

Instructions for installation and use

# ROCHER

Electric sauna heater:

1118-700-0405

1118-900-0405

1118-1050-0405

Connectable to the following control panels:

1601-12 (Control panel RA 12 Digi II)

1601-13 (Control panel RA 13 Digi I)

1601-16 (Control panel RA 16 Easy)

1601-18 (Control panel RA 18 Midi)



314 SKLT 17 A

## Contents

|     |                                                                    |    |
|-----|--------------------------------------------------------------------|----|
| 1   | Quick start guide for the sauna heater                             |    |
| 1.1 | Check list before taking a sauna bath                              | 3  |
| 1.2 | Operation of the sauna heater controls                             | 3  |
| 2   | Information for users                                              |    |
| 2.1 | Sauna room                                                         | 3  |
| 2.2 | Recommended sauna room ventilation                                 | 3  |
| 2.3 | Preparing for piling the stones                                    | 4  |
| 2.4 | Sauna heater stones                                                | 5  |
| 2.5 | Accessories                                                        | 5  |
| 2.6 | Heating the sauna                                                  | 5  |
| 2.7 | If the sauna heater will not heat up                               | 6  |
| 3   | Instructions for the installer                                     |    |
| 3.1 | Preparing for sauna heater installation                            | 6  |
| 3.2 | Installation                                                       | 6  |
| 3.3 | Main connection                                                    | 7  |
| 3.4 | Electric heating toggle                                            | 7  |
| 3.5 | Locating the connecting box for connection cable in the sauna room | 8  |
| 3.6 | Sauna heater safety clearances                                     | 8  |
| 3.7 | Switch diagram                                                     | 10 |
| 3.8 | Installing the support for heating elements                        | 12 |
| 3.9 | Spare parts for the Rocher electric sauna heater                   | 13 |
|     | ROHS                                                               | 14 |

## Images and tables:

|         |                                             |    |
|---------|---------------------------------------------|----|
| Image 1 | Recommended sauna room ventilation          | 3  |
| Image 2 | Location for the connecting box             | 8  |
| Image 3 | Clearances in wall and corner installations | 9  |
| Image 4 | Clearances in central installation          | 9  |
| Image 5 | Switch diagram for the sauna heater         | 10 |
| Image 6 | Basic installation of a sauna heater        | 11 |
| Images  | Preparing for piling the stones             | 4  |
| Images  | Installing the support for heating elements | 12 |
| Table 1 | Connection cable and fuses                  | 8  |
| Table 2 | Safety clearances                           | 8  |
| Table 3 | Spare parts                                 | 13 |

## 1. Quick start guide for the sauna heater

### 1.1 Check the following before taking a sauna bath:

- The sauna room is suitable for taking a sauna bath.
- The door and the window are closed.
- The sauna heater is topped with stones that comply with the manufacturer's recommendations, the heating elements are covered with stones, and the stones are piled sparsely.

NOTE: Structural clay tiles are not allowed.

### 1.2 Operation of the sauna heater controls

Refer to the specific control panel operating instructions.

## 2. Information for users

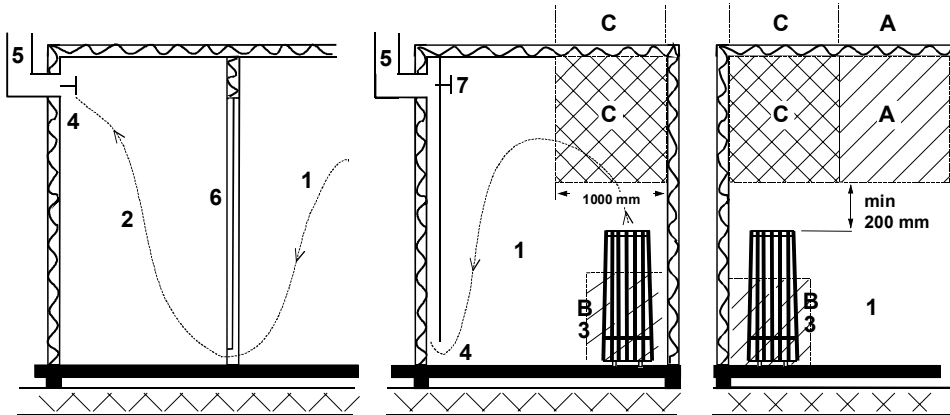
Persons with reduced physical and mental capacity, sensory handicap, or little experience and knowledge about how the device is operated (e.g. children), should only operate the device while supervised or according to instructions given by the persons in charge of their safety.

Make sure that children are not playing with the sauna heater.

### 2.1 Sauna room

The walls and ceiling of a sauna room should be thermally well insulated. All surfaces that store heat, such as tile and stone surfaces must be insulated. It is recommended to use wooden panel cladding inside the sauna room. If there are heat storing elements in the sauna room, such as decorative stone, glass etc., note that these elements may extend the pre-heating period even though the sauna room is otherwise well insulated. (see page 6, section 3.1 Preparing for sauna heater installation)

### 2.2 Recommended sauna room ventilation



- |                                                                                                              |                          |                            |
|--------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------|
| 1. Sauna room                                                                                                | 3. Electric sauna heater | 5. Exhaust flue or channel |
| 2. Washroom                                                                                                  | 4. Exhaust valve         | 6. Door to the sauna room  |
| 7. A ventilation valve can be installed here to be kept closed while the sauna is heated and during bathing. |                          |                            |

Inlet vent can be positioned in the A zone. Make sure the incoming fresh air will not interfere with (i.e. cool down) the sauna heater's thermostat near the ceiling.

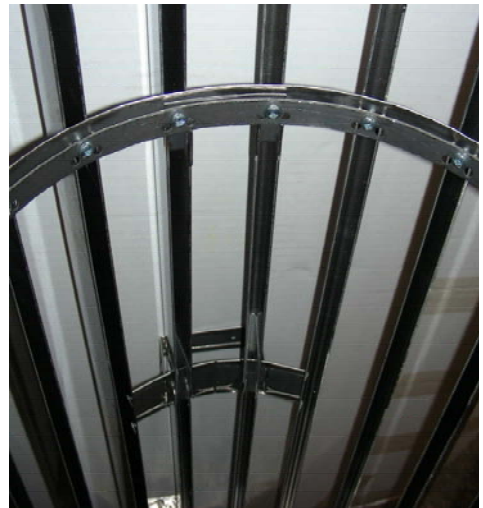
The B zone serves as the incoming air zone, if the sauna room isn't fitted with forced ventilation. In this case, the exhaust valve is installed min 1m higher than the inlet valve.

DO NOT INSTALL INLET VALVE WITHIN ZONE C, IF THE SAUNA HEATER'S CONTROL THERMOSTAT IS LOCATED AT THE SAME ZONE.

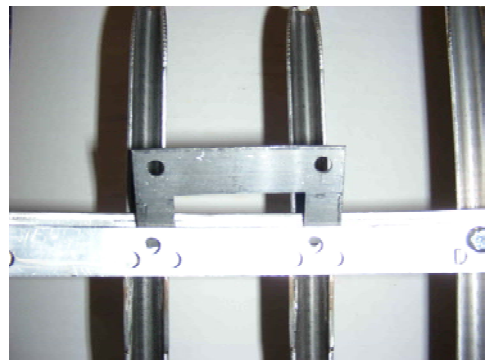
### 2.3 Preparing for piling the stones

Removing of the supporting bars to pile the stones

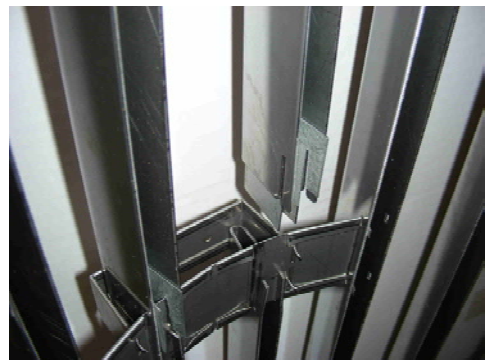
Unscrew the bars' mounting screws (2 pcs).



Lift the support bar's locking plate up from its normal position.



Lift off the support bars.



Pile stones up to the Helo marker.

Reinstall the support bars.

Install the support bars as above in the reversed order.

Pile the stones so that they cover the heating elements.

For specific instructions refer to section 2.4 Sauna heater stones.



## 2.4 Sauna heater stones

Quality stones meet the following requirements:

1. Sauna stones should withstand heat and heat variation caused by vaporisation of the water thrown on the stones.
2. Stones should be rinsed before use in order to avoid odour and dust.
3. Sauna stones should have an uneven surface to supply a larger surface for the water to evaporate from.
4. Sauna stones should be large enough (intended for large sauna heaters, approx. 80 - 120mm), to allow good ventilation between the stones. This extends the useful life of the heating elements.
5. Sauna stones should be piled sparsely in order to enhance ventilation between the stones. Do not bend the heating elements together or against the frame.
6. Rearrange the stones regularly (at least once a year) and replace small and broken stones with new, larger stones.
7. Stones should be piled so that they cover the heating elements. Do not, however, pile a large heap of stones on the heating elements. For sufficient amount of stones refer to **Table 2 on page 8**. Any small stones included in the stone delivery package should not be placed on the sauna heater, because they might fall through the heater's vertical beams.

The warranty does not cover defects resulting from poor ventilation caused by small and tightly packed stones.

Structural clay tiles are not allowed. They may cause damage to the sauna heater. Damages caused by using structural clay tiles will not be covered by the warranty.

## 2.5 Accessories for Rocher sauna heater

|                                   |                   |
|-----------------------------------|-------------------|
| Integration flange, soapstone     | EAN 6416976384299 |
| Integration flange, frosted glass | EAN 6416976384374 |
| Led Drive optical fibre light     | EAN 6416976384893 |

## 2.6 Heating the sauna

Before turning the sauna heater on, make sure the sauna room is suitable for taking a sauna bath. When heated for the first time, the sauna heater may emit some odour. If you detect any odour while the sauna heater warms up, disconnect the sauna heater briefly, and air the room. Then turn the sauna heater back on.

The sauna heater is turned on from the control panel that has controls for the heating temperature and time.

You should turn the sauna heater on roughly an hour before you plan to take a sauna bath, so that the stones have time to heat up properly and the air warms up evenly in the sauna room.

**Do not put any objects on the sauna heater. Do not dry clothes on the sauna heater or anywhere in its vicinity.**

## 2.7 If the sauna heater will not heat up

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

- The power is on;
- The fuses for the sauna heater are intact;
- Any error messages on the control panel; In case of an error message, please refer to the control panel operating instructions.

## 3. Instructions for the installer

THE PERSON INSTALLING THE SAUNA HEATER SHOULD LEAVE THESE INSTRUCTIONS IN THE PREMISES FOR THE FUTURE USER.

### 3.1 Preparing for sauna heater installation

Check the following before installing the sauna heater:

1. The ratio of the heater's input (kW) and the sauna room's volume (m<sup>3</sup>). Volume/input recommendations are presented in **Table 2 on page 8**. The minimum and maximum volumes must not be exceeded.
2. The sauna room ceiling must be min 1900 mm high.
3. Glass and stone surfaces will extend the pre-heating period. Each square meter of glass or stone ceiling or wall adds 1.5 – 2m<sup>3</sup> to the sauna room's volume in terms of needed heater input.
4. Check **Table 1 on page 8** for a suitable fuse size (A) and the correct diameter of the power supply cable (mm<sup>2</sup>) for the sauna heater in question.
5. Conform to the safety clearance around the sauna heater as specified in **Table 2 on page 8**. There should be enough room around the sauna heater for maintenance purposes, a doorway etc.
6. If the the heater is integrated in the sauna benches, the bench model must allow lifting of the lower bench and its frame without tools. The warranty will not cover dismantling and reassembly of sauna benches.

### 3.2 Installing the sauna heater

Follow the safety clearance specifications in **table 2 and images 3 and 4 on pages 8 and 9** when installing the sauna heater.

The sauna heater is a free-standing model. The base must be solid, because the sauna heater weighs about 120 kg.

The sauna heater is levelled by the adjustable legs.

The sauna heater is fixed on the floor from its legs by the provided metal fasteners (2 pcs). This will keep the safety clearances intact during use.

Walls or ceilings must not be clad light-weight cladding, such as incombustible protecting board, because they may cause a fire hazard.

A single sauna heater is allowed per one sauna room.

### 3.3 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. (See **Table 1 on page 8**) 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. For example, in a 9 kW sauna heater the diameter of a separate cable to the signal lamp and the centralized telecontrol device has to be at least 2.5 mm<sup>2</sup>.

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 connecting box is 500 mm from the floor, (see **Image 2 on page 8**) If the connecting box is located further than at 500 mm distance from the heater, the maximum height is 1000 mm from the floor.

The sauna heater's heating elements may absorb moisture from the air during storage etc. This may cause leakage current. The moisture will evaporate when the sauna heater is heated a few of times. Do not connect electric supply to the sauna heater via the fault current switch.

Adhere to the effective electrical safety regulation when installing the sauna heater.

### 3.4 Electric heating toggle

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

Sauna heater has a connection (marked 55) for controlling the electric heating toggle. Connector 55 and the heating elements are simultaneously live (230V).

Table 1

| Input<br>kW | Sauna heater's<br>connection cable<br>H07RN-F<br>60245 IEC 66<br>mm <sup>2</sup><br>400 - 415V 3N~ | Fuse<br>A | Sauna heater's<br>connection cable<br>H07RN-F/<br>60245 IEC 66<br>mm <sup>2</sup><br>230 V 3~ | Fuse<br>A | Sauna heater's<br>connection cable<br>H07RN-F/<br>60245 IEC 66<br>mm <sup>2</sup><br>230 - 240V 1N~ / 2~ | Fuse<br>A |
|-------------|----------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------|-----------|
| 6,8         | 5 x 1,5                                                                                            | 3 x 10    | 4 x 2,5                                                                                       | 3 x 16    | 3 x 6                                                                                                    | 1 x 35    |
| 9,0         | 5 x 2,5                                                                                            | 3 x 16    | 4 x 6                                                                                         | 3 x 25    | -----                                                                                                    | -----     |
| 10,5        | 5 x 2,5                                                                                            | 3 x 16    | 4 x 6                                                                                         | 3 x 35    | -----                                                                                                    | -----     |

### 3.5 Locating the connecting box for connection cable in the sauna room

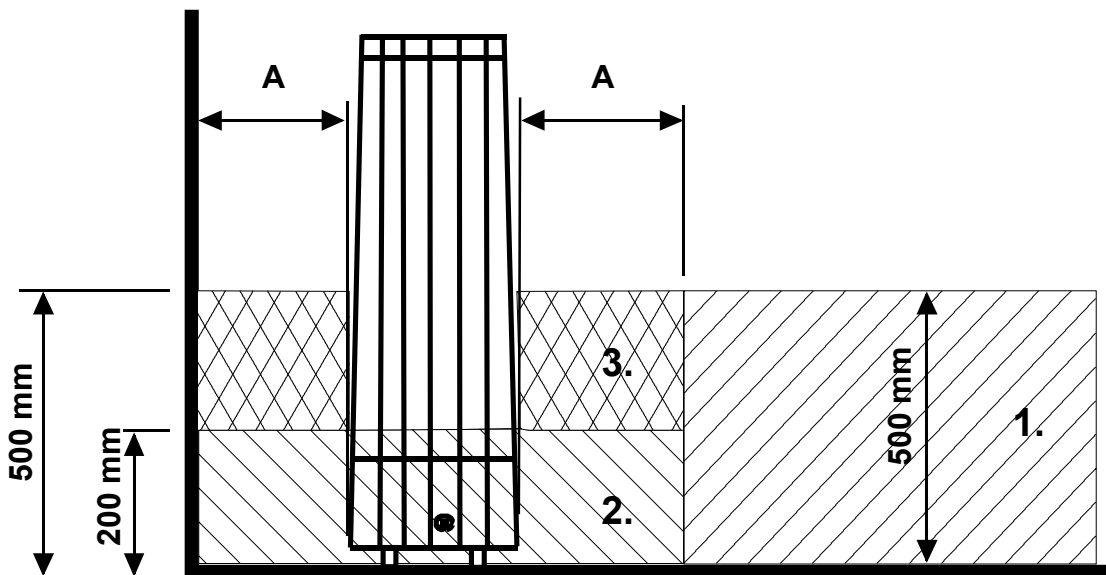


Image 2

A = Specified minimum clearance

1. Recommended location for the connecting box
2. Silumin box recommended in this area.
3. This area should be avoided. Always use a silumin box.

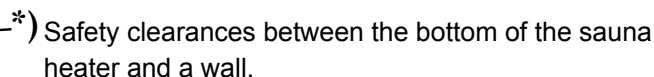
In other areas, use a heat-resisting box (T 125 °C) and heat-resisting cables (T 170 °C). The connecting box must be clear of obstacles. When installing the connecting box to zones 2 or 3, refer to the instructions and regulations of the local energy supplier.

### 3.6 Sauna heater safety clearances

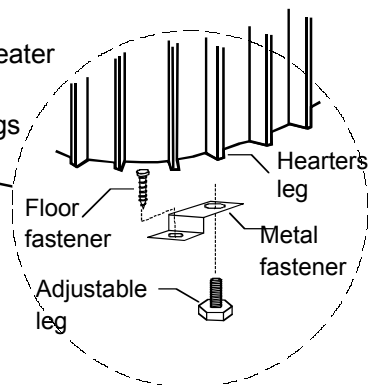
Table 2

| Input<br>kW | Sauna room               |                          |                  | Safety clearances<br>min.  |                            |                         | adequate<br>amount of<br>stones<br><br>ca.kg |
|-------------|--------------------------|--------------------------|------------------|----------------------------|----------------------------|-------------------------|----------------------------------------------|
|             | minimi<br>m <sup>3</sup> | maximi<br>m <sup>3</sup> | Height min<br>mm | on the<br>A<br>sides<br>mm | at the<br>D<br>front<br>mm | to the<br>ceiling<br>mm |                                              |
| 6,8         | 5                        | 9                        | 1900             | 60                         | 60                         | 770                     | 100                                          |
| 9,0         | 8                        | 13                       | 1900             | 60                         | 60                         | 770                     | 100                                          |
| 10,5        | 9                        | 15                       | 1900             | 60                         | 60                         | 770                     | 100                                          |

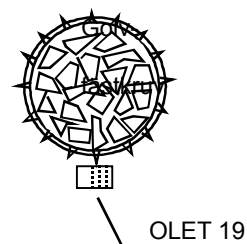
## Corner and wall installation



Fixing the sauna heater  
on the floor. NOTE  
fixing of two (2) legs



### Middle installation:



**NOTE!** If the sauna heater is installed further than 60mm off a wall or a corner, the installation method is always middle installation. The thermostat must be installed in the ceiling, as per instructions.

### 3.7 Switch diagram

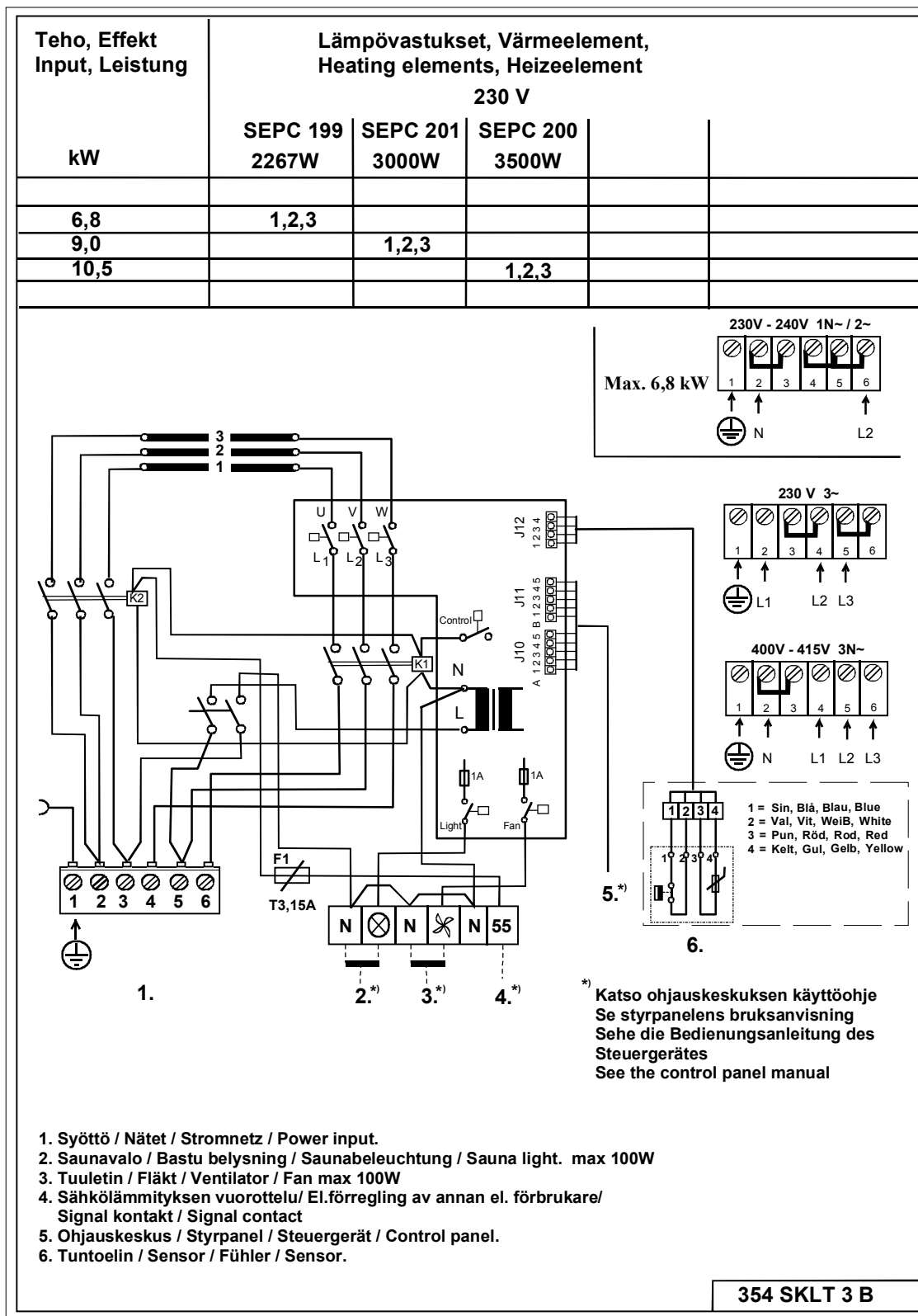
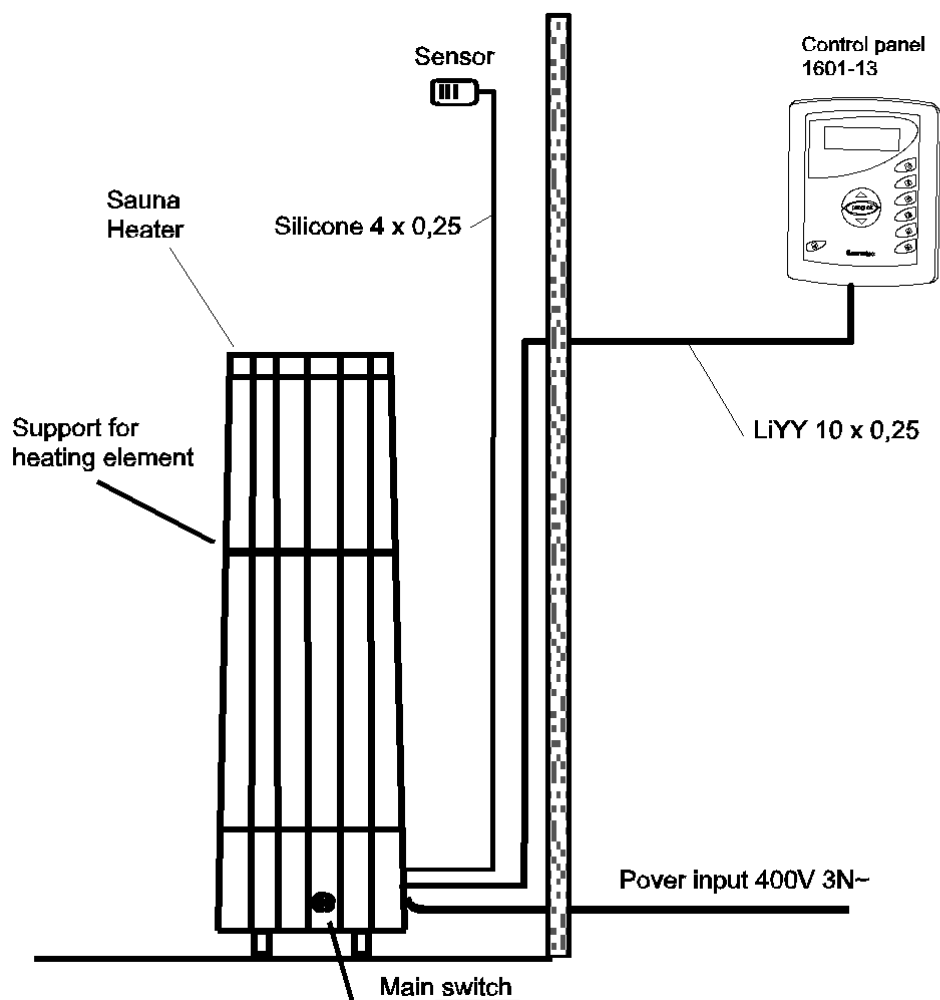
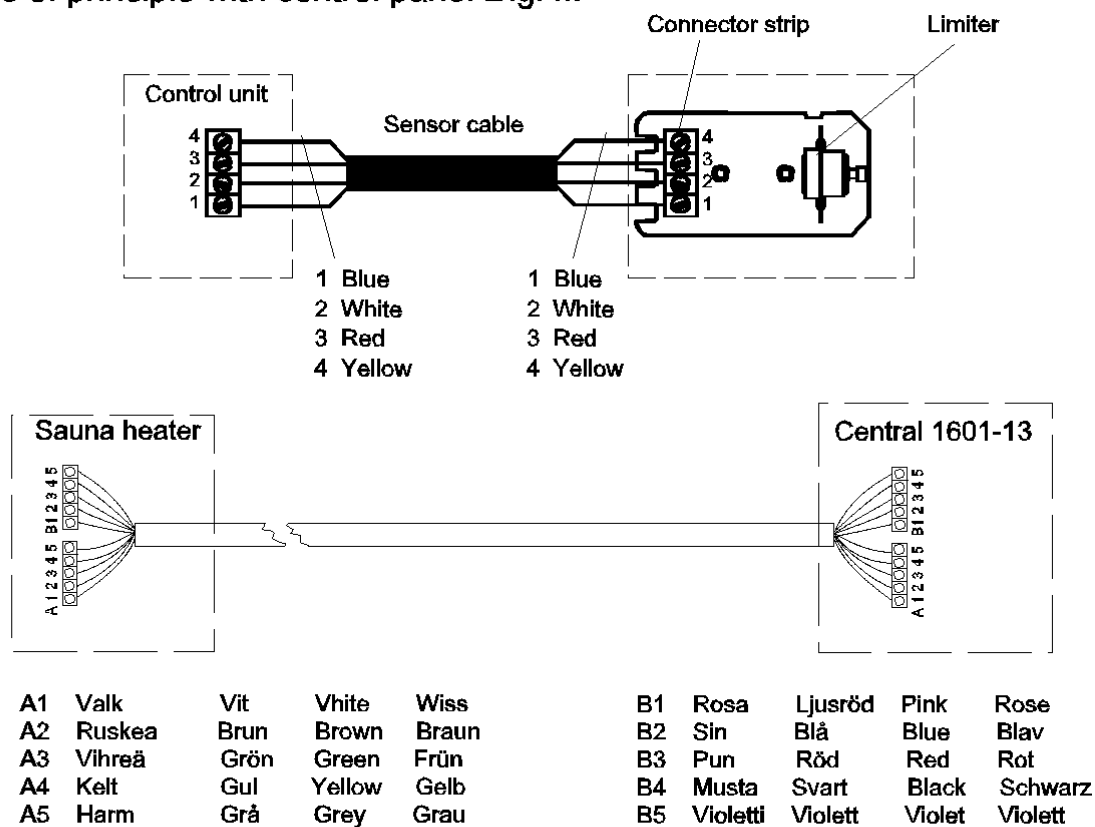


Image. 5

Image of principle with control panel Digi II.

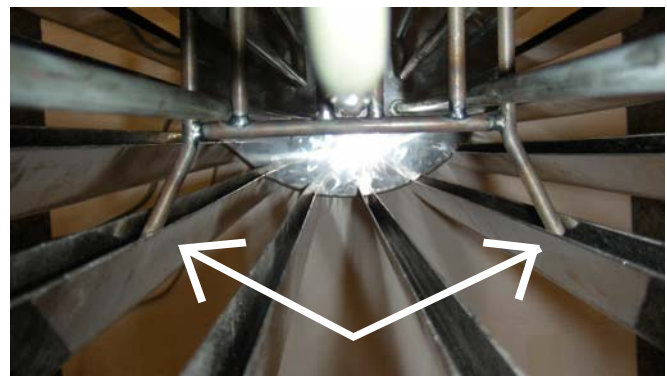


3.8 Installing the support for heating elements: Pile in stones up to halfway of the provided space. Position the support so that the heating elements stay between the openings. Tilt the support and press the pivots at each end of the support to the grooves in the inside of the heater's vertical beams, one end at a time. The support for heating elements should stay levelled.

Position the support between the heating elements.

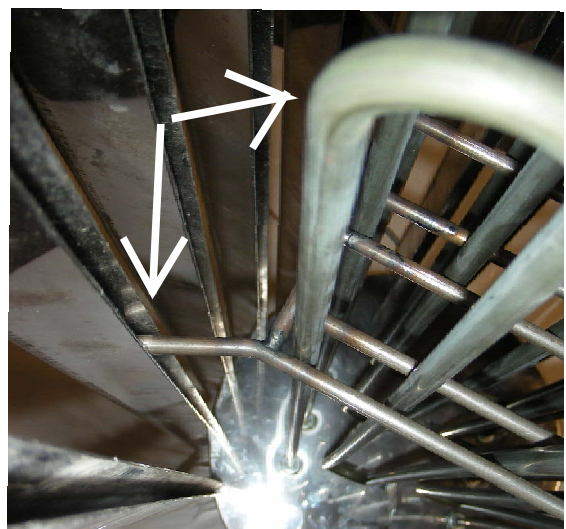


Push the pivots at one end of the support to the grooves in the vertical beams.



Press the pivots at the other end of the support to the grooves in the heater's vertical beams.

Subsequently, pile in stones up to the upper edge so that they cover the heating elements.



### 3.9 Spare parts to ROCHER sauna heater:

Table 3

|    | Product number                                                                                      | Product title | Rocher 700 | Rocher 900 | Rocher 1050 |
|----|-----------------------------------------------------------------------------------------------------|---------------|------------|------------|-------------|
| 1  | Circuit board OLEA 57                                                                               | 5916229       | 1          | 1          | 1           |
| 2  | Thermostat OLET 19                                                                                  | 6214032       | 1          | 1          | 1           |
| 3  | Mains connector NLWD 1-1                                                                            | 7812550       | 1          | 1          | 1           |
| 4  | Relay, Finder                                                                                       | 5716203       | 2          | 2          | 2           |
| 5  | Switch                                                                                              | 6119649       | 1          | 1          | 1           |
| 6  | Rubber cover for a switch                                                                           | 7306611       | 1          | 1          | 1           |
| 7  | Fuse T3,15A                                                                                         | 7801710       | 1          | 1          | 1           |
| 8  | Heating element SEPC 199 2267W / 230V                                                               | 5207770       | 3          |            |             |
| 9  | Heating element SEPC 201 3000W / 230V                                                               | 5207772       |            | 3          |             |
| 10 | Heating element SEPC 200 3500W / 230V                                                               | 5207771       |            |            | 3           |
| 11 | Circuit board OLEA 83<br>(Serial interface card<br>for sauna heaters with<br>Midi<br>control panel) | 6216410       | 1          | 1          | 1           |

## ROHS

### Instrucciones de protección medioambiental

Este producto no debe ser tratado como un residuo doméstico normal al final de su vida útil, sino que debe depositarse en el punto de recogida adecuado para el reciclaje de equipos eléctricos y electrónicos.

La presencia de este símbolo en el producto, en el manual de instrucciones o en el paquete indica lo anteriormente mencionado.



Los materiales pueden reciclarse según las marcas que figuren en ellos. Mediante la reutilización o aprovechamiento de estos materiales, o la reutilización de equipos antiguos, se contribuye de manera importante a la protección del medio ambiente. Nota: este producto debe entregarse en el centro de reciclaje sin las piedras de sauna ni la cubierta de esteatita.

Para obtener información acerca del punto de reciclaje, póngase en contacto con la administración municipal.

### 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.

### Instructies ter bescherming van het milieu

Dit product mag aan het einde van de levensduur niet worden weggegooid via het normale huishoudafval. In plaats daarvan moet het worden afgegeven bij een inzamelplaats voor het recyclen van elektrische en elektronische apparaten.

Dit is waar het symbool op het product, de gebruiksaanwijzing of de verpakking naar verwijst.



Het materiaal kan worden gerecycled op basis van de aangebrachte markeringen. Door hergebruik van materialen of oude apparaten levert u een belangrijke bijdrage aan de bescherming van ons milieu. Lever het afgedankte product af bij de inzamelplaats zonder saunastenen of het deksel van speksteen.

Voor vragen over de inzamelplaats kunt u contact opnemen met de gemeente.

### Instructions pour la protection de l'environnement

Ce produit ne doit pas être mêlé aux ordures ménagères en fin de vie. Il doit être déposé dans un centre de collecte pour le recyclage des appareils électriques et électroniques.

Le symbole apposé sur le produit, la notice d'utilisation ou l'emballage l'indique.



Les matières peuvent être recyclées conformément à leur marquage. En réutilisant, recyclant les matières ou en utilisant différemment un vieil équipement, vous contribuez considérablement à la protection de l'environnement. Attention : ce produit doit être déposé au centre de recyclage sans pierres et sans parement en stéatite.

Veillez contacter votre Municipalité pour connaître le centre de recyclage.