

REZNOR[®]

October 2021

Trusted Heating Solutions

COMET

Gas & Oil Fired Cabinet Heaters



 **NORTEK**[™]
GLOBAL HVAC



COMET

Gas & Oil Fired Cabinet Heaters

The Comet range of cabinet heaters combine innovative design with proven heat exchanger technology to provide a high efficiency cost effective and durable range.

The units may be specified for either free blowing applications or for use with ductwork.

Model Range

Gas fired cabinet heaters are suitable for use with Natural Gas (G20), most units can also be specified for Propane (G31).

Oil fired cabinet heaters are suitable for use with Class D gas oil (35 sec). Oil fired cabinets are supplied with a fire valve and an oil filter as loose components.

Vertical freestanding models are available from 44kW to 293kW.

Two stage burners are controlled via standard along with a Smartcom Multizone control panel (supplied loose).

Air Distribution

EC Plug fan(s) circulate large air volumes evenly across the full heat exchanger surface for enhanced life expectancy. Free blowing heaters are supplied with (loose) long throw discharge nozzles

complete with horizontal louvres and can be rotated through 360°. Models 85-300 are supplied with a raised rear nozzle.

Ductwork can be fitted directly to the top of those heaters requiring ducted discharge.

Specification

Cabinet

Cabinets are constructed using a penta-post frame with profiles in galvansied powder painted panels to form a rigid and durable casework. Panels for the heating section are provided with internal insulation along with inner heat shields manufactured from aluminised steel.

Electric Motors

All electric motors comply with EC motor directive 2005/32/EC. This provides better overall electrical efficiency and a more consistent airflow across the heat exchanger. Also improving the overall heat exchanger efficiency.

Heat Exchanger

Inversion combustion chamber with four pass heat exchanger assembly provides improved thermal efficiency with extended life expectancy. The 304 stainless steel combustion chamber is combined with a high efficiency flat tube heat exchanger to achieve combustion efficiencies of up to 94% (ncv). The complete assembly is mounted to allow for thermal expansion, thereby avoiding undue thermal stress and premature heat exchanger failure.

Burner

Gas fired units are supplied with a fitted high/low fully automatic forced draught burner complete with full safety controls to EN676. Heaters are CE certified.

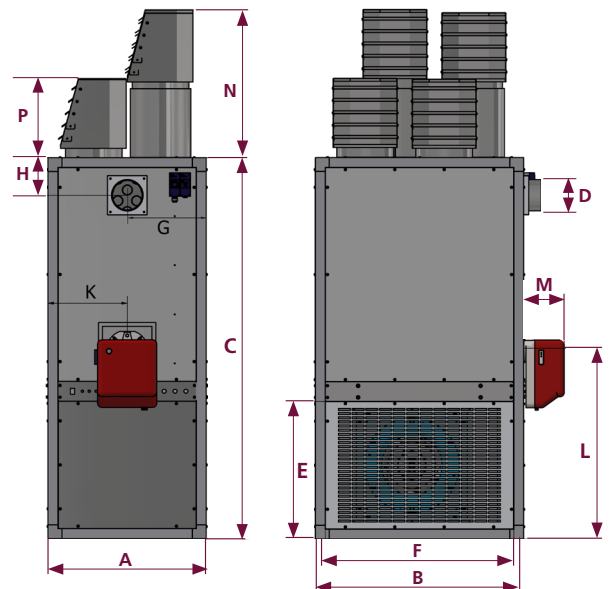
Oil fired units are also supplied with a fitted high/low fully automatic burner including safety controls. Fire valve and oil filter are supplied as loose components. An additional external fire valve may be required in accordance with BS 410: Part2:1978.

Technical Data		Model						
		45	60	90	150	175	205	295
Nominal heat output	kW	44	59	88	147	176	205	293
Temperature rise	°C	40	41	43	42	40	40	42
Thermal Efficiencies (Nett CV)	%	MIN 92%						
NOx Seasonal	mg/kWh	58.2	58.1	62.3	65.3	62.4	66.1	68.5
Gas Fired								
Gas Consumption Nat Gas (G20)	m³/h	4.32	5.79	8.64	14.4	17.27	20.11	28.75
Gas Consumption Propane (G31)	m³/h	1.61	2.39	3.24	5.4	6.47	7.54	10.78
Minimum dynamic inlet pressure								
Nat Gas (G20)	mbar	17.5	17.5	17.5	17.5	17.5	17.5	17.5
Minimum inlet pressure Propane (G31)	mbar	37	37	37	37	37	37	37
Gas Connection	Rc	¾"	¾"	¾"	¾"	1¼"	1¼"	1¼"
Oil Fired								
Oil Consumption (35sec)	l/h	4.25	5.71	8.11	14.2	17.03	19.84	28.35
Oil Connection ²	Rc	¾"	¾"	¾"	¾"	¾"	¾"	¾"
Air Handling Data								
Airflow	m³/h	3,278	4,288	6,099	10,430	13,113	15,273	20,790
Airflow	m³/s	0.91	1.19	1.69	2.90	3.64	4.24	5.77
Throw (Nozzled outlet)	m	24	26	29	32	38	44	48
External Static Pressure (Ducted)	Pa	250	250	250	250	250	250	250
Fan	kW	0.65	0.8	1.2	2.5	2.5	3	5
Full Load Current	A	1.2	1.4	2.3	3.9	4.1	4.8	7.8
General Data								
Electrical Supply	Volts	415	415	415	415	415	415	415
Nominal Flue diameter	mm	150	150	150	180	200	250	250
Noise level @ 5m	dB(A)	58	59	62	72	73	75	78
Net Weight	kg	338	343	354	384	558	594	632

Nat gas @ 38.52 MJ/m³ | LPG @ 93.2 MJ/m³ | Oil @ 39.06 MJ/l

Dimensions		Model						
		45	60	90	150	175	205	295
A	Unit Width	800	800	800	800	1132	1132	1132
B	Unit Depth	1050	1050	1050	1260	1590	1590	1590
C	Unit Height	1940	1940	1940	1940	2390	2390	2390
D	mm (nominal)	150	150	150	180	200	250	250
E		700	700	700	700	700	700	700
F		950	950	950	1160	2290	2290	2290
G		400	400	400	400	566	566	566
H		191	191	191	191	244	244	244
K		400	400	400	400	566	566	566
L		970	970	970	970	1185	1185	1185
M	Gas	236	236	236	260	560	560	560
	Oil	236	236	236	260	560	560	560
N		753	753	753	753	820	820	820
P		403	403	403	403	470	470	470

Dimensional Details



1. Heaters with 3 or 4 nozzles are supplied with extended head on the rear nozzle(s).

For applications with restricted headroom, units may be specified with all nozzles at standard height upon request.

Other products in the Reznor range:-

- Warm air heaters
- Radiant heating
- Destratification fans
- Heating & ventilation units
- Air induction systems
- Gas fired heater modules
- Evaporative cooling

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