

Mounting and operating instructions

General instructions

Please read these instructions carefully before installation and use, and keep them for future reference.

Application area

The FEZ200 has two heating panels and is designed for mounting heights of between 3 and 10 metres.

FEZ200 can be used for total or supplementary heating of whole premises, and also spot or zone heating in parts of premises.

Operating conditions

The maximum surrounding temperature must not exceed +30 °C.

Do not install where explosive vapours may be present, as defined in BS 5345. Or in environments where there is an increased risk of fire.

FEZ200 are protected to IP44, and are intended for indoor use only.

Mounting

The FEZ200 can be mounted on the ceiling, armature rails, or wire, or suspended from the ceiling by means of rods or chains.

The units are intended for permanent installation and should always be mounted horizontally.

In rooms which are frequently used, the heater should be mounted 1.5 to 2 metres above head height, see Fig. 2.

The distance between the heaters should not be more than the height between the heater and floor, i.e. "a" should be less than "H", see Fig. 2.

For minimum safety distances, see Fig. 3.

Mounting brackets are included and can be found inside the connection box.

- 1) Determine the position of the heater on the ceiling.
- 2) Bend the "legs" of the brackets (fig 1.1) to approximately 90° (fig 1.2).
- 3) Mount the brackets with an internal distance according to dimensional drawing on page 2, on the ceiling or on a wire (fig 1.3).

When the heater is mounted on a wire put the bracket on top of wire, and use clips to prevent the heater from sliding.

Mount the heater according to fig 1.4, making sure that the screws are tight.

Electrical installation

EZ200 heaters are designed for fixed installation.

The heater(s) should only be wired by a competent person and in accordance with the current edition of the IEE Wiring Regulations (BS 7671: Requirements for Electrical Installations) and any applicable statutory regulations.

The appliance should be preceded by a double pole isolating switch preferably with an indicator light.

The FEZ200 is approved for serial connection. Connection is made via the block terminals (16 mm²) which are located at the end of the heater.

There are two holes for cable glands on the top of the connection box. The cable glands used must guarantee the protection class requirements.

Installations protected by a Residual Current Device (RCD)

If the installation is protected by means of a residual current device (RCD) which trips when the heater is connected, this may be due to a build up of moisture in the heating element.

This is easily rectified by connecting the heater without a RCD so that the elements dry out. The drying time can vary from a few hours to a few days.

As a preventive measure in damp environments the heater should be run occasionally during the summer months.

To prevent nuisance tripping of RCD's in multi-heater installations, the heaters should be divided over several circuits, each with its own RCD.

Maintenance

The heaters have no moving parts and regular maintenance is not required.

There might be a rattling noise the first few weeks of use while the surfaces of the panels are settling, this is normal.

If the heater is used in rooms where aerosols, lacquers, solvents or similar are present, the aluminium panels may discolour. The output of the heater is not affected.

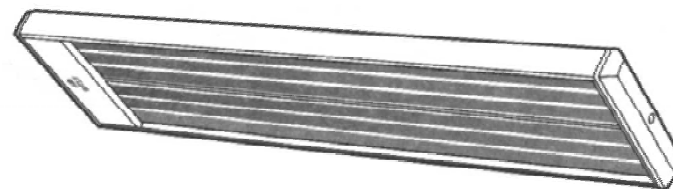
Important safety notices

Do not touch the heater while it is operating, the surfaces are hot!

The heater must not be covered, as this will result in a risk of fire!

FEZ200 Overhead Radiant Heaters

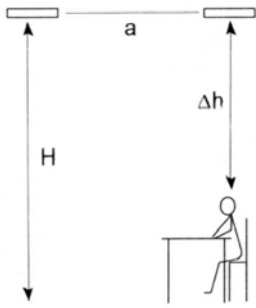
Please read these instructions fully before commencing installation and retain them for future reference.



FEZ212	1200w	230v
FEZ217	1700w	230v
FEZ222	2200w	230v

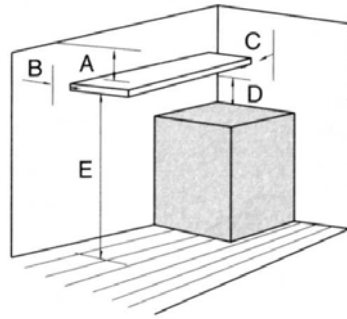
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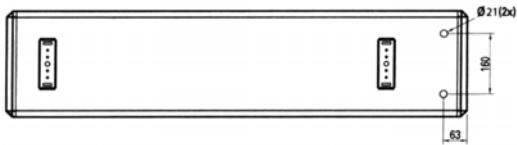
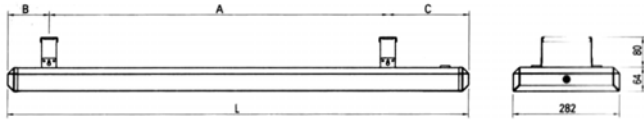
$a < H$
 $\Delta h = 1,5 - 2 \text{ m}$

Fig. 2: Positioning vertically



Type	FEZ200 [mm]
A	80
B	150
C	150
D	600
E	1800

Fig. 3: Minimum mounting distance



Type	L [mm]	A [mm]	B [mm]	C [mm]
FEZ212	923	600	110	213
FEZ217	1221	900	109	212
FEZ222	1520	1200	108	212

Internal Wiring Diagram FEZ200

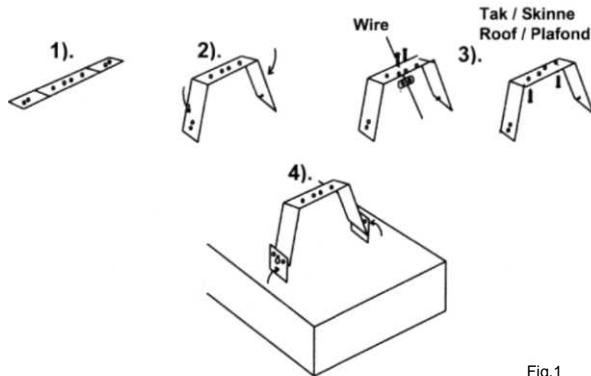
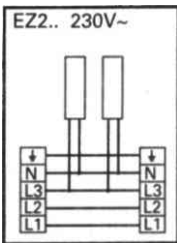
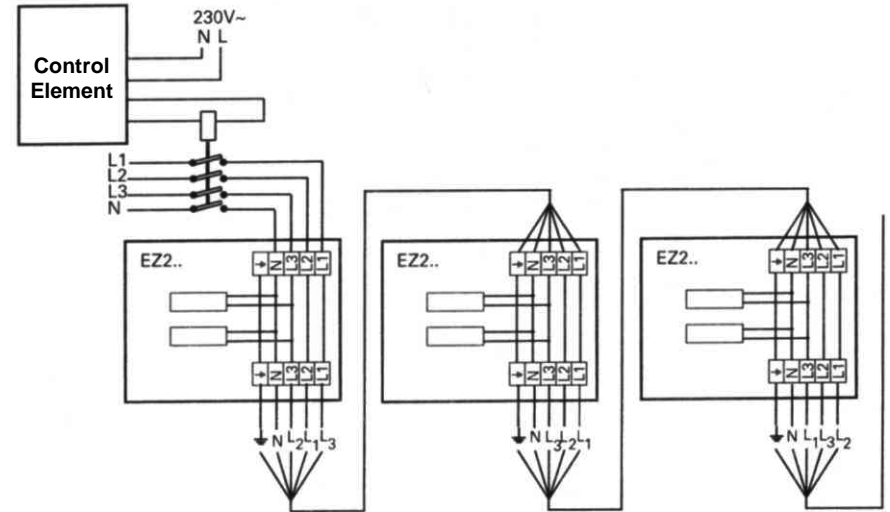


Fig.1

Multi-heater control with a contactor



Installation notes

FEZ200 heaters can be installed singularly, using a suitably rated double pole isolator.

However they are usually installed several at a time, in which case they are controlled using a contactor, see the above diagram.

The cabling, contactor, and isolator must be rated to carry the full current of all the heaters. Isolation and over current protection are required but have been omitted from the above diagram for clarity.

If a three phase supply is available the heaters should be connected between the phases and neutral to form as balanced a load as possible.

The contactor can be controlled via a manual switch, thermostat, time switch, or a combination of all three.

Compact enclosed isolators should be derated to allow for the effects of self heating.

FEZ200 heaters are a resistive load with low inrush currents, to prevent nuisance tripping we recommend type C MCB's.

Specification

Type	Output [W]	Voltage [V]	Current [A]	Max. surface temperature of emitters [°C]	Weight [kg]
FEZ212	1200	220 - 240	5,2	340	6,8
FEZ217	1700	220 - 240	7,4	340	8,8
FEZ222	2200	220 - 240	9,6	340	10,7

Protection class, all models: IP44