



- Self-limiting characteristic
- Random mounting position
- Extremely flat design
- ATEX gas and dust application approval
- Wide rated voltage range
- Large, black, anodized convector surface

The extremely flat BARTEC HSF heater plates are mainly used in potentially explosive areas for applications, which require the maintenance of a specific temperature. The use of these heater plates guarantees a maximum degree of operational safety, as temperature fluctuations can be efficiently avoided and, yet, the required minimum temperatures can be maintained. The heater plates reliably protect electrical installations against function failures due to creepage currents and also offer protection against other failures caused by corrosion formation at mechanical system components. The radiators are ready for connection and they are maintenance-free. The application areas of these heaters comprise switch and control cabinets, transmitter protection boxes, measuring equipment, analyzer cabinets for sample preparation, and many more.

Construction

The HSF heater plates are based on a PTC (positive temperature coefficient) heating element. The special design of the aluminum profile facilitates an even temperature distribution in the interior of housings and cabinets. For an optimum free convection, the fins should not be covered.

Function

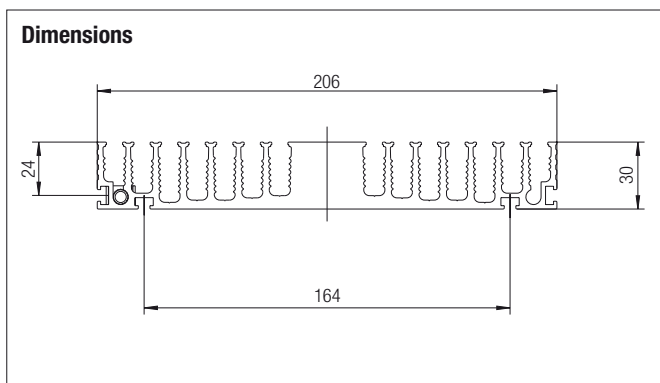
The PTC heating elements increase their electrical resistance as the temperatures rises. A high resistance results in a low heating output. At high temperatures, the heating capacity is reduced to a minimum heating output, which ensures that the limit temperature of the respective temperature class cannot be exceeded. Moreover, these heating elements regulate their resistance in dependence of the voltage. Therefore, the HSF heating plates can be applied in a wide supply voltage range. Should you require further information on the detailed layout of the heating capacity in holding temperature applications, please contact us.

Explosion protection

Marking	⊕ II 2G Ex db IIC T4, T3 ⊕ II 2D Ex tb IIIC T135 °C/T200 °C
Certification	PTB 03 ATEX 1221 X
Other approvals and certificates, see www.bartec.de	

Technical data

Protection class	IP 68, NEMA 4X
Application temperature range	-60 °C to +180 °C
Ambient temperature range	-60 °C to +60 °C
Rated voltage	AC/DC 120 to 240 V
Nominal power	50, 100, 120, 200 and 300 W (at 0 °C application temperature)
Connection	Hose line EWKF 3 x 1.5 mm ² ; Ø 8.1 mm
Mounting position	random
Material	black, anodized aluminum, resistant to sea water



Ordering information

Designation	Nominal power	Cable length	Weight (netto)	Dimensions in mm (L x W x H)	Temperature class	Order no.
HSF 50 T4-1	50 W	1 m	0.9 kg	105 x 206 x 30	T4	27-2C54-7054110Z1000
HSF 50-T4-5	50 W	5 m	1.3 kg	105 x 206 x 30	T4	27-2C54-7054110Z5000
HSF 100-T3-1	100 W	1 m	0.9 kg	105 x 206 x 30	T3	27-2A53-7104110Z1000
HSF 100-T3-5	100 W	5 m	1.3 kg	105 x 206 x 30	T3	27-2A53-7104110Z5000
HSF 120-T4-1	120 W	1 m	1.8 kg	225 x 206 x 30	T4	27-2B54-7124150Z1000
HSF 120-T4-5	120 W	5 m	2.2 kg	225 x 206 x 30	T4	27-2B54-7124150Z5000
HSF 200-T3-1	200 W	1 m	1.8 kg	225 x 206 x 30	T3	27-2B53-7204150Z1000
HSF 200-T3-5	200 W	5 m	2.2 kg	225 x 206 x 30	T3	27-2B53-7204150Z5000
HSF 300-T3-1	300 W	1 m	2.5 kg	325 x 206 x 30	T3	27-2J53-7304170Z1000
HSF 300-T3-5	300 W	5 m	2.9 kg	325 x 206 x 30	T3	27-2J53-7304170Z5000

Other temperature classes (T5, T6) on request. Technical data subject to change without notice.