

WOOD GASIFICATION BOILER HVG

FOR LOW-POLLUTION, HIGH-EFFICIENCY COMBUSTION

The wood gasification boiler HVG (wood gasification= in German "Holzvergasung") is the ecologically sensible alternative form of heating that means the user need not forgo the ease of operation and comfort of modern oil or gas-based systems. An ingenious ventilation system guides the exhaust gas into a secondary combustion chamber and ensures that the lowest layer of fuel is always entirely burned and therefore put to effective use. The fully automated system optimises the combustion process itself and adapts it to the amount of fuel and the desired heating output.

- High efficiency of up to 93 %
- Integrated microprocessor control with lambda logic
- Automatic rapid heating-up when system cold
- Large-size filling chamber
- Minimal combustion residue keeps cleaning work down
- Straightforward and easy to operate
- Very sturdy structure guarantees lengthy operating life

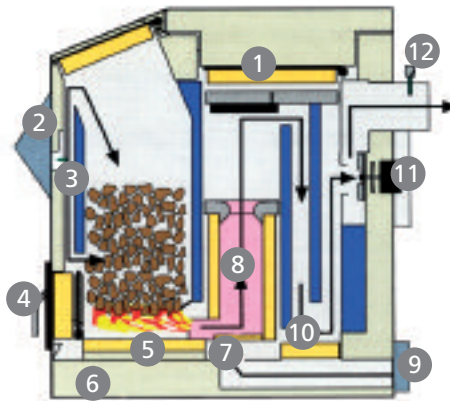


"Bottom burn-off: 93 % efficiency"

In traditional wood-fired stoves, the exhaust gases flow upwards. Combustion and gasification of the wood therefore take simultaneously and are difficult to control. Modern wood gasification boilers, by contrast, operate according to the "bottom burn-off" principle. An additional air supply below the glowing fire separates the gasification and combustion processes and directs the exhaust gas into a secondary combustion chamber. This, coupled with an improved combustion chamber geometry, makes wood gasification boilers considerably more efficient.

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1. Heat shields
2. Lambda logic
3. Primary air control
4. Stoking door
5. Fireclay grid
6. Insulation
7. Secondary air supply
8. Exhaust-gas temperature sensor/ Lambda oxygen sensor
9. Induced-draught fan
10. Space for fly ash
11. Secondary air control
12. Hot combustion chamber



Technical data

Model	HVG-15	HVG-34	HVG-48
Rated heat output (kW)	15	34	48
Rated heat output range (kW)	15	17-34	24-48
Boiler's water capacity (ltr.)	64	95	100
Max. permitted boiler pressure (bar)	3.0	3.0	3.0
Boiler's required feed pressure (Pa)	12	15	15
Max. flow temperature (°C)	90	90	90
Exhaust gas temperature 75/60 (°C)	120	146-196	193-228
Exhaust gas mass flow rate (kg/h)	36	42-73	57-102
Chopped wood length (mm)	500	500	500
Filling capacity of fuel chamber (ltr.)	92	130	182
Electrical connection	230 V/ 50 Hz/ 10 A		
Height (mm)	1360	1300	1300
Width (mm)	680	770	770
Depth (mm)	970	1360	1430
Weight (kg)	452	665	775



A Product of

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