

# Product range

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7 - 1500 kW



BETTER HEATING

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INNOVATIVE AND  
CONVENIENT

**froling** 



### Guaranteed quality and reliability from Austria

Fröling has been the mark of quality for heating with wood and biomass for almost 60 years. Today, Fröling is recognised in Europe and beyond for highly efficient heating technology used for everything from single family homes to industrial facilities with highly technical demands. We offer a unique product range with up-to-the-minute technology and pioneering innovations incorporating experience from over 200,000 operational systems with a capacity range from 7 to 1,500 kW.



International



USA



Ireland



International



Austria



France



Austria

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# THE RECOGNISED NAME FOR HEATING WITH WOOD AND BIOMASS

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- Biomass boilers capable of burning a wide selection of fuels and producing outputs ranging between 7 and 1,500 kW
- Flexible discharge systems for the fuel store
- Over 150 company-trained technicians ensure a maximum coverage of all customer locations. Available 365 days a year - 24 hours a day
- Environmentally responsible energy efficiency
- Silo and bunker filling systems
- Flue gas cleaning
- Innovative tank systems up to 50 m<sup>3</sup>
- Controllers and visualisation software

## FACTS AND FIGURES

- Factories: Grieskirchen (AUT), Stritzing (AUT), Marzahna (GER)
- Sales/training/competence centres: Grieskirchen (AUT), Munich (GER), Strasbourg (FRA), Bolzano (ITA)
- Employees: 650
- Export rate: > 80 percent
- Markets:  
Main market = Europe (Germany, Austria, Italy, Switzerland, France, UK, Ireland, Slovenia, Slovakia, Poland, Belgium, Netherlands, Luxemburg, Spain, Norway, Denmark, Sweden, Czech Republic, Hungary, Russia, Romania, Croatia, Serbia, Bosnia-Herzegovina), USA, other distributors around the world



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# INDIVIDUAL CONTROLLER OF THE HEATING SYSTEM

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## Lambdatronic 3200

Fröling takes a step into the future with the Lambdatronic 3200 boiler controller and a new 7" touch display. Intelligent control management makes it possible to connect up to 18 heating circuits, four storage tanks and eight hot water storage tanks. The control unit ensures that the operating statuses are clearly shown. The menu structure is ideally organised to allow easy operation. All essential functions can be selected by simply pressing icons on the large colour display.



### Advantages:

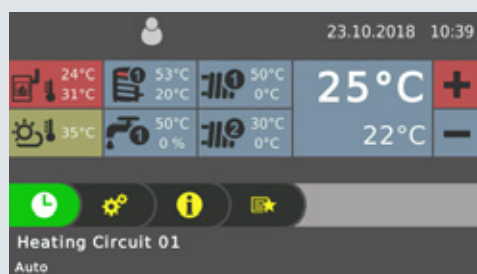
- Precise combustion control by a Lambda controller using a Lambda probe
- Connection for up to 18 heating circuits, eight water heaters and four storage tank management systems
- Integration capability for a solar panel system
- LED frame for status display with illuminated presence detection
- Simple, intuitive operation
- Various smart home options (e.g. Loxone)
- Remote control from the living room (room console RBG 3200 and RGB 3200 Touch) or via Internet (froeling-connect.com)

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## SIMPLE & INTUITIVE OPERATION

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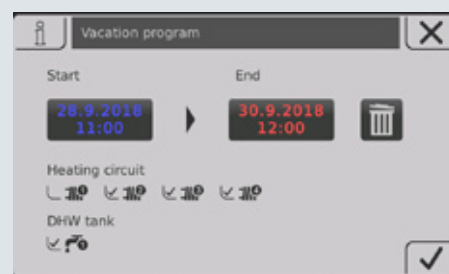
The clear, self-explanatory menu structure guarantees intuitive operation. All essential functions can be selected by simply pressing icons on the colour display and activated with just a keystroke (e.g. chimney sweeper function, holiday program, etc.). In the holiday program, you just specify the period of your absence and the controller takes care of the rest – whether that be a change to setback mode or heating up the hot water tank to prevent legionella build-up.



General overview of the heating circuit  
(start screen)



View of the heating times  
(individually adjustable)



Overview of the new holiday mode



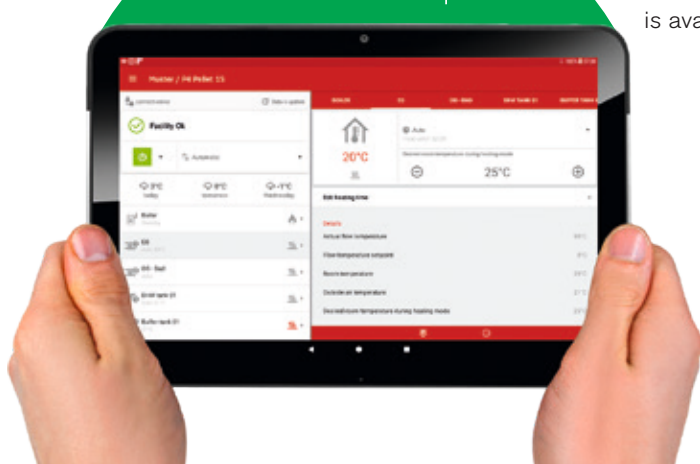


## EVERYTHING AT A GLANCE 24/7 WITH THE FRÖLING APP

The Fröling App allows you to check and control your Fröling 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 should be emptied or in the event of faults).

Fröling 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 web-enabled device (mobile, tablet, PC, etc.). The app is available in the Android Play Store and iOS App Store.

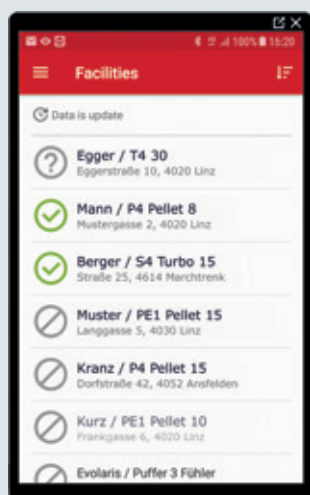
NEW! Desktop version  
with even more options



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



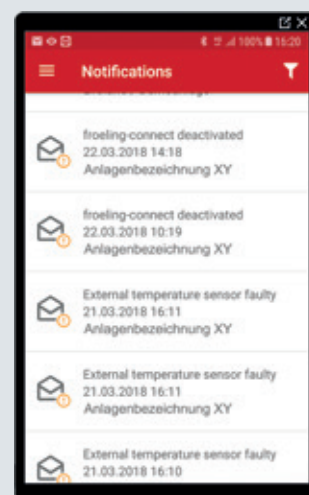
A compact overview with the most important information. Individual naming of the heating circuits possible



List of all registered boilers



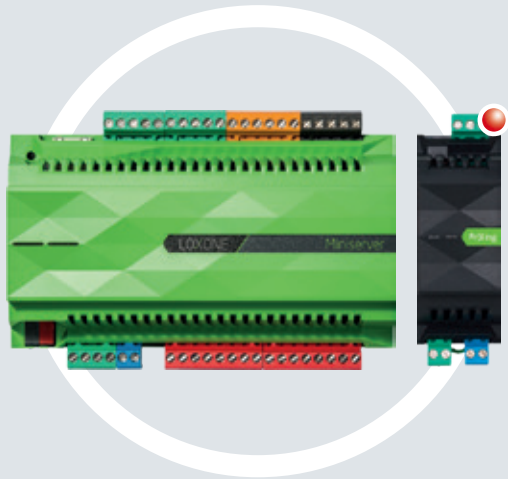
Customised and simple adjustment of heating times



Notifications (empty ash box, etc.) are transmitted directly to the user (e.g. via email or push notifications)

## Modbus

The system can be integrated into a building management system via the Fröling mod bus interface.



## Loxone

Combine your Fröling heating system with the Loxone Miniserver and the new Fröling 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.)

## CASCADE CONTROLLER (OPTIONAL)

Heating requirements can vary considerably, especially in larger buildings. Fröling offers a flexible answer to this problem in the form of a cascade. This smart solution allows you to combine up to four heating boilers (P4 Pellet, T4e, Turbomat or Lambdamat), reliably providing a total output of up to 3,000 kW.

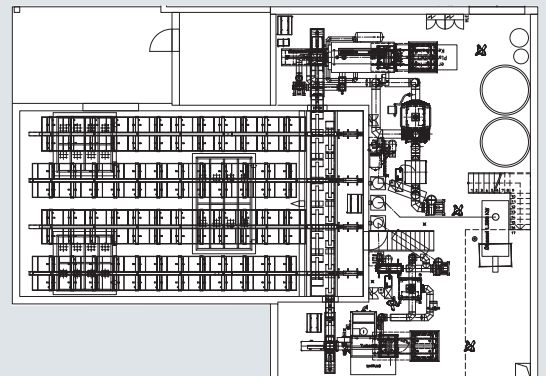
### Advantages:

- Very wide range of outputs
- Reliable and safe multi-boiler installation
- Boiler operation ratio can be adjusted

A Fröling cascade system provides cosy warmth from wood at the **four star superior Gradonna Mountain Resort hotel** in Kals am Großglockner, Austria. The specification was to find a solution that would be able to handle a wide range of fuel qualities (dry/wet, small/large) as efficiently and as reliably as possible. Fabric filters were included to ensure optimum cleaning of the flue gas and a condenser unit was integrated to increase energy efficiency.

### FRÖLING TECHNOLOGY:

- Lambdamat 1,000 kW and Turbomat 500 kW
- Hydraulic loading without screws
- Fabric filter
- Condensation heat exchanger

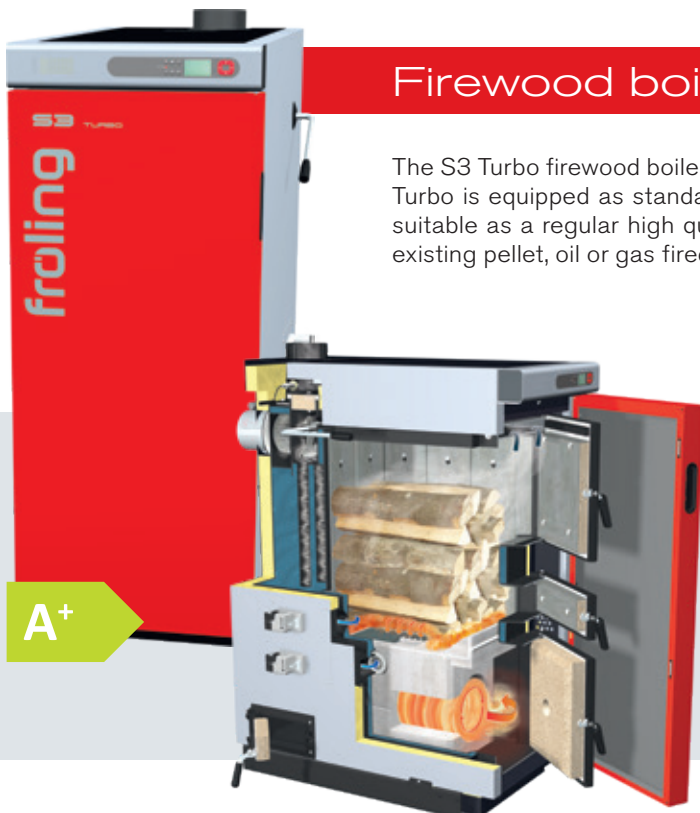
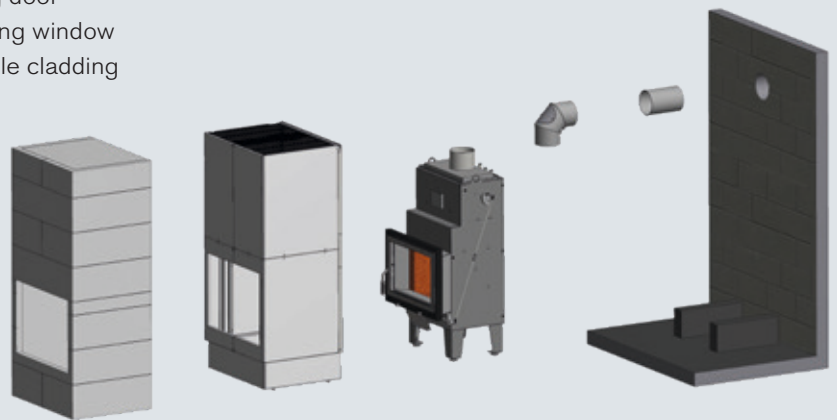


## Aquiferous firewood burner FKE AQUA 8 - 17 kW



The FKE aqua keeps your living room nice and cosy while creating a wonderful atmosphere with its visible flame. The fireplace insert can be customised thanks to ready-made cladding. Approx. 80% of the heat energy obtained is fed to the storage tank and then on to the heating system. A solar panel system can also be added via a solar layered tank. All water connections as well as the external combustion air are easy to access at the bottom. Efficiency rates are in excess of 84%.

- Can be easily upgraded to 17 kW
- Self-closing door
- Large viewing window
- Customizable cladding

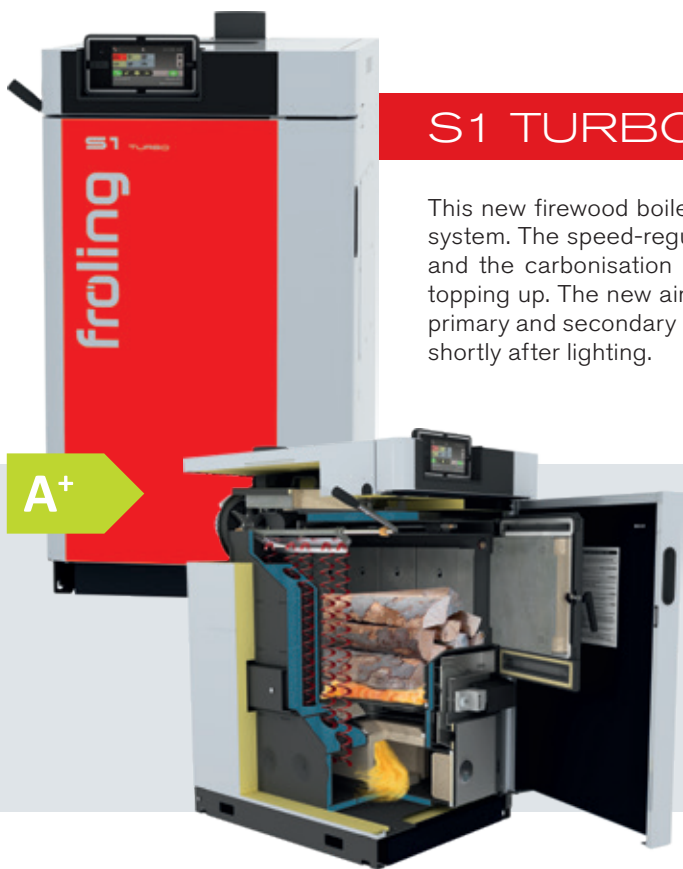


## Firewood boiler S3 TURBO 20 - 45 kW

The S3 Turbo firewood boiler focuses on the basics, offering unbeatable value for money. The S3 Turbo is equipped as standard with a smart storage tank management system. In addition, it is suitable as a regular high quality standalone boiler as well as an additional boiler in an already existing pellet, oil or gas fired heating system.

- Large fuel loading chamber for 50 cm wood logs
- WOS system
- S-Tronic Plus / S-Tronic Lambda control
- Patented high temperature turbulence combustion chamber
- Special carbonisation gas extraction system
- Optional broadband probe

NOW ALSO AVAILABLE WITH LAMBDA PROBE AND SERVO-MOTORS



## S1 TURBO 15 - 20 kW

This new firewood boiler combines all the features of a state-of-the-art biomass combustion system. The speed-regulated induced draught fan ensures constant high quality combustion, and the carbonisation gas extraction system prevents flue gas from escaping, even when topping up. The new air duct concept in the S1 Turbo automatically regulates the heating air, primary and secondary air with a single actuator. The fuel loading chamber door can be closed shortly after lighting.

- Simple and intuitive operation with a 7" colour touch display
- Lambdatronic S 3200 controller
- Rectangular heat exchanger pipes with turbulators
- Unique air duct concept with regulated air supply for heating up
- High-temperature firebrick-lined combustion chamber

- AVAILABLE WITH OPTIONAL PELLET FLANGE
- PELLET UNIT CAN BE EASILY ADDED AT A LATER DATE



## S4 TURBO 22 - 60 kW

Load, light, close the door and feel the heat. Fröling's S4 Turbo is the ultimate convenience package with a large fuel loading chamber and new automatic start-up. The speed-regulated, quiet induced draught fan ensures high quality combustion. The special carbonisation gas extraction system prevents smoke and gas from escaping during reloading, and outstanding operating efficiency is guaranteed thanks to the WOS system fitted as standard.

- Simple and intuitive operation with a 7" colour touch display
- Lambdatronic S 3200 controller
- Large fuel loading chamber for 50 cm wood logs
- Available with optional automatic ignition
- Available with optional pellet flange for SP Dual (for S4 Turbo 22 - 40 kW)

- AVAILABLE WITH OPTIONAL PELLET FLANGE
- AVAILABLE WITH OPTIONAL AUTOMATIC IGNITION



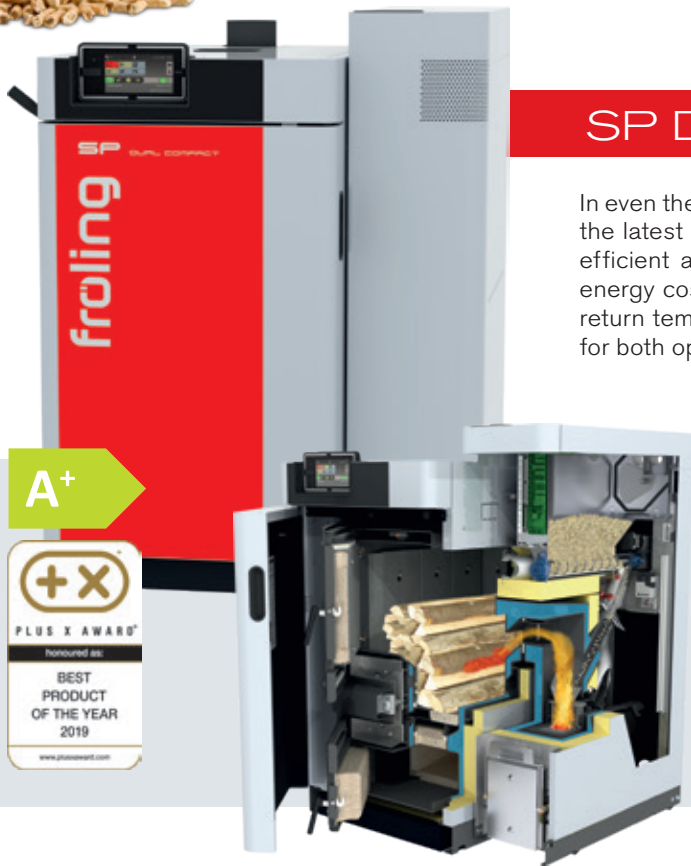
# DUAL FUEL BOILER



## SP DUAL COMPACT 15 - 20 kW

In even the smallest space (requires just 1.2 m<sup>2</sup>), the SP Dual compact combines the latest firewood technology with the convenience of a pellet system. Highly efficient and convenient - the SP Dual compact ensures low emissions and energy costs. In addition, the SP Dual compact has just one heat exchanger, a return temperature control, a controller and a flue gas pipe, which can be used for both operating modes.

A<sup>+</sup>



- Simple and intuitive operation with a 7" colour touch display
- Automatic switchover between firewood and pellets
- Fully automatic pellet burner
- Automatic control of primary and secondary air
- Automatic ignition, even in firewood mode

NEW! AVAILABLE WITH OPTIONAL  
AUTOMATIC WOS SYSTEM

## SP DUAL 22 - 40 kW

The SP Dual combines two perfect systems in one, with two separate combustion chambers for burning firewood and pellets. The firewood can be lit automatically at any time using the pellet burner. Once the firewood has burned down, the system automatically switches to pellet operation. The optional automatic heat exchanger cleaning makes it even easier to use. The turbulators in the heat exchanger pipes move automatically, guaranteeing high efficiency and particularly economical operation.

A<sup>+</sup>



- Automatic switchover between firewood and pellets
- Fully automatic pellet burner
- Automatic control of primary and secondary air
- Automatic ignition, even in firewood mode

NEW! AVAILABLE WITH OPTIONAL  
AUTOMATIC WOS SYSTEM

# PELLET BOILER



## NEW! PE1c PELLET 16 - 22 kW



The newly developed PE1c pellet-fuelled condensing boiler is fitted with innovative condensing boiler technology as standard. This new technology ensures even higher efficiency and exceptionally quiet operation within a very compact design. In addition the new PE1c Pellet scores well for high convenience, low emissions and low power consumption.

- Integrated condensing boiler technology
- Stainless steel condensing boiler heat exchanger with automatic flushing
- Simple and intuitive operation with a 7" colour touch display
- Energy-efficient and energy-saving
- Room air independent operation

**NEW! OPTIONAL INTEGRATED PARTICLE SEPARATOR (ELECTROSTATIC PRECIPITATOR)**



## P4 PELLET 48 - 105 kW

The Fröling P4 Pellet with its fully automatic operation provides the ultimate comfort and convenience. With its wide output range the P4 Pellet can be used in both energy-saving houses and in buildings with greater heating requirements. The Lambdatronic P 3200 smart control management system covers all control functions and ensures optimum combustion.

- Simple and intuitive operation with a 7" colour touch display
- Multi-layer heat exchanger with 3-pass design
- Little cleaning required
- High energy efficiency
- Speed-regulated, quiet induced draught fan and Lambda controller
- Room air independent operation
- Comprehensive safety concept

P4 Pellet 48 - 60 kW available with optional condensing boiler technology.



## PELLET BOILER

### PE1 PELLET 7 - 35 kW

Occupying just 0.38 m<sup>2</sup> (60 x 64 cm) of space, the PE1 Pellet boiler sets new standards. The new PE1 Pellet stands out for its quiet operation and ease of use, combined with low emissions and very low energy consumption. Thanks to its high energy efficiency the PE1 Pellet is particularly suitable for low-energy and passive houses.



- Simple and intuitive operation with a 7" colour touch display
- Lambdatronic P 3200 controller
- Speed-regulated, quiet induced draught fan
- WOS system for maximum efficiency
- Energy-saving drive for double protection system

PE1 Pellet 15 - 35 kW available with optional condensing boiler technology.

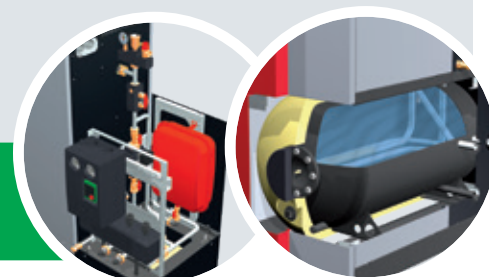
AVAILABLE AS A PE1 PELLET UNIT WITH  
OPTIONAL DHW TANK UNIT AND HYDRAULIC UNIT

### OPTIONAL DHW TANK BLOCK AND HYDRAULIC BLOCK 7 - 20 kW

The PE1 Pellet (7-20 kW) is also optionally available as a PE1 Pellet Unit with DHW tank block for hot water and hydraulic block (with heating circuit pumps, heating circuit mixing valve and DHW tank loading). These two modules make the PE1 Pellet Unit the compact all-round solution for the boiler room.

- Simple and intuitive operation with a 7" colour touch display
- Optimal hot water preparation
- Best possible heating circuit control
- Intelligent complete solution

AVAILABLE WITH OPTIONAL DHW  
TANK UNIT AND HYDRAULIC UNIT





## NEW! PT4e 120 - 250 kW

Sturdy, convenient, reliable and versatile: The new PT4e pellet boiler is perfect in every way. Well-planned use of energy-saving drives ensures extremely low energy consumption. With its durable high temperature silicon carbide combustion chamber, the PT4e ensures a high level of efficiency with minimal emissions. In addition, the PT4e can be equipped with an electrostatic particle separator as an option. Thanks to its modular construction, Fröling's PT4e is particularly easy to position and install. The entire boiler comes fully assembled, electrically wired and tested.

- Large ash container for long emptying intervals
- Heat exchanger with automatic cleaning (WOS) of all passes and lower drive
- 7" touch display with LED status illumination
- Special tipping grate technology with 110° tipping grate inclination

**NEW! OPTIONAL INTEGRATED PARTICLE SEPARATOR (ELECTROSTATIC PRECIPITATOR)**

## INNOVATIVE CONDENSING BOILER TECHNOLOGY (OPTIONAL)

The pellet boilers by Fröling are available with innovative condensing boiler technology as an option. With the condensing boiler heat exchanger made of high quality stainless steel, a significant amount of energy contained in the flue gas, which normally escapes unused up the chimney, is completely recovered and supplied to the heating system. Enabling you to achieve a high level of boiler efficiency. Automatic cleaning is performed with a water flushing system.

### Advantages:

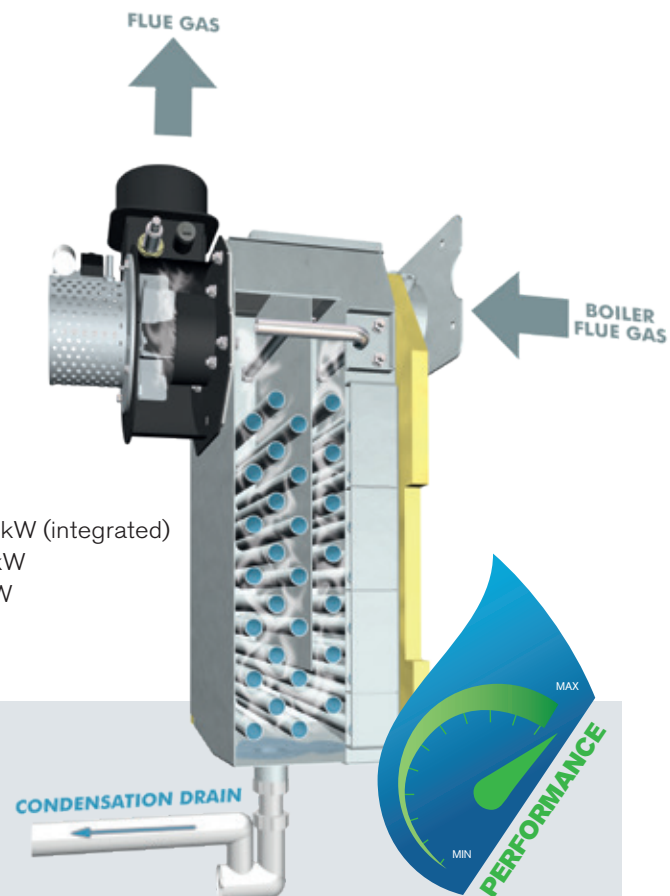
- Lower fuel costs
- Filtered flue gas
- Reduced emissions
- Automatic cleaning
- Condenser module can be added at any time

### Available for:

- Pellet boiler
  - PE1c Pellet 16 - 22 kW (integrated)
  - PE1 Pellet 15 - 35 kW
  - P4 Pellet 48 - 60 kW

### Requirements for optimal use:

- Lowest possible return temperature (e.g. floor or wall heating)
- Moisture-resistant and soot fire-resistant flue gas system
- Duct connection for drainage of condensation and flushing water





# PELLET OUTFEEDERS

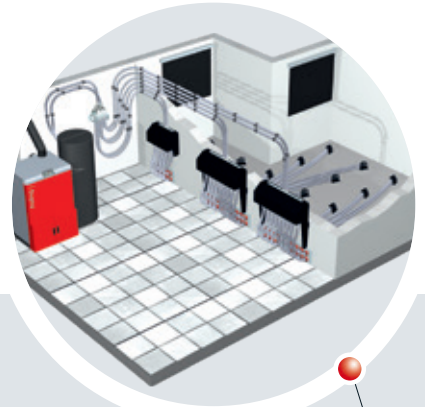


Manual four suction probe system

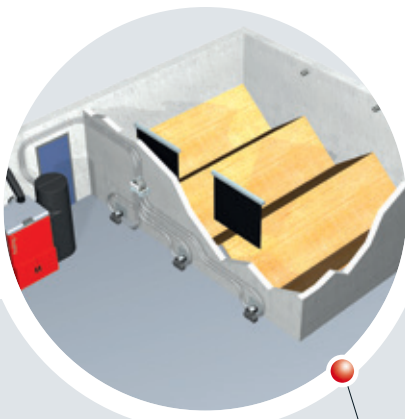


With automatic backwash

RS 4 / RS 8 pellet suction system



Triple RS 4 / RS 8 pellet suction system



1-2-3 suction screw



Available in eight sizes

Bag silo



Suction screw



Pellet Mole®



Cube 330 / 500 S



Pellet box

# WOOD CHIP BOILER



## T4e 20 - 350 kW



The T4e wood chip boiler is impressive because it is optimised in every area. Well-planned use of energy-saving drives ensures extremely low energy consumption. With the silicon carbide combustion chamber, the T4e ensures a high level of efficiency with very low emissions. The cleaning of all of the heat exchanger pipes (starting with the first draw) increases ease of operation and results in cleaner heating surfaces, which lowers fuel consumption. In addition, the T4e can be equipped with an electrostatic particle separator as an option.

A<sup>+</sup>



- Automatic heat exchanger cleaning (starting with the first draw)
- Integrated particle separator (electrostatic precipitator) can be added at any time
- Simple and intuitive operation with a 7" colour touch display
- Two-part combustion grate consisting of a fixed insertion zone and automatic tipping grate
- Lambda control with broadband probe for optimum combustion
- Automatic self-diagnosis prior to each start-up

**NEW! INTEGRATED PARTICLE SEPARATOR (ELECTROSTATIC PRECIPITATOR) CAN BE ADDED AT ANY TIME**

## TI 350 kW

The TI combines the advantages of industrial-grade parts with a compact design and offers exceptional quality. Made of highly heat-resistant refractory fireclay, the combustion chamber adapts very quickly to different performance requirements. This rapid adjustability is particularly beneficial for dry to moderately damp fuel classes.

- Upright three-flue heat exchanger
- Ash rake for automatic removal of ash from under grate
- Automatic heat exchanger cleaning incl. efficiency improvement system (WOS)
- Automatic ash removal from heat exchanger into a two 25 litre ash containers
- Defined air extraction from boiler insulation to minimise radiant heat losses
- Automatic heating surface cleaning



## WOOD CHIP BOILER

### TURBOMAT 150 - 550 kW

The moving grate is the centrepiece of this innovative boiler technology. It is suitable for a wide range of fuel grades, from dry (shavings, pellets) to wet (50%). The patented, vertical heat exchanger also serves as a flue gas deduster. This results in outstanding function and convenience.



- Moving grate and primary air zone separation system
- Multi-layer high-temperature firebrick-lined combustion chamber
- Vertical, patented 4-pass heat exchanger (operating pressure up to 6 bar) with integrated suction unit dust separation unit and automatic cleaning
- Loading via P45A screw (previously G 50) or hydraulic P63 (previously G 100)
- Flue gas recirculation system to optimise combustion
- Fully-automatic ash removal

### LAMBDAMAT 750 - 1500 kW

Fröling's Lambdamat is a unique, fully automatic heating system for burning wood chips, shavings and pellets. It not only offers innovative combustion technology, but also offers a high level of convenience and operational reliability. The boiler sizes are suited to fuels with a water content even above 50%.



- Moving grate and primary air zone separation system
- Multi-layer high-temperature firebrick-lined combustion chamber
- 3-pass heat exchanger with automatic cleaning
- Loading via P45A screw (previously G 50) or hydraulic P63 (previously G 100)
- Flue gas recirculation system to optimise combustion
- Fully-automatic ash removal

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## FLEXIBLE DISCHARGE AND FEED SYSTEMS

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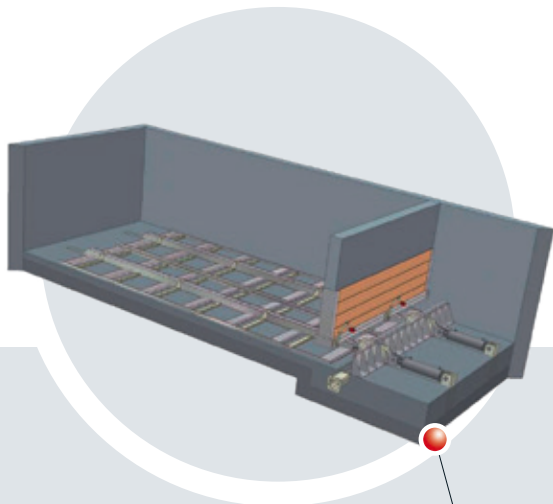
Whether large or small, we offer sturdy systems for all requirements, meeting the highest technical standards.



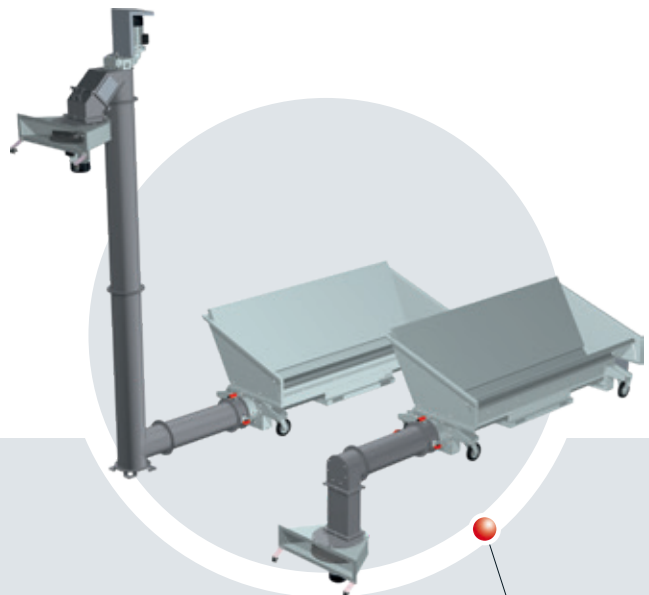
Spring blade agitator



Inclined screw discharge unit



Pusher discharge unit



Horizontal and vertical  
bunker filling systems

Please contact our sales  
engineers for further details





## ENERGY BOX

Heating containers mean you can locate the boiler and fuel store wherever you want to save space. This makes it easier to install a biomass heating system, especially when renovating an existing building. The Fröling Energy box is available in modular and custom versions and is the ideal container solution for heating with wood chips, pellets and shavings.

Available with: P4 Pellet, PE1 Pellet, T4e, Turbomat and Lambdamat.

- Relocation of the boiler room and fuel store
- Perfectly matched components
- Ready to install
- Clearly defined installation steps
- Flexible complete solutions
- Intelligent system design



### MKW OBERFLÄCHEN & DRAHT GMBH

Boiler: Turbomat 320 kW and 500 kW  
 Discharge: Spring blade agitator and articulated arm discharge  
 Fuel: Wood chips and pellets

### SPAR SUPERMARKET

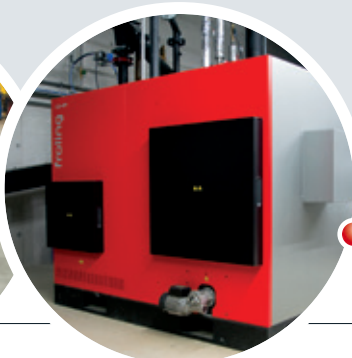
Boiler: Turbomatic 100 kW  
 Discharge: Spring blade agitator  
 Fuel: Wood chips

## HEAT FROM ELECTRICITY AND WOOD FIXED BED GASIFIER SYSTEM



Fröling's CHP fixed bed gasifier is available with an electrical capacity of 46 / 50 / 56 kW or thermal capacity of 115 kW. Similarly, the CHP leaves nothing to be desired in terms of design. Components can be individually planned and installed or come as a pre-commissioned container solution which is ready for installation and use (wood gasification including safety features, flue gas line and automatic gas flare). Clearly-defined interfaces and the intelligent system design make the CHP a unique "plug and play" solution.

- Compact design and easy to maintain
- Fully automated operation
- Quality product of Austria
- One-stop shop - complete system supplier: Boiler, wood gas system, chamber discharge systems incl. materials handling technology
- TÜV concept in place for authorities (emissions, machinery safety, noise, explosion protection, process engineering etc.)
- Turnkey container system ready for operation, i.e. exact costs can be budgeted for up to point of commissioning



Germany - Osserhotel

AUSTRIA - Jennersdorf district heating

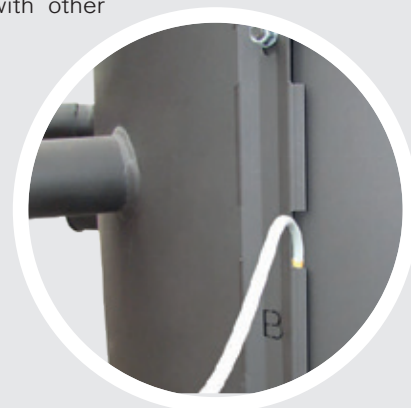
## NEW TANK SYSTEMS



### Fröling tank systems with sensor strip

Fröling layered tanks have a terminal strip for optimal positioning of the sensors. This allows multiple sensors to be positioned at any height and moved without having to empty the tank. The labelling of the sensor strip and corresponding Fröling connection diagrams makes the sensors extremely easy to position and offer lots of different options. The tank systems are also ideal for combining with other energy systems.

Correct positioning of the sensors on the terminal strip is crucial for optimum operation of the system.



### Height adjustable feet



### Solar station

The ideal addition to Fröling tank systems with solar integration for optimum use of solar energy. The high efficiency pump comes together with bleeder and safety group as a complete, preassembled unit for the solar panel circuit.



### Layer separating module

The layer separating module (optionally with electronic controller) can help you achieve maximum efficiency with your solar panel system. Depending on the solar water temperature, the module automatically switches between the top and bottom half of the storage tank. At a high temperature layering takes place in the top half of the storage tank, and at a low temperature layering takes place in the bottom.

The fitting assembly consists of two high efficiency pumps, one heat exchanger and one three-way switch valve. The solar panel circuit is protected against overpressure by an integrated safety group. The fittings of the heat exchanger system are fully assembled on a base plate and tested for leak-tightness. The assembly is fully insulated.

# EFFICIENT SYSTEMS FOR ALL REQUIREMENTS

With its range of storage tank systems, Fröling offers the ideal solution for almost any situation. Fröling layered tanks make intelligent heating management and optimum heating support possible. If a solar panel system is to be built in, the Fröling solar layered tank, H3 hygienic solar layered tank and FW modular solar layered tank are ideal.

The Unicell NT-S hot water tank ensures efficient domestic hot water heating, using solar energy if desired. Furthermore, Fröling offers compact comprehensive solutions for the boiler room thanks to its hygienic layered tank with integrated domestic hot water element and modular layered tank with fresh water module.

	Layered tank	Solar layered tank	H2 hygienic layered tank	H3 hygienic solar layered tank	FW modular layered tank	FW modular solar layered tank	Unicell NT-S water heater	BWP - domestic hot water heat pump
Storage of surplus heat	✓	✓	✓	✓	✓	✓		
Precise temperature layering for high energy yield and affordable operating costs	✓	✓	✓	✓	✓	✓		
Optimum thermal insulation due to all-round CFC-free insulation	✓	✓	✓	✓	✓	✓		
Joined tank expansion in confined spaces	✓	✓	✓	✓	✓	✓		
Combination with other heat generators	✓	✓	✓	✓	✓	✓	✓	✓
Integrated solar power		✓		✓		✓	✓	✓
Can be expanded with photovoltaics system								✓
Domestic water heating			✓	✓	✓	✓	✓	✓
Hot water tank and layered tank in one			✓	✓	✓	✓		
Hot water tank, layered tank and solar tank in one				✓		✓		

## LAYERED TANK / SOLAR LAYERED TANK

The ingenuity is in the detail. Fröling's layered tanks and solar layered tanks feature an impressive heat management concept, with optimal energy intake and withdrawal. Fröling's solar layered tank also makes it easy to integrate solar power.

- Terminal strip for flexible positioning of the sensors
- Height adjustable feet (optional)
- Up to 20% more energy yield due to high quality insulation (Neopor and fleece)
- Can be easily combined with various heat generators
- High energy yield due to precise temperature layering in the tank
- Communicating tank expansion possible
- Lambdatronic control for state-of-the-art energy management
- Low running costs
- Easy solar integration (with solar layered tank)

## H2 HYGIENIC LAYERED TANK / H3 HYGIENIC SOLAR LAYERED TANK

Fröling's H2 and H3 units combine a layered tank and hot water tank all in one. With their highly efficient heat exchanger surface area these tanks provide a continuous flow of fresh hot water of exceptional quality at all times. Guaranteed to be free from legionella bacteria. The H3 hygienic solar layered tank also makes it possible to integrate solar power. Two high performance solar elements guarantee efficient solar integration.

- Terminal strip for flexible positioning of the sensors
- Height adjustable feet (optional)
- Up to 20% more energy yield due to high quality insulation (Neopor and fleece)
- Precise temperature layering for high energy yield and affordable operating costs
- Hygienic hot water preparation with the flow principle
- Optimal temperature layering and high performance
- Joined tank expansion in confined spaces
- Efficient solar integration through the use of two high performance solar elements (with H3 hygienic solar layered tank)





### FW MODULAR LAYERED TANK / FW MODULAR SOLAR LAYERED TANK

Fröling's FW layered tank and FW solar layered tank are a compact complete solution for the boiler room. The layered tank is available in sizes 850, 1,000 and 1,500, with or without solar elements. They can be used in combination with the full range of Fröling tanks to offer optimal solutions for almost any area of use. The high-performance solar element ensures that the tank is loaded to full capacity when energy is available from the solar panel system.

- Terminal strip for flexible positioning of the sensors
- Height adjustable feet (optional)
- Up to 20% more energy yield due to high quality insulation (Neopor and fleece)
- Specially developed temperature control system (TLS) for a higher flow rate
- Less primary energy needed to fill the tank thanks to the TLS
- Smaller tank capacity and solar collector surfaces required
- Compact
- Easy to assemble
- Minimal installation work thanks to ready-made internal piping
- Can be combined with the full range of Fröling tanks



### UNICELL NT-S HOT WATER TANK

A lot of energy can be saved not only during heating but also during hot water preparation. In this respect Fröling is forging new paths with Unicell. The vacuum enamelling and magnesium protection anode protect against corrosion and ensure resistance to high temperatures and a long life cycle. Whether it's an optimal hot water preparation system for every heat boiler or an efficient solar tank, the Fröling Unicell is fully versatile and guarantees efficient, hygienic hot water preparation.

- High quality insulation with outer jacket
- Large heat exchanger surface areas for optimum use of solar energy
- Large cleaning access for completely draining the water and easy cleaning



## BWP - 300 PV DOMESTIC HOT WATER HEAT PUMP

The BWP domestic hot water pump easily and efficiently heats the domestic water and also offers a variety of flexible options independently or combined with other heat sources. The compact, intelligent design ensures that the BWP is easy to integrate and is the perfect solution even if there is little space. The high-quality insulation ensures that a minimal amount of heat is lost. The signal anode provides additional corrosion protection and ensures the system has a long service life.

- Additional energy cost savings in conjunction with a photovoltaics system
- Easy to operate and assemble (ready to connect when delivered)
- Energy-saving operation, high output figures (COP 3.61 as per EN 255-3 at 7°C air temperature)
- Timed control of the heat pump operation
- High quality insulation and optimum thermal insulation
- Vacuum enamelled design with signal anode
- Ambient or outside air can be used as heat source
- Electronic temperature control
- Additional electric heating element integrated as standard
- Automatic Legionella protection
- Can be combined with other energy sources (boiler, solar)
- Anti-freeze protection



## FWS FRESH WATER STATION 40 L/MIN - 100 L/MIN

The FWS fresh water station with integrated electronic controller delivers DHW heating according to the instantaneous water heater principle (DVGW, worksheet W551) by means of a plate heat exchanger made of high-quality stainless steel, and therefore offers a hygienic and convenient solution for the supply of domestic hot drinking water. This also prevents the risk of legionella build-up.

- Drinking water is not stored; provides constant fresh hot water of drinking water quality
- Protection against legionella
- Performance capacity: 40 to 100 litres per minute (option of cascade installation)
- Low flow temperature makes it highly efficient to operate with heat pumps
- Save energy and costs: Excellent system efficiency using the lowest return temperatures, especially recommended for Fröling heating systems with condensing boiler technology



#### GERMANY - Dingolfing

Boiler: T4e 45  
Fuel: Wood chips



#### GERMANY - Belgweiler

Boiler: PE1c Pellet 16 kW  
Discharge: Triple ECO sensor  
Fuel: Pellets



#### GERMANY - Hergatz

Boiler: PE1c Pellet 16 kW  
Discharge: RS4 pellet suction probe system  
Fuel: Pellets



#### GERMANY - Mühltröff

Boiler: S4 Turbo 22 kW  
Fuel: Firewood



#### GERMANY - Steinbrenner

Boiler: TX 150 kW  
Discharge: Spring blade agitator  
Fuel: Wood chips



#### AUSTRIA - Hotel Edenlehen

Boiler: 2 x Turbomat 500 kW  
Discharge: Sliding floor  
Fuel: Wood chips



#### Pellet boiler

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



#### Firewood boiler

S1 Turbo	15 - 20 kW
S3 Turbo	20 - 45 kW
S4 Turbo	22 - 60 kW

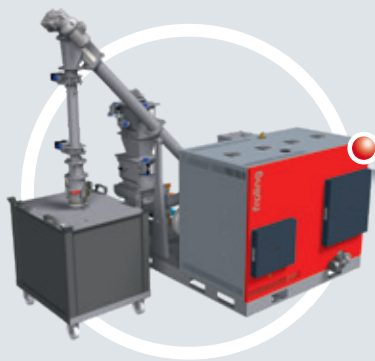
#### Dual fuel boiler

SP Dual compact	15 - 20 kW
SP Dual	22 - 40 kW



#### Wood chip boiler / large systems

T4e	20 - 350 kW	TI	350 kW
Turbomat	150 - 550 kW	Lambdamat	750 - 1500 kW



#### Heat and electricity from wood

Fixed bed gasifier CHP	45 - 500 kWel
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Your Fröling partner

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