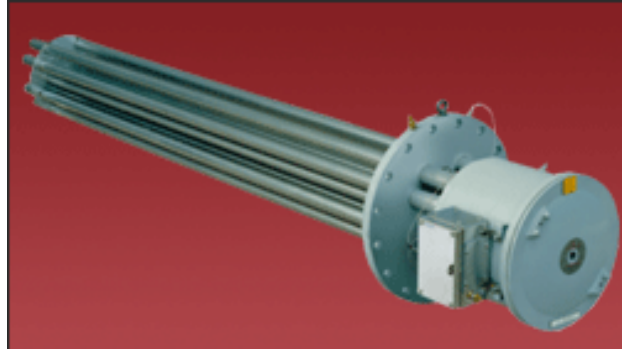


A.S.P. Electro-Technology Ltd INFORMATION SHEET

'FP/BFP' Flameproof Removable Core Heaters

The 'FP/BFP' removable core type flameproof electric heaters comprise a large range of process immersion heaters, certified for use in a Zone 1 or Class, Div 1 Hazardous Area that allow elements to be replaced without draining the process vessel.



Features:

- Up to 1000kw larger ratings achieved by a combination of enclosures.
- Certified to meet the ATEX Directive 94/9/EC. Certified EEx'd', Zone 1, Gas Group II A, B, C. Certified Class1, Div 1, Gas Group B, C, D. ATEX Ex II 2G/D IP65, EExd IIC T6 to T1
- CENELEC, Australian Standards, CSA, FM.
- Terminal box is certified weatherproof to IP66/IP67 or NEMA 7.
- Temperature classifications T1-T6.
- Ceramic core type elements are not subject to problems with moisture ingress.
- Removable core type elements to facilitate replacement without draining the vessel. (Simply open the terminal box).
- Elements are individually replaceable on site without the need for special tools.
- Elements are individually replaceable on site without the need for special tools.
- Suitable and certified for use in high ambient

Typical Application:

- Glycol (TEG & MEG) Reboilers
- Butane / Propane vaporisers
- Crude Oil
- Fuel Oils
- Hydrocarbon liquids
- Synthetic Oils
- Fresh Water
- Sea Water
- Heating Medium

Elements:

Ceramic Core Type
Manufactured from 80/20 NiCr resistance wire inside high quality ceramic formers and then inserted into tubular pockets manufactured from various materials e.g. Carbon Steel, Stainless Steel.

Note! This type of unit allows for the element to be removed and replaced without draining the process, by simply removing the terminal box lid.

Internals:

Elements are supported in a simple baffle type support assembly to prevent vibration and element deformation.

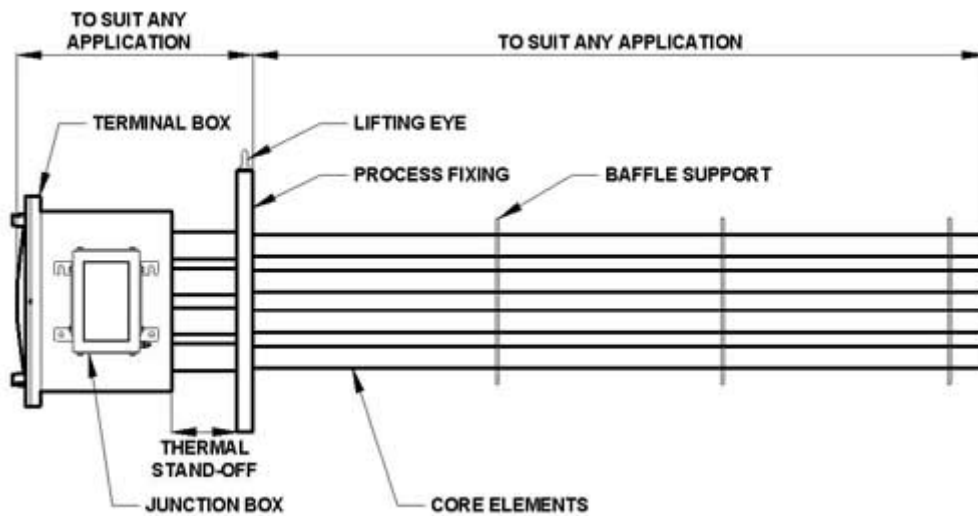
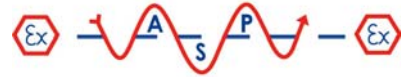
Terminal Box:

Manufactured from low temperature carbon steel or gas group IIC Stainless Steel 316L throughout with screwed or flanged lid to suit the hazardous environment.

Voltage:

Suitable for voltages up to 690v.





Indicative Flange Sizes in Relation to Kilowatt and Heat Flux

W/cm ²							kW							
0.7	1	1.5	2	2.5	3	3.5	0.7	1	1.5	2	2.5	3	3.5	
16	12	10	8	8	8	8	25	8	8	8	*	*	*	
18	16	14	12	10	10	8	50	12	12	10	8	*	*	*
*	18	16	16	14	12	12	75	14	12	12	10	8	*	*
*	*	*	16	16	12	10	100	18	16	12	12	10	8	*
*	*	*	18	16	16	16	125	18	16	14	12	12	10	8
*	*	*	*	18	16	16	150	18	18	16	14	12	12	10
*	*	*	*	18	18	16	175	*	18	16	16	12	12	10
*	*	*	*	*	18	18	200	*	18	16	16	14	12	12
*	*	*	*	*	*	18	225	*	*	18	16	16	14	12
*	*	*	*	*	*	*	250	*	*	18	16	16	14	12

Flange sizes for 1750mm Immersed/208mm Inactive

Flange sizes for 4000mm Immersed/208mm Inactive

Supplied by:

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This publication is not intended to form the basis of a contract. All the above specifications, dimensions, weights, tolerances etc are typical and may be varied or changed by the manufacturer without prior notice. A.S.P. Electro-Technology accept no liability for consequence of use.