

dhm sl

Slimline duct heater module – compact size, high efficiency
and outstanding value for money



The new dhm sl is an exciting development in gas burner design for air handling units. Its extremely compact size provides OEMs with a highly efficient unit that is easily integrated into existing AHU designs, providing performance and energy efficiency in a single cost-effective unit.



- **Wide range of outputs** – 30kW to 100kW.
- **6 sizes** – a choice to suit design requirements.
- **Multi-unit capability** – individual units can be stacked together to operate in series or in parallel to provide higher outputs.
- **Slimline width** – no requirement for inlet or outlet transition sections, reducing material and labour costs for OEMs, plus reduced length of the air handling unit.
- **Easy to service** – multi-tube burners fed from a manifold with a single gas safety control.
- **Low resistance to airflow** – a unique tube arrangement offers low resistance to air flow compared with conventional heat exchangers, enabling low fan motor power and reduced energy requirements.
- **Very quiet operation.**
- **91% efficiency (high fire, net basis)** – utilises proven technology from the nv heater programme for maximum operational efficiency.
- **eca approval** – 100% capital allowance in the first year against all supply and installation costs.
- **Suitable for retro fit/upgrade** – dhm sl is ideal for the conversion of hot water, steam or electric systems to gas.

Construction

dhm sl heaters are based on aluminised mild steel tube heat exchange elements with each tube having a dedicated inshot type burner and a closed combustion circuit that is fan assisted with fully automatic controls. Units are available as on/off, high/low or fully modulating, with a low fire rate for the latter two options of 30%. Each unit is fitted with a condense drain and solenoid valve and supplied without controls housing for installation into air handling units.

Options and accessories

1. Stainless steel heat exchanger tubes (Type 316)
2. High/low burner operation
3. Modulating burner operation
4. Controls housing
5. Vertical flue assembly
6. Horizontal flue assembly

dhm sl slimline duct heater module

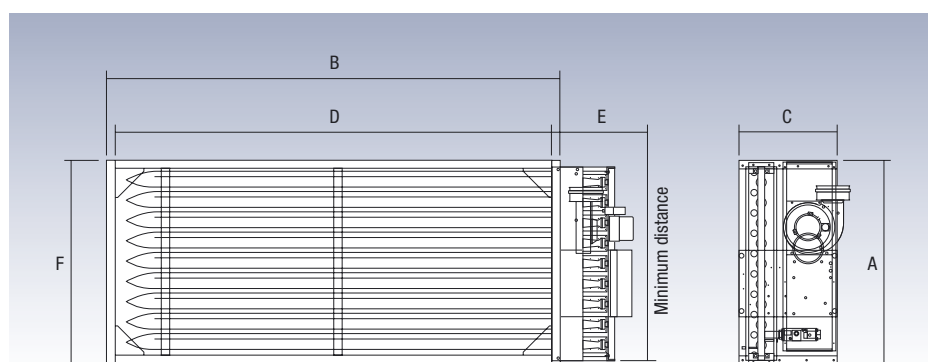
Performance data

model	No. of burners	Output High kW	Input High kW	Gas rate High m ³ /h	Min. air flow m ³ /s	Output Low kW	Input Low kW	Gas rate Low m ³ /h	Flu Ø mm
dhm sl 30	6	30	32.97	3.49	1.052	9.0	10.7	1.13	100
dhm sl 45	9	45	49.45	5.23	1.578	13.5	16.1	1.70	100
dhm sl 50	6	50	54.95	5.81	1.753	15.0	17.9	1.89	130
dhm sl 60	12	60	65.93	6.98	2.104	18.0	21.4	2.26	130
dhm sl 75	9	75	82.42	8.72	2.630	22.5	26.8	2.83	130
dhm sl 100	12	100	109.9	11.63	3.506	30.0	35.7	3.77	130

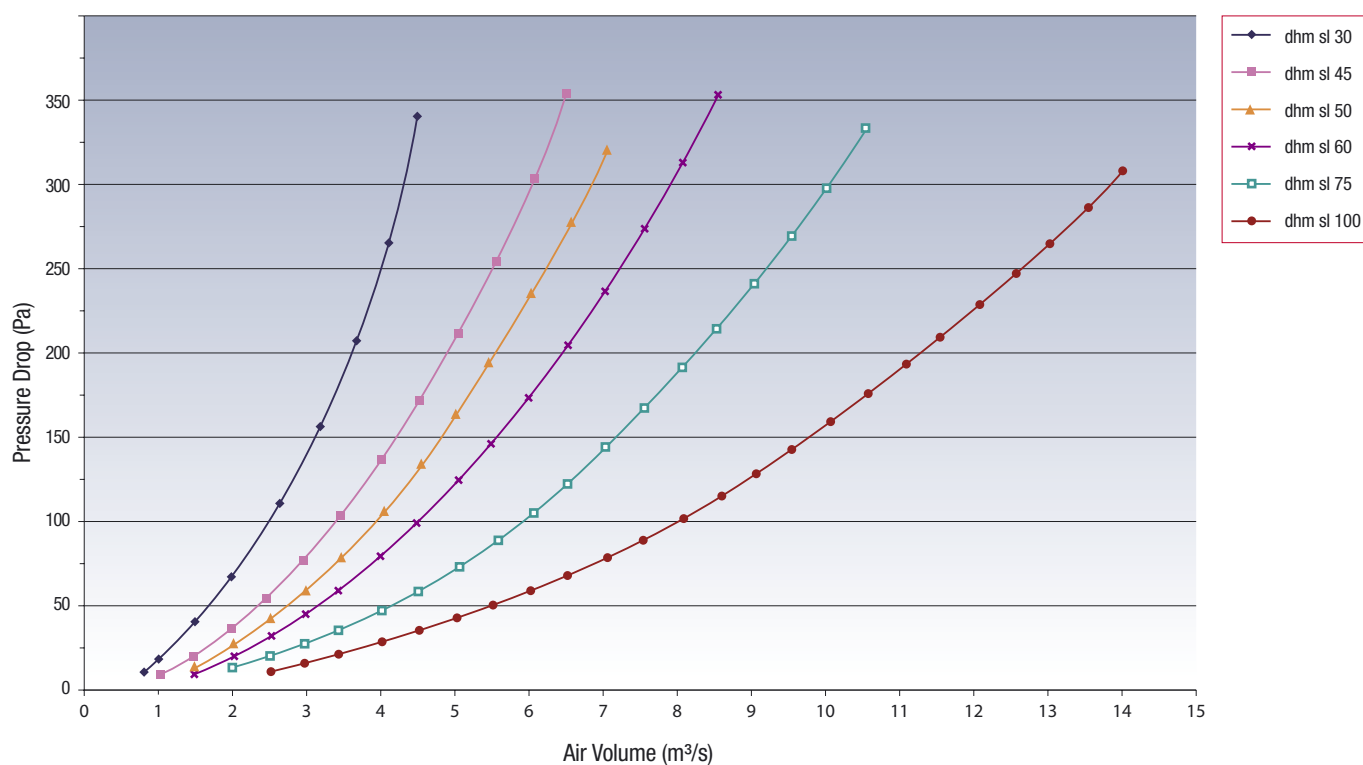
Gas rate is for natural gas.

Dimensional data in mm

model	A	B	C	D	E	F
dhm sl 30	555	1250	400	1180	390	478
dhm sl 45	783	1250	400	1180	390	706
dhm sl 50	1011	1250	400	1180	390	513
dhm sl 60	590	1850	400	1780	390	934
dhm sl 75	839	1850	400	1780	390	762
dhm sl 100	1088	1850	400	1780	390	1011



Pressure drops



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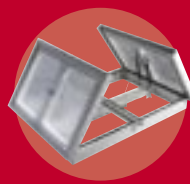
pgv

Glass louvred ventilator. Both functional and attractive. Specifically designed for modern building requirements.



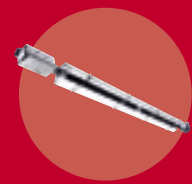
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Twin flap natural ventilator. Suitable for smoke venting & featuring very low air leakage when closed.



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