





BETTER HEATING
INNOVATIVE AND
COMFORTABLE





ENVIRONMENTALLY RESPONSIBLE HEATING, ECONOMICALLY **ATTRACTIVE**

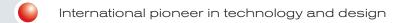
The price changes for different energy sources in recent years illustrate the benefits of wood pellets: this type of clean and eco-friendly heating is also attractive from an economical standpoint. Wood is a renewable energy source that is also CO2-neutral. Pellets are made of natural wood. The large volumes of wood shavings and sawdust generated by the wood-

processing industry are compacted and pelleted without being treated beforehand. Pellets have a high energy output and are easy to deliver and store. These are just some of the advantages that make pellets the perfect fuel for fully automatic heating systems. Pellets are delivered by tanker and unloaded directly into your store.

NEUTRAI

For almost sixty years Froling has specialised in the efficient use of wood as a source of energy. Today the name Froling stands for modern biomass heating technology. Froling firewood, wood chip and pellet boilers are successfully in operation all over Europe. All of our products are manufactured in our factories in Austria and Germany. Froling's extensive service network ensures that we can handle all enquiries quickly.







Excellent environmental compatibility

Environmentally responsible energy efficiency

Renewable and CO₂-neutral fuel

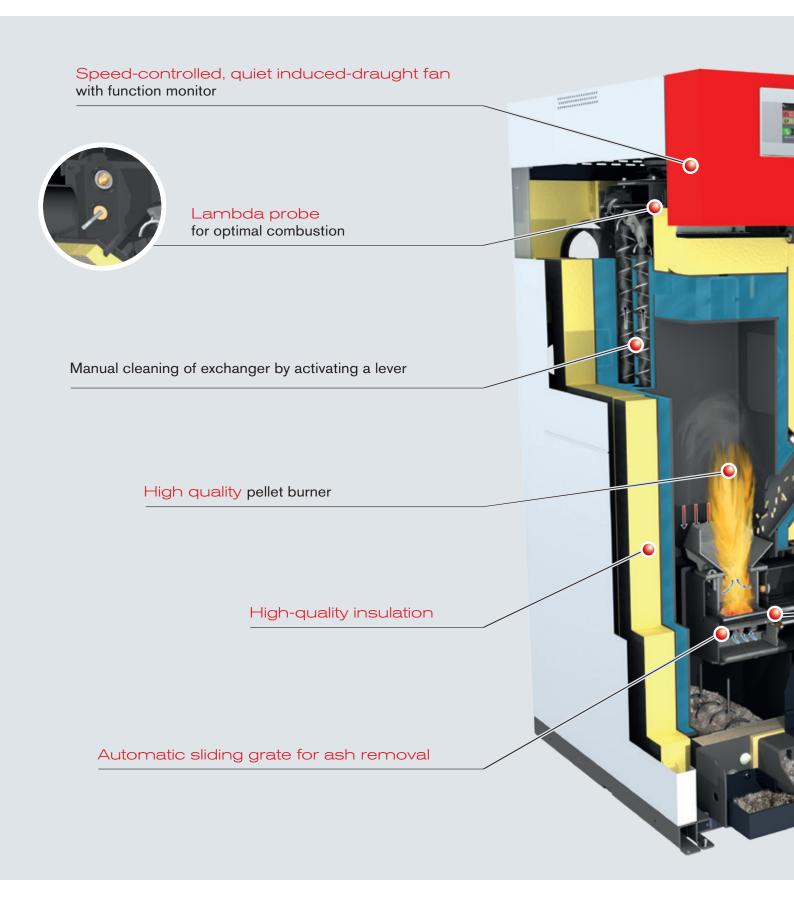
Ideal for all types of house

Up to 5 year Froling-waranty (subject to warranty conditions)

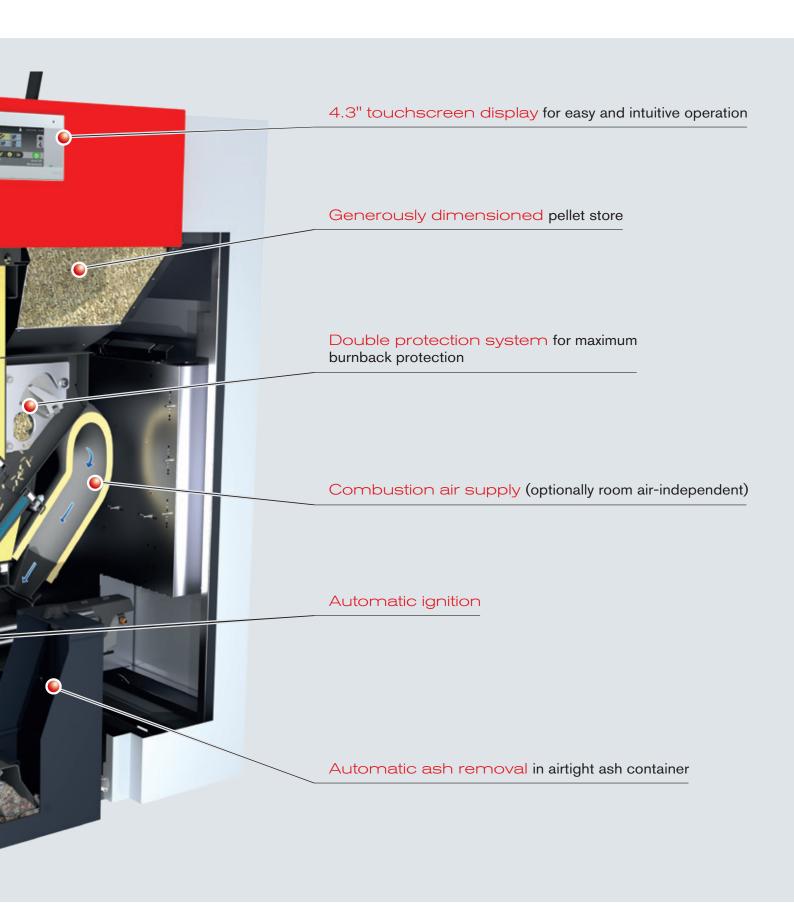
Occupying just 0.64 m² of space, the PECO pellet boiler sets new standards. The new PECO stands out due to its quiet operation and ease of use, combined with low emissions and very low energy consumption. Thanks to its high energy efficiency the PECO is particularly suitable for low-energy and passive houses.



PECO PELLET BOILER



STATE-OF-THE-ART TECHNOLOGY



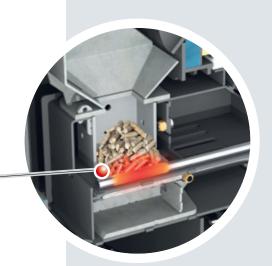
A WELL-DESIGNED INTERIOR

Automatic ignition

The new glow ignition is particularly suitable for low boiler outputs. It is extremely quiet and consumes very little energy.

Advantages: • Quiet operation

Low electricity consumption



Pellet burner with automatic sliding grate

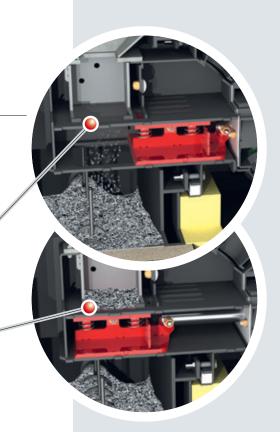
The burner is perfectly adapted to the fuel pellets and their requirements, enabling particularly high levels of efficiency. The sliding grate ensures automatic ash removal to an ash container.

Advantages: • High efficiency

Automatic ash removal

Open sliding grate

Closed sliding grate



Practical ash removal

We never compromise on convenience. An ash screw automatically conveys the ash that has accumulated into an airtight ash container. The ash container can be easily emptied.

Advantages: • Long intervals between emptying

Easy and convenient to empty





Gate valve fuel store

When the boiler is filling with pellets, the flap on the fuel store is open and the one on the burner is closed.



Large pellet store

The large pellet store can hold from 32 to 76 I (depending on output size) and reduces the frequency of pellet feed. The pellet store is filled completely automatically by means of an external suction turbine

Advantages: • Easy and convenient to fill

Efficient operation



Burner safety flap

The double protection system ensures a reliable closure between the pellet store and the burner while guaranteeing maximum burnback protection.

INTELLIGENT **DESIGN**

Variable speed induced-draught fan with lambda control

The variable speed-regulated induced draught fan, which comes as standard, ensures the exact air quantity for combustion. The variable speed-regulated extraction fan stabilises combustion throughout and adjusts the output to requirements. In conjunction with the lambda control, it ensures optimum combustion conditions. In addition, the induced-draught fan runs very quietly and consumes very little electricity.

Advantages: • Maximum ease of use

Constant optimisation of combustion



WOS system as standard

The WOS (Efficiency Optimisation System), which comes as standard, consists of special turbulators used in the heat exchanger pipes. The lever mechanism is controlled manually. Clean heating exchanger surfaces allow for higher efficiency and thus lower fuel consumption.

Advantages: • Even greater efficiency

Fuel savings

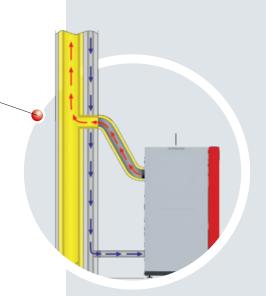


Room air-independent operation

Low-energy houses often have a closed boiler room. In traditional boiler rooms there can be uncontrolled heat loss from the ventilation openings. This phenomenon is avoided in the case of room airindependent boilers thanks to the direct air connection. In addition, an integrated system preheats the combustion air fed in, increasing the efficiency of the system.

Advantages: • Perfectly suited to low-energy houses

Maximum efficiency



NEW!

Bag silo

The bag silo system is a flexible, simple way of storing pellets. They are available in 3 sizes (from 2 m to 2.3 m), with a capacity of between 2.4 to 4.7 tonnes depending on the density. There are several advantages to using a bag silo: it is easy to assemble, dustproof and, if necessary, can also be installed outside provided it is protected from rain and UV rays.



Cube 300/500 S pellet supply bin

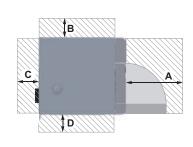
The Cube 330/500S is the optimal and most cost-effective solution for low fuel requirements. Manually filled (e.g. pellets in sacks) it can store a total of 330 kg/495 kg of pellets (22/33 sacks of 15 kg each). The pellets are transported to the boiler by means of a suction probe, which is also included in delivery.

Cube 300 dimensions: 690 x 690 x 1230 mm (LxDxH) Opening for filling Cube 300: 600 x 295 mm (LxD)

Cube 500 S dimensions: 760 x 1000 x 1250 mm (LxDxH) Opening for filling Cube 500 S: 670 x 340 mm (LxD)



OPERATING AND MAINTENANCE AREAS





Distances - PECO [mm]	15 - 20	25 - 35	
A Insulated door to wall	600		
B Side of boiler to wall (control side)	300		
C Rear side to wall	300		
D Side of boiler to wall (door stop side)	100		
E Maintenance area above the boiler	500		
Minimum room dimensions (length x width)	1550 x 1150	1750 x 1150	
Minimum store height, including maintenance area	maintenance area 1900 2200		

INDIVIDUAL CONTROL UNIT FOR THE HEATING SYSTEM

Lambdatronic P 3200 control unit

Froling forges ahead into the future with the Lambdatronic P 3200 boiler control unit and the new 4.3" touchscreen display. Intelligent control management makes it possible to connect up to 18 heating circuits, up to 4 stratified storage tanks and up to 8 domestic hot water tanks. The control unit ensures clear display of all operating statuses. A clearly organised menu structure makes for easy navigation. All essential functions can be selected by simply pressing icons on the large colour display.



- Advantages: Precise control of combustion thanks to the Lambda controller, by way of a Lambda probe
 - Connections for up to 18 heating circuits, 8 domestic water heaters and up to 4 management systems for stratified tanks
 - Possibility of connecting a solar panel system
 - LED frame for status display with illuminated presence detection
 - Simple and intuitive operation
 - Various smart home options (e.g. Loxone)
 - Remote control from the living room (RBG 3200 and RGB 3200 Touch room console) or via Internet (froeling-connect.com)

SIMPLE & INTUITIVE

OPERATION



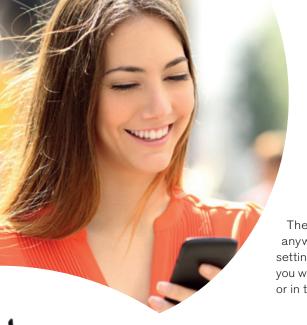
Fig. 1 General overview of the heating circuit (start screen)



Fig. 2 View of the heating times (individually adjustable)



Fig. 3 Overview of the new holiday mode



KEEP TRACK OF EVERYTHING WITH THE FROLING APP

The Froling App allows you to check and control your Froling boiler online from anywhere, at any time. You can read and modify the main status information and settings easily and conveniently online. You can also specify which status messages you want to be informed about via SMS or e-mail (e.g. when the ash box is to be emptied or in the event of a fault message).

Froling boiler (software core module from version V50.04 B05.16) with boiler touch display (from version V60.01 B01.34) a broadband internet connection and a tablet/smartphone with iOS or Android operating system are required.

Once the boiler has been connected to the internet and activated, the system can be accessed 24/7 from anywhere using a webenabled device (mobile, tablet, PC, etc.). The app is available in the Android Play Store and iOS App Store.



- Simple and intuitive operation of the boiler
- Status information can be called up and changed within seconds
- Individual naming of the heating circuits
- Changes of status are notified directly to the user (e.g. via e-mail or push notifications)
- No additional hardware required (such as an Internet gateway)

SMART HOME

Enjoy smart, convenient and piece-of-mind living with the Smart Home connection options from Froling.

Loxone

Combine your Froling heating system with the Loxone Miniserver and the new Froling Extension and implement individual boiler control on the basis of the single room control of the Loxone Smart Home.

Advantages: Easy operation and viewing of the heating circuit via the Loxone Miniserver, immediate notification of status changes and individual operating modes for each situation (presence, holiday, economy mode, etc.)

Modbus

Via the Froling modbus interface, the system can be integrated into a building management system.

ACCESSORIES FOR EVEN GREATER CONVENIENCE

FRA room temperature sensor

The FRA room temperature sensor, compactly sized at just 8x8 cm, allows you to easily select and adjust the main modes of the corresponding heating circuit. The FRA sensor can be connecte with or without affecting the store. The adjusting wheel allows you to change the room temperature by up to ± 3°C.



RBG 3200 room console

Use the RBG 3200 room console and the new RBG 3200 Touch for even more convenience. Conveniently control the heating system from your living room. Easily check all values and important status messages and change settings at the push of a button.



RBG 3200 Touch room console

The RBG 3200 Touch will impress you with its touchpad interface. Its clear menu structure makes the room console easy and intuitive to use. The approximately 17x10 cm colour screen room console displays the most important functions at a glance and automatically adjusts its backlighting to the ambient conditions. A bus cable connects the room consoles to the boiler controller.



EVEN MORE CONVENIENT



Heating circuit module

Controls two additional mixer heating circuits. Features wall casing and one contact sensor.



Hydraulic module

Features wall casing and two immersion sleeve sensors to control one or two pumps and one reversing valve with up to 6 sensors.



WMZ solar package kit

Set for measuring heat quantity, consisting of a volume pulse transmitter ETW-S 2.5, a collector sensor and two contact sensors for recording flow and return temperatures.

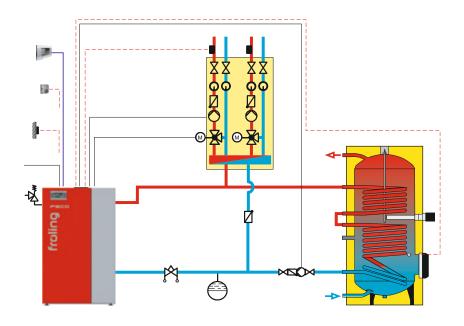
SYSTEMS ENGINEERING FOR OPTIMUM ENERGY CONSUMPTION

Froling systems engineering provides efficient energy management. It is possible to integrate up to 4 storage tanks, 8 hot water tanks and 18 heating circuits to help manage the heating. You can also take advantage of the ability to integrate other means of energy production such as solar panel systems.

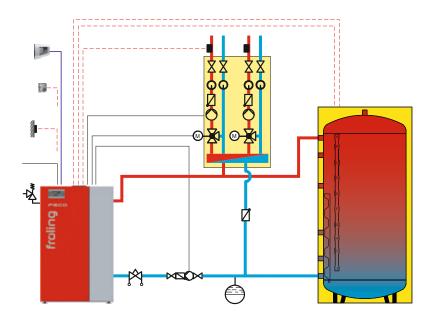
Advantages: • Complete solutions for all your needs

- The coponents work perfectly together
- Integrated solar power

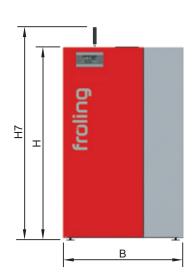
PECO with Unicell NT-S

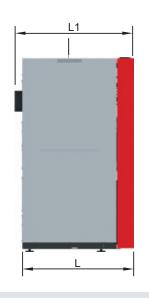


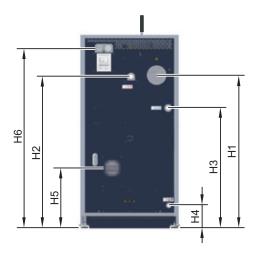
PECO with layered tank



DIMENSIONS AND TECHNICAL SPECIFICATIONS







Dir	nensions - PECO [mm]	15	20	25	30	35
L	Length of boiler	690	690	850	850	850
L1	Total length including flue pipe connection	740	740	890	890	890
В	Width of boiler	750	750	750	750	750
Н	Height of boiler	1210	1210	1480	1480	1480
H1	Height including central flue pipe connection	940	940	1170	1170	1170
H2	Height of flow connection	930	930	1160	1160	1160
НЗ	Height of return connection	750	750	920	920	920
H4	Height of drainage connection	95	95	175	175	175
H5	Height of supply air connection (for room air-independent operation)	390	390	460	460	460
Н6	Height of suction system connection	1110	1110	1380	1380	1380
H7	Height of boiler with WOS lever	1335	1335	1600	1600	1600

Technical data - PECO		15	20	25	30	35
Nominal output	[kW]	15	20	25	30	35
Output range	[kW]	4.1 – 15	4.1 – 20	7.2 – 25	7.2 – 30	7.2 – 35
Energy (ErP) label ¹		A ⁺	A ⁺	A ⁺	A ⁺	A ⁺
Electrical connection	[V/Hz/A]	230 V / 50 Hz / protected by C16A fuse				
Boiler weight	[kg]	250	250	380	380	380
Pellet container capacity	[1]	41	41	76	76	76
Ash container capacity	[1]	20	20	23	23	23
Minimum flow	[l/h]	260	340	430	430	430
Recommended approximate buffer volum	ne [l]	300	500	500	700	700

¹ Composite label (boiler + controls)



Pellet boiler

7 to 35 kW PE1 Pellet PE1c Pellet 16 to 22 kW 48 to 105 kW P4 Pellet



Firewood boiler

Dual fuel boiler

S1 Turbo	15 to 20 kW	SP Dual compact	15 to 20 kW
S3 Turbo	20 to 45 kW	SP Dual	22 to 40 kW
S4 Turbo	22 to 60 kW		



Wood chip boiler/large installations

T4e	20 to 250 kW	TI	350 kW
Turbomat	150 to 550 kW	Lambdamat	750 to 1500 kW



Heat and current from wood

CHP wood energy system 45 to 500 kWel

Your Froling partner

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