

PYRTEC

Underfeed combustion 1,250 kW

EN

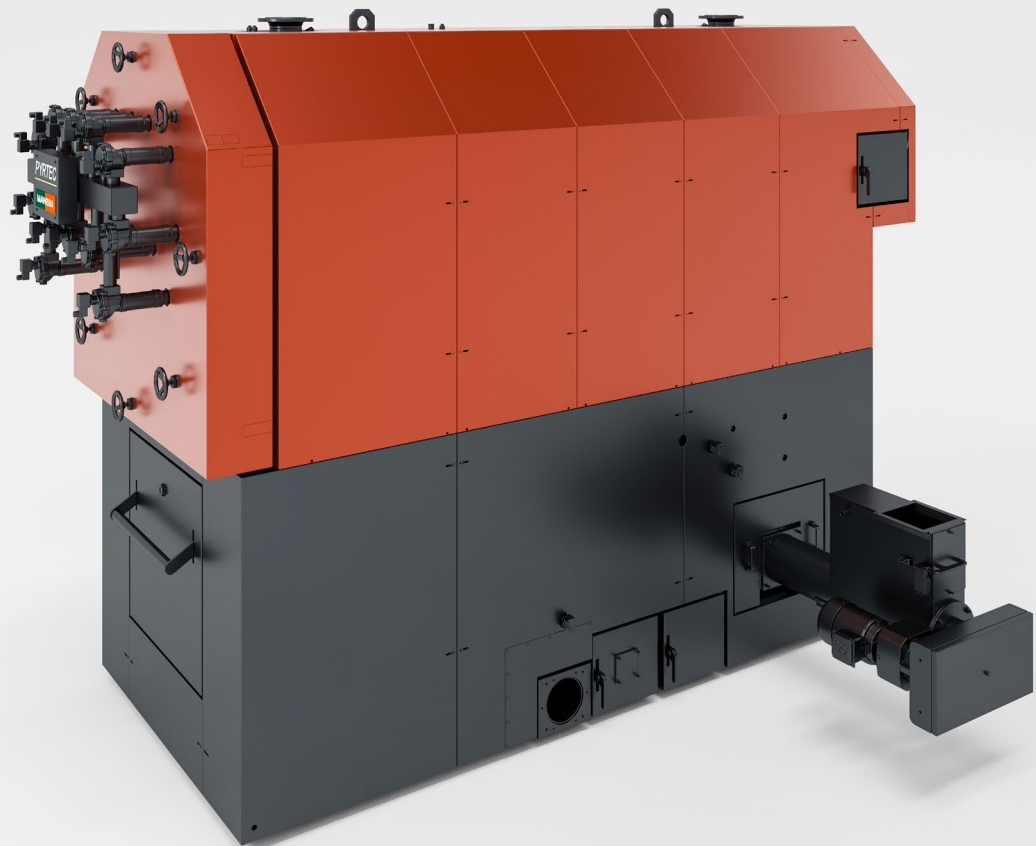


FUELS: Pellets, Woodchips, Wood Shavings
and Mixed wood

WOOD COMBUSTION SYSTEM

PYRTEC

Underfeed combustion 1,250 kW



»The moving infeed grate, proven combustion retort and sloping external grate in the PYRTEC optimally combine the benefits of infeed and underfeed combustion.«

Underfeed combustion

The moving infeed grate, proven combustion retort and sloping external grate in the PYRTEC optimally combine the benefits of infeed and underfeed combustion. A feed screw conveyor guides the wood fuel into the combustion retort, where it is pre-dried. The fuel is completely degassed on the external grate and the moving infeed grate. The wood gases are then burned with the aid of a regulated supply of secondary air.

Clean and efficient combustion

The combustion technology of the PYRTEC achieves low emission values (particularly for CO and NOx). Operation with modulating output control and the optimised combustion principle enables efficiency levels of up to 92 percent.

Top quality design and construction

The PYRTEC wood boiler features high quality construction for use under the toughest conditions (high fuel flexibility from M10 to M50). The inside of the combustion chamber is lined with pressed fireclay bricks with a high clay content for greater durability. All grate elements are high quality, heavy gauge chromium steel castings that can withstand very high temperatures. A distinguishing feature of the PYRTEC wood boiler is its proven three-pass heat exchanger, providing maximum heat transfer and exceptional efficiency.

Boiler control

The boiler control unit is fully programmable and regulates both the system and the modulating output. It regulates all variable speed fans and activates the fuel charging unit, and monitors:

- Flow and return temperatures of the wood boiler
- Light barriers on the supply system
- Pressure sensor for reliable negative pressure
- Flue gas temperature
- Combustion chamber sensor (upper temperature limit)
- Oxygen content in the flue gas (Lambda probe)

PYRTEC

Underfeed combustion 1,250 kW

Design and performance



Take advantage of these benefits:

- Fully automatic biomass combustion system with grate combustion 1,250 kW
- For the use of wood fuels with a water content of 5 to 50%
- High efficiency of up to 92%
- Modulating load control from 30 to 100%
- 3-pass flame tube boiler, modulating load control and regulated primary and secondary air supply
- Easy servicing thanks to fully automatic ash removal and optional pneumatic cleaning system
- Highly developed safety equipment ensures safe and reliable operation
- Optimum system output results from the design and delivery of all system components from a single source
- Automatic ignition precludes the need for firebed maintenance and saves fuel (optional – only for fuels with moisture content below 40%)

TYPE	POWER RANGE*
1250	417 to 1,250 kW

1250 417 to 1,250 kW

*depends on fuel and water content

MODEL		1250
Rated heating output	kW	1,250
Dimensions SE		
Length	mm	4,702
Width	mm	1,730
Height	mm	3,273
Max. operating pressure	bar (ü)	6

Rated heating output kW 1,250

Dimensions SE

Length mm 4,702

Width mm 1,730

Height mm 3,273

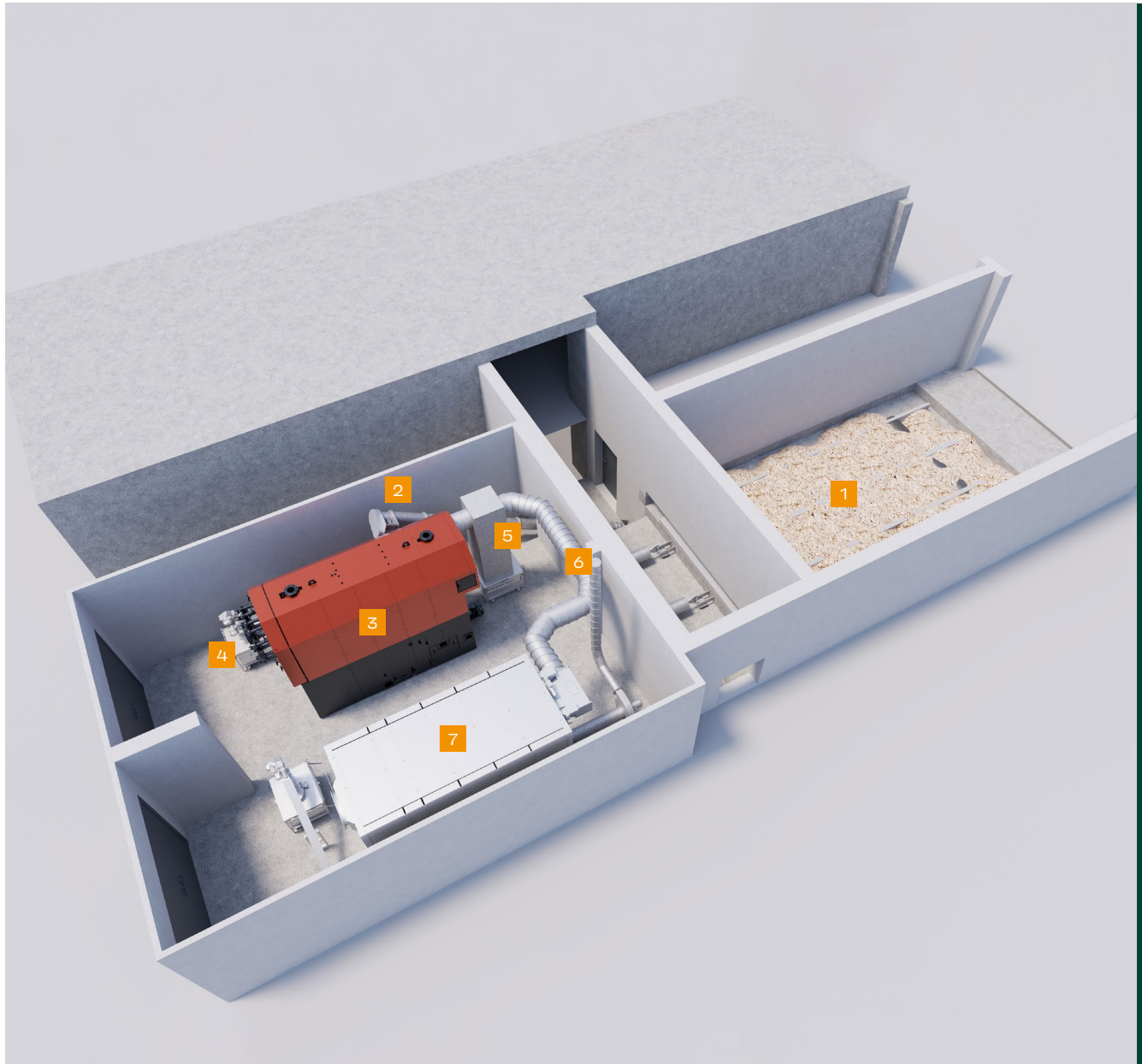
Max. operating pressure bar (ü) 6

SE = Screw feed

PYRTEC

Underfeed combustion 1,250 kW

System example



1 Fuel storage with moving floor discharge

2 Fuel transport with screw conveyor system

3 Combustion: PYRTEC

4 Pneumatic boiler cleaning system

5 Flue gas cleaning with multicyclone dust separator incl. ash removal

6 Flue gas duct

7 Fine dust separation with electrostatic precipitator incl. ash removal

OPTIONAL ACCESSORIES:

- Automatic ignition device
- Various combustion chamber pocket variants
- Displacement rods for the combustion chamber
- Compressor for pneumatic boiler cleaning (up to 720 kW)

Example: District Heating

- Combustion: PYRTEC
- Output: 530 kW
- Fuel: natural wood chips

Application areas PYRTEC:



Woodworking industry



Local and district heating



Municipal and public property



Hotels and hospitality industry



Plant nurseries

Fired up for energy from biomass.

Schmid Mawera Group

Austria:

Neulandstraße 30

6971 Hard

T +43 5574 7 43 01-0

Switzerland:

Hörnlistrasse 12

Postfach 42

8360 Eschlikon

T +41 71 973 73 73

Contact:

info@schmid-mawera.com

www.schmid-mawera.com

Social:

facebook.com/schmidmawera

instagram.com/schmid_mawera_group

linkedin.com/company/schmid-mawera