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ELSTEIN

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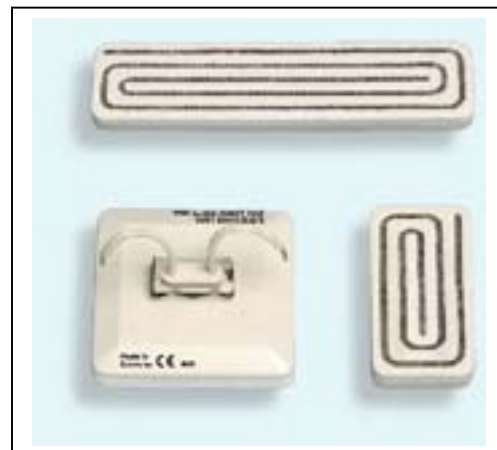
ELSTEIN HSR HIGH SPEED RADIATORS

Elstein HSR high speed radiators are quick-reaction ceramic infrared panel radiators, designed for operating temperatures up to 860 °C and surface ratings up to 64 kW/m².


The external characteristics of the HSR radiators is their visible heating coil, which is installed in a ceramic body. This design shortens the heating up and cooling down time up to 65 % as well as a reduced heat transfer to the wiring space.

HSR high speed radiators are particularly suitable for use in clocked production processes, for frequent tool changes or if the temperature has to drop quickly in case of transfer disruptions, in order to prevent damage to the production plant.

Elstein HSR high speed radiators are available in three designs and cover the power range from 125 W to 1000W



Type, weight, wattage	HSR	122 x 122 mm	220 g	250	400	600	800	1000	W
	HSR/1	245 x 60 mm	220 g	250	400	600	800	1000	W
Operating voltage 230 V	HSR/2	122 x 60 mm.	75 g	125	200	300	400	500	W
Surface rating				16	26	38	51	64,0	kW/m ²
Typical operating temperature				450	670	700	810	860	°C
Maximum permissible temperature				900	900	900	900	900	°C
Wavelength range				2 - 10					µm

Standard design	Thermocouple radiators	Variants
Operating voltage 230 V Ceramic moulding Integrated thermal insulation Leads 85 mm Elstein standard socket Mounting set	Designation T-HSR, T-HSR/1,T-HSR/2 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.

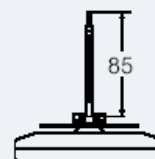
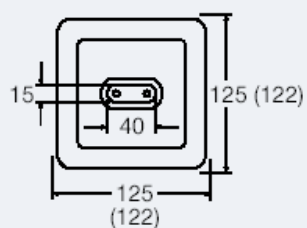
Further information and safety information are given in this document and in the mounting instruction enclosed with each radiator.



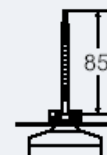
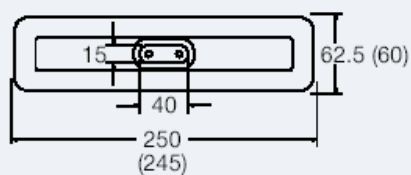
Important: The radiators of the HSR series must be installed and operated in a way, which does not enable touching the heaters (risk of injury due to electric shock).

Mounting dimensions and radiator dimensions () in mm

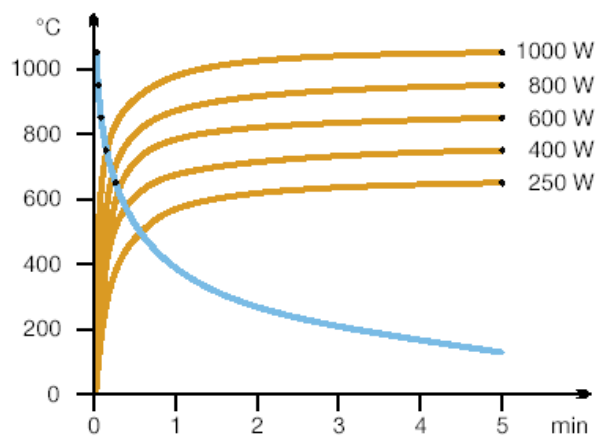
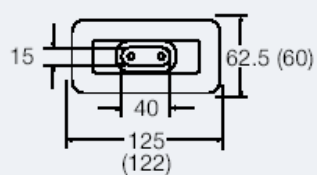
HSR



HSR/1

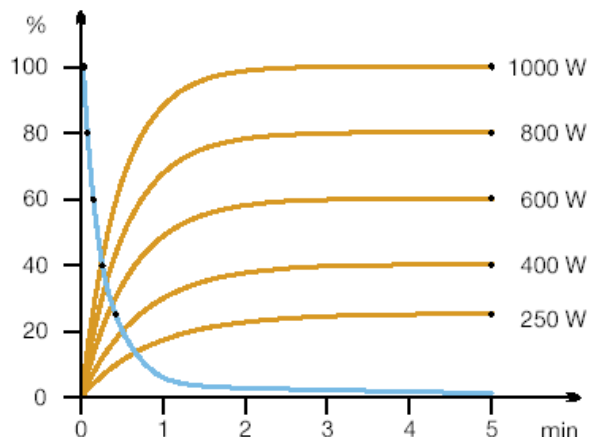


HSR/2



Temperatures at the heating coil

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



Radiant powers

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