

# OUH

## Suspended Oil Unit Heater Oil Fired Options



### Overview

The OUH range of Oil Unit Heaters are indirect oil fired suspended warm air heaters with a stainless steel heat exchanger as standard and a downwards high/low firing pressure jet oil burner.

The OUH heater can be supplied in axial fan freeblowing format, to be installed directly into the space to be heated, or with centrifugal fan for ducted applications. The OUH range of oil fired unit heaters is comprised of 4 models with outputs ranging from 20kW to 60kW.

The range has been designed for use in factory or warehouse premises where oil firing is a requirement and floor space is at a premium.

### Models Available

- OUH F - Freeblowing Oil Unit Heater
- OUH C - Centrifugal Oil Unit Heater
- OUH D - Ducted Oil Unit Heater

### Product Features

- The proven design and years of longevity make the OUH a leading recommendation for the HVAC installer. With simply maintenance access and ease of installation, the OUH is the perfect heating solution for buildings with oil only available.
- The latest ErP regulations demand reduced NOx and increased seasonal efficiency, OUH meets these standards by utilising state of the art burners, air movement and control technology whilst maintaining the temperature rises required in cabinet heater installations.
- Axial fan heaters are fitted with a single fan set and discharge warmed air directly into the heated space via adjustable horizontal louvers. Vertical louvres are available as an option where lateral air discharge is required. Centrifugal fan models benefit from a close coupled fan which discharges warmed air via a duct outlet spigot suitable for the onward connection of ductwork.

### Specification

- OUH heaters are type tested and CE approved. In addition, OUH heaters made available to the market from September 2018 onwards comply with the requirements of the Directive 2009/125/EC - Lot 21 Tier 1.
- The robust and proven heat exchanger is manufactured as standard from 304 grade stainless steel and lifecycle tested to ensure long service life.
- Powrmatic working alongside market leading burner manufacturer Riello now utilise a pre-fitted and tested low NOx, high-low control "Gulliver" burner as standard.
- Supplied as standard to run on 35 second oil (gas oil), 28 second oil (kerosene) available if requested at point of order. Bio-fuel options also available.
- Supplied with a fire valve and oil line filter (loose), for on-site fitting.
- To achieve designed coverage and throw the supply fan airflow will remain constant through the high-low fire operation.
- The casing will be designed for rigidity and low noise, anti-vibration mounts will be utilized to secure the main fan assemblies.
- Heater casing will be protected by epoxy powder coat stove baked paint to RAL 7015.
- Controlled by Powrmatic MC200 Optimised Start Control.

# Technical Performance

OUH

Model				20	30	45	60	
Output (nominal)		High Fire (Max)		kW	20.0	30.0	45.0	60.0
		Low Fire (Min)		kW	16.4	24.2	33.7	45.2
Input (net CV)		High Fire (Max)		kW	21.7	31.7	53.0	66.8
		Low Fire (Min)		kW	17.5	26.0	37.1	50.9
NOx Seasonal (Gross)				mg/kWh	159.3	120.6	137.7	106.2
Seasonal Space Heating Energy Efficiency				% hs,h	75%	74%	73%	73%
Airflow	Volume	OUH F	m³/s	0.7	0.82	1.19	1.94	
		OUH C	m³/s	1.0	0.82	1.19	1.88	
	Throw	OUH F	m	8.5	16	25	34	
	Fan Static	OUH C	Pa	275	305	275	384	
Electrics	Supply	Standard	V/ph/Hz	230/1/50				
		Optional	V/ph/Hz	415/3/50				
	Run Current	OUH F	amp	0.94	0.46	0.48	1.7	
		OUH C	amp	4.3	4.33	5.54	8.0	
	Motor			kW	0.55	0.55	1.1	1.5
Fuel Oil	Connection		BSP/Rc	¾				
	Consumption	High Fire (max)	kg/h	1.83	2.67	4.47	5.63	
			l/h	2.18	3.18	5.32	6.70	
		Low Fire (min)	kg/h	1.47	2.20	3.13	4.29	
			l/h	1.75	2.62	3.72	5.11	
Mounting Height	OUH F	Min	m	2.50		3.00		
		Max	m	3.00		5.00		
Overall Dimensions	Height		mm	806	1043	1049	1049	
	Width		mm	555	780	780	780	
	Depth	OUH F	mm	868	1106	1115	1150	
		OUH C	mm	1163	1470	1469	1469	
Installation Clearances		Top	mm	1000				
		Side	mm	500				
		Rear	mm	400				
Flue diameter			mm ø	100	125			
Combustion Air Spigot			mm ø	150				
Noise Level - OUH F models			dB(A)	46	54	52	53	
Nett Weight		OUH F	kg	53	126	126	126	
		OUH C	kg	91.5	142	142	142	
Model				20	30	45	60	

\* **Important Note:** For full technical specification notes please refer to the product installation manual on our website at [www.powrmatic.co.uk](http://www.powrmatic.co.uk)

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