

MH Series

 **BENSON
HEATING**



MH Free Standing
Heaters

MH Series

Introduction

The MH series provides both short and long term temporary heating and drying solutions for a wide variety of applications including -

- Marquee
- Corporate events
- Sports and leisure facilities
- Building and construction sites
- Exhibition halls
- Industrial buildings



Model Range

The MH units are available with heat outputs ranging from 94kW - 300kW.

All models are indirect fired and provide warm, dry, fume-free air readily discharged directly into the heated area via the quiet yet powerful centrifugal fan, specifically selected to enable flexibility of location and long ductwork runs.

The MH150FT unit has the benefit of an in-built 520 litre PPG2/26 UN compliant oil tank, offering 24 hours of continuous firing at full load.



Specification

Heat Exchanger and Burner

Robustly engineered frame and panel construction, each heater is fully weatherproofed to IP44 standard and fitted with both lifting lugs and forklift slots making them stackable, storeable and manoeuvrable.

At the heart of the heater is the proven combustion chamber and heat exchanger, formed and welded from stainless steel the assembly is designed to combine high thermal efficiencies with long service life.

The burner and key controls are housed within a lockable compartment equipped with lighting.

Environmental considerations have not been forgotten either. The high efficiency heat exchanger and burner both assist in minimising carbon emissions, so too does the optional provision of return air.

Renewable technologies have also been respected with all models having the capability of operating on bio-diesel.

Electric Motors

All electric motors comply with EC motor directive 2005/32/EC

Controls

Controls include heat/fan-only selector switch, automatic phase detection and provision for remote thermostat connection.

Controllability and comfort are key in the design with two-stage control of both heat and air delivery being standard for models MH200 and MH300.



TECHNICAL DATA							
Model			MH100	MH150	MH150FT	MH200	MH300
Nominal heat output	Low setting	kW	n/a	n/a	n/a	117	180
	High setting	kW	94	150	150	170	300
Airflow	Low setting	m ³ /s	m/a	n/a	n/a	2.28	2.65
	High setting	m ³ /s	1.68	3.00	3.00	3.65	6.00
Fan static pressure	Low setting	Pa	n/a	n/a	n/a	320	480
	High setting	Pa	150	450	450	500	750
Fuel Data							
Tank capacity		l	n/a	n/a	520	n/a	n/a
Running time		h	n/a	n/a	30	n/a	n/a
Typical consumption		l/h	10.8	17.2	17.2	20.1	34.1
Quick coupler connection		BSP/Rc	1/2"	1/2"	1/2"	1/2"	1/2"
Fuel		Type	Class D Light Distillate (Gas Oil) or Kerosene				
Outlet spigots	Standard	mm	1 x 600	1 x 600	1 x 600	1 x 600	1 x 600
	Optional	mm	4 x 300	4 x 300	4 x 300	4 x 300	4 x 300
Flexible ductwork (Max. length)		m	10	50	50	80	100
Electrics							
Standard		V/ph/hz	415/3/50				
FLC		Amp	9.0	7.6	7.6	8.0	18.0
Weatherproofing		IP	44				
Flue diameter		mm ø	150	200	200	200	225
Noise level		dB(A)	76	76	76	76	78
Net weight	Without fuel	Kg	475	725	1086	725	1200
	With fuel	Kg	n/a	n/a	1518	n/a	n/a

Fuel type (eg gas oil or kerosene) must be specified at time of order.

Typical consumption and running time data has been assessed on full load (high fire) conditions.

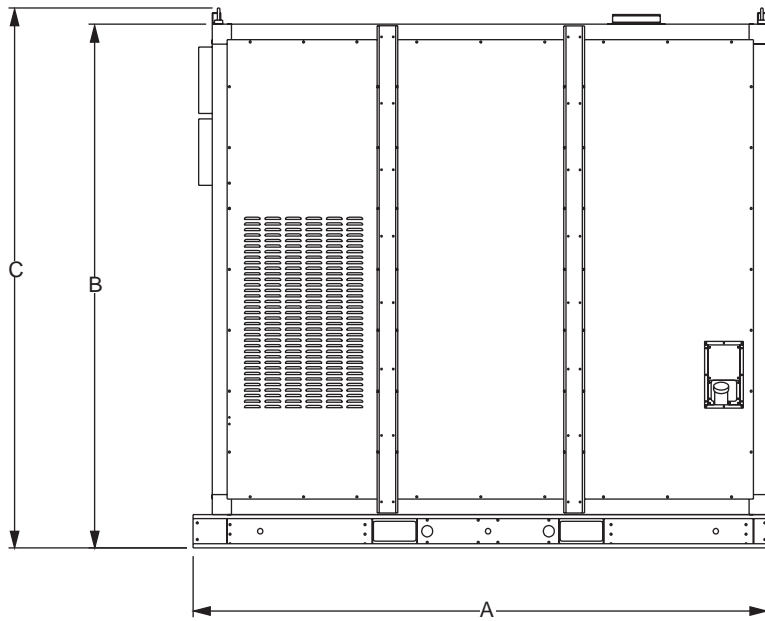
Air handling data is assessed at room ambient conditions.

Maximum flexible duct length is based upon 'recommended' size and includes both discharge and return (where applicable).

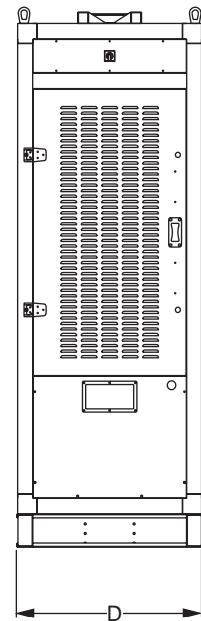
Noise levels measured 3m from appliance.



MH Series



Side view



Front view

DIMENSIONS

Model		MH100	MH150	MH150FT	MH200	MH300
Overall length	A	1970	2700	2700	2700	3600
Unit height	B	1390	1802	2438	1802	2350
Clearance height	C	2500	3000	3600	3000	3600
Overall width	D	670	830	870	830	1180

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