PE1 Pellet Boiler
The Most Advanced Pellet Boiler Available in the U.S.

- For home or light commercial use
- Fully automatic
- Bulk fuel ready
  - Plug & play – no assembly
- EPA accepted

Lambdatronic P 3200 control with easy to use 7" touch display.
2 Quiet, induced-draft combustion blower regulated by the boiler's controller for optimum combustion.
3 Broadband lambda probe for optimal combustion.
4 Automatic heat exchange cleaning provides maximum efficiency.
5 High-quality insulation - not a forgotten detail.
6 Special stainless steel pellet burner.
7 Automatic sliding grate for ash removal. The movement of the grate controls the secondary air and the integrated chimney cut-off at the same time.
8 Pellet container. All PE1 boilers come standard with auto-filling capability.
9 Unique in industry dual safety gates.
10 Automatic hot surface ignition.
11 Automatic ash removal in a closed ash container. Only remove ash every 300-1000 hours of operation.
12 External suction module.
Fröling PE1 Automatic Pellet Boiler is a compact, automatic, home heating boiler with advanced controls for clean combustion. PE1 boilers are well suited for central heating of all types including radiant floor heating.

Fröling PE1 boilers provide a convenient, safe and environmentally responsible way to heat your home and hot water with wood pellets. Forced hot air heating is also possible. PE1 owners are assured of unusually high heating efficiency, low heating costs, and use of an abundant, locally available, renewable fuel.
About Tarm Biomass®

Tarm Biomass® is a third-generation, family-owned business that has pioneered the sales and service of residential central heating equipment in North America for over 40 years. Tarm Biomass® primary objective is to offer innovative home heating solutions, along with a significant commitment to consumer education and environmental awareness. Exclusive partnerships with ISO 9001 certified manufacturers allows Tarm Biomass® to offer products with operational reliability, unique firing efficiency, and to promote the clean burning of carbon-cycle biomass that is critical to the lowering of net greenhouse gas emissions.

About Fröling

Founded in 1961, Fröling is a family-owned company located in Grieskirchen, Austria. A pioneer in wood-fired heating systems, Fröling has devoted decades of intensive R&D to the study of maximum energy efficiency.

Innovation

- Pneumatic pellet feed is ideally suited for bulk fuel applications, although the PE1 may be used with bagged fuel.
- Industry leading exhaust control ensures optimal fuel-to-air ratio.
- Unique dual safety gates.
- Cascade control for systems requiring multiple boilers.
- Automatic heat exchange cleaning provides maximum efficiency.
- Integrated storage tank control.
- Rated outputs from 51k BTU/hr to 120k BTU/hr.
- Compact construction.
- Exhaust temperatures under 350°F.
- Used with or without thermal storage (storage encouraged).
- Single ash box with auger for long ash removal times-300-1000 hours of operation.

Bulk Fuel Delivery

With bulk delivery, a pellet fuel truck delivers several tons of loose pellets to the fuel storage bin or silo. The external pneumatic feed device automatically delivers these pellets to the boiler as needed. Convenient fuel delivery with the economic and environmental benefits of biomass makes the ultimate solution for central heating and domestic hot water production.

Pellet Storage Systems

There are several options available for pellet storage:

Universal Suction—one or three suction probes uniformly provides complete emptying of the pellet store room.

Auger/Pneumatic—ideal for rectangular rooms with front-end removal. Complete emptying guaranteed due to deep and horizontal position of the delivery screw. Use with the suction system for flexible boiler setup.

Bag Silo—flexible, simple and easy to assemble. Dustproof and flood resistant, this system can be installed outside with the addition of rain and sun covers.

Independence and Self-Reliance

Fröling PE1 with its ingenious, fully automated operation, can replace an oil or gas boiler and can be relied upon to run for a month or more at a time without human touch. The boiler modulates to match the heating load and uses very little power to operate.

The boiler uses a long lasting, low energy, hot surface igniter for ignition. Other unique features set the boiler apart, such as a combustion grate that slides to clean while at the same time controlling secondary air and the integrated chimney cut-off to retain heat in the boiler when not actively burning.

The standard pellet fuel vacuum with sound deadening cabinet can be located at any place along the return air line for easy service and sound management. Fröling Connect software allows free remote monitoring and control from web enabled devices.

* Check with Tarm Biomass® for additional fuel storage options.
**Installation Data**

<table>
<thead>
<tr>
<th>Model 15/20</th>
<th>Model 25/35</th>
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<tbody>
<tr>
<td>L Length of Boiler inches</td>
<td>27(\frac{1}{6})</td>
</tr>
<tr>
<td>L1 Length w/flue pipe connection inches</td>
<td>29(\frac{1}{8})</td>
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<tr>
<td>B Width of boiler inches</td>
<td>29(\frac{1}{4})</td>
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<tr>
<td>H Height of boiler inches</td>
<td>47(\frac{1}{4})</td>
</tr>
<tr>
<td>H1 Height to flue collar inches</td>
<td>37</td>
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<tr>
<td>H2 Height to supply connection inches</td>
<td>36(\frac{3}{8})</td>
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<tr>
<td>H3 Height to return connection inches</td>
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<td>H4 Height to drain connection inches</td>
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<td>H5 Height to supply air connection inches</td>
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<td>H6 Height to suction system connection inches</td>
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<td>A Flue pipe diameter inches</td>
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**Technical Data**

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<thead>
<tr>
<th>Rated heat output Btu/hr</th>
<th>Model 15</th>
<th>Model 20</th>
<th>Model 25</th>
<th>Model 35</th>
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<tbody>
<tr>
<td>51,182</td>
<td>68,243</td>
<td>85,304</td>
<td>119,425</td>
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<tr>
<td>Heat output range Btu/hr</td>
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<td>15,534 to 68,243</td>
<td>24,567 to 85,304</td>
<td>24,567 to 119,425</td>
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<td>Min. boiler temp. setting °F</td>
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<td>Max. boiler temp. setting °F</td>
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<td>Relief valve PSI</td>
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<td>Electrical connection</td>
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<td>Electrical power* W</td>
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<td>Touch screen inches</td>
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<td>Boiler dry weight pounds</td>
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<td>Water capacity gals</td>
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<td>Ash box capacity gals</td>
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</table>

**Permitted fuel**

*Pellet Fuel Institute (PFI) Standard Specification for Residential / Commercial Densified Fuel*  
Fuel Grade: “Super Premium” or “Premium”

*Numbers shown are normal operating figures. Peak intermittent consumption is higher.

**Boiler accessories**

**Energy tank**

The Energy Tank is an all-in-one thermal buffer and indirect domestic hot water heater.

**Cube 330**

The Cube 330 pellet supply bin. For manual filling (bagged fuel) with a capacity of 727 lbs of fuel (approx. 18 bags).

**Check with Tarm Biomass® for a complete list of boiler accessories.**

Feb. 2018