



Pellet heating system Top Light M (MBW)

Manual Fillable

Range of performance: 4,50 - 14,90 kW

Electric connection: 230 VAC / 50 Hz, 16 A

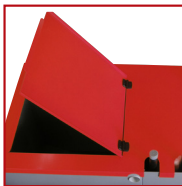


Model consisting of:

- ✓ Boiler body with efficient winding insulation
- ✓ Temperature-resistant tube heat exchanger with manual cleaning
- ✓ Burning system made of heat resistant stainless steel with automatic cleaning
- ✓ Great dimensioned ash box including ash compression (to be emptied all 6 to 18 weeks)
- ✓ Speed regulated induced draft and secondary air fan
- ✓ Automatic ignition for pellets
- ✓ Pellet intermediate reservoir provided with a lid for manual filling from above that is easy to open
- ✓ 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

Specific features:

- ✓ Program for hot water tank loading including hot water tank probe, program for buffer loading is contained in standard edition (without buffer probe)
- ✓ Easy placement into the heating room, because the system is separable (boiler, intermediate reservoir and covering are separate)
- ✓ All connections like flow, return flow, ventilation and chimney opening are at the top





- 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

② ③ ④ ⑪ ... not included by default in system, optional

System type	Top Light M MBW
Nominal heat performance (kW)	14,90
Degree of efficiency at full load (%)	93,00
Degree of efficiency at part load (%)	93,50
Max. adjustable boiler temperature (C°)	90
Tolerable operating pressure (bar)	3
CE designation according to low tension guidelines	CE
Dimensions	
Width of boiler (mm)	1300 ⁷
Depth of boiler (mm)	650 ⁷
Total depth (mm)	680 ^{2,7}
Height of boiler (mm)	1345 ¹
Height of smoke tube connection (mm)	1415 ¹
Height of flow (mm)	1445 ¹
Height of return flow (mm)	1445 ¹
Height of ventilation (mm)	1435 ¹
Diameter of smoke tube connection (mm)	130
Total weight (kg)	334 ⁷
Water content (ltr.)	60
Reservoir – automatically useable (kg)	180 ⁷
Ash box - useable (ltr.)	6
Connections	
Flow (inch)	1
Return flow (inch)	1
Ventilation for boiler (inch)	1/2
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°)	125
Exhaust gas temperature at part load (C°)	79
Exhaust gas mass flow at full load (g/s)	9,0
Exhaust gas mass flow at part load (g/s)	3,0
CO ₂ at full load (Vol%)	13,5
CO ₂ at part load (Vol%)	9,95
Necessary delivery pressure (mbar/Pa)	0,02-0,10/0-10
Electric power inpute	
Standby (W)	20
Filling - Turbine (W)	0 ⁶
Grate cleaning (W)	65
Pre-filling (W)	75
Ignition (W)	1020
At 100% performance (W)	50-80
Minimum distance masonry	
Backward (mm)	0-100
Left to masonry (mm)	0-100 ⁸
Right to masonry (mm)	400
Placement dimension	
At least (mm)	800
Minimum ceiling height	
At least (mm)	2000
Volume	
In operation (DB)	35
During suction (DB)	0 ⁷

1) excl. adjustable feet

2) incl. regulation

6) Power input at pellet heating system Top Light M (MBW)

7) Technical Data Pellet heating system Top Light M (MBW)

8) recommendation min. 250 mm, otherwise increased maintenance requirements (costs)