

- A⁺** 12 KW / 340 M³
- A⁺** 16 KW / 460 M³
- A⁺** 22 KW / 630 M³
- A⁺** 32 KW / 915 M³
- A⁺** 40 KW / 1145 M³
- A⁺** 50 KW / 1430 M³

EN 303-5 / BlmSchV 2
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Mareli Systems

STEP FORWARD



LCG
SOLID FUEL BOILER

The LCG is a gasification solid fuel boiler that combines high efficiency with a compact design. Available in four power levels, it is an ideal solution for small single-family homes as well as for heating commercial buildings.

The LCG is Eco Design and Carbon Neutral certified, guaranteeing environmental protection and minimal pollution release into the atmosphere.

MAIN FEATURES

🔥 Gasification process

LCG uses a gasification process, or so-called "pyrolysis", to break down the wood. Instead of being burned directly, it begins to smolder, releasing wood gas. Due to its greater weight, it is taken to the lower combustion chamber where it burns at temperatures between 1000 and 1200 degrees Celsius.

🔥 Intelligent management system

The system automatically adjusts the power of the boiler depending on the requirements of the installation.

🔥 High compatibility

The integrated controller can manage several pump/valve units as well as temperature sensors giving the client has maximum flexibility

🔥 High efficiency draft fan

It makes the system easy to use as the combustion process is constantly kept under control.

🔥 Large fuel loading chamber

It allows burning of firewood up to a length of 50 cm.

🔥 Compact and modern design

Alongside its high-tech equipment, the LCG also stands out for its contemporary look. Thanks to years of experience in designing heaters, Mareli Systems' engineers have optimized the internal layout of key components to achieve maximum power in a reduced size. The steel construction and ceramic heat-resistant lining ensure a long operating life and minimal heat loss.

🔥 High efficiency turbulator cleaning system.

🔥 Easy to use LCD display

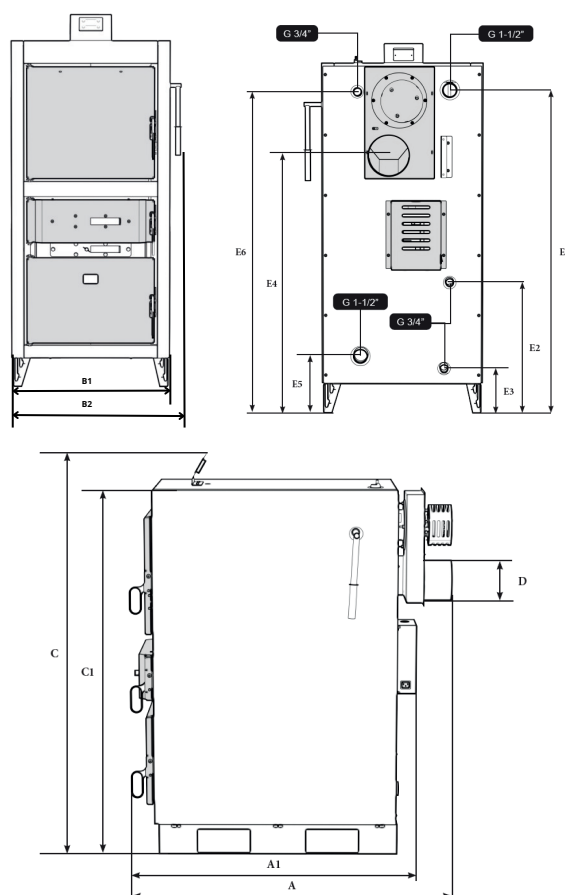
CERTIFICATION



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DIMENSIONS



KW/ MM	A	A1	B	B1	C	C1	D	E1	E2	E3	E4	E5	E6
12	1140	1021	563	490	1387	1280	Ø149	1180	430	165	943	210	1174
16	1140	1021	563	490	1387	1280	Ø149	1180	430	165	943	210	1174
22	1135	1016	663	590	1387	1280	Ø149	1180	480	165	943	210	1174
32	1185	1066	663	590	1387	1280	Ø149	1180	480	165	943	210	1174
40	1255	1136	663	590	1387	1280	Ø149	1180	480	165	943	210	1174
50	1255	1136	663	590	1537	1430	Ø149	1330	630	165	1093	210	1324

LCG



TECHNICAL DATA

		12	16	22	32	40	50
Nominal heat output	kW	12	16	22	32	40	50
Heat output range	kW	12	16	11-22	16-32	20-40	25-50
Boiler class EN 303-5:2021	-	5					
Required chimney under-pressure	Pa	12					
Water amount in boiler	L	104	104	120	130	140	150
Exhaust gas temperature at nominal heat output	°C	120	140	165	160	150	150
Exhaust gas temperature at minimal heat output	°C	-	-	100	100	100	95
Minimum operating time at rated power (nominal Q)	H	3					
Min. inlet water temp. at the boiler supply water connection	°C	60					
Maximum water temperature	°C	90					
Fuel moisture content	%	max. 25					
Fuel type	A. wood logs, by norm 14964-5						
Fuel length	mm	500	500	500	500	500	500
Fuel loading chamber capacity	L	69	69	103	103	103	136
Combustion chamber type	Under-pressure						
Required minimum volume of water accumulation tank next to boiler	by EN 303-5:2021						
Supply voltage	V~	230					
Frequency	Hz	50					
Weight	kg	376	376	424	449	479	526
Max. operating pressure	bar	3					
Flue gas tube - external diameter	mm	149					
Heating appliance working	With a fan						
Heating appliance working	Under non-condensing conditions						
Energy efficiency class of boiler	A+						

Durable combustion chamber

It is made out of high quality refractory material, ensures a very long combustion area which reduces emissions.



Easy cleaning

The boiler is constructed in a way that allows easy and quick cleaning of the residual ash from the combustion process.

* The specified heated volumes m³ are indicative.