



Infrared radiators

FSR, HTS, IOT, SHTS, QP-1/QP-2

- refractory ceramics with enamel coating ceramic
- quartz tubes with resistance wire
- KANTHAL spiral material
- use of the phenomenon of temperature radiation
- achievement of max. power 30s after switching on
- high corrosion tolerance
- possibility of installing an additional sensor
- low temperature inertia

Ceramic infrared radiators are made of highly flameproof ceramics with ceramic enamel coatings and heating coils from resistance wire inside. Infrared radiators use the electromagnetic radiation phenomena to transfer heat to the objects with lower temperatures. Depending on the heater power, the electromagnetic wave of the heater ranges from 2 μm to 10 μm length.

QP heaters emit electromagnetic radiation with wave lengths ranging from 1,3 μm to 3 μm . Full emissivity is achieved after 30 seconds. Made of quartz glass tubes with a resistance wire coils inside, the QP heaters are stainless steel sheathed.

Application:

- plastic industry
- food industry
- paper and textile industry
- medical technology
- surface technology

TECHNICAL DATA

Type	Power [W]								
	100	150	200	250	300	400	500	650	1000
QP-1 / QP-2	100	150	200	250	300	400	500	650	1000
QP-1/2	50	75	100	125	150	200	250	325	500
QP-1/4	25	38	50	63	75	100	125	163	250

Type	FSR				FSR/2				FSR/4			
	245x60				122x60				60x60			
Dimensions [mm]	245x60				122x60				60x60			
Power of element [W]	250	400	650	1000	125	200	325	500	60	100	200	250
Operating temperature [°C]	400	500	620	730	400	500	620	730	400	500	620	730
Max. operating temperature [°C]	550	600	700	750	550	600	700	750	550	600	700	750
Max. surface loading [W/cm ²]	1,6	2,56	4,16	6,4	1,6	2,56	4,16	6,4	1,6	2,56	4,16	6,4

Type	HTS, HTS/1					HTS/2					HTS/4				
	122x122, 245x60					122x60					60x60				
Dimensions [mm]	122x122, 245x60					122x60					60x60				
Power of element [W]	250	400	600	800	1000	125	200	300	400	500	60	100	150	200	250
Operating temperature [°C]	450	570	700	810	900	450	570	700	810	900	450	570	700	810	900
Max. operating temperature [°C]	700	750	800	850	900	700	750	800	850	900	700	750	800	850	900
Max. surface loading [W/cm ²]	1,6	2,56	3,84	5,12	6,4	1,6	2,56	3,84	5,12	6,4	1,6	2,56	3,84	5,12	6,4

ORDERING

type: _____ X/X-X

FSR: standard 750°C
 HTS: isolated 900°C
 IOT: with bulb thread 530°C
 SHTS: with increased load capacity up to 77 kW/m²
 QP: quartz heater

power [W]

dimensions:
 1: 245 x 60 mm
 2: 122 x 60 mm
 4: 60 x 60 mm

Ordering sample:
 FSR/2-200
 Ceramic infrared standard radiator, length 122 mm, width 60 mm, power 200 W