

Technical submittal

Products: **Upton UF450-3**

Project:

Customer:

Date:

- ⊗ Aluminium heat exchanger
- ⊗ 15:1 turndown ratio
- ⊗ 6 bar rated heat cell
- ⊗ 5-year heat exchanger warranty
- ⊗ 95.6% gross seasonal efficiency
- ⊗ 403.5kW output @80/60°C
- ⊗ Fits in a footprint of 700 x 940mm
- ⊗ Passes through a standard door width
- ⊗ 32mg/kWh NOx emissions gross (natural gas)
- ⊗ Noise at maximum modulation of 59.4dba
- ⊗ Built-in controls platform with sequence control and capable of controlling up to 16 boiler modules and hot water circuits
- ⊗ British manufactured



	Boiler model	Units	UF450-3
	No. of modules		3
Energy	Building Regulations Part L seasonal efficiency	% gross	95.6
	Building Regulations Part L seasonal efficiency	% nett	106.2
	Boiler output 80/60°C	kW	403.5
	Boiler output 50/30°C	kW	441.9
	Boiler input gross (maximum)	kW	463.8
	Boiler input nett (maximum)	kW	417.6
	Boiler output 80/60°C (minimum)	kW	26.9
	Boiler output 50/30°C (minimum)	kW	29.5
Water	Water content	litres	37.8
	System design flow rate @ 11°C ΔT rise	l/s	9.8
	Water side pressure loss @ 11°C ΔT rise	mbar	820
	System design flow rate @ 20°C ΔT rise	l/s	5.4
	Water side pressure loss @ 20°C ΔT rise	mbar	250
	Minimum operating water pressure	barg	0.5
	Maximum operating water pressure	barg	5.3
	Maximum water pressure	barg	6
	Maximum flow temperature setting	°C	85
Gas	Minimum flow temperature setting	°C	30
	Gas flow rate (maximum) (Nat gas)	m³/hr	44.2
	Nominal inlet pressure (Nat gas)	mbar	20
Flue	Maximum inlet pressure (Nat gas)	mbar	25
	Approx flue gas volume @ 72°C, 9.0% CO ₂	m³/hr	699
	Maximum flue gas temperature @ 80/60°C	°C	72
	Maximum flue gas temperature @ 50/30°C	°C	42
	Pressure available at flue connection	Pa (mbar)	150 (1.5)
	NO _{x,pond,Hs} (gross) emission (0% excess oxygen, dry air) (Nat gas)	mg/kWh	32
	NO _{x,pond} (nett) emission (0% excess oxygen, dry air) (Nat gas)	mg/kWh	36
Connection	NO _x Class		6
	Water flow/return connections	inches	R2-11
	Gas inlet connection pipe thread size	inches	G1¼
	Flue connection diameter (I/D)	mm	200
	Condensate trap connections (O/D)	mm	34
Electrics	Electrical supply		230V ~ 50Hz
	Power consumption - maximum boiler modulation	W	912
	Run current (per module)	Amp	1.3
	Approx shipping weight	kg	495
	Noise emission @1m @max modulation (per module)	Max dB (A)	59.4

*Dependent on ΔT - see full brochure

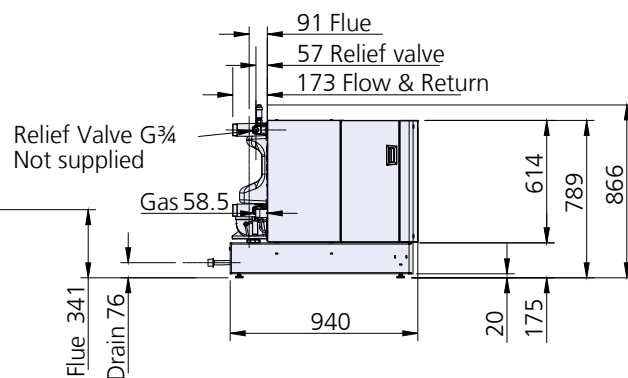
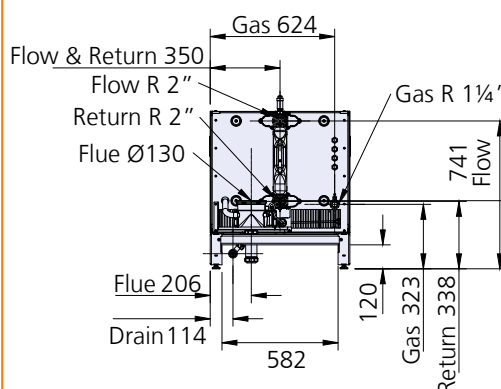
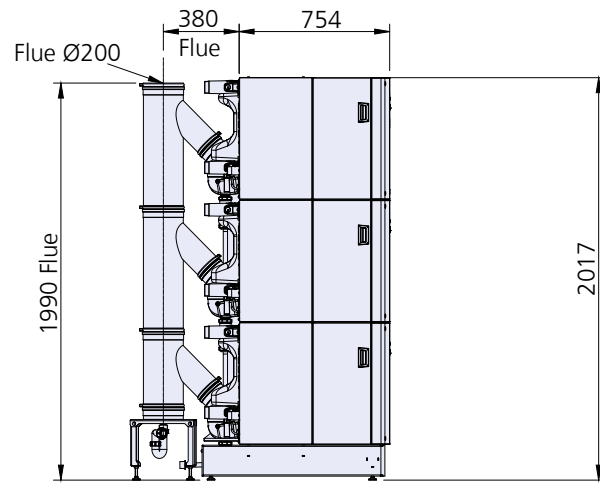
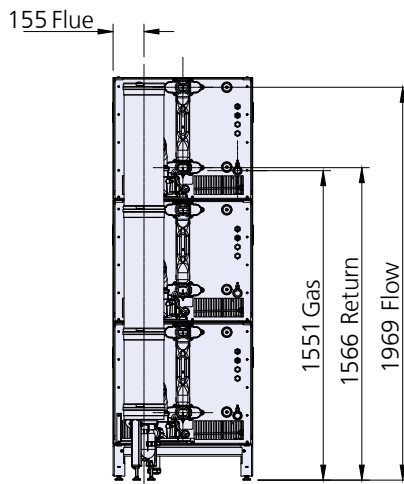
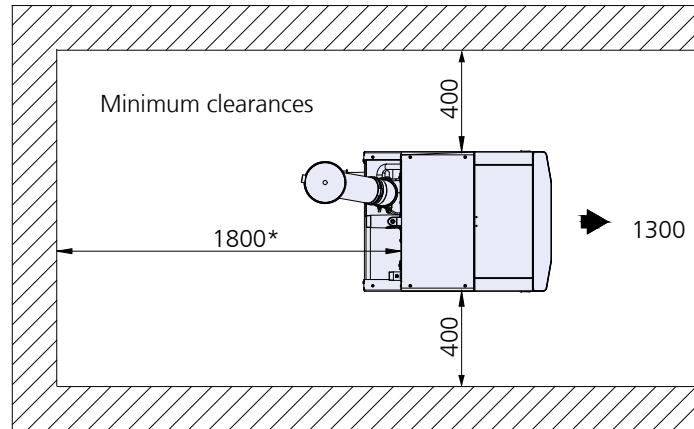
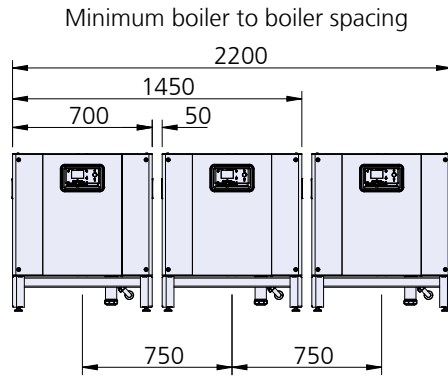
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*Note: Rear clearance required when using Hamworthy pipe kits.

All dimensions in mm unless otherwise stated.