



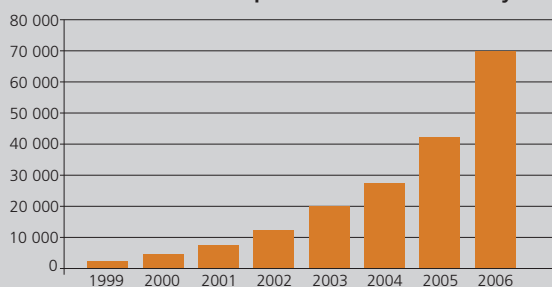
# WOOD PELLET BOILER BPH

CLEAN, EFFICIENT HEATING THAT USES BIOMASS

Pellets are manufactured by the wood processing industry, where this raw material mostly occurs as a by-product. Ultramodern control technology inside the system makes wood pellet boilers an extremely efficient, low-emission heating technology. The core element is an oxygen sensor, because the oxygen levels determine the heating performance. On the basis of the sensor's data, the appropriate amount of pellets is introduced automatically and the air supply regulated. On wood pellet boilers, the storage space, feed system (suction system) and combustion process form a single, enclosed system, making heating a very clean affair altogether.

- Standard utilisation ratio up to 96 %
- Integrated automatic cleaning function for burner, heat exchanger and boiler
- No buffer store required
- Variable installation options thanks to versatile control technology and large-dimensioned suction system
- Oxygen sensor and air mass sensors for optimum combustion
- Low power consumption for pellet feed

Total amount of wood pellet boilers in Germany



Source: www.dev.de

## Wood pellet boilers – a growth market

The Scandinavians already have over 20 years of experience in wood pellet boilers, however this heating technology only recently started to make inroads into other European countries. Around 26,000 new wood pellet boilers were installed in Germany in 2006, thus a total of 70,000 such systems are now in operation there. Since August 2007, the German government furthermore subsidises wood pellet boilers by 36 €/ kW, at least 1.500 €. A further advantage is, fuel costs for the pellets nowadays are half of gas or heating oil costs.

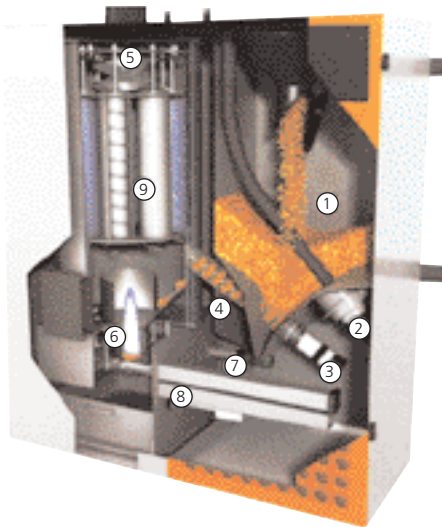


The competence brand for energy saving systems

A Product of

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# WOOD PELLET BOILER BPH



- ① Daily supply tank
- ② Suction turbine
- ③ Screw drive
- ④ Feed screw
- ⑤ Oxygen sensor
- ⑥ Stainless steel burner
- ⑦ Automatic ignition
- ⑧ Air volume sensor
- ⑨ Heat exchanger

A suction turbine brings the pellets from the store room to the boiler's daily supply tank. From there, the pellets are transported to the combustion chamber by a speed-controlled feed screw, the necessary combustion air is introduced and the pellets are automatically ignited.

## Technical data

Model	BPH-10	BPH-15	BPH-25	BPH-35
Rated heat output (kW)	9.2	14.9	25	35
Rated heat output range (kW)	2.4-9.2	4.5-14.9	6.7-25	8.5-35
Boiler's water capacity (ltr.)	25	50	80	120
Max. permitted boiler pressure (bar)	3.0	3.0	3.0	3.0
Boiler's required feed pressure (Pa)	5	5	5	5
Max. flow temperature (°C)	80	90	90	90
Exhaust gas temperature at full load (°C)	95	125	120	97
Exhaust gas mass flow rate (g/s)	5.3	9.0	15	22
Volume of supply tank (ltr.)	40	50	100	200
Electrical connection	230 V/ 50 Hz/ 10 A			
Height (mm)	1480	1425	1600	1850
Width (mm)	905	1060	1305	1305
Depth (mm)	615	820	820	820
Weight (kg)	270	330	410	430



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