

Radiators HSF



- Self-limiting characteristic
- Random mounting position
- Extremely flat design
- 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. Places of use include switch and control cabinets, transmitter protective boxes, measuring equipment, analytical cabinets for sample preparation etc..

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.

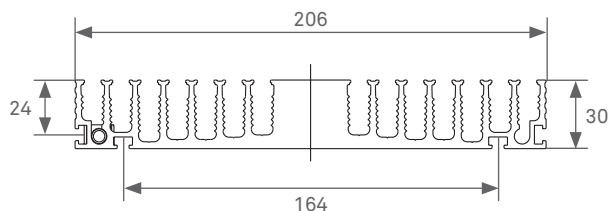
Explosion protection

Marking	Ⓜ II 2G Ex db IIC T4, T3 Gb Ⓜ II 2D Ex tb IIIIC T135 °C, T200°C Db
Certification	PTB 03 ATEX 1 221 X IECEx PTB 14.0019X
	Other approvals and certificates, see bartec.com

Technical data

Nominal voltage	AC/DC 120 to 240 V
Service temperature range	-60 °C to +180 °C
Ambient temperature range	-60 °C to +60 °C
Connection	Flexible cord EWKF 3 x 1.5 mm ² Ø 8.1 mm; length 5 m
Mounting position	random
Material	black anodized aluminum resistant to sea water

Dimensions HSF Series



Ordering information

Heating plate with 5m supply cord

Type	Nominal power*	T-class	Dimensions in mm (L x W x H)	Order no.
HSF 50-T4-5	50 W	T4	105 x 206 x 30	27-2C54-7054110Z5000
HSF 100-T3-5	100 W	T3	105 x 206 x 30	27-2A53-7104110Z5000
HSF 100-T4-5	100 W	T4	225 x 206 x 30	27-2B54-7104150Z5000
HSF 200-T3-5	200 W	T3	225 x 206 x 30	27-2B53-7204150Z5000
HSF 300-T3-5	300 W	T3	325 x 206 x 30	27-2J53-7304170Z5000

* determined at 0 °C ambient temperature under laboratory conditions

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