

Infratec Classic

control unit for infrared cabins



GB Assembly and operating instruction

Made in Germany



English

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Technical data

Voltage:	230 V N AC 50 Hz
Fusing:	1 x 16 A
Power intake :	max. 3500 W
Control range:	30 - 60° C
Control characteristics:	Digital, two-point control
Sensor system:	KTY sensor
Heating time limitation:	1 - 99 Minutes
Ambient temperature:	-10 bis 40° C
Installation dimensions HxWxD:	139 x 194 x 49 mm

The delivery package includes the following components:

- accessory bag, including: 4 tension-plate screws 4 x 20 mm
- Temperature sensor board with KTY sensor, sensor housing, two 3x25 mm fastening screws and a 2,0 m sensor cable.

Dear Customer,

With this IR controller you have purchased a high quality electronic appliance developed and produced in conformance with the latest standards and quality guidelines.

Read these instructions carefully to familiarize yourself quickly and simply with the unit.

General Information

The IR controller is designed for a voltage of 230 V 50 Hz as a standard feature and requires a separate 16 A fuse.

Assembly and connection of the infrared equipment and other electric facilities must only be carried out by a qualified specialist; in this regard, VDE 0100 Part 703/2006-2 is to be complied.

Please read the following installation and operating instructions thoroughly to ensure malfunction-free operation of your IR controller.

General Safety Precautions

- Ensure that the electrical installation is carried out only by an authorized electrician.
- Observe the regulations of our electrical power supply company as well as all applicable VDE regulations (DIN VDE 0100) or the applicable national or local norms and regulations.
-  **Caution! Lethal Hazard:** Never attempt to repair or install the unit yourself.

Ensure that the housing cover is removed only by a trained employee.

- Use the unit only for the intended purpose for control of IR emitters.
- When installing or working on the system ensure that all poles are separated from the line power, i.e. switch off circuit breakers or main switch.
- Observe safety and installation instructions of the manufacturer.
- This device has not been designed for being used by persons (including children) that are physically or mentally handicapped or have sensory disabilities. Moreover, it is not allowed to use this device without sufficient experience and/or knowledge, unless these persons will be supervised by persons responsible for their security or in case they have been instructed how to use this device.
- Children are to be supervised in order to make sure that they do not play with this device.

Installation



Attention! The control unit must not be installed inside the IR cabin.

The control unit (item no 94.4334) is supplied with pre-mounted electric cables.

The control unit includes the following cables:

- Power line to grounding type plug
- Connector cable for IR radiator(s)
- Connector cable for cabin lighting
- Sensor line (red)
- Temperature limiter line (white)
- The connecting cable for IR radiators is equipped with a plug adaptor with 5 outputs. By using this adaptor you can directly connect up to 5 IR radiators or add further radiators by using another plug adaptor.

The control panel (item no. 94.4388) is supplied without pre-mounted electric cables

The delivery includes:

- Sensor cable (red)
- Temperature limitation sensor cable (white)

Not included are (to be supplied, installed and connected at site):

- Power supply cable (mains)
- Connection cable for IR radiators
- Connection cable for light

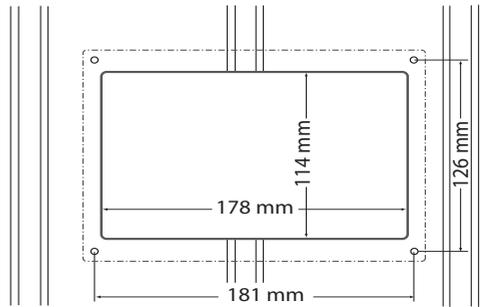
All cables must be heat-resistant to at least 90°C

If you need to connect more than 1 IR radiator, which is most commonly the case, please make sure to use one or several plug adaptors (item no. 944960). The plug adaptor has 5 outputs which allows to connect up to 5 IR radiators directly or add further radiators by using several adaptors.

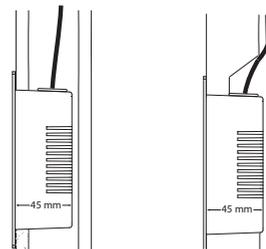
NOTICE: make sure that the total number of connected radiators does not exceed the

maximum allowed load. The maximum load on the output may not exceed 3.5 kW.

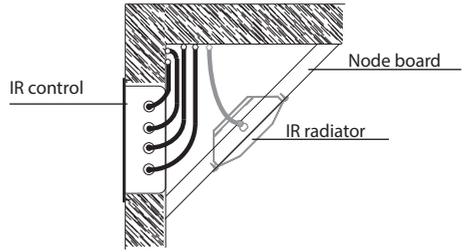
- The cable for cabin lighting shall be connected to the lighting in the cabin (max. 100 W).
- For control unit installation make a cut-out in the cabin wall as per drawing given below.
- The wall aperture on the outside of the cabin shall be ideally made at eye level next to the door. The opening must be 178 mm wide and 114 mm high.
- The installation depth is 45 mm.



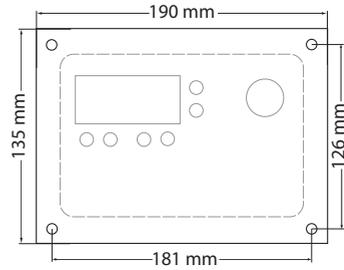
- Feed the connecting cables inside cabin wall through towards the ceiling. See below illustration.
- If the cables cannot be laid inside the cabin wall they must be placed inside the cabin.
- Make sure to observe installation instruction for IR radiators. Connecting cables must be heat-resistant to at least 90°C.
- On the outer side of the cabin ceiling or inside cabin ceiling you may then connect the cable lines to the separate IR radiators.



- Next, we suggest that the cable be laid behind a node board. If a IR radiator has also been installed in this node board, it must be located below the control unit.



- After fitting the cables insert the control unit into the prepared rectangular opening.
- Attach the housing to the cabin wall by using the 4 included fastening screws



Electrical connections



Attention!

The electrical installation may be only carried out by a registered electrical contractor, while adhering to the EU, national and local directives for electric installations.

Connection of IR radiators

Mount the IR radiator according to the mounting instructions supplied with IR radiator.

EOS IR radiators include connecting cable with the Wieland type plug (female).

The output cable line of the control unit includes the female plug and corresponding **plug adaptor** to connect up to 5 lines to IR radiators. To connect the line:

- Unscrew the two screws of the clamped covering for connecting the cable with the plug adaptor. Insert the plug into the free socket of the plug adaptor and retighten the two screws.
- The covering secures the plug connection and prevents the accidental disconnection of the joint.

See illustration on the right for details of connecting the cable line to the plug adaptor.



Attention! Because of the higher starting current by certain IR radiator types the unit has to be fused by a 16A circuit breaker with K characteristic (slow reacting fuse).



screws

clamped covering

plug adaptor

! The Infratec Classic control units with pre-installed cables (item no. 94.4388) shall be connected only with the cable resistant to at least 90°C according to the given below connection diagram.

- !** Only IR radiators as per DIN 60335 or IR heating foils with integrated overheat-protection (140°C) may be connected.
- Follow the safety and installation information provided by the IR radiant heater manufacturer.

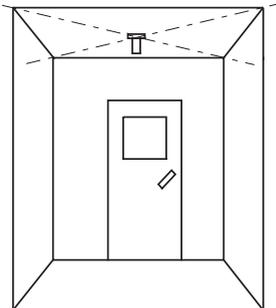
Installation of the lighting

- The connection cable is to be fed through the hole drilled beforehand, and is to be connected to the cabin lighting.
- The cabin lighting must always be mounted as far as possible from the positional spot of the infrared emitter, and may not be placed within the direct heat radiation angle.



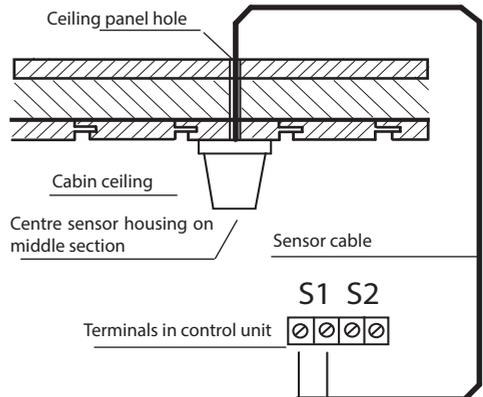
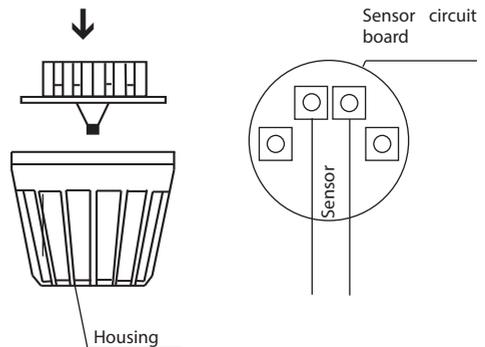
Installation of the temperature sensor

- The temperature sensor shall be mounted in the centre of the cabin ceiling.
- Drill a hole to lead the cable through the ceiling

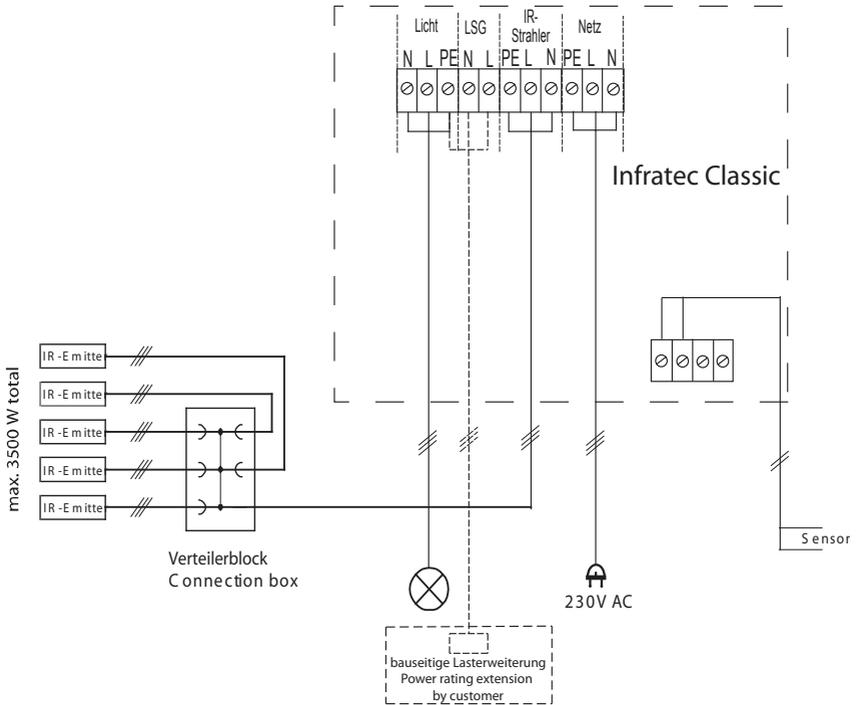


ing, preferably through the middle of one of the wooden boards.

- Guide the sensor cable through the drilled hole.
- Connect the sensor cable to the sensor board terminals as shown below.
- Attach the sensor board to the ceiling with two included screws and fit the sensor housing (cap) to the board. Make sure it sits tightly.
- Connect the sensor cable to the control unit terminals as shown on the connection diagram. See illustration below for details.



Connection diagram



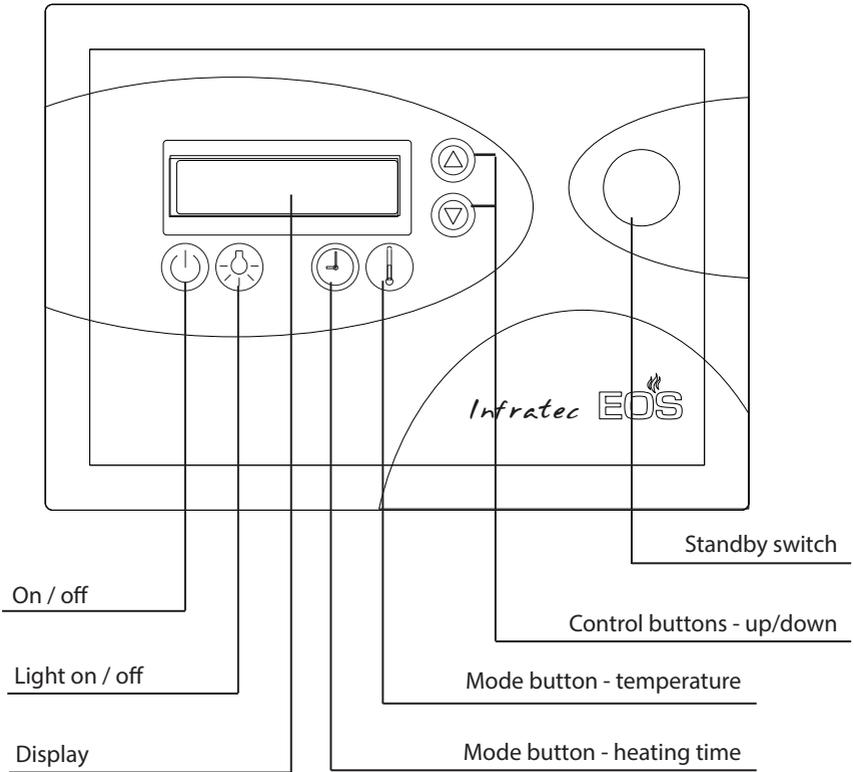
Attention!

Dear customer,

according to the valid regulations, the electrical connection of the heating equipment and the control box has to be carried out through the appropriately qualified specialist (electrician).

Please bear in mind that in case of a warranty claim, you are kindly requested to present a proof that the installation has been carried out by an authorized person (e.g. invoice copy from the electric shop or dealer).

Controls



Setting the display language

The unit comes preset with German as the display language. To change the display language to English, first switch off the unit using the Standby switch. Then hold down the **heating time** and **temperature mode** buttons while switching the unit back on with the Standby switch. The display will now be in English.

To switch back to German display mode, follow the corresponding steps.

Starting the unit

Activate the Standby switch.

The unit displays a brief greeting and

A rectangular display box with a black border containing the word "Hello" in a large, bold, black sans-serif font.

enters Standby mode. The display displays the current temperature in the cabin.

A rectangular display box with a black border containing the word "ready" on the left and "T: 28°C" on the right, both in a large, bold, black sans-serif font.

Cabin lighting

To switch the cabin lighting on or off, press the light  button.

Switching on the IR radiator

To switch on the IR radiator, press the -button. The display indicates the current cabin temperature (T) and the remaining heating time (t) in MM:SS.

A rectangular display box with a black border containing "T: 35°C" on the left and "t:45:11" on the right, both in a large, bold, black sans-serif font.

Switching off the IR radiator

When the heating period ends, the unit automatically switches off the IR radiator and enters Standby mode.

To finish the IR bath sooner, activate the  button. The IR radiators are switched off and the unit enters Standby mode.

Setting the heating time

You can preset the heating time between 1-99 minutes with the control unit.

First, switch the unit to Standby mode.

Next, select the -button to switch to control mode.

Now set the desired heating time using the  and  buttons.

Finally, press the -button again. The new setting is saved and the unit returns to Standby mode.

set time: 25 m

set time: 60 m

Setting the cabin temperature

Using the control unit you can preset the cabin temperature between 30° to 70°C.

First, select the -button to switch to control mode.

Now set the desired temperature using the  and  buttons.

set temp: 30°C

set temp: 45°C

Finally, press the -button again.

Please notice that the control unit will switch the IR radiators on and off as per air temperature as measured by the temperature sensor.

The temperature regulation is therefore based on the pre-set temperature and sensor position in the cabin.

Depending on the individual cabin situation the effective temperature inside the IR cabin may vary. This may influence the switching of the IR radiators.

Error indicators

If the sensor is defective, the message shown opposite appears in the display. Have the unit examined by a trained technician.

Reference value = approx. 2 k Ω at 20° C

Temperature sensor fault / circuit broken

sensor error

Temperature sensor short circuit

sensor short error

Service Address:

EOS Saunatechnik GmbH
Schneiderstriesch 1

35759 Driedorf, Germany

Tel: +49 (0)2775 82-514

Fax: +49 (0)2775 82-431

servicecenter@eos-sauna.de

www.eos-sauna.de

Please keep this address in a safe place together with the installation guide.

To help us answer your questions quickly and competently please provide the information printed on the type shield including the model, item no. and serial no., in all inquiries.

Equipment commissioning date:

Stamp and signature of the authorized electrician:

General Terms and Conditions of Service

I. Scope

Unless otherwise agreed in writing in a specific case, these terms and conditions of service shall apply to service operations, including examining and repairing complaints. All our existing or future legal relationships shall be governed solely by the following terms and conditions of service. Our recognition of any conflicting terms and conditions of the Ordering Party shall be conditional upon our having given our express written consent to their applicability. We hereby expressly object to any terms and conditions of the Ordering Party contained in its General Terms and Conditions of Business or order confirmation. If order confirmations or deliveries are accepted without reservation, this shall not be deemed to constitute recognition of such terms and conditions. Any ancillary agreements or amendments must be confirmed in writing.

II. Prices and Payment Terms

The Ordering Party shall bear the following costs in connection with the service operation:

- Disassembly/assembly and electrical (de-) installation
- Transportation, postage and packaging
- Function testing and troubleshooting including inspection and repair costs

There shall be no third-party billing.

III. Performance Obligations / Ordering Party's Cooperation

The Ordering Party shall provide free-of-charge assistance to the manufacturer in carrying out the service operation.

In the case of a warranty claim, the manufacturer shall make the replacement parts necessary for the service available to the Ordering Party free of charge.

IV. Service Visit by the manufacturer

In the event that it is essential that a manufacturer employee carry out the service operation on site, this must be agreed in advance. Where the main reason for the service call is not the fault of the manufacturer, any costs incurred shall be recharged to the Ordering Party after the service visit.

V. Liability

The manufacturer shall assume liability in accordance with the currently applicable statutory regulations. The packaging for all of our products is designed for the shipping of individually packed goods (pallet). We expressly point out that our packaging is not suitable for individual

shipments via parcel post. The manufacturer shall accept no liability for damage incurred as a result of improper packaging in an individual shipment.

VI. Manufacturer's Warranty

The manufacturer's warranty shall apply only in the event that installation, operation and maintenance have been carried out in accordance with the manufacturer's specifications contained in the assembly instructions and instructions for use.

- The warranty period shall commence from the date on which proof of purchase is provided and shall be limited, in principle, to 24 months.
- Warranty services shall be performed only if the proof of purchase relating to the equipment can be presented.
- Any and all warranty claims shall become void if modifications are made to the equipment without the manufacturer's express consent.
- Any warranty claim shall likewise become void in the case of defects that arise due to repairs or interventions made by unauthorized persons or due to improper use.
- In the case of warranty claims, the serial and article numbers must be indicated together with the designation and a meaningful description of the fault.
- This warranty shall cover defective equipment parts, with the exception of normal wear parts. Wear parts shall include, among other things, light sources, starters, gas or oil pressure dampers as well as acrylic glass panes, tubular heating elements and sauna heater stones.
- Only original replacement parts may be used within the warranty.
- Service visits by outside companies shall require a written order to be issued by our service department.
- The equipment in question shall be sent to our service department by the Ordering Party and at its expense.
- Electrical assembly and installation work, including in the event of service or replacement, shall be carried out at the Customer's expense and shall not be borne by the manufacturer.

Complaints in respect of our products shall be reported to the specialist trader responsible and shall be exclusively handled via the latter.

The manufacturers General Terms and Conditions of Business, as amended, shall apply in addition to the foregoing terms and conditions of service.