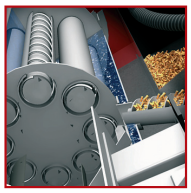
Pellet heating system Top Light

Range of performance: 2,40 - 9,20 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
- ✔ 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 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



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
- ✔ DCC Dual combustion control©

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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	Top Light
Nominal heat performance (kW)	9,20
Degree of efficiency at full load (%)	92,00
Degree of efficiency at part load (%)	92,20
Max. adjustable boiler temperature (C°)	80
Tolerable operating pressure (bar)	3
CE designation according to low tension guidelines	CE
Dimensions	
Width of boiler (mm)	900
Depth of boiler (mm)	480
Total depth (mm)	620 [2]
Height of boiler (mm)	1400 [1]
Height of smoke tube connection (mm)	1455 [1]
Height of flow (mm)	1450 [1]
Height of return flow (mm)	1450 [1]
Height of ventilation (mm)	1450 [1]
Diameter of smoke tube connection (mm)	130
Total weight (kg)	246
Water content (ltr.)	25
Reservoir – automatically useable (kg)	27
Ash box - useable (ltr.)	13
Connections	
Flow (inch)	3/4
Return flow (inch)	3/4
Ventilation for boiler (inch)	1/2
Boiler emptying (inch)	1/2
Heating water fow resistance	
ΔT= 20 K (mbar)	-
ΔT= 10 K (mbar)	-
Exhaust gas values	
Exhaust gas temperature at full load (C°)	95,00
Exhaust gas temperature at part load (C°)	54,00
Exhaust gas mass fow at full load (g/s)	5,3
Exhaust gas mass fow at part load (g/s)	1,8
Co_2 at full load (Vol%)	13,1
Co_2 at part load (Vol%)	10,5
Necessary delivery pressure (mbar/Pa)	0,02-0,10/0-10
Electric power inpute	
Standby (W)	20
Filling - Turbine (W)	1600
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)	600
Minimum ceiling height	
At least (mm)	2000
Volume	
In operation (DB)	35
During suction (DB)	67

1) excl. adjustable feet
3) incl. smoke tube connection
8) recommendation min. 250 mm, otherwise increased maintenance requirements (costs)