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ELSTEIN

IRE- 070.12E



ELSTEIN HTS HIGH TEMPERATURE RADIATORS

Elstein HTS high temperature radiators are ceramic infrared panel radiators, which can be used for operating temperatures up to 860 °C and surface ratings up to 64 kW/m².

HTS series radiators are produced using a hollowcasting ceramic process and are filled with thermal insulation material. This improves the radiant power output to the material to be heated.

Furthermore, there is a significant reduction in heat dissipated in the wiring space, so that additional insulation of the heating area is usually not required.

Compared with IR radiators, which are produced using full-poured casting processes, HTS radiators have a considerably reduced heating-up time and, depending on the type of application, enable energy savings of up to 25 %.

Elstein HTS high temperature radiators are available in four designs and cover the power range from 60 W to 1000W



Type, weight, wattage	HTS	122 x 122 mm	220 g	250	400	600	800	1000	W
	HTS/1	245 x 60 mm.	220 g	250	400	600	800	1000	W
Operating voltage 230 V	HTS/2	122 x 60 mm.	125 g	125	200	300	400	500	W
	HTS/4	60 x 60 mm.	75 g	60	100	150	200	250	W
Surface rating				16	25,6	38,4	51,2	64	kW
Typical operating temperature				450	570	700	810	900	° C
Maximum permissible temperature				700	750	800	850	900	° C
Wavelength range				2 – 10					µm

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

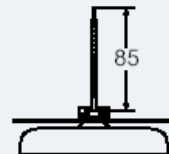
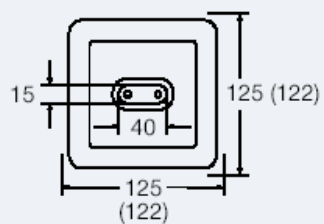
The power can be controlled using thermocouple radiators together with TRD 1 temperature controllers, TSE thyristor switching units and other accessories.

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

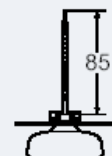
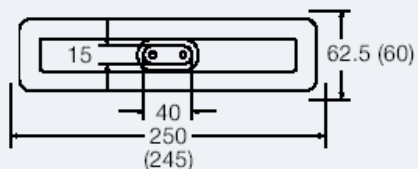
The national safety regulations must be complied with for the respective application, for example, the IEC or EN standard 60519-1, Safety in electrical heating installations.
Further information and safety information are given in this document and in the mounting instruction enclosed with each radiator.

Mounting dimensions and radiator dimensions () in mm

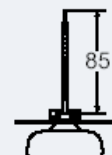
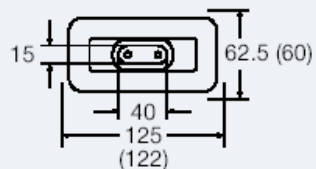
HTS



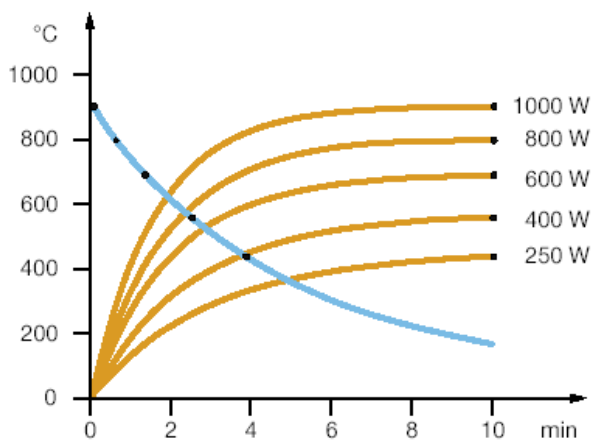
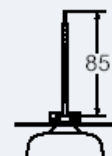
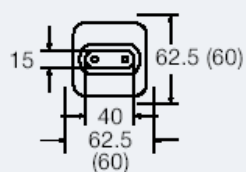
HTS/1



HTS/2

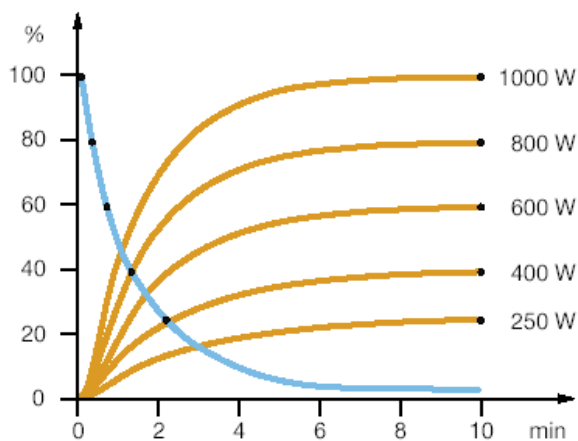


HTS/4



Radiator temperatures

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



Radiant powers

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