Technical submittal

Products: **Varmax mk2 275 & 320 kW**

Project:

Customer: Date:

- Improved efficiency on split temperature systems due to high and low temperature return connections.
- Non-dependent on system flow allowing wide differential temperatures.
- Easy installation with no requirement for dedicated primary circuit and no minimum flow rates.
- Quick and easy to disassemble with updated casing access.
- Tolerant to a wide range of system water conditions with a corrosion resistant stainless steel heat exchanger.
- Long life backed up by a 5-year heat exchanger warranty.
- Well insulated for low standby losses.
- NOx emissions comply with ErP legislation lower than 56mg/kWh.
- Match heating system loads accurately with outputs up to 637kW from a single boiler and ability to cascade multiple boilers.
- Simple flue system design as the flue gas non-return valve is built in to provide effective protection from re-circulation of flue gases through non-firing boilers.
- Built in boiler sequence controls capable of controlling up to 16 boiler modules, multiple heating circuits and a hot water circuit using the master/slave principle.

	Boiler model	Units	275	320
Energy	Building regulations Part L seasonal efficiency	% gross	96.2	96.2
	Boiler output – maximum 80/60°C, NG & LPG*	kW	269.5	313.6
	Boiler output – maximum 50/30°C, NG & LPG*	kW	290	338
	Boiler output – minimum 80/60°C, Nat Gas	kW	66	66
	Boiler input (gross) - maximum, NG & LPG*	kW	275	320
	Boiler input (net) – maximum, NG & LPG*	kW	248	288
Water	Water content	litres	239	239
	System design flow rate @ 30°C ΔT rise	l/s	2.1	2.5
	Water side pressure loss @ 30°C ΔT rise	mbar	36	53
	System design flow rate @ 20°C ΔT rise	l/s	3.2	3.7
	Water side pressure loss @ 20°C ΔT rise	mbar	110.6	127.3
	System design flow rate @ 11°C ΔT rise	l/s	5.8	6.8
	Water side pressure loss @ 11°C ΔT rise	mbar	271	393
	Maximum water pressure	barg	6	6
	Maximum flow temperature setting	°C	85	85
Gas	Gas flow rate natural gas (G20) - maximum	m^3/hr	29.1	33.9
	Maximum gas inlet pressure, Nat Gas	mbar	25	25
	Nominal inlet pressure, Nat Gas	mbar	20	20
Flue	Maximum flue gas temperature @ 80/60°C Nat Gas	°C	61.7	63.4
	Pressure at boiler flue spigot @ 80/60°C Nat Gas B23P	Pa	122	176
	Dry NOx emission**	mg/kWh	36	36
	NOx Class		6	6
Electrical	Electrical supply		230V 1Ph 50Hz	
	Power consumption – maximum boiler modulation	W	326	427
	Approx shipping weight	kg	502	502
	Noise emission @1m: @max. modulation	dB (A)	77	77

*390kW, 450kW, 525kW and 600kW models Nat Gas only **(0% excess oxygen, mg/kWh dry air free); NG/LPG

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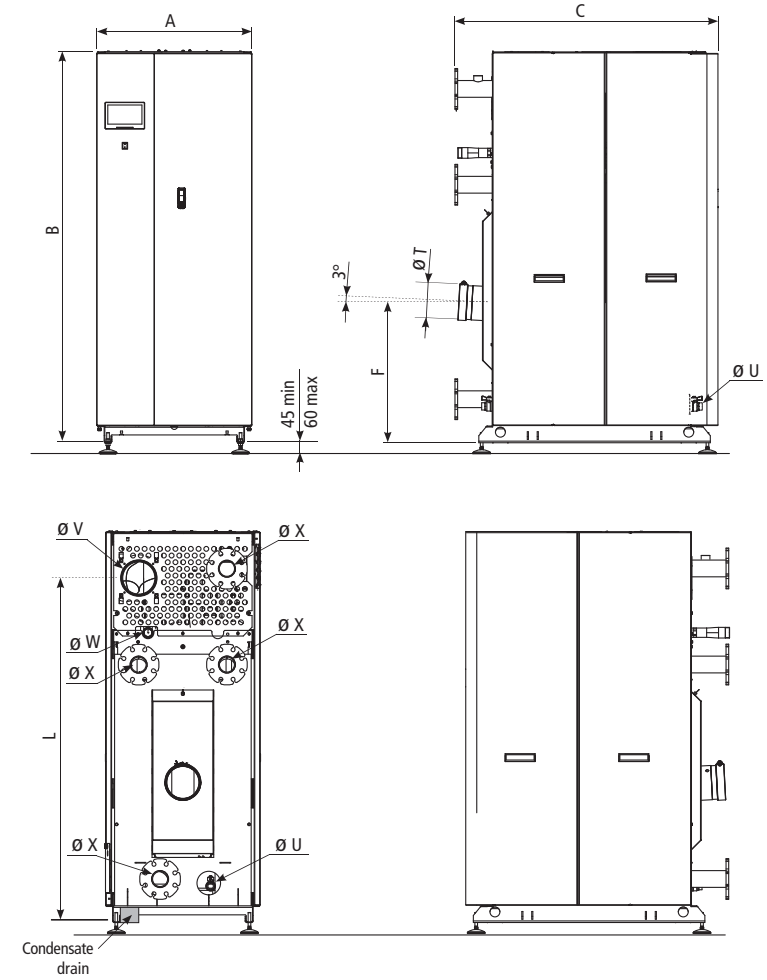
Dimensions



Note: *All dimensions in mm unless otherwise stated.*

For full dimensional info (connection heights etc), refer to manual.

Dimensions

Dimensions	Units	275	320
A Width	mm	800	800
B Height	mm	1877	1877
C Depth	mm	1320	1320
Front clearance	mm	600	600
Back clearance	mm	500	500
Top Clearance	mm	263	263
Side Clearance	mm	450	450
T Ø Flue Outlet	mm	180	180
U Ø Drain Connection (Male)		G 1"	G 1"
V Ø Air Inlet	mm	180	180
W Ø Gas Connection (Male)		R 2"	R 2"
X Ø Flow / Return Connection		DN80	DN80

Accessories and options:

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