

MFH 'The Bulldog' Portable Fan Heater

The MFH Portable Fan Heater is the world's first truly portable hazardous area fan assisted heater.

The Bulldog combines efficient design with simple functionality to provide a portable heating solution for use in hazardous environments where the atmosphere is classified as Zone 1 or 2 (IIA, IIB and H2). Certified to the new BS EN ISO 80079-36 and BS EN ISO 80079-37 standards for constructional safety, The Bulldog comes ready to 'plug and play' with the option of fitting a plug, or hard wiring to an isolator unit.

The casing is moulded from a steel reinforced polymer which makes The Bulldog tough and durable. Using adjustable feet, the heater can be angled to allow for flexibility in its positioning and, with its compact design, can be easily stored or transported.

The Bulldog can be used with or without ducting to provide a warm stream of air that can be felt metres away, even in ambient temperatures as low as -40°C and up to +40°C. The heater can optionally be fitted with an additional safety device above and beyond the requirements of the certification.

The Bulldog is patent pending, application number 1614657.3



FEATURES

Compact and rigid housing suitable for onshore and offshore usage for typical applications such as offshore installations, gas installations, aircraft hangars, munition stores, spray shops, battery stores, fuel servicing areas, portable washdown heaters and many more

Portable and lightweight, allowing for single user manipulation / operation. Can be supplied on a long flying lead to get heat where you need it

Up to 6kW. The heater can be directed at an engineer working in a larger space, or at the same time, warm a mid-sized room to a comfortable operating temperature for all within

The Bulldog's design increases efficiency, providing a warmer flow of air for the operator at up to 5m

Suitable for ambient temperatures as low as -40°C and up to +40°C

Available in T3 and T4 temperature classes



Certification

ATEX

Ⓜ II 2 G D Ex h
Ex db eb IIB + H2 T3 to T4 Gb
Ex tb IIIC T200°C to T135°C Db

IECEX

Ex db eb IIB + H2 T3 to T4 Gb
Ex tb IIIC T200°C to T135°C Db

Main Materials

Casing: PA66 30% with EMI shielding
Impeller: PA66 30% with EMI shielding with epoxy coated aluminium hub
Ex d Enclosure: Anodised extruded aluminium
Ex e Enclosure: Stainless steel
Motor Housing: Epoxy coated aluminium

Mounting

Adjustable feet at each corner allow for a stable standing on uneven surfaces

Voltage

Single phase 110V to 277V, three phase 380V to 690V 50/60Hz

Weight

25kg, excluding cable and any optional components

Element

Finned stainless steel tubular elements

Dimensions

Length 475mm, width 470mm, height 530mm

Ingress Protection

IP65

Patent

Patent pending, application number 1614657.3

Performance Data	At 50Hz	At 60Hz
Air Velocity	4.8m/s	5.0m/s
Fan Speed	1380min-1	1460min-1
Motor Rating	0.09kW	0.09kW
Sound Pressure	65dB	68dB
Air Throw	8.8m	9.4m
Face Velocity	3.6m/s	4.3m/s

Model	Voltage (V)	Phase	T Class	Nominal Output (kW)	Max Current (A) *
MFH-5.5-220	220	1	T3	5.5	25.6
MFH-6-230	230	1	T3	6	26.7
MFH-5.5-240	240	1	T3	5.5	23.5
MFH-6-254	254	1	T3	6	24.2
MFH-6-277	277	1	T3	6	22.3
MFH-5.5-380	380	3	T3	5.5	9.0
MFH-6-400	400	3	T3	6	9.3
MFH-5.5-415	415	3	T3	5.5	8.3
MFH-6-440	440	3	T3	6	8.5
MFH-6-480	480	3	T3	6	7.8
MFH-6-600	600	3	T3	6	6.4
MFH-6-690	690	3	T3	6	5.6
MFH-2.5-110	110	1	T4	2.5	23.3
MFH-3-120	120	1	T4	3	25.6
MFH-2.75-220	220	1	T4	2.75	13.1
MFH-3-230	230	1	T4	3	13.6
MFH-2.75-240	240	1	T4	2.75	12.1
MFH-3-254	254	1	T4	3	12.4
MFH-3-277	277	1	T4	3	11.4
MFH-2.75-380	380	3	T4	2.75	4.8
MFH-3-400	400	3	T4	3	4.9
MFH-2.75-415	415	3	T4	2.75	4.4
MFH-3-440	440	3	T4	3	4.6
MFH-3-480	480	3	T4	3	4.3
MFH-3.7-600	600	3	T4	3.7	4.2
MFH-3.7-690	690	3	T4	3.7	3.7

* The maximum current includes the maximum motor inrush

Optional Accessories

Anti-Static Castors

Can be supplied with 50mm anti-static castors in place of fixed feet. This allows for easy manoeuvrability of the heater, allowing you to get heat where you need it.

Cable

BS5467 approved SWA multicore cables, rated for ambient conditions and voltage, can be supplied cut to length with cable glands to allow for installation. Your installer may also advise that cables be fire rated to IEC 60331 and 60332 standards. Parts are supplied by our recognised distributors. Pricing may vary.

Ducting

Flexible ducting to direct warm air can be affixed to the heater using a stainless steel mounting bracket available in various lengths. Suitable for use in ambient temperatures as low as -40°C. Fixing instructions available on request.

Emergency Stop Button

An emergency stop button can be supplied loose to be installed in the incoming power supply. This cannot be used in place of an isolator.

Indicating Lamps

Indicating lamps can be fitted to The Bulldog to provide visual indication when the heater is live and energised.

Local Isolator

The isolator will be suitably rated for each heater and can be fitted to The Bulldog with up to 1 x M32 cable entry. Alternatively, the isolator may be mounted remotely which will require additional cable.

Plug

Our recognised distributors can supply a range of hazardous area plugs. If required, both plug and socket can be supplied. Pricing may vary.

Room / Air Sensing Thermostat

Supplied fitted to the heater, the thermostat can be set up to control the heating elements and motor, or just the heating elements, whichever is preferred.

Wall Mounting Brackets

Optional mounting bracket to allow for wall positioning. This requires a remote isolator to allow operation of the unit from an accessible position. The bracket is coated mild steel, with stainless steel option available on request.