temperature setting is decreased by 10 degrees Celsius.

2.3 Alerts

- **Err1** serial communication is not functioning.
- **Err2** temperature limiter is broken.
- **Err3** thermostat sensor 1 is faulty.
- **Err4** if installed, thermostat sensor 2 is faulty.

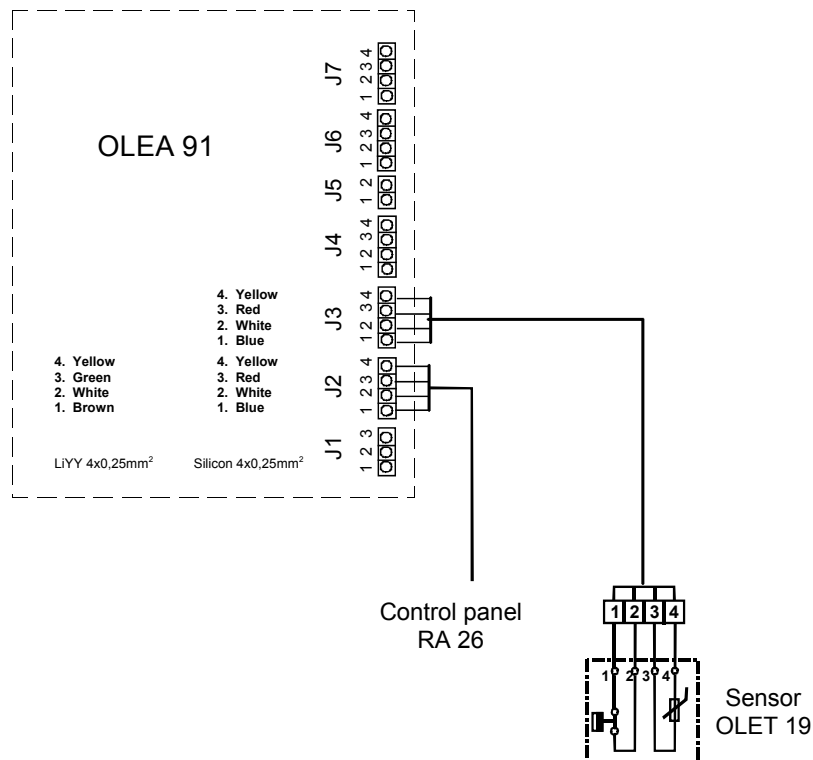
You can acknowledge the alert by pressing the On – Off button.

2.4 Wiring diagrams

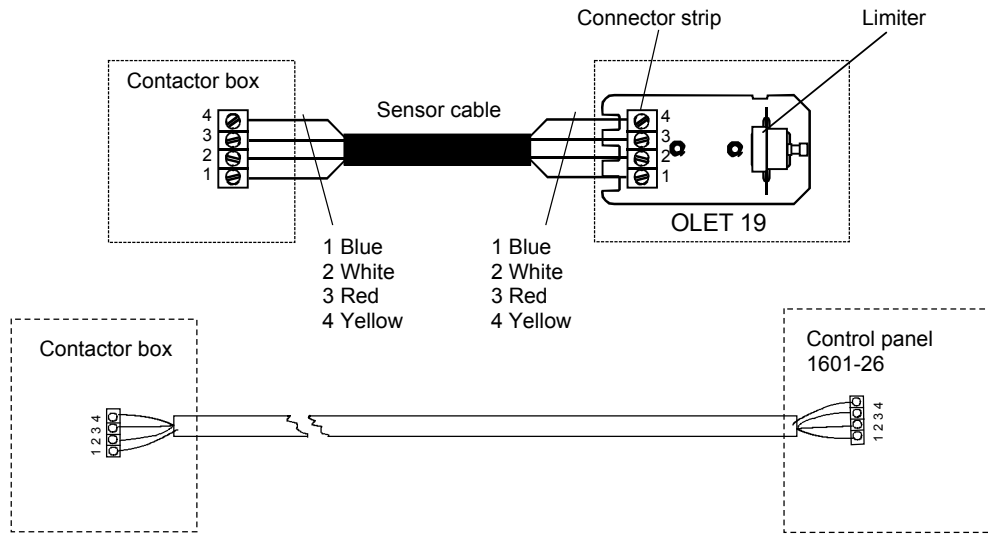


Contactor box WE 11 400V – 415V 3N~

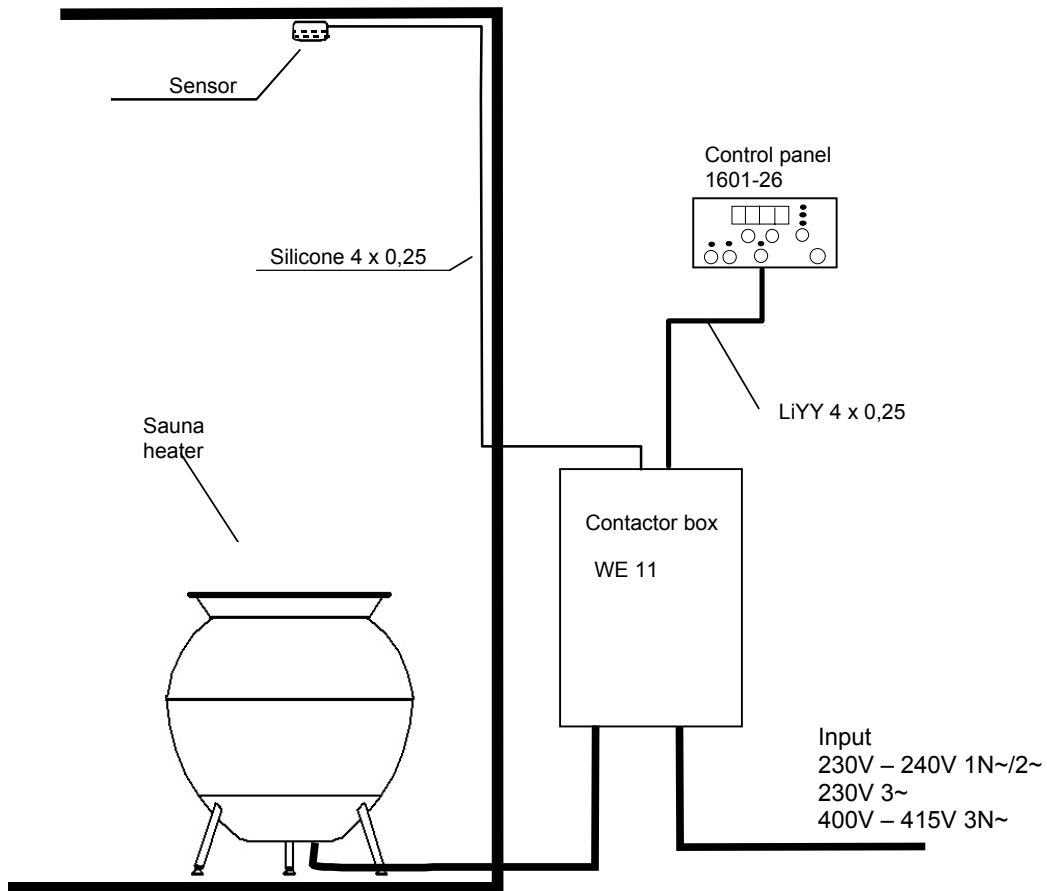
2.5 Connecting wires for circuit board OLEA 91



2.6 Connection method



- | | | | |
|-----------|------|--------|-------|
| 1. Ruskea | Brun | Brown | Braun |
| 2. Valk | Vit | White | Weiß |
| 3. Vihreä | Grön | Green | Grün |
| 4. Kelt | Gul | Yellow | Gelb |



2.7 Electric heating toggle

Electric heating toggle applies to homes with an electric heating system.

The contactor case and the sauna heater have connections (marked N - 55) for controlling the electric heating toggle. Connectors N – 55 and the heating elements are simultaneously live (230V).

2.8 If the sauna heater will not heat up

If the sauna heater will not heat up, please check that:

- the electricity isolator is turned on.
- the front fuses of the sauna heater are intact.
- there are no error messages on the control panel. If the display has an error message, see the control panel manual chapter 2.3 on page 5.

2.9 Main connection

The sauna heater must be connected to the mains by a qualified electrician and in compliance with current regulations. Sauna heater is connected with a semi-permanent connection. Use H07RN-F (60245 IEC 66) cables or a corresponding type. Other output cables (signal lamp, electric heating toggle) must also adhere to these recommendations. Do not use PVC insulated cable as a connection cable for the sauna heater.

A multipolar (e.g. 7-pole) cable is allowed, if the voltage is the same. In the absence of a separate control current fuse, the diameter of all cables must be the same, i.e. in accordance with the front fuse.

The connecting box on the sauna wall should be located within the minimum safety clearance specified for the sauna heater. The maximum height for the connection box is 500mm from the floor.

If the connection box is located at 500 mm distance from the heater, the maximum height is 1000 mm from the floor.

Sauna heater insulation resistance: The sauna heater's heating elements may absorb moisture from the air during storage etc. This may cause low resistance. The moisture will be gone after a few heating sessions. Do not connect the heater power supply through an earth leakage trip.

However, adhere to the effective electrical safety regulation when installing the sauna heater.

3. ROHS

Ympäristönsuojeluun liittyviä ohjeita

Tämän tuotteen käyttöiän päätyttyä sitä ei saa hävittää normaalin talousjätteen mukana, vaan se on toimitettava sähkö- ja elektroniikkalaitteiden kierrätykseen tarkoitettuun keräyspisteeseen.

Symboli tuotteessa, käyttöohjeessa tai pakkauksessa tarkoittaa sitä.



Valmistusaineet ovat kierrätettävissä merkintänsä mukaan. Käytettyjen laitteiden uudelleenkäytöllä, materiaalien hyödyntämisellä tai muulla uudelleenkäytöllä teet arvokkaan teon ympäristömme hyväksi. Tuote palautetaan ilman kiuaskiviä ja verhoukiviä kierrätyskeskukseen.

Tietoa kierrätyspaikoista saat kuntasi palvelupisteestä.

Instructions for environmental protection

This product must not be disposed with normal household waste at the end of its life cycle. Instead, it should be delivered to a collecting place for the recycling of electrical and electronic devices.

The symbol on the product, the instruction manual or the package refers to this.



The materials can be recycled according to the markings on them. By reusing, utilising the materials or by otherwise reusing old equipment, you make an important contribution for the protection of our environment. Please note that the product is returned to the recycling centre without any sauna rocks and soapstone cover.

Please contact the municipal administration with enquiries concerning the recycling place.

Anvisningar för miljöskydd

Denna produkt får inte kastas med vanliga hushållssopor när den inte längre används. Istället ska den levereras till en återvinningsplats för elektriska och elektroniska apparater.

Symbolen på produkten, handboken eller förpackningen refererar till detta.



De olika materialen kan återvinnas enligt märkningen på dem. Genom att återanvända, nyttja materialen eller på annat sätt återanvända utsliten utrustning, bidrar du till att skydda vår miljö.

Produkten returneras till återvinningscentralen utan bastusten och eventuell täljstensmantel.

Vänligen kontakta de kommunala myndigheterna för att ta reda på var du hittar närmaste återvinningsplats.

Hinweise zum Umweltschutz

Dieses Produkt darf am Ende seiner Lebensdauer nicht über den normalen Haushaltsabfall entsorgt werden, sondern muss an einem Sammelpunkt für das Recycling von elektrischen und elektronischen Geräten abgegeben werden.

Das Symbol auf dem produkt, der Gebrauchsanleitung oder der Verpackung weist darauf hin.



Die Werkstoffe sind gemäß ihrer Kennzeichnung wiederverwertbar. Mit der Wiederverwendung, der stofflichen Verwertung oder anderen Formen der Verwertung von Altgeräten leisten Sie einen wichtigen Beitrag zum Schutze unserer Umwelt. Dieses Produkt soll ohne Steine und Specksteinmantel an dem Sammelpunkt für Recycling zurückgebracht werden.

Bitte erfragen Sie bei der Gemeindeverwaltung die zuständige Entsorgungsstelle.