

froling 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

- 1 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.

PE1 Pellet

Today's Self-Stoking Automated Wood Heat!



Pellet Boiler



**Online control with Fröling
Connect.
Check and control your
boiler, anytime, anywhere.**

The Fröling PE1 Pellet Boiler

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.

**AUTOMATED
WOOD
HEAT™**



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.

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

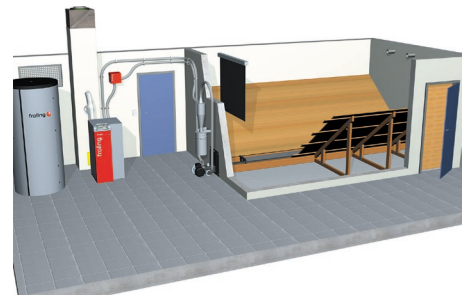
With bulk delivery, a pellet fuel truck delivers several tons of loose pellets to the fuel storage bin or silo. The external pneumatic feed device automatically delivers these pellets to the boiler as needed. Convenient fuel delivery with the economic and environmental benefits of biomass makes the ultimate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

Pellet Storage Systems

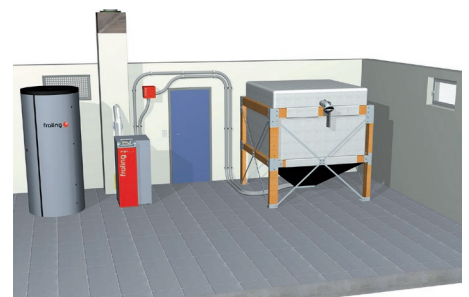
There are several options* available for pellet storage:



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.

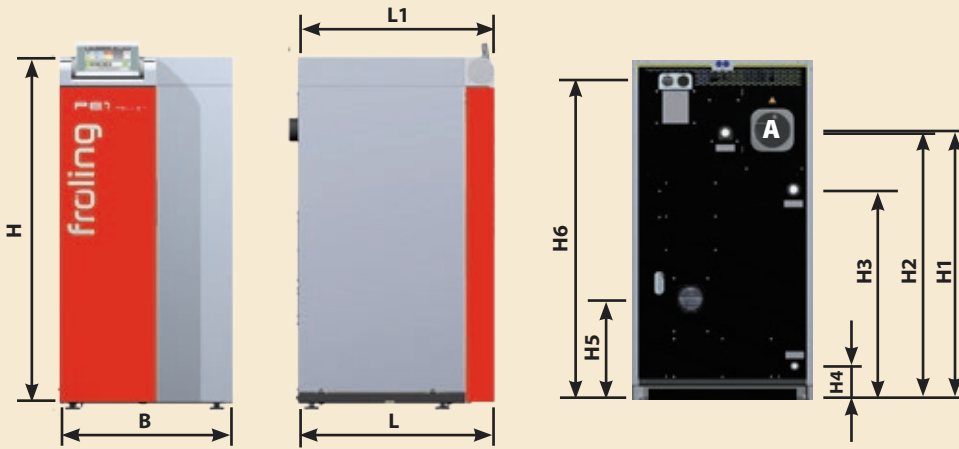
* Check with Tarm Biomass[®] for additional fuel storage options.

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. TarmBiomass[®] 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.



Installation Data

Model 15/20

Model 25/35

L	Length of Boiler	inches	27 ¹ / ₈	33 ¹ / ₂
L1	Length w/flue pipe connection	inches	29 ¹ / ₈	35
B	Width of boiler	inches	29 ¹ / ₂	29 ¹ / ₂
H	Height of boiler	inches	47 ¹ / ₄	57 ⁷ / ₈
H1	Height to flue collar	inches	37	46
H2	Height to supply connection	inches	36 ⁵ / ₈	45 ⁵ / ₈
H3	Height to return connection	inches	29 ¹ / ₂	36 ¹ / ₄
H4	Height to drain connection	inches	3 ³ / ₄	6 ⁷ / ₈
H5	Height to supply air connection	inches	15 ³ / ₈	18 ¹ / ₈
H6	Height to suction system connection	inches	43 ³ / ₄	54 ³ / ₈
A	Flue pipe diameter	inches	5	6

Technical Data

Model 15 Model 20 Model 25 Model 35

Rated heat output	Btu/hr	51,182	68,243	85,304	119,425
Heat output range	Btu/hr	15,354 to 51,182	15,534 to 68,243	24,567 to 85,304	24,567 to 119,425
Min. boiler temp. setting	°F	104	104	122	122
Max. boiler temp. setting	°F	194	194	194	194
Relief valve	PSI	30	30	30	30
Electrical connection		240V / 60Hz / 15 Amp			
Electrical power*	W	43	50	57	63
Touch screen	inches	7	7	7	7
Boiler dry weight	pounds	551	551	837	837
Water capacity	gals	10	10	16	16
Ash box capacity	gals	5	5	7.4	7.4
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.

PE1 Pellet Boilers are pressure tested in accordance with EN 303-5, NON-ASME

LOW EMISSIONS

Annual Efficiency Rating
80%*

EPA ACCEPTED

Emission data	Unit	Model 15/20	Model 25/35
Annual efficiency rating (EPA method 2018)	%	78.4	80.1
Particle emissions	Lbs/mm Btu/hr	0.049	0.053
	Grams/hr	0.425	0.074

*Model PE1 35

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.