

FP Range of Hazardous Area Ex d Certified Immersion Heaters

The FP electric heater comprises a large range of process immersion heaters, certified for use in hazardous areas and are custom built to meet client specifications.

FEATURES

Certified to ATEX or IECEx standards

Terminal box is certified weatherproof to IP66 as well as Type 4 or 4X standards

Temperature classifications T1 to T6

Up to 1400kW

Elements are specially sealed to prevent moisture ingress

Elements are individually replaceable on site without the need for special tools

Withdrawable type elements are available to facilitate replacement without draining the vessel

Suitable and certified for use in high ambient temperatures (e.g. Middle East)

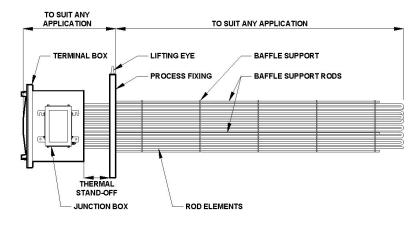
Anti-condensation heaters fitted, if required

TYPICAL APPLICATIONS

- Crude oil / hydrocarbon liquids
- Molecular sieve regeneration
- Glycol (TEG & MEG) reboilers
- Heat transfer oils
- Industrial gases
- Tank heating
- Natural gas
- Heating medium
- Fuel gas
- Water
- Fuel oils







Nominal Flange Size		kW LOAD with M	kW LOAD with Maximum Immersed Length of 3665 mm		
Inch	mm	1 w/sq cm	2.5 w/sq	7.44 w/sq cm	
6	150	30	80	200	
8	200	60	160	400	
10	250	100	260	650	
12	300	150	380	950	
14	350	180	460	1150	
16	400	245	620	1550	
18	450	325	800	2000	
20	500	400	980	2500	
24	600	585	1460	3650	
30	750	1110	2780	5000	
36	900	1610	4040	n/a	
40	1000	1995	5000	n/a	

Certification	ATEX / IECEx 🚯 II 2 G/D Ex d IIC T1 to T6 Gb Ex tb IIIC T85 to T450°C Db IP66 EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 CSA (CEC/NEC) Class I, Div 1, Groups A, B, C, D; T1 to T6, Enclosure Type 4 or 4X CSA (CEC) Ex d IIC; T1 to T6 Gb, IP66 (CAN) CSA (NEC) Class I, Zone 1, AEx d IIC; T1 to T6 Gb, IP66 (USA) CU TR (formerly GOST), CNEx, CCOE, Inmetro, KGS				
Terminal Box	Manufactured from low temperature carbon steel or stainless steel throughout, with screwed-on lid to suit the hazardous environment				
Elements	Manufactured from 80/20 NiCr resistance wire with high purity compacted magnesium oxide powder she within corrosion / erosion resistant tube, eg:				
	Incoloy 800/825 316/316L stainless steel	Inconel 600/625 321 stainless steel	Titanium Monel		
Internals	Elements are supported in a baffle type support assembly to prevent vibration and element deformation				
Voltage	Suitable for voltages up to 690V (600V CAN and USA)				