FX Range of Self-Regulating Flameproof Enclosure Heaters

EXHEAT Industrial's extended range of FX enclosure heaters provides an array of enclosure/cabinet heating solutions, and are available in both fixed duty and self-regulating variants. EXHEAT Industrial can also manufacture bespoke self-regulating designs to suit any space restraint or duty requirement. Please enquire about the FXS range for more information.

The FX range also includes the FXT control thermostats, available in both inline or remote designs. These thermostats provide frost protection, condensation prevention and temperature maintenance, and both heaters and thermostats are certified for use in hazardous areas where the atmosphere is classified as Zone 1 or 2 (Gas groups IIA, IIB, IIC) and Zone 21 or 22 (Dust groups IIIA, IIIB, IIIC).

CertificationATEX/IECEx/UKEX Image II 2 G D Ex db IIC T4 to T2 Gb Ex tb IIIC T135°C to T300°C DbCCC Ex d IIC T4 to T2 Gb Ex tD A21 IP66 T135°C to T300°CCU TR (EAC) CU-TR.012/2011 CERTIFIED 1 Ex db IIC T4T2 Gb X Ex tb IIIC T135°CT300°C Db XCSA: Class I Div 2, Groups A, B, C, D T4T2 Class II Div 2, Groups E, F, G T4T2 Class I Zone 1, AEx db IIC T135°CT300°C DbAmbient-60°C to +180°C: T3 heaters -60°C to +130°C: T4 heaters Minimum of -50°C with the FXT thermostatCabling3m standard (up to 10m available on request)IP RatingIP66Mounting kit FXH-SR: Directly bolted to enclosure or bracket (not supplied)Output50 to 550WProtectionHeater: Flameproof Thermostat: Flameproof or encapsulatedT ClassT4 (135°C) or T3 (200°C)Voltage110 to 265VAC		
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Thermostat: Flameproof or encapsulated T Class T4 (135°C) or T3 (200°C)	Output	50 to 550W
	Protection	
Voltage 110 to 265VAC	T Class	T4 (135°C) or T3 (200°C)
	Voltage	110 to 265VAC

Generators

Manifolds

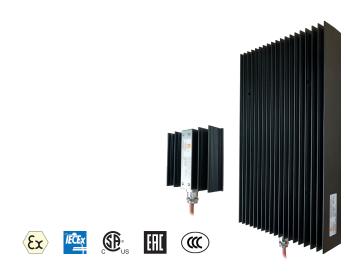
Motor enclosures

Valve blocks

Instrumentation cabinets

TYPICAL APPLICATIONS

- Condensation prevention
- Control / monitoring panels
- Control valve housings
- Fire hose cabinets
- Frost protection
- Gas analyzers
- Rev 1.7



FXB-SR AND FXH-SR SELF-REGULATING FLAMEPROOF ENCLOSURE HEATERS

The self-regulating range of FX enclosure heaters utilise a hard anodised, extruded aluminium profile, making them suitable for offshore applications, and include a self-regulating, cartridge type heating element in order to provide a controlled heating solution for small and medium sized enclosures.

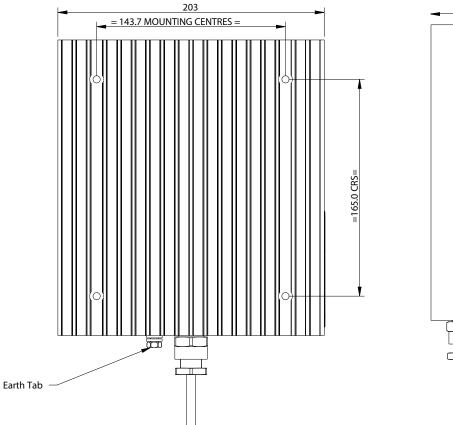
Self-regulating heating elements produce a variable power output based on the ambient temperature, which removes the necessity for a thermostat. EXHEAT Industrial's FX selfregulating enclosure/cabinet heaters have been certified to operate in an ambient temperature range of -60°C to +180°C for T3 applications and -60°C to +130°C for T4 applications.

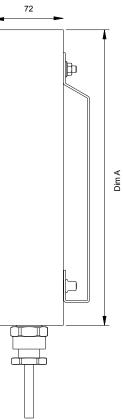
The FXB-SR heaters are designed with a double-sided finned profile, but unlike the fixed duty heaters, may be installed in any orientation (although vertically will provide the greatest power output). These heaters are supplied with a single mounting solution that can be used to affix the heater either directly to an enclosure or to a rail within one. The FXH-SR heaters have one flat side which can allow flexibility, they can be mounted in any orientation and directly to components that require heating.

Due to the nature of self-regulating heating solutions, these heaters cannot exceed their ambient temperature limits under their own power; if there are other sources of heat within the enclosure, it may be necessary to include an integral inline thermostat to safely de-energise the heater when the ambient temperature limit is reached.

Please speak to our EXHEAT Industrial representatives in order to review your requirements and calculate the correct duty necessary for your installation.







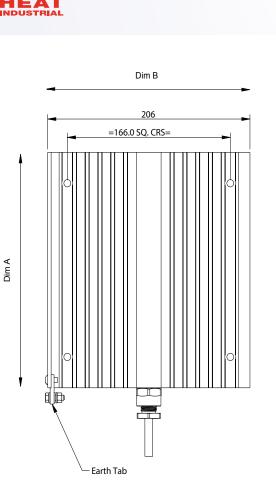
FXB-SR Self-Regulating Double-Finned Enclosure/Cabinet Heaters							
Nominal Power *	Voltage [†]	T Class	Ambient	Dim A	Weight [§]	Stock	
220W	110-265V	Т3	180°C	225mm	3.2kg	Yes	
220W	110-265V	T4	130°C	225mm	3.2kg	Yes	
350W	110-265V	Т3	180°C	325mm	4.5kg	Yes	
400W	110-265V	Т3	180°C	325mm	4.5kg	Yes	
400W	110-265V	T4	130°C	325mm	4.5kg	Yes	
550W	110-265V	Т3	180°C	325mm	4.5kg	Yes	

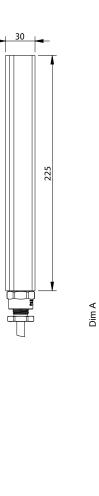
Power output will vary based on ambient conditions, placement, orientation, mounting and enclosure environment

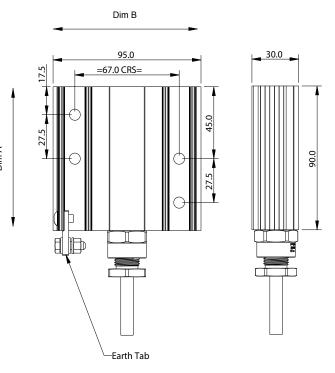
+/-0% voltage tolerance Weight including 3m cable † §

Refer to IOM for recommended mounting distance between heater and enclosure wall.









FXH-SR Self-R	egulating 'Low Profile	e' Enclosure/Cabir	net Heaters				
Nominal Power *	Voltage [†]	T Class	Ambient	Dim A	Dim B	Weight [§]	Stock
50W	110-265V	T4	130°C	90mm	95mm	0.7kg	Yes
100W	110-265V	Т3	180°C	90mm	95mm	0.7kg	Yes
120W	110-265V	T4	130°C	225mm	206mm	2.1kg	Yes
200W	110-265V	Т3	180°C	225mm	206mm	2.1kg	Yes
300W	110-265V	Т3	180°C	225mm	206mm	2.1kg	Yes

* Power output will vary based on ambient conditions, placement, orientation, mounting and enclosure

environment +/-0% voltage tolerance

§ Weight including 3m cable

Refer to IOM for recommended mounting distance between heater and enclosure wall.



ADDITIONAL ACCESSORIES

Extended Cable

FX heaters are supplied with 3m of cable as standard. Lengths up to 10m are available upon request.

Bracket Kit

Bracket mounting kits (stock code: S0960201650001) are available for the FXH series. (225mm only)

Thermostat

EXHEAT Industrial offers optional FXT thermostats that can be supplied fitted to the heaters' supply cable. Please speak to our sales representatives for more information on the range of available thermostats.

FXT-M Encap	sulated Inline Thermostat					
Model	Open / Close Temperature (+/-3°C)	Stock Code	Voltage	Max Current	T Class	Max Ambient
FXT-M-5	16°C / 5°C	S760400500			T6 T5	60°C 80°C
FXT-M-20	26°C / 15°C	S760402000	1	6.0 A 3.3 A		
FXT-M-30	37°C / 26°C	S760403000	0-277V			
FXT-M-40	53°C / 42°C	S760404000	-	4.8 A		
FXT-M-60	69°C / 58°C	S760462000	-			
FXT-DI and FX	T-DR Flameproof Thermostat		1			
Model	Open / Close Temperature (+/-3°C)	Stock Code	Voltage	Max Current	T Class	Max Ambient
FXT-DI-5 FXT-DR-5	16°C / 5°C	S760200500 S760300500	0-277V	9.0 A	T6 T5 T4 T3	80°C 95°C 130°C 195°C
FXT-DI-20 FXT-DR-20	26°C / 15°C	S760202000 S760302000				
FXT-DI-30 FXT-DR-30	37°C / 26°C	S760203000 S760303000				
FXT-DI-40 FXT-DR-40	53°C / 42°C	S760204000 S760304000				
FXT-DI-60 FXT-DR-60	69°C / 58°C	S760206000 S760308000				
FXT-DR-80	92°C / 81°C		1			

PRODUCT SELECTOR

Heater Model	Heater Output (W)	Heater Voltage (VAC)	Thermostat Type (Optional)	Thermostat Set Point (°C)
• FXB-SR	 220 350 400 550 	• 110-265	DI DR M N [†]	• 5 • 10 • 20 • 40 §
• FXH-SR	• 50			 60 80 (only for DR)
	 100 120 200 			
	• 300			

Thermostat not required. Client to ensure that the maximum permissible ambient temperature is not exceeded.

[§] 40°C set point not applicable for FXT-M models.

Example (FXH-SR-200)

FXH-SR 'low profile' enclosure heater, 200W output, 240VAC nominal voltage, optional thermostat