Ceramic Focus Infrared Radiators FIS

Figure 1: Elstein FIS focus infrared radiator

Elstein focus infrared radiators FIS are ceramic IR-dark radiators with reflector made of aluminium and E27 screw caps.

The aluminium reflector focuses the infrared radiation being generated by a ceramic rod radiator so that the FIS radiator transmits a high radiation power to a small area.

This concentration of radiation power is especially suited for solving tasks dealing with the heating of selective or small areas.

The standardised E27 thread allows easy and safe installation, as the radiators can be screwed in like bulbs into porcelain or metal sockets with porcelain insert.

The standard power of Elstein focus infrared radiators FIS is 250 W.

FIS

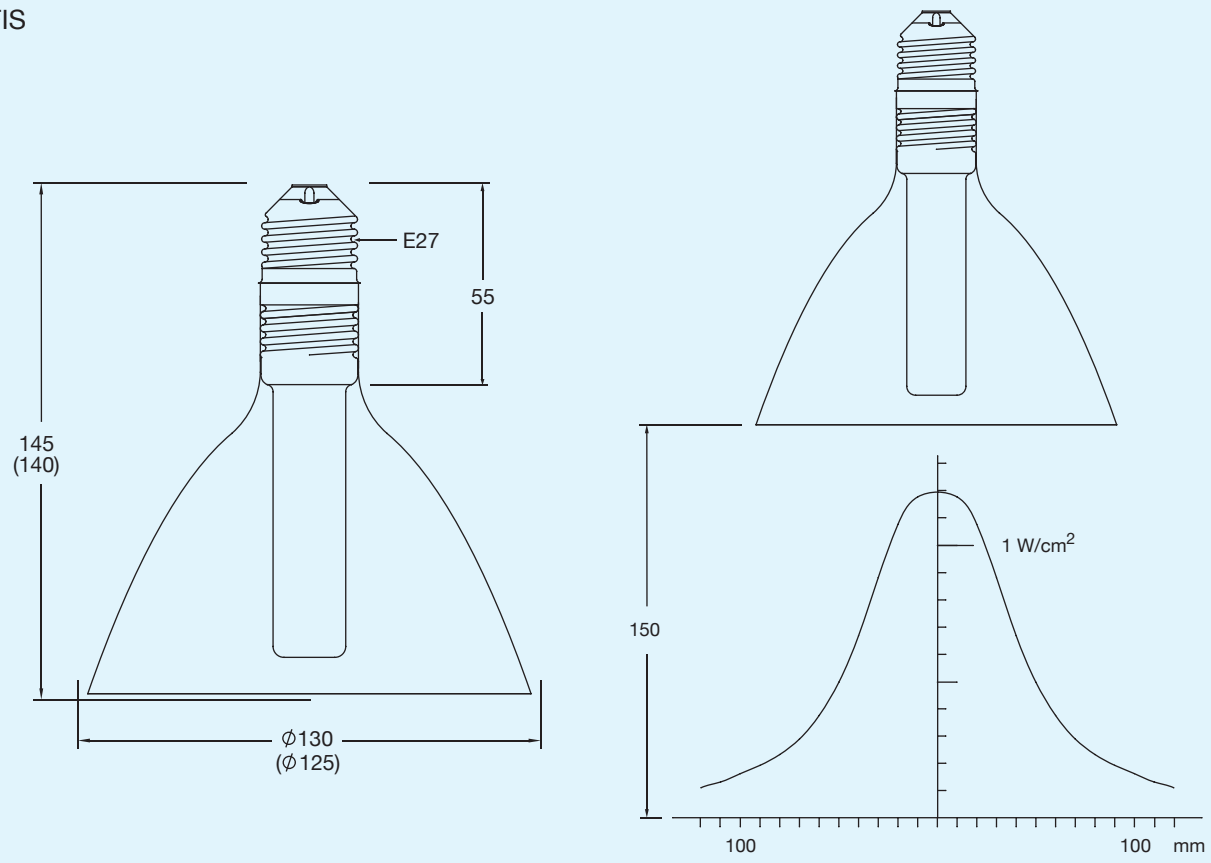

Figure 2: Mounting dimensions and radiator dimensions ( ) in mm and power distribution

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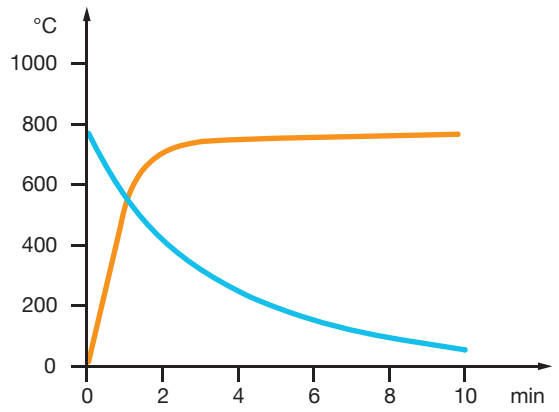

Fig. 3: Radiator temperatures
Heating-up: red curve
Cooling-down: blue curve

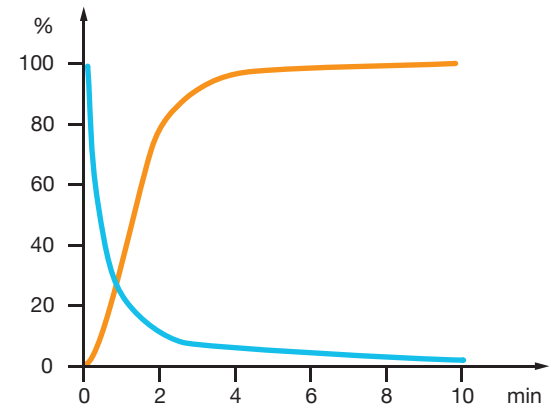

Fig. 4: Radiant powers
Heating-up: red curve
Cooling-down: blue curve

Type, weight, wattage FIS 90 g	250	W
Surface rating	12.3	kW/m²
Typical operating temperature	750	°C
Maximum permissible temperature	750	°C
Wavelength range	2 - 10	µm

Standard design	**Thermocouple radiators**	**Variants**
Operating voltage 230 V Aluminium reflector E27 Edison screw cap	Not available. For means of controlling output see below.	Special wattages Special voltages on request

The power can be adjusted using proprietary power controllers or dimmers.

Porcelain or metal sockets with porcelain inserts are to be used both for electrical and mechanical connection of Elstein FIS radiators. The sockets must not contain any plastic components.

The national safety regulations must be complied with for the respective application, for example, the IEC or EN standard 60519-1, Safety in electrical heating installations.

Further information is given in the safety information enclosed with each radiator.