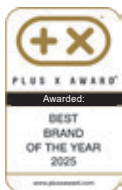


NEW!

Product range

8 - 1500 kW



BETTER HEATING

INNOVATIVE AND CONVENIENT





Guaranteed quality and reliability from Austria

Froling has been the mark of quality for heating with wood and biomass for over 60 years. Today, Froling 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 250,000 systems in operation with a capacity range from 8 to 1500 kW.



Austria



Austria



Austria



Austria



International



USA



Ireland



International



France

- Biomass boilers capable of burning a wide selection of fuels and producing outputs ranging between 12 and 1500 kW
- Flexible discharge systems from the fuel store
- Comprehensive in-house customer service 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 m³
- Controllers and visualisation software



FACTS AND FIGURES

- Factories: Grieskirchen (AUT), Stritzing (AUT), Marzahna (GER)
- Sales/training/competence centres:
Grieskirchen (AUT), München (GER), Straßburg (FRA), Bozen (ITA)
- Employees: 1250
- 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

NEW! LAMBDATRONIC 5000 CONTROLLER

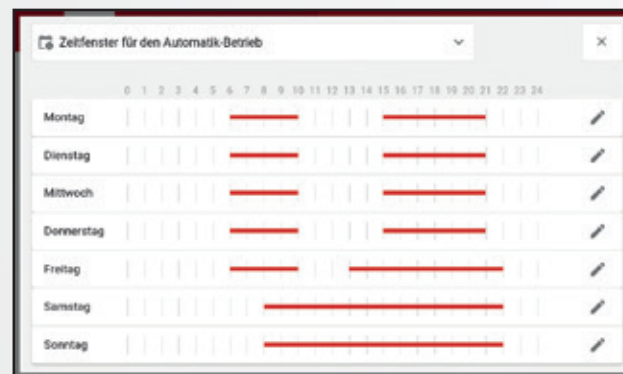
NEW!

With the new Lambdatronic 5000 boiler controller and the modern **7" glass touch display**, Froling is moving into the future. The new design is impressive, not only for its intuitive operation but also its numerous new features. The most important components can be freely selected in the tile overview and information and error messages can be customised. If desired, the control system can therefore inform you when the outside temperature drops or the ash box needs emptying, for example. This makes operating and running the system even simpler and easier to understand. The intelligent control management enables the virtually unlimited integration of heating circuits, hot water tanks and storage tanks.

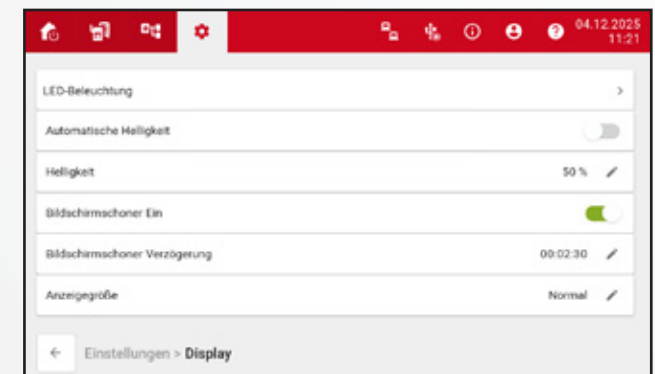
- Advantages:
- Precise combustion control by a Lambda controller using a Lambda probe
 - Virtually unlimited integration of heating circuits, hot water and buffer storage tanks
 - Glass touchscreen display with LED frame for status displays and presence detection
 - Individualisation of display content and font size
 - Guided wizards for simple configuration and commissioning
 - Simulation of values is available
 - Simple & intuitive operation
 - Various SmartHome solutions (e.g. Loxone, Modbus TCP) Remote control from the living room (room console) or via the Internet (froeling-connect.com)



Overview of the installed components in a tile display

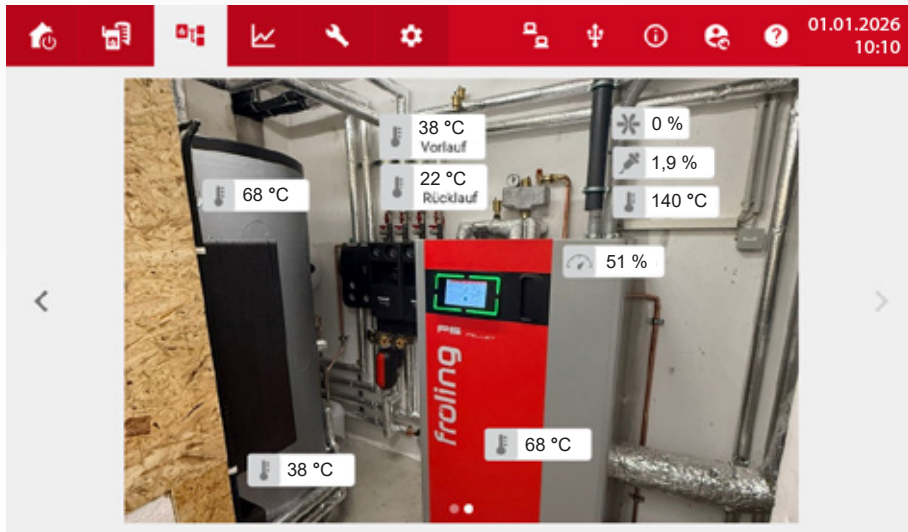


Editable time window for individual determination of heating times



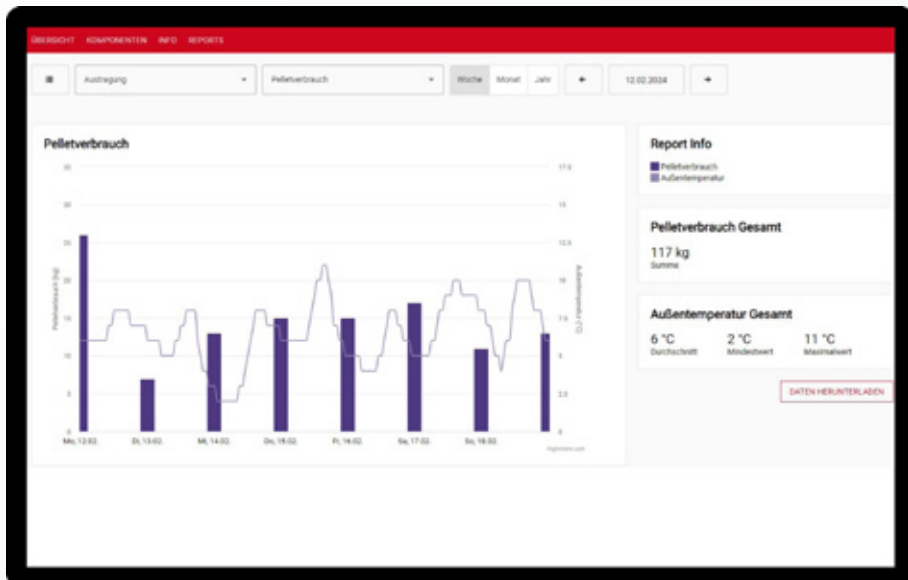
Numerous setting options for customising the display views

INDIVIDUAL SYSTEM IMAGE AND VISUALISABLE DATA ACQUISITION



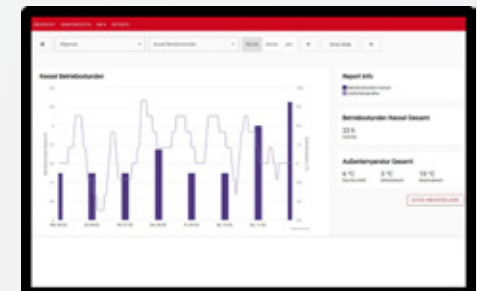
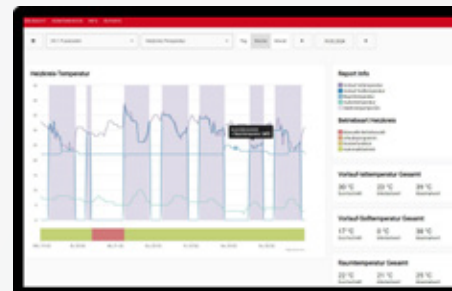
Experience your own boiler room interactively

For even greater clarity and convenience, the Lambdatronic 5000 controller offers the option of creating an individually configurable system image. Depending on your own preferences, you can upload a picture of the boiler room or the appropriate hydraulic diagram, for example, and add as many values as you like. The layout of the system diagram is very easy and provides a visually appealing and clear representation of the current values of the boiler and its hydraulic environment.



Data acquisition with history

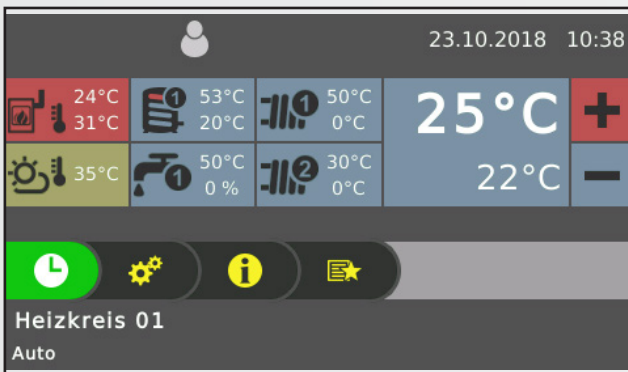
Pellet consumption, temperature values and operating hours as well as the solar yield with an integrated solar panel system can be checked at any time. Diagrams and graphical progress charts enable clear and statistical monitoring of heating and energy activities.



LAMBDATRONIC 3200 CONTROLLER

The Lambdatronic 3200 boiler controller with a 7" touch display enables simple and intuitive operation of your boiler. Intelligent control management makes it possible to connect up to 18 heating circuits, 4 storage tanks and 8 hot water tanks. The operating unit ensures a clear display of the operating statuses, while the optimally structured menu layout ensures simple operation. All essential functions can be selected by simply pressing icons on the large colour display.

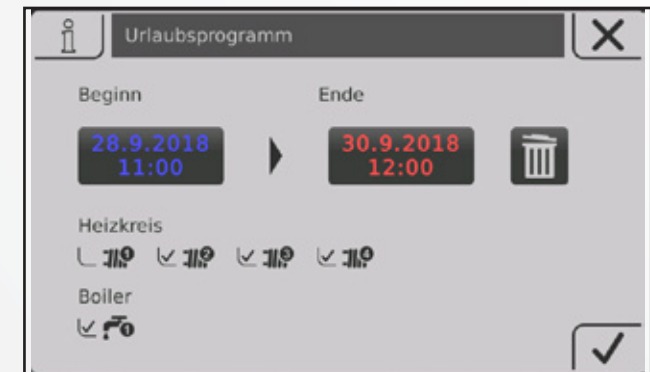
- Advantages:
- Precise combustion control by a Lambda controller using a Lambda probe
 - Up to 18 heating circuits, 8 water heaters and 4 storage tank management systems can be connected
 - Integration capability for a solar panel system
 - LED frame for status display with illuminated presence detection
 - 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/App)



General overview of heating circuit (start screen)



View of the heating times (individually configurable)



Overview of the holiday programme

EVERYTHING AT A GLANCE AT ALL TIMES WITH FRÖLING CONNECT

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 push message or e-mail (such as when the ash box should be emptied or in the event of faults).



NEW! Desktop version with even more options

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 at no charge in the Android Play Store and iOS App Store.

- Simple and intuitive operation of the boiler
- Status values can be viewed and changed in seconds
- Individual naming of the heating circuits
- Status changes are transmitted directly to the user (by e-mail or push message)
- No additional hardware (such as an Internet gateway) required

SMART HOME

Enjoy smart and convenient living with the Smart Home connection options from Froling.



Can be integrated into Loxone



Modbus

The system can be connected to a building management system via the Froling Modbus interface.

NEW! P5 PELLET 12 - 40 kW

The newly developed P5 Pellet offers state-of-the-art technology - with minimum space requirements. The optional integrated electrostatic particle separator (electrostatic precipitator) reduces dust emissions to a minimum. The integrated return flow booster keeps the boiler within the ideal temperature range, while the new Lambdatronic 5000 controller ensures even simpler operation and functionality.

Thanks to its compact design and low weight, the P5 Pellet can be easily transported to the boiler room (e.g. using a hand truck).

A++



- NEW! Lambdatronic 5000 controller with 7" glass touch display for even easier operation
- Integrated, self-cleaning particle separator (electrostatic precipitator) for very low dust emissions available as an option
- High-temperature cast-steel combustion chamber with patented slatted tipping grate
- Minimum footprint of only 0.42 to 0.53 m² (depending on output)
- Easy to bring in (e.g. using a sack truck)
- Flue pipe connection can be swung backwards or sideways (129 mm diameter)

**INTEGRATED PARTICLE SEPARATOR
(ELECTROSTATIC PRECIPITATOR)
AVAILABLE AS AN OPTION**

NEW! P5 PELLET 45 - 105 kW

The newly developed P5 Pellet offers state-of-the-art technology - with minimum space requirements. The optional integrated electrostatic particle separator (electrostatic precipitator) reduces dust emissions to a minimum and thus ensures even more environmentally friendly energy efficiency.

The integrated return flow boost with store loading pump keeps the boiler in the ideal temperature range, while the new Lambdatronic 5000 controller ensures even simpler operation and functionality. The P5 Pellet is also available in a model with innovative condensing boiler technology in the 45-60 kW output range.



- NEW! Lambdatronic 5000 controller with 7" glass-touch display for even easier operation
- Integrated self-cleaning particle separator (electrostatic precipitator) for very low dust emissions available as an option
- Very small footprint: just 1.02 to 1.29 m² (depending on output)
- Divisibility for complex installation situations
- Flue-pipe connection can be swung backwards or sideways (diameter 152 mm up to 60 kW / 179 mm from 70 kW output)
- Cascade operation available without an additional module

**INTEGRATED PARTICLE SEPARATOR
(ELECTROSTATIC PRECIPITATOR)
AVAILABLE AS AN OPTION**

PELLET BOILER

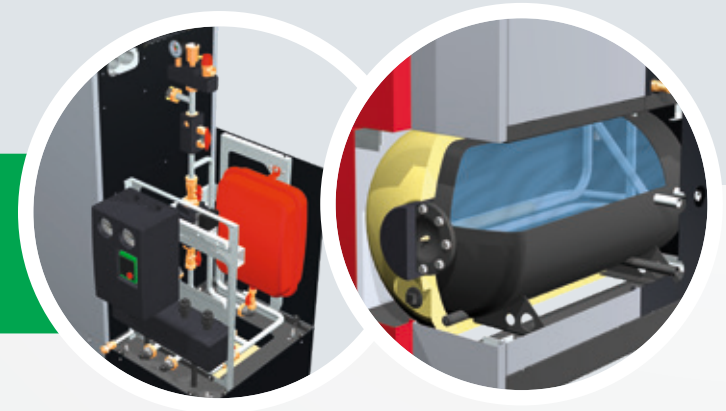
PE1 PELLET 15 - 35 kW

Occupying just 0.38 m² (60 x 64 cm) of space, the PE1 Pellet boiler is perfect for small room. The 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.



- Lambdatronic 3200 controller
- Speed-controlled and quiet induced draught fan
- Automatic WOS system for maximum efficiency
- Energy-saving drive for double protection system
- **Condensing boiler technology** available as an option

AVAILABLE AS A PE1 PELLET UNIT
(15-20 kW) WITH OPTIONAL DHW
TANK UNIT AND HYDRAULIC UNIT





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.



- Lambdatronic 3200 controller
- Integrated condensing boiler technology
- Stainless steel calorific value heat exchanger with automatic cleaning (flushing)
- Energy-efficient and energy-saving
- Room air-independent operation
- Flue pipe connection can be swung backwards or upwards

**INTEGRATED PARTICLE SEPARATOR
(ELECTROSTATIC PRECIPITATOR)
AVAILABLE AS AN OPTION**

PELLET BOILER



PT4e 100 - 350 kW

Sturdy, convenient, reliable and versatile: The PT4e pellet boiler is perfect in every way. Well-planned use of energy-saving drives ensures extremely low power consumption. With the durable high-temperature silicon carbide combustion chamber, the PT4e achieves high efficiencies with minimal emissions, and the PT4e can be optionally equipped with an electrostatic particle separator (electrostatic precipitator). Thanks to its modular construction, the Froling PT4e is particularly easy to position and install. The entire boiler comes fully assembled, electrically wired and tested.

- Lambdatronic 3200 controller
- Large volume ash container for long emptying intervals
- Heat exchanger with automatic cleaning (WOS) all passes and bottom drive
- Special tipping grate technology with 110° tipping grate inclination

**INTEGRATED PARTICLE SEPARATOR
(ELECTROSTATIC PRECIPITATOR)
AVAILABLE AS AN OPTION**

PELLET OUTFEEDERS



Manual system with 4 suction probes



With automatic back-flushing

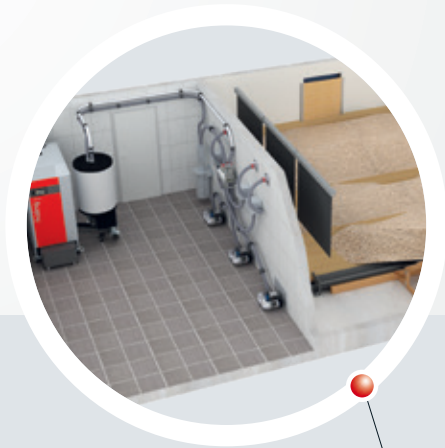
RS 4 / RS 8 pellet suction system



Triple RS 4 / RS 8 pellet suction system



Cube 330 / 500 S



1-2-3 screw-conveyor system (Ø 110)



Available in 7 sizes

Variosilo pellet bag



Pellet Mole®

Induced draught screw system (Ø 80)



Pellet box

FIREWOOD BOILER



NEW! S2 TURBO 15 - 20 kW

The S2 Turbo firewood boiler is a flexible solution for all those who only want to burn firewood at the moment. Advantage: The pellet unit can be retrofitted at any time.

The S2 Turbo is equipped with the new Lambdatronic 5000 controller and also offers impressive new features such as the swivelling flue pipe connection and automatic ignition (optional). A self-cleaning electrostatic particle separator (electrostatic precipitator) can be integrated into the boiler and retrofitted at any time.

- NEW! Lambdatronic 5000 controller with 7" glass touch display for even easier operation
- Integrated, self-cleaning particle separator (electrostatic precipitator) available as an option for very low dust emissions
- Unique air duct concept with regulated supply of air for pre-heating
- High-temperature plate combustion chamber
- Flue pipe connection can be swung backwards or upwards (129 mm diameter)

- **OPTIONAL WITH PELLET UNIT (RETROFITTABLE)**
- **INTEGRATED PARTICLE SEPARATOR (ELECTROSTATIC PRECIPITATOR) AVAILABLE AS AN OPTION**



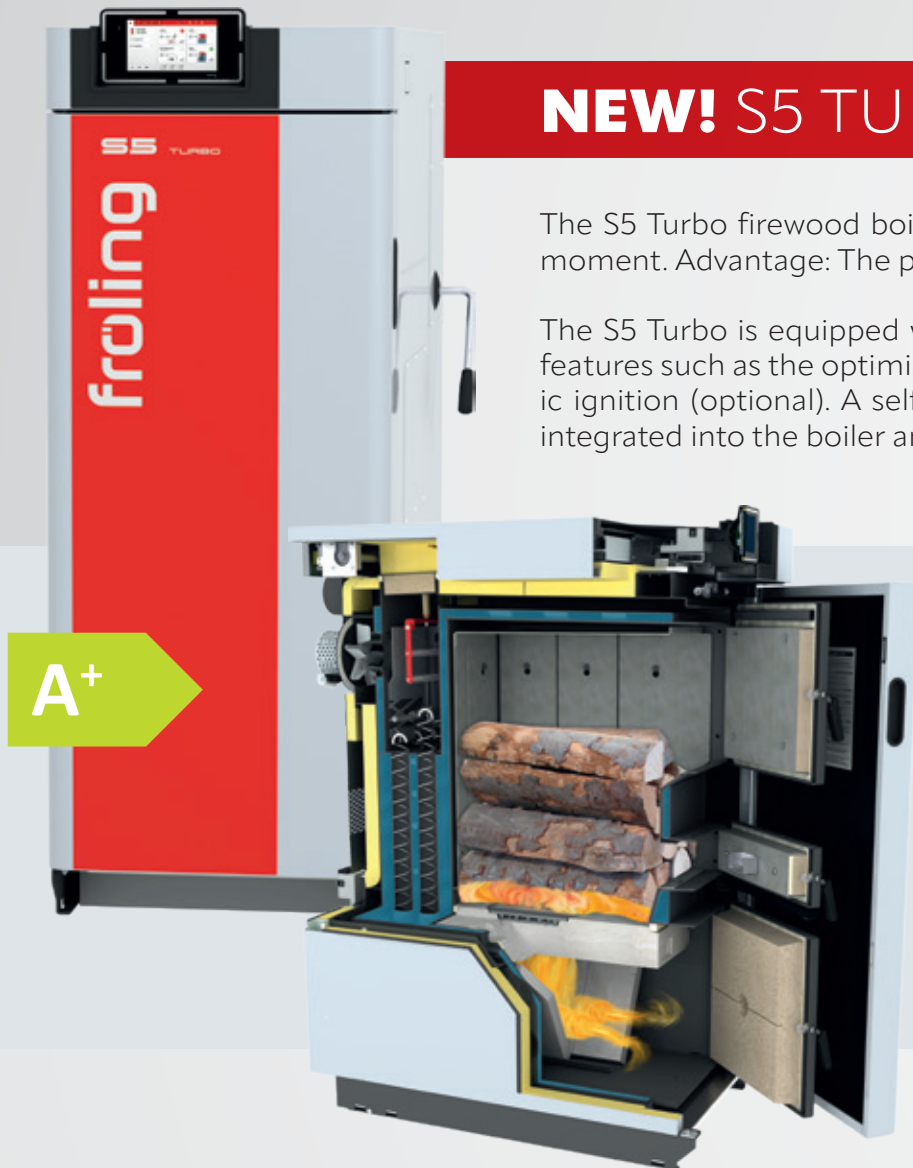
NEW! S2 DUAL COMPACT 15 - 20 kW

The S2 Dual combines two perfect systems in one, with two separate combustion chambers for burning firewood and pellets. Ignition of the firewood can be performed automatically at any time using the pellet burner. Once the firewood has burnt down, automatic operation can be continued using pellets if required. 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.



- NEW! Lambdatronic 5000 controller with 7" glass touch display for even easier operation
- Integrated, self-cleaning particle separator (electrostatic precipitator) available as an option for very low dust emissions
- Automatic switchover between firewood and pellets
- Fully automatic pellet burner
- Automatic control of primary and secondary air
- Automatic ignition, even in firewood mode
- Flue pipe connection can be swung backwards or upwards (129 mm diameter)

**INTEGRATED PARTICLE SEPARATOR
(ELECTROSTATIC PRECIPITATOR)
AVAILABLE AS AN OPTION**



NEW! S5 TURBO 22 - 48 kW

The S5 Turbo firewood boiler is a flexible solution for all those who only want to burn firewood at the moment. Advantage: The pellet unit can be retrofitted at any time.

The S5 Turbo is equipped with the new Lambdatronic 5000 controller and also offers impressive new features such as the optimised V combustion chamber, the rotatable flue pipe connection and automatic ignition (optional). A self-cleaning electrostatic particle separator (electrostatic precipitator) can be integrated into the boiler and retrofitted at any time.

- NEW! Patented V-combustion double rotary chamber of silicon carbide
- NEW! Lambdatronic 5000 controller with 7" glass touch display for even easier operation
- Large fuel loading chamber for half-metre wood blocks
- Available with optional automatic ignition
- With pellet flange for retrofitting a pellet unit (S5 Dual)
- Flue pipe connection can be swung backwards or upwards (diameter 129 mm up to 30 kW / 149 mm from 34 kW output)

- **OPTIONAL WITH PELLETT UNIT (RETROFITTABLE)**
- **INTEGRATED PARTICLE SEPARATOR (ELECTROSTATIC PRECIPITATOR) AVAILABLE AS AN OPTION**

NEW! S5 DUAL 22 - 48 kW

The S5 Dual combines two perfect systems in one, with two separate combustion chambers for burning firewood and pellets. Ignition of the firewood can be performed 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+

- NEW! Patented V-combustion double rotary chamber of silicon carbide
- NEW! Lambdatronic 5000 controller with 7" glass touch display for even easier operation
- Automatic switchover between firewood and pellets
- Fully automatic pellet burner
- Automatic control of primary and secondary air
- Automatic ignition, even in firewood mode
- The flue-pipe connection can be swung backwards or upwards (diameter 129 mm up to 30 kW / 149 mm from 34 kW output)

**INTEGRATED PARTICLE SEPARATOR
(ELECTROSTATIC PRECIPITATOR)
AVAILABLE AS AN OPTION**

FIREWOOD BOILER

NEW! S3v TURBO 22 - 45 kW

The Fröling S3v is a powerful firewood boiler that impresses with maximum efficiency and ease of use. The optimised V-combustion chamber ensures clean burning and low emissions. The unique automatic heat-up function and the Lambdatronic 3200 controller with 7" colour touch display, compatible with the Fröling "Connect" app, make the S3v Turbo a modern and convenient heating solution.

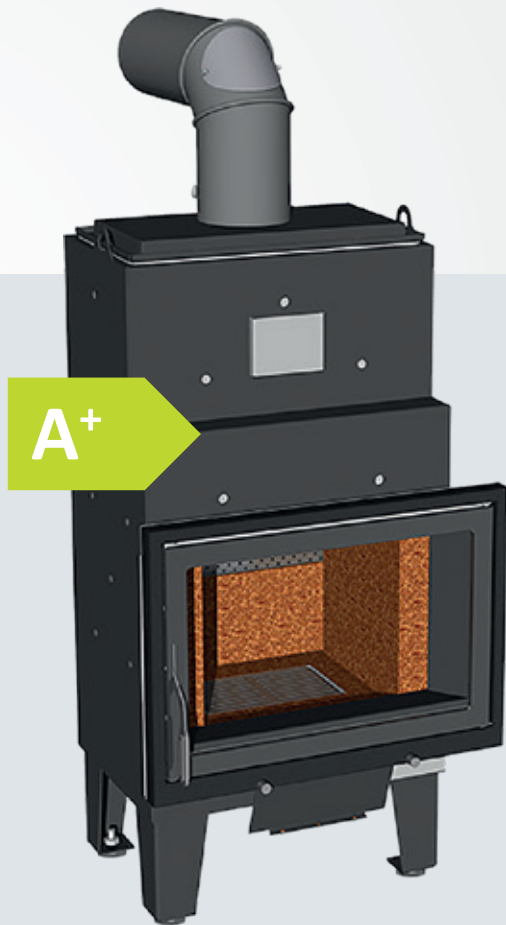
- NEW! Patented V-combustion double rotary chamber of silicon carbide
- Lambdatronic 3200 controller
- Compatible with Fröling "Connect" app
- Unique automatic heating-up
- Large fuel loading chamber for half-metre wood blocks
- Manual WOS system for maximum efficiency
- Available with optional automatic ignition

NEW! PATENTED V-COMBUSTION
DOUBLE ROTARY CHAMBER OF
SILICON CARBIDE

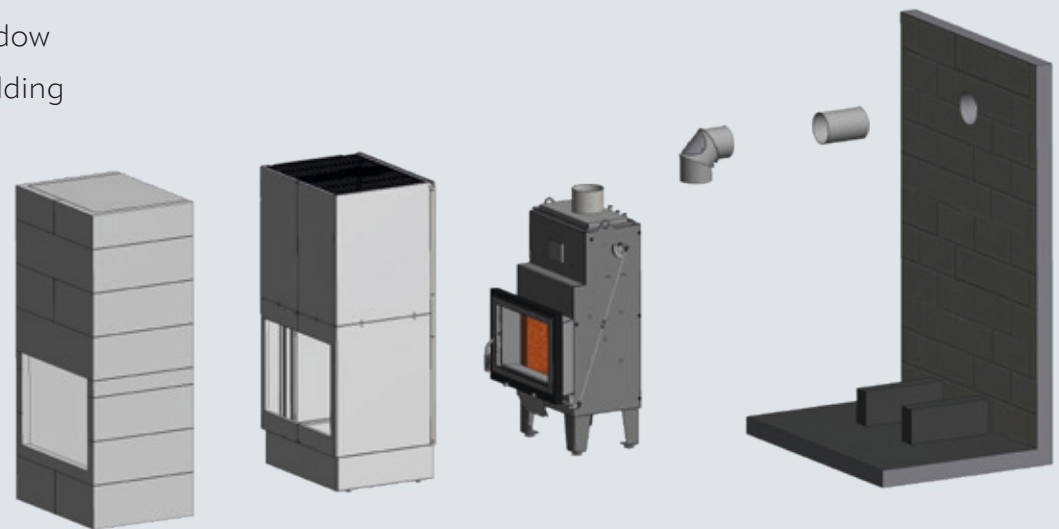
A+

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
- Customisable cladding



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 heat exchanger tubes (performed from the 1st stroke) increases convenience, leads to clean heating surfaces and thus to fuel savings. In addition, the T4e can be equipped with an electrostatic particle separator as an option.



- Automatic heat exchanger cleaning (performed from the 1st stroke)
- An integrated particle separator (electrostatic precipitator) can be retrofitted at any time
- Simple and intuitive operation with a 7" colour touch display
- Two-part combustion grate consisting of a fixed pushing zone and automatic tipping grate
- Lambda controller with broadband probe for optimum combustion
- Automatic self-diagnosis before each start-up

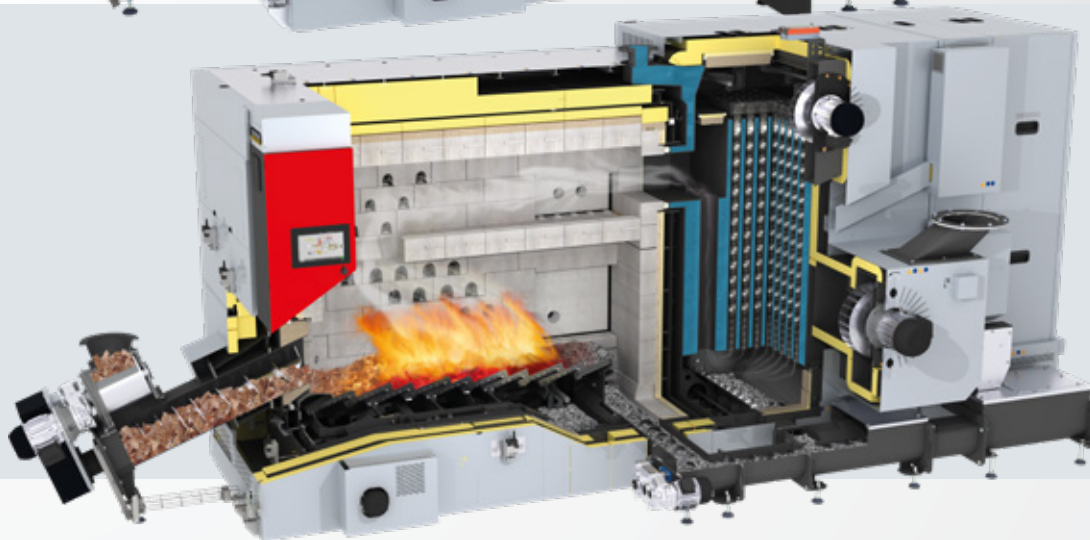
**INTEGRATED PARTICLE SEPARATOR
(ELECTROSTATIC PRECIPITATOR)
AVAILABLE AS AN OPTION**

LARGE SYSTEMS - WOOD CHIPS AND PELLETS



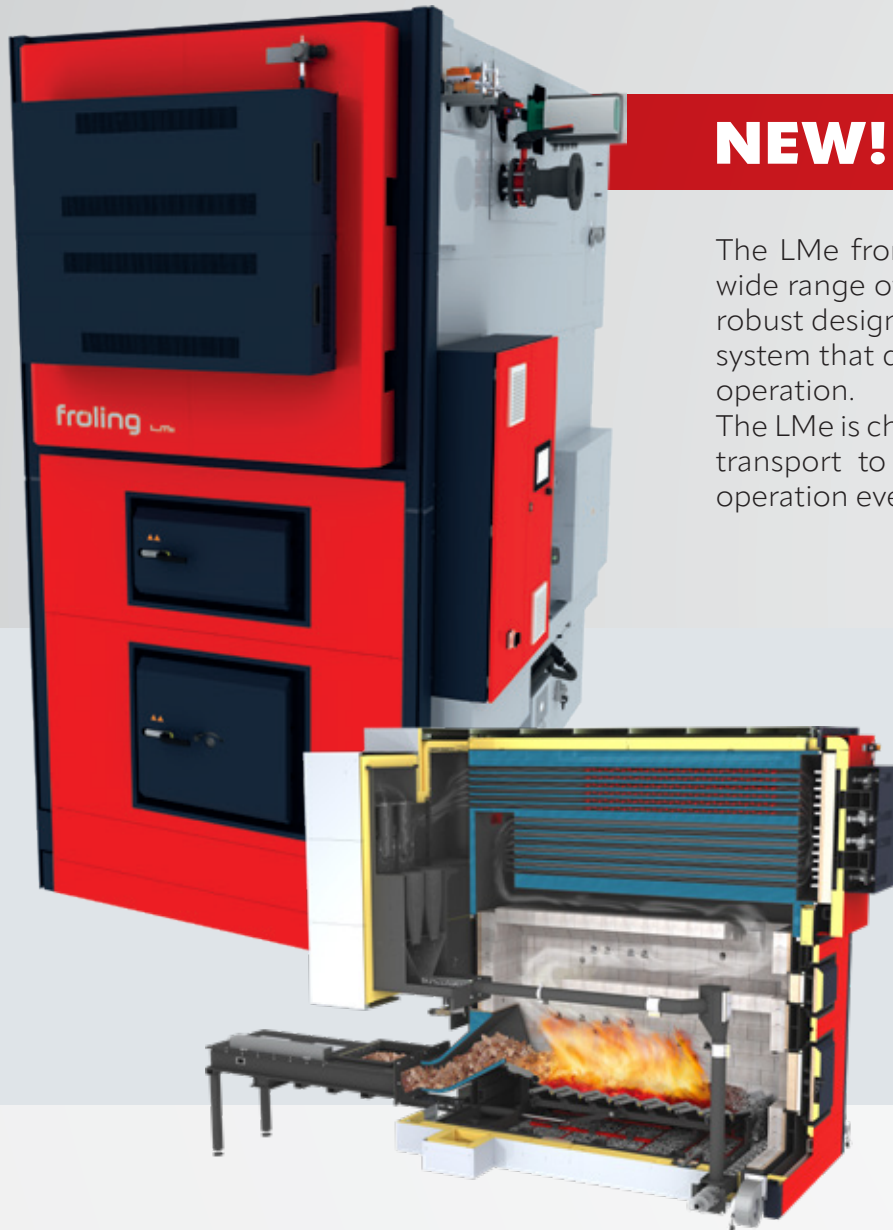
NEW! TMe 350 - 550 kW

The Froling TMe is an innovative heating system; it employs a fully automatic wood burner which uses a wide variety of wood-based materials. The TMe not only boasts innovative combustion technology but also offers impressive control options. All the functions are fully automatic, from the fuel feed and combustion control right through to cleaning and ash removal. The high-tech TMe is designed to be extremely robust, durable and easy to service.



- Patented modular components of silicon carbide
- Integrated electrostatic precipitator
- Fully automatic ash removal
- High temperature combustion chamber with moving grate
- Speed-controlled and monitored induced draught fan

LARGE SYSTEMS - WOOD CHIPS AND PELLETS



NEW! LMe 800 - 1200 kW

The LMe from Fröling is a future-oriented heating system for the fully automatic use of a wide range of biomass fuels such as wood chips and pellets. With the LMe, Fröling ensures a robust design, modular components and easy access for maintenance. The result is a heating system that delivers impressive reliability, efficiency and technological maturity in day-to-day operation.

The LMe is characterised by its high degree of automation. All central processes, from material transport to ash removal, run fully automatically, enabling low-maintenance continuous operation even under demanding conditions.

- 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 (formerly G 50) or hydraulic P63 (formerly G 100)
- Flue gas recirculation system to optimise combustion
- Fully automatic ash removal



TURBOMAT 150 - 500 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 (formerly G 50) or hydraulic P63 (formerly G 100)
- Flue gas recirculation system to optimise combustion
- Fully automatic ash removal

LAMBDMAT 650 - 1500 kW

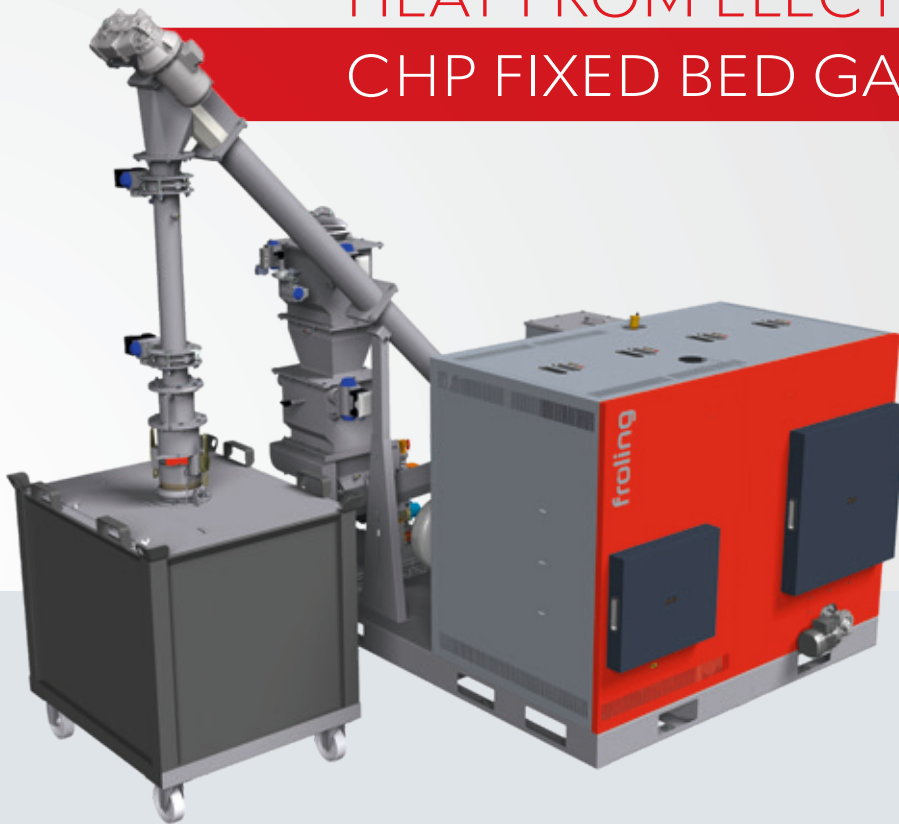
The Froling Lambdamat is a unique, fully automatic heating system for burning wood chips, shavings and pellets. It not only offers innovative combustion technology, but also offers a high level of convenience and operational reliability. The boiler sizes are suited to fuels with a water content even 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 (formerly G 50) or hydraulic P63 (formerly G 100)
- Flue gas recirculation system to optimise combustion
- Fully automatic ash removal

HEAT FROM ELECTRICITY AND WOOD CHP FIXED BED GASIFIER SYSTEM

ENERGY
GENIE



The Froeling CHP fixed bed gasifier is available with an electrical output of 46 / 50 / 56 kW or thermal capacity of 115 kW. 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, easy to maintain
- Fully automated operation
- Quality product of Austria
- Overall system: Boiler, wood-gas system, chamber discharge systems including materials handling technology – all from a single source
- Existing TÜV concept 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

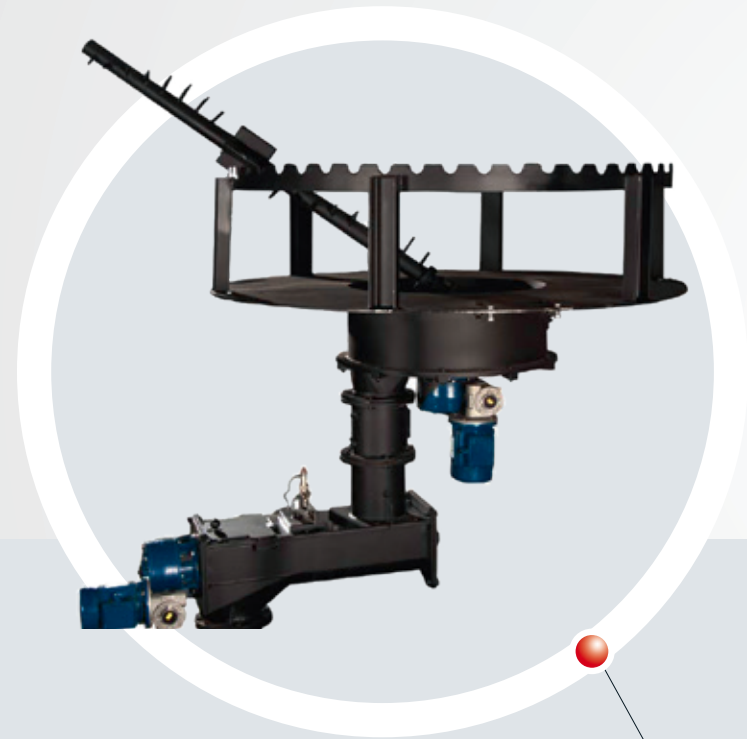
Austria - Jennersdorf district heating

WOOD CHIPS OUTFEEDER SYSTEMS

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

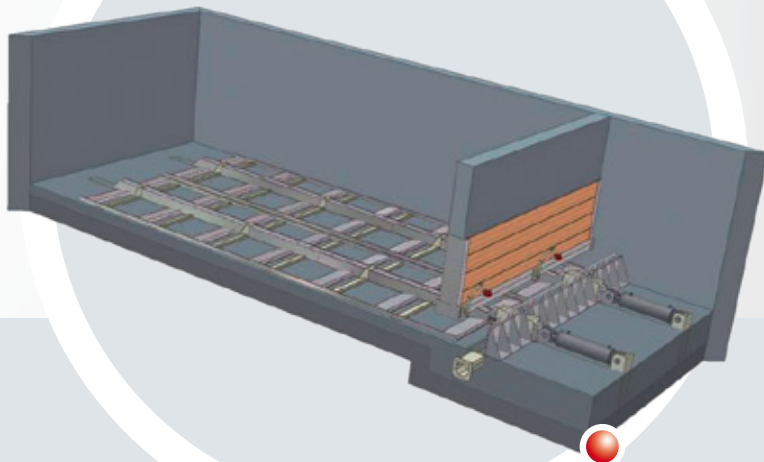


Sprung blade agitator

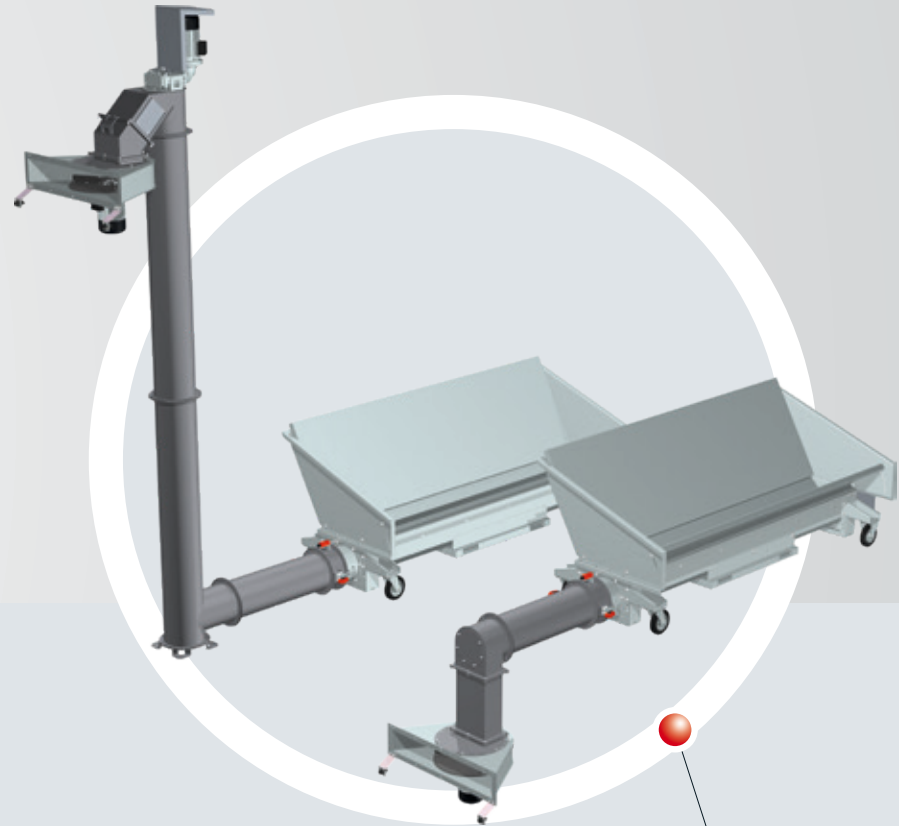


Inclined screw discharge unit

PLEASE CONTACT OUR SALES
ENGINEERS FOR FURTHER DETAILS



Pusher discharge unit



Horizontal and vertical bunker
filling systems

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



SPAR SUPERMARKET

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



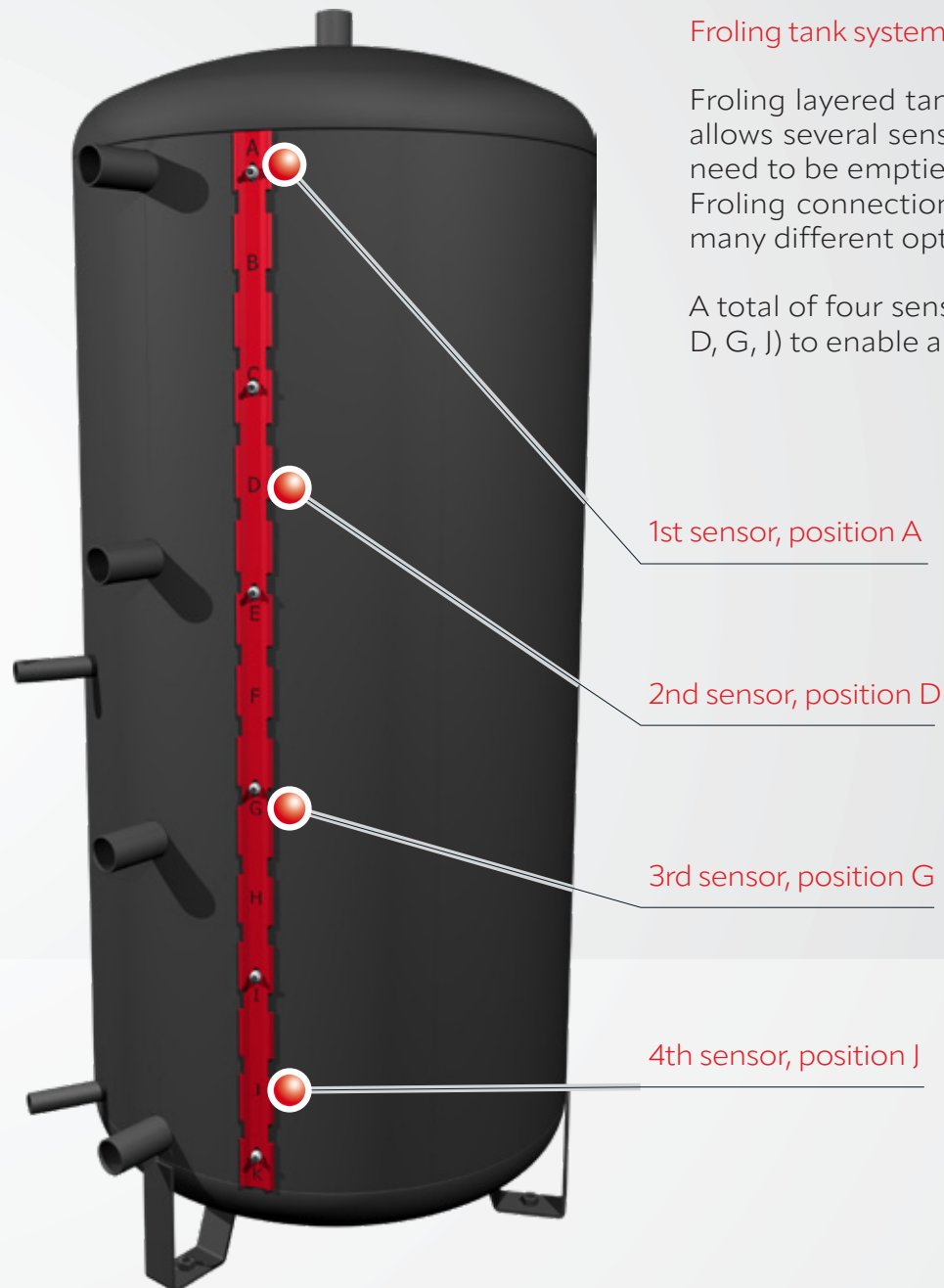
MKW OBERFLÄCHEN & DRAHT GMBH

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

Froling tank systems with sensor strip

Froling layered tanks have a terminal strip for optimal positioning of the sensors. This allows several sensors to be placed at any desired heights. The storage tank does not need to be emptied for relocation. The labelling of the sensor strip and corresponding Froling connection diagrams makes the sensors extremely easy to position and offer many different options.

A total of four sensors are attached to the terminal strip at equal intervals (positions A, D, G, J) to enable an exact calculation of the replenishment quantity.



CORRECT POSITIONING OF THE SENSORS ON THE TERMINAL STRIP IS CRUCIAL FOR OPTIMUM OPERATION OF THE SYSTEM!



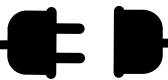
NEW! HYDRAULIC STATIONS

FWS, HKS, SLS, STS, UGS

The newly developed hydraulic stations from Froling offer even more convenience and efficiency for your heating system. The stations are **delivered fully assembled and ready for connection**, installation is child's play and can be completed in next to no time. After connecting the hydraulic station and starting the convenient commissioning wizard, this is detected by the Lambdatronic 5000 controller and shown on the display (Plug and Play). This makes configuration child's play.

- The FWS fresh water station supplies hygienic hot water only when required, thus minimising heat loss.
- The HKS heating circuit station optimises and controls the interaction between two mixed heating circuits or between a heating circuit and charging of the storage tank.
- The SLS solar charging station regulates the heat transfer from a solar circuit to a storage tank or multiple storage tanks.
- The STS system separation station allows hydraulic separation of two sub-circuits from each other.
- The UGS transfer station enables the integration of local and district heating and regulates heating circuits and domestic hot water according to your needs. The Lambdatronic 5000 hydraulic field controller is included in the scope of delivery.

Plug and Play



All stations are supplied ready to plug in.





NEW! HS MODULAR LAYERED TANK

The HS modular layered tank from Froling is made of sheet steel with dished bases, primed on the outside for corrosion protection, untreated on the inside and equipped with an integrated TLS temperature control system. The tank is prepared for the connection of a fresh water station and a heating circuit station with two mixed heating circuits.

It stands on three or four legs. Adjustable feet for a height adjustment of up to 30 mm are available. To optimise the arrangement of the sensors, the storage tanks are equipped with a sensor terminal strip; this allows several sensors to be positioned at any height.

- Stores excess heat
- Precise temperature stratification for high energy yield through TLS temperature control system
- Direct connection of a fresh-water station that supplies hygienically fresh heated hot water at all times, with low standby losses.
- Direct connection of a heating station with two mixed heating circuits
- Connection option for up to three electric heating elements 1 ½"
- Communicating tank expansion in confined spaces
- Can be combined with other heat generators
- High quality insulation (100 mm) with outer jacket for optimum thermal insulation and low radiant heat losses for maximum efficiency, fire protection class B2
- Circulation module for fresh water station (optional) enables short-term provision of hot water at the taps via an adjustable timer or tap request
- Sensor terminal strip for variable assignment of sensors
- Height adjustable feet (optional)



LAYERED TANKS / SOLAR LAYERED TANKS

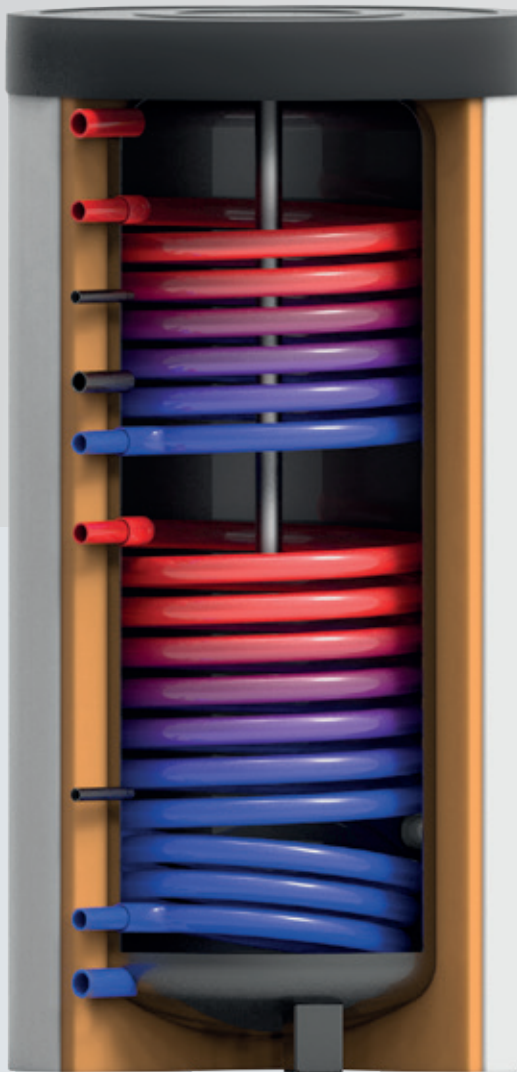
The ingenuity is in the detail. The Fröling layered tanks and solar layered tanks feature an impressive heat management concept, with optimal energy intake and withdrawal. The Fröling solar layered tank also makes it easy to integrate solar power.

- Terminal strip for flexible positioning of sensors
- Height adjustable feet (optional)
- Up to 20% more energy yield due to high quality insulation (Neopor and fleece)
- Can be easily combined with a wide variety of heat generators
- High energy yield due to precise temperature layering in the tank
- Communicating tank expansion can be performed
- Low running costs
- Integration of a photovoltaic system using several connection sockets for electric cartridge heaters
- Easy solar integration (with solar layered tanks)

H2 HYGIENIC LAYERED TANKS / H3 HYGIENIC SOLAR LAYERED TANKS

The Froling 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 allows integration of solar power. Two high-performance solar collectors guarantee efficient utilisation of solar energy.

- Terminal strip for flexible positioning of 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 on the flow principle
- Optimal temperature layering and high performance
- Communicating storage tank extension for boiler rooms with challenging geometry
- Efficient solar integration via two high performance solar elements (for H3 hygienic solar layered tanks)



UNICELL NT-S HOT WATER TANK

A great deal of energy can be saved in the course not only of heating but also of hot water preparation. In this respect Fröling is blazing a new trail with the Unicell NT-S. The vacuum enamelling and magnesium protection anode protects against corrosion and ensures good resistance to high temperatures and a long life cycle. Be it for an optimum hot water heater for every heat boiler or for an efficient solar tank, the Fröling Unicell NT-S is fully versatile and guarantees efficient and hygienic hot water preparation. The Fröling Unicell NT-S permits efficient use of solar energy to hot water preparation.

- High quality insulation with outer jacket
- Generously dimensioned heat exchanger surface areas for optimum use of solar energy
- Generously dimensioned cleaning flange for easy cleaning (from 300 litres)



BWP DOMESTIC HOT WATER 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.

- Further energy cost savings in conjunction with a photovoltaics system
- Easy to operate and assemble (ready to connect when delivered)
- Energy-saving operation, high coefficient of performance (COP 3.61 to 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 protection against Legionella
- Can be combined with other energy sources (boiler, solar)
- Anti-freeze protection



Pellet boiler

| | | | |
|-------------|------------|-----------|--------------|
| PE1 Pellet | 15 - 35 kW | P5 Pellet | 12 - 105 kW |
| PE1c Pellet | 16 - 22 kW | PT4e | 100 - 350 kW |



Firewood boiler

| | |
|-----------|------------|
| S2 Turbo | 15 - 20 kW |
| S3v Turbo | 22 - 45 kW |
| S5 Turbo | 22 - 48 kW |

Dual fuel boiler

| | |
|-----------------|------------|
| S2 Dual compact | 15 - 20 kW |
| S5 Dual | 22 - 48 kW |



Wood chip boiler / large systems

| | | | |
|-----------|---------------|-----|---------------|
| T4e | 20 - 350 kW | TMe | 350 - 550 kW |
| Turbomat | 150 - 550 kW | LMe | 800 - 1200 kW |
| Lambdamat | 650 - 1500 kW | | |



Heat and electricity from wood

| | |
|------------------------|--------------------------------|
| Fixed bed gasifier CHP | 46 - 56 kW (power consumption) |
| | 95 - 115 kW (thermal output) |

Your Fröling partner

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