

Product range

7 - 1000 kW



froling 

THE RECOGNISED NAME FOR HEATING WITH WOOD AND BIOMASS



froling



Froling has been the mark of quality for heating with wood and biomass for over 50 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 150,000 operating systems with a capacity range from 7 to 1,000 kW.



FACTS AND FIGURES

- **Factories:** Grieskirchen (AUT), Stritzing (AUT), Marzahna (GER)
- **Sales/training/competence centres:** Grieskirchen (AUT), Munich (GER), Strasbourg (FRA), Bolzano (ITA)
- **Staff:** 600
- **Export rate:** > 70 percent
- **Markets:** Main market Europe (Germany, Austria, Italy, Switzerland, France, UK, Ireland, Slovenia, Slovakia, Poland, Belgium, Netherlands, Luxembourg, Spain, Norway, Denmark, Sweden, Czech Republic, Hungary, Russia, Romania, Croatia, Serbia, Bosnia-Herzegovina), USA, other distributors around the world
- **Awards:**



International



USA



Ireland



Germany



International



Austria



France



Austria



SYSTEMATIC ADDED VALUE

Froling's product range and services include:

- Biomass boilers capable of burning a wide selection of fuels and producing outputs ranging between 7 and 1,000kW
- Flexible store discharge systems for every requirement
- Silo and bunker filling systems
- Flue gas cleaning
- Control panel and visualisation software
- Innovative storage systems up to 50 m³
- Over 150 company-trained technicians ensure maximum coverage for all customer locations.
Available 365 days a year - 24 hours a day.

OUR WIDE RANGE OF PRODUCTS WITH A CAPACITY RANGE FROM 7 TO 1,000 KW

FIREWOOD



WOOD CHIPS



PELLETS



OTHER BIOMASS



Our products are manufactured in our own factories in Austria and Germany based on our own expertise. Supplying complete boiler systems, we are a global partner for various system solutions. No matter what your need, Froling offers a full advice, planning, implementation and after-care service.

THE BEST PRODUCTS IN 2014

For years, technical advancement has been one of Froling's priorities. This was borne out with the Plus X Award, the world's greatest innovation prize for technology, sport and lifestyle. Froling's biomass boilers came out on top in five categories and were voted Best Product of 2014 by the judging panel.



Award-winning products:

- P1 Pellet pellet boiler
- S4 Turbo (F) firewood boiler
- SP Dual dual-fuel boiler
- T4 wood chip boiler



LAMB DATRONIC S/P/H 3200

With the new Lambdatronic S/P/H 3200 control, Froling is taking a step into the future. The Lambda control with broadband probe ensures precise combustion. Up to 4 storage tanks, 8 hot water tanks and 18 heating circuits can help manage the heating. You can also benefit from the ability to integrate other means of energy production such as solar panels.

Advantages:

- Exact combustion control
- Simple and intuitive operation
- Also available with optional touch display



5 YEAR XXL WARRANTY*

WITH AN XXL MAINTENANCE CONTRACT

Taking out our XXL maintenance contract provides you with a five year full warranty. Servicing is carried out by our customer service technicians. Our staff know our products inside out and have the relevant know-how and specialist tools to professionally maintain your system.

Advantages:

- High operating safety and reliability
- Maximum service life
- Regular updating of your system
- Low heating costs thanks to optimal efficiency



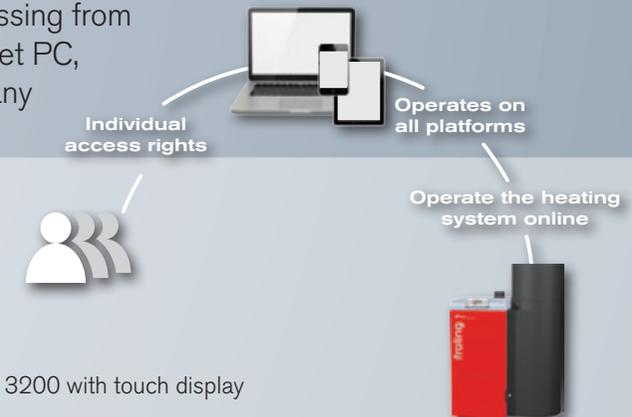
* Subject to warranty conditions and availability in your country

NEW! FROLING CONNECT

The new Froling Connect internet portal allows you to operate your heating system conveniently over the internet. Easy to use and available round the clock, you can remotely display or change all operating parameters and customer parameters wherever you happen to be. Whether accessing from your smartphone, PC or tablet PC, the portal is available from any platform.

Advantages:

- Operate the heating system online
- Individual access rights
- Available any time, any place
- Operates on all platforms
- Available for Lambdatronic S/P/H 3200 with touch display



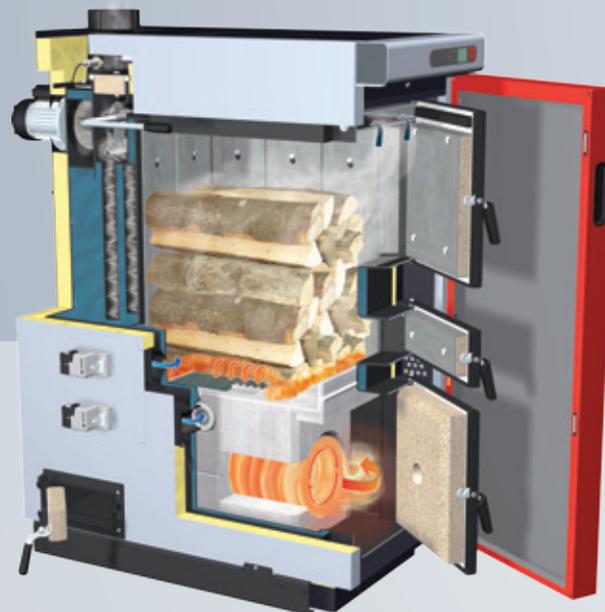


NEW! S1 TURBO FIREWOOD BOILER 15 - 20 kW

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 air and secondary air with a single actuator. The fuel loading chamber door can be closed shortly after lighting.

Special features:

- Large fuel loading chamber for 50 cm wood logs
- Rectangular heat exchanger pipes with turbulators
- Unique air duct concept with regulated air supply for heating up
- Speed-regulated, quiet induced draught fan
- Lambdatronic S 3200 control
- High-temperature firebrick-lined combustion chamber
- Air-cooled fuel loading chamber and cleaning doors
- WOS system (optional)



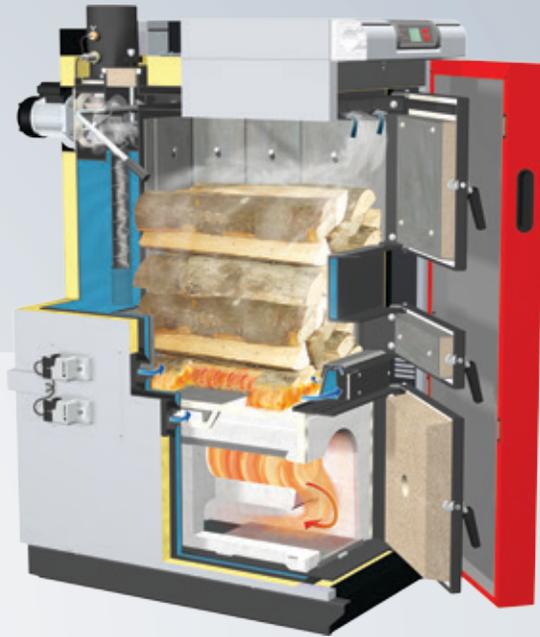
S3 TURBO FIREWOOD BOILER 18 - 45 kW

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.

Special features:

- Large fuel loading chamber for 50 cm wood logs
- WOS system
- Speed-regulated, quiet induced draught fan
- S-Tronic / S-Tronic Plus / S-Tronic Lambda controller
- High-temperature turbulence combustion chamber
- Special carbonisation gas extraction system
- Optional broadband probe

**NEW! NOW AVAILABLE
WITH LAMBDA PROBE
AND ACTUATORS**



S4 TURBO FIREWOOD BOILER 15 - 60 kW

Load, light, close the door and feel the heat! Froling's S4 Turbo is the ultimate comfort package with a large 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 (efficiency optimisation system) fitted as standard.

Special features:

- Large fuel loading chamber for 50 cm wood logs
- WOS system as standard
- Speed-regulated, quiet induced draught fan
- Lambdatronic S 3200 control
- Unique automatic heat-up and special carbonisation gas extraction system
- Available with optional automatic ignition
- Available with optional pellet flange for SP Dual (for S4 Turbo 15 - 40 kW)
- S4 Turbo 15 - 28 kW available with optional condensing boiler technology



SP DUAL DUAL-FUEL BOILER 15 - 40 kW

The SP Dual combines two perfect systems in one, with two separate combustion chambers for burning firewood and pellets. Highly efficient and convenient - the SP Dual ensures low emissions and energy costs. 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.

Special features:

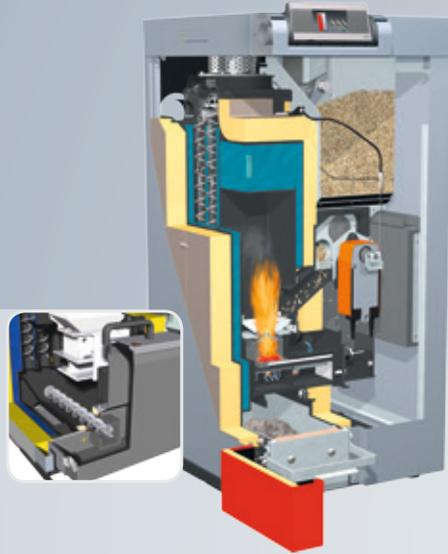
- Automatic switchover between firewood and pellets
- Easy to operate and maintain
- High-quality silicon carbide combustion chamber
- Fully-automatic pellet burner
- Automatic control of primary and secondary air
- Automatic ignition, even in firewood mode
- Automatically switches to pellet operation once firewood has burned down
- Pellet unit can be added any time



P1 PELLET PELLET BOILER

7 - 20 kW

Occupying just 0.38 m² (60 x 64 cm) of space, the P1 Pellet boiler sets new standards. The new P1 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 P1 Pellet is particularly suitable for low-energy and passive houses.



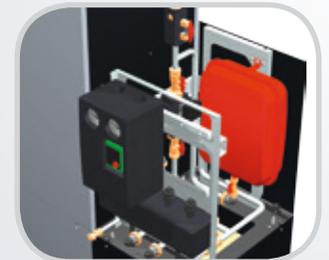
Special features:

- Compact
- Available with optional DHW tank unit (130 l)
- Available with optional hydraulic unit
- Lambdatronic P 3200 control with touch display
- Speed-regulated, quiet induced draught fan
- WOS system (efficiency optimisation system) for maximum efficiency
- Energy-saving drive for double protection system



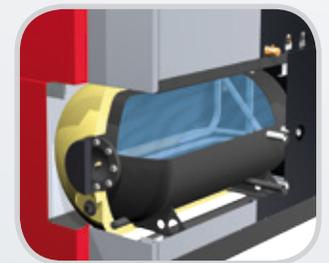
HYDRAULIC UNIT (OPTIONAL)

The hydraulic unit can be easily added at any time and contains up to two heating circuit pumps and mixers, an expansion tank, a line regulating valve, a safety group and an optional DHW tank pump assembly.



DHW TANK UNIT (OPTIONAL)

The vacuum-enamelled DHW tank unit has impressively compact dimensions and high-quality solid foam insulation, and with a capacity of approx. 130 l, it is the ideal solution for hot water preparation.



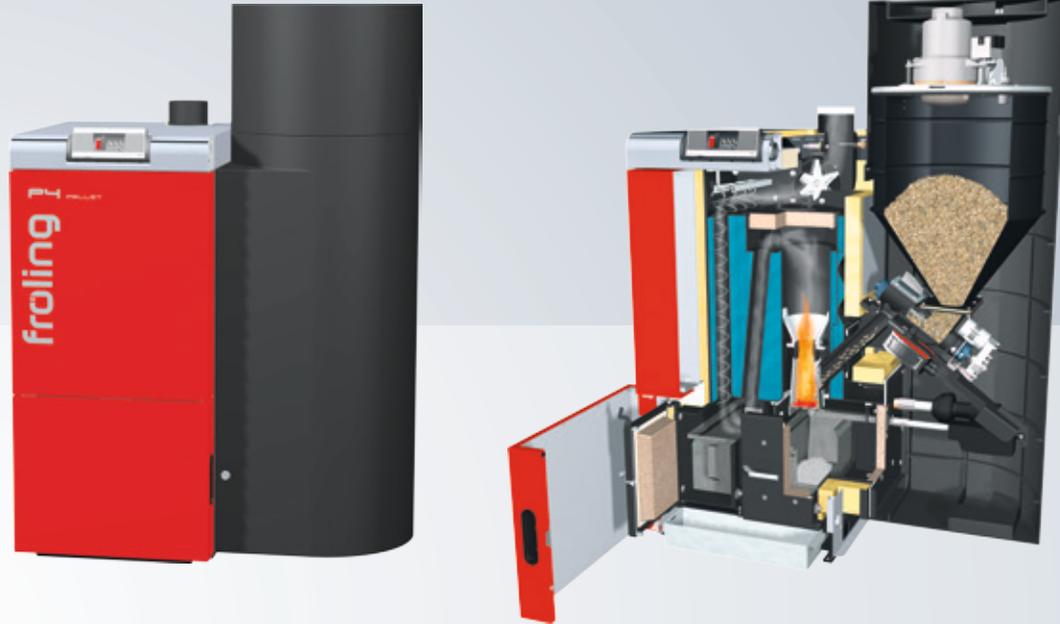
P4 PELLET PELLET BOILER

15 - 105 kW

The Froling P4 Pellet with its fully automatic operation provides the ultimate in comfort and convenience. Thanks to its wide capacity range, the P4 Pellet is suitable for both low-energy homes and buildings with increased heating requirements. The Lambdatronic P 3200 smart control management system covers all control functions and ensures optimum combustion.

Special features:

- Multi-layer heat exchanger with 3-pass design
- Little cleaning required
- High energy efficiency
- Speed-regulated, quiet induced draught fan and Lambda control
- Lambdatronic P 3200 control with touch display
- Room air independent operation
- Comprehensive safety concept
- P4 Pellet 15 - 25 kW available with optional condensing boiler technology



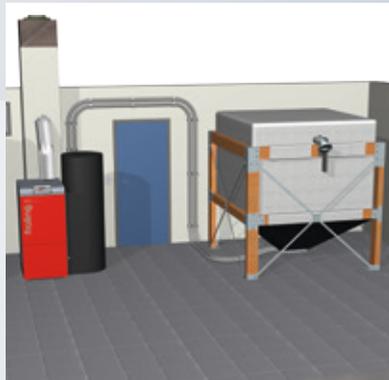
PELLET DISCHARGE SYSTEMS

Froling offers flexible store discharge systems for every requirement.

Universal suction system



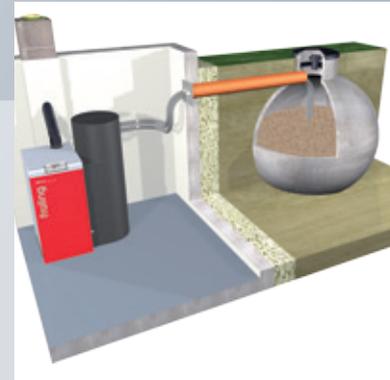
Bag silo



Suction screw



Underground tank



Pellet mole





T4 WOOD CHIP BOILER 24 - 150 kW

User-friendly, compact, economical and safe: The Froling T4 covers all of your needs. This boiler is suitable for burning both wood chips and pellets thanks to its fully-automatic smart operating system. Optimum energy consumption is guaranteed by the detailed system engineering, which allows the Froling T4 to offer reliable, high-quality heating.

Special features:

- Easy to assemble and compact design
- Optimum combustion control
- Lambdatronic H 3200 control with touch display
- Smart grate technology
- High-temperature firebrick-lined combustion chamber
- Stoker unit with patented dual chamber rotary valve
- T4 24 - 30 kW available with optional condensing boiler technology



CASCADE CONTROL (OPTIONAL)

Heating requirements can vary considerably, especially in larger buildings. Froling 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, T4, TX or Turbomat) to reach a total output of up to 2,000 kW.

CONDENSING BOILER TECHNOLOGY (OPTIONAL)

The P4 Pellet, S4 Turbo and T4 boilers are also available with innovative condensing boiler technology. The flue gas contains energy which escapes unused up the chimney with conventional solutions, but a heat exchanger positioned on the back of the boiler makes use of it for the heating system. This increases the boiler efficiency to over 104% (Hu).

Advantages:

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



Advantages:

- Innovative technology
- Efficiency ratio over 104% (Hu)
- Can be easily added at a later date
- Available for:
P4 Pellet 15 - 25 kW, S4 Turbo 15-28 kW, T4 24-30 kW





TX WOOD CHIP BOILER

150 - 250 kW

Convenient, sturdy, economical and reliable: Froling's new TX is guaranteed to cover all requirements. Thanks to its smart full automation system, this boiler can be used in particular with wood chips with up to 30% water content and pellets.

Special features:

- Ventilated step grate
- Fully-automatic ash removal
- Vertical 3-pass heat exchanger with automatic cleaning
- High-temperature firebrick-lined combustion chamber
- Lambdatronic H 3200 control
- Pre-wired installation
- Available with optional FGR



TURBOMAT WOOD CHIP BOILER

150 - 500 kW

The conveyor 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 comfort.

Special features:

- 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.
- Screw P45A (prev. G 50) / hydraulic P63 (prev. G 100) loading
- Flue gas recirculation system to optimise combustion
- Fully-automatic ash removal



LAMBDMAT WOOD CHIP BOILER

500 - 1,000 kW

One of the most important features of the Lambdamat line is its unique compact outer dimensions. The two different types of boiler system cover the following application requirements: an "Industrial" model for dry fuels and a "Communal" model for fuels with up to 50% water content.

Special features:

- Step grate (Industrial) or moving grate (Communal)
- Multi-layer high-temperature firebrick-lined combustion chamber
- 3-pass heat exchanger with automatic cleaning
- Screw P45A (prev. G 50) / hydraulic P63 (prev. G 100) loading
- Flue gas recirculation system to optimise combustion
- Fully-automatic ash removal



ENERGY BOX

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

Special features:

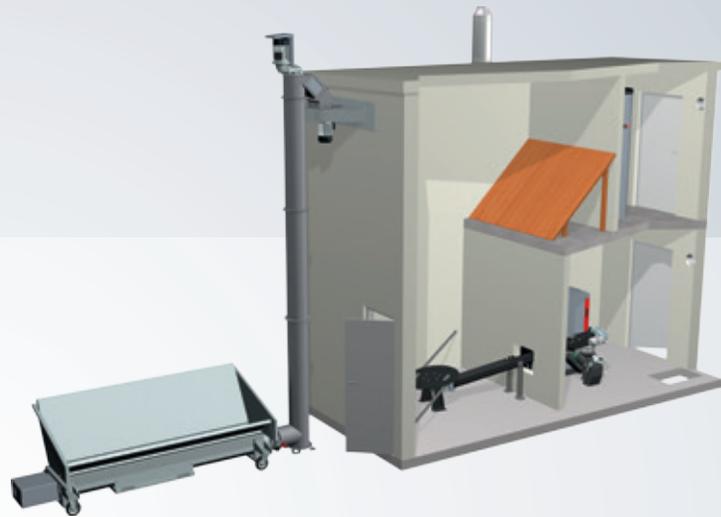
- Relocation of the boiler room and store
- Perfectly matched components
- Ready to install
- Clearly defined installation steps
- Flexible complete solutions
- Intelligent system design

Available with:

- P4 15 -105 kW
(up to 400 kW as cascade)
- T4 24-150 kW
- TX 150-250 kW
- Turbomat 150-500 kW
- Lambdamat 150-1,000 kW

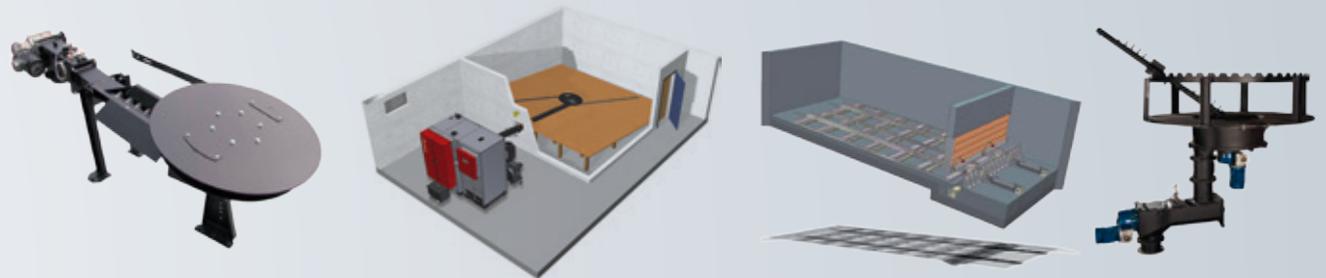
FLEXIBLE DISCHARGE AND FEEDER SYSTEMS

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



- spring blade agitator
- articulated arm discharge
- inclined screw discharge unit
- horizontal screw discharge unit

- pusher discharge unit
- raking chain conveyor
- conveyor belts
- horizontal and vertical bunker filling systems



LAYERED TANK/ SOLAR LAYERED TANK

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



Special features:

- Can be easily combined with various heat generators
- High energy yield due to precise temperature layering in the tank
- Optimum thermal insulation due to CFC-free all-round insulation
- 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

Froling'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.

Special features:

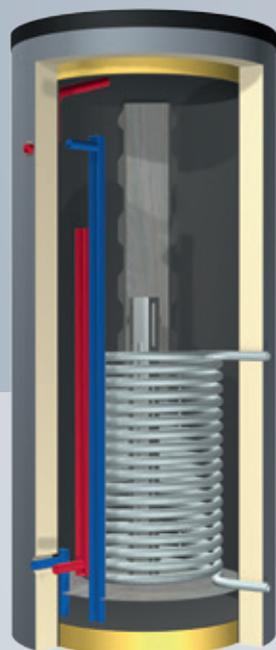
- Precise temperature layering for high energy yield and low running costs
- Hygienic hot water preparation with the flow principle
- Optimal thermal insulation due to all-round CFC-free insulation
- Optimal temperature layering and high performance
- Joined tank expansion in confined spaces
- Efficient solar integration through the use of two high performance solar elements (with H3 hygienic solar layered tank)

MODULAR LAYERED TANK FW AND FRESH WATER MODULE FWM

Froling's FW layered tank and FWM fresh water module 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 Froling 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.

Special features:

- 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
- All internal piping pre-installed
- Can be combined with the full range of Froling tanks



TRIED AND TESTED



GERMANY - Sinntal-Oberzell

Boiler: S4 Turbo 34 kW

Fuel: firewood



AUSTRIA - Ferlach

Boiler: SP Dual 22 kW

Discharge: ECO universal suction system

Fuel: firewood and pellets



GERMANY - Neuberger butcher's shop

Boiler: P4 Pellet 38 kW

Discharge: suction screw system

Fuel: pellets



AUSTRIA - Wolkerstorf

Boiler: T4 30 kW

Discharge: spring blade agitator

Fuel: wood chips



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

froeling



Fröling Heizkessel- und Behälterbau Ges.m.b.H.
Industriestraße 12 | A-4710 Grieskirchen
www.froeling.com | info@froeling.com
Tel. AT: +43 (0)7248 606-0 | Tel. DE: +49 (0)89 927 926-0

P0640514

