



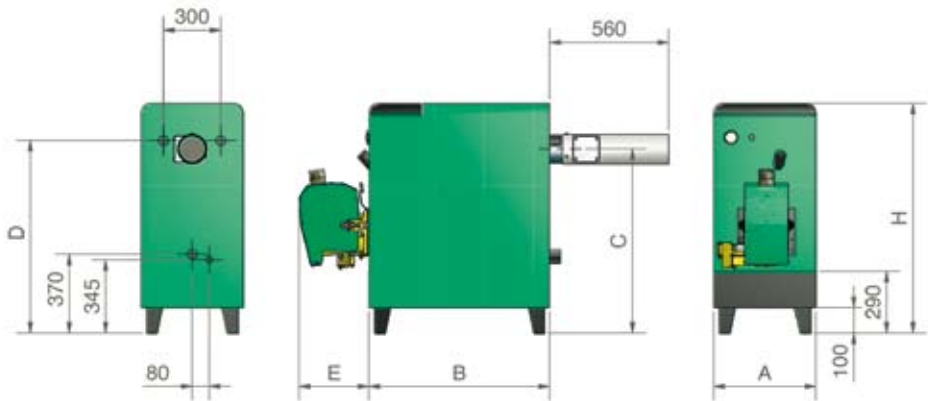
Operation and Maintenance Pellet boiler MiniQ



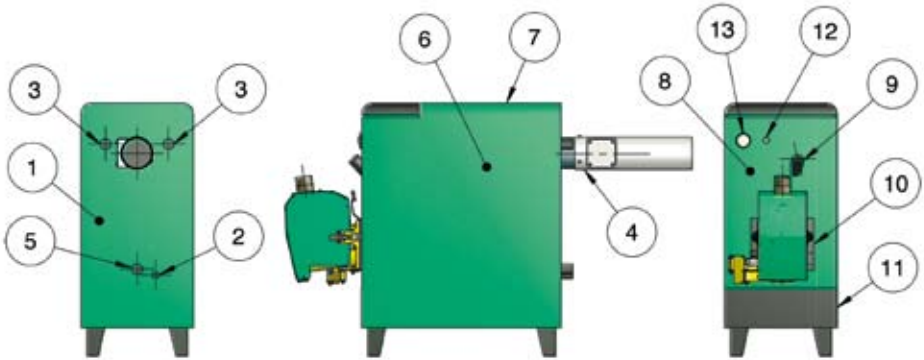
Approval
as per
EN303-5



TECHNICAL DATA



Parameters	Unit	Boiler output [kW]	
		20	25
Required chimney draught	Pa	10 - 15	
Flue gas temperature	°C	140 - 180	
Boiler efficiency	%	Approx. 90	
Insulation	cm	5 - mineral wool	
Fuel type	-	Wood pellets	
Max. working pressure	MPa	0.25	
Max. water temperature	°C	95	
Chimney connection	mm	Ø 130	Ø 130
A	mm	480	480
B	mm	855	855
C	mm	845	895
D	mm	905	955
E	mm	380	380
H	mm	1080	1130
Riser connection	R"	1"	
Return water connection	R"	1"	
Drain valve	R"	1/2 "	
Boiler weight (without water)	kg	186	197
Boiler water volume	l	55	60



1. The boiler's rear plate
2. Drain valve
3. Riser connection
4. Chimney connection
5. Return water connection
6. Side plate
7. Top plate
8. Front plate
9. Inspection hole
10. Connection – burner
11. Removable ash drawer
12. Max. thermostat reset
13. Manometer/boiler temperature indicator

MiniQ is a charging boiler. It is used in systems with an accumulator tank.

The charging boiler has a small water capacity, so that the water can be heated up rapidly before being stored in the accumulator tank.

EcoTec MiniQ holds just 55 litres of water, ensuring minimal losses during downtime.

User information:

The boiler

An EcoTec MiniQ is designed for firing with pellets. Wood burning is not possible due to the design of the boiler.



Combustion

The combustion process in the boiler is controlled by an external pellet burner. The burner must be installed by an authorised installation engineer, to ensure optimum set-up of the combustion process. A correctly set-up burner yields better economy and less impact on the environment.

See the burner manual for installation, setting and maintenance information.



Convection

The flue gases in the boiler are cooled by the tubes running vertically down into the firebox, after which they pass out via the flue pipe.



Soot removal

Your boiler must be regularly cleared of soot, at least once a quarter or more often depending on how much it is used. To clear the soot, insert the accompanying flue brush into the tubes and use it to scrape off all the soot. Brush soot off the boiler walls and any other areas where it may accumulate. Finish by emptying the ash drawer into a non-flammable container.



Dismantling, scrapping

Your boiler will last for many years, but please follow applicable regulations when the time comes for dismantling and scrapping.



INSTALLATION INFORMATION

The boiler room

The boiler room must comply with applicable building standards. Ensure a good air supply by having an air inlet equivalent in size to the flue pipe area.



Chimney

EcoTec MiniQ has a flue pipe connection to the rear. Differing chimney heights and types, wind and position may affect its drawing capacity. You should have a vacuum of 10-15 Pa in the boiler to achieve a good function. The chimney should be at least 120 mm in diameter. The flue pipe connection must have a damper.



Flue pipe connection for damper, to the rear.

Item no. for damper (optional): 1234-00



Flue pipe connection for damper, upwards (optional).

Item no. for pipe: 8701-00

Item no. for damper: 1234-00

Connection

Pipe installation must be carried out in accordance with applicable heating and hot-water standards.

Temp. sensor for controlling charging units in submerged pipes together with sensors for thermometers and operating temperature.



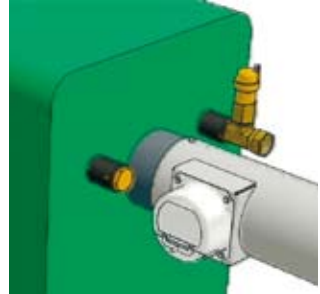
Filling

The most suitable method of filling is through a charging pipe fixed to a connecting pipe that flows into the boiler. If necessary, the boiler can be filled by connecting a hose to the filling point on the boiler. Once the system has been filled, it must be vented.



Ventilation

Recommendation: Connect the boiler's riser pipe to an automatic ventilating valve.



Expansion vessel

The boiler must always be connected to an expansion vessel. With an open system, the volume must be 5% of the system volume, and with a sealed system, 10%.



Safety valve

The system must always be fitted with a safety valve, the pressure must not exceed 1.5 bar.



Positioning

The boiler must be positioned on a stable surface; remember that one side must be accessible for servicing and soot removal. The boiler must be horizontal.



The green fire



Our corporate vision is simple: A local approach, satisfied customers and a concern for the environment. We work with authorised distributors who offer a full service. Our quality approach is based on high levels of technical skill and constant development. We manufacture burners with an output between 7 kW and 300 kW. We are confident that we can offer you the best products on the market and a reduction in your heating costs.

We regard pellets as today's fuel, not as the fuel of the future. The earth's resources are not unlimited and our environment will not withstand everything it is exposed to. For this reason it is important to invest in renewable, environmentally friendly, cheap sources of energy. If you have any thoughts about our products, you are welcome to call, fax or write to us.

**EcoTec värmesystem AB, PO Box 2103,
SE-511 02 Skene, Sweden
info@ecotec.net, www.ecotec.net.**

EcoTec has ISO 14001 environmental certification.