

FX Range of Fixed Duty Flameproof Enclosure / Cabinet Heaters

EXHEAT Industrial's extended range of FX enclosure / cabinet 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).

Certification	ATEX / IECEx line II 2 G D Ex db IIC T4 to T3 Gb Ex tb IIIC T135°C to T200°C Db
	CU TR (EAC) CU-TR.012/2011 CERTIFIED 1 Ex db IIC T4T3 Gb X Ex tb IIIC T135°CT200°C Db X
	CSA : Class I Div 2, Groups A, B, C, D T4T3 Class II Div 2, Groups E, F, G T4T3 Class I Zone 1, AEx db IIC T4T3 Gb Zone 21, AEx tb IIIC T135°CT200°C Db
Ambient	-60°C with options up to +80°C
Cabling	3m standard (up to 10m available on request)
IP Rating	IP66
Mounting	FXB-FD: Wall or rail mounted vertically using the supplied mounting kit FXH-FD: Directly bolted to the enclosure or a bracket (not supplied)
Output	45 to 500W
Protection	Heater: Flameproof Thermostat: Encapsulated as standard, with flameproof options available
T Class	T4 (135°C) and T3 (200°C)
Voltage	110 to 277VAC

TYPICAL APPLICATIONS

Condensation prevention Control / monitoring panels Fire hose cabinets Generators Manifolds Acoustic enclosures Control valve housings Frost protection Instrumentation cabinets Motor enclosures Valve blocks



FXB-FD AND FXH-FD FIXED DUTY FLAMEPROOF ENCLOSURE / CABINET HEATERS

The fixed duty range of FX enclosure / cabinet heaters utilise a hard anodised, extruded aluminium profile, making them suitable for offshore applications, and include a fixed duty, cartridge type heating element in order to provide a powerful heating solution for small and medium sized enclosures / cabinets.

Fixed duty heating elements produce a constant power output regardless of the ambient temperature, giving a specific temperature rise above the ambient. EXHEAT Industrial's FX fixed duty enclosure / cabinet heaters have been certified to operate in an ambient temperature range of -60°C to +40°C for T4 and T3 heaters, and -60°C to +80°C for some T3 heaters (see the tables on page 2).

The FXB-FD heaters are designed with a double-sided finned profile which may only be installed vertically to provide the greatest power output within the range. 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-FD heaters have one flat side which can allow flexibility, they can be mounted horizontally or vertically to suit possible space constraints.

Due to the nature of fixed duty heating solutions, these heaters must not be allowed to exceed their temperature limits. All FX Fixed Duty Heaters are supplied with an integral FXT-M Encapsulated Thermostat as standard, to safely de-energise the heater when a certain ambient temperature is reached.

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







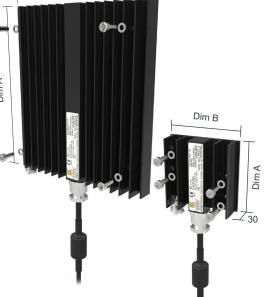
Power	Voltage *	T Class	Ambient	Dim A	Weight [†]	Stock
100W	110-120V 220-277V	T4 T3	40°C 80°C	225mm	3.2kg	Yes
200W	110-120V 220-240V	T4 T3	40°C 80°C	225mm	3.2kg	Yes
200W	254V	Т3	40°C	225mm	3.2kg	Yes
200W	254V 277V	T4 T3	40°C 80°C	225mm	3.2kg	No
250W	110-120V 220-240V	T4 T3	40°C 80°C	325mm	4.5kg	Yes
250W	254V	Т3	40°C	325mm	4.5kg	Yes
250W	254V 277V	T4 T3	40°C 80°C	325mm	4.5kg	No
350W	110-120V 220-240V	Т3	40°C	225mm	3.2kg	Yes
350W	254V 277V	Т3	40°C	225mm	3.2kg	No
400W	110-120V 220-254V	Т3	40°C	325mm	4.5kg	Yes
400W	277V	Т3	40°C	325mm	4.5kg	No
500W	110-120V 220-240V	Т3	40°C	325mm	4.5kg	Yes
500W	254V 277V	Т3	40°C	325mm	4.5kg	No

* Heaters are based on a nominal 120V and 240V with +5/-10% voltage tolerance on select models
* Weight including 3m cable



Power	Voltage *	T Class	Ambient	Dim A	Dim B	Weight [†]	Stock
45W	110-120V 220-240V	T4 T3	40°C 80°C	90mm	95mm	0.7kg	Yes
45W	254V 277V	Т3	40°C	90mm	95mm	0.7kg	Yes
45W	254V 277V	T4 T3	40°C 80°C	90mm	95mm	0.7kg	No
85W	110-120V 220-240V	Т3	40°C	90mm	95mm	0.7kg	Yes
85W	254V 277V	Т3	40°C	90mm	95mm	0.7kg	No
100W	110-120V 220-277V	T4 T3	40°C 80°C	225mm	206mm	2.1kg	Yes
200W	110-120V 220-240V	Т3	40°C	225mm	206mm	2.1kg	Yes
200W	254V 277V	Т3	40°C	225mm	206mm	2.1kg	No

Heaters are based on a nominal 120V and 240V with +5/-10% voltage tolerance on select models
 Weight including 3m cable





ADDITIONAL ACCESSORIES

Extended Cable

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

Thermostat

EXHEAT Industrial can integrate the following FXT thermostats in the heater's supply cable. Please speak to our sales representatives for more information on the range of available thermostats.

Model	Open / Close Temperature (+/-3°C)	Voltage	Max Current	T Class	Max Ambient
FXT-M-5	16°C / 5°C		6.0 A		
FXT-M-20	26°C / 15°C	110-120V 220-240V 254-277V	3.3 A	Т6	60°C
FXT-M-40	37°C / 26°C		4.8 A	Τ5	80°C
FXT-M-60	69°C / 58°C	204-2110	9.0 A		
FXT-DI Flame	proof Inline Thermostat (Optional)		· · ·	· ·	
Model	Open / Close Temperature (+/-3°C)	Voltage	Max Current	T Class	Max Ambient
FXT-DI-5	16°C / 5°C	110-277V	9.0 A		
FXT-DI-20	26°C / 15°C			Т6	80°C
FXT-DI-40	37°C / 26°C			T5	95°C
FXT-DI-60	69°C / 58°C			T4	130°C
FXT-DI-80	92°C / 81°C	_		T3	180°C *
FXT-DR Flam	eproof Remote Thermostat (Optional)			I	
Model	Open / Close Temperature (+/-3°C)	Voltage	Max Current	T Class	Max Ambient
FXT-DR-5	16°C / 5°C				
FXT-DR-20	26°C / 15°C	110-277V		Т6	80°C
FXT-DR-40	37°C / 26°C		9.0 A	T5	95°C
FXT-DR-60	69-130°C / 58°C			T4	130°C
FXT-DR-60	92°C / 81°C	_		Т3	180°C *

* Available up to a maximum ambient of +195°C upon request.

PRODUCT SELECTOR

Heater Model	Heater Output (W)	Heater Voltage (VAC)	Thermostat Type	Thermostat Set Point (°C)
• FXB-FD	 100 200 250 350 400 500 	 110 120 220 230 240 254 	 DI DR M N[†] 	• 5 • 20 • 40 • 60 • 80 \$
• FXH-FD	 45 85 100 200 	• 277		

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

[§] 80°C set point not applicable for FXT-M models.

Example (FXB-FD-100-110-DR-5)

FXB-FD fixed duty double-finned enclosure / cabinet heater, 100W output, 110 voltage AC, with FXT-DR flameproof remote thermostat at 5°C pre-set temperature trigger point