the **HAMWORTHY** 

# 

**FLOOR STANDING BOILER** 





SCAN ME

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# Varmax mk2

Our no minimum flow Varmax boiler has had an upgrade! The improved Varmax mk2 features touch screen controls for simple, intuitive set up as well as new easy to remove casing for better service and

## **Key features**

maintenance access.

- Improved efficiency on split temperature systems due to high and low temperature return connections.
- Non-dependent on system flow allowing wide differential temperatures.
- Easier installation with no requirement for dedicated primary circuit and no minimum flow rates.
- Quick and easy to disassemble with updated casing access and access for maintenance or service.
- 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 450kW from a single boiler and ability to cascade multiple boilers.
- Simplified 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.
- BIM objects available to assist in design and management.

### 6 models 180-450 kW output



# Varmax mk2 Technical information

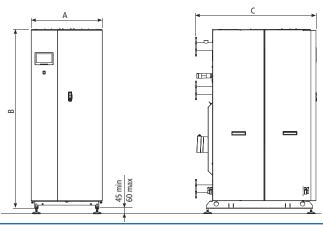
	Boiler model	Units	180	225	275	320	390	450		
Energy	Building regulations Part L seasonal efficiency	% gross	96.3	96.3	96.2	96.2	96.2	96.2		
	Boiler output – maximum 80/60°C, NG & LPG*	kW	175.9	219.8	269.5	313.6	382.3	441.9		
	Boiler output – maximum 50/30°C, NG & LPG*	kW	191	238	290	338	415	478		
	Boiler output – minimum 80/60°C, Nat Gas	kW	43	43	66	66	87	87		
	Boiler input (gross) - maximum, NG & LPG*	kW	180	225	275	320	390	450		
	Boiler input (net) – maximum, NG & LPG*	kW	162	203	248	288	351	405		
Water	Water content	litres	151	151	239	239	287	287		
	System design flow rate @ 30°C ΔT rise	l/s	1.4	1.7	2.1	2.5	3	3.5		
	Water side pressure loss @ 30°C ΔT rise	mbar	25	36	36	53	34	43		
	System design flow rate @ 20°C ΔT rise	l/s	2.1	2.6	3.2	3.7	4.6	5.3		
	Water side pressure loss @ 20°C ΔT rise	mbar	49.5	73.5	110.6	127.3	85	107		
	System design flow rate @ 11°C ΔT rise	l/s	3.8	4.7	5.8	6.8	8.3	9.5		
	Water side pressure loss @ 11°C ΔT rise	mbar	188	268	271	393	255	321		
	Maximum water pressure	barg	6	6	6	6	6	6		
	Maximum flow temperature setting	°C	85	85	85	85	85	85		
Gas	Gas flow rate natural gas (G20) - maximum	m³/hr	19.1	23.8	29.1	33.9	41.3	47.6		
	Maximum gas inlet pressure, Nat Gas	mbar	25	25	25	25	25	25		
	Nominal inlet pressure, Nat Gas	mbar	20	20	20	20	20	20		
Flue	Maximum flue gas temperature @ 80/60°C Nat Gas	°C	61	62.3	61.7	63.4	62.5	64.8		
	Pressure at boiler flue spigot @ 80/60°C Nat Gas B23P	Pa	115	165	122	176	180	193		
	Dry NOx emission**	mg/kWh	27	27	36	36	32	35		
	NOx Class		6	6	6	6	6	6		
Electrical	Electrical supply		230V 1Ph 50Hz							
	Power consumption – maximum boiler modulation	W	228	330	326	427	545	717		
	Approx shipping weight	kg	393	393	502	502	592	592		
	Noise emission @1m: @max. modulation	dB (A)	76	76	77	77	84	89		

<sup>\*390</sup>kW, 450kW, 525kW and 600kW models Nat Gas only

### **Dimensions**

Dimensions	Units	180	225	275	320	390	450
A Width	mm	706	706	800	800	900	900
B Height	mm	1780	1780	1877	1877	2023	2023
C Depth	mm	1194	1194	1320	1320	1369	1369
Front clearance	mm	500	500	600	600	700	700
Back clearance	mm	500	500	500	500	500	500
Top Clearance	mm	240	240	263	263	427	427
Side Clearance	mm	450	450	450	450	450	450

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



<sup>\*\*(0%</sup> excess oxygen, mg/kWh dry air free); NG/LPG





British engineering excellence from Hamworthy Heating; the commercial heating and hot water specialists.





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### **Hamworthy Heating Accreditations**

ISO 9001 Quality Management System ISO 14001 Environmental Management System ISO 45001 Health & Safety Management System

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