

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 | 30 | 45 | 60 | |
| | Low Fire (Min) | kW | 16 | 24 | 34 | 45 | |
| NOx Seasonal (Gross) | | mg/kWh | 159.3 | 120.6 | 137.7 | 106.2 | |
| Seasonal Space Heating Energy Efficiency | | % $\eta_{s,h}$ | 75% | 74% | 73% | 73% | |
| Airflow | Volume | OUH F | m ³ /s | 0.7 | 0.82 | 1.19 | 1.94 |
| | | OUH C | m ³ /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 |
| Fuel Oil | Connection | BSP/Rc | 1/2 | | | | |
| | Consumption | l/h | 2.18 | 3.18 | 5.32 | 6.70 | |
| 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 \emptyset | 100 | 125 | | | |
| Combustion Air Spigot | | mm \emptyset | 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

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