

## FHG Turbo 3000 – state of the art log boilers

### Modern design blends form and function

The Fröling range of log boilers combines clean good looks with cutting edge combustion technology and unrivalled build quality, all at an extremely competitive price.

### Designed to minimise time for loading and cleaning

Even the smallest Fröling boiler has a large hopper door for easy feeding of half-metre split logs and coarse chippings, while a combustion chamber depth of 56 cm means that there is no problem whatsoever even if the split logs are a little too long. The large combustion chamber (140 - 260 litre) allows long top-up intervals (depending on output, up to 20 hours and more). The combustion chamber is fitted with "hot cladding", thus preventing the usual formation of pitch and tar.

### Integral induced draft fan for easy, efficient operation

In order to guarantee maximum operating comfort, the FHG Turbo 3000 is fitted with a compact integrated induced draught fan. This means that the boiler can be started without difficulty even with a cold chimney. Heating-up problems and smoke escape - phenomena common in boilers without induced draught fans - are completely unknown in this boiler. In addition, the induced draught fan stabilises combustion over the entire combustion period, thereby permitting absolutely trouble-free operation. Once the boiler has burnt out, the primarily air and secondary air sliding gates close and the fan switches off. This means that the residual embers remain for a long time, and the boiler can easily be restarted without a new heating-up process.

### Inbuilt extraction system for smoke-free operation

A further interesting detail is a special combustion gas extraction system. This guarantees that no smoke at all can escape, even during refilling, whatever the combustion stage, ensuring that the boiler room remains clean and smoke free.

### EOS technology for high efficiency and easy cleaning

For best ever performance the appliance is fitted with the Efficiency Optimisation System (EOS). This accessory consists of special turbulators within the heat exchange pipes and fitted with a vibration mechanism for convenient cleaning of the heating surfaces from outside. This means that there is no need to brush the heat exchanger surfaces manually so the boiler can be cleaned with a minimum of effort, and without creating dust or dirt. Clean heating surfaces means a high level of efficiency and lower fuel consumption.



## Easy and efficient operation

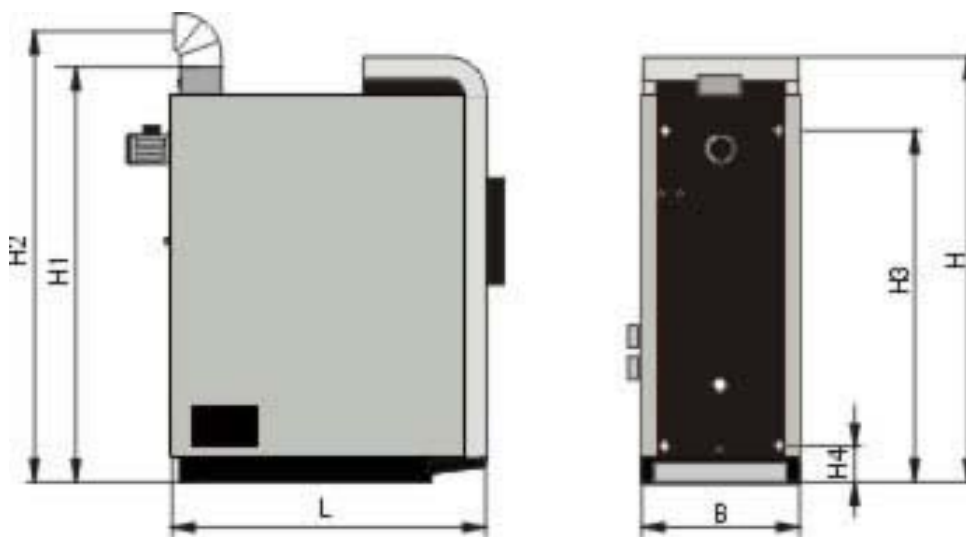
- large combustion chamber accepts split logs up to half a meter long and / or coarse chippings
- extremely long burning times of up to 20 hours
- dual block system - combustion and heat exchanger are completely separate
- patented high-temperature vortex chamber
- electronically controlled induced draught fan
- modular control concept with Lambdatronic microprocessor controls
- EOS technology for extremely high efficiency, up to 91.8%<sup>1</sup>
- special combustion gas extraction to prevent any smoke escape
- all-round full insulation, extremely low radiation losses (0.66%<sup>1</sup>)

## Lambdatronic controls package

- modulating output control by precisely regulating the speed of the induced draught fan
- automatic adjustment to different fuels
- combustion optimisation by lambda sensor exhaust gas analysis and adjustable exhaust gas temperature
- optimum buffer storage management with output-dependent load via temperature difference control and speed control of the feed pumps
- residual heat use by controlling the return flow pump
- weather-controlled heating adjustment for regulating up to four mixer circuits
- easy to use menu-based user interface

## Technical specification

FHG Turbo 3000	20	30	40	50	70
L	1160	1160	1260	1260	1260
B	570	570	680	680	790
H	1600	1600	1700	1700	1730
H1	1560	1560	1660	1660	1690
H2	1750	1750	1850	1850	1910
H3	1275	1275	1375	1375	1440
H4	140	140	140	140	140
Combustion chamber (l)	140	140	210	210	260
Flue gas pipe	150	150	150	150	150
Output (kW)	20	30	40	50	70
Boiler weight (kg)	520	525	606	608	810



<sup>1</sup> As tested by Austrian Federal Institute of Agricultural Engineering, Wieselburg, Record No. 014/95