



Heating with Wood Pellets

Product catalogue 2014 www.oekofen.co.uk



Europe's specialist in pellet heating

ÖkoFEN represents modern renewable energy, using environmentally friendly wood pellets.

Founded in 1989 by the pioneer Herbert Ortner, the company has specialised solely in pellet heating systems. The result: perfected technology that is always one step ahead.

The company's pioneering spirit is further reflected in its ingenious concepts for pellet storage, the convenience of its touch-screen displays and in smart solutions for buildings with low energy requirements.

An extensive network of expert advisors and service technicians guarantees ÖkoFEN customers the best possible support.

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ÖkoFEN: THE BENCHMARK IN HEATING WITH PELLETS

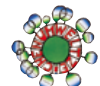
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TECHNOLOGY IN DETAIL

Technical data for all ÖkoFEN products

from page 64 onwards



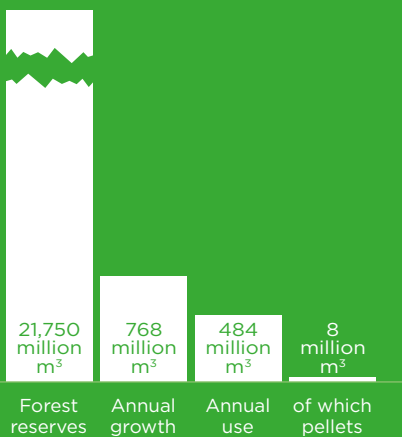
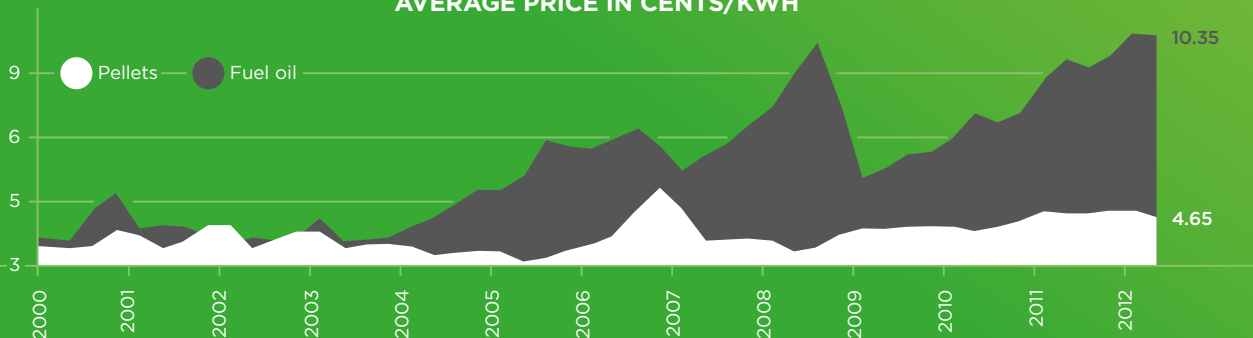
The future belongs to heating with pellets

Wood pellets have all the properties that you would expect from a modern fuel. They are economical, convenient, environmentally friendly and crisis proof.

The regionally produced wood pellets made from sawdust provide independence from expensive fossil fuels and protect the environment as their combustion is CO₂-neutral*.

A comparison of the price changes in gas, oil and pellets over the last 12 years makes it very clear: the pellet price is reliably low and stable.

AVERAGE PRICE IN CENTS/KWH



FUTURE-PROOF

Wood is a renewable raw material. Every year the European wood reserves grow by around 770 million m³, of which only two-thirds are currently felled. This makes pellet supply stable and assured for the long term, even in the face of increasing demand.

Diagram shows wood growth & usage in million m³ in Europe
Source: eurostat statistical book, 2011 edition

COMFORTABLE

Pellets are supplied by tanker; blown cleanly and odour-free into the storage room. The fully automated pellet delivery system takes the pellets from storage room to the boiler, where they are automatically ignited and combusted. Our tip: Pellets with the ENplus seal guarantee the best quality.

INDEPENDENT

Oil and gas reserves are limited and are often located in politically risk-prone countries. In contrast, pellets are manufactured regionally from domestic timber. This creates independence, safeguards jobs on site and generates added value in the country concerned.

Diagram shows pellet production locations in Europe
Source: proPellets Austria · 05:2012

* During the combustion of wood pellets, carbon dioxide (CO₂) is only released in the same amount that the tree has absorbed during its growth and would have been released in the forest as part of the natural rotting process.

Source for price trends diagram: IWO, BMWFJ, Genol, ProPellets Austria, Version: Sept. 2012

Why ÖkoFEN?



THE ORIGINAL

In 1997 ÖkoFEN produced the first pellet heating system

The beginning of a success story.

The Pellematic pellet boiler system uses technology that has been tried-and-tested over years, impressing with both total reliability and highest quality workmanship.



THE PELLETT SPECIALIST

ÖkoFEN only makes wood pellet boilers. This means we have a specialist knowledge that supports constant innovation, such as the first pellet boiler tested to independent standards, condensing technology for pellets and a combined solar/pellet system for new buildings.



ADAPTABLE TO DEMAND

Pellematic heating systems are both flexible and adaptable. If you add an extension that requires extra heating, or your insulation is enhanced, a Pellematic boiler can adapt to this with only minor adjustments, ensuring the perfect amount of heat is always available.



EASE OF USE

Years of experience and feedback from customers means that we are constantly developing the ÖkoFEN pellet boiler systems. The unique ash box is a great example of this.

All of the ash produced collects in an easily removable ash box, from which it can be **disposed of in a completely dust-free manner.**



QUALITY FROM AUSTRIA

Austria is renowned for the innovation and high quality of its engineering sector. Thoughtfully designed and skilfully manufactured **products are the result of a national commitment to high standards of education and training and a passion for research and development.**

This gives technology from Austria a desirability all of its own and ÖkoFEN products are no exception.



STATE-OF-THE-ART TECHNOLOGY

Pellet boiler systems from ÖkoFEN are always at the cutting edge of technology. Our engineers are focused on continuous technological advancement which has led to breakthroughs in optimised combustion, efficient condensing technology and user-friendly systems like the Pelletronic Touch heating controller.

ÖkoFEN's comprehensive product range

The perfect heating system for every house

PELLET STORAGE SOLUTIONS



Flexilo Compact fabric tank



Flexilo fabric tank

PELLET BOILERS



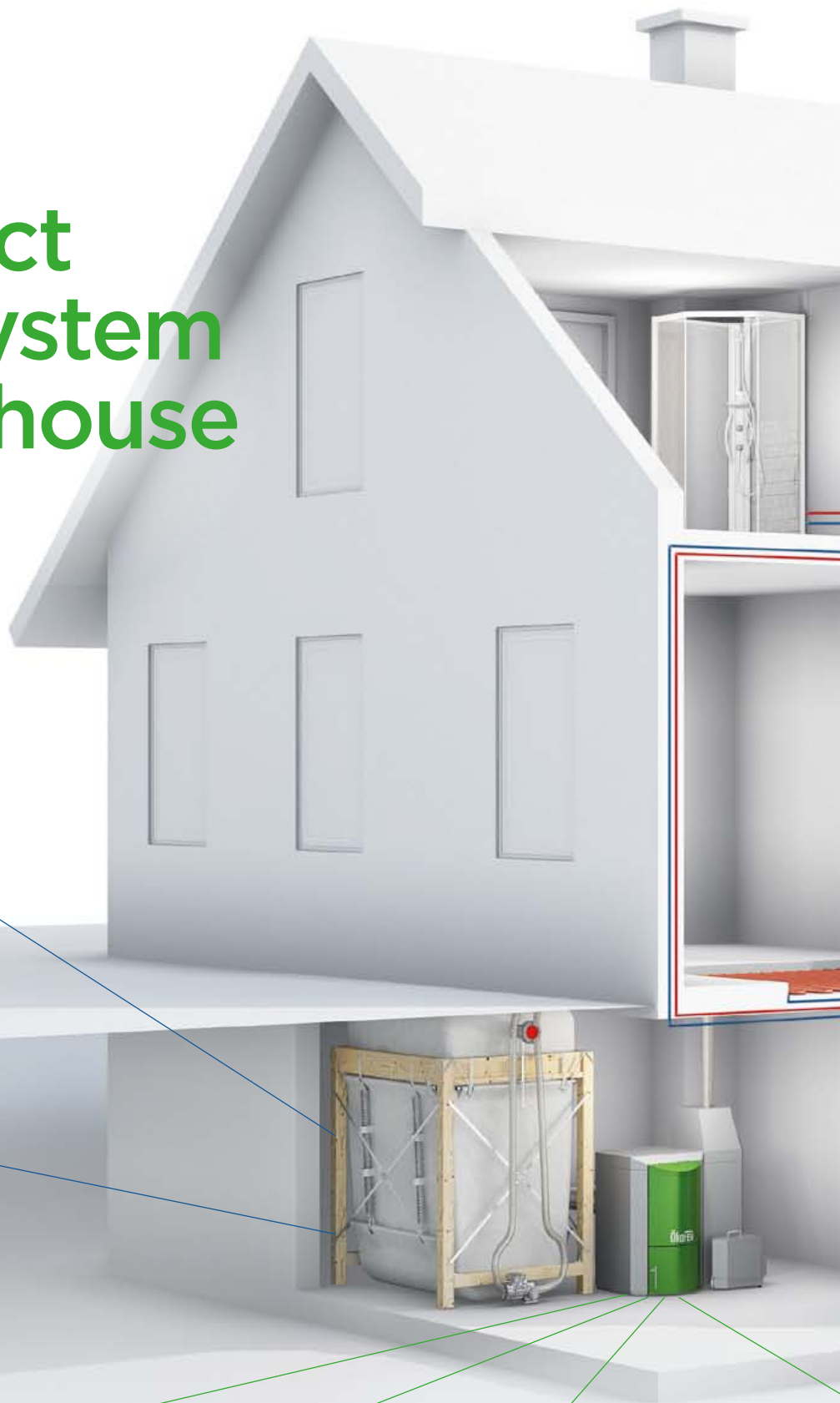
Pellematic®



Pellematic® Plus

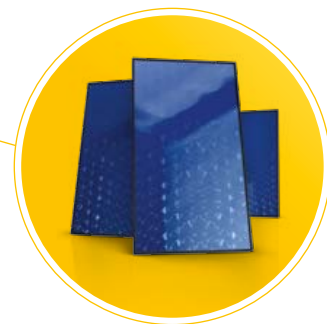


Pellematic® Maxi





SOLAR COLLECTORS



Pellesol

HEATING SYSTEM CONTROLLER



Pelletronic Touch

PRACTICAL COMPLETE SOLUTION



Pellematic Smart

STRATIFICATION CYLINDERS



Pellaqua

An ÖkoFEN pellet heating system provides you with the complete solution for heating and hot water in your home.

All of the system components are designed to work in harmony for the maximum in comfort and warmth and the greatest energy efficiency.





Pellematic heating technology

Pellets provide a very special kind of warmth . Heating your home with wood - a natural and renewable raw material - makes sense in so many ways.

ÖkoFEN has a range of flexible heating systems which are convenient to use, simple to operate and suitable for a wide range of homes.

The powerful pellet boiler for
renovation projects and new buildings

Pellematic®





Performance Range

- 10 kW
- 12 kW
- 15 kW
- 20 kW
- 25 kW
- 32 kW

FIRST-RATE
EFFICIENCY OF

94.7%*

CONTINUOUSLY
REFINED!



Modern heating technology saves energy

- ✓ Almost 90% of household energy costs arise from heating and domestic hot water.
- ✓ With the ÖkoFEN Pellematic, your heating is highly efficient and economical.

The efficiency of an ÖkoFEN wood pellet boiler ensures you can make savings where it matters most.

The ÖkoFEN Pellematic is where it all began. When it was launched in 1997 it was the first type-approved, fully automatic pellet boiler on the market.

It was a pioneering invention at the time and has continued to be enhanced and refined to the finely tuned performer it is today, making it the perfect choice for anyone who is modernising a property or replacing their existing boiler.

The performance of the Pellematic is tailored precisely to your needs and if those needs change, through alteration or improvement to your home, it can easily adapt with you. You continue to enjoy low pellet consumption and perfect performance from a fully optimised boiler.

* TÜV test 2009, PE 15

Pellematic –
The benefits at a glance:

A branded product that has proven itself 50,000 times. Convenient, clean, powerful and reliable.



PIONEERING PRINCIPLE

The Pellematic boiler created by ÖkoFEN founder, Herbert Ortner, set the standard for hugely efficient combustion from wood pellets. From the very beginning it was so advanced and reliable that other manufacturers adopted the technical principles applied by Herbert for their own products.

Worldwide a large number of pellet heating systems operate based on this principle.

Since 1997, the original (product from) ÖkoFEN has been tried and tested more than 50,000 times.

FLEXIBLE BOILER OUTPUT

The Pellematic boiler can grow with your circumstances. If you extend or reconfigure your home, or enhance your insulation, the boiler can be adjusted to your new requirements in just a few simple steps, ensuring the power you achieve is precisely the power you need. No need for a new boiler!

This leads to increased efficiency; protects the environment and most importantly saves customers money.

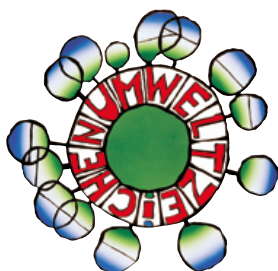
CONVENIENT & POWERFUL

The Pellematic boiler is simple to use. The need to empty the ash box is kept to a minimum through the highly efficient use of the fuel, but when it does have to be done it is a clean, simple and dust-free activity. The boiler's controller will even tell you when the ash box needs to be emptied.

Everything else about the Pellematic boiler is fully automatic, with ignition, output adjustment and daily cleaning carried out without the need for you to intervene thus maintaining the boiler's performance at maximum efficiency.



The compact ash box only needs to be emptied approx. one to three times a year - virtually dust-free.



CLEAN HEATING

ÖkoFEN is regarded across the industry as the inventor of the modern wood pellet boiler and the reason that pellet fuel is seen as a success story.

That pioneer status extends to ÖkoFEN's commitment to environmental protection. Emissions from ÖkoFEN's wood pellet boilers are way below legal limits and built-in sensor technology ensures they remain that way - permanently.



EXPANDABLE WITH SOLAR

We believe you shouldn't have to choose between wood pellet heating or solar power, or be forced to install two separate systems.

An ÖkoFEN wood pellet boiler can be integrated with the **ÖkoFEN Pellesol solar collector and a Pellaqua accumulator tank (see pages 50-57)**, allowing you to enjoy the benefits of renewable energy from multiple sources and the same reliable and high quality technology from a trusted name.



SAFE & RELIABLE

ÖkoFEN products are built to last and offer the ultimate in reliability. That's why we use only the highest quality materials and most accurate control systems for our boilers.

This ensures you can depend on your ÖkoFEN boiler for many years of reliable operation. In the exceptional event of a fault occurring, we will ensure a specialist pellet boiler service technician will have you up-and-running in no time.

The technical refinements
in detail

Pellematic®

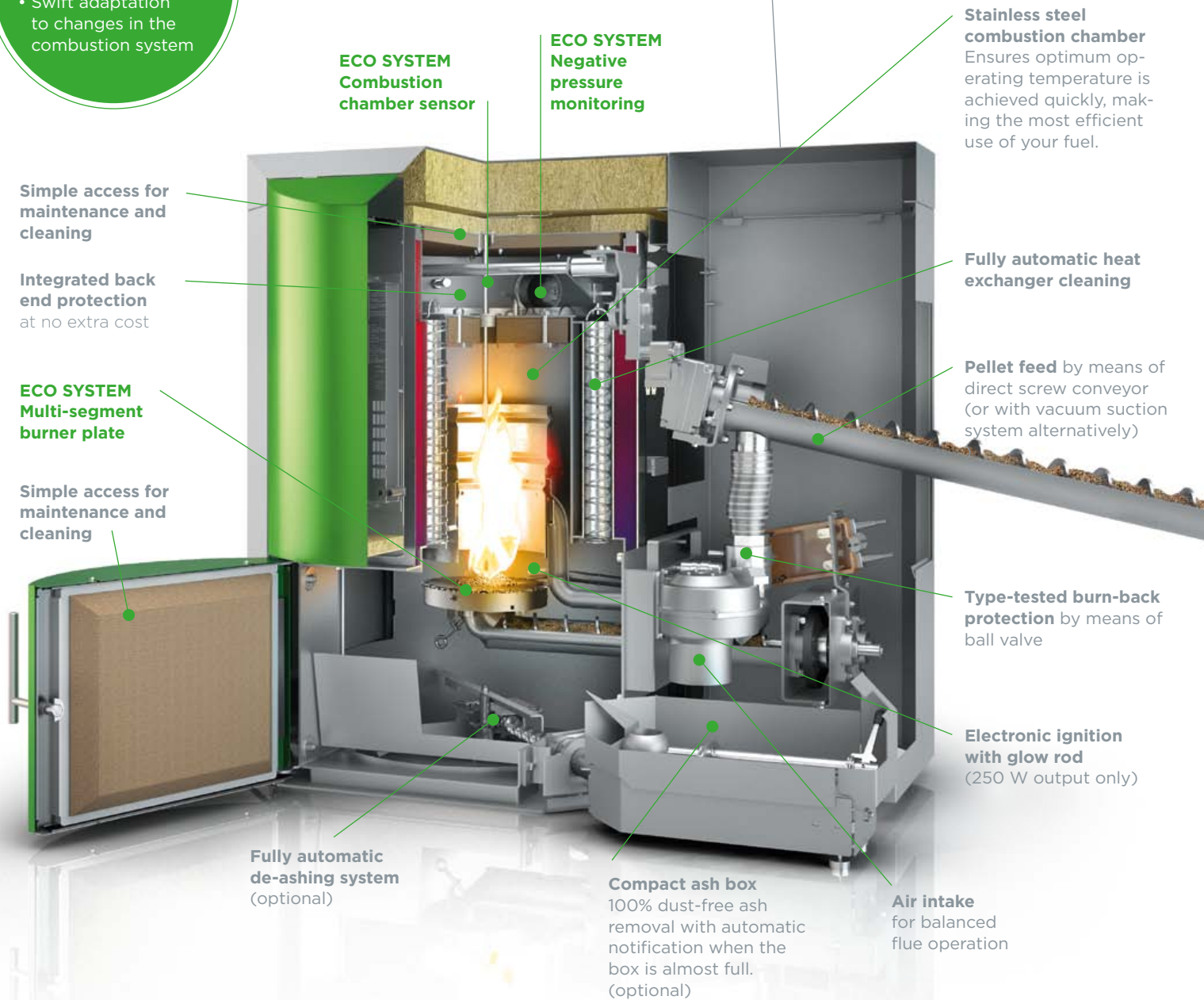
**3-PART
ECO SYSTEM:**

- High efficiency
- Lowest emissions
- Swift adaptation to changes in the combustion system



Manual filling

The Pellematic can be filled either automatically or manually - you choose, based on your needs.



Installation examples



Flexi tank with vacuum suction system



Storage room with vacuum suction system



Flexi tank with delivery system



Storage room with delivery system

FLEXI TANK

A convenient and affordable storage solution, perfect for use in limited space, rooms with low ceilings or damp cellars.

[01] Flexi tank and heating system are up to 20 m apart.

[02] Flexi tank and heating system are in one room.

Detailed information about the flexi tanks can be found from page 40 onwards.

STORAGE ROOM

The traditional way to store pellets. A storage room makes full use of the space available and every last pellet is delivered to the boiler for burning.

[03] Pellet store and heating system are up to 20 m apart.

[04] Pellet storage room and heating system are side-by-side.

Further details concerning storage room solutions can be found from page 42 onwards.

Extra efficiency
and fuel savings

Pellematic® Plus





Performance Range

- 10 kW
- 12 kW
- 15 kW
- 20 kW
- 25 kW
- 32 kW



EFFICIENT
CONDENSING
TECHNOLOGY

102.8%*

EFFICIENCY THANKS
TO WASTE HEAT
UTILISATION



**Condensing technology:
How does it work?**

Modern condensing boilers **make use of the heat contained in the flue gas**. This gas is cooled to the point where the water vapour it holds condenses (returns to being liquid).

The left over heat is then fed back into the heating system, **increasing the efficiency of the boiler** and reducing fuel use.

A Pellematic Plus pays immediate dividends in your home.

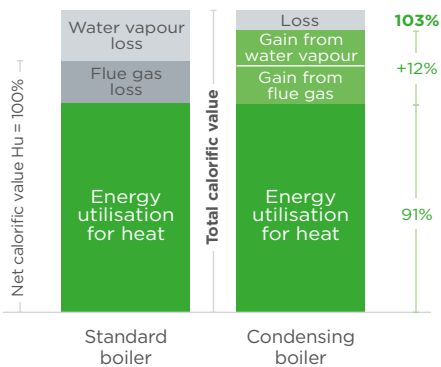
Innovative condensing technology in the Pellematic Plus makes it an exceedingly efficient boiler which can boost fuel savings by up to 12 per cent over non-condensing versions. A boost for your finances and the environment alike.

The Pellematic Plus takes the concept of an energy-saving heating system to its extreme, combining all of the benefits of the Pellematic with the addition of a carbon heat exchanger allowing the boiler to turn what would otherwise be wasted heat into usable energy.

* In accordance with standard EN 303-5, the net calorific value of a fuel (energy content without energy held in the water) is used for calculating the efficiency. In calculations for condensing boilers, which can utilise the energy held in the water, this leads to efficiency levels of over 100%.

**Pellematic Plus –
The benefits at a glance:**

Waste heat used for heating. A heart made of carbon.



ENERGY GAIN

Clever condensing technology in the Pellematic Plus achieves impressive energy recovery from otherwise waste gas. The innovative heat exchanger captures the heat contained in the flue gas for an **energy gain of up to 12 per cent**, which translates directly into a reduction in fuel use.

And that's not all:

Once this process is complete, the flue gas is expelled from the chimney at a temperature of only 30°C, instead of 120°C, demonstrating the efficiency of the process.

HIGH-TECH CARBON MATERIAL

Carbon is used widely where heavy-duty material is required. Such as in the aerospace industry or in the heat exchanger of the Pellematic Plus.

Its properties:

High thermal conductivity, low weight, dirt-repellent surface and resistance to corrosion. The latter also improves the self-cleaning function of the boiler, making your pellet boiler almost completely maintenance-free.

PROVEN OVER YEARS

In creating the world's first pellet boiler with condensing technology, ÖkoFEN achieved another world first!

Since its launch in 2004 our heat exchanging technology has been continually refined and enhanced, including the introduction, in 2010, of the carbon heat exchanger which provides unsurpassed efficiency from a pellet boiler.



"The condensing boiler system has been working flawlessly for years and it provides us with additional savings in heating costs."
Jutta Schmidhofer, ÖkoFEN customer since 2004



CLEANEST TECHNOLOGY

Our condensing boiler makes an already environmentally friendly form of heating even cleaner. Particles in the flue gas are absorbed into the condensate as part of the process and are flushed into the sewer system, rather than escaping up the chimney and into the atmosphere.

Consequently, condensing boilers boast the lowest particulate levels in the industry. Emissions are around 70 per cent lower than the limits of the German Blue Angel environmental standard.



RETROFITTABLE

Products from ÖkoFEN are renowned for their reliability, ease of maintenance and longevity.

You can benefit from pioneering technologies such as condensing technology today or postpone your decision to a later date:

The carbon heat exchanger can be retrofitted to every Pellematic boiler.



PREREQUISITES

- 01 -

A low-temperature system with accumulator tank (e.g. the **high quality ÖkoFEN Pellaqua**; see page 54 onwards) is required for optimum operation. The return temperature must be no more than 35°C.

- 02 -

Your chimney must be resistant to moisture and soot, sealed against condensation and suitable for solid fuels (CE or ÜA mark). The minimum diameter for connecting pipes and chimney is 130 mm.

The technical refinements
in detail

Pellematic® Plus

**CONDENSING
TECHNOLOGY
INCLUDING:**

- Flue gas heat exchanger
- Condensate siphon
- Flue gas tube
- Condensing heat exchanger



Manual filling

The Pellematic can be filled either automatically or manually - you choose, based on your needs.

Flue gas tube

Flue gas temperature kept to only 40°C with condensing technology

Flue gas heat exchanger
made of steel

**ECO SYSTEM
Multi-segment
burner plate**

**Condensing
heat exchanger**
made of carbon

**Condensate
siphon**
for discharging
condensate into
the sewer

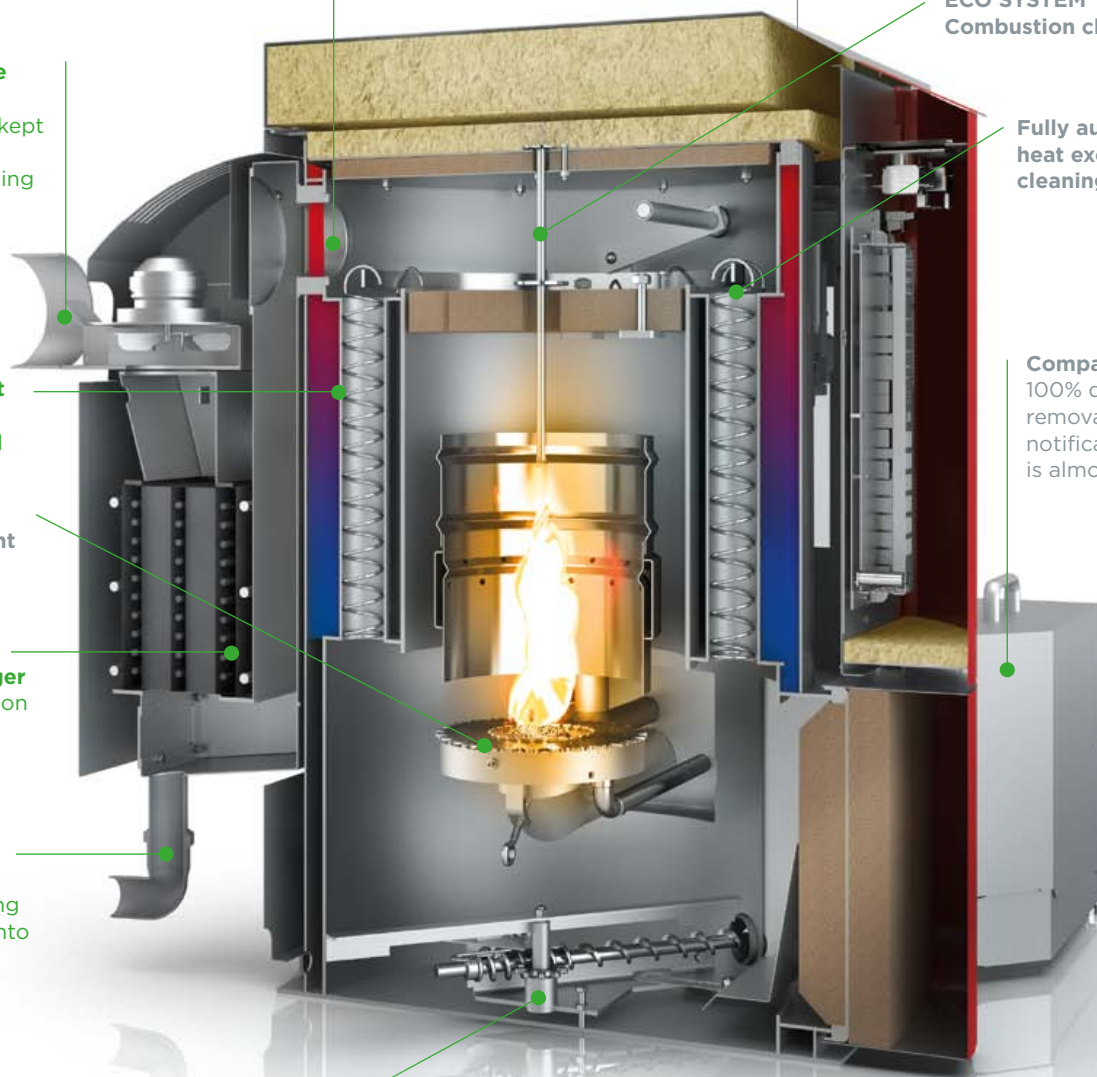
**ECO SYSTEM
Negative pressure
monitoring**

**ECO SYSTEM
Combustion chamber
sensor**

**Fully automatic
heat exchanger
cleaning**

Compact ash box
100% dust-free ash
removal with automatic
notification when the box
is almost full. (optional)

**Fully automatic
de-ashing system**
(optional)



Installation examples



FLEXI TANK

A convenient and affordable storage solution, perfect for use in limited space, rooms with low ceilings or damp cellars.

- [01] Flexi tank and heating system are up to 20 m apart.
- [02] Flexi tank and heating system are in one room.

Detailed information about the flexi tanks can be found from page 40 onwards.

STORAGE ROOM

The traditional way to store pellets. A storage room makes full use of the space available and every last pellet is delivered to the boiler for burning.

- [03] Pellet store and heating system are up to 20 m apart.
- [04] Pellet storage room and heating system are side-by-side.

Further details concerning storage room solutions can be found from page 42 onwards.

The technical
refinements in detail

Pellematic® Smart



Awards



Performance Range

4 kW
6 kW
8 kW
10 kW
12 kW



3 in 1: Boiler, accumulator and installation on only 1.5 m²

- ✓ **600 litre accumulator tank** for hygienic, instantaneous domestic hot water heating.
- ✓ **Pellet burner with condensing technology** for fuel savings of up to 15% per year
- ✓ **Whole installation integrated** plug & heat
- ✚ **Integration of solar technology possible** Retrofitting of a solar heat exchanger also possible at a later date.
- ✚ **Integration of freshwater station possible**

The Pellematic Smart from ÖkoFEN offers a new, extremely economical form of heating.

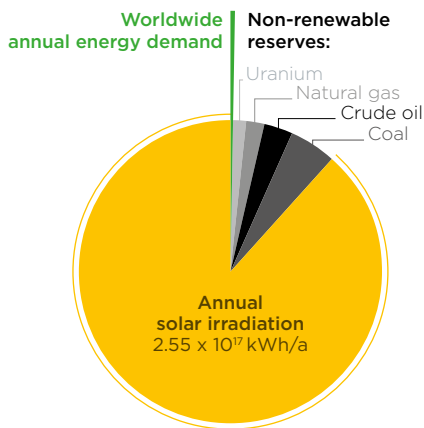
The unique combination of a solar and pellet boiler in one unit primarily makes use of solar power, but with a highly efficient, condensing pellet burner ready to step in when needed. This can mean savings of up to 50% in heating costs when compared to conventional pellet boilers.

The Pellematic Smart is also incredibly compact for a pellet boiler, needing only 1.5m² to install. The small footprint can be capitalised on especially in a new-build environment, where the boiler will integrate easily into a standard utility room.

* In accordance with standard EN 303-5, the net calorific value of a fuel (energy content without energy held in the water) is used for calculating the efficiency. In calculations for condensing boilers, which can utilise the energy held in the water, this leads to efficiency levels of over 100%.

Pellematic Smart –
The benefits at a glance:

Heating costs that melt in the sun. Pellet consumption at a record low.



FREE ENERGY

The sun is an inexhaustible energy source, supplying a thousand times more energy than the world needs – free of charge and crisis proof.

The Pellematic Smart efficiently takes advantage of this, using the sun to provide most of your heat, with the integral pellet burner supplying additional heat only when required.

It's completely automatic – and very smart!

LOW HEATING COSTS

The Pellematic Smart is working to save energy in every way it can, taking energy from the sun and using integral condensing technology, which is supplied as standard.

The condenser captures the heat in the flue gases that would otherwise be expelled up the chimney and lost, allowing the boiler to achieve a heat efficiency of 106% and reducing your pellet consumption.

PRACTICAL COMPLETE SOLUTION

As well as cutting heating costs, the Pellematic Smart saves space and is simple to install.

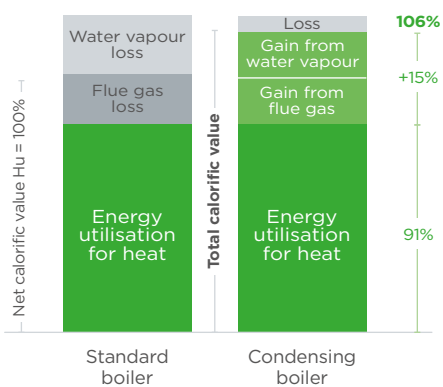
The pellet boiler, accumulator tank, pumps and pipework all fit into one compact unit that couldn't be easier to commission – simply plug in and heat.

Your approved installer can also carry out any service and maintenance work and has access to any components they need.

01



Heating control via iPad, Android, laptop and more: the Pelletronic web app.



WORLD LEADER

A world leader achieving a thermal efficiency of 106%. **Making the Smart Boiler the most efficient boiler in the World.**

This is based on all published reports tested to EN303-5 standards on 01.01.2013.

HIGH POWER, LOW EMISSIONS

Opting for a Pellematic Smart not only means significant savings on heating costs, but you are demonstrating your care for the environment.

The advanced condensing technology allows for a tremendous reduction in emissions, beating even the famously strict **“Blue Angel” environmental standard by 70% on particulate output.**

EXTREMELY CONVENIENT

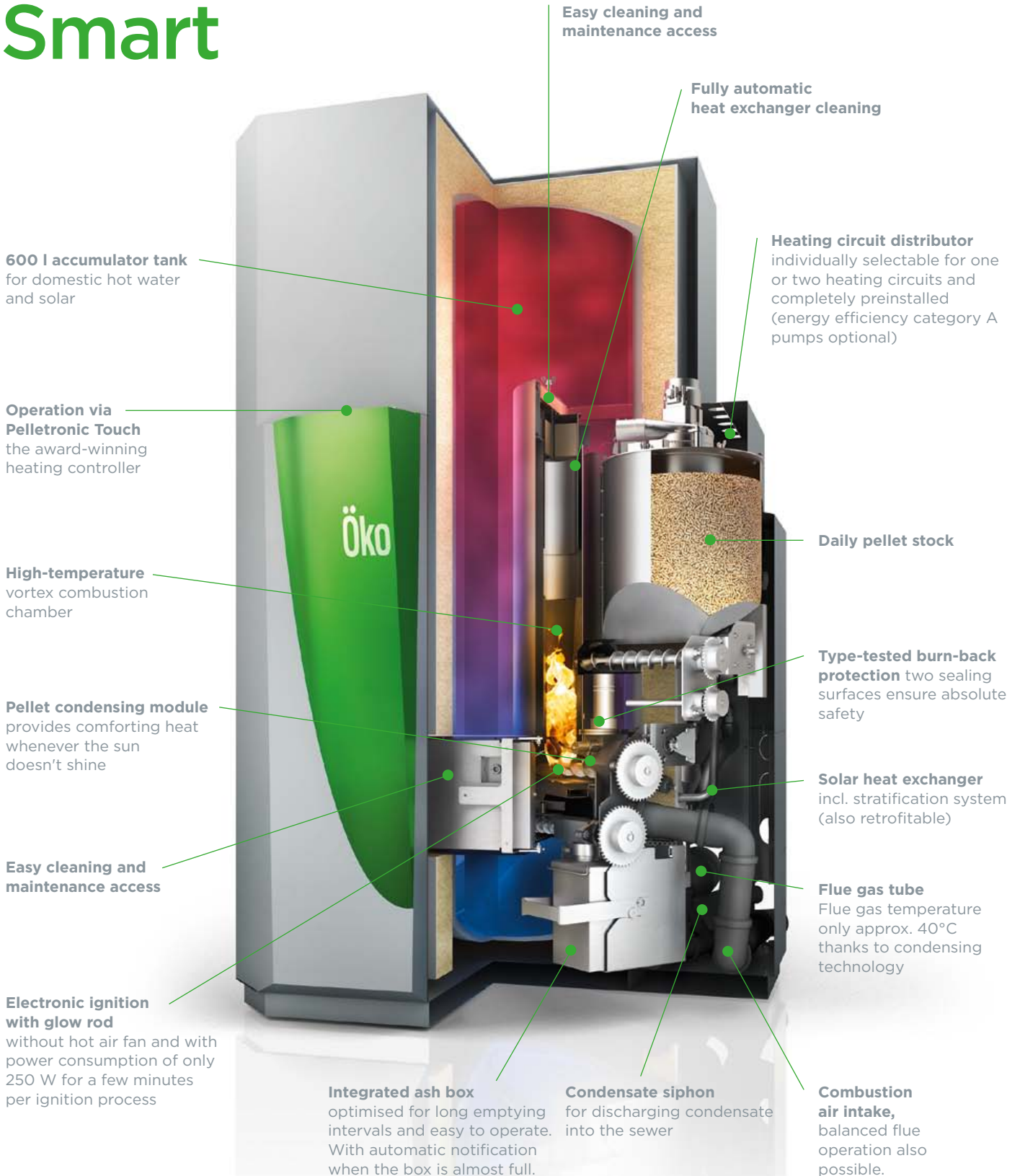
The technology of the Pellematic Smart extends beyond the boiler itself and into your hand in the form of an **app for your smartphone, tablet or PC [01].**

This gives you mobile access to your heating system settings whenever you have an internet connection. Need the house to be warmer when you get home? Log in and tell the Pellematic Smart.

The boiler can even notify you by email if the ash box needs to be emptied.

The technical refinements
in detail

Pellematic® Smart



Installation examples



Flexi tank with vacuum suction system



Storage room with vacuum suction system

FLEXI TANK

A convenient and affordable storage solution [01], perfect for use in limited space, rooms with low ceilings or damp cellars.

Detailed information about the flexi tanks can be found from page 40 onwards.

STORAGE ROOM

The traditional way to store pellets. [02] A storage room makes full use of the space available and every last pellet is delivered to the boiler for burning.

Further details concerning storage room solutions can be found from page 42 onwards.

THE VACUUM SUCTION SYSTEM

Our vacuum suction system transports pellets carefully through a connecting hose from the pellet store to the boiler.

The hose can be up to 20 metres in length, allowing for great flexibility in the siting of the pellet store. This is particularly useful if the store needs to be separate from the boiler, or even outside the building. Inside the Pellematic Smart is a small storage hopper which is fully filled automatically each day.



As an alternative to the fully automatic model, the Pellematic Smart is also available with manual filling.

The compact large boiler for apartment
buildings, commercial and public buildings

Pellematic® Maxi





Performance Range

- 36 kW
- 48 kW
- 56 kW

PLENTY OF POWER
IN A SMALL SPACE

56 kW

PERFECT FOR LARGE
BUILDINGS



**Big benefits
in a small space**

- ✓ Heating output up to **56 kW** flexibly variable.
- ✓ Expandable in cascade mode **up to 224 kW**
- ✓ **Fits through every standard door**, avoids conversions
- ✓ **Easy to maintain** and extremely **convenient**

**ÖkoFEN also offers:
a pellet boiler on a grand scale.**

The Pellematic Maxi builds on the proven technology of the Pellematic series and brings it to a powerful 56 kilowatt boiler, suitable for use in commercial and industrial settings, for local authorities and in large-scale projects.

Not only is it big on output, but the Pellematic Maxi ticks all of the boxes for features too, including a weighing system to monitor pellet consumption, a remote monitor with automatic notification for re-ordering pellet supplies and the compact ash box supplied as standard.

Pellematic Maxi –
The benefits at a glance:

The compact heating system for large-scale requirements. Economical, powerful and convenient.



HEATING FOR COMFORT

The Pellematic Maxi provides the proven technology of the Pellematic family of boilers for large-scale use. Benefits such as comfort and ease of maintenance are now available to commercial customers as well as private households.

The clean and simple to empty compact ash box is supplied as standard with the Pellematic Maxi.

FLEXIBLE & ECONOMICAL

The Pellematic Maxi is extremely flexible, which also makes it very economical.

When demand for heat is high it will switch to maximum output. But when demand tails off it will adjust its output accordingly - to as low as 30% of its available capacity, keeping fuel use to a minimum.

A feature unique to the Pellematic Maxi is the ability to have its maximum rated output adjusted retrospectively, to between 36 and 56kW, in just a few simple steps.

PROFESSIONAL & MOBILE

When you are heating a commercial building, control is particularly important. **A central remote monitor is a standard part of a Pellematic Maxi installation.**

With our Pellematic Touch heating controller you can quickly and conveniently access the heating system and call up all of its data from a computer or smartphone, wherever you are. The mobile user interface is reassuringly familiar because it exactly matches the control panel on the boiler itself (see pages 32-35 for details).



“With pellets, I am investing consciously in reliability and stability, with favourable heating costs for my company.”
Hannes Nösslböck,
Managing Director of Träumeland GmbH



LOW MAINTENANCE

At ÖkoFEN we work continuously to refine our products with clever new ideas and innovations in heating technology.

A great example of this is the **patented multi-segment burner plate**. Individual segments in the burner plate can be replaced, ensuring maintenance costs are kept to a minimum and service life is maximised. In the event that low quality pellets are used, the multi-segment burner plate from ÖkoFEN ensures uniform combustion.



WELL INFORMED

In the local authority and commercial sector information on fuel use and costs is crucial. This makes it important that pellet consumption is accurately recorded.

The optional, intelligent ÖkoFEN weighing system can ensure this information is always available, via the Pellematic Touch controller. You are kept up to date on the precise amount of pellets used, ensuring you never run out and have an ongoing record of consumption.



POWERFUL TEAM PLAYER

The Pellematic Maxi provides a flexible solution that can grow with demand. If your building undergoes renovation or is extended an additional boiler can easily be added.

Thanks to Cascade Control, up to four Pellematic Maxi boilers can run in parallel, generating high levels of heat and low levels of wear on the individual boilers. When full power is not required, only the boilers that are actually needed will be called into use. And thanks to its compact dimensions, the Pellematic Maxi will fit through most standard doorways, keeping conversion costs to a minimum.

The technical refinements
in detail

Pellematic® Maxi

**3-PART
ECO SYSTEM:**

- High efficiency
- Lowest emissions
- Swift adaptation to changes in the combustion system

Simple access for
maintenance and
cleaning

Integrated back
end protection
at no extra cost.

**ECO SYSTEM
Multi-segment
burner plate**

Simple access for
maintenance and
cleaning

**ECO SYSTEM
Combustion
chamber sensor**

**ECO SYSTEM
Negative
pressure
monitoring**

Induced draught fan

Hopper
for one day's supply
of pellets

**Fully automatic
heat exchanger
cleaning**

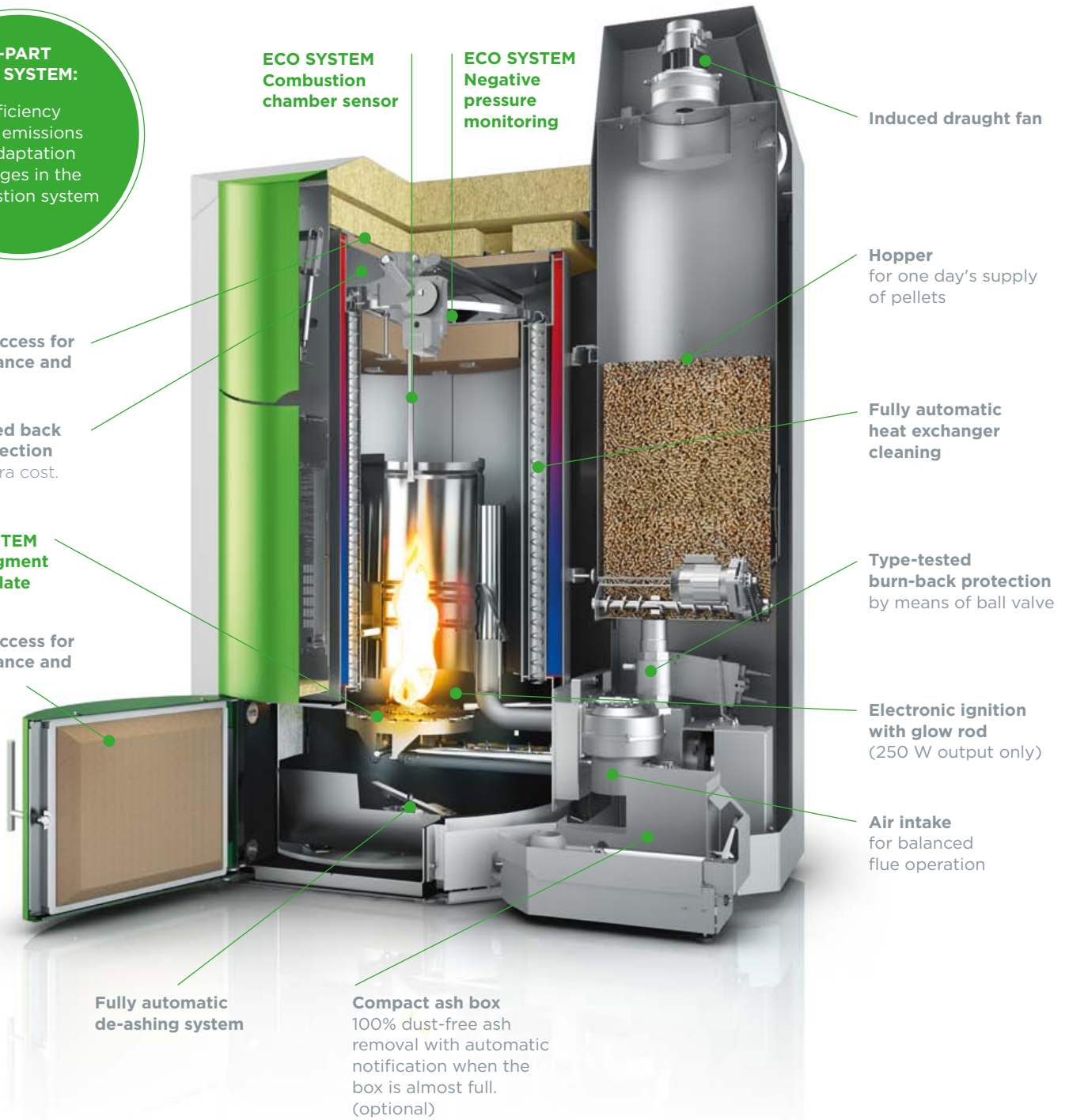
**Type-tested
burn-back protection
by means of ball valve**

**Electronic ignition
with glow rod
(250 W output only)**

**Air intake
for balanced
flue operation**

**Fully automatic
de-ashing system**

Compact ash box
100% dust-free ash
removal with automatic
notification when the
box is almost full.
(optional)



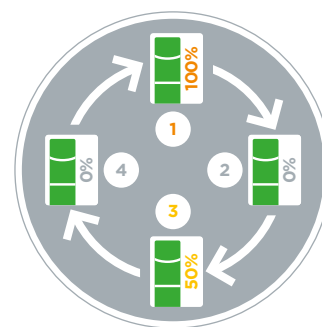
All for one and one for all. Efficient teamwork in heating.



HIGH OPERATIONAL RELIABILITY

A system with two to four Pellematic Maxi boilers allows for a permanently reliable supply of heat. It means that if one boiler is being serviced, at least one other will remain operational.

A Pellematic Maxi cascade can be supplied with pellets from both a **storage room** and a **flexi tank** because each boiler has its own pellet feed system.



RECIPROCAL RELIEF

When demand for heat varies, a cascade configuration will respond by activating and deactivating boilers as required. This makes it a highly efficient arrangement which reduces fuel and power consumption and keeps the load on individual boilers at its optimum low load.

Even better, ensuring uniform loading of demand on the boilers extends the system's service life by reducing component wear.

Possible combinations

Output	modulated	Cascade
72 kW	to 11 kW	with 2 boilers
96 kW	to 15 kW	with 2 boilers
112 kW	to 17 kW	with 2 boilers

Output	modulated	Cascade
144 kW	to 15 kW	with 3 boilers
168 kW	to 17 kW	with 3 boilers
192 kW	to 15 kW	with 4 boilers
224 kW	to 17 kW	with 4 boilers

Simple to use
touch technology

Pelletronic Touch





CONTROL
VIA THE
Internet
EASILY FROM
EVERYWHERE



**Complex technology,
simple control**

- ✓ One heating controller for the **whole heating system**
- ✓ Clearly arranged touchscreen, **straightforward navigation**
- ✓ Control via the internet with **smartphone, tablet and PC**

The Pelletronic Touch gives you complete control over your heating and hot water with a simple, user-friendly touchscreen interface.

Developed in-house by ÖkoFEN, the Pelletronic Touch makes the management of your Pellematic boiler simple and easy to understand.

Use the clear, colour display in your home or connect to your system through the internet on your smartphone, tablet or PC - wherever you happen to be!

**Pellematic Touch –
The benefits at a glance:**

Easy to operate, it controls your whole heating system.



EASY TO OPERATE

You will find the navigation menu on the Pelletronic Touch immediately understandable. The clearly arranged, illuminated graphic display features both intuitive symbols and text, making all of the system's functions available at the touch of a finger.

The Pelletronic Touch doesn't stand still. Software updates can be applied to every system as they are developed, keeping you at the cutting edge of technology.



THE MULTI-TALENTED CONTROLLER

The Pelletronic Touch puts you in control of your home's entire heating and hot water system.

Any combination of up to six heating circuits, three hot water boilers, three accumulator tanks and solar thermal systems, each with two solar circuits, can be managed from the same controller.

Cascade control for multi-boiler systems is also built into the Pelletronic Touch.

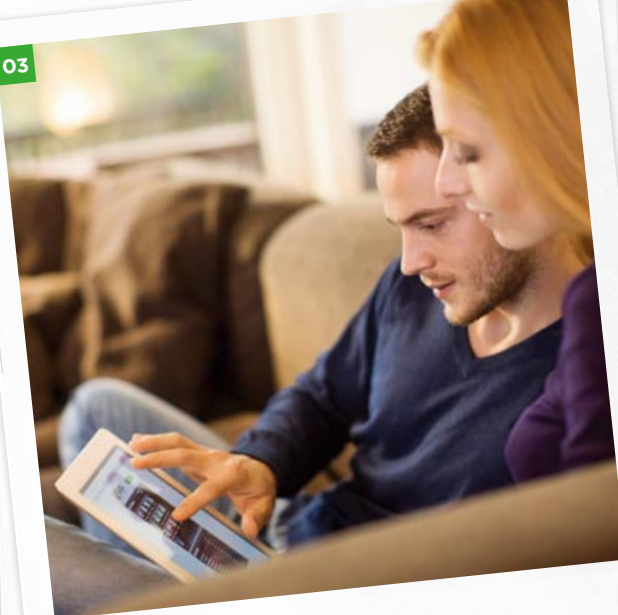


SOLAR YIELD AT A GLANCE

The Pelletronic Touch includes software for measuring a system's solar yield as standard. This can be paired with an inexpensive solar yield meter/flow meter to monitor your installation for optimal performance through the dedicated display or via the internet connected apps.

Carry out ongoing evaluation of the performance of your system and make adjustments quickly and easily.

03



Operate the heating system comfortably from your sofa with the Pelletronic web app.



RELIABILITY FOR YEARS TO COME

The Pelletronic Touch is built on state-of-the-art technology to ÖkoFEN's usual high standards.

The best quality components, chosen for top levels of temperature resistance and long service life, are used in every system.

You can expect reliable and trouble-free operation of your Pelletronic Touch for many years to come.



LIVING ROOM CONTROL

Why visit the boiler room each time you want to change your settings? **Your pellet boiler can just as easily be controlled from your living room.**

The touchscreen control module [02] exactly replicates the functions to be found on the boiler itself.

Or you can use the digital remote control [01] as another convenient way to change the settings. It's just the push of a button to set the target room temperature on the LED display.



MOBILE CONTROL

For the ultimate in convenience, you can control your ÖkoFEN pellet boiler from anywhere using our dedicated web app for the Pelletronic Touch. [03]

Control your system in exactly the same way as if you were standing in front of the touchscreen panel. The web interface can be downloaded from the internet on any connected smartphone, tablet or computer without the need to install special software.





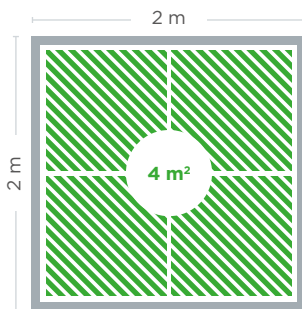
Storage technology

Our system design means that the supply of pellets to your boiler is always consistent and reliable, whether they are stored in the same building or in an outside tank.

A well-specified system will save space and enables dust-free delivery of pellet supplies by tanker.

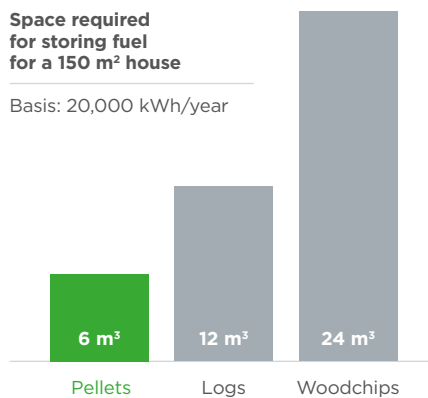
Pellets: compact
and convenient

A year's supply of wood pellets for a modern detached house only requires an area of approx. 4 m².



Space required
for storing fuel
for a 150 m² house

Basis: 20,000 kWh/year



COMPACT FUEL

Pellets have a bulk weight of min. 600 kg/m³. For a modern house with 150 m² of living space, approx. 8 m³ is sufficient to store a year's supply of wood pellets. **This means that you only need 2 x 2 m of floor space** to accommodate your fuel for the whole year.

With the flexible storage solutions from ÖkoFEN, this space can be located in the cellar, in the attic, in outbuildings or even outside the house.

SMALL STORAGE SPACE

Compared to logs and woodchips, the storage requirement for wood pellets is minimal.

For a 150m² house you would need approximately twice as much space to store an annual supply of logs for a central heating and hot water system than you need for pellets. With woodchips, this space would need to be four times the size!

CONVENIENT DELIVERY

Wood pellets are delivered to order and blown, cleanly and without fuss, into your storage area by hose. The tanker needs to be able to park within 30 metres of your pellet inlet.

Using this efficient method ensures your pellet store is replenished within a matter of minutes and the storage space filled with the pleasant aroma of fresh wood.

01



Our tip: Look for the ENplus seal of quality when purchasing pellets. This guarantees the best possible quality.



INDIVIDUAL SYSTEMS

The best storage method for your wood pellet supply depends upon the space you have available. This could be a flexi tank or a storage room.

Equally, the method of feeding pellets to your boiler will be determined by the layout of the system. For a pellet store situated immediately adjacent to the boiler it feeds, an auger delivery system with a screw conveyor is the ideal choice. Over longer distances, a vacuum suction system will transport the wood pellets reliably to the heating system.



ALL UNDER CONTROL

You can avoid having to judge when to re-order pellets (or even having to physically check) by equipping your storage room or flexi tank with our optional sensor.

The sensor constantly checks stock levels and will recommend to you the ideal time to replenish, either through a message on the boiler control panel or to your mobile control module.



KEEP CLEAR OF MOISTURE

If the storage space available to you runs the risk of being damp, we would always advise the use of a secure flexi tank.

Because **pellets absorb water**, they can swell and become unusable if they come into contact with water, damp walls or other moist surfaces. The flexi tank removes this risk.

However, normal humidity levels, such as those which occur naturally in rooms throughout the year will do your pellet supply no harm.



Space aplenty
for plenty of pellets

Flexilo fabric tanks

INNOVATIVE
STORAGE SOLUTION

+60%*

FILLING VOLUME FOR
FLEXILO COMPACT



Not everyone has the perfect cellar for storing wood pellets. That's why ÖkoFEN supplies a range of ready-made Flexilo fabric tanks in a variety of sizes, where wood pellets can be stored in a way that makes the best use of space and protects them from moisture.

A total of 40 sizes are available, with a capacity ranging from 450kg to 12 tonnes. These include the Flexilo Compact, which boasts a much greater capacity than the standard model for the same size.

With a ceiling height of only two metres you can accommodate up to 6.5 tonnes of pellets. An integral auger feeder and a flexible sloping floor design ensures the tank can be emptied completely.

ÖkoFEN flexi tanks create space

- ✓ Specially designed for ÖkoFEN pellet boilers
- ✓ The right size **for the space you have available**
- ✓ The right choice **even for low headroom**

Available in 40 sizes from 450 kg to 12 tonnes

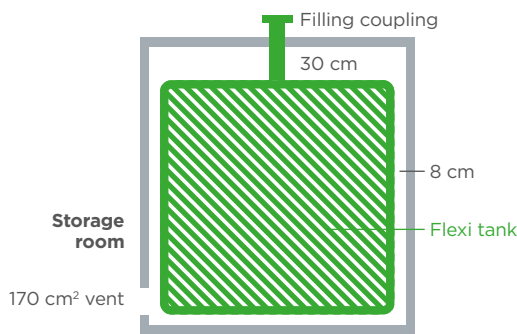


FLEXILO FABRIC TANK

These storage solutions have been specially designed for ÖkoFEN pellet boilers. The tank consists of a polyester fabric interwoven with metal thread.

The high-grade fabric is dust-tight, permeable to air and permanently anti-static. Installed quickly and simply, Flexilo fabric tanks are available in sizes from 450 kg (manual filling) to 12 tonnes with an delivery or vacuum suction system.

Special sizes are available on request.



THE SIZE OF THE STORAGE ROOM

There are some basic requirements for a pellet storage room. It must be at least 8cm wider than the flexi tank itself and 30cm longer than the tank on the side with the filling unit.

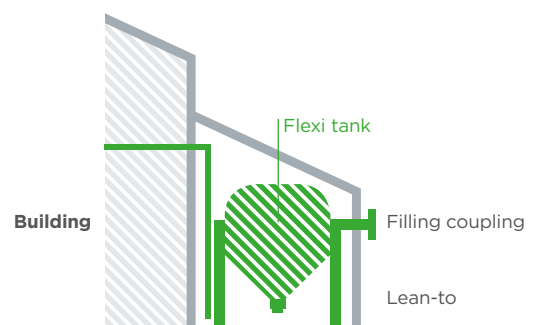
A minimum ceiling height of two metres is needed and to be filled to their maximum capacity most flexi tank sizes require a 2.4 metre ceiling height. Your storage room will also need a vent or window which is 170cm².



FLEXILO COMPACT FABRIC TANK

The Flexilo Compact fabric tank is an innovative refinement of the original which, with its extension spring system, allows up to 60% more filling volume than the equivalent size of standard tank. Thanks to an integral pellet feeding auger and the elastic sloping floor, the tank is guaranteed to empty completely every time.

There are two versions of the Flexilo Compact, for high and low headroom situations. Even with a ceiling height as low as two metres, larger quantities of pellets can be stored with ease.



WITH OUTDOOR INSTALLATION

An ÖkoFEN flexi tank can even be installed outside of the building containing the boiler.

A simple lean-to arrangement, with a roof and side panelling can protect it from the weather and the pellets are transported to the boiler using the efficient vacuum suction system.

Systematic storage
and pellet transport

Pellet storage room



Matching our innovative boilers to the best possible storage solutions has been part of ÖkoFEN's focus from the beginning.

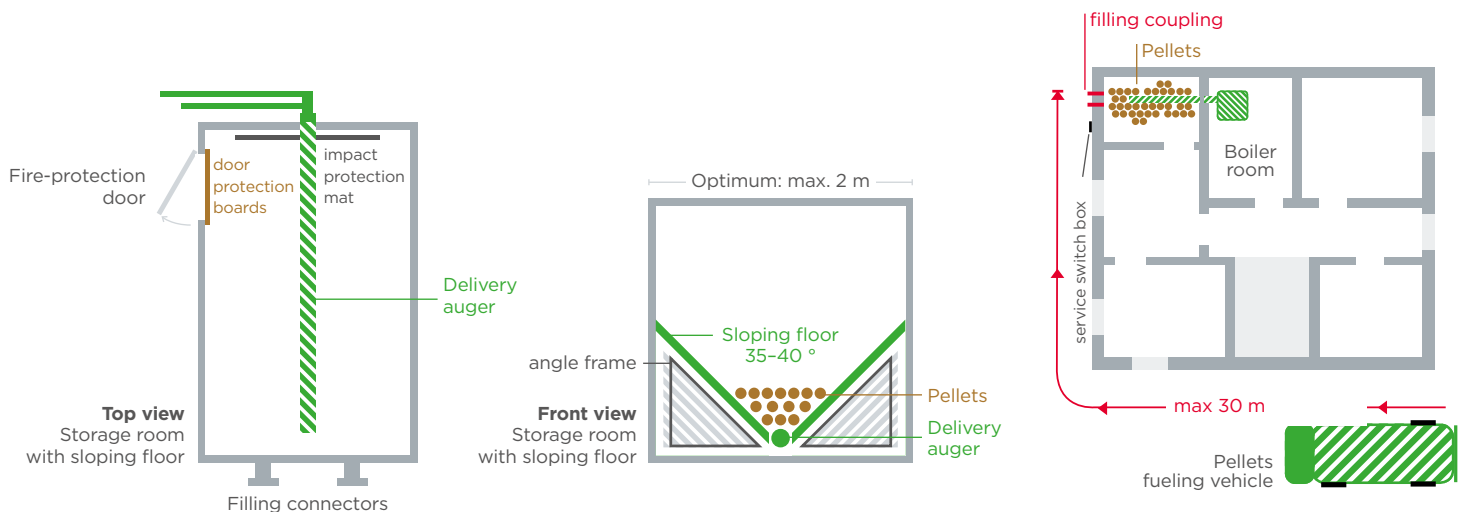
This means we have unrivalled know-how and an unsurpassed range of solutions for adapting cellars and other rooms for pellet storage.

We can provide advice on every aspect of storage, from the correct amount of space for your system through to all-inclusive solutions with bespoke floor plans and automated pellet transport to the boiler.

Is your cellar a suitable storage room?

- ✓ Pay attention to the **room dimensions** and the distance from the boiler
- ✓ **Dampness and moisture** make pellets **unusable**
- ✓ Ensure complete **emptying** with a **sloping floor**

The advantages of the original way to store pellets



THE SIZE OF THE STORAGE ROOM

The total heat load of a building determines the ideal size of the required storage room. As a rule of thumb, the following formula can be used: **each 1 kW heat load = 0.9 m³ storage space (including voids).**

In principle, it is better if the storage room is rectangular and no wider than two metres. The narrower the room is, the lower the inbuilt inclines will be and the more space can be used.

EMPTYING THROUGH SLOPING FLOOR

A sloping floor is the ideal configuration for a pellet store, allowing the space to empty completely of pellets. Not only does this allow for the maximum efficiency in feeding the fuel to the boiler, but it removes the need to clean the store room manually each year by avoiding a build-up of unused pellets.

With a sloping floor, the pellets slide to the delivery auger in the centre of the store. ÖkoFEN can supply angle brackets designed to give the optimum angle for a sloping floor sub-structure.

KEEP CLEAR OF MOISTURE

Ideally the storage room should be adjacent to an exterior wall. Should the storage room be internal the filler pipe and outlet pipe should be directed to the outer walls.

No light switches; sockets; lights or joint boxes should be installed in the pellet room itself.





Solar and accumulator technology

Everything is better when the sun shines. The same applies to heating. In future, it will be a matter of course to use the power of the sun to heat your home.

For some forward thinkers, the future has already begun.

The solar collector for cost-conscious forward thinkers

Pellesol





Made in Austria



All Pellesol solar collectors are manufactured in Linz, Upper Austria.



Beautifully designed and from a single source

- ✓ **Meticulous workmanship** for the best quality possible
- ✓ Solar collectors **perfectly matched** with the ÖkoFEN boilers
- ✓ The **logical addition** to an ecological heating system
- ✓ **Timeless design**, simple frame

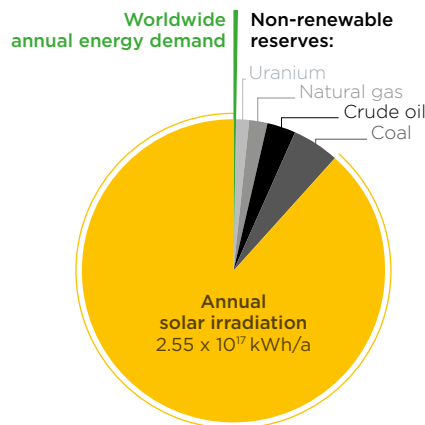
In the future, all heating systems will have integrated solar energy. But you can have it now.

Adding the ÖkoFEN Pellesol solar collector to the other components of our ecologically orientated product range makes perfect sense. The specially coated aluminium absorber surface on the Pellesol collects the energy from the sun and stores it as heat in the accumulator tank.

Whether you opt for on-roof installation of solar collectors or choose close integration with your roof structure, ÖkoFEN can provide you with an attractively designed solution, built to the highest quality.

Everything cleverly
thought out:

Invest once in Pellesol collectors and benefit forever from free solar energy.



SAVE WITH SOLAR ENERGY

Make the most effective use of the sun's free energy and enjoy substantial savings on your heating costs.

In the summer and whenever there is plenty of sunlight solar energy can meet almost all of your hot water and heating requirements.

LIMITLESS AVAILABILITY

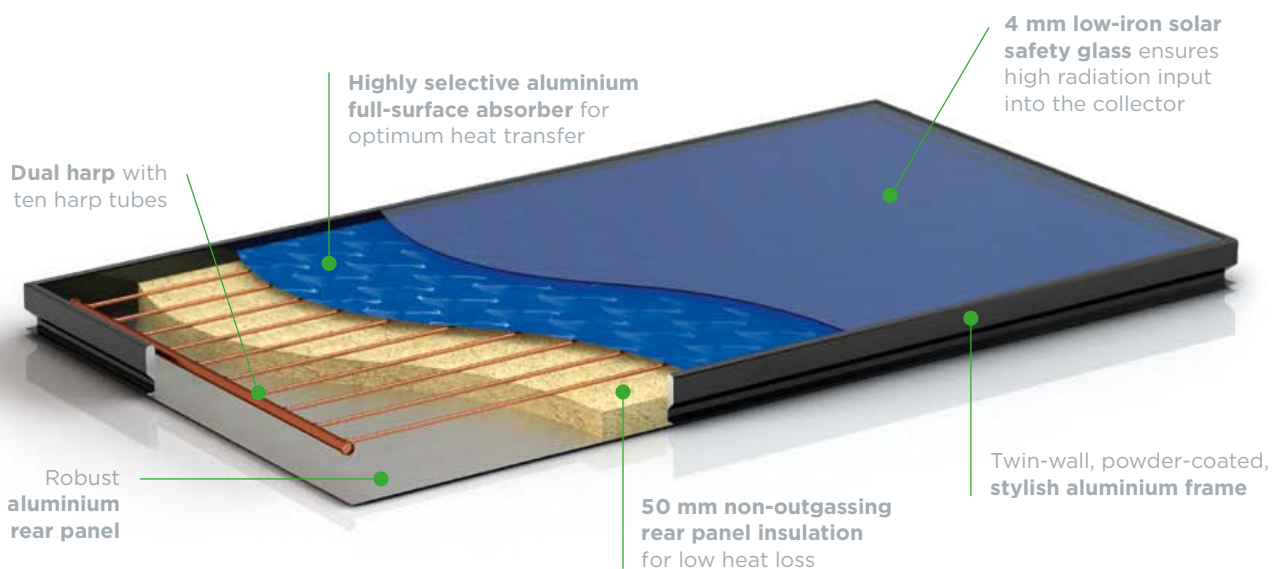
The sun is an inexhaustible energy source. **The radiation from it hitting the earth's surface every year corresponds to a thousand times the world's energy needs.**

Unlike fossil fuels such as coal, gas, crude oil and uranium, it is unaffected by market speculation and available in unlimited quantities for billions of years.

FOR HEATING AND HOT WATER

The Pellesol collector is perfectly suited to domestic hot water heating, but it can be used just as well for supporting your central heating system.

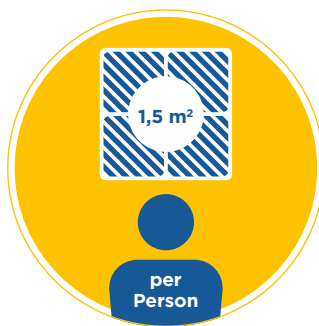
- **Efficiency: 79%**
- **Absorption: 95%**
- **Reflection: 4%**
- Non-outgassing rear panel insulation with a thickness of 50 mm made of rock wool



ROBUST ASSEMBLY SYSTEM

ÖkoFEN Pellesol installations are supplied with an easy-to-use, robust assembly system made from aluminium and stainless steel and designed to match the finish on the collectors.

Our system guarantees swift and **secure fitting that will maximise the service life** of the entire system.



SURFACE AREA

In a detached house, an estimated collector surface area of 1.5 m² is required per resident for domestic hot water heating. This allows 60% of the annual DHW demand to be met by solar energy. The remaining 40% is provided by the pellet boiler.

For a detached house accommodating a family of four, with a roof pitch of 40° and orientation of 30° west, the calculation is as follows: $4 \times 1.5 \text{ m}^2 = 6 \text{ m}^2$ total collector surface area.



THE RIGHT ORIENTATION

A south facing roof surface is ideal for achieving maximum efficiency from solar collectors. However, in principal, any unshaded surface can be suitable. Facade surfaces facing anywhere between south east and south west can also be considered.

Where the orientation of the roof or wall is not ideal, a lower yield can be compensated for by increasing the total surface area of the collectors.

The multifunctional
stratification cylinder

Pellaqua



Cylinder sizes

600 litres
800 litres
1,000 litres

50
51



Increases the efficiency of the heating system

- ✓ **Increases the annual output** of the heating system
- ✓ **Saves heating costs** by improving fuel usage
- ✓ Ensures a **long pellet boiler service life**

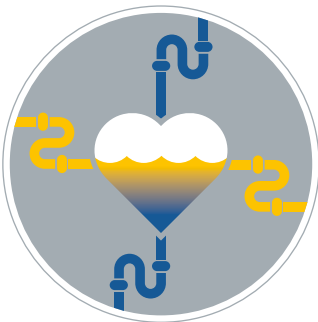
The stratification cylinder developed in-house by ÖkoFEN is the optimally coordinated interface between your pellet boiler and solar collectors.

In contrast to conventional stratification cylinders, the Pellaqua has an intelligent stratification pipe system. All hydraulic and control components are already integrated. Three available cylinder sizes of between 600 and 1000 litres enable selection based on individual requirements.

The versatile, powerful ÖkoFEN stratification cylinder is also delivered ready for connection. You can begin to heat immediately after an extremely short installation on site.

More than a conventional accumulator tank.

Unites domestic hot water heating, central heating and the entire installation



WHY USE AN ACCUMULATOR TANK?

The accumulator tank is the storage heart of your heating system. It balances out differences between energy generation and energy consumption, which has the dual benefits of controlling costs and reducing wear and tear on your boiler.

The number of burner starts is kept to a minimum by storing the energy you have already generated, leading to less pellet consumption, lower stresses on the boiler and less impact on the environment.

COMPLETE AND VERSATILE

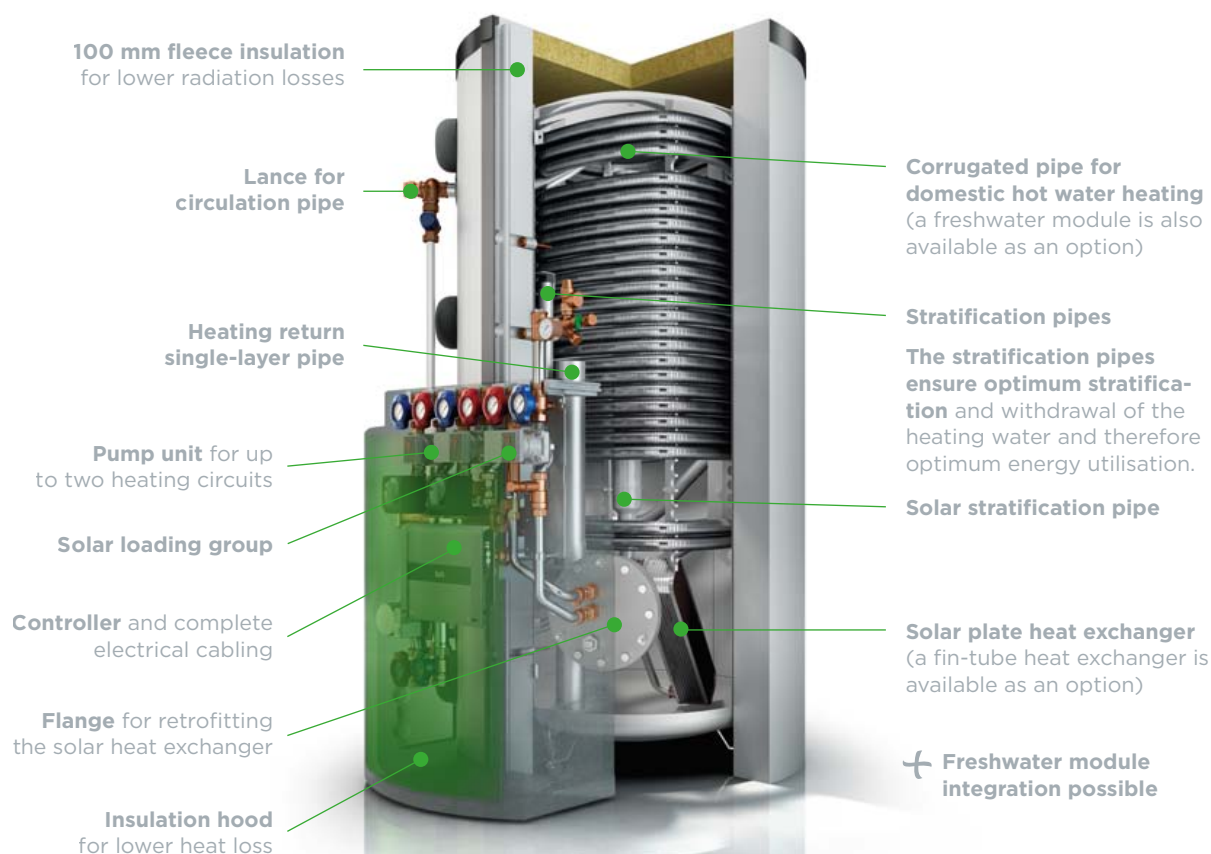
The Pellaqua is far superior to conventional accumulator tanks. It accomplishes a number of functions as the interface between your solar system and pellet boiler.

All of the pumps for the heating distribution circuit are contained within the Pellaqua, as are all of the heat exchangers for solar energy input and domestic hot water from your boiler. It is fully integrated into the Pellematic control system and ready-wired for swift connection into your installation. It can even be retrofitted with a solar heat exchanger if you add solar collectors at a later date.

CLEAN BOILER ROOM SOLUTION

All of the components needed for heating circuit distribution are installed under the Pellaqua's insulation hood, **avoiding costly wall installations and complicated cable and pipe routing.**

This self-contained solution, including all of the controls and control wiring ensures the boiler room remains clean, tidy and uncluttered.



HEAT STRATIFICATION SYSTEM

The Pellaqua is designed in such a way that the heat from both the solar thermal system and the heating system enters into the accumulator tank via two ideally matched stratification pipes.

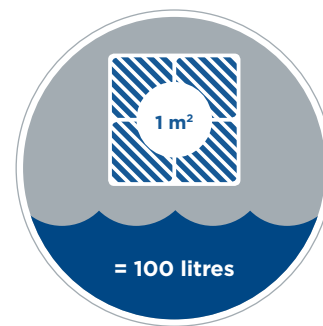
This ensures the most effective stratification of the hot water and leads to more efficient and cost-effective use of the heat you have produced.



FROM A SINGLE SOURCE

Great care was taken during the development of the Pellaqua accumulator tank that the heating circuit, **distribution system and controller would work seamlessly together**. Achieving this has enabled the creation of the most efficient product possible.

It's a simple principal of production that is also reflected in the personal service we strive to provide to all ÖkoFEN customers, ensuring you have a single, competent contact for all of your questions and needs.



CORRECTLY SIZED

The ideal cylinder size for the combination of a pellet boiler with solar collectors can be calculated using the following rule of thumb:
1 m² collector surface area = 100 litres cylinder capacity.

For a detached house accommodating a family of four, which uses a solar thermal system with 10 m² of collectors for central heating backup, this means: 10 m² x 100 l = 1000 l cylinder capacity. The recommended cylinder would be the Pellaqua 1000.





ÖkoFEN: The benchmark in heating with pellets

From the search for an environmentally responsible alternative arose the leading light in pellet boiler systems.

The secret: never settle for what has been achieved so far and continue to work on constant improvements.



”

**Our strategy:
The best product
for the best fuel.
This makes us the
benchmark in heating
with pellets.**

“

PIONEERING SPIRIT

We are always searching for new solutions. The development of the world's first type-tested pellet boiler, the integration of condensing technology with pellets, and the presentation of a pellet boiler for generating power have made us the benchmark in heating with pellets.

CONSERVATION

Furthermore, we are committed to environmental protection. Apart from using the CO₂-neutral, renewable raw material that is wood, we feel committed to the environment in other areas as well. 100% green electricity, low-energy construction methods for our company buildings, electric vehicles for company cars – to name just a few examples.

RESPONSIBILITY

Listen, consider, act sustainably – this is our creed in our dealings with each other, our partners, our customers and the public. The result: Continuous product improvement and long-term decentralised structures lead to top marks in customer satisfaction surveys within our markets.

QUALITY

An extremely reliable and robust product of the highest technical standard. This is our aspiration along the entire chain. From research and development, to production, through to customer service, the trust of our customers and the requirements of the future are our obligation and our motivation.



Pellet pioneer & company founder
Herbert Ortner



Managing Director
Stefan Ortner

Dynamic growth
and deep roots

From pioneer to premium world brand

The story of the modern pellet boiler began in a converted cowshed in Austria. In the mid-eighties, following the second oil crisis, Herbert Ortner set himself the goal of supplying homes with heat, without the need for oil. Together with two employees, he started producing heating systems fuelled by woodchips. It soon became apparent that woodchips are only suitable for the farming sector or large systems.

On the other hand, wood pellets offered convincing benefits. However, these were little known and very scarce in Central Europe. Nevertheless, Herbert Ortner developed a device for them in 1997: Europe's first pellet boiler – the ÖkoFEN Pellematic range. Its technical convenience presented customers with an alternative to heating with oil.

The timber industry followed suit, turning what had previously been worthless sawdust into a high grade fuel – creating substantial added value. **And because pellet boilers were becoming increasingly popular, ÖkoFEN ceased production of woodchip boilers in 1999. From then on, their attention was focussed on pellet boilers, which were now also being exported.**

Today, ÖkoFEN is Europe's specialist in pellet heating systems, with a modern production facility and several hundred employees throughout Europe. ÖkoFEN has also paved the way for pellet heating technology beyond the borders of German-speaking countries. 50,000 installed systems, subsidiaries in 17 countries worldwide, and groundbreaking innovations justify the decision to specialise in pellets.

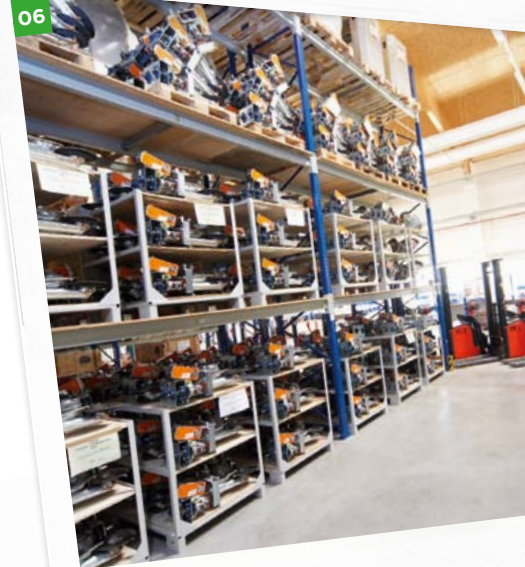
03



05



06



01



02



04



- 01** One man - one pellet boiler. True to this motto, each engineer assembles each pellet boiler alone from A to Z.
- 02** ÖkoFEN's German head office has been located in Mickhausen near Augsburg since 2006.
- 03** Home: The Mühlviertel, Upper Austria
- 04** Component production in Purgstall, Lower Austria.
- 05** Innovations are developed and tested on an ongoing basis in the Research & Development department.
- 06** Everything in stock and ready for assembly - Made in Austria

ÖkoFEN





Always nearby,
always there for you:

60
61



Specialisation also pays dividends in the case of our service technicians: Every one of them is a specialist in pellet heating systems.



Your ÖkoFEN Service

WWW.PELLETSHEIZUNG.COM

You can find our contacts for your region or country on our website at www.oekofen.com/countries, along with comprehensive information on the subject of heating with pellets.

As pellet specialists, we and our associates offer plenty of information on proper planning, grants and subsidies, how to select the best pellet boiler for your needs, technical information about our products and an extensive glossary on the topics of pellets and heating.

REGIONAL

Many businesses in the heating industry are built around the centralised distribution of products by a handful of large partners and focused purely on sales. **However at ÖkoFEN, sales and customer service belong inextricably together.**

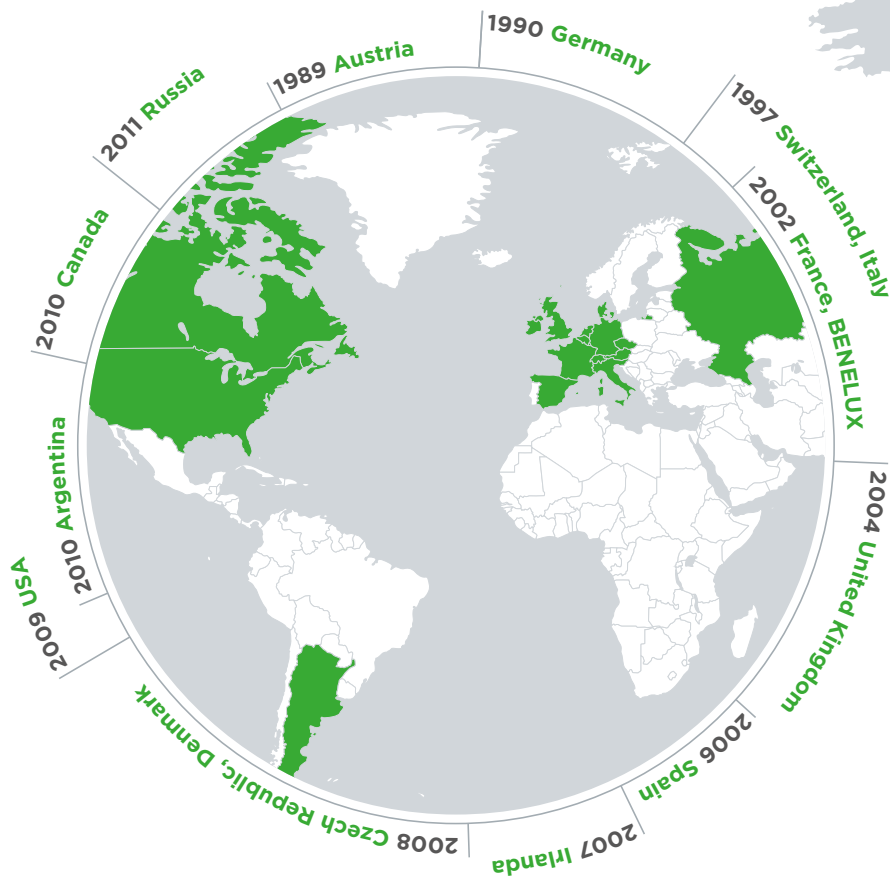
For this reason we are pushing ahead with the expansion of Europe's most extensive sales and service network for pellet heating systems. We work with carefully chosen partners around the world who meet our high standards for skills and our customer service ethos.

THERE FROM THE BEGINNING

The responsibility of these ÖkoFEN agents does not end with the conclusion of the sale. **Rather, it extends from planning the system, to installing and commissioning it, through to ongoing support** for the product throughout its lifetime and beyond.

This philosophy provides customers with optimum planning for their system and then swift and efficient customer service with specialist staff. This guarantees reliable heating at home for every single customer – any time, any place.



The most extensive sales & service network specifically for pellet boilers in German-speaking countries

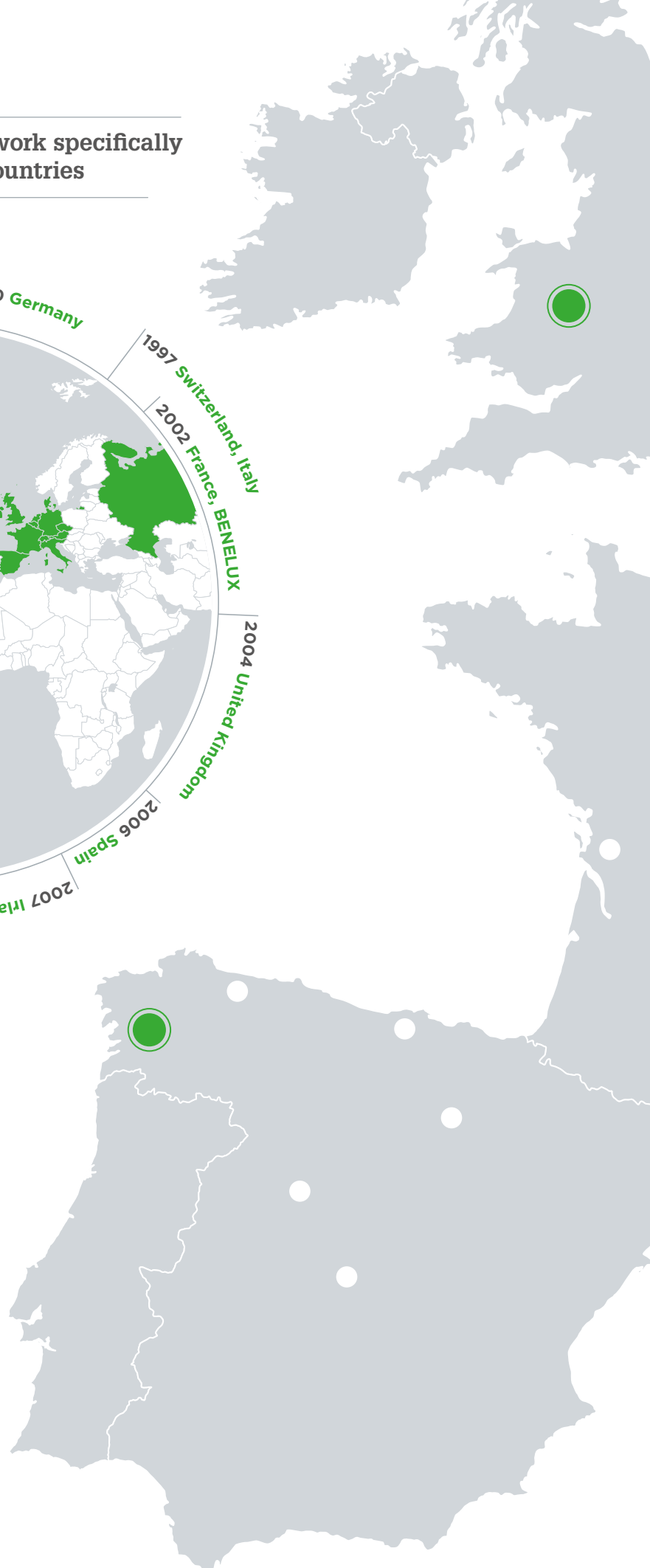


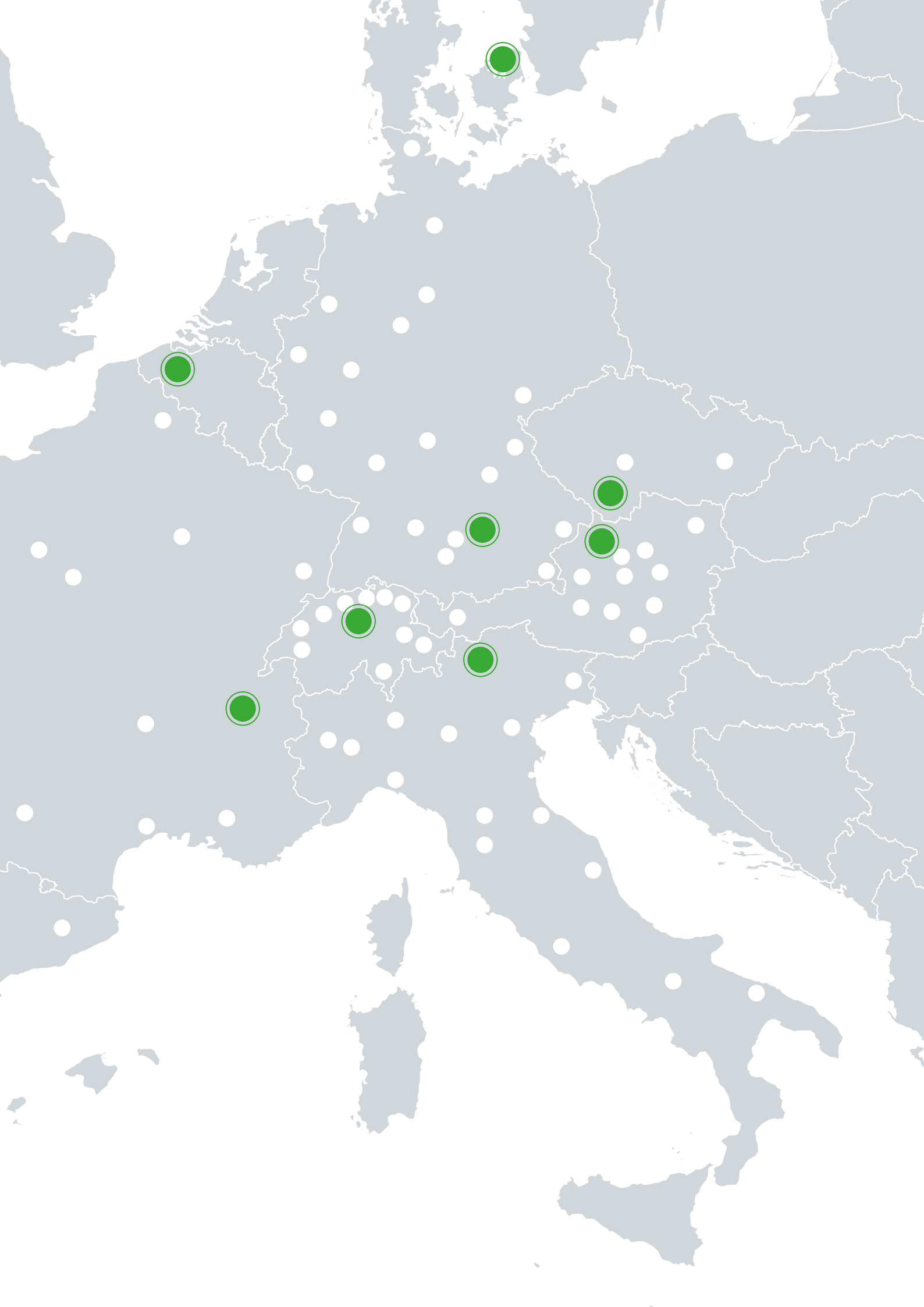
ÖkoFEN is Europe's specialist in pellet heating systems and one of the world's leading manufacturers.

More than 50,000 pellet boilers have already been supplied to industrial, commercial and private customers. ÖkoFEN is now represented in 17 nations and in all of them ÖkoFEN stands for innovation, quality and sustainability.

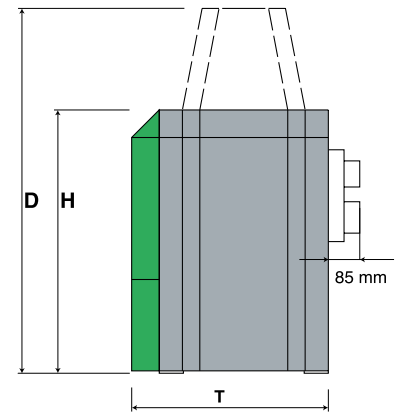
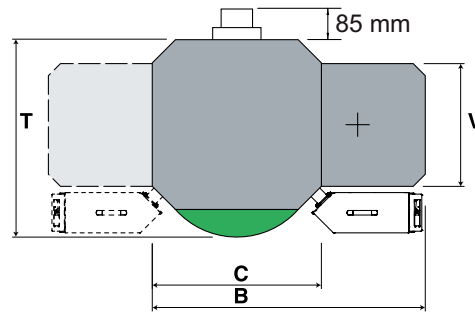
Addresses and contact details for all national head offices and subsidiaries can be found at www.oekofen.com

-  National subsidiaries
-  Regional representatives





Technology in detail



PELLEMATIC

Boiler type		PE(S)10	PE(S)12	PE(S)15	PE(S)20	PE(S)25	PE(S)32	PES36	PES48	PES56	
Boiler rated output	kW	10	12	15	20	25	32	36	48	56	
B - width - total	mm	1,130	1,130	1,130	1,130	1,186	1,186	1,297	1,297	1,297	
C - width - boiler	mm	700	700	700	700	756	756	862	862	862	
H - height - boiler	mm	1,090	1,090	1,090	1,090	1,290	1,290	1,553	1,553	1,553	
D - height - suction-feed system	mm	1,392	1,392	1,392	1,392	1,592	1,592	1,855	1,855	1,855	
T - depth - boiler	mm	814	814	814	814	870	870	990	990	990	
V - depth - burner casing	mm	508	508	508	508	508	508	508	508	508	
Maximum unit dimension	mm	690	690	690	690	750	750	790	790	790	
Flue tube - connecting height	mm	645	645	645	645	844	844	1,040	1,040	1,040	
Weight	kg	242	242	246	250	316	320	602	606	610	
Water capacity	l	66	66	66	66	104	104	135	135	135	
Flue size - diameter at the boiler	mm	130	130	130	130	150	150	180	180	180	
Electrical connection		230 VAC, 50 Hz, 13 A with transport auger					16 A with vacuum suction system				
Electrical connection for tandem system		400 VAC, 50 Hz, 16 A with vacuum suction system									

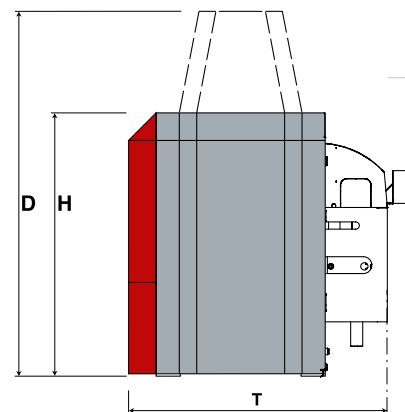
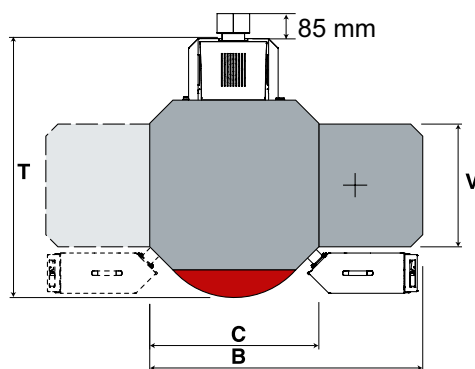
Technical specifications subject to change without notice

FLEXILO COMPACT

Item no.	Length	Width	Height*	Filling volume**
KGT1814	1,840 mm	1,440 mm	1,850 - 1,970 mm	1.3 - 3.3 t
KGT2614	2,580 mm	1,440 mm	1,850 - 1,970 mm	2.0 - 4.7 t
KGT2618	2,580 mm	1,840 mm	1,850 - 1,970 mm	2.4 - 6.2 t
KGT2620	2,580 mm	2,040 mm	1,850 - 1,970 mm	3.3 - 7.0 t
KGT2626	2,580 mm	2,580 mm	1,850 - 1,970 mm	4.0 - 8.5 t

* Stayer height ** Filling volume depends on the bulk weight of pellets (kg/m³) as well as the ceiling height and can differ by up to 20%. For the maximum filling volume, a ceiling height of at least 240 cm.





PELLEMATIC PLUS

Boiler type		PE(S)K10	PE(S)K12	PE(S)K15	PE(S)K20	PE(S)K25	PE(S)K32
Boiler rated output	kW	10	12	15	20	25	32
B - width - total	mm	1,130	1,130	1,130	1,130	1,195	1,195
C - width - boiler	mm	700	700	700	700	761	761
H - height - boiler	mm	1,090	1,090	1,090	1,090	1,290	1,290
D - height - suction-feed system	mm	1,392	1,392	1,392	1,392	1,592	1,592
T - depth - boiler	mm	1,080	1,080	1,080	1,080	1,135	1,135
V - depth - burner casing	mm	508	508	508	508	508	508
Maximum unit dimension	mm	690	690	690	690	750	750
Flue tube - connecting height	mm	800	800	800	800	1000	1000
Weight	kg	272	272	276	280	346	350
Boiler efficiency at rated load	%	99.52	100	100.6	101.3	102	102.8
Water capacity	l	66	66	66	66	104	104
Flue size - diameter at the boiler	mm	130	130	130	130	130	130
Chimney design	suitable for condensing boiler - solid fuels - negative pressure operation (NI), but pressure-tight to 0.2 mbar						
Electrical connection	230 VAC, 50 Hz, 13 A with transport auger 16 A with vacuum suction system						

Please note: The warranty for pellet boilers with condensing technology is only valid if the following operating conditions are complied with: 1) Diameter of the connection pipe and the chimney must be at least 130 mm 2) The condensing boiler may only be operated with an accumulator tank 3) A maximum temperature of 35°C must be ensured at all times in the return from accumulator to boiler - this calls for a low temperature heating system (underfloor or wall heating) - Technical specifications subject to change without notice

FLEXILO CLASSIC - MINIMUM CEILING HEIGHT 215 CM

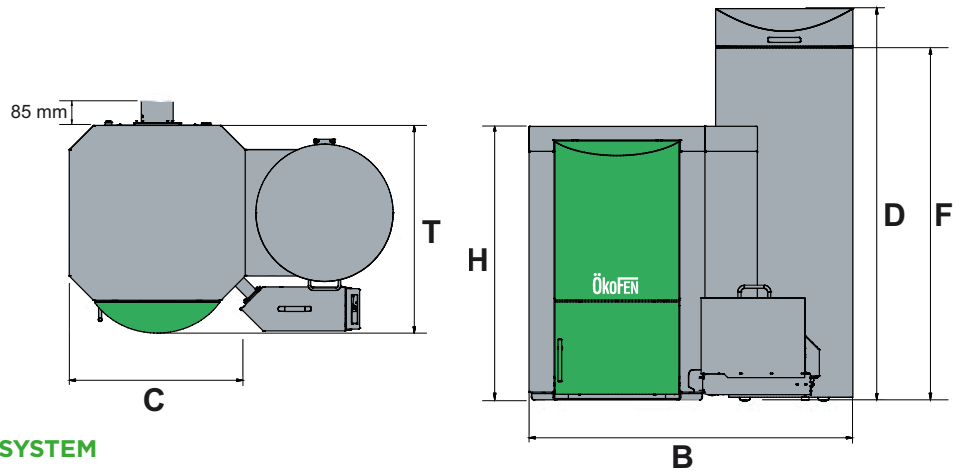
Item no.	Length	Width	Height*	Filling volume**
S110	1,100 mm	1,100 mm	1,350 mm	450 kg (manual filling)
S160H	1,700 mm	1,700 mm	1,970 mm	2.0 - 2.5 t
S190H	2,040 mm	2,040 mm	1,970 mm	2.8 - 3.2 t
S220H	2,300 mm	2,300 mm	1,970 mm	3.1 - 3.6 t
S260H	2,580 mm	2,580 mm	1,970 mm	4.0 - 4.6 t
S2216H	2,300 mm	1,700 mm	1,970 mm	2.7 - 3.1 t
S2219H	2,300 mm	2,040 mm	1,970 mm	3.0 - 3.4 t
S2619H	2,580 mm	2,040 mm	1,970 mm	3.0 - 3.6 t
S2622H	2,580 mm	2,300 mm	1,970 mm	3.6 - 4.2 t

* Stayer height ** Filling volume depends on the bulk weight of pellets (kg/m³) as well as the ceiling height and can differ by up to 20%. For the maximum filling volume, a ceiling height of at least 240 cm, and 215 cm for KGT...N, must be available.

Please note: Flexilo Classic available in special heights



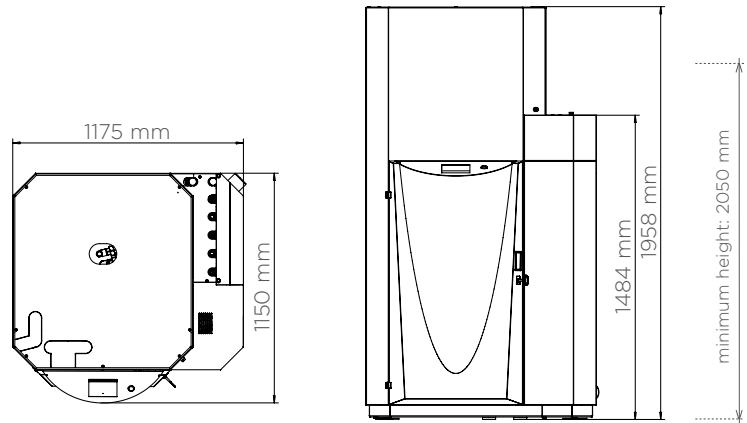
Technology in detail



PELLEMATIC WITH CONTAINER SYSTEM

Boiler type		PE10B	PE12B	PE15B	PE20B	PE25B	PE32B
Boiler rated output	kW	10	12	15	20	25	32
B - width - total	mm	1,297	1,297	1,297	1,297	1,354	1,354
C - width - boiler	mm	700	700	700	700	756	756
H - height - boiler	mm	1,090	1,090	1,090	1,090	1,290	1,290
D - total height incl. cover	mm	1571	1571	1571	1571	1571	1571
F - filling height	mm	1,450	1,450	1,450	1,450	1,450	1,450
T - depth - boiler	mm	814	814	814	814	870	870
Maximum unit dimension	mm	690	690	690	690	750	750
Flue tube - connecting height	mm	645	645	645	645	844	844
Weight	kg	242	242	246	250	316	320
Water capacity	l	66	66	66	66	104	104
Container filling capacity	kg	130	130	130	130	130	130
Flue size - diameter at the boiler	mm	130	130	130	130	150	150
Electrical connection		230 VAC, 50 Hz, 13 A with transport auger 16 A with vacuum suction system					

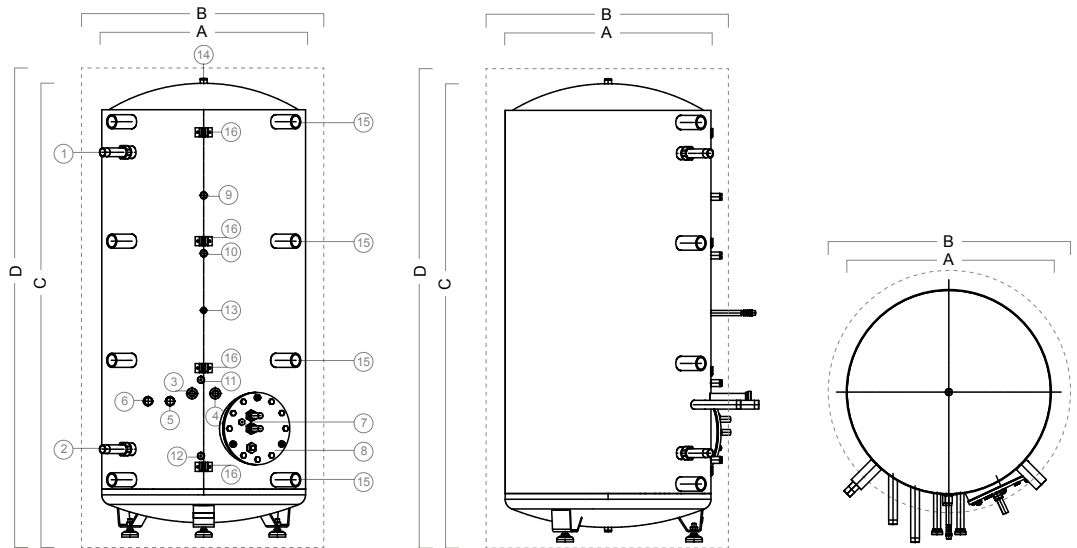
Technical specifications subject to change without notice



PELLEMATIC SMART

		4 - 8 kW	10-12 kW
Burner rated output	kW	3.9 / 5.9 / 7.8	10 / 12
Efficiency - rated load	%	100.0 / 103.0 / 106.1	105,9 / 105,5
Width · height · depth - total	mm	1,175 · 1,958 · 1,150	
Maximum unit dimension · tilted height	mm	790 · 1970	
Flue tube - connecting height	mm	490	
Weight (without water, fully equipped)	kg	430	490
Water capacity · hopper volume	l · kg	605 · 32	
Flue size - diameter at the boiler	mm	132 (inside)	
Chimney diameter	mm	min. 130	
Chimney design		suitable for condensing boiler - solid fuels	
Electrical connection		230 VAC, 50 Hz, 16 A with vacuum suction system	

Technical specifications subject to change without notice



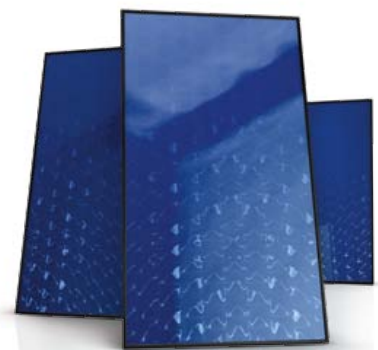
PELLAQUA

Type		600	800	1,000
Tank volume	l	600	800	1,000
A - diameter without insulation	mm	700	790	790
B - diameter with insulation	mm	930	1,020	1,020
C - height without insulation	mm	1,750	1,750	2,180
D - height with insulation	mm	1,870	1,870	2,310
Tilted height	mm	1,800	1,800	2,200
Maximum unit dimension	mm	700	800	800
Weight	kg	165	175	205

Technical specifications subject to change without notice · Information regarding DHW heat exchanger: Use of an expansion vessel is recommended in the cold water supply line to the cylinder in order to prevent pressure fluctuations and any associated noise when drawing hot water (ADG 12-TW)

Key for Pellaqua

- | | |
|-----------------------------|------------------------------|
| 1 DHW inlet 1" fem | 10 Sensor well 6 mm, TPO |
| 2 DHW inlet 1" fem | 11 Sensor well 6 mm, TPM 12 |
| 3 Heating circuit flow | Sensor well 6 mm, solar |
| 4 Heating circuit return | 13 Retaining sleeve DN 20 mm |
| 5 Boiler flow | for hydraulic unit |
| 6 Boiler return | 14 Air vent valve 1/2" |
| 7 Solar loading flow/return | 15 Extension ports 6/4" |
| 8 Solar flange | 16 Sensor lugs for |
| 9 Sensor well 6 mm, DHW | extension ports |



PELLESOL

Type		Pellesol-a	Pellesol-i
Installation type		On-roof	In-roof
Dimensions H x W x D	mm	2,064 x 1,154 x 98	2,077 x 1,170 x 107
Total surface area	m ²	2.38	2.44
Light entry area	m ²	2.21	2.22
Absorbing area	m ²	2.20	2.2
Weight without heat transfer medium	kg	43	53
Fill volume	l	1.54	1.54
Max. operating pressure	bar	10	10
Mounting angle		20° - 70°	20° - 75°

Technical specifications subject to change without notice



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