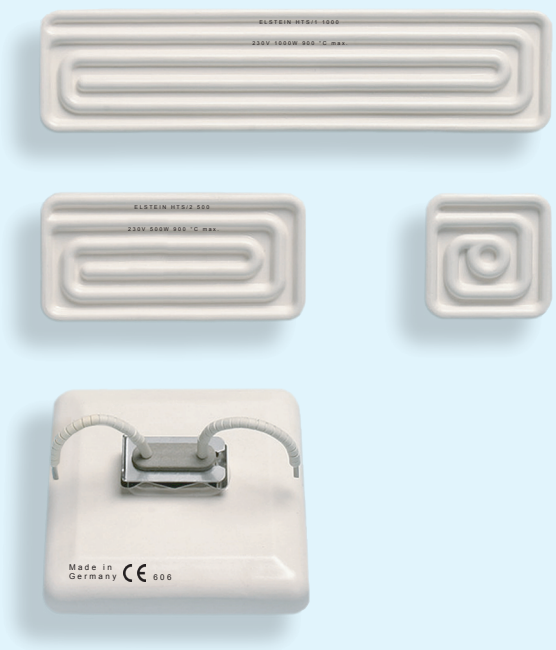


Figure 39: Elstein HTS series

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 hollow-casting 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 1000 W.

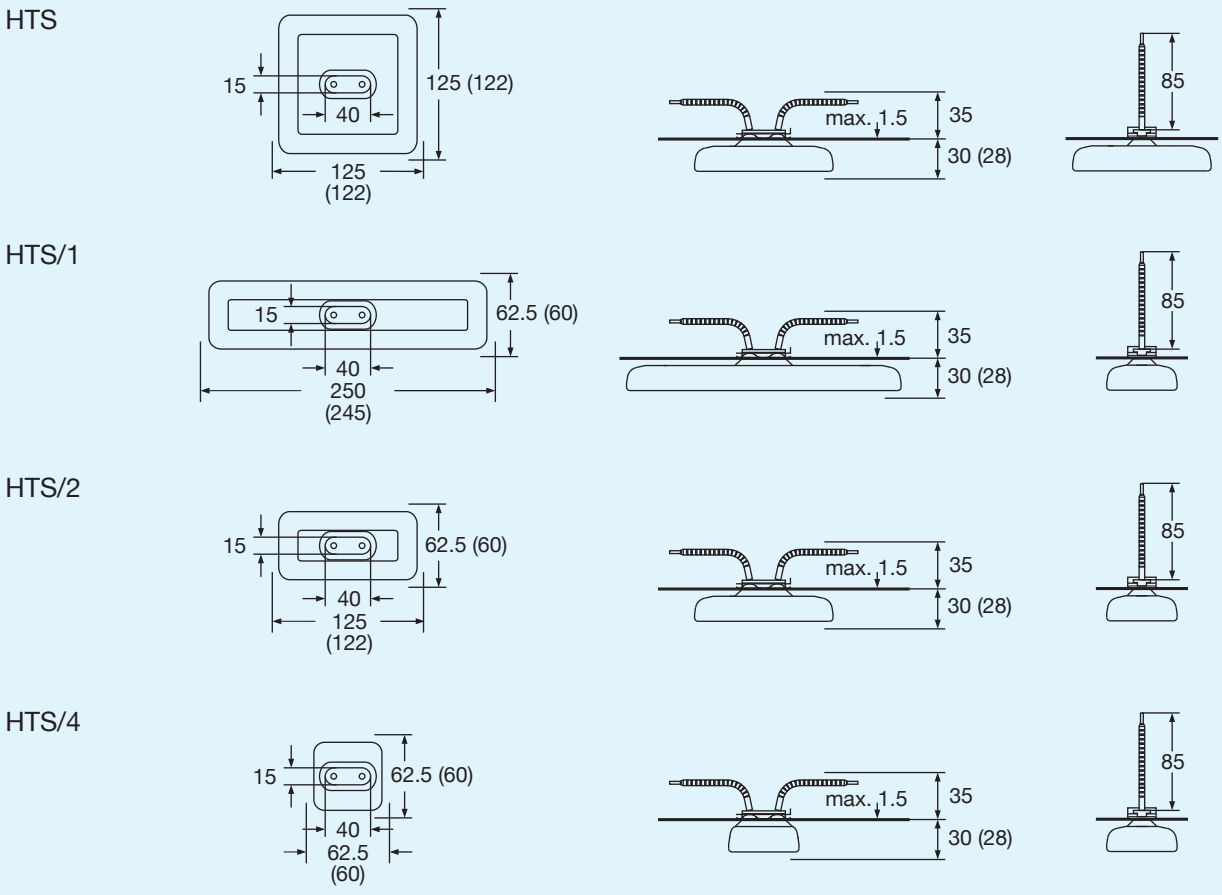


Figure 40: Mounting dimensions and radiator dimensions ( ) in mm

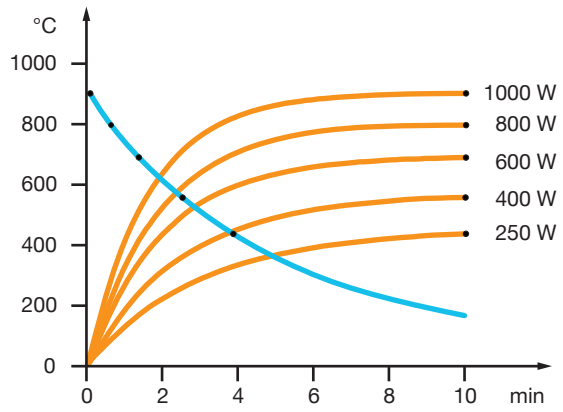


Fig. 41: Radiator temperatures
Heating-up: red curves
Cooling-down: blue curve

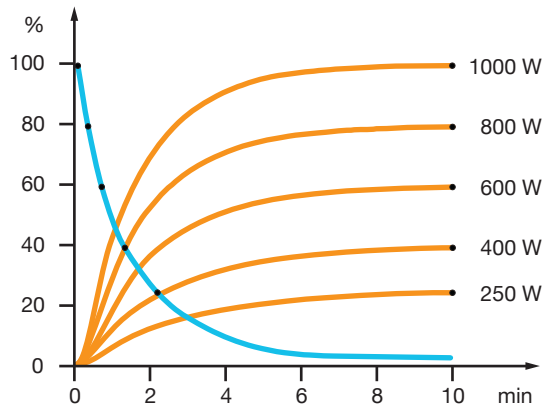


Fig. 42: Radiant powers
Heating-up: red curves
Cooling-down: blue curve

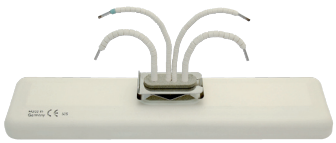
Type, weight, wattage	HTS/1, HTS	220 g	250	400	600	800	1000	W
	HTS/2	125 g	125	200	300	400	500	W
	HTS/4	75 g	60	100	150	200	250	W
Surface rating			16.0	25.6	38.4	51.2	64.0	kW/m²
Typical operating temperature			450	570	700	810	860	°C
Maximum permissible temperature			900	900	900	900	900	°C
Wavelength range			2 - 10					µm

Standard design

Operating voltage 230 V
Ceramic hollow casting
Integrated thermal insulation
Leads 85 mm
Elstein standard socket
Mounting set

Thermocouple radiators

Designation T-HTS, T-HTS/1, T-HTS/2, T-HTS/4
Integrated thermocouple
Type K (NiCr-Ni)
TC leads 100 mm



Variants

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.