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ELSTEIN

IRE- 070.15E



ELSTEIN HFS PANEL RADIATORS

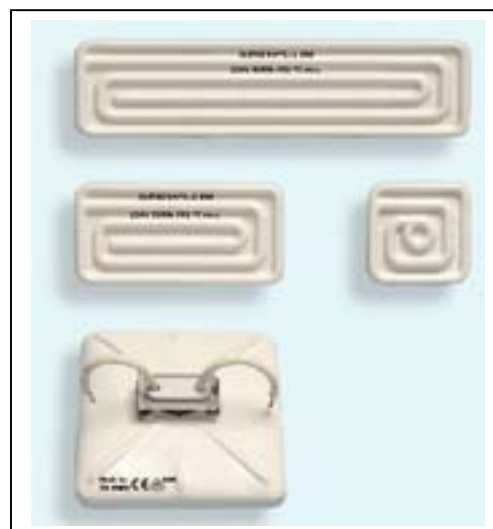
Elstein HFS panel radiators are ceramic infrared radiators, which are designed for medium surface ratings up to 38.4 kW/m² and operating temperatures up to 700 °C.

HFS series radiators are made using a hollow casting ceramic process. Compared to ceramic IR radiators produced using the full-pour casting process, HFS radiators have a considerably shorter heating-up time.

This technique was successfully used first for HFS radiators and then further developed for subsequent models.

HFS panel radiators are available in four designs and cover the power range from 60 W to 600 W.

Elstein HFS panel radiators have customary market dimensions and can therefore be replaced with radiators with the relevant properties if the requirements change.



Type, weight, wattage Operating voltage 230 V	HFS	122 x 122 mm	220 g	250	400	600	W
	HFS/1	245 x 60 mm	220 g	250	200	300	W
	HFS/2	122 x 60 mm	125 g	125	200	300	W
	HFS/4	65 x 60 mm	75 g	60	100	150	W
Surface rating				16	25,6	38,4	kW
Typical operating temperature				420	510	630	° C
Maximum permissible temperature				700	700	700	° C
Wavelength range				2 - 10			µm

Standard design	Thermocouple radiators	Variants
Operating voltage 230 V Ceramic hollow casting White glaze Leads 85 mm Elstein standard socket Mounting set	Designation T-HFS, T-HFS/1, T-HFS/2, T-HFS/4 Integrated thermocouple Type K (NiCr-Ni) TC leads 100 mm	Special wattages Special voltages Extended leads Leads with ring terminals

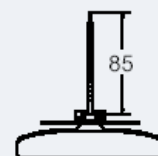
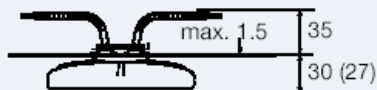
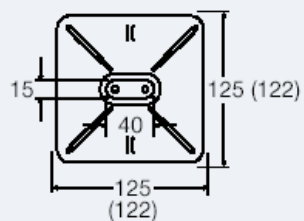
The power can be controlled using thermocouple radiators together with TRD 1 temperature controllers, TSE thyristor switching units and other accessories.

IR radiation areas can be assembled using REO reflectors, REF construction sets and MBO mounting sheets. 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.

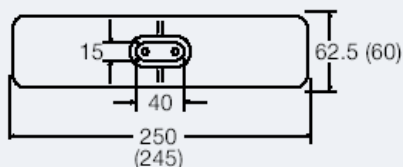
Further information and safety information are given in the mounting instruction enclosed with each radiator.

Mounting dimensions and radiator dimensions () in mm

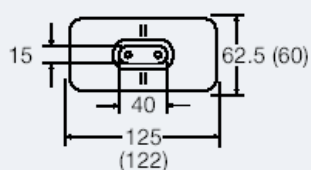
HFS



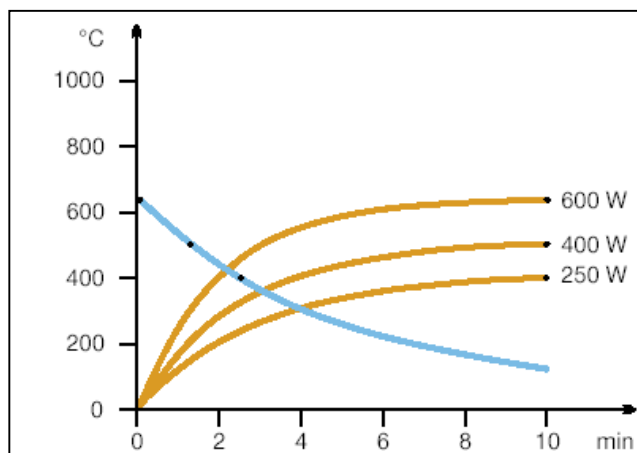
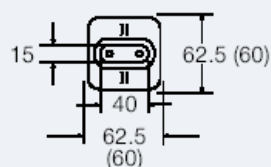
HFS/1



HFS/2

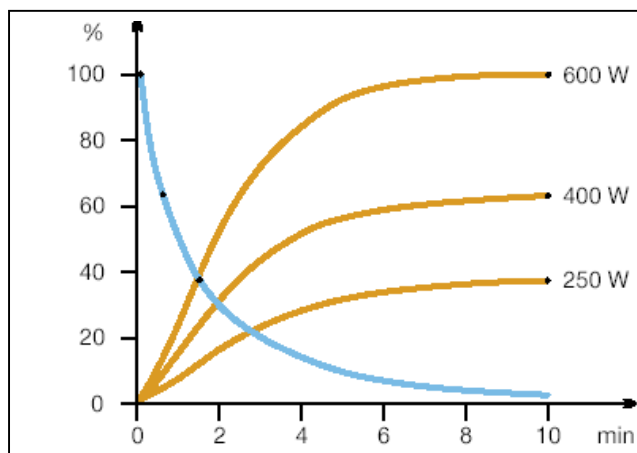


HFS/4



Radiator temperatures

Heating-up: red curves
Cooling-down: blue curve



Radiant powers

Heating-up: red curves
Cooling-down: blue curve