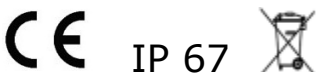


Infrared sauna heater

Installation and Operation Instructions

Made in Finland



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Included in delivery

3

(Subject to change)

- Infrared heater
- Mounting screws x4, and screw plugs x4
- Installation, Operation and Service instructions

Technical specifications:

Power	900W
Dimensions	H910xW310xD31mm
Heat	Max 150°C
Glass color	Black or gray
Frame	Black alder
Cable	Heat-resistant silicone, length 3m, 2x1,5 mm ² 
Protection class	IP 67
Certifications	 
Designations	CE
Rated voltage	230V – 240V N1 50Hz
Wavelength	~ 6,8µm to 7,3µm



Read the installation and operating instructions completely before starting any installation works and save the instructions for later use.

Note before installation

Control of infrared sauna heater

Duetto infrared sauna heater can be used in the same steam room with normal sauna stove. The stove installation and operating instructions must be observed. Separate control unit is recommended for temperature control, which must be installed and operated according to the separate installation, operating and maintenance instructions of the control unit.

Alternatively, the control unit may be replaced with time switch. The time switch must be a two poles switch that completely de-energized the heater.

General safety guidelines

- Persons who are physically and mentally disabled or with sensory disabilities (including children), or persons who lack experience and/or knowledge, should not use this device unless they are accompanied with person responsible for the safety or they are not guided for use of the appliance. Individual health constraints related to the use of infrared sauna heater must be determined with a doctor. Do not use the infrared sauna heater under the influence of alcohol or sedative drugs. It is recommended that the sauna heater is not used during 24 hours after sunbathing or exposure to sunlight. If the use of infrared heater causes skin redness/color change, which does not disappear within one day, then the infrared sauna heater must not be used again until the skin color change is medically proved as harmless.
- Children should be supervised and ensured that they do not play with the appliance.
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Note: The appliance must not be installed behind closed wooden paneling.

- Electrical installation must be performed by a qualified electrician.
- The provisions of the electricity supplier (EVU), as well as the relevant VDE regulations (DIN VDE 0100) must be complied with.
-



DO NOT COVER THE INFRA SAUNA HEATER!

Covering causes a risk of fire.

•



Caution, danger to life:

- The appliance can be controlled only by special infrared sauna control device or by time switch.
- For any installation and repair works, the appliance must be disconnect from the mains network, ie, the fuses or the main switch must be turned off.
- The heater manufacturer safety and installation instructions must be followed.
- The regulations and guidelines of the manufacturer of sauna room must be also taken into account.
-



Note:

Dear Customer,

In compliance with the current regulations, electrical connections of the sauna control unit can be made only by qualified electrician.

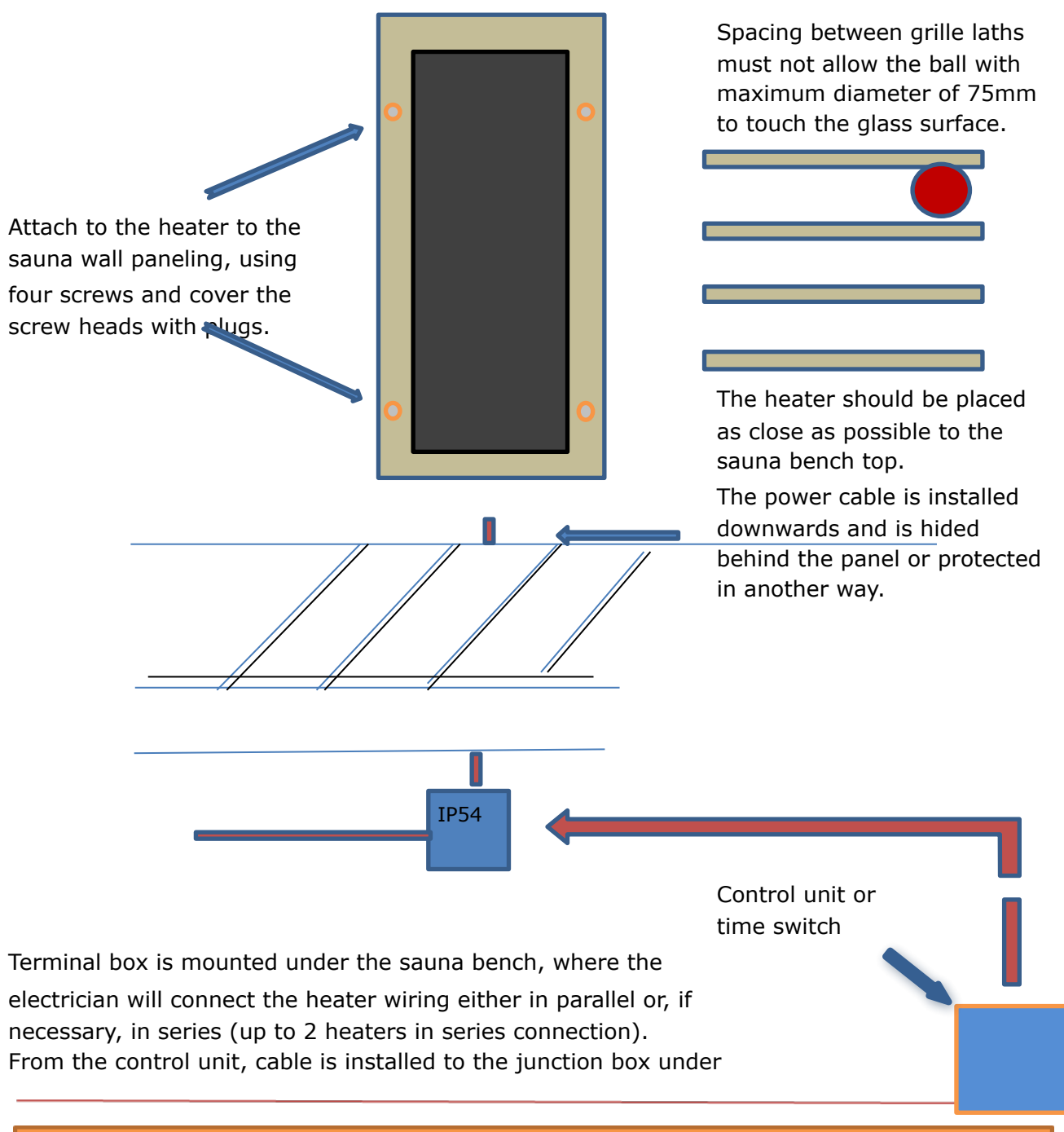
We want to emphasize that the copy of invoice of the electrical installation company which carried out the work must be accompanied with any warranty claims.

Installation instructions:

1. Check the product for any transport damages.
2. Mount the infrared sauna heater according to the instructions, taking into account the installation of screw plugs as well as enclosure of silicon cable visible parts.
3. Perform electrical installation. Electrical installation must be performed only by a qualified electrician, in compliance with the current electrical regulations.
4. Make sure that the heating element is operating normally and safely.
5. Attach the grille in correct place.

Duetto® infrared sauna heater

INSTALLATION



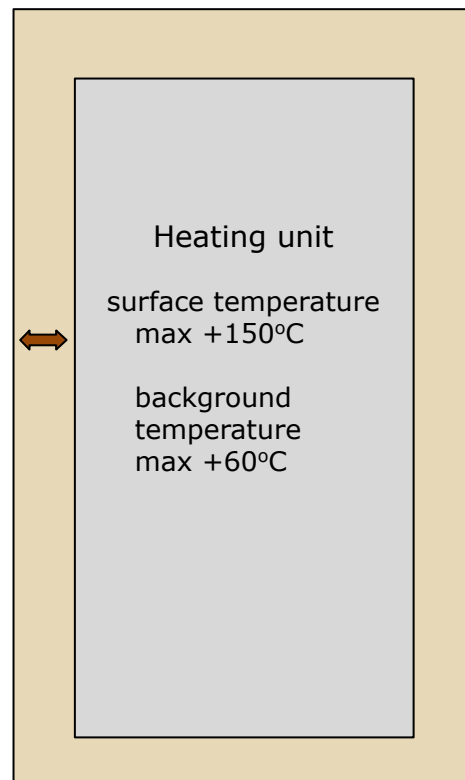
the sauna bench. When connecting the control unit, follow the electrical installation instructions. In the sauna with standard stove, install the temperature sensor about 20 cm downwards on the sauna wall, close to the heater. Otherwise install the temperature sensor on the ceiling of infrared sauna room, about 20 cm from the wall where the heater is installed.

Installation distances

- The heater can be attached directly on the combustible material (back and sides)
- The safety distance to flammable material from the front of the heater is 5mm
- Air flow through the heating elements front must not be obstructed

Heating unit surface area 20 mm
on each edge

Edge temperature max 80°C



Care

Duetto infrared sauna heater does not need any other service in addition to cleaning. Cleaning can be carried out, if necessary, using a cleaning cloth and a mild detergent.



Note:

During the cleaning, the device will be disconnected.

Number of Duetto® infra sauna heaters and use of them

Infrared rays generated in the Duetto® infrared sauna heaters produce a good feeling. When the infrared sauna heater is placed close to the large body muscles, a maximum benefits from the heating power can be achieved.

One heater per person needs about 50 cm width of sauna bench, as well as one set of heaters on bench sides. The heaters are placed on the wall behind the back of bather/bathers and on both sides of the bench as well as to legroom. The legroom heater is installed in parallel to the bench, about 10 cm from the front edge of the bench, below the seat. In front of the infrared sauna heaters, the safety grille is installed in which one can lean on during bathing. Please note the sauna stove manufacturer's safety and installation instructions when installing the heaters.

Pleasant bathing temperature in the infrared sauna is below 60°C. Each sauna bather, however, can find a best bathing temperature individually.

Good sauna bathing time in infrared sauna is 30 minutes. The maximum allowed continuous bathing time is one hour.

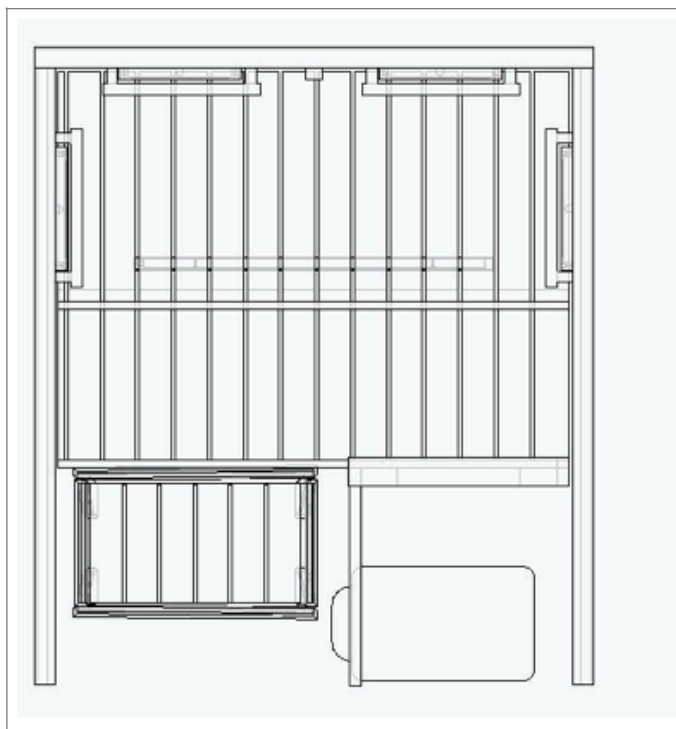
In the infrared sauna, a lot of fluid dissipates from your body. Do not forget to drink plenty of water!

Need for heaters

When selecting the number of sauna heaters, take into account the sauna room dimensions. The necessary heating power is about 1kW/m³. The glass and tile surfaces increase the power needed by 1kW/m².

Installation example

Number of heaters, if only infrared heaters are used in the sauna with stove



If the sauna room size is about 5m³, and you want to heat your sauna only by *Duetto* infrared sauna heaters, five heaters should be installed.

The heaters are placed behind and on sides of the sauna bench, and in legroom. The heaters are covered with leaning grilles.

Number of heaters, when using the sauna stove and infrared heaters at the same time



If the sauna stove and infrared heaters are use at the same time, then for example two bathers need three infrared heaters. One heater, protected with leaning grille, behind the back of both bathers, and one heater in legroom.

Heater positioning

The heaters are placed on the wall behind the back of bather/bathers and on both sides of the bench as well as to legroom. The legroom heater is installed in parallel to the bench, about 10 cm from the front edge of the bench, below the seat.

In front of the infrared sauna heaters, the safety grille is installed in which one can lean on during bathing.

Combining infrared heater with a sauna stove

For heating the stove sauna with infrared sauna heaters, the number of heaters is calculated according to the instructions. Number of heaters is determined by the cubic capacity of the sauna room.

If the sauna room is heated with stove, one infrared heater is needed for each person as a minimum.

To maximize the heating effect, heaters can be installed in legroom, and where possible, at the benches sides. Pre-heat the sauna using the stove to about 45°C. Switch the infrared sauna heaters on and enjoy the pleasant heat of the heaters.

Combined use of heater and sauna stove

The heaters are placed on the wall behind the back of bather/bathers and on both sides of the bench as well as to legroom. The legroom heater is installed in parallel to the bench, about 10cm from the front edge of the bench, below the seat.

In front of the infrared sauna heaters, the safety grille is installed in which one can lean on during bathing.

Please note the stove safe distances when installing the heaters.

Pleasant bathing temperature in the infrared sauna is below 70°C. Each sauna bather, however, can find a best bathing temperature individually. In the combined sauna, water can be thrown on the stove and the warmth of infrared heaters can be enjoy at the same time.

In the infrared sauna, a lot of fluid dissipates from your body. Do not forget to drink plenty of water!

Temperature adjustment

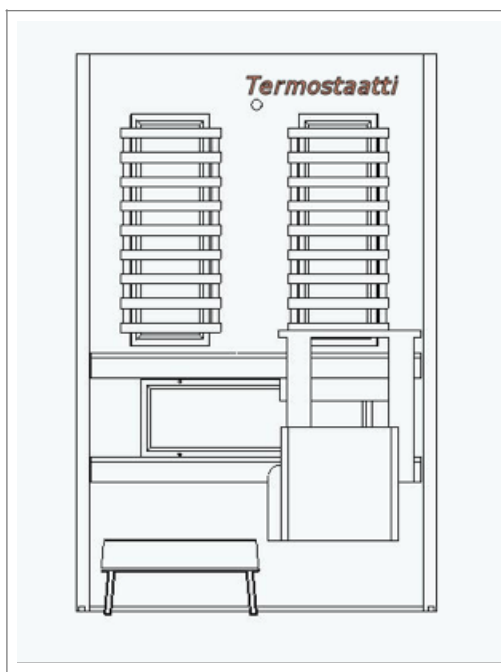
The infrared sauna temperature is controlled using the control unit suitable for infrared heaters or by time switch. Follow the control unit or time switch manufacturer's installation and operating instructions.

The time switch must be a two poles switch that completely de-energized the heater.

Positioning of heat sensors

When using the control unit for controlling the temperature in the infrared sauna, follow the control unit manufacturer's installation and operating instructions.

When using the time switch for setting the heaters ON period, no temperature sensor is needed.



If the stove is used at the same time with the heaters, the infrared heaters control unit thermostat is mounted on the wall where the heaters are installed, about 20 cm from the ceiling.

If the *Duetto* infrared sauna heaters are controlled by time switch, the heaters may be switched ON continuously for up to two hours.

Electrical installation must be performed only by a qualified electrician, in compliance with the current electrical regulations.

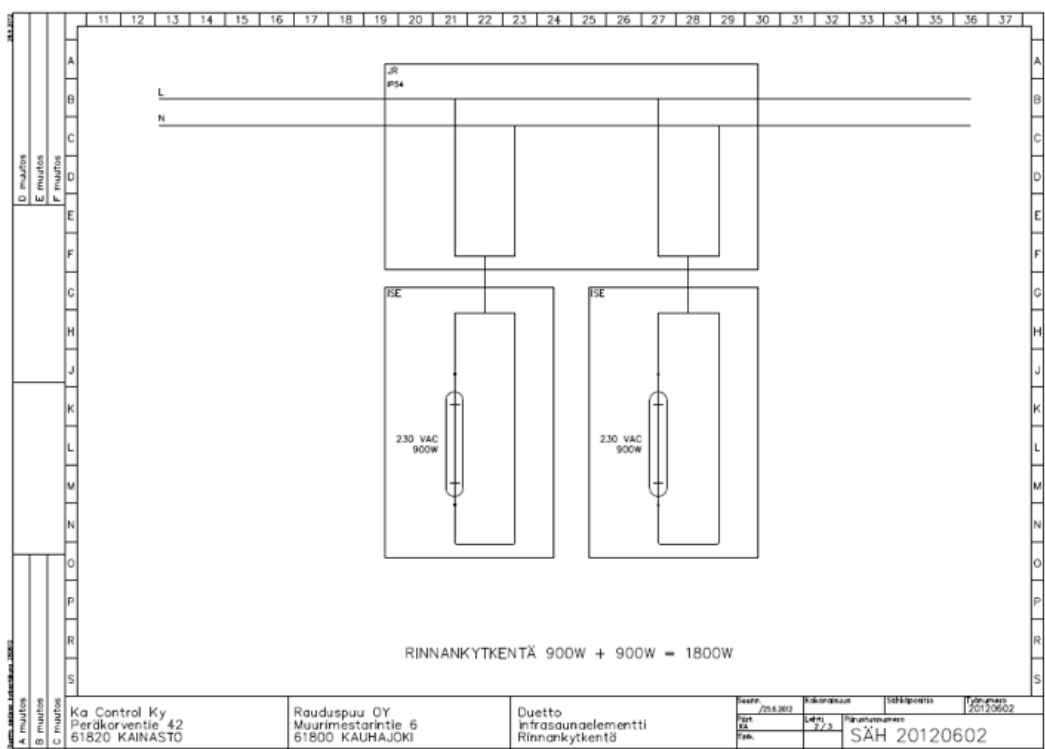
Ventilation in infrared sauna

Ensure the adequate ventilation when using infrared sauna heaters, so that there is enough fresh air in the sauna room. When the heaters remain hot throughout the duration of bathing, they give good infrared heat for bathers.

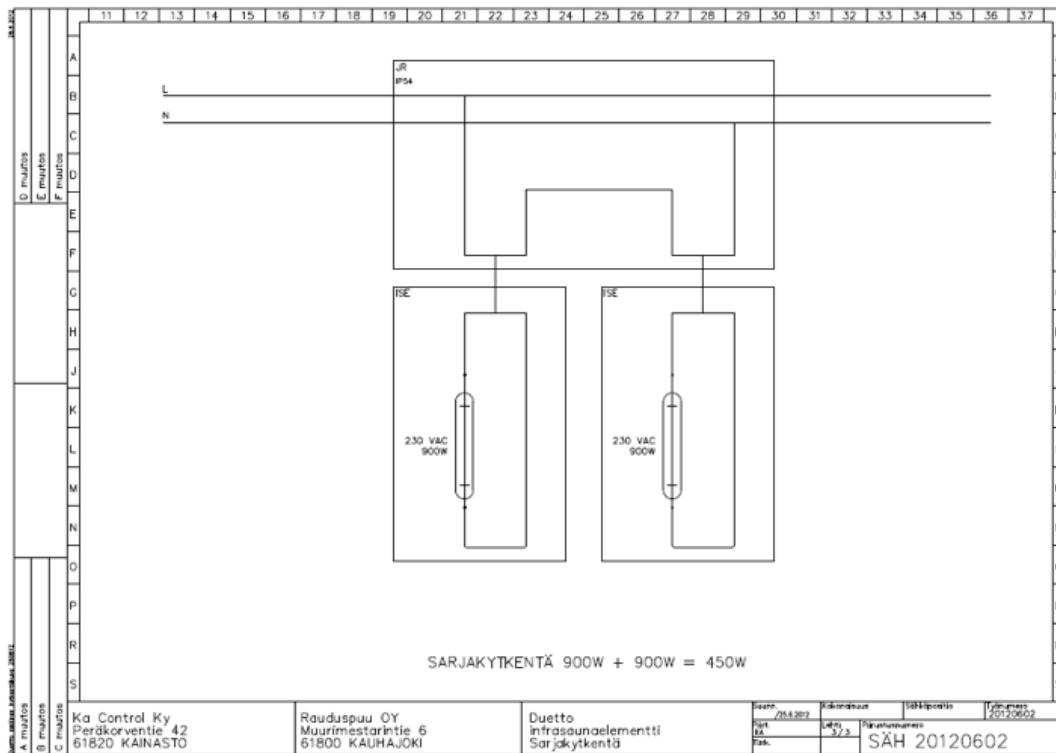
Electrical connection of the heater

The heater power can be changed by electric wiring. If two similar-powered heaters are connected in series, the required fuse size is reduced.

Parallel installation



Series installation



Warranty

The warranty is in accordance with provisions of the current regulations.

Manufacturer warranty

- Warranty becomes effective at the date of the purchase receipt, and is valid for 1 year in commercial use, or for 2 years in private use.
- Warranty claims can be accepted only if proof of purchase of the appliance is presented.
- In case of any modifications made for appliance or if the manufacturer's instructions are not followed, without the manufacturer's express approval, any of the warranty claims are not valid.
- Furthermore, the warranty does not apply to the defects caused by any unauthorized repair or alterations, or improper use.
- When placing the warranty claim, please indicate the type, serial number, together with the evidencing error description.
- The warranty covers refunding of the defective appliance with the exception of normal wear and tear, or characteristics resulting from the nature of the wooden parts.

For warranty claims, contact to the dealer. The manufacturing plant does not process the warranty claims.

For complaints, the appliance must be sent in its original or equivalent package (NOTE: the risk of transport damage) to the manufacturing plant.

When returning the unit, always attach the completed warranty certificate.

We are not responsible for any potential shipping and return shipping costs.

Date of sale:

Dealer's stamp and signature: