600-1500 W Electrical heat

3 models

CE

Elztrip EZ100

Single panel radiant heater for offices, shops etc.

Application

EZ100 is intended for total and supplementary heating as well as protection against cold draughts from windows in environments such as offices, shops, restaurants etc.

Comfort

Radiant heaters give a soft, pleasant heat and individual comfort can be created with spot and zone heating. They also provide excellent protection against cold draught from windows. No moving parts mean a silent system that does not cause air movements and the hygiene is improved when the spread of dust, bacteria or odours is reduced.

Operation and economy

Radiant heaters have an easy and flexible installation and require a minimum of maintenance. Ceiling mounting leaves the walls free and increases safety. They give instant heat and the room temperature can be reduced with maintained comfort.

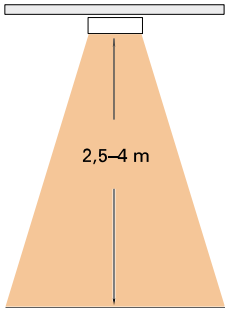
Design

EZ100 is a single panel radiant heater with clean and simple design that blends well with electrical fittings.

Product specifications

- Surface structure for best efficiency.
- The heaters are approved for serial connection.
- Fixtures for easy mounting on the ceiling are included.
- Bracket for wall mounting (EZMVK) is available as an accessory.
- Corrosion proof casing of hot zinc-plated and powder lacquered steel panels. Colour: white, RAL 9010, NCS 0502-B.

Installation height



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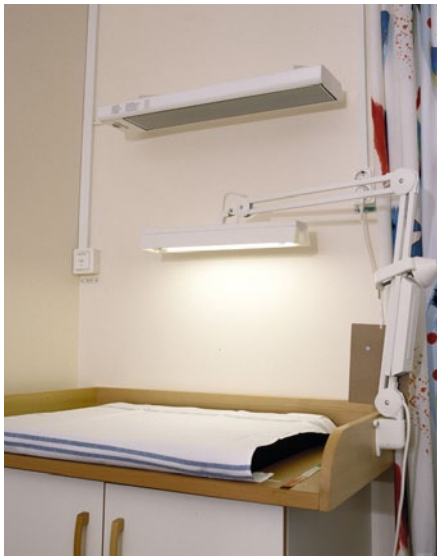
Corridors can be difficult to heat, but ceiling mounted EZ100 give off heat just where it is needed.

The nice wooden walls are kept free with EZ100 mounted on the ceiling.

Buildings that are used on an irregular basis can be heated fast without a high energy consumption. EZ100 blends well with electrical fittings.



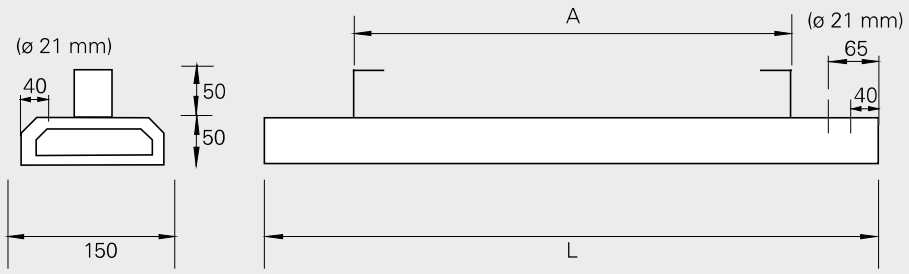
Spot heating with EZ100 is safe and hygienic.

Technical specifications | Elztrip EZ 100

Type	Output [W]	Voltage [V]	Amperage [A]	Max. surface temperature [°C]	Dimensions LxHxW [mm]	Weight [kg]
EZ106	600	230V~	2.6	280	1000x50x150	3.7
EZ111	1050	230V~	4.6	280	1500x50x150	5.4
EZ115	1500	230V~	6.5	280	2000x50x150	7.8

Protection class: IP44.
Approved by SEMKO and CE compliant.

Dimensions



Positioning, mounting and installation

Positioning

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

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

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 Δtop= 5 °C. This means that the difference between the real temperature and the temperature that we sense, will not be more than 5 °C.

Mounting

Elztrip EZ100 is mounted on the ceiling, on armature rails, on wire or suspended etc. EZ100 should always be mounted horizontally. For minimum mounting distance, see Fig. 2. Ceiling fixtures and screws are found inside the connection box. Brackets for wall mounting (EZMVK) are extra. See Fig. 3.

Connection

EZ100 is intended for permanent installation. Connection and serial connection of EZ100 is done with a maximum cable size of 4x2.5 mm² + earth.

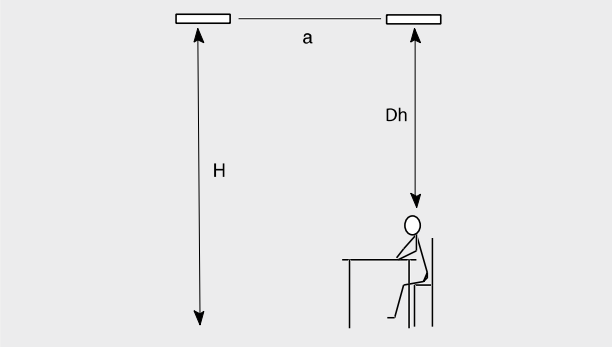
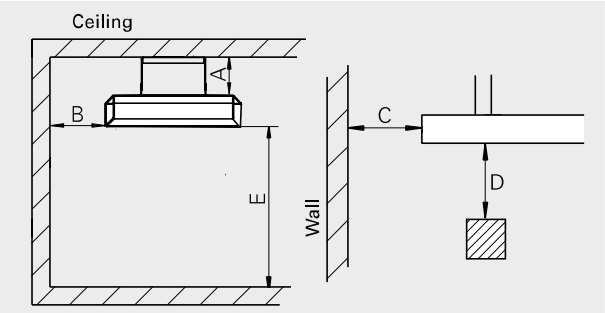


Fig. 1: Positioning vertically.



		Min.distance [mm]
Ceiling	A	50
Wall, long side of the unit	B	50
Wall, short side of the unit	C	50
Flammable material	D	500
Floor	E	1800

Fig. 2: Minimum mounting distance.

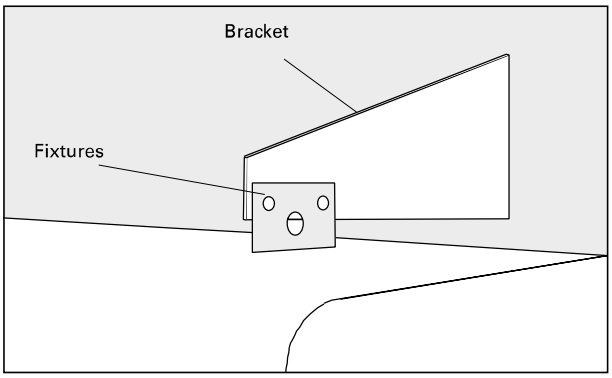


Fig. 3: Brackets for wall mounting EZMVK (extra).

Control options

Output control
Stepless control that precisely adapts energy use to the current demand, giving maximal benefit from radiant heating. This results in a soft comfortable heating and lower energy costs.

- ERP, electric heating control
- ERPS, electric heating control (slave)

Control by thermostat

The choice of thermostat depends on needs and environment. If the load exceeds the limits of the thermostats or if you want to control large systems, a contactor can be used.

- T10, electronic thermostat with concealed knob
- TKS16, electronic thermostat with visible knob, 1-pole switch
- TD10, thermostat with digital display
- KRT1900, capillary room thermostat, IP55

Output control with timer
Stepless control especially suitable for spot and zone heating. The heat contribution is controlled for best comfort. Built-in timer is set to desired time.

- CIRT, stepless output control with timer

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

Accessories

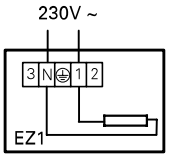
EZMVK, mounting bracket
To mount EZ100 on the wall, see Fig.3.

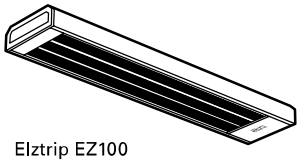
Controls and other accessories

Type	Description	HxWxD [mm]
ERP	Electric heating control	153x94x43
ERPS	Electric heating control (slave)	153x94x43
T10	Electronic thermostat	80x80x31
TKS16	Electronic thermostat, knob, 1-pole switch	80x80x39
TD10	Electronic thermostat, display	80x80x31
KRT1900	Capillary room thermostat, IP55	165x57x60
CIRT	Stepless output control with timer	155x87x43
EZMVK	Mounting bracket	

Wiring diagrams

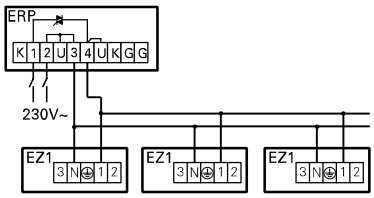
Internal wiring diagram



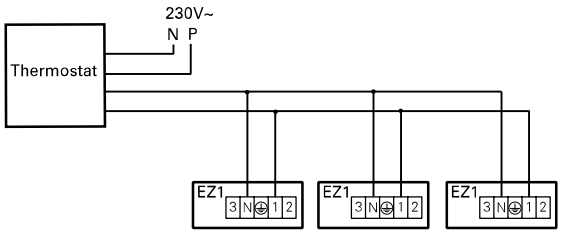


Elztrip EZ100

Output control



Control by thermostat



Output control with timer