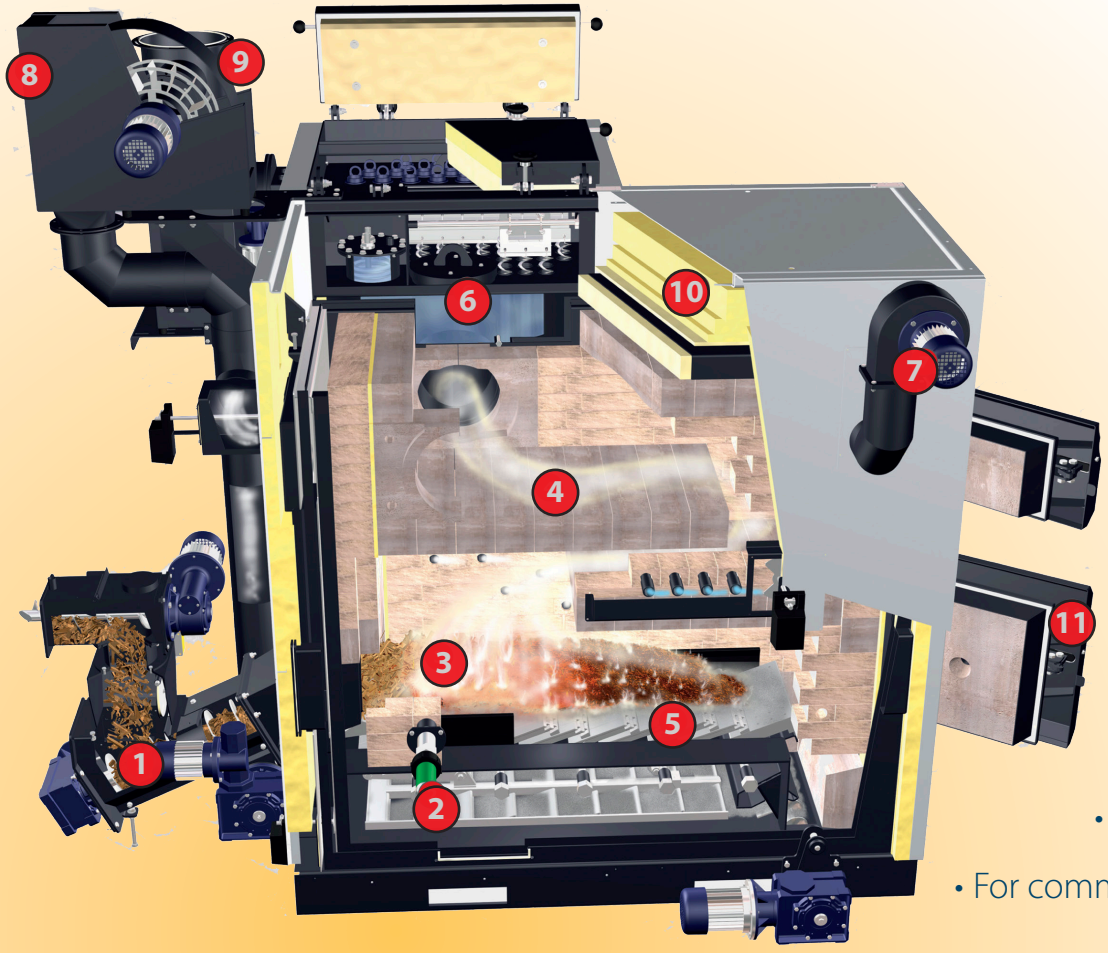
FROLING
WOOD BOILERS

20 Manchester St. | Keene, NH 03431 | 603-912-1212 | info@woodboilers.com.com | www.woodboilers.com



froling

TM
Turbomat

Wood Chip or Pellet Boiler

- Easy to service
- ASME stamped presssure vessel
- Fully automatic
- Lambda control
- Underpressure control
- For commercial or industrial use

1. Trapezoidal stoker duct reduces power consumption and ensures flexibility for varying fuel sizes. The industry standard drive gear unit is durable and mechanically isolated from the feed channel. This prevents the screw movements from affecting the gear unit.
2. Second ignitor (optional) for heating material that is hard to light.
3. High temperature combustion chamber with 4-layers (firebrick/1st layer of insulation/ air jacket/ 2nd layer of insulation) made of premium, heat resistant fireclay components for optimal combustion, even with low grade fuel (e.g. high moisture level, etc).
4. High-temperature post combustion zone with hot fireclay lining prolongs combustion. This increases efficiency even further, particularly with inferior fuels.
5. Moving grate for a reliable and stable combustion process with ongoing removal of combustion residue. The innovative primary air zone separation system produces exceptional combustion results.
6. Vertical, patented 4-pass heat exchanger with integrated suction cyclone unit for dust seperation plus an Efficiency Optimization System (EOS) with automatic cleaning of the heart exchanger tubes.
7. Case cooling of the combustion chamber minimizes radiant heat. The captured heat is specifically used to preheat the combustion air.
8. Flue gas resirculation FGR (optional) optimizes burning (output, emissions, etc) with particularly demanding fuels, (e.g. pellets, shavings, etc).
9. Speed-regulated and function monitored induced draft fan together with the under-pressure controller ensure that the system continuously adapts to changes in fuel and the chimney conditions.
10. Multi-layer thermal insulation guarantees minimum radiant heat losses.
11. Large, solid combustion chamber doors ensure ease of access for maintenance.

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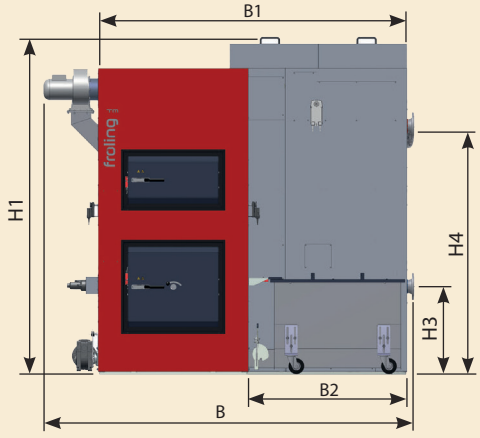
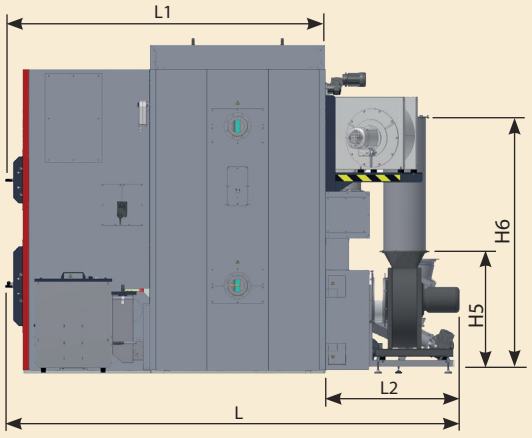
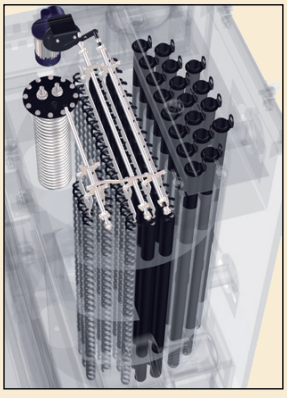






Upright Heat Exchanger

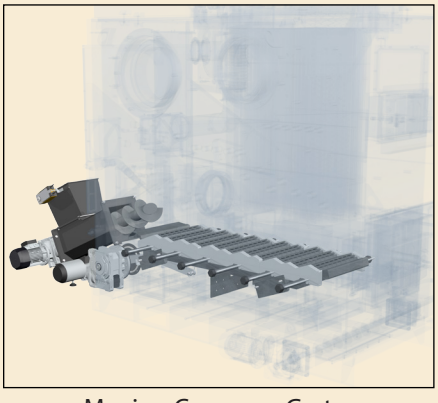
Dimension Data

H1	Total height	inches	107 1/16
H3	Height of return connection	inches	27 15/16
H4	Height, supply connection	inches	78 3/4
H5	Height of flue connection without FGR	inches	38 3/4
H6	Height of flue connection with FGR	inches	81 11/16
B	Total width of the system	inches	117 11/16
B1	Width of boiler	inches	98 7/16
B2	Width of heat exchanger	inches	50 3/8
L	Total length	inches	144 1/8
L1	Length of boiler	inches	102 3/8
L2	Length of stoker arm	inches	41 3/4

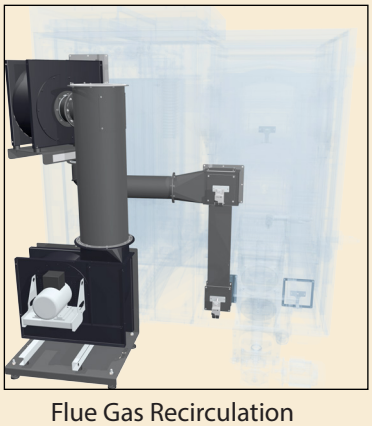
Technical Data

		400	500
Nominal heat output	BTU/hr	1,365,000	1,706,000
Electrical connection		480 V 60Hz	
Flue gas pipe diameter	inches	14	14
Diameter of stoker screw	inches	7 7/8	7 7/8
Total weight incl. fittings	pounds	18,519	18,519
Water capacity	gallons	198	198
Maximum operating temp.	°F	194	194
Minimum return temp.	°F	149	149
Maximum operting pressure	PSI	60	60
Flue gas temp. at nominal load	°F	284	284
Permitted fuel	Wood pellets Wood chips	Ø 1/4" (6mm) PFI Premium Grade Moisture Content: (20-40%) Particle size: 1/8" ≤ to ≥ 1 3/4"	

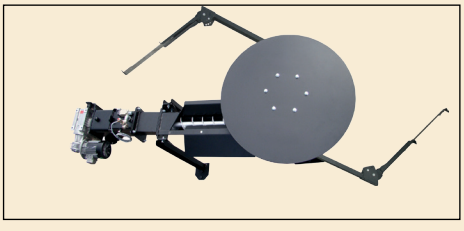
Dimensions are subject to technical alterations.



Moving Conveyor Grate



Flue Gas Recirculation



Torsion Arm Agitator