



Figure 30: Elstein SHTS series

Elstein SHTS super high temperature radiators were developed to increase the previous maximum possible surface rating of ceramic panel radiators from 64 kW/m² to 77 kW/m².

The SHTS radiators, produced using the hollow casting ceramic process, are filled with thermal insulation material and have a special black glaze and a gold-plated back. At an operating temperature of 900 °C, over 75 % of the electrical energy supplied is transferred to the material to be heated as medium to long-wave IR radiation.

SHTS series radiators are therefore particularly suitable for use in plant construction in which special solutions have to be drawn up for the customer's specific needs and for applications requiring high outputs.

The four designs cover the power range from 300 W to 1200 W and have customary market dimensions. Existing IR equipments can therefore be retrofitted with Elstein SHTS series radiators.

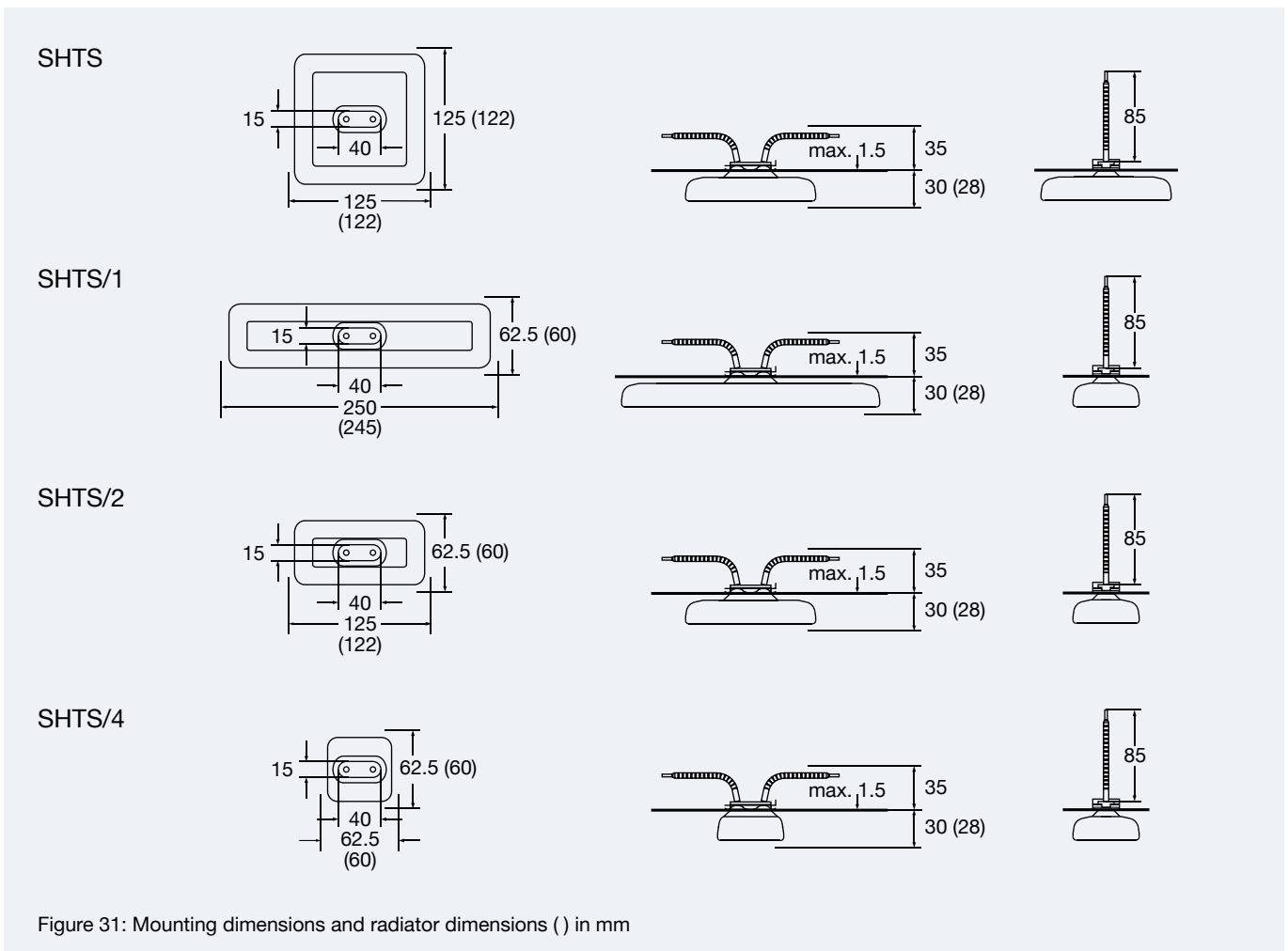
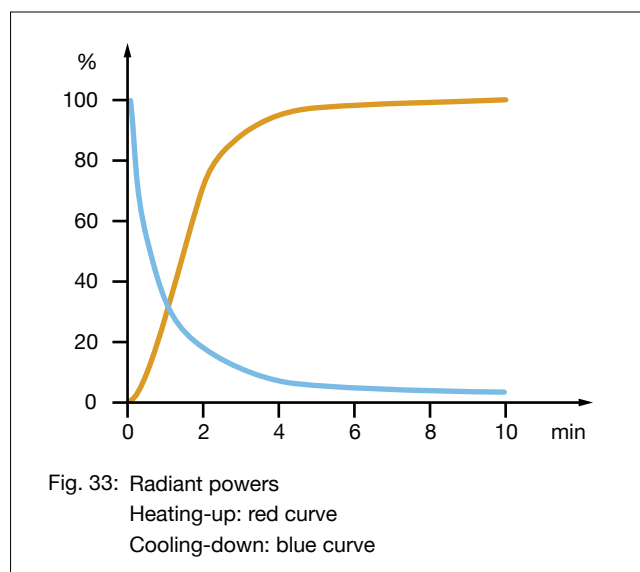
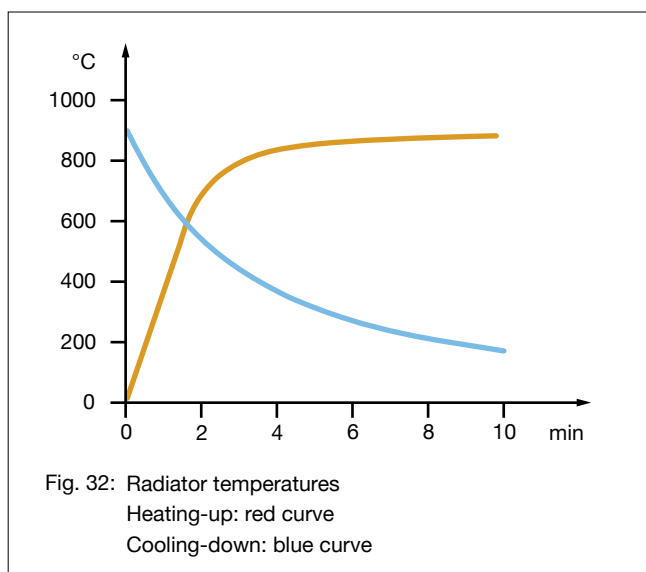


Figure 31: Mounting dimensions and radiator dimensions () in mm



Type, weight, wattage	SHTS/1, SHTS	220 g	1200	W
	SHTS/2	125 g	600	W
	SHTS/4	75 g	300	W
Surface rating			76.8	kW/m ²
Typical operating temperature			860	°C
Maximum permissible temperature			900	°C
Wavelength range			2 - 10	μm

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

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

IR radiation areas can be assembled using REO reflectors, REF construction sets, EBF construction elements 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.