Warmatic
Efficient Heating Solutions

Supercell

Gas Fired Heat Modules

High Efficiency Ultra Low NOX Heat Modules
(High Temperature & Oil Fired Options Available)

Supercell

Gas Fired Heat Modules

Warmatic Supercell is the latest generation fully packaged heating module designed for inclusion in air handling units to provide a Condensing high efficiency ultra low NOx gas fired heating section.

Ideally suitable for replacing steam and hot water coils in existing units, enabling the changeover from central boiler plant to be decentralised gas fired systems.

The units also provide an ideal heating module for installation in ductwork systems and a variety of industrial applications including drying and curing.

Model Range

Supercell SL WMV (Page 4)
Vertical mounted single model 7 models 30 to 200 kW

Supercell SL WMH (Page 6)
Horizontal mounted single module 7 models 30 to 200 kW

Supercell WMI (Page 8)
Horizontal modules 16 models 30 to 1000 kW

Supercell Stacked
Vertical or horizontal.

Where higher heat outputs are required, modules can be stacked, mounted in series or even side by side if sufficient space for access is available.

Burner and Heat Exchanger

The burner is of the fully pre-mixed blown gas modulating type. The heat exchanger used is a 4 pass type allowing for a narrower footprint. high efficiency fully condensing with an integral condensate drain eliminates the risk of condensate build-up.

A microprocessor controller provides full operational and safety control of the burner. The gas burner is an ultra-low NOx gas burner with capability of 6:1 turndown giving excellent temperature control and energy savings.

Control

The module is suitable for control via a 0-10V DC signal from a BMS or local thermostat.

Construction

All modules are supplied factory assembled on a frame suitable for mounting on coil slides, fully wired complete with burner controls accessed from a single side.
The modules are suitable for internal or outside use, although they must be weatherproofed if exposed to external conditions.

Simple Easy Installation

The heating modules are designed for fast and simple installation and only require “coil slides” for incorporation within an Air handling Unit.

UKCA and CE Certification

All heating modules are fully UKCA and CE certified and are supplied with fitting instructions. Each unit is fully tested prior to despatch, with optional on site commissioning and full after sales service available through a nationwide network of in-house service engineers.

Key Features

- Heat Outputs 10kW to 1000kW
- Up to 109% Nett Efficiency
- British Manufacturer
- Ultra Low NOx
- Compact Design for AHU Installation
- High Turndown Ratio
- Module Fitting for Cascade Control
- Ideal for Replacing LPHW or Electric Coil to Gas
- Pre-Mixed Gas Burner
- Fully Condensing Heater
- High Temperature Heat Module Option Available for Industrial Process Applications.

Reduced Installation Costs

The application of gas fired heating modules directly at the point of use eliminates the need for a central boiler plant with all the associated costs and space requirements for the plant room, boiler, pumps, pipework and insulation. Gas fired heating modules also remove the risk of freezing and subsequent costs of frost protection for heating coils and pipework, a factor which is particularly relevant for external or roof mounted air handling units and/or coils located in ductwork systems.

Monobloc Units

Supercells can be supplied assembled as a single monobloc to provide heat outputs up to 1000kW. The monobloc units combine high thermal efficiency with an excellent turndown ratio of up to 18:1 to optimise energy usage, depending on the output and control system selected.

This modular approach provides improved reliability, allowing large heat output units to be utilised without the risk of loss of total heating on failure of a single component. Where higher airflows are required a top or side bypass can be incorporated to minimise the pressure, drop through the heating coil.

Optional Control Vestibules

An optional enclosed control vestibule can be provided. The flanged vestibule allows the width of the Air Handling Unit to be minimised with the control vestibule projecting outside.

The vestibules may be specified for either internal or outdoor units. Vestibules have a durable powder coat finish to Goosewing grey BS10 A05, other colours are available on request.

Higher airflow units may be fitted with a side bypass to minimise the pressure drop through the heating coil. Top bypass arrangement is not available for units fitted with a vestibule.

Units supplied complete with a controls vestibule are also ideal for applications where the heat module is to be installed into ductwork.

ErP READY

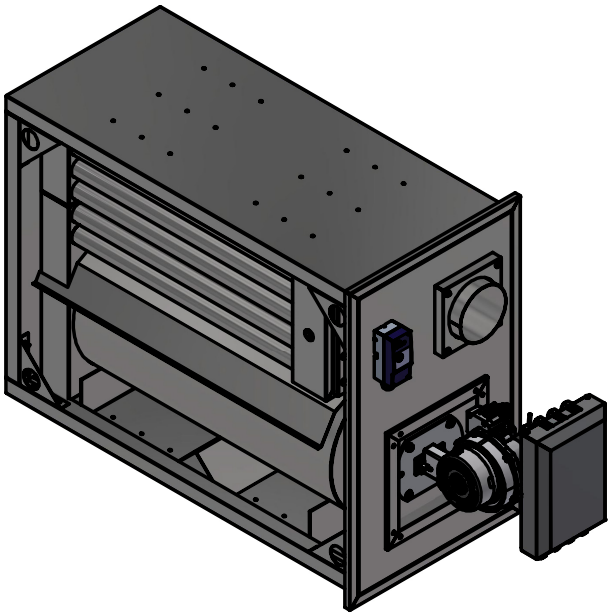
GAS safe™ REGISTER

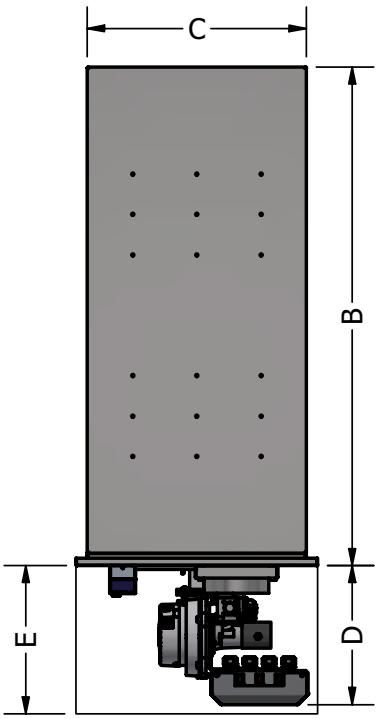
Time Related Heat Exchanger Warranty

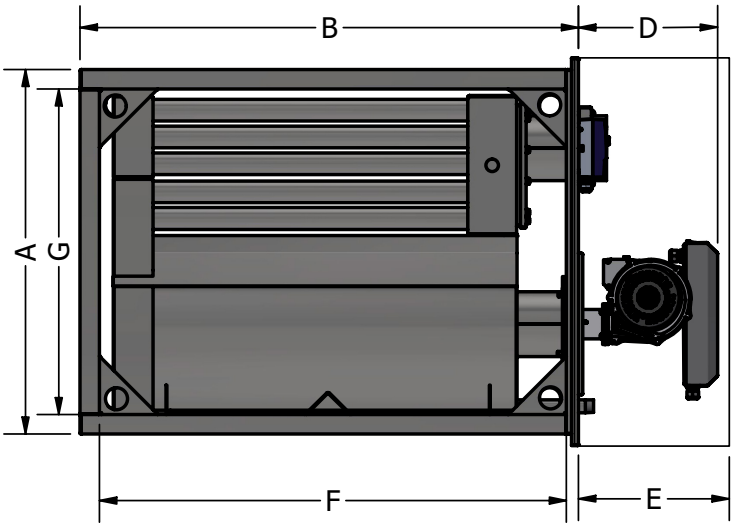
Parts Warranty

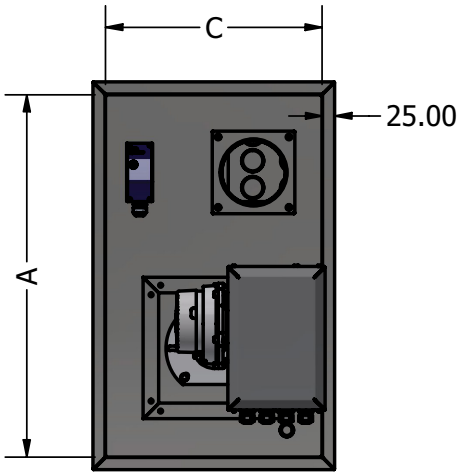
Labour Warranty

Supercell SL WMIV









Slimline Heat Module

Mounted in a vertical orientation, ideal for replacing LPHW coils, steam coils and for air handing unit mounting.

Compact design reduces the required length of air handing unit sections.

Combustion chamber and heat exchanger 304 stainless steel as standard.

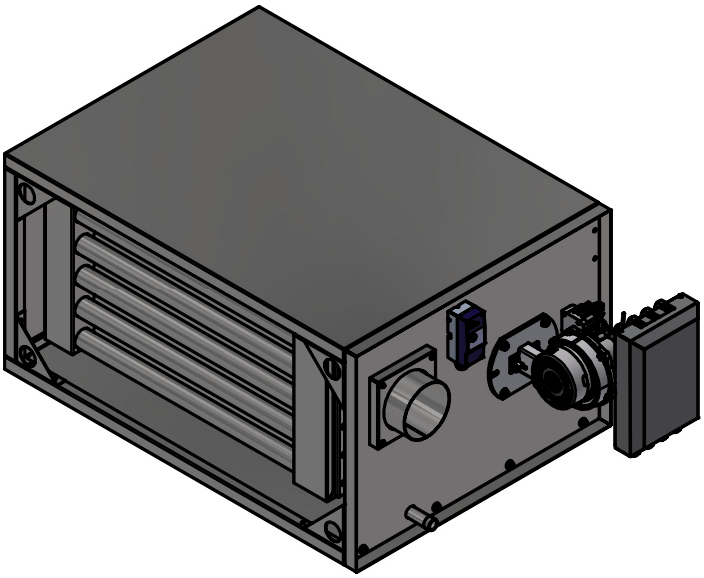
Condensing fully modulating 6:1 turndown with low NOx burners to reduce emissions and increase efficiency.

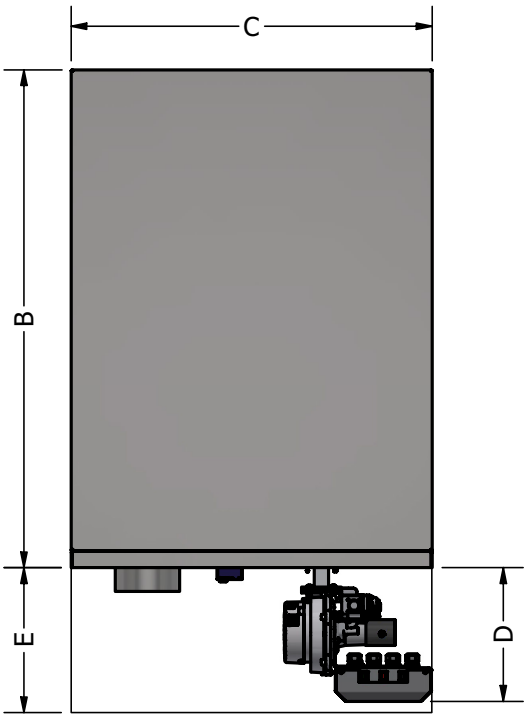
Industrial process high temperature option available.

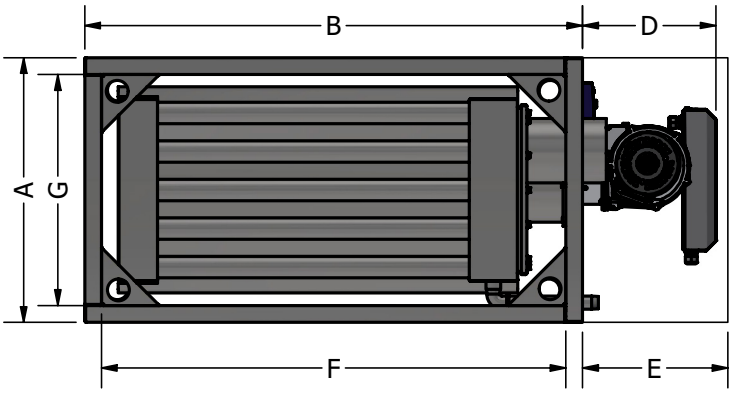
Vertical - Single Module		30	45	60	90	120	150	200
Height (mm)	A	750	750	750	750	1000	1000	1000
Width (mm)	B	600	1035	1035	1035	1370	1370	1925
Length (mm)	C	450	450	450	450	450	450	550
Burner Protrusion (mm)	D	294	294	294	294	428	428	428
External Cabinet Dimension (mm)	E	350	350	350	350	450	450	450
Duct Connection Width (mm)	F	760	975	975	975	1310	1310	1865
Duct Connection Height (mm)	G	690	690	690	690	940	940	940
	SL WMH	**30**	**45**	**60**	**90**	**120**	**150**	**200**
Heat Output	kW	30	45	60	90	120	150	200
Gas Consumption	m^3/hr	2.97	4.46	5.94	8.92	11.89	14.86	19.81
Gas Connection	BSP	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	1"
Flue Connection	ø mm	100	130	130	130	130	130	150
Condensate Connection	ø inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Electrical 230v/1PH/50Hz	Amps	5	5	5	5	5	5	5
Minimum Airflow	m^3/sec	0.6	0.8	1.1	1.55	2.2	2.7	3.68
Pressure drop at minimum airflow	Pa	95	92	98	110	98	109	98
Net Weight	kg	65	79	85	90	98	109	116

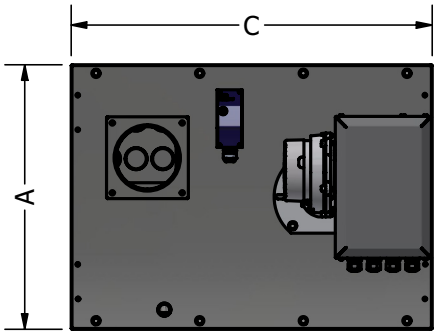
Vertical - Multiple Modules		300-2	400-2	600-3	800-4
Height (mm)	A	2000	2000	3000	4000
Width (mm)	B	1370	1925	1370	1925
Length (mm)	C	550	550	550	550
Burner Protrusion (mm)	D	450	450	450	450
External Cabinet Dimension (mm)	E	428	428	428	428
Duct Connection Width (mm)	F	1310	1865	1310	1865
Duct Connection Height (mm)	G	1940	1940	2940	3940
	SL WMH	**300-2**	**400-2**	**600-3**	**800-4**
Heat Output	kW	300	400	600	800
Gas Consumption	m^3/hr	29.72	39.62	44.58	79.24
Gas Connection	BSP	3/4" x 2	1" x 2	3/4" x 3	1" x 4
Flue Connection	ø mm	130 x 2	150 x 2	130 x 3	150 x 4
Condensate Connection	ø inch	3/4"	3/4"	3/4"	3/4"
Electrical 230v/1PH/50Hz	Amps	5 x 2	5 x 2	5 x 3	5 x 4
Minimum Airflow	m^3/sec	5.4	7.36	11.04	14.72
Pressure drop at minimum airflow	Pa	109	98	98	98
Net Weight	kg	218	232	348	464

Supercell SL WMIH









Modular Heat Module

Mounted in the horizontal orientation allowing for compact stacking of the units to high heat output, ideal for retro on- site fitted in small mountable sections and compact design for limited access.

Combustion chamber and heat exchanger 304 stainless stel as standard.

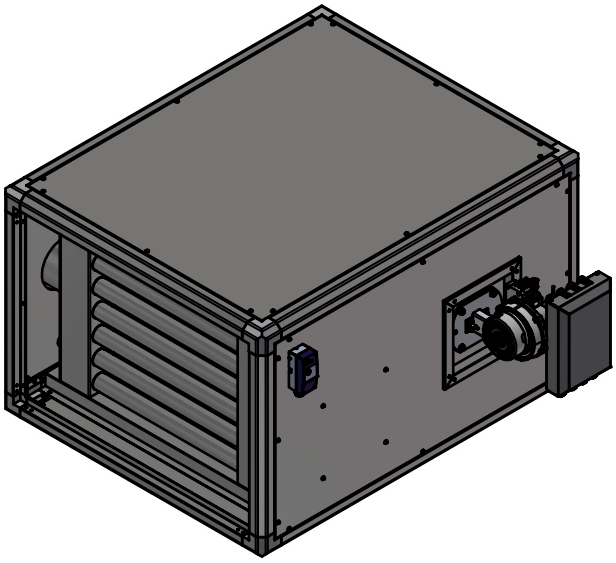
Condensing fully modulating 6:1 turndown with low NOx burners to reduce emissions and increase efficiency.

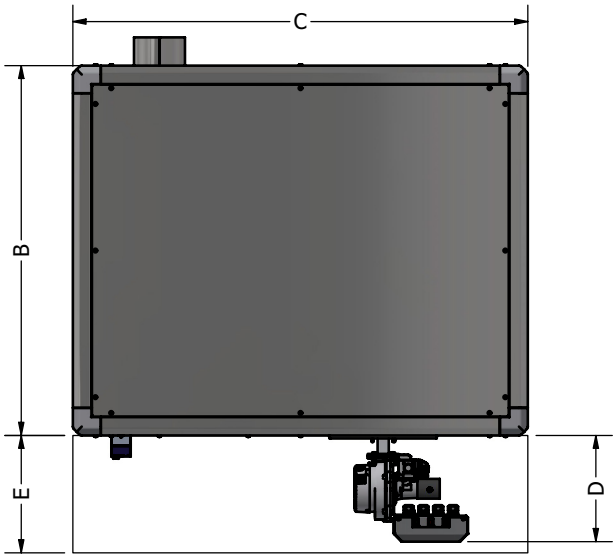
Industrial process high temperature option available.

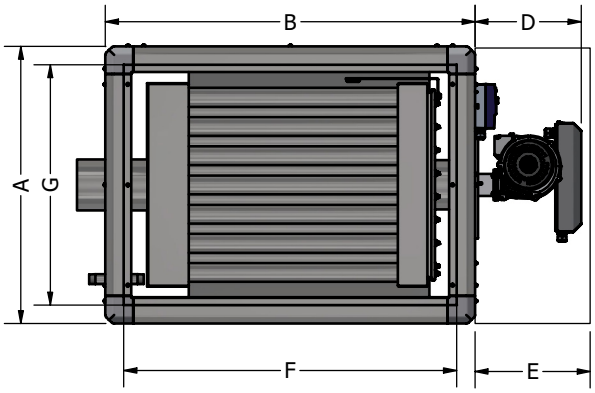
Horizontal - Single Module		30	45	60	90	120	150	200
Height (mm)	A	550	550	550	550	550	550	550
Width (mm)	B	600	1035	1035	1035	1370	1370	1925
Length (mm)	C	750	750	750	750	1000	1000	1000
Burner Protrusion (mm)	D	294	294	294	294	428	428	428
External Cabinet Dimension (mm)	E	350	350	350	350	450	450	450
Duct Connection Width (mm)	F	760	975	975	975	1310	1310	1865
Duct Connection Height (mm)	G	490	490	490	490	490	490	490
	SL WMH	**30**	**45**	**60**	**90**	**120**	**150**	**200**
Heat Output	kW	30	45	60	90	120	150	200
Gas Consumption	m^3/hr	2.97	4.46	5.94	8.92	11.89	14.86	19.81
Gas Connection	BSP	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	1"
Flue Connection	ø mm	100	130	130	130	130	130	150
Condensate Connection	ø inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Electrical 230v/1PH/50Hz	Amps	5	5	5	5	5	5	5
Minimum Airflow	m^3/sec	0.6	0.8	1.1	1.55	2.2	2.7	3.68
Pressure drop at minimum airflow	Pa	95	92	98	110	98	109	98
Net Weight	kg	65	79	85	90	98	109	116

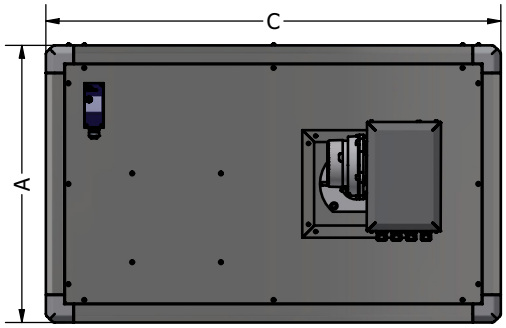
Horizontal - Multiple Modules		300-2	400-2	600-3	800-4
Height (mm)	A	1100	1100	1650	2200
Width (mm)	B	1370	1925	1370	1925
Length (mm)	C	1000	1000	1000	1000
Burner Protrusion (mm)	D	428	428	428	428
External Cabinet Dimension (mm)	E	450	450	450	450
Duct Connection Width (mm)	F	1310	1865	1310	1865
Duct Connection Height (mm)	G	1040	1040	1590	2140
	SL WMH	**300-2**	**400-2**	**600-3**	**800-4**
Heat Output	kW	300	400	600	800
Gas Consumption	m^3/hr	29.72	39.62	44.58	79.24
Gas Connection	BSP	3/4" x 2	1" x 2	3/4" x 3	1" x 4
Flue Connection	ø mm	130 x 2	150 x 2	130 x 3	150 x 4
Condensate Connection	ø inch	3/4"	3/4"	3/4"	3/4"
Electrical 230v/1PH/50Hz	Amps	5 x 2	5 x 2	5 x 3	5 x 4
Minimum Airflow	m^3/sec	5.4	7.36	11.04	14.72
Pressure drop at minimum airflow	Pa	109	98	98	98
Net Weight	kg	218	232	348	464

Supercell WMI Module









Condensing Heat Module

Ideal for higher heat outputs in one unit, one flue and one gas connection, reducing installation cost.

Combustion chamber and heat exchanger 304 stainless steel as standard.

45kW to 1000kW heat outputs, fitted with condensing fully modulating 6:1 turndown burners low NOx to reduce emissions and increase efficiency.

Ideal for replacement market and Air Handing Unit installation.

Industrial process high temperature option available.

Supercell WMI Module		45	60	90	120	150	180	210	260
Height (mm)	A	750	750	750	750	750	950	950	1132
Width (mm)	B	1000	1000	1000	1200	1200	1400	1400	1490
Length (mm)	C	1230	1230	1230	1230	1230	1230	1590	1590
Burner Protrusion (mm)	D	319	319	319	429	429	428	428	428
External Cabinet Dimension (mm)	E	344	344	344	451	451	451	451	451
Duct Connection Width (mm)	F	900	900	900	1100	1100	1300	1300	1390
Duct Connection Height (mm)	G	650	650	650	650	650	850	850	1032
Heat Output	kW	45	60	90	120	150	180	210	260
Gas Consumption	m^3/hr	4.46	5.94	8.92	11.89	14.86	17.83	20.80	25.76
Gas Connection	BSP	1/2"	1/2"	3/4"	3/4"	1"	1"	1"	1 1/4"
Flue Connection	ø mm	130	130	130	130	130	200	250	250
Condensate Connection	ø inch	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"
Electrical (Riello) Volts/Amps		240v/5A	240v/5A	240v/5A	240v/5A	240v/5A	240v/5A	240v/5A	240v/5A
Electrical(Burnertech) Volts/Amps		240v/5A	240v/5A	240v/5A	240v/5A	240v/5A	240v/5A	240v/5A	240v/5A
Minimum Airflow	m^3/sec	0.91	1.22	1.82	2.42	3.04	3.64	4.24	5.46
Pressure drop at minimum airflow	Pa	125	150	175	125	150	125	150	160
Net Weight	kg	190	195	195	228	232	320	340	384

Supercell WMI Module		300	350	450	600	700	800	900	1000
Height (mm)	A	1132	1132	1568	1568	1568	1950	1950	1950
Width (mm)	B	1490	2200	2450	2450	2450	3200	3200	3200
Length (mm)	C	1590	1590	2138	2138	2138	2650	2650	2650
Burner Protrusion (mm)	D	429	429	600	600	600	600	700	700
External Cabinet Dimension (mm)	E	451	451	625	625	625	625	725	725
Duct Connection Width (mm)	F	1390	2100	2350	2350	2350	3100	3100	3100
Duct Connection Height (mm)	G	1032	1032	1468	1468	1468	1850	1850	1850
Heat Output	kW	300	350	450	600	700	800	900	1000
Gas Consumption	m^3/hr	29.72	34.67	44.58	59.44	69.35	79.25	89.16	99.07
Gas Connection	BSP	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	2 1/2"	2 1/2"
Flue Connection	ø mm	250	250	300	350	350	400	400	400
Condensate Connection	ø inch	1"	1"	1"	1"	1"	1"	1"	1"
Electrical 230v/1PH/50Hz		240v/5A	2x240v /10A	2x240v /10A	415v/10A	415v/10A	415v/10A	415v/15A	415v/15A
Electrical(Burnertech) Volts/Amps		240v/5A	240v/10A	240v/10A	240v/10A	240v/10A	240v/10A	240v/10A	240v/10A
Minimum Airflow	m^3/sec	6.06	7.07	9.09	12.11	14.13	16.15	18.17	20.19
Pressure drop at minimum airflow	Pa	175	150	125	125	150	150	125	150
Net Weight	kg	392	520	876	970	1287	1461	1786	1984

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 poperate 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.

Warmatic

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