

Technical submittal



Products: **Wessex ModuMax mk3 WM147/294V**

Project:

Customer:

Date:

- ⊗ Stainless steel heat exchanger
- ⊗ 10:1 turndown ratio
- ⊗ Capable of 40°C differential temperature
- ⊗ Operates up to 90°C maximum flow temperature
- ⊗ 10 bar rated heat cell
- ⊗ 10-year heat exchanger warranty
- ⊗ 94.8% gross seasonal efficiency
- ⊗ 285.6kW output @80/60°C
- ⊗ Fits in a footprint of 680 x 1082mm
- ⊗ Passes through a standard doorway
- ⊗ 37.7 mg/kWh NOx emissions (natural gas)
- ⊗ Noise on minimum modulation of less than 47dba
- ⊗ Built-in controls platform with sequence control and capable of controlling up to 16 boiler modules and hot water circuits.
- ⊗ British manufactured



	Wessex ModuMax mk3 boiler model	Units	147/294V
	No. of modules		2
Energy	Building regulations Part L seasonal efficiency	% gross	94.8
	BS EN 15502 seasonal efficiency	% gross	95.2
	Boiler output 80/60°C, NG & LPG	kW	285.6
	Boiler output 50/30°C, NG & LPG	kW	294.8
	Boiler input (gross) - maximum, NG	kW	326
	Boiler input (gross) - maximum, LPG	kW	319.1
	Boiler input (nett) - maximum, NG & LPG	kW	293.6
	Boiler output - minimum 80/60°C, NG & LPG	kW	28.7
Water	Water content	litres	44
	System design flow rate @ 40°C ΔT rise	l/s	1.8
	Water side pressure loss @ 40°C ΔT rise	mbar	36
	System design flow rate @ 30°C ΔT rise	l/s	2.4
	Water side pressure loss @ 30°C ΔT rise	mbar	60
	System design flow rate @ 20°C ΔT rise	l/s	3.6
	Water side pressure loss @ 20°C ΔT rise	mbar	145
	System design flow rate @ 11°C ΔT rise	l/s	6.6
	Water side pressure loss @ 11°C ΔT rise	mbar	500
	Minimum water pressure	barg	
	Maximum water pressure	barg	10
	Maximum flow temperature setting	°C	90
Gas	Gas flow rate, NG (G20) - maximum	m³/hr	31
	Gas flow rate, LPG (G31) - maximum	m³/hr	12
	Nominal inlet pressure, NG (LPG) - maximum	mbar	20 (37)
	Maximum gas inlet pressure NG (LPG)	mbar	25 (45)
Flue	Approx. flue gas volume @ 15°C, 8.75-9.25% CO ₂	m³/hr	428
	Maximum flue gas temperature @ 80/60°C	°C	78
	Pressure at boiler flue connection	Pa mbar	150 1.5
	Dry NOx emission (0% excess oxygen, dry air free) - NG	mg/kWh	37.7
	Dry NOx emission (0% excess oxygen, dry air free) - LPG	mg/kWh	69.3
Connection	Water flow/return connections	inches	G2½" male
	Gas inlet connection pipe thread size	inches	R1¼" male
	Nominal flue diameter (I/D)	mm	250
	Condensate trap connection(s) (O/D)	mm	32
Electrics	Electrical supply		230V 1Ph 50Hz
	Power consumption - maximum boiler modulation	W	480
	Start current (per module)	Amp	1.3
	Run current (per module)	Amp	1.05
	Approx shipping weight	kg	452
	Noise emission @1m @maximum modulation	Max dB (A)	65
	Noise emission @1m @minimum modulation	Min dB (A)	47

*Dependent on ΔT - see full brochure

Every effort has been taken to ensure the details are accurate. Hamworthy Heating does not, however, guarantee the accuracy or completeness of any information nor does it accept liability for any errors or omissions in the information. Hamworthy Heating reserves the right to make changes and improvements which may necessitate alteration to product specification without prior notice.

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