

Technical submittal

Products: **Upton UF300-1**

Project:

Customer:

Date:

- ⊗ Aluminium heat exchanger
- ⊗ 5:1 turndown ratio
- ⊗ 6 bar rated heat cell
- ⊗ 5-year heat exchanger warranty
- ⊗ 95.6% gross seasonal efficiency
- ⊗ 273kW output @80/60°C
- ⊗ Fits in a footprint of 700 x 1127mm
- ⊗ Passes through a standard door width
- ⊗ 34mg/kWh NOx emissions gross (natural gas)
- ⊗ Noise at maximum modulation of 60.9dba
- ⊗ 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	UF300-1
	No. of modules		1
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	273
	Boiler output 50/30°C	kW	295.9
	Boiler input gross (maximum)	kW	314.6
	Boiler input nett (maximum)	kW	283.3
	Boiler output 80/60°C (minimum)	kW	54.6
	Boiler output 50/30°C (minimum)	kW	59.2
Water	Water content	litres	23.4
	System design flow rate @ 11°C ΔT rise	l/s	6.5
	Water side pressure loss @ 11°C ΔT rise	mbar	807
	System design flow rate @ 20°C ΔT rise	l/s	3.6
	Water side pressure loss @ 20°C ΔT rise	mbar	246
	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	30
	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	474
	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)	100 (1)
	NO _x pond,Hs (gross) emission (0% excess oxygen, dry air) (Nat gas)	mg/kWh	34
	NO _x pond (nett) emission (0% excess oxygen, dry air) (Nat gas)	mg/kWh	37
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	130
Electrics	Condensate trap connections (O/D)	mm	34
	Electrical supply		230V ~ 50Hz
	Power consumption - maximum boiler modulation	W	442
	Run current (per module)	Amp	1.9
	Approx shipping weight	kg	287
	Noise emission @1m @max modulation (per module)	Max dB (A)	60.9

*Dependent on ΔT - see full brochure

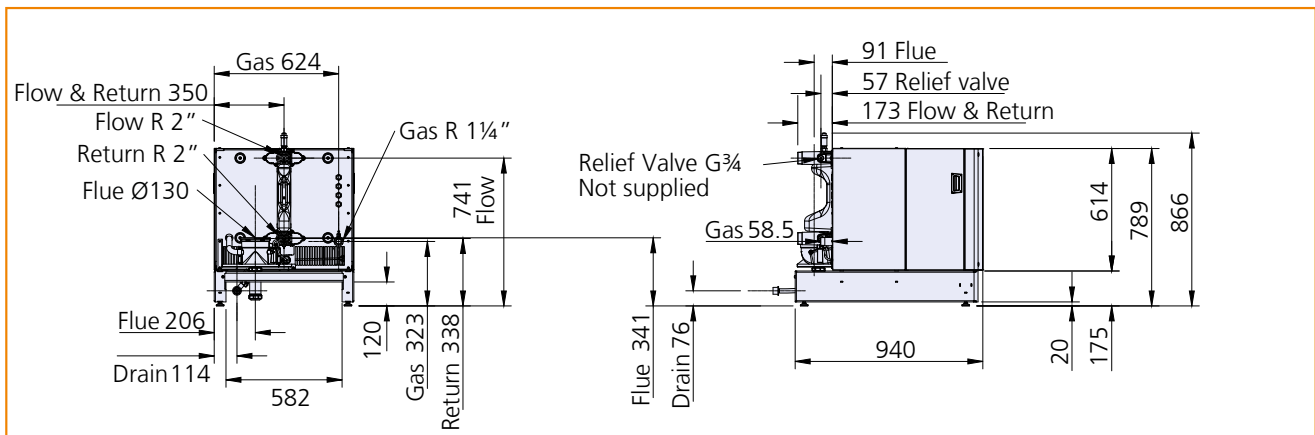
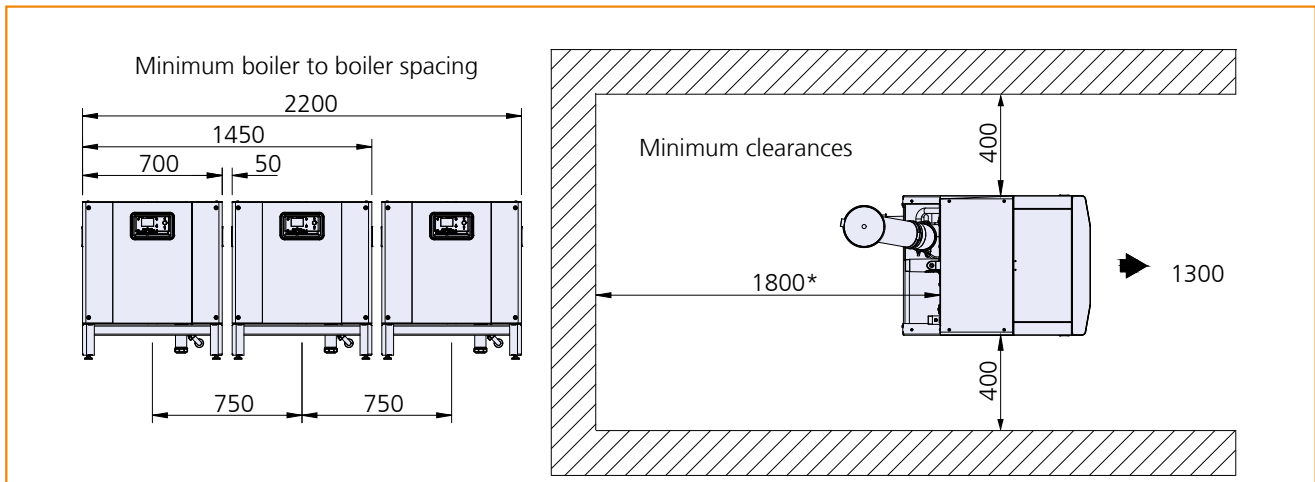
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*Note: Rear clearance required when using Hamworthy pipe kits.

All dimensions in mm unless otherwise stated.