

Technical submittal



Products: Wessex ModuMax mk3 WM116/348V

Project: Customer:

Customer: Date:

- Stainless steel heat exchanger
- 15:1 turndown ratio
- Ocapable of 40°C differential temperature
- Operates up to 90°C maximum flow temperature
- 10 bar rated heat cell
- 10-year heat exchanger warranty
- 93.1% gross seasonal efficiency
- 345.6kW output @80/60°C
- Fits in a footprint of 680 x 836mm
- Passes through a standard doorway
- 34.3mg/kWh NO_x 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
- O British manufactured



	Wessex ModuMax mk3 boiler model	Units	116/348V
	No. of modules		3
Energy	Building regulations Part L seasonal efficiency	% gross	93.1
	BS EN 15502 seasonal efficiency	% gross	93.4
	Boiler output 80/60°C, NG & LPG	kW	345.6
	Boiler output 50/30°C, NG & LPG	kW	348.7
	Boiler input (gross) - maximum, NG	kW	399
	Boiler input (gross) - maximum, LPG	kW	390.5
	Boiler input (net) - maximum, NG & LPG	kW	359.4
	Boiler output - minimum 80/60°C, NG & LPG	kW	23.5
Water	Water content	litres	48
	System design flow rate @ 40°C ∆T rise	l/s	2.1
	Water side pressure loss @ 40°C ∆T rise	mbar	7
	System design flow rate @ 30°C ∆T rise	l/s	3
	Water side pressure loss @ 30°C ∆T rise	mbar	14
	System design flow rate @ 20°C ∆T rise	l/s	4.2
	Water side pressure loss @ 20°C ∆T rise	mbar	27
	System design flow rate @ 11°C ∆T rise	l/s	7.8
	Water side pressure loss @ 11°C ∆T rise	mbar	91
	Minimum water pressure	barg	
	Maximum water pressure	barg	10
	Maximum flow temperature setting	°C	90
Gas	Gas flow rate, NG (G20) - maximum	m³/hr	38.1
	Gas flow rate, LPG (G31) - maximum	m³/hr	15
	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	480
	Maximum flue gas temperature @ 80/60°C	°C	83
	Pressure at boiler flue connection	Pa mbar	150 1.5
	Dry NOx emission (0% excess oxygen, dry air free) - NG	mg/kWh	34.3
	Dry NOx emission (0% excess oxygen, dry air free) - LPG	mg/kWh	57.3
Connection	Water flow/return connections	inches	G1½" male
	Gas inlet connection pipe thread size	inches	R1" male
	Nominal flue diameter (I/D)	mm	180
	Condensate trap connection(s) (O/D)	mm	32
Electrics	Electrical supply		230 V 1 Ph 50 Hz
	Power consumption - maximum boiler modulation	W	498
	Start current (per module)	Amp	1.2
	Run current (per module)	Amp	0.72
	Approx shipping weight	kg	540
	Noise emission @1m @maximum modulation	Max dB (A)	60
	Noise emission @1m @minimum modulation	Min dB (A)	47
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*Dependent on ΔT - see full brochure

*We only publish tested outputs for 80/60 and 50/30. The above output for 70/50 delta T is a calculated/ untested figure based on extrapolation of tested outputs.

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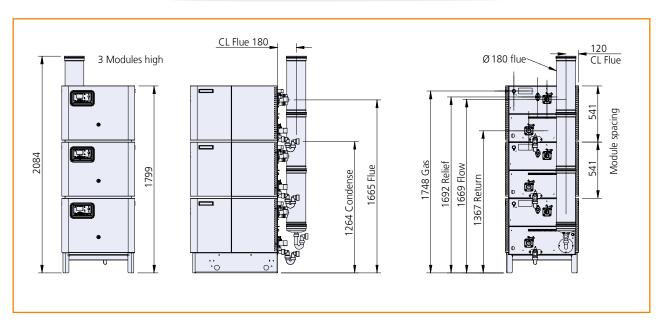
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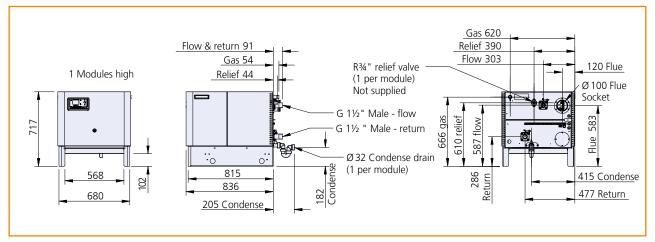


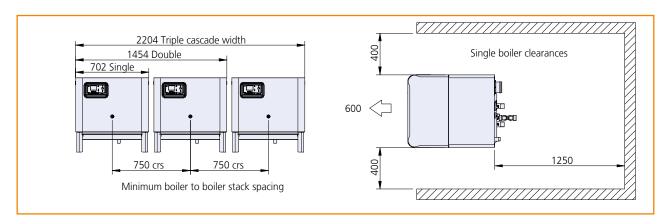
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