



# CoilMaster

Floor standing gas fired water heater/boiler



MODELS

6

OUTPUT (kW)

37 - 124

# 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.



5

5 Year Heat Exchanger Warranty\*

2

2 Year Parts Warranty\*

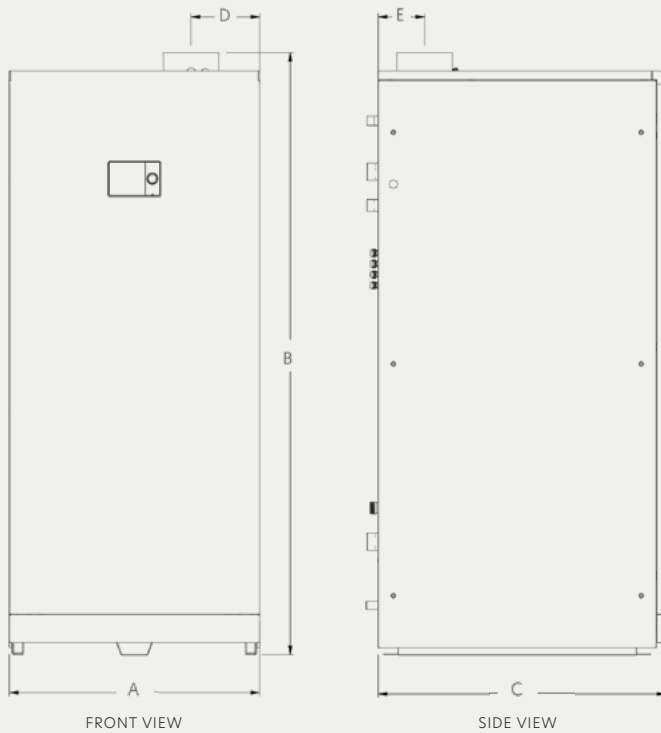
- Stainless steel heat exchanger
- Water heating efficiency class A
- Water heating load profile XXL
- Class 6 NOx emissions
- High modulation ratio up to 10:1
- 0-10V Control
- Compact dimensions

- 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

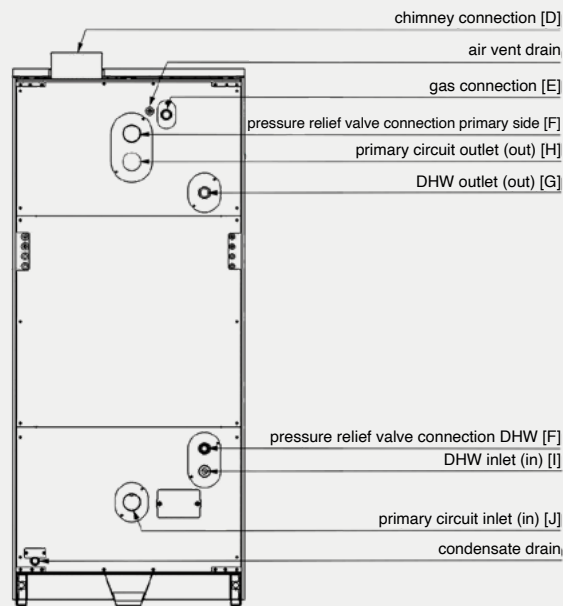
# Components



# Dimensions



	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



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

# Performance data

		35	45	60	80	100	120
<b>Power</b>							
Energy efficiency class		A			-		
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		9.2		12.1	
Minimum boiler output (50-30°C) - NG/LPG (G20/G31)	kW	5.4		10.3		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			
Standby losses	kW	0.20			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		95.5		95.8	95.9
Seasonal efficiency	%	92.0			93.0		
<b>Hydraulic</b>							
Water content - total	litres	54.2		81.0		108.0	
Water content - primary	litres	43.6		63.0		83.0	
Water content - secondary	litres	10.6		18.0		25.0	
System design flow rate (20°C ΔT)	m³/h	1.51	1.93	2.46	3.42	4.14	4.86
Water side pressure loss (20°C ΔT)	kPa	14.5	16.0	5.5	10.4	5.3	7.1
Minimum water pressure	bar	0.8		0.6			
Maximum water pressure	bar	3.0					
Maximum flow temperature	°C	95.0					
<b>DHW Performance</b>							
40°C (ΔT = 30K)	l/min	17.8	22.0	27.2	37.2	47.5	54.5
60°C (ΔT = 50K)	l/min	10.0	12.5	16.3	22.3	26.0	30.5
DHW Efficiency @ ΔT = 30K	%	104					
<b>Gas</b>							
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					
Nominal gas inlet pressure - NG (G20)	mbar	20					
Minimum gas inlet pressure - NG (G20)	mbar	17					
Maximum gas inlet pressure - LPG (G31-37mbar)	mbar	45					
Nominal gas inlet pressure - LPG (G31-37 mbar)	mbar	37					
Minimum gas inlet pressure - LPG (G31-37 mbar)	mbar	25					
<b>Flue</b>							
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
Maximum flue gas pressure	Pa	180		190		300	
Mass flow rate of flue gasses	g/s	15.1	19.6	26.0	36.7	45.5	52.8
Maximum condensate volume	kg/h	4.9	7.8	7.1	10.0	12.4	14.4
Dry NOx emission (0% excess O <sub>2</sub> )	mg/kWh	24.3		30.3		39.7	
<b>Electric</b>							
Electrical supply voltage/frequency/current	V/Hz/A	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
<b>Other</b>							
Dry weight	kg	180		200		285	

**Modutherm Limited**  
**Unit 4 Genesis**  
**Endeavour Drive**  
**Basildon, SS14 3WF**

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