

## VITOLIGNO 300-H

Pellet and woodchip boiler  
60 to 150 kW



Efficient combustion on a flat moving grate

### Unique two-stage combustion principle

The Vitoligno 300-H solid fuel boilers for pellets and woodchips extends the comprehensive range of products and services from Viessmann in the lower output range from 60 to 150 kW.

The combustion principle utilising a flat moving grate and a rotary combustion chamber is unique. These features ensure consistently low emissions and compliance with the Federal Immissions Act (BImSchV) [Germany].

### Efficient combustion on a flat moving grate

A screw conveyor fills the flat moving grate continuously with pellets or woodchips. Whilst the ember bed is static, the moving grate ensures an even pre-combustion and degassing with a sub stoichiometric air supply.

The variable feed velocity of the long grate and the even flow of fresh air from below through the ember bed dry the fuel, subject to its grain size and moisture content, as well as its effective degassing (primary combustion).

### High efficiency through rotary combustion chamber

The combustion gases released during primary combustion are then routed into the rotary combustion chamber. The rotation results in a longer dwell time and an effective mixing of combustion gases and secondary air. As a result, the Vitoligno 300-H achieves an almost complete burnout (secondary combustion), lower emissions and a high efficiency of 92 percent.

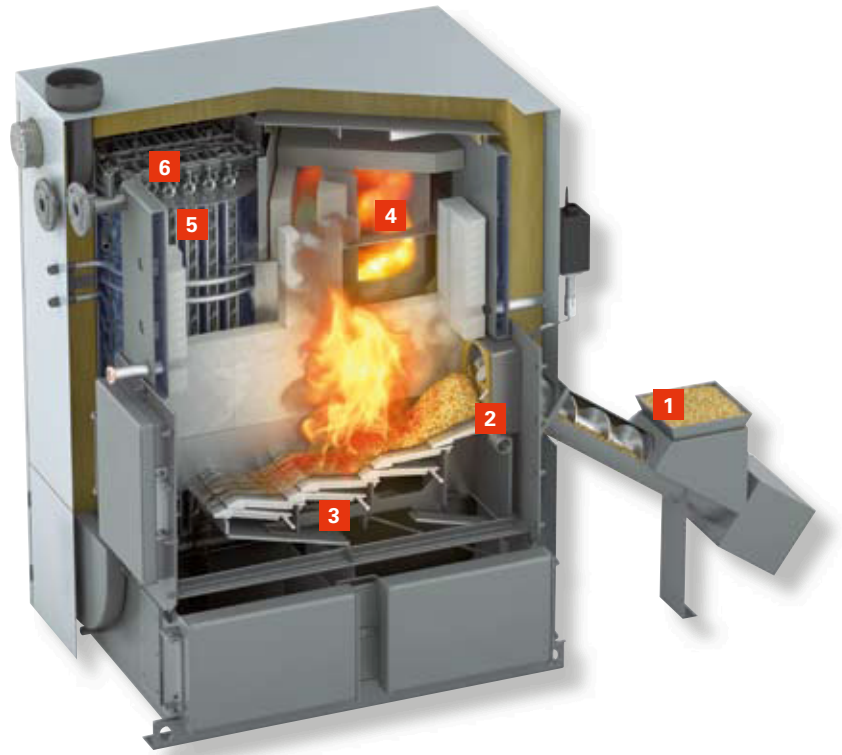
### Compact and easy to maintain

The vertical arrangement of the heating surfaces makes the Vitoligno 300-H a solid fuel boiler with genuinely compact dimensions. The automatic cleaning of the heating surfaces increases the boiler availability, extends the maintenance intervals and reduces the operating costs.



## Vitoligno 300-H

- 1 Fuel supply
- 2 Automatic ignition
- 3 Flat moving grate
- 4 Rotary burner
- 5 Vertical heat exchanger
- 6 Automatic cleaning



Pellets



Woodchips

### Benefits at a glance

- Staged combustion in the primary and secondary combustion chambers for consistently high efficiency and clean combustion (BlmSchV)
- Flat moving grate for drying and degassing fuels of different grain size and moisture content (G50, W35, pellets, woodchips)
- Flexible supply (screw conveyors, horizontal, vacuum discharge)
- Automatic ignition and combustion control with Lambda probe and temperature sensor
- Negative pressure boiler prevents the combustion of low temperature carbonisation gas in the fuel supply
- Automatic cleaning of the heating surfaces and fully automatic ash removal improve the availability and increase the maintenance intervals
- Ecotronic control unit with graphic display for a high level of operating convenience
- Compact dimensions
- Use in public buildings, municipal authorities, residential developments, tourism (hotels, leisure facilities), agriculture/forestry and the wood-processing trade

### Specification

- Vitoligno 300-H, 60, 80, 100, 120, 150 kW
- Modulation ratio 1:3
- Boiler efficiency: > 92 %
- Dimensions (height x width): 1700 x 800 mm (up to 80 kW)  
1950 x 1000 mm (from 100 kW)
- Weight: 1500 kg

Available: 09/2011