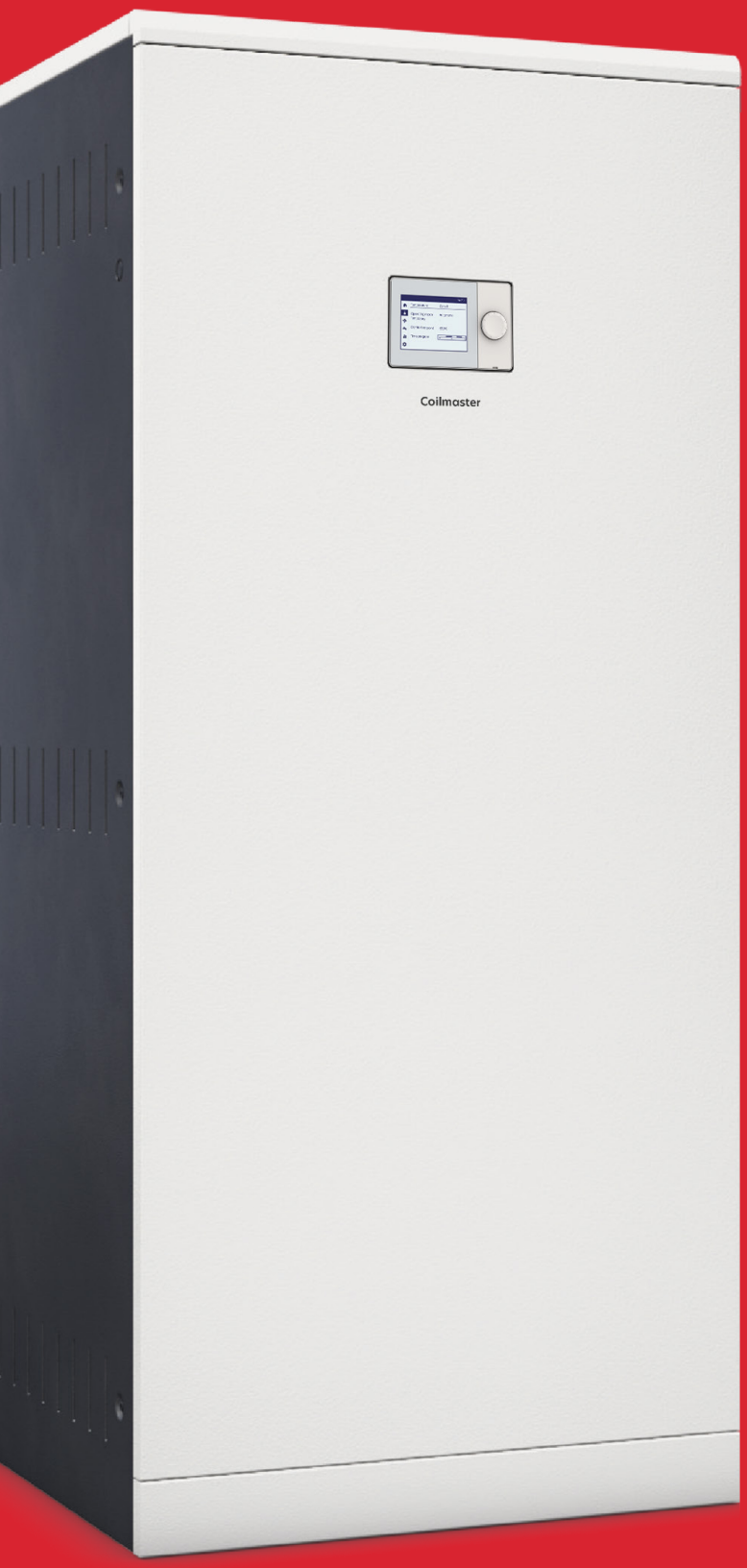
CoilMaster

floor standing gas fired water heater / boiler



MODELS

35

45

60

80

100

120

OUTPUT (kW)

37 - 124

modutherm

Coilmaster

The Coilmaster is a commercial, condensing, floor standing, combined gas fired water heater and boiler and is available in a range of 6 models from 37 - 124kW. With a highly durable stainless steel heat exchanger, designed for optimum efficiency (up to 108% net) and performance, the unit offers immediate response to hot water and heating demands. The Coilmaster has a modulation range up to 10:1 and with a small footprint makes it suitable for installation in areas with space constraints. It can be installed directly to the incoming MCW supply using matched un-vented kits, delivering mains pressure hot water continuously as required. The water heater has an advanced management controller, ensuring easy maintenance and flexibility.

5yr Heat Exchanger Warranty

Nat Gas LPG

Class A Water Heater Efficiency

key features

- Stainless steel heat exchanger
- Water heating efficiency Class A
- Water heating load profile XXL
- Class 6 NOx emissions
- High modulation ratio up to 10:1
- 0-10V Control
- Compact dimensions
- Stainless steel internal pipework
- Efficiency of up to 108% net
- Suitable for natural gas & LPG
- Low domestic hot water storage capacity with instantaneous demand
- First hour & continuous at 60°C up to 1830 l/hr

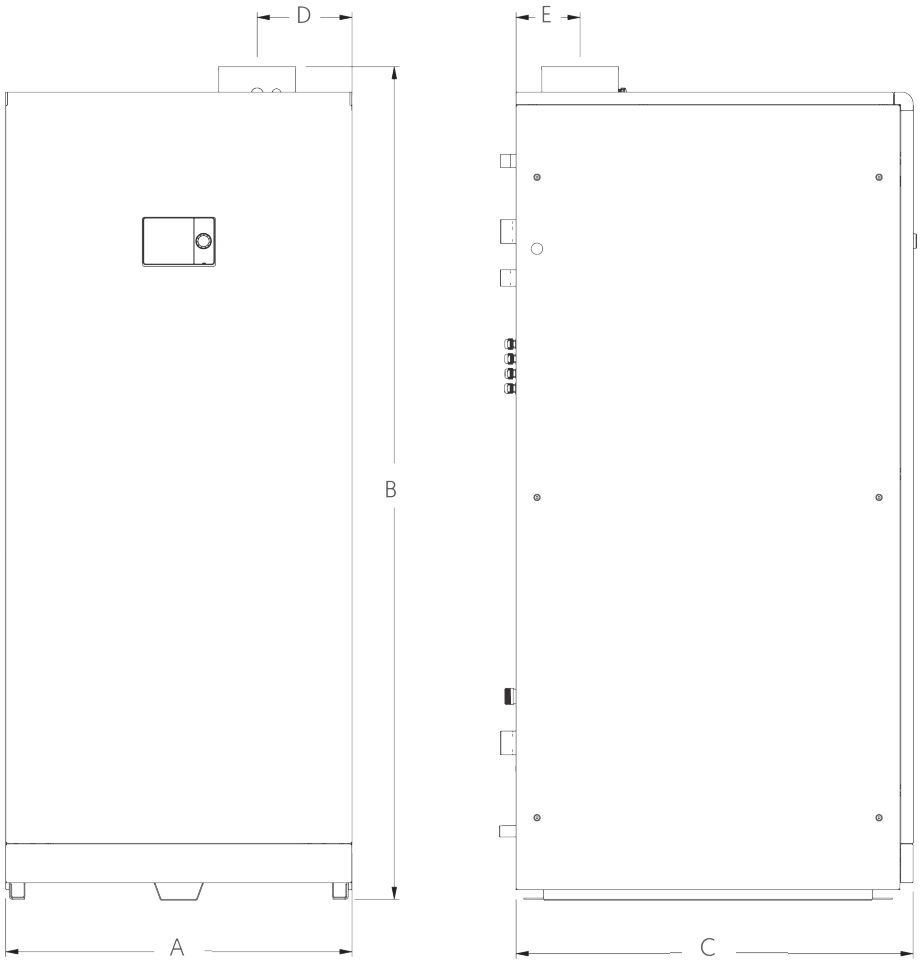
warranty

- 5 year warranty* on heat exchanger
- 2 year warranty* on parts

*subject to Terms & Conditions


air inlet and flue gas concentric connection
premix burner
stainless steel heat exchanger with additional DHW circuit
high efficiency circulation pump
condensate trap
stainless steel condensate dish

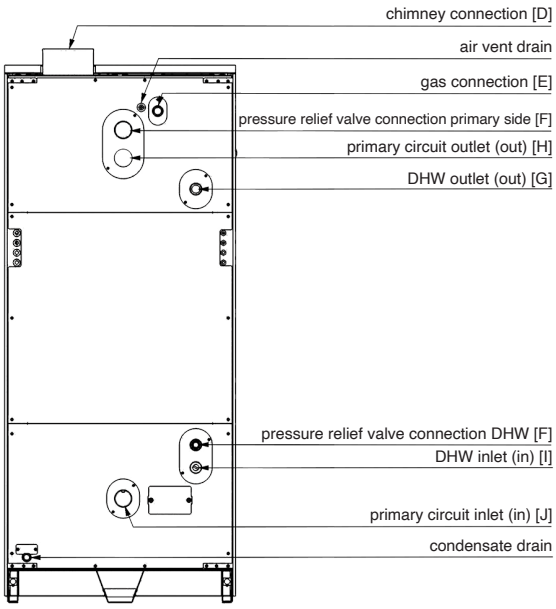
DIMENSIONS



FRONT VIEW

SIDE VIEW

	MODEL		
	35/45	60/80	100/120
A	602	632	698
B	1604	1446	1650
C	641	774	801
D	139	141	191
E	94	125	129



	MODEL		
	35/45	60/80	100/120
chimney connection [D]	80/125	100/150	100/150
gas connection [E]	½"	¾"	¾"
pressure relief valve connection primary side [F]	1"	1¼"	1¼"
pressure relief valve connection DHW side [F]	¾"	1"	1"
DHW outlet [G]	1"	1"	1"
primary circuit outlet [H]	1½"	1½"	1½"
DHW inlet [I]	1"	1"	1"
primary circuit inlet [J]	1½"	1½"	1½"

			MODEL					
			35	45	60	80	100	120
power	Maximum boiler output (80-60°C) - NG/LPG (G20/G31)	kW	34.0	43.9	55.9	77.8	97.2	112.9
	Maximum boiler output (50-30°C) - NG/LPG (G20/G31)	kW	37.6	48.4	61.6	85.9	106.9	124.2
	Minimum boiler output (80-60°C) - NG/LPG (G20/G31)	kW	4.9	4.9	9.2	9.2	12.1	12.1
	Minimum boiler output (50-30°C) - NG/LPG (G20/G31)	kW	5.4	5.4	10.3	10.3	13.4	13.4
	Maximum boiler input	kW	34.9	45.0	57.5	80.0	99.0	115.0
	Heat efficiency (50-30°C) - maximum output	%	107.8	107.6	108.0	108.0	108.0	108.0
	Standby losses	kW	0.20	0.20	0.20	0.20	0.30	0.30
	Modulation		7.0:1	9.0:1	6.1:1	8.4:1	7.9:1	9.2:1
	Building regs Part L seasonal efficiency (Non-dom. bldng)	%	95.7	95.7	95.5	95.5	95.8	95.9
	Seasonal efficiency	%	92.0	92.0	92.0	92.0	93.0	93.0
hydraulic	Water content - total	litres	54.2	54.2	81.0	81.0	108.0	108.0
	Water content - primary	litres	43.6	43.6	63.0	63.0	83.0	83.0
	Water content - secondary	litres	10.6	10.6	18.0	18.0	25.0	25.0
	System design flow rate (20°CΔT)	m³/h	1.51	1.93	2.46	3.42	4.14	4.86
	Water side pressure loss (20°CΔT)	kPa	14.5	16.0	5.5	10.4	5.3	7.1
	Minimum water pressure	bar	0.8	0.8	0.6	0.6	0.6	0.6
	Maximum water pressure	bar	3.0	30.	3.0	3.0	3.0	3.0
	Maximum flow temperature	°C	95.0	95.0	95.0	95.0	95.0	95.0
DHW performance	40°C (ΔT = 30K)	litres/min	17.8	22.0	27.2	37.2	47.5	54.5
	60°C (ΔT = 50K)	litres/min	10.0	12.5	16.3	22.3	26.0	30.5
	DHW Efficiency @ ΔT = 30K	%	104	104	104	104	104	104
gas	Gas flow rate, NG (G20) - maximum	m³/h	3.70	4.80	5.99	8.44	10.47	12.16
	Gas flow rate, LPG (G31-37mbar) - maximum	m³/h	1.43	1.81	2.34	3.25	4.05	4.56
	Maximum gas inlet pressure - NG (G20)	mbar	25.0	25.0	25.0	25.0	25.0	25.0
	Maximum gas inlet pressure - LPG (G31-37mbar)	mbar	45.0	45.0	45.0	45.0	45.0	45.0
	Nominal gas inlet pressure - NG (G20)	mbar	20.0	20.0	20.0	20.0	20.0	20.0
	Nominal gas inlet pressure - LPG (G31-37mbar)	mbar	37.0	37.0	37.0	37.0	37.0	37.0
	Minimum gas inlet pressure - NG (G20)	mbar	17.0	17.0	17.0	17.0	17.0	17.0
	Minimum gas inlet pressure - LPG (G31-37mbar)	mbar	25.0	25.0	25.0	25.0	25.0	25.0
flue	Flue gas temperature at 80/60°C	°C	49.0	57.5	53.8	55.1	62.3	63.2
	Flue gas temperature at 50/30°C	°C	27.3	28.9	28.3	28.8	31.6	32.4
	Max. flue gas pressure	Pa	180	180	190	190	300	300
	Mass flow rate of flue gasses	g/s	15.1	19.6	26.0	36.7	45.5	52.8
	Max. condensate volume	kg/h	4.9	7.8	7.1	10.0	12.4	14.4
	Dry NOx emission (0% excess O_2)	mg/kWh	24.3	24.3	30.3	30.3	39.7	39.7
electric	Electrical supply voltage/frequency/current	V/Hz/A	230/50/6	230/50/6	230/50/6	230/50/6	230/50/6	230/50/6
	Power consumption (max)	kW	0.045	0.086	0.070	0.150	0.257	0.300
	Power consumption (min)	kW	0.016	0.014	0.028	0.040	0.052	0.060
	Run current (max)	A	0.2	0.4	0.3	0.7	1.1	1.3
	Dry weight	kg	180	180	200	200	285	285

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*A member of the **Modular Heating Group**.*

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