

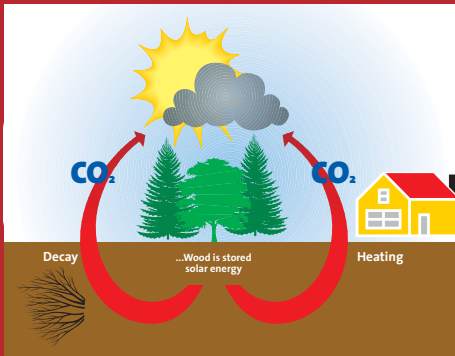


The best idea
since the discovery
of fire:

The Turbomatic by Fröling.
The most innovative form of wood-heating
technology. Burns: wood chips, shavings,
pellets, and even firewood.



Heating with wood - doing your part in the natural cycle:



Wood is essentially stored solar energy. A sustainable fuel source that is right at our doorstep. Wood can be used right where it falls and poses few risks during transport. When it burns, wood produces virtually no sulphur emissions and it is CO₂ neutral. In contrast to fossil fuels, the CO₂ produced by burning wood is part of the natural carbon cycle. This makes a positive contribution towards combating the greenhouse effect.

The New Tu The future

Fröling:

Fröling, the leading manufacturer of biomass heating systems

For more than 30 years, Fröling has explored the idea of heating with wood. Thanks to a series of ground-breaking innovations, the development of modern wood-heating technology has moved decisively forward.

1982: Introduction of the first wood-waste heating method with high-temperature combustion.

1988: Fröling introduces the FHG Turbo wood-distilling boiler, setting a new standard in the economic and efficient use of wood for heating.

1991: Fröling wins an award for innovative ideas when it introduces the Lambdamatic, the first wood-waste burner with Lambda technology.

1993: National prize from the Federal Ministry for Economic Affairs.

1996: Prize for innovative ideas at the energy conservation fair in Wels

1999: Awarded the Austrian state seal by Federal Minister Fahrleitner.



2001: Prize for innovation from the German Federal Ministry for the Environment and of the Region of Upper Austria.

What other firms call the best, we consider to be the norm.

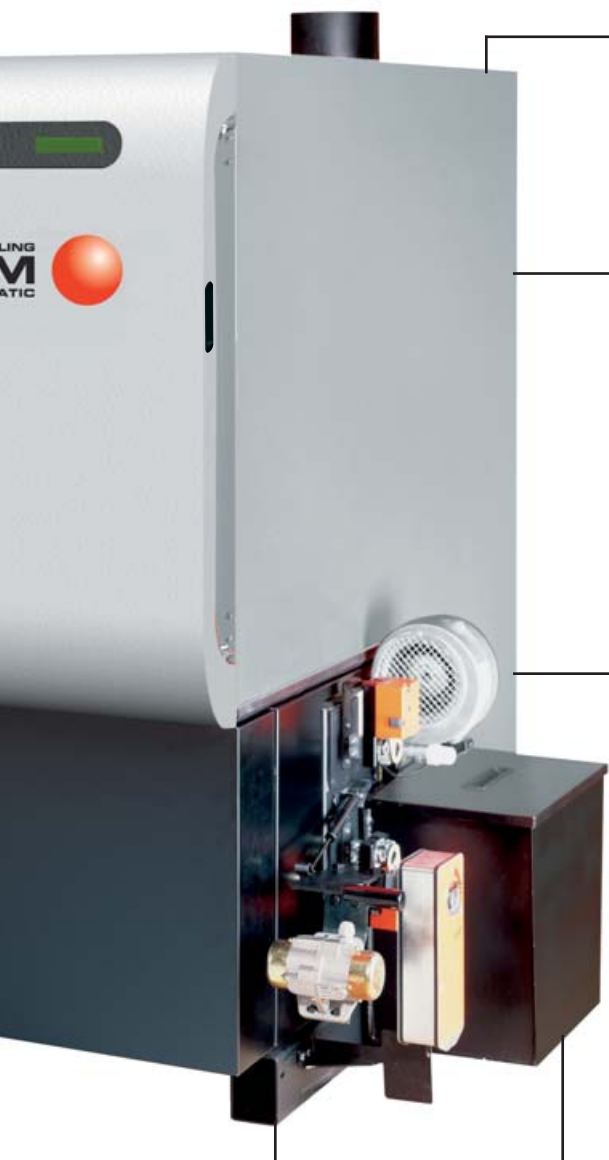
As THE authority in wood fuels, Fröling ranks among the leading firms world-wide. What will take years to develop elsewhere, is already considered the standard in high-tech here: Our one-of-a-kind innovations have decisively accelerated the development of modern wood-heating technology.

Fully Automatic

From the feeder, the ignition, the boiler cleaner, the controlled chimney draught, right down to the ash disposal. Everything on the Turbomatic operates completely automatically, controlled by power-saving drives and electronics. This means economical and convenient heating with a clear conscience about the environment.



Turbomatic: *is now!*



The Universal Feeder ("Omnivore")

Whether its wood-waste, shavings, or pellets, the new Turbomatic automatically adjusts to accommodate each type of fuel. Even manual firewood operation is possible without having to undergo a major conversion.

Robust

Despite all the high-tech features, the Turbomatic is designed to be very easy to set up and maintenance-friendly. This makes set-up quick and easy. All of the components can be serviced with very little physical effort. Installation and Service. Additionally, all the components of the wood-waste conveyor are generous in their dimensions, allowing even the biggest pieces to be burned without problem.

Safe

Our 30 years of experience in wood-heating has culminated in a proven record in safety engineering. The solid construction and high-tech features generally prevent break-downs from ever occurring. The induced draught fan not only ensures that the Turbomatic draws air from the start route, but also pushes the combustion gases in the right direction towards the chimney. This feature, combined with the continuous low-pressure monitoring system in the combustion chamber, the proven burn-back flap, and the temperature monitoring system in the storage unit, guarantees the highest possible degree of operational safety.

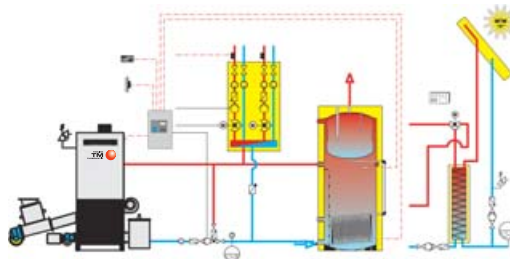


Tried and Tested

As the leader in manufacturing biomass heating systems, Fröling offers a wide-range of products for modern wood-heating. It's only natural that the experience and innovations, already proven in other systems, have gone into the design of the new Turbomatic. With the purchase of a Turbomatic, you are not only investing in a thoroughly modern product, but also a product which has withstood the test of time and which will provide safe operation for decades to come.

Expandable

The Turbomatic is extremely versatile, whether you are interested in radiator-heating, underfloor or wall heating, domestic water heaters and storage tanks, separate heating circuits, or combining the Turbomatic with other systems. The modular control system design can also be expanded at a later date. Each component works in perfect harmony with the others and has been optimized to ensure maximum convenience and economical energy consumption.





Fröling Engineering, an Excellent Idea

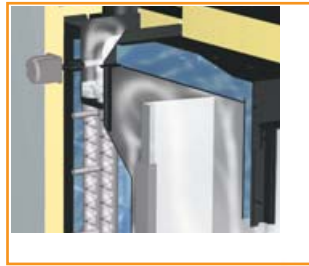
Modern wood-heating technology stands out from other types of heating, not only because it is a highly-efficient means of burning low-emission fuels, but also because it is convenient and clean.

The Turbomatic series of boilers represents a further development of the many excellent Lambdamatic waste-wood heating systems by Fröling. This new system design far surpasses the existing state of the technology with its compelling innovations.



The New Turbo Ingenious Features – Well-

Perfect: The Heat- exchanger



The multipoint heat-exchanger, with its large heating surface and built-in turbulators, provides an unequalled heat transfer.

In addition, the components have been arranged vertically to facilitate thorough self-cleaning. If you so desire, the turbulators can be set to be put into motion at regular intervals by an electric motor for automatic cleaning of the heat-exchanger.



The Optimum: The Lambdatronic Control System

With its one-of-a-kind modular Lambdatronic control design, Fröling is far ahead of its time.

In addition to its perfect combustion control with the ability to automatically accommodate different types of fuels, it is also capable of providing problem-free weather-activated control of the various heating circuits and precise control over the various storage systems.



All of the data, settings, and parameters can be remotely accessed and modified via a PC with a modem. The computer monitors the system and provides the information directly into your home or office via the digital system or a PC. If installed with a modem and upon your request, the system can be optimized and serviced directly by Fröling. This saves time and money.

matic: *planned In-door Living!*

Universal: The Combustion Chamber

The novel high-temperature turbulence combustion chamber with its turbo-jet and automatic grate guarantees optimum conditions for each type of fuel. The clear separation of the combustion process from the heat-exchange process, with their resulting high temperatures, ensures that fuels with a water content of up to 40% can be burned without any problem. Whether it is waste-wood, shavings, or pellets, dry or damp, the Turbomatic automatically adjusts to accommodate each type of fuel. Even manual emergency operation using firewood is possible with a minimum of toil (installing the grate).



Ingenious: The Automatic Grate

The Turbomatic is equipped with a novel grate concept. A combination shaking and tipping grate ensures that the ash, and only the ash, automatically goes to the ashcan. In the ashcan, an ash removal screw conveys the ash to the external ash container.

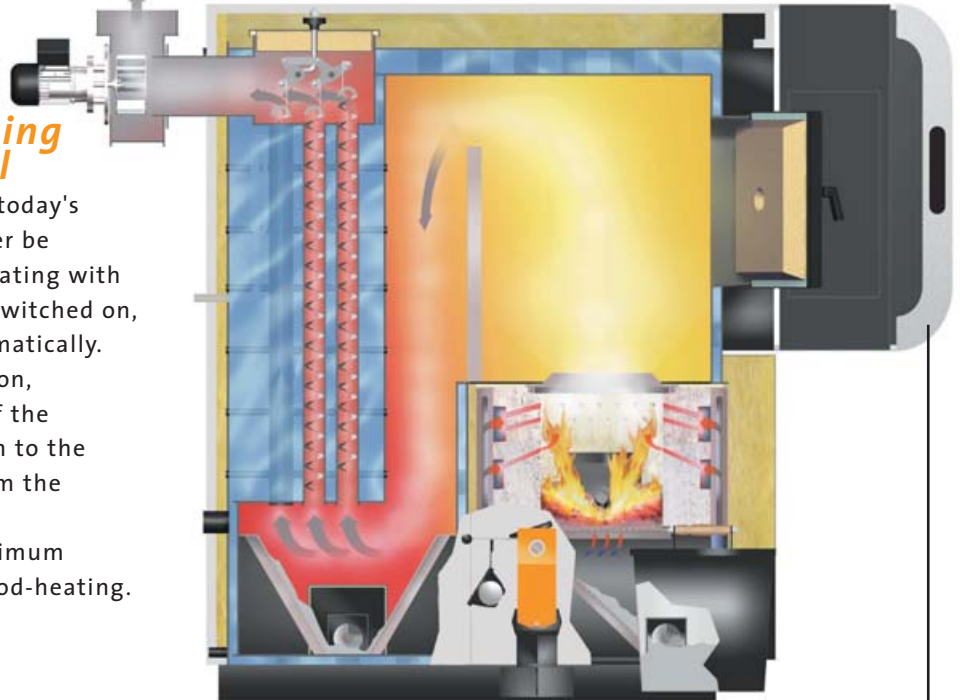


Convenient: Automatic Cleaning and Ash Removal

Thanks to the Turbomatic, today's wood-heating can no longer be compared to traditional heating with wood. Once the system is switched on, everything runs fully automatically. From the moment of ignition, throughout the cleaning of the heat-exchanger, right down to the automatic ash removal from the combustion chamber. The Turbomatic offers maximum comfort for convenient wood-heating.



Sectional drawing TM 85 - 110



Proven reliability: High-tech solutions are now available for the compact class

The Turbomatic represents the continued development of designs which have proven their reliability time and again over the years. Our 30 years of experience in wood-heating systems has made it possible to make the technology used in large-scale systems usable in single and multi-family home systems. The optimum features, which work so well in larger systems, have been perfected by Fröling for smaller systems..

A flexible all-in-one

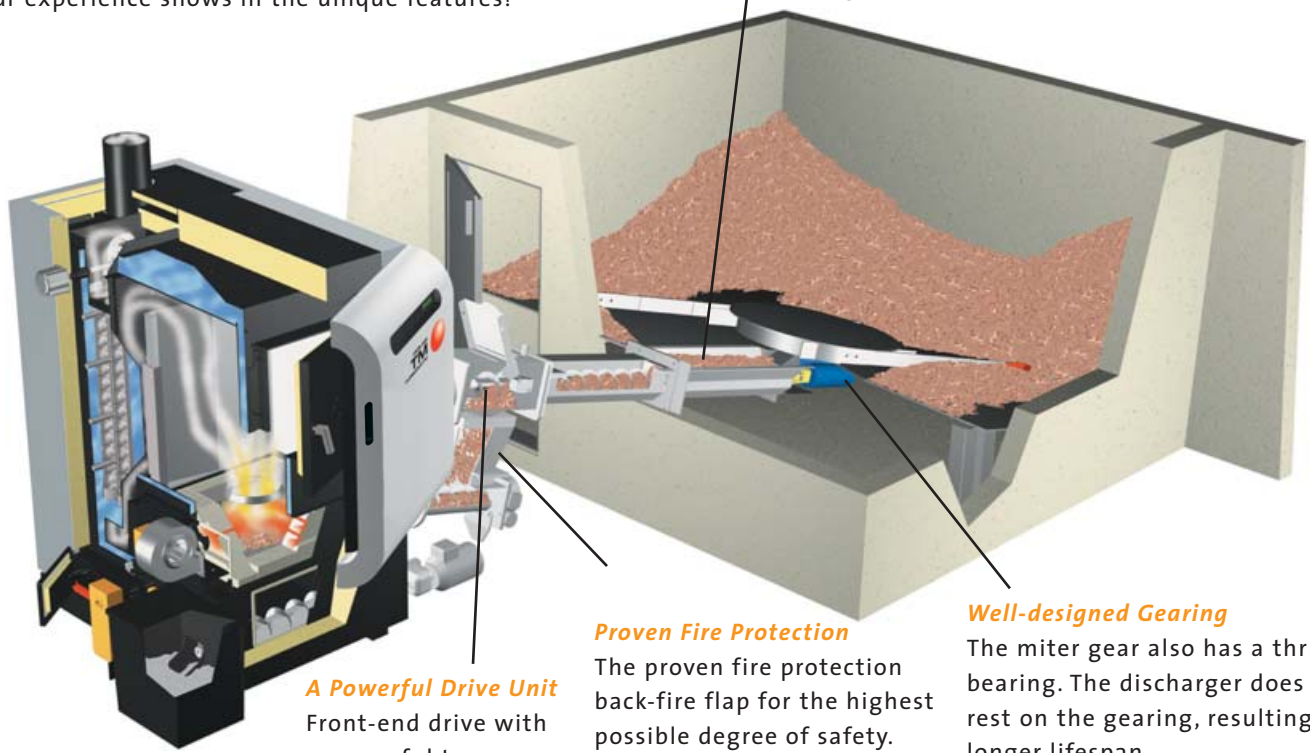
Simple pellet feed straight to your boiler:

A reliable means of transporting the fuel is an important prerequisite for convenient operation. Fröling offers reliable designs for every situation. Our systems can be adapted to any given conditions without problems. In terms of construction, installing a waste-wood and shavings heating system does not require a large investment. Of course fuel feeding is accomplished using the lowest possible energy consumption.



The Fröling bottom stirring apparatus:

All our experience shows in the unique features!



Special Chute Design

The chute design, with its wide-open top, prevents jamming and allows the feeding of larger pieces of fuel.

A Powerful Drive Unit

Front-end drive with a powerful torque support.

Proven Fire Protection

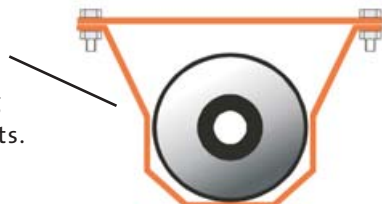
The proven fire protection back-fire flap for the highest possible degree of safety.

Well-designed Gearing

The miter gear also has a thrust bearing. The discharger does not rest on the gearing, resulting in a longer lifespan.

The Optimized Feed Channel

The trapezoidal shape of the channel prevents the discharger from becoming displaced and clogging. Easy to operate and energy-saving even when feeding in the maximum amount of pellets.



Ingenious Cutting Edge

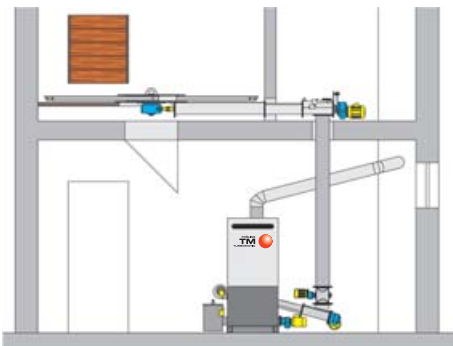
Larger pieces of fuel are broken up on the cutting edge.



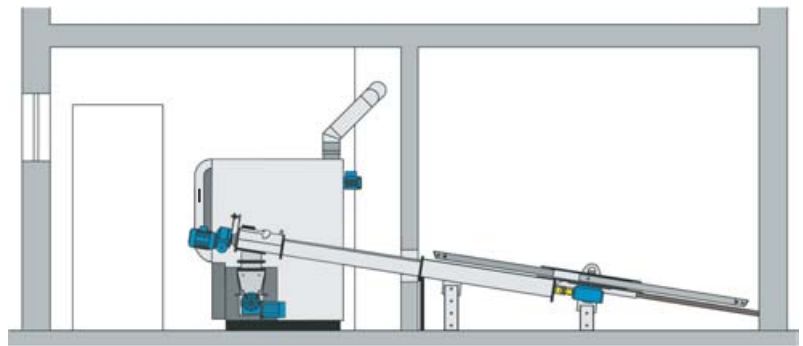
e system solution

Some examples from a multitude of set-up options:

Feeding from a store positioned above the feeder

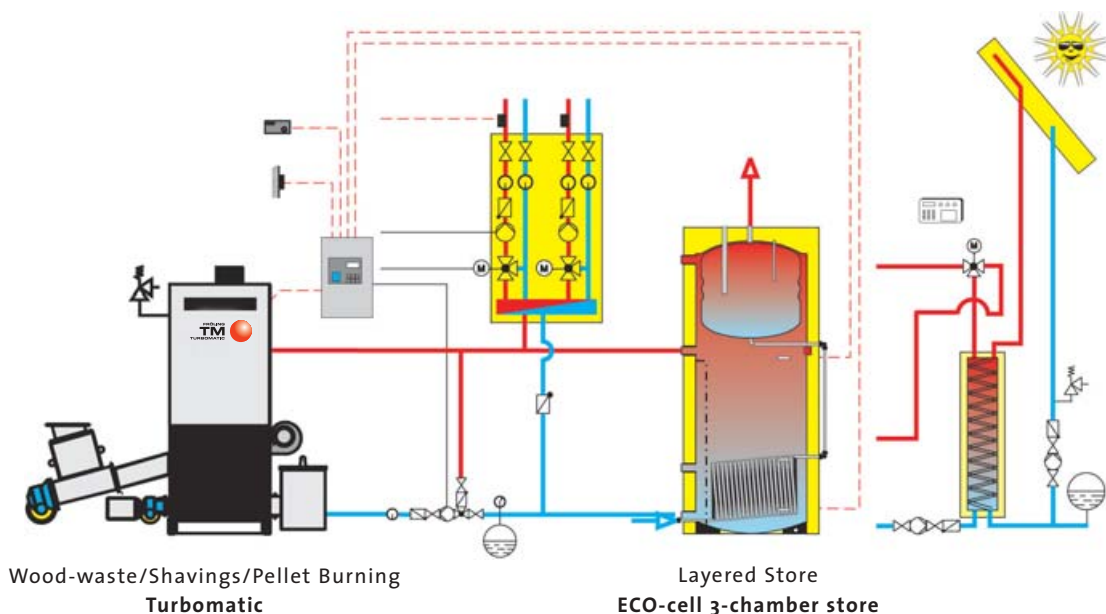


Extracting fuel from an adjacent store



Optimized Energy Management by Fröling:

In and of itself, the Turbomatic by Fröling is a perfect heating system and guarantees a clean and cost-effective supply of heat for home heating and domestic water heating. It is no problem to use this heating system in combination with a solar panel system or some other similar system. Fröling offers a wide-range of innovative storage and heat-exchanger designs. Together with the modular, expandable Lambdatronic control technology, they produce the optimum system solution.



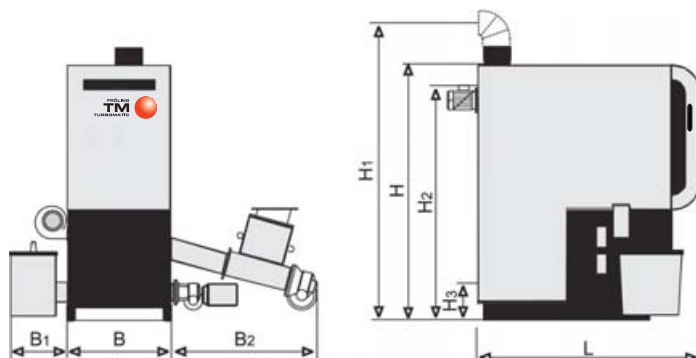


Promoting Wood-burning Boilers:

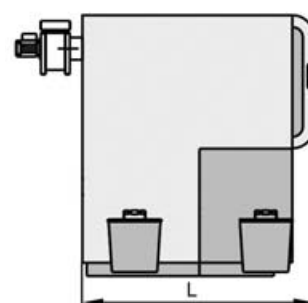
Due to the positive aspects of waste-wood heating, such as sparing the environment and adding value to a given region, there are interesting programs in many countries promoting its use. Under www.froeling.at you will find current information on this and other features. Of course, your local Fröling installer will gladly help you with a wide-range of questions.

Enjoy the future of wood-heating today!

Turbomatic 28 - 55



Turbomatic 85 - 110



Technical specifications, dimensions:

Turbomatic	28	35	48	55	85	100	110
Rated power kW	28	35	48	55	85	100	110
Boiler contents (water) litres	114	114	185	185	300	300	300
Length of boiler L	1230	1230	1320	1320	1570	1570	1570
Width of boiler B	580	580	680	680	820	820	820
Width of ash removal unit B1	310	310	310	310	330	330	330
Width of stoker B2	820	820	820	820	950	950	950
Height of boiler H	1420	1420	1520	1520	1750	1750	1750
Min. chimney connection height H1	1650	1650	1750	1750	1890	1890	1890
Height of outfeed H2	1275	1275	1375	1375	1600	1600	1600
Height of return feed H3	140	140	140	140	450	450	450
Boiler weight kg	420	425	500	505	1000	1000	1000
Smoke flue dm	150	150	150	150	200	200	200

Modifications to the dimensions prohibited

FRÖLING

WARMTH FROM WOOD

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