

The expert for pellets.



VarioWIN – Technology makes it possible.

VarioWIN – Wood pellet boiler
Provision of heat: 0 – 12 kW



A breath of fresh air with pellets.

Free and independent!

Any windsurfer will tell you – it is a sheer pleasure to be driven by the wind, gliding over the waves and indeed soaring over meter-high swells. **To be as free and independent as possible, using energy in harmony with nature:** these are the same criteria that are important when heating. As a result, more and more home owners are selecting a sustainable heat supply using pellets manufactured using the renewable resource of wood which we have in adequate supply. Using a wood pellet heating system you make yourself independent from foreign energy imports whilst enjoying a high security of supply.

All of us hope that nature. We should on a solution that lets is particularly as much CO₂ as growth.

our children will also delight in a clean environment with unspoiled also think about this when heating and it behoves us to decide is kind both to the environment and resources. Heating with pellet environmentally friendly because burning them only releases will be absorbed by the same quantity of wood during its





Flexible and versatile.

Windsurfers continually strive to improve their technique, as WINDHAGER does to bring its wood pellet heating technology to perfection. To achieve this, we have set ourselves the task of developing solutions that enable you to use wood pellet fuel easily and efficiently.

The best example of this is our new VarioWIN wood pellet boiler. Do you need a pellet boiler for your boiler room or for in your home? Do you want to store the pellets in the cellar or would you prefer to convert a small storeroom?

With VarioWIN, all of this is possible. With its different boiler versions and pellet feed variants, VarioWIN offers solutions for all requirements. With a performance range of between 3.6 and 12 kW, it is perfectly suited to low-energy standard buildings. When combined with the flange-mounted balance tank, the VarioWIN is ideal for very low heating requirements (e.g. in passive buildings), making it a real and sustainable alternative to heat pumps.

Technology makes it possible:



Practical and flexible.

- ✓ Practical, value-for-money complete solution: Wood pellet boiler + Feed system + Pellet store ALL IN ONE is possible.
- ✓ Can be installed practically anywhere from the cellar to the attic.
- ✓ Flexible heat consumption of 0–12 kW is possible with the balance tank.

Energy saving and efficient.

- ✓ Modulates its heat generation to the actual demand.
- ✓ Ensures efficient and clean combustion even in low output ranges.
- ✓ Wood pellet combustion technology has proven itself many thousands of times over.
- ✓ High-quality boiler 'Made in Austria'.

Simple and convenient.

- ✓ High operating convenience with integrated cleaning mechanisms.
- ✓ Choice of two comfort levels.
- ✓ Can be combined with other heat generators thanks to WINDHAGER system technology.

Can be used anywhere.





The different versions and wood pellet feed variants mean that the VarioWIN can be installed anywhere from the cellar to the attic.



- 1 **VarioWIN with manual pellet loading**
Available in red or white casing options.
- 2 **VarioWIN with pellet feed via suction system**
Can be installed in any room.
- 3 **VarioWIN with direct pellet feed and sheet steel pellet tank**
All in one wood pellet boiler + feed system + pellet store
- 4 **VarioWIN with direct pellet feed and self-build pellet store**
The compact solution with self-build pellet store.
- 5 **VarioWIN with pellet feed via suction system**
The 'classic' wood pellet heating system in a mini format

Whether in the classic boiler colours of red/grey or white – the VarioWIN looks great wherever it is installed.



Relaxed heating.

Wide range of VarioWIN variants.

This is how easy heating with wood pellets can be. Simply set the required room temperature, then you can leave the VarioWIN to get on with the job. It supplies your home with heat and comfort in an energy-saving and environmentally friendly way. You can select between different comfort and pellet supply variants according to your wishes:

Comfort classes	Exklusiv	Premium
Cleaning	Fully automated*	By hand
Pellet feed**	S – manual	D – direct
	P – pneumatic	
	D – direct	
Colour types	R = red/grey, W = white	R = red/grey, W = white

* With ash compression.

- ** S: Manual pellet loading (integrated hopper).
P: Pneumatic pellet feed with suction system and reserve supply container.
D: Direct pellet feed with unloading funnel for mounting to bulk hopper.

No boiler room is required.

Most heating solutions comprise of a heating circuit for radiators or underfloor heating as well as a hot water circuit. All the necessary heating components such as the pumps and mixing valves can be integrated inside the VarioWIN.

If heating is supplied to several heating zones or from additional generators (e.g solar) then an external system distributor will be required.





Everything under control.

MES Modular Energy System.

MES takes over the entire heat management of the heating system. It controls and optimises heat production and distribution matched precisely to requirements. Its modular design ensures the heating system can be expanded at any time.

REG standard control unit.

The REG standard control units offer a high level of control and operating convenience for one heating and one hot water tank circuit. The heating circuit cannot later be extended, and no further combinations are possible.



Digital MES
User module



Analogue MES
User module



Analogue REG
User module

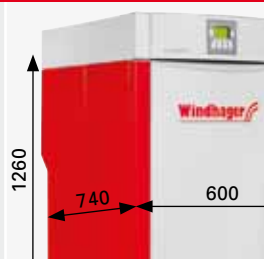
The VarioWIN can be turned into a full system solution at anytime.

If you want to use thermal energy efficiently you need more than just an effectively functioning boiler. All other components such as hot water cylinder, additional heat sources and the control system all play an important role. WINDHAGER can provide everything that you need, for a turnkey solution. This gives you the security of knowing that everything will fit together and all the components are perfectly matched. As a result the VarioWIN can easily be combined and is excellently prepared for use together with additional heat sources such as solar thermal.



The secret is in the technology.

Can be installed anywhere. 1



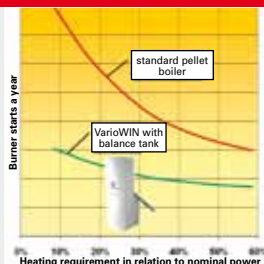
The **compact design** of the VarioWIN makes it possible to install it easily anywhere from the cellar to the attic. The VarioWIN can be installed in any room (e.g. hobby room or store-room).

The advantages for you:

- ✓ Can be installed in the cellar or on any floor of the house.
- ✓ Minimum space requirement with 0.44 m² floorspace.
- ✓ Easy to deliver weighing only 150 kg.

Hydraulic and safety components can be integrated, such as the heating pump, motorised mixing valve, expansion vessel, hot water pump, safety valve and pressure gauge – saving time and money. 2

Balance tank. 3



When combined with the flange-mounted balance tank, the VarioWIN offers a particularly efficient, space-saving and cost-effective solution for very low heating requirements (in passive and very low energy buildings).

The advantages for you:

- ✓ Flexible provision of heat (between 0 and 12 kW).
- ✓ No extra piping, controls or loading pump.
- ✓ Reduction in number of burner starts and electric energy consumed.
- ✓ Optimised system efficiency thanks to the new function and compact design (45 l).
- ✓ Installation space required: 0.44 m², room height: 1.9 m.

Burner technology tried and tested countless times for the best combustion results, even in the smallest power range and with changing fuel characteristics. 4



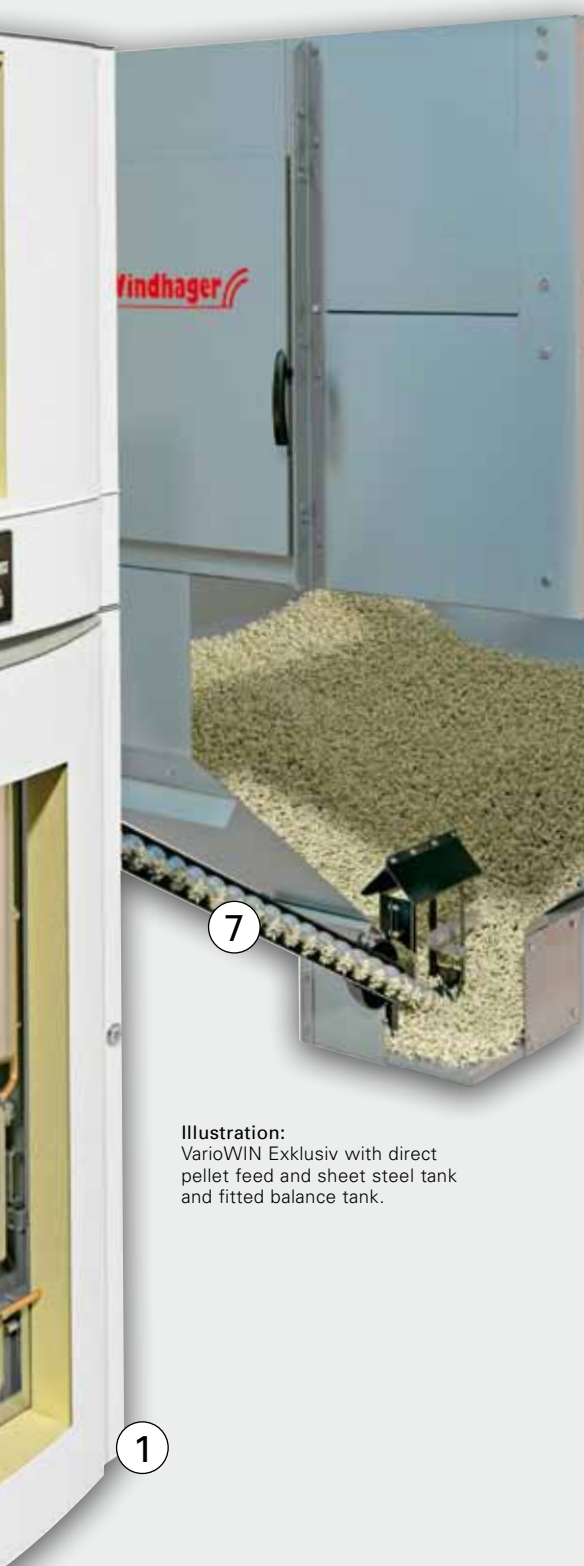


Illustration:
VarioWIN Exklusiv with direct
pellet feed and sheet steel tank
and fitted balance tank.

5 Fully automatic cleaning.



VarioWIN Exklusiv has ingenious, **fully automatic techniques for boiler cleaning** which reduce maintenance and cleaning work to a minimum.

The advantages for you:

- ✓ Fully automatic burner bowl ash removal.
- ✓ Fully automated heating surface cleaning ensures a continuously high degree of efficiency.
- ✓ Fully automatic ash compression for extending the cleaning intervals.

6 The **InfoWIN** operating unit integrated in the boiler as standard displays all the VarioWIN operating information at the push of a button.

7 Flexible pellet feed solutions.



The variable installation options of the VarioWIN mean that flexible supply solutions are also possible. WINDHAGER offer three options for pellet feed:

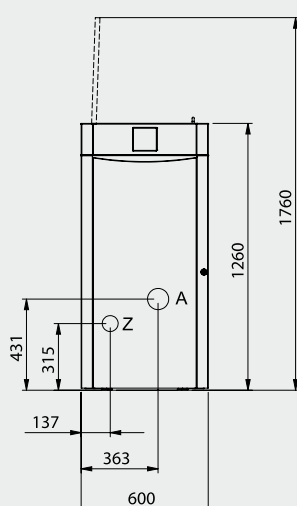
1. **Manual loading** from bags into the integrated hopper.
2. **Pneumatic feed** using the patented pellet suction system, especially for longer distances between the VarioWIN and the pellet store.
3. **Direct feed in the form of a pellet metering auger** is a particularly practical and inexpensive method. A suitable sheet steel tank can be added.

8 Prepared for external combustion air supply for operation independent of room air.

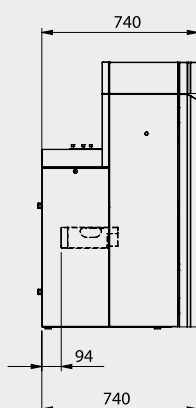
Warmth when you need it.

Dimensional sketches.

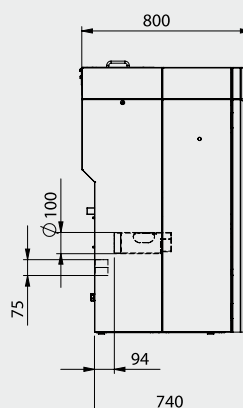
Front view



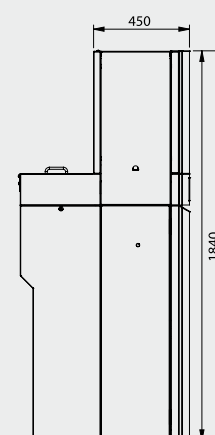
Side view
direct pellet feed



Side view
pneumatic feed or
manual pellet loading



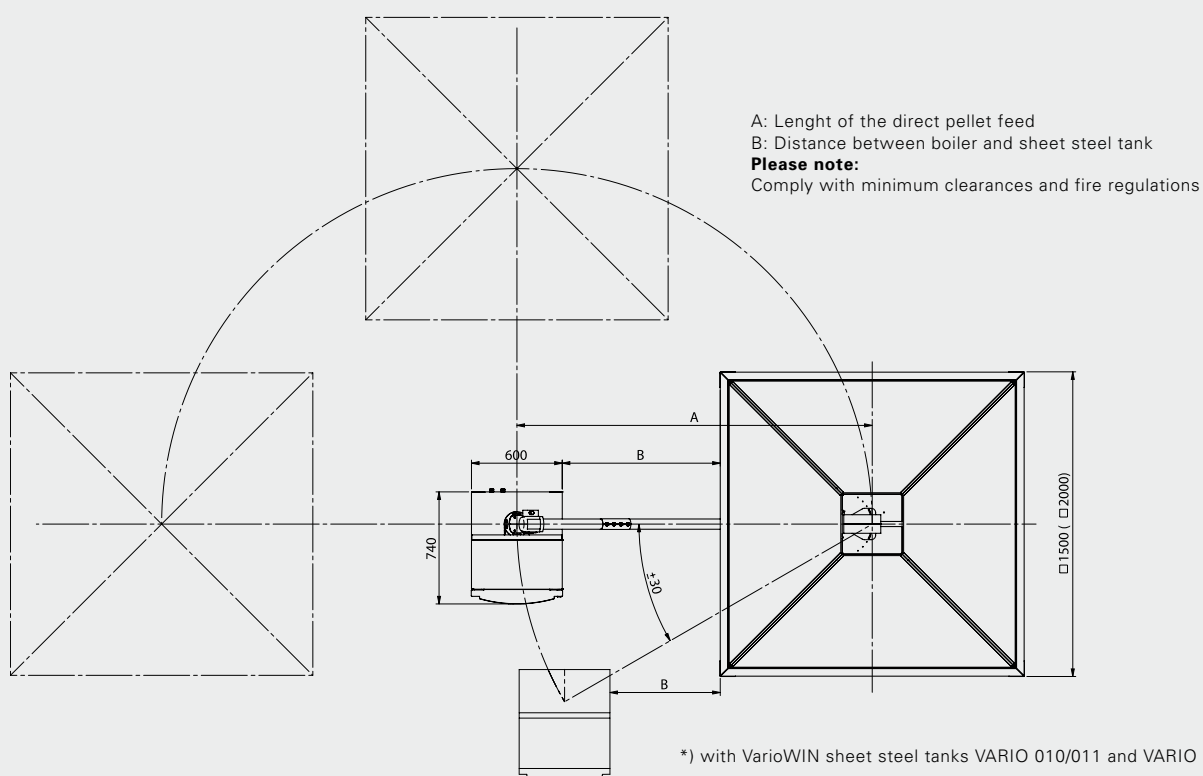
Side view
with balance tank



All dimensions in mm.

A . . . Flue gas
Z . . . Air supply

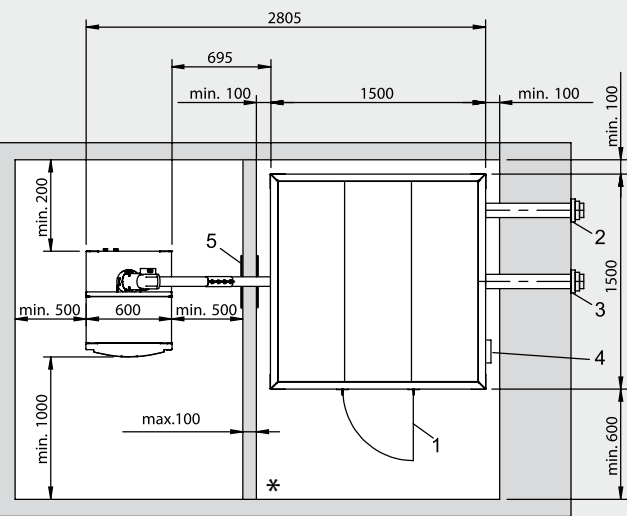
Variable installation options for the storage room.*



*) with VarioWIN sheet steel tanks VARIO 010/011 and VARIO 020/021



Minimum clearances VarioWIN and sheet steel tanks.

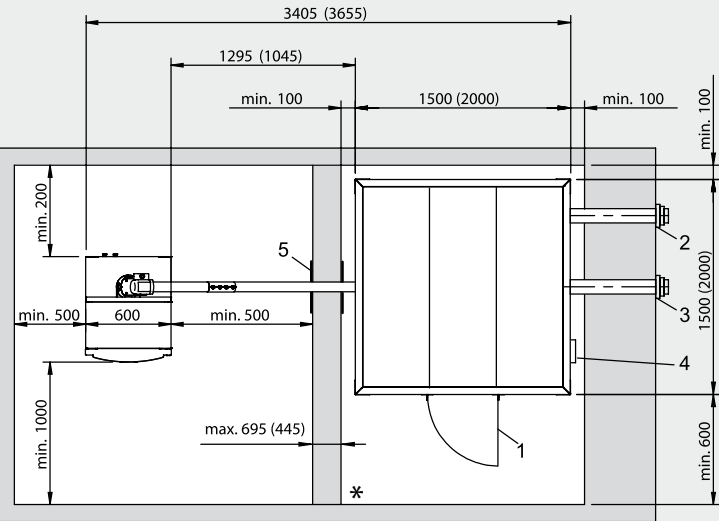


Sheet steel tank 1.5 x 1.5 m Lenght of direct pellet feed 2.0 m

Must comply with fire prevention regulations.
All dimensions in mm.

1 Inspection door
2 Return air coupling
3 Filling coupling
4 Ventilation flap with inspection hole
5 Cover plate – VARIO 005

*) Dividing wall:
For Germany: Not needed.
For Austria/Switzerland: Only if with a space of less than 1m



Sheet steel tank 1.5 x 1.5 m or 2.0 x 2.0 m Lenght of direct pellet feed 2.5 m

Must comply with fire prevention regulations.
All dimensions in mm.
Dimensions in brackets for sheet steel tank 2.0 x 2.0 m.

1 Inspection door
2 Return air coupling
3 Filling coupling
4 Ventilation flap with inspection hole
5 Cover plate – VARIO 005

*) Dividing wall:
For Germany: Not needed.
For Austria/Switzerland: Only if with a space of less than 1m

Technical data			
Type		VA_120 P/S	VA_120 D
Pellet feed		pneumatic / by hand	direct
Fuel		wood pellets acc. ÖNORM M7135 or DINplus or EN 14961-2	
Nominal thermal output range	kW	3.6 – 12	3.6 – 12
Pellets reserve supply container	kg	~ 37	~ 2.000 bis ~ 3.900
Boiler dimensions W x D x H	mm	600 x 800 x 1260	600 x 740 x 1260
Sheet steel tank dimensions	m	none	1.5 x 1.5 x 1.9/2.15 2.0 x 2.0 x 1.9/2.15
Net weight boiler	kg	~ 170	~ 150
Flue connection diameter	mm	100	100
Power input heating operation	W		
rated load		49.6	49.6
part load		26.8	26.8

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Windhager offers more than first-class products:

Quality consulting from our expert partners.

You can obtain WINDHAGER ZENTRALHEIZUNG products from our expert PARTNERS. Our partners are experienced heating specialists who work in close professional cooperation with WINDHAGER ZENTRALHEIZUNG to achieve the best results for our customers.

Professional customer service network.

Perfect customer service is one of the mainstays of WINDHAGER's success. Our professional customer service network guarantees the best customer care every day. Our customer service technicians are experienced professionals who work quickly and reliably.



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