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ELSTEIN

IRE- 070.21E



SHTS SUPER HIGH TEMPERATURE RADIATOR

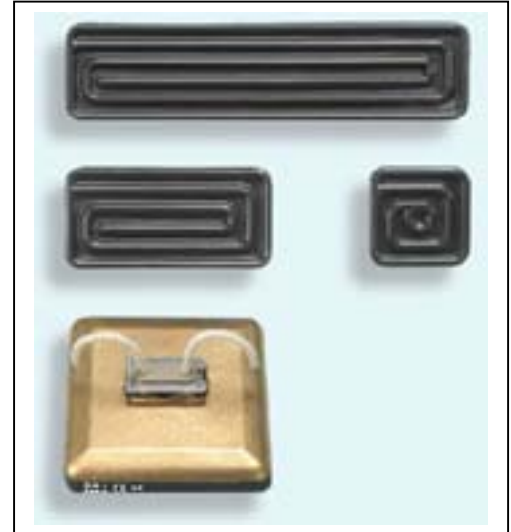
Elstein SHTS super high temperature radiators were developed to increase the previous maximum possible surface rating of ceramic panel radiators from 64 kW/m² to 77 kW/m².

The SHTS radiators, produced using the hollow casting ceramic process, are filled with thermal insulation material and have a special black glaze and a goldplated 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 longwave 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.



Type, weight, wattage a 230 V	SHTS	122 x 122 mm	230 g	1200	W
	SHTS/1	245 x 60 mm	230 g	1200	W
	SHTS/2	122 x 60 mm	125 g	600	W
	SHTS/4	60 x 60 mm	80 g	300	W
Surface rating				76,8	kW/m ²
Typical operating temperature				880	°C
Maximum permissible temperature				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 Special black glaze Gold-plated back	Designation T-SHTS, T-SHTS/1, T-SHTS/2, T-SHTS/4 Integrated thermocouple Type K (NiCr-Ni) TC leads 100 mm 	Special wattages Special voltages Extended leads Leads with ring terminals

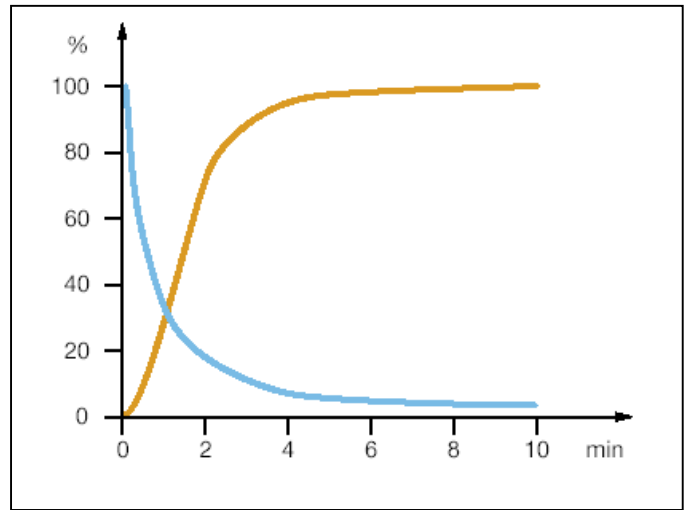
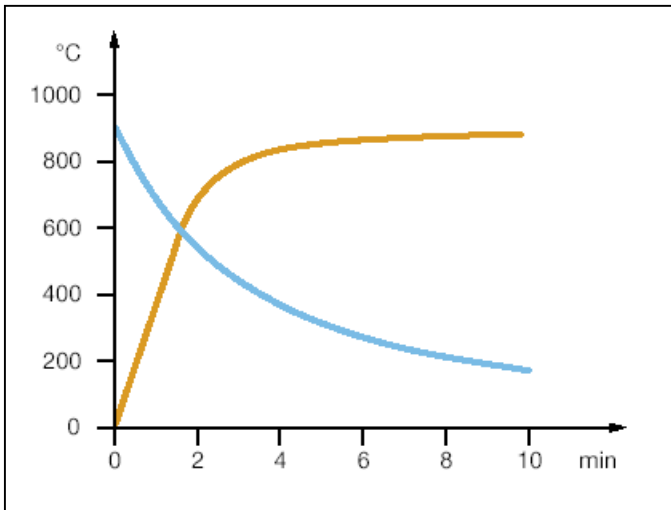
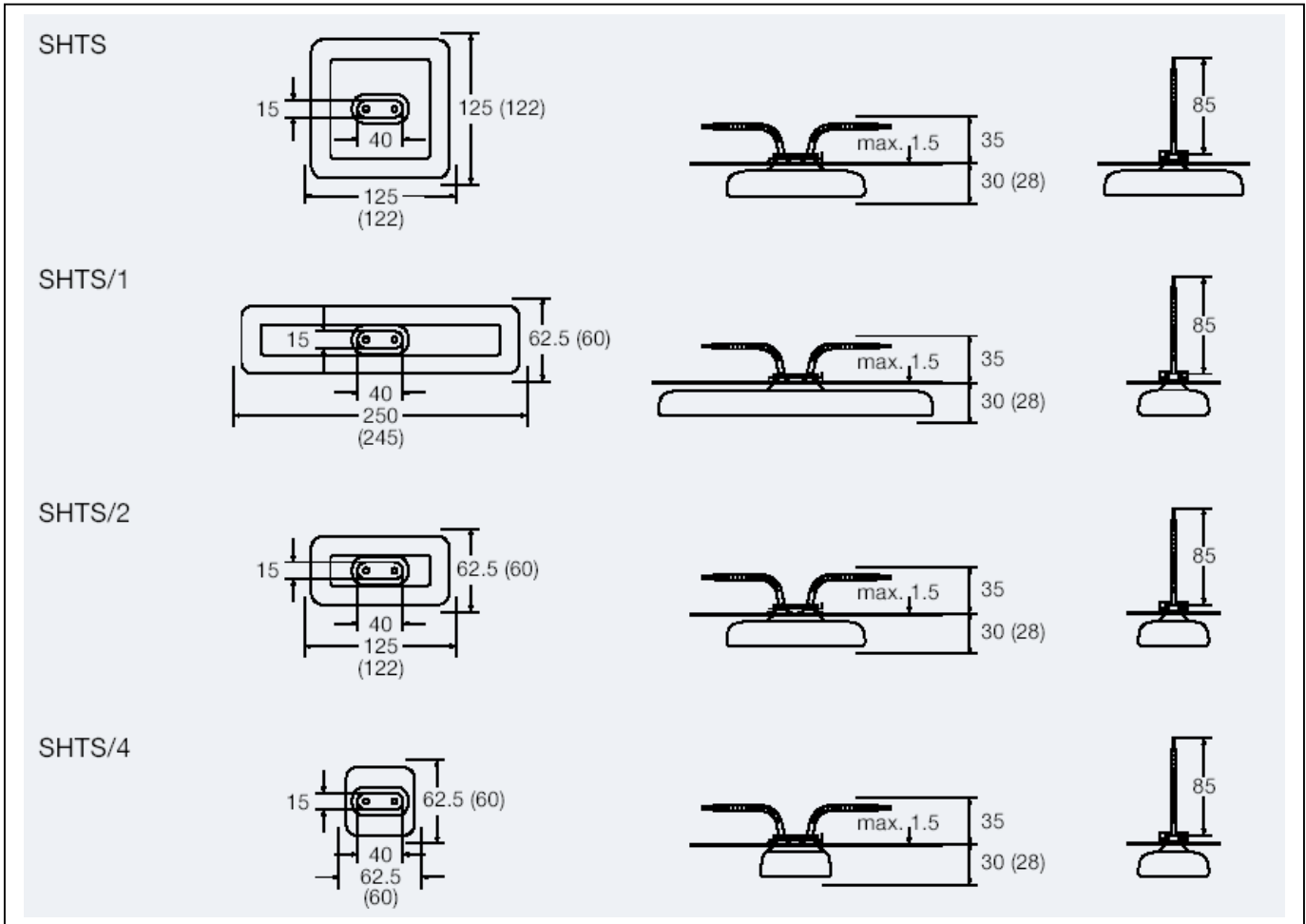
The power can be controlled using thermocouple radiators together with TRD 1 temperature controllers, TSE thyristor switching units and other accessories.

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

Our instructions for mounting, operation and safety must be observed.

SHTS MOUNTING DIMENSIONS AND RADIATOR DIMENSIONS () IN MM



Radiator temperatures

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

Radiant powers

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

SHTS/100 SUPER HIGH TEMPERATURE RADIATOR

So far the power of ceramic panel heaters was limited to 64 kW/m². This limit is exceeded by the Elstein SHTS/100 super high temperature radiator from 64 kW/m² to 80 kW/m².

It has a nominal power of 800 W and can continuously operate with temperatures of up to 900 °C.

Infrared radiation areas can be assembled using **MTO** stainless steel mounting carriers.

SHTS/100 with the dimensions 96 x 96 mm and a surface rating of 80 kW/m² is a variant of the SHTS radiator with the dimensions 122 x 122 mm and a surface rating of 77 kW/m².



SHTS 100 MOUNTING DIMENSIONS AND RADIATOR DIMENSIONS AND MTO () IN MM

