

Mounting and operating instructions

General Instructions

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

Application area

The FEZ336 has three heating panels and is designed for mounting heights of between 4 and 12 metres.

FEZ336 can be used both for total or supplementary heating of whole premises, and also for spot or zone heating of 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.

FEZ336 are protected to IP44, and are intended for indoor use only.

Mounting

The FEZ336 can be mounted on the ceiling, on armature rails, 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 be less 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 panel on the ceiling.
- 2) Bend the "legs" of the brackets (fig 1.1) to approximately 90° (fig1.2).
- 3) Mount the brackets with an internal distance according to dimensional drawing page 2, on the ceiling or on a wire (fig 1.3).

When the panel 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, start with one end and then assemble the other one. Making sure that the screws are tight.

Electrical installation

The FEZ336 is 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 an isolating switch preferably with a visual indicator.

The FEZ336 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 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 preventative measure in very damp environments the heater should occasionally be run for a short time during the summer months

To prevent nuisance tripping of RCD's in large 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 heating panels settle, this is normal.

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

Important safety notices

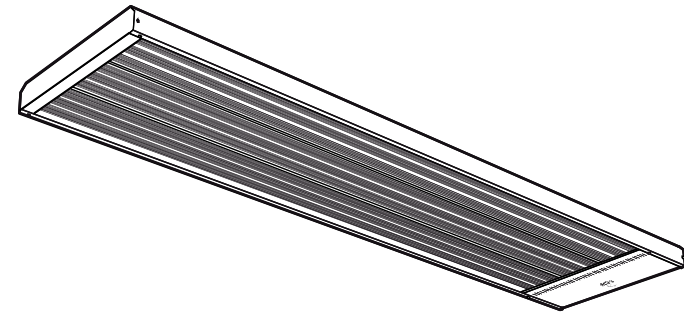
Do not touch the surfaces of the heater while it is operating, the surfaces are hot!

The heater must not be covered, as this will result in the risk of fire.

The minimum safety distances (Fig 3) must be adhered to.

FEZ336 Overhead Radiant Heater

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



FEZ336

3600w

400V3N

W. Tombling Ltd
Wembley House
Dozens Bank
West Pinchbeck
Spalding
Lincolnshire PE11 3ND
United Kingdom

Tel +44 (0) 1775 640 049
Fax +44 (0) 1775 640 050

www.tombling.com

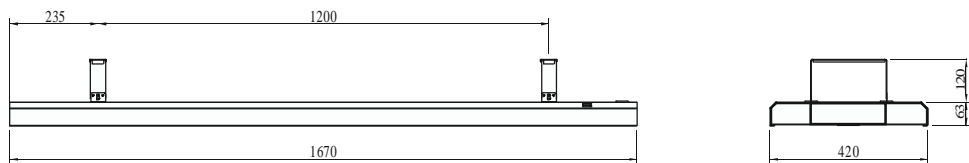
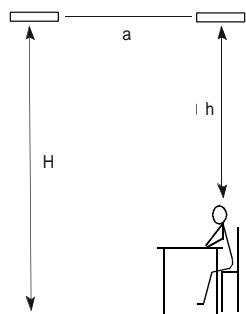
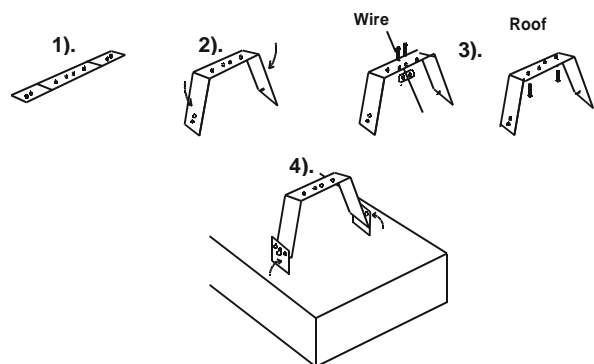
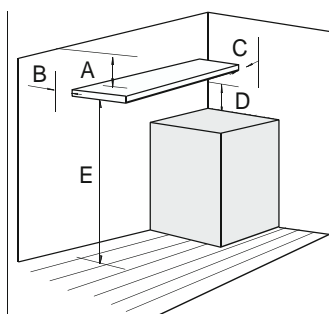


Fig. 1: Mounting bracket



$a < H$

Fig. 2: Vertical Positioning



Dimension	mm
A	120
B	250
C	250
D	700
E	1800

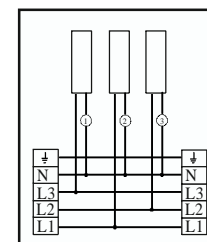
Fig. 3: Minimum safety distances

Technical Data

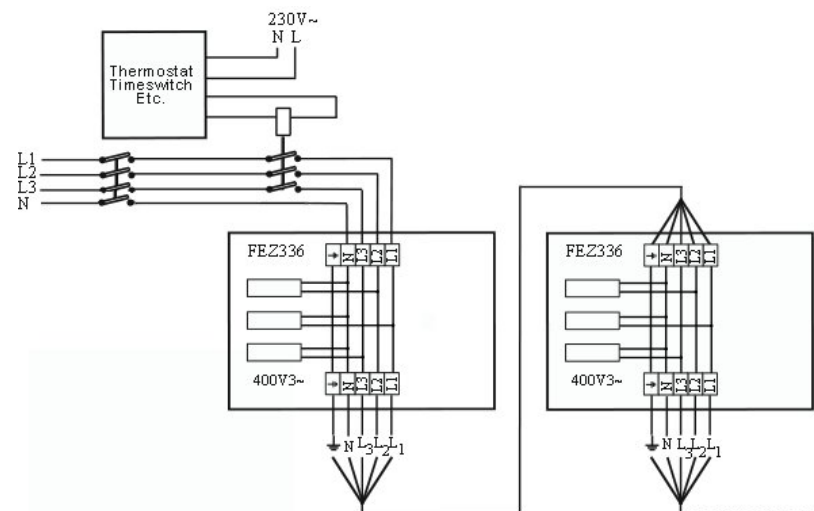
Model	Output [W]	Voltage [V]	Phase current [A]	Max. surface temperature [°C]	Weight [kg]
FEZ336	3600	400V3N~	5.2	350	19.8

Protection class FEZ 336: IP44

Internal wiring diagram



Serial connection to via contactor and isolating switch



Installation notes

FEZ336 heaters may be installed singularly, via a suitably rated isolating switch, preferably with a visual indicator.

However they are normally installed several at a time, in which case they are controlled via a contactor, as in the diagram above.

The cabling, contactor and isolator must be rated to carry the full current of all the heaters

The contactor can be controlled by a manual switch, thermostat, time switch, etc.

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

FEZ336 heaters are a resistive load with low inrush currents. However to prevent nuisance tripping use type C MCB's.

Where RCD (Residual Current Devices) are used, separate the heaters over several circuits to prevent nuisance tripping.