



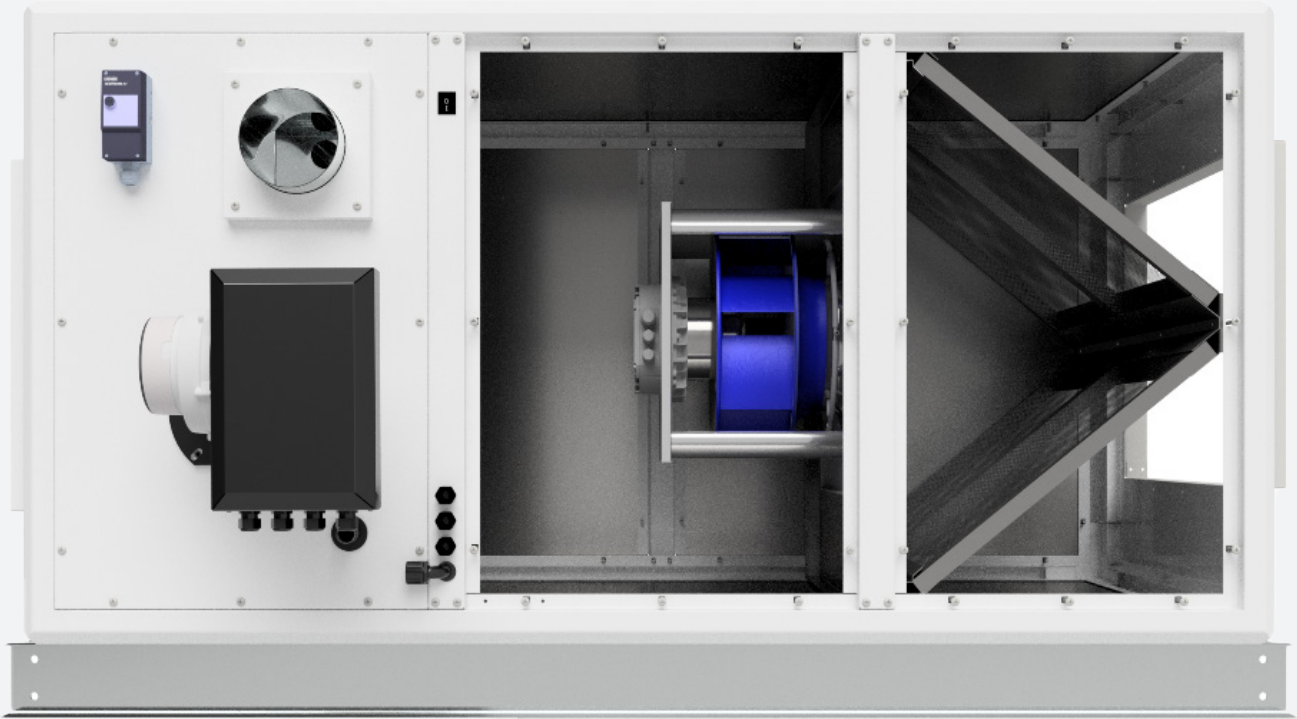
Warmatic

Efficient Heating Solutions



Vortex.

Gas Fired Heating, Cooling &
& Ventilation Units



Vortex.

Gas Fired Heating Ventilation & Cooling Units

Available with a total of seven output ratings from 30kW up to 200kW for internal or external mounting for operation on gas, LPHW or electric.

Incorporating high efficiency, low NOX pre-mix modulating burners, and EC plug fans as standard ensures high efficiency and minimum energy consumption is achieved.

Gas models are available for use with natural gas (G20), or LPG (G31). LPHW models can be configured to operate on boilers or heat pumps - just let us know your water flow & return temperatures. For those applications where gas is not available, an electric version of Vortex is available.

A wide range of optional equipment is also available, enabling each unit to be configured to suit most applications.

Features & Benefits

Compact nature makes Vortex ideal for replacing existing equipment.

Stainless steel heat exchanger with pre-mix burner.

Compact nature makes Vortex ideal for replacing existing equipment.

Thermal efficiency in excess of 93.5% (ncv)

Plug fan with integral inverter.

Thermal efficiency in excess of 93.5% (ncv)

High efficiency condensing and non-condensing gas fired heaters with optional electric, heat pump and LPHW.

Versatile

The Vortex range has been designed to offer installers a choice when replacing existing equipment, or installing as a new system.

The options for heat generation include gas (natural or LPG), LPHW (conventional boiler or heat pump) or electric. Whatever medium is selected the use of mixing dampers, filters etc still remains. Even cooling coils are an option.

Heat Exchanger

The heart of the gas fired module is a stainless steel heat exchanger, utilising a modulating pre-mix burner resulting in very low emissions and high thermal efficiencies in excess of 93.5% (ncv).

Ease of Installation

The compact size of Vortex has been specifically designed to enable it to replace a wide range of warm air heaters, in particular those connected to discharge air ducts, fresh air or both.

Construction

Vortex is constructed using 'penta post' framework with double skin insulated panels.

All units are mounted on a lightweight frame, which for the smaller units can be removed when installing the unit if needed to ensure ducts align etc.

Optional Equipment

A large number of optional accessories are available for the Vortex range including: panel air filters, inlet air dampers, damper motors, weather louvres, cooling coils etc.

Fan Efficiency

The fitted Plug fan offers optimal efficiency and maximum savings thanks to the integrated high efficiency inverter.

This enables the system to be pre-set prior to leaving the factory with the air volume & external static pressure requested. Further fine tuning can be carried out at commissioning if needed.



VORTEX-WMI



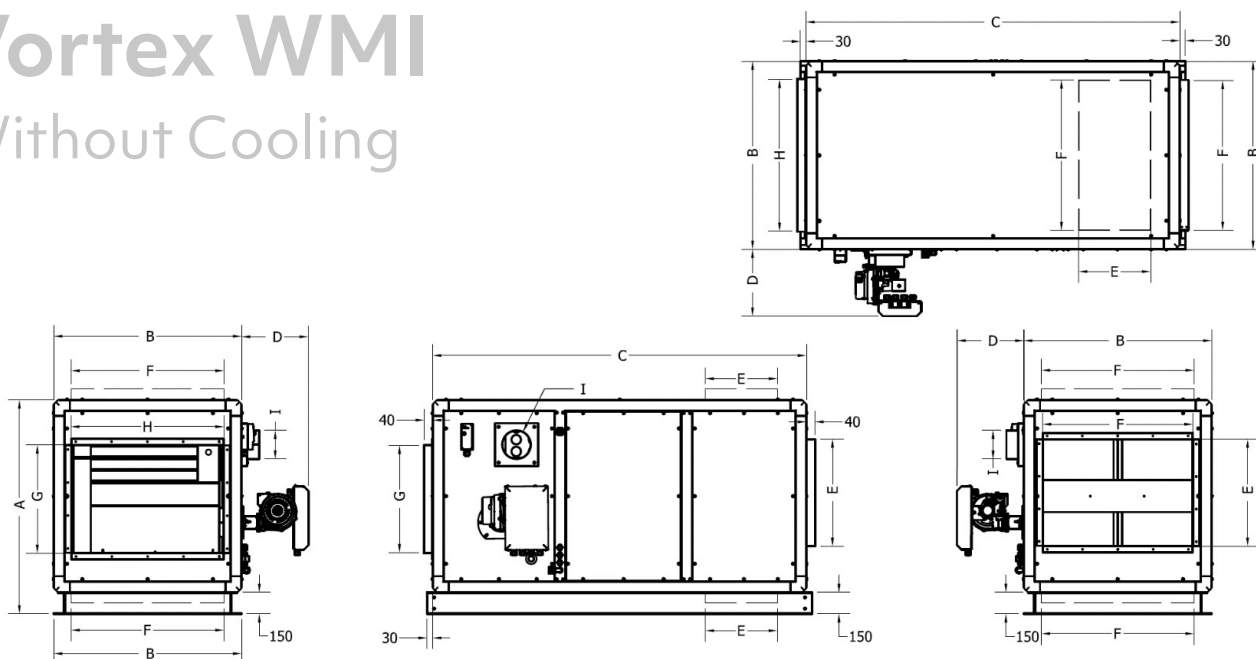
VORTEX-IAP



VORTEX-EAP

Vortex WMI

Without Cooling



Specifications

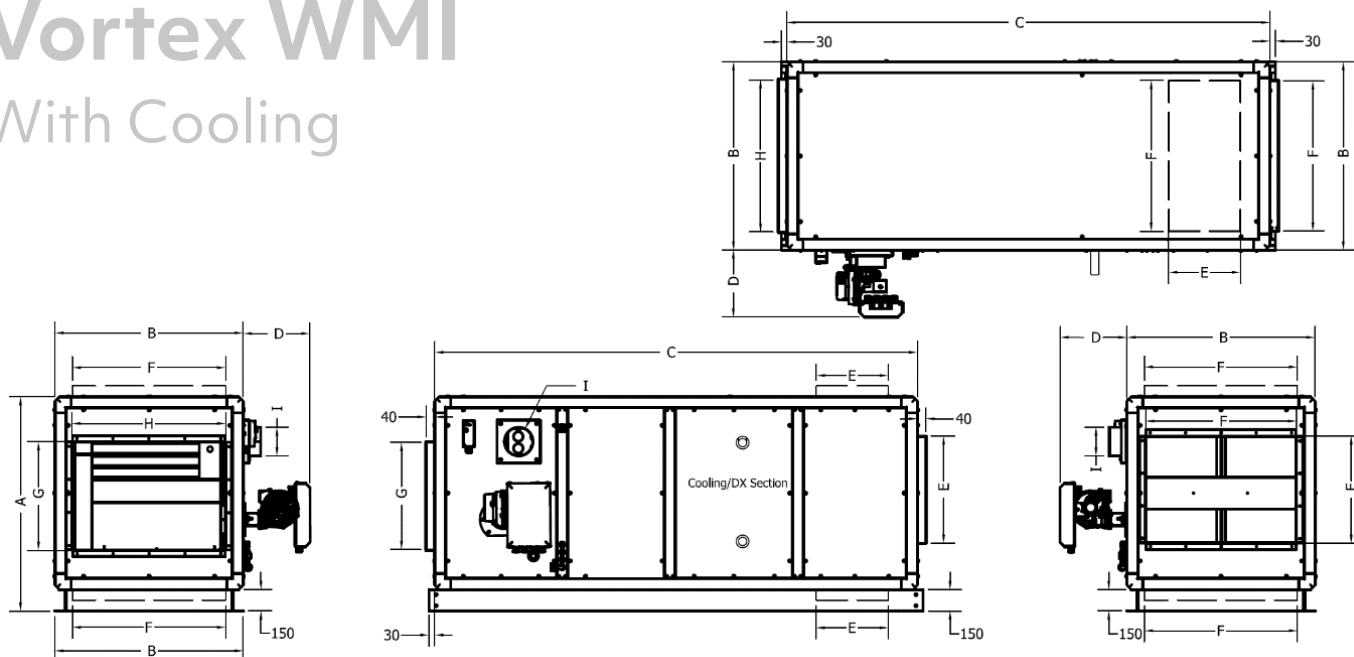
Models	30	45	60	90	120	150	200
Heat Output Maximum (kW)	30	45	60	90	120	150	200
Heat Output Minimum (kW)	7.5	11.25	15	22.5	30	37.5	50
Heat Input Maximum (kW)	31.8	47.7	63.6	95.4	127.2	159	212
Heat Input Minimum (kW)	7.95	11.925	15.9	23.85	31.8	39.75	53
Air Volume 15c Maximum (m3/hr)	1700	3000	3900	6000	7945	9932	13244
Air Volume 15c Minimum (m3/hr)	3500	6100	9000	13500	17100	21276	28368
Max Air Volume Chilled Cap. (m3/h)	3500	5700	5910	9800	12100	13100	14520
Max external static pressure (Pa)	350	350	350	350	350	350	350
Nat Gas Max Consumption (g20) (m3/hr)	3	4.5	6	9	11.99	14.99	19.81
LPG Max Consumption (g31) (m3/hr)	1.24	1.86	2.48	3.72	4.96	6.2	7.19
Gas Connection (BSP)	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	1"
Flue Connection (mm)	100	130	130	130	130	130	150
Max Cooling Duty (Optional) DX (kW)	20	37	51	67	76	82	89
Max Cooling Duty (Optional) Chilled Water (kW)	25	32	53	62	72	80	85
Total Electrical Maximum (kW)	0.4	0.4	0.6	0.8	1.0	1.2	1.5
Total Electrical Minimum (kW)	1.9	3.8	4.9	5.5	7.5	7.5	9.0
Maximum Flue Run - Horizontal (m)	3	3	6	6	6	6	6
Maximum Flue Run - Vertical (m)	25	25	25	25	25	25	25
Supply Voltage (V)	400v 3N 50Hz						
Weight (kg)	252	291	298	378	489	532	603

Dimensions

Models	30	45	60	90	120	150	200
A	850	850	850	1090	1090	1150	1150
B	840	1095	1095	1095	1720	1720	1975
C	1860	2300	2300	2300	2500	2500	2500
D	320	320	320	320	430	430	430
E	300	500	500	500	600	600	600
F	700	700	700	1000	1200	1400	1400
G	450	685	685	685	685	800	800
H	836	836	836	836	900	900	1100
I	100	130	130	130	130	130	150

Vortex WMI

With Cooling



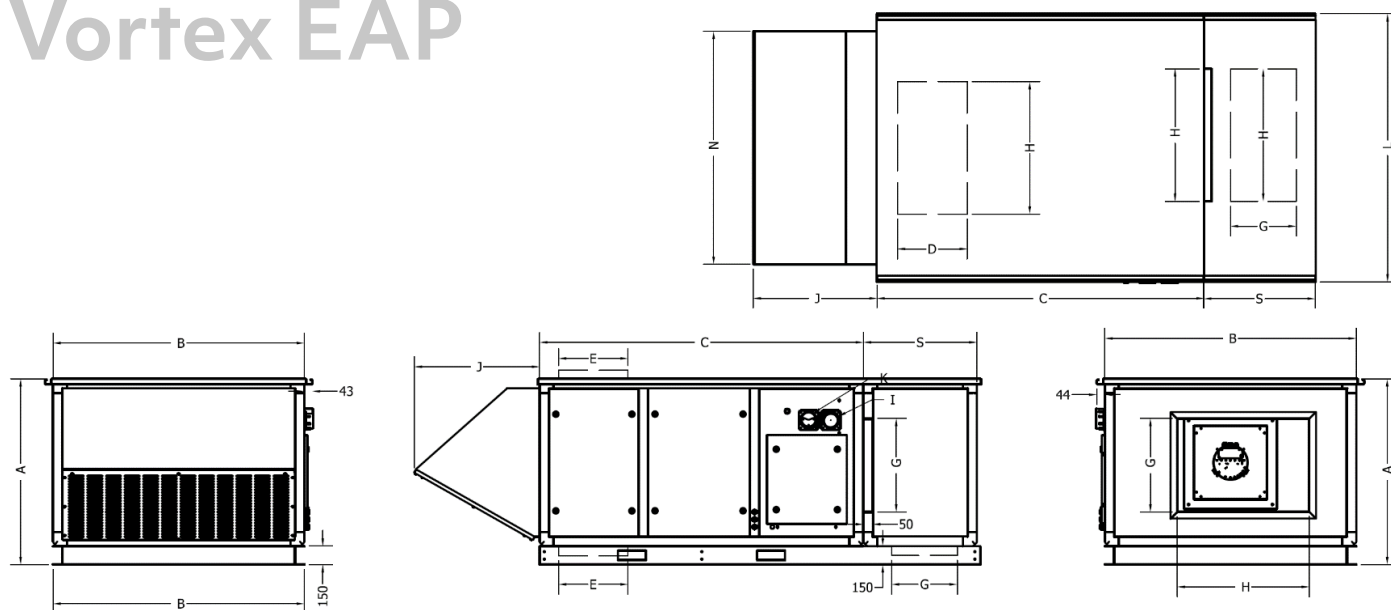
Specifications

Models	30	45	60	90	120	150	200
Heat Output Maximum (kW)	30	45	60	90	120	150	200
Heat Output Minimum (kW)	7.5	11.25	15	22.5	30	37.5	50
Heat Input Maximum (kW)	31.8	47.7	63.6	95.4	127.2	159	212
Heat Input Minimum (kW)	7.95	11.925	15.9	23.85	31.8	39.75	53
Air Volume 15c Maximum (m3/hr)	1700	3000	3900	6000	7945	9932	13244
Air Volume 15c Minimum (m3/hr)	3500	6100	9000	13500	17100	21276	28368
Max Air Volume Chilled Cap. (m3/h)	3500	5700	5910	9800	12100	13100	14520
Max external static pressure (Pa)	350	350	350	350	350	350	350
Nat Gas Max Consumption (g20) (m3/hr)	3	4.5	6	9	11.99	14.99	19.81
LPG Max Consumption (g31) (m3/hr)	1.24	1.86	2.48	3.72	4.96	6.2	7.19
Gas Connection (BSP)	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	1"
Flue Connection (mm)	100	130	130	130	130	130	150
Max Cooling Duty (Optional) DX (kW)	20	37	51	67	76	82	89
Max Cooling Duty (Optional) Chilled Water (kW)	25	32	53	62	72	80	85
Total Electrical Maximum (kW)	0.4	0.4	0.6	0.8	1.0	1.2	1.5
Total Electrical Minimum (kW)	1.9	3.8	4.9	5.5	7.5	7.5	9.0
Maximum Flue Run - Horizontal (m)	3	3	6	6	6	6	6
Maximum Flue Run - Vertical (m)	25	25	25	25	25	25	25
Supply Voltage (V)	400v 3N 50Hz						
Weight (kg)	252	291	298	378	489	532	603

Dimensions

Models	30	45	60	90	120	150	200
A	850	850	1090	1090	1150	1150	1150
B	840	1095	1095	1095	1720	1720	1975
C	2360	2800	2800	2800	3000	3000	3000
D	320	320	320	320	430	430	430
E	300	500	500	500	600	600	600
F	700	700	700	1000	1200	1400	1400
G	450	685	685	685	685	800	800
H	836	836	836	836	900	900	1100
I	100	130	130	130	130	130	150

Vortex EAP



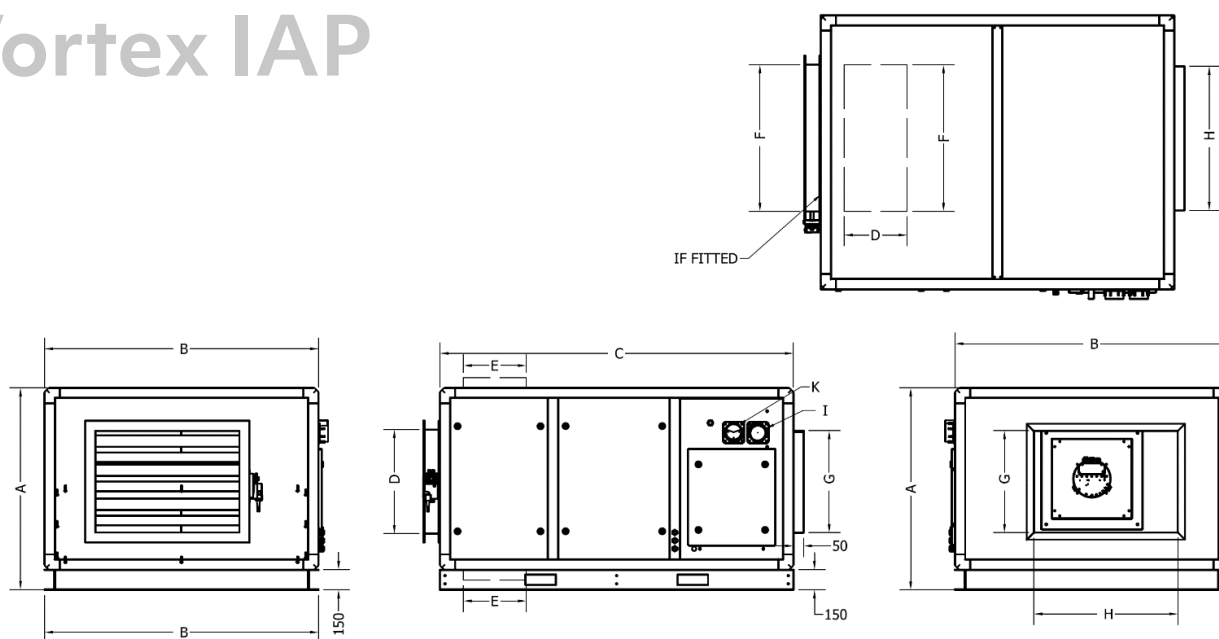
Specifications

Models	20	34	45	65	80	105
Heat Output Maximum (kW)	18.18	33.56	40.45	62.93	80.03	97.15
Heat Output Minimum (kW)	4.97	8.13	8.97	13.4	17.77	22.77
Air Volume 15c Maximum (m ³ /hr)	1700	2500	3000	3900	5300	7000
Air Volume 15c Minimum (m ³ /hr)	3500	5100	6100	8000	10600	14100
Max Air Volume Chilled Cap. (m ³ /h)	3500	5100	5750	5750	9600	11800
Max external static pressure (Pa)	350	350	350	350	350	350
Nat Gas Max Consumption (g20) (m ³ /hr)	2.01	3.69	4.44	6.88	8.68	10.58
LPG Max Consumption (g31) (m ³ /hr)	1.24	1.86	2.48	3.72	4.96	6.2
Gas Connection (BSP)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Flue Connection (mm)	80/80	80/80	80/80	80/80	80/80/	80/80
Max Cooling Duty (Optional) DX (kW)	20	21	29	36	50	65
Max Cooling Duty (Optional) Chilled Water (kW)	21	24	28	31	52	63
Total Electrical Maximum (kW)	0.4	0.4	0.5	0.8	1.0	1.0
Total Electrical Minimum (kW)	1.1	1.5	3.0	4.0	5.5	5.5
Maximum Flue Run - Horizontal (m)	3	3	6	6	6	6
Maximum Flue Run - Vertical (m)	25	25	25	25	25	25
Supply Voltage (V)	400v 3N 50Hz					
Weight (kg)	252	291	298	378	489	532

Dimensions

Models	20	34	45	65	80	105
A	850	850	1090	1090	1150	1150
B	735	975	975	1300	1475	1700
C	1900	1900	2300	2300	2300	2300
D	300	300	500	500	500	500
E	300	300	500	500	500	500
G	450	450	685	685	685	685
H	600	700	600	600	1000	1200
I	80	80	80	80	80	80
J	650	650	820	820	820	820
K	80	80	80	80	80	80
N	635	875	875	1200	1375	1600
S	600	600	600	835	835	835

Vortex IAP



Specifications

Models	20	34	45	65	80	105
Heat Output Maximum (kW)	18.18	33.56	40.45	62.93	80.03	97.15
Heat Output Minimum (kW)	4.97	8.13	8.97	13.4	17.77	22.77
Air Volume 15c Maximum (m ³ /hr)	1700	2500	3000	3900	5300	7000
Air Volume 15c Minimum (m ³ /hr)	3500	5100	6100	8000	10600	14100
Max Air Volume Chilled Cap. (m ³ /h)	3500	5100	5750	5750	9600	11800
Max external static pressure (Pa)	350	350	350	350	350	350
Nat Gas Max Consumption (g20) (m ³ /hr)	2.01	3.69	4.44	6.88	8.68	10.58
LPG Max Consumption (g31) (m ³ /hr)	1.24	1.86	2.48	3.72	4.96	6.2
Gas Connection (BSP)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Flue Connection (mm)	80/80	80/80	80/80	80/80	80/80/	80/80
Max Cooling Duty (Optional) DX (kW)	20	21	29	36	50	65
Max Cooling Duty (Optional) Chilled Water (kW)	21	24	28	31	52	63
Total Electrical Maximum (kW)	0.4	0.4	0.5	0.8	1.0	1.0
Total Electrical Minimum (kW)	1.1	1.5	3.0	4.0	5.5	5.5
Maximum Flue Run - Horizontal (m)	3	3	6	6	6	6
Maximum Flue Run - Vertical (m)	25	25	25	25	25	25
Supply Voltage (V)	400v 3N 50Hz					
Weight (kg)	252	291	298	378	489	532

Dimensions

Models	20	34	45	65	80	105
A	850	850	1090	1090	1150	1150
B	735	975	975	1300	1475	1700
C	1900	1900	2300	2300	2300	2300
D	300	300	500	500	500	500
E	300	300	500	500	500	500
F	600	700	600	600	1000	1000
G	450	450	685	685	685	685
H	600	700	600	600	1000	1200
I	80	80	80	80	80	80
K	80	80	80	80	80	80

About Us

Warmatic Limited are a British manufacturer, offering bespoke efficient climate solutions to the commercial and industrial sectors, in order to help our clients achieve their desired environmental conditions.

Warmatic are a North East based company established with vast experience gained from within the HVAC and manufacturing industry. Our business operates on two main core values:

- **To build and maintain long-term customer relationships**
- **To fulfil the demands of our clients by producing high quality, efficient products on-time.**

Warmatic are specialists in the design and manufacture of bespoke gas fired warm air:

- **Temperature Controlled Ventilation Units**
- **Gas & Oil Fired Modules**
- **Direct and Indirect Gas Fired Heaters**
- **Air Rotation Units and De-stratification Fans**

Our products are constantly reviewed in order to ensure we operate at the highest engineering standard whilst also considering our environmental impact.

Our dedicated and talented team use state of the art design technology and offer a high level of technical advice and site support throughout a project to ensure your requirements are achieved.



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