



Figure 51: Elstein SFH series

Elstein SFH super flat heaters are ceramic infrared heaters in flat design. They reach operating temperatures up to 800 °C and surface ratings up to 64 kW/m<sup>2</sup>.

The heaters of the SFH series are very suited for applications, which require space-saving installation.

The borders of SFH super flat heaters are used as bearing surface on a metal mounting sheet or reflector. For each heater a corresponding rounded mounting hole is required to place the heaters into them.

When mounting SFH heaters a heat insulation can be added additionally. A temperature resistant insulating material like Elstein THI thermal insulation sheet can be applied on site directly on the back of the heater.

Elstein SFH super flat heaters are available in four designs and cover the power range from 60 W to 1000 W.

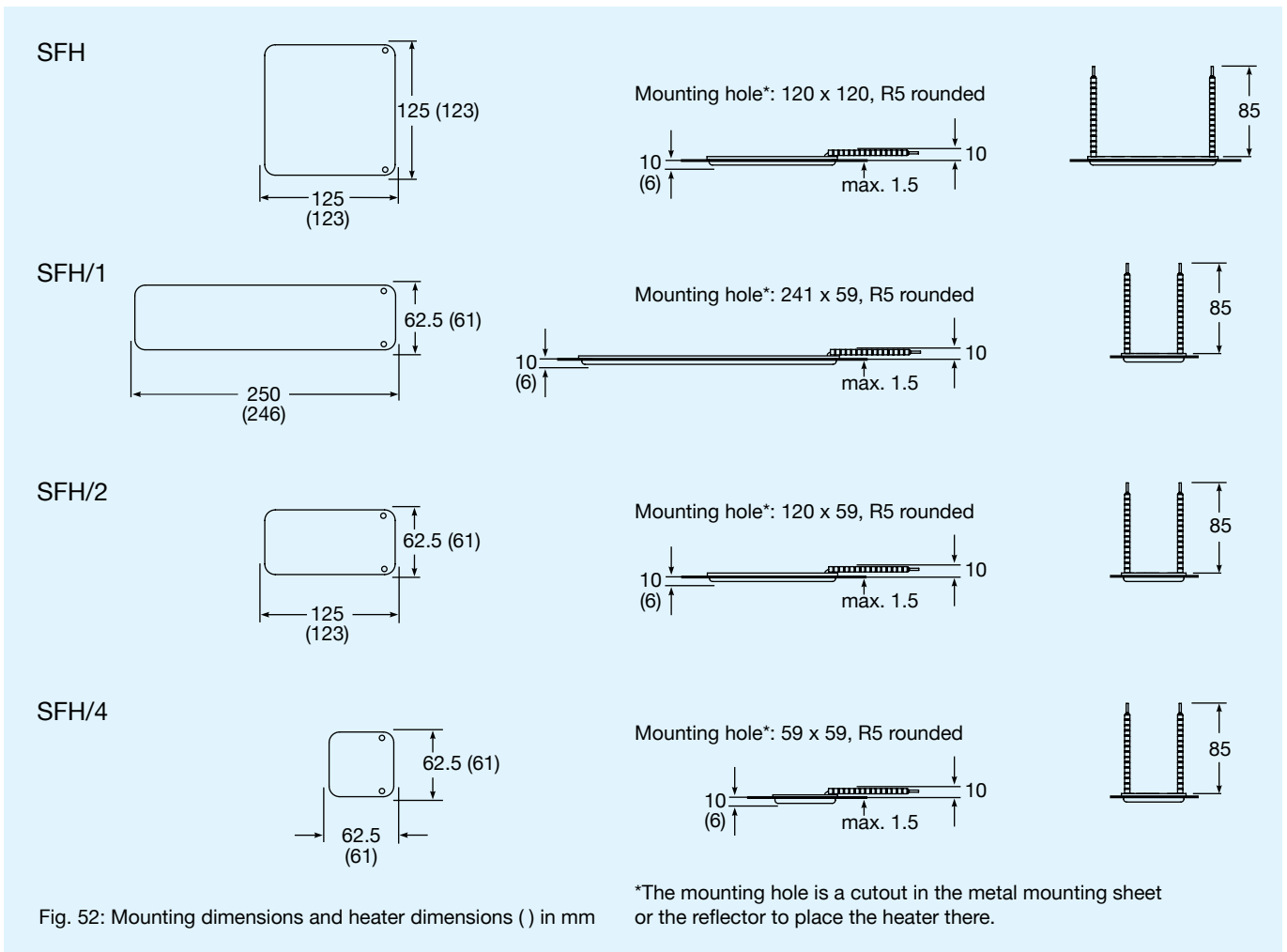
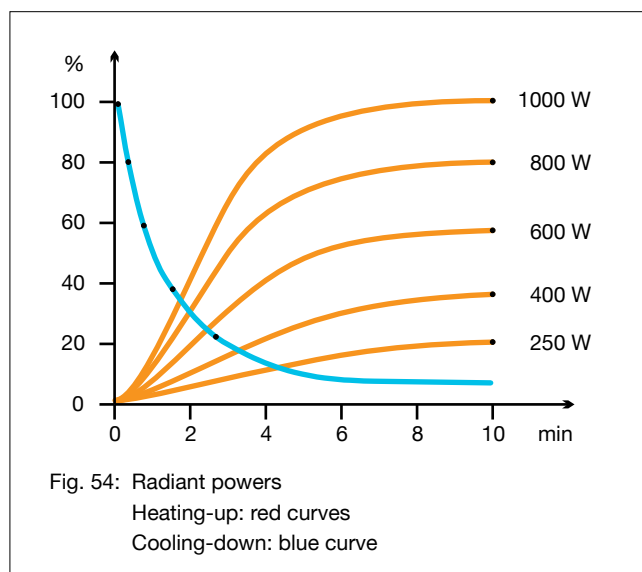
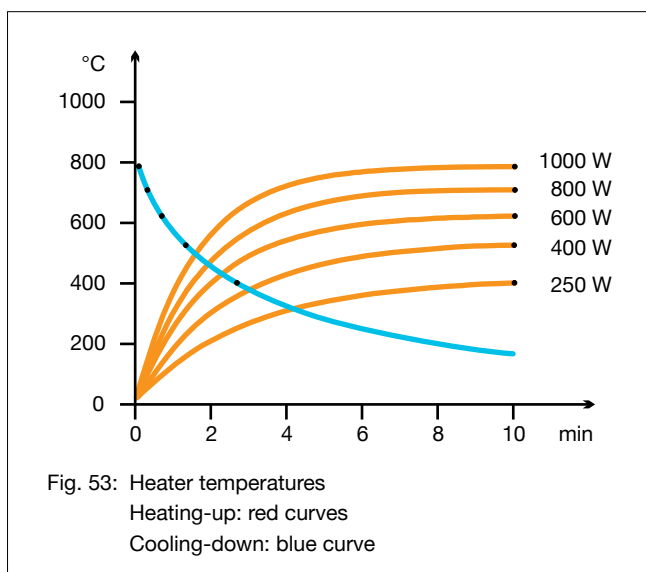




Fig. 52: Mounting dimensions and heater dimensions ( ) in mm



Type, weight, wattage	SFH/1, SFH	160 g	250	400	600	800	1000	W
	SFH/2	85 g	125	200	300	400	500	W
	SFH/4	45 g	60	100	150	200	250	W
Installable surface rating			16.0	25.6	38.4	51.2	64.0	kW/m <sup>2</sup>
Typical operating temperature			to 440	to 540	to 630	to 720	to 800	°C
Maximum permissible temperature			900	900	900	900	900	°C
Wavelength range			2 - 10					µm

Standard design	Thermocouple heaters	Variants
<p>Operating voltage 230 V Ceramic full-pour casting Black glaze Leads 85 mm</p> <p><u>Optional accessory</u> THI Thermal insulation sheet 1000 x 500 x 12 mm</p> 	<p>Designation T-SFH, T-SFH/1, T-SFH/2, T-SFH/4 Integrated thermocouple Type K (NiCr-Ni) TC leads 100 mm</p> 	<p>Special wattages Special voltages Extended leads Leads with ring terminals</p>

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

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.