COILMASTER

Performance			CM 35	CM 45	CM 60	CM 70	CM 80	CM 100	CM 120
Heat input (net)	G20 / G25 / G31	kW	4,5–34,9	4,5–45,0	9,5–57,5	9,5–69,9	9,5–80,0	12,5–99,0	12,5–115,0
Heat input (net)	G20Y20[2]	kW	4,3–33,0	4,3–42,6	9,0–54,4	9,0–66,2	9,0–75,7	11,8–93,7	11,8–108,9
Heat output at 80/60 °C	G20 / G25 / G31	kW	4,4–34,1	4,4–44,0					
Heat output at 80/60 °C	G20 / G25				9,2–56,1	9,2–68,2	9,2–77,8	12,1–97,2	12,1–112,9
Heat output at 80/60 °C	G20Y20[2]	kW	4,2–32,3	4,2–41,6					
Heat output at 50/30 °C	G20 / G25 / G31	kW	4,9–37,6	4,9–48,4					
Heat output at 50/30 °C	G20 / G25				10,3–61,6	10,3–74,9	10,3–85,9	13,4–106,9	13,4–124,2
Heat output at 50/30 °C	G20Y20[2]	kW	4,6–35,6	4,6–45,8					

Efficiency

Heating efficiency 80/60 °C	G20/G25	%	97,2–97,3	97,2–97,3	97,1–97,3	97,3–97,3	97,2–97,3	97,5–97,8	97,5–97,9
Heating efficiency 50/30 °C	G20/G25	%	108,3–107,8	108,5–107,6	108,2–107,2	108,0–107,2	108,4–107,4	107,7–108,0	107,7–108,0
Useful efficiency at 30% (return 30 °C)		%	108,3	108,5	108,2	108	108,4	108,2	108,2
Seasonal efficiency		%	92,4	93,0	92,4	92,3	93	93	93

Domestic Hot Water Performance [3]

Load profile	–	XXL	XXL	XXL	XXL	XXL	XXL	XXL
Peak flow at 40 °C first 10 minutes (storage temp. 80 C)	l/10'	130	153	204	232	254	322	358
Peak flow at 40 °C first hour (storage temp. 80 C)	l/60'	618	782	1005	1209	1369	1716	1977
Continuous flow rate 40 °C (ΔT = 30 K)	l/h	975	1258	1602	1955	2230	2786	3008
Continuous flow rate 50 °C (ΔT = 40 K)	l/h	731	944	1202	1466	1673	2090	2427
Continuous flow rate 60 °C (ΔT = 50 K)	l/h	585	755	961	1173	1338	1672	1942
100% useful efficiency in DHW mode	%	104	104					

(1) Operating conditions: DHW set point T = 80 °C, Cold water inlet T = 10 °C.
(2) Up to 20 vol.% hydrogen.
(3) 15 °C, 1.013,25 mbar, dry gas.

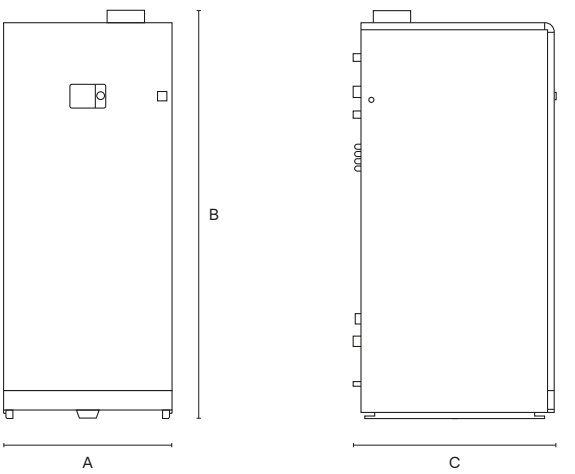
General			CM 35	CM 45	CM 60	CM 70	CM 80	CM 100	CM 120
Energy consumption		W	45	86	73	120	150	257	300
Supply voltage / Frequency / Current		V/Hz/A	230/50	230/50	230/50/6	230/50/6	230/50/6	230/50/6	230/50/6
Protection class		IP	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Seasonal space heating energy efficiency class			A	A	A	A	n/a	n/a	n/a
Water heating efficiency class			A	A	A	A	n/a	n/a	n/a
Gas category			I2E(S), I2E, I2Er, I2H, I3P, II2E3P, II2EK3P, II2ELL3P, II2Esi3P, II2H3P, II2L3P						
Gas type			G20–G20Y20[1]–G25–G25,3–G31						
Chimney type(s)			B23– B23p– C13– C33– C43– C53– C63– C83– C93						
Primary water content		l	43,6	43,6	63	63	63	83	83
Domestic hot water content		l	10,6	10,6	18	18	18	25	25
CO emission		mg/kWh	5,2	5,2	43,3	43,3	43,3	28,4	28,4
Gas flow rate	G20[3]	m^3/h							
Gas flow rate	G25[3]	m^3/h							
Gas flow rate	G31[3]	m^3/h							
Gas flow rate	G20Y20[2][3]	m^3/h							
NOx class			6	6	6	6	6	6	6
Max DHW operating temperature		°C	80	80	80	80	80	80	80
Max operating pressure heating (primary)		bar	3,0	3,0	3	3	3	3	3
Max operating pressure (DHW)		bar	8,0	8,0	8	8	8	8	8

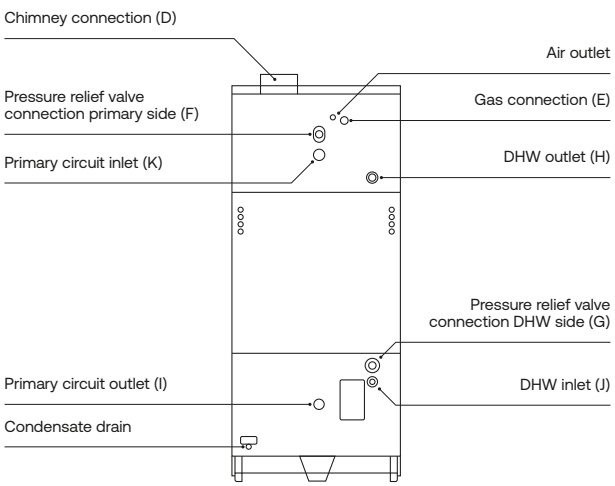
(1) Operating conditions: DHW set point T = 80 °C, Cold water inlet T = 10 °C.
(2) Up to 20 vol.% hydrogen.
(3) 15 °C, 1.013,25 mbar, dry gas.

Dimensions		CM 35	CM 45	CM 60	CM 70	CM 80	CM 100	CM 120
Width (A)	mm	600	600	632	632	632	700	700
Height (B)	mm	1605	1605	1398	1398	1398	1640	1640
Depth (C)	mm	640	640	775	775	775	805	805
Empty weight	kg	180	180	200	n/a	n/a	n/a	n/a

Connections

Chimney connection (concentric) (D)	mm	80/125	80/125	100/150	100/150	100/150	100/150	100/150
Gas connection (E)	inch	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Pressure relief valve connection primary side (F)	inch	1	1	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Pressure relief valve connection DHW side (G)	inch	3/4	3/4	1	1	1	1	1
DHW outlet (H)	inch	3/4	3/4	1	1	1	1	1
Primary circuit outlet (I)	inch	1	1	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
DHW inlet (J)	inch	3/4	3/4	1	1	1	1	1
Primary circuit inlet (K)	inch	3/4	1	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2





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