



⚡ Electrical heat 4200 W

1 model CE

Elztrip EZF

Radiant heater for ceiling heights between 4 and 15 metres

Elztrip EZF42 has an option of two or three heating panels and is intended for ceiling heights between 4 and 15 metres. EZF42 is used in for example warehouses, exhibition halls, sport centres and department stores.

Large energy savings are obtained because no unnecessary heat is gathered under the ceiling and because the radiant heat contribution allows for a lower air temperature. Heating with radiant heaters is energy effective and contribute to a high level of heat. EZF42 is suitable both for total heating and additional heat, as well as protection against cold draughts from large glass surfaces.

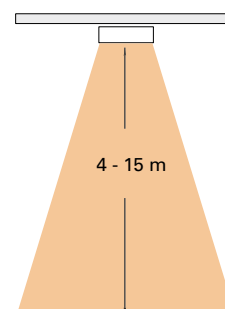
EZF42 has high output, but yet comparatively low surface temperature, which gives a long-wave radiant heating with a high comfort level and performance.

The radiant heater is mounted on the ceiling, armature rails, on wire, or suspended.

Single heaters are easily regulated by any Frico room thermostat. A group of heaters is preferably regulated by electric heating regulator ERP.

- Surface structure that gives optimal efficiency.
- Casing of natural aluminium zinc which is very resistant against corrosion. Heating panel, natural anodized aluminium. Colour: "Champagne".
- The heater is approved for serial connection.
- Ceiling mounting brackets are included as standard.
- Easy to mount together with electric fittings.

Installation height



Design and specifications are subject to change without notice.



Elztrip is an elegant and effective solution to cold draught problems. Hilton in Malmö has adopted this solution in their large glass lobby.



EZF is used both for total and spot heating in this sports centre. The hall is divided into different temperature zones to meet different temperature demands.



EZF blend in discreetly with the electrical fittings at BMW Group outside Stockholm.



When using a conventional heating system, the warm air rises and stays under the ceiling and the cold air drops down to the floor. This is especially notable in buildings with high ceilings. Overheated air causes big energy losses. Radiant heaters on the contrary provide an even temperature.

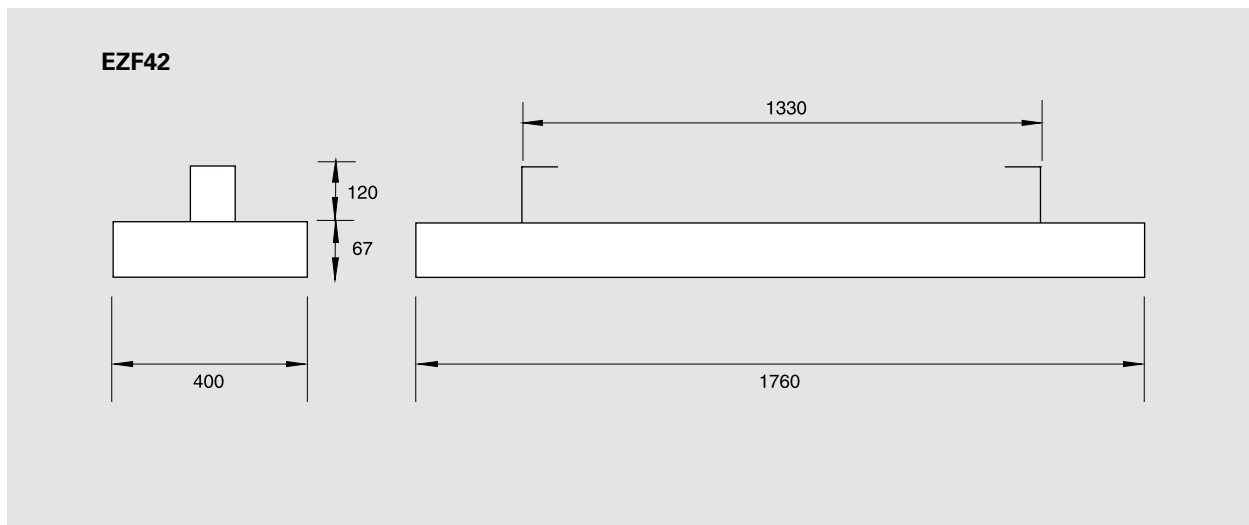
Elztrip EZF42

Technical specifications | Elztrip EZF42 ⚡

Type	Heat output [W]	Voltage [V]	Amperage [A]	Dimensions LxHxW [mm]	Max. surface temperature [°C]	Weight [kg]
EZF42	4200	400V3~	6,1	1760x67x400	370	20

Protection class Elztrip EZF: (IP44), splash-proof design.
CE compliant.

Dimensions



Positioning, mounting and installation

Positioning

To estimate approximately how many radiant heaters are needed to cover an area the formula is:

$$\text{Min. number of heaters} = \frac{\text{Area of the premises [m}^2\text{]}}{\text{Installation height [m]} \times \text{Installation height [m]}}$$

This formula is a basic estimation of the minimum number of radiant heaters needed to maintain the comfort. To calculate the right output for each heater, the total heating requirement must be calculated, see the Technical handbook.

When planning an Elztrip installation, the distance between the heaters should not be greater than the height between heater and floor, that means (a) should be less than (H). See Fig. 1. In rooms not often used, the comfort demands are usually lower and the distance between the heaters can be increased. In rooms frequently used, the distance between a sedentary person and heater should be at least between 1.5 to 2 metres (Δh). When these two guide lines are followed, the difference in operative temperature will not exceed the comfort level $\Delta t_{op} = 5\text{ }^\circ\text{C}$. This means that the difference between the real temperature and the temperature that man senses, will not be more than $5\text{ }^\circ\text{C}$. Max. surrounding temperature is $+30\text{ }^\circ\text{C}$.

Mounting

Elztrip EZF is mounted on the ceiling, on armature rails, on wire or suspended. EZF should always be mounted horizontally. For minimum mounting distance, see Fig. 2. Standard fittings (2 pcs) for mounting are included and are found inside the connection box. When mounting on wire, suitable clips that prevent the panel from sliding should be acquired.

Connection

EZF is intended for permanent installation. Serial connection is easily made through the plinth (16 mm^2).

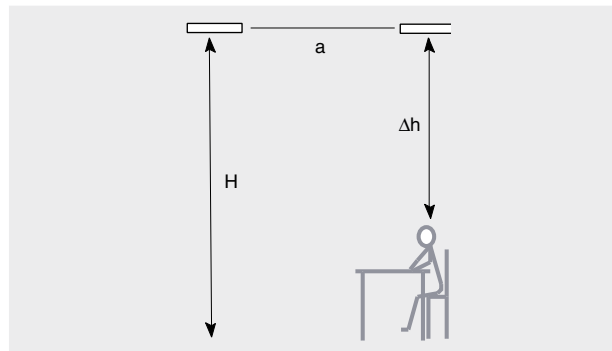
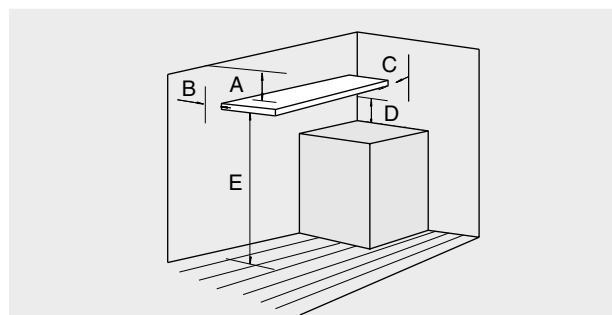


Fig. 1: Positioning vertically



	Min.distance [mm]	
	EZF42	
Ceiling	A	120
Wall, long side of the unit	B	250
Wall, short side of the unit	C	250
Flammable material	D	1000
Floor	E	1800

Fig. 2: Minimum mounting distance.

Control options

Control with thermostat, contactor and switch

The choice of thermostat depends on needs and environment.

Connection is made by a 3 step switch making it possible to manually connect the elements 1 + 1 + 1.

- T10, external thermostat with concealed knob
- TK10, external thermostat with visible knob
- KRT1900, capillary tube thermostat, IP55

For further options, see section on thermostats and controls or contact Frico.

Accessories

LMSEZ, line mounting set

For mounting of EZF on droprods, wires etc.

Controls and other accessories

Type	Description	HxWxD [mm]
T10	Electr. thermostat	80x80x31
TK10	Electr. thermostat, knob	80x80x31
KRT1900	Capillary room thermostat, IP55	165x57x60
LMSEZ	Line mounting set	

Wiring diagrams EZF42

Internal wiring diagrams.

