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ELSTEIN
IRE- 090.37E

MSH CERAMIC RADIATORS MICRO SYSTEM HEATERS (SUPLY 12V)

Elstein MSH micro system heaters are ceramic infrared radiators in small design. They reach operating temperatures up to 860 °C and surface ratings up to 100 kW/m².
MSH micro system heaters are used in applications, which require partial heating or drying of small goods and areas. This occurs for example at heating of printed circuit boards.
MSH radiators are suitable both for individual operation and for configuring groups of radiators to an infrared heating panel.
In this way small heating panels can be built, which can be adapted to the requirements of the heating task or the size as well as contours of the material to be heated regarding heated area, dimensions and the acuteness or the heating zones.
Elstein MSH micro system heaters are available with a power of 55 W 12 V.

Type, weight, wattage	**MSH /20 12V 3 g**	**55**	**W**
Surface rating		100	**KW/m²**
Typical operating temperature		860	**º C**
Maximum permissible temperature		900	**º C**
Wavelength range		2 - 10	**µm**

Standard design

Operating voltage 12 V
Ceramic full-pour casting
Black glaze
Leads 30 mm
Optional accessory
THI Thermal insulation sheet 50 x 50 x 12 mm

Thermocouple radiators

Designation T-MSH/20
Integrated thermocouple
Type K (NiCr-Ni)
TC leads 53 mm

Variants

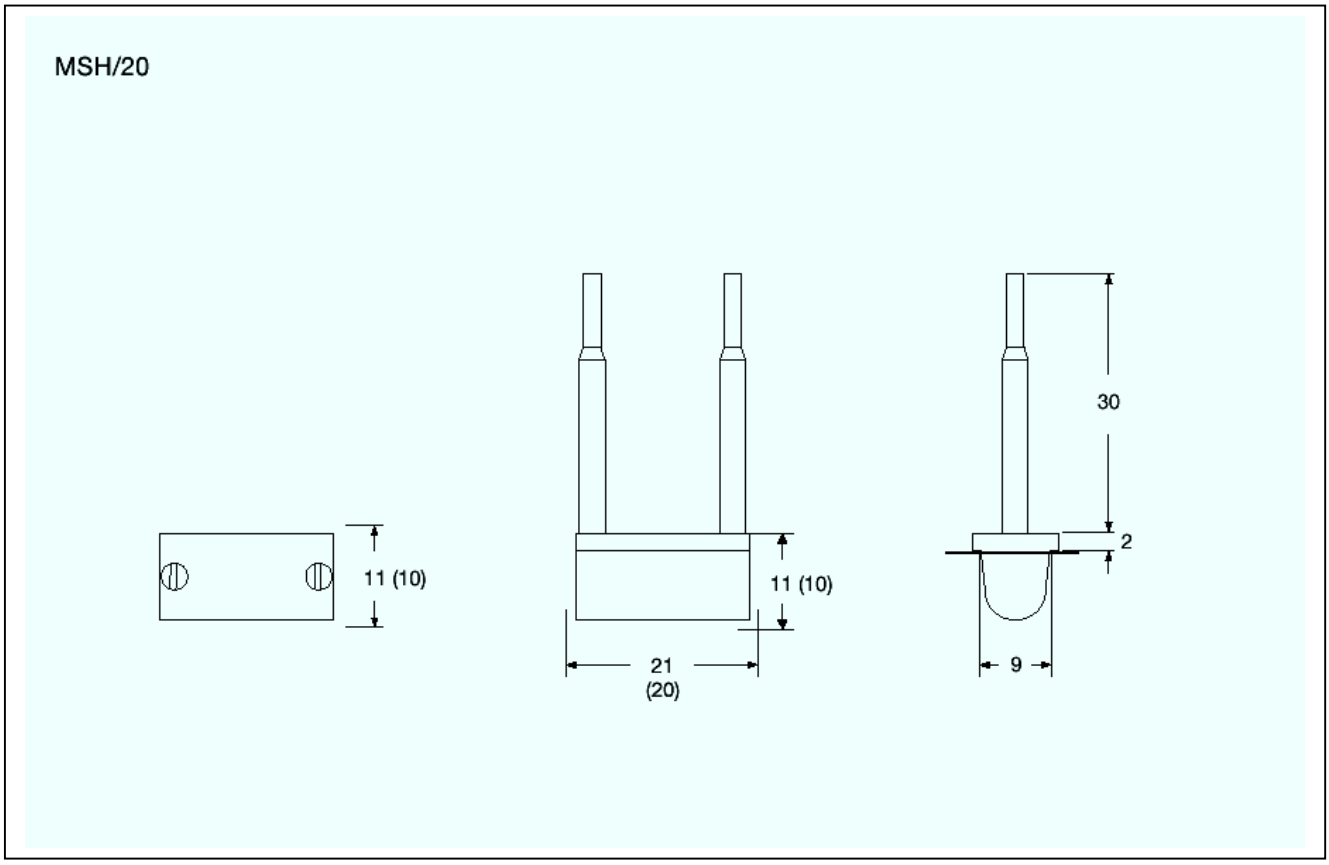
Special wattages
Special voltages
Extended leads
Leads with ring terminals

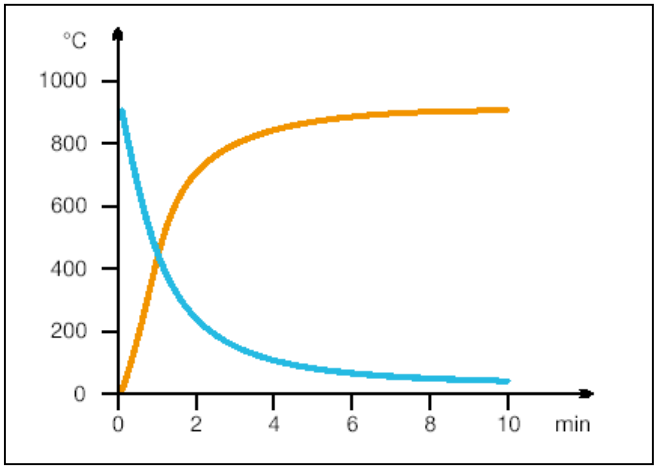
The power can be controlled using thermocouple radiators together with TRD 1 temperature controllers, TSE thyristor switching units and other accessories.
The national safety regulations must be complied with for the respective application, for example, the IEC or EN
standard 60519-1, Safety in electrical heating installations.
Our instructions for mounting, operation and safety must be observed.

APPLICATIONS

- External heating mechanisms.
- Heating thermoplastics.
- Cured adhesives.
- Drying printing industry.
- In laboratories: thawing, evaporation, polymerization, activation ...
- Heating surfaces in pharmaceutical cosmetics.

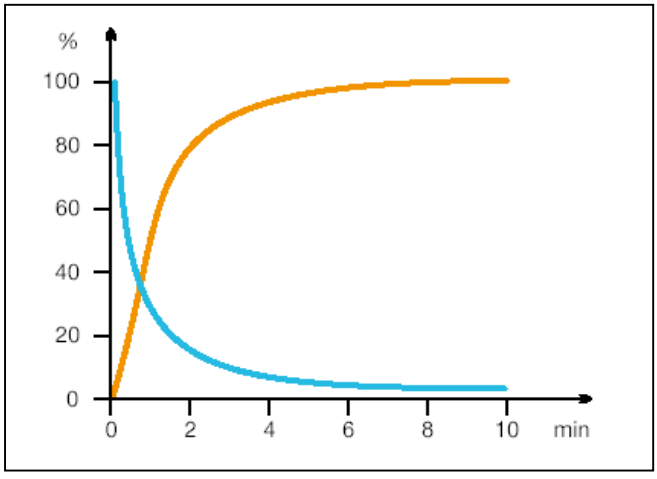
MSH / 20 MOUNTING DIMENSIONS AND RADIATOR DIMENSIONS ( ) IN MM





Radiator temperatures

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



Radiant powers

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