



Pellet heating system PZ100RL

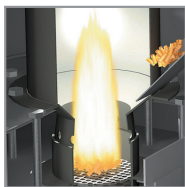
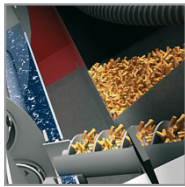
Range of performance: 24,30 - 99,9 kW
Electric connection: 230 VAC / 50 Hz, 16 A

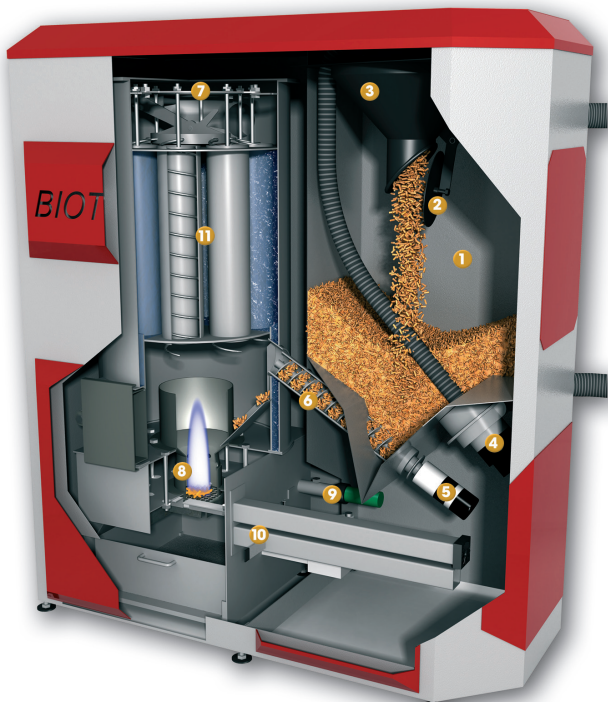
Model consisting of:

- ✓ Boiler body with efficient winding insulation
- ✓ Temperature resistant tubular heat exchanger with automatic cleaning
- ✓ Burning system made of heat resistant stainless steel with automatic cleaning
- ✓ 2 great dimensioned ash box including ash compression, content 2 x 42 ltr.
- ✓ Speed-controlled suction draught, primary and secondary air blower
- ✓ Automatic ignition for pellets
- ✓ Pellet intermediate reservoir including strainer (with notification for fullness) and suction turbine
- ✓ Lambda probe and air mass sensors (primary and secondary air)
- ✓ Microprocessor regulation with graphic screen for menu navigation
- ✓ Contact for external demand
- ✓ Assembly and operation manual
- ✓ Incl. outside temperature probe

Specific features:

- ✓ Remote maintenance via BCL module mobile SMS
- ✓ Request and amendment of parameters via BHZS visualisation software
- ✓ Operation unit is removable and can be used as room regulation device
- ✓ Easy placement into the heating room, because the system is separable (boiler, intermediate reservoir and covering are separate)
- ✓ Chimney opening at the top of the boiler





- ① Daily Pellet Tank
- ② Feed Gate
- ③ Separator
- ④ Suction turbine
- ⑤ Auger drive
- ⑥ Feed Auger
- ⑦ Lambda Probe
- ⑧ Combustion Chamber
- ⑨ Automatic Ignition
- ⑩ Air Flow Sensors
- ⑪ Self Cleaning Heat Exchanger

System type	PZ100RL
Nominal heat performance (kW)	99,90
Degree of efficiency at full load (%)	95,10
Degree of efficiency at part load (%)	95,60
Max. adjustable boiler temperature (C°)	85
Tolerable operating pressure (bar)	3
CE designation according to low tension guidelines	CE
Dimensions	
Width of boiler (mm)	1891,50 ⁴
Depth of boiler (mm)	1232,50
Total depth (mm)	1375,00
Height of boiler (mm)	2020,00 ¹
Height of smoke tube connection (mm)	1988,00 ¹
Height of flow (mm)	139,50 ¹
Height of return flow (mm)	1458,00 ¹
Height of ventilation (mm)	1545,00 ¹
Diameter of smoke tube connection (mm)	200
Total weight (kg)	1153
Water content (ltr.)	273
Reservoir – automatically useable (kg)	323
Ash box - useable (ltr.)	2x42
Connections	
Flow (inch)	2
Return flow (inch)	2
Ventilation for boiler (inch)	1
Boiler emptying (inch)	1/2
Heating water flow resistance	
ΔT= 20 K (mbar)	5
ΔT= 10 K (mbar)	20
Exhaust gas values	
Exhaust gas temperature at full load (C°)	110
Exhaust gas temperature at part load (C°)	73
Exhaust gas mass flow at full load (g/s)	52
Exhaust gas mass flow at part load (g/s)	13
CO ₂ at full load (Vol%)	15,1
CO ₂ at part load (Vol%)	13,7
Necessary delivery pressure (mbar/Pa)	0,05-5/0,2-20
Electric power inpute	
Standby (W)	15
Filling - Turbine (W)	3200
Grate cleaning (W)	65
Pre-filling (W)	75
Ignition (W)	1020
At 100% performance (W)	200
Minimum distance masonry	
Backward (mm)	700
Left to masonry (mm)	500
Right to masonry (mm)	750
Placement dimension	
At least (mm)	900
Minimum ceiling height	
At least (mm)	2300 ⁹
Volume	
In operation (DB)	35
During suction (DB)	70

1) excluding base, adjustment range at 65-101 kW 50-80 mm

4) incl. ash box

9) Recommendation 2500 mm