

# COMBI BOILERS

6 – 60 kW

**HARGASSNER**  
BIOMASS HEATING TECHNOLOGY



[hargassner.com](http://hargassner.com)



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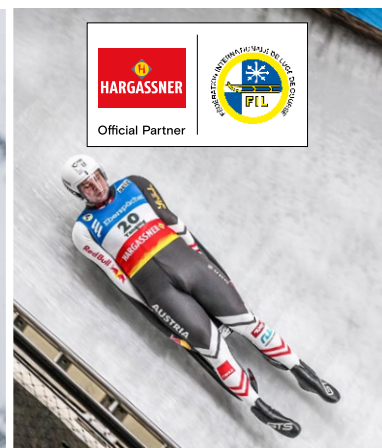
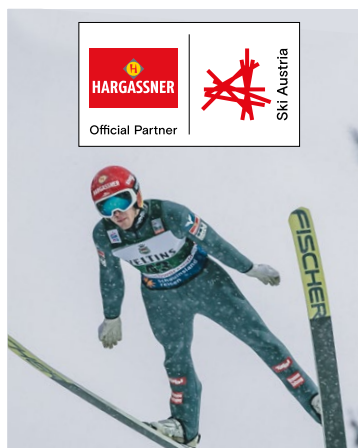
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## Winter sport is our passion!

The fire burns in our eyes. Not just because we build sustainable biomass heating systems, but also because we are passionate sports fans. While it was once Anton Hargassner sr. himself who daringly pushed himself off the ski jump beam at a young age, he later kindled this fire for sport in Anton jr. and Markus Hargassner as well. This passion still burns in the Hargassner family today and the values of sport therefore also actively shape Hargassner's corporate culture. The "Hargassner Sport Family" unites this enthusiasm for sports, from youngsters to professionals, and shares it with the international fan community.

If you would like to be kept informed and experience first-hand everything that is going on in the world of the "Hargassner Sport Family", please follow them on their Facebook & Instagram social media channels. **#hargassnerfamily**  





## Our corporate values are characterised by **harmony between nature and satisfied customers**

Hargassner. Since 1984, as a pioneer in automated biomass heating systems, we have endeavoured to stand by our customers as a reliable partner – with trustworthiness from Innviertel. We have now grown into an internationally successful company with a pronounced spirit of innovation.

- ✓ Over **39 years of experience**
- ✓ **170,000 customers** worldwide
- ✓ **75,000 m<sup>2</sup> company floor space**
- ✓ More than **1,200 employees** at several locations
- ✓ **Export to 43 countries**
- ✓ **International awards**



Managing directors (left to right)  
Markus & Anton jr. Hargassner



# Heating with wood log and pellets

## Advantages

- ✓ **Lower costs than oil or gas**
- ✓ **Crisis-resistant**, because locally sourced
- ✓ **Short transportation**
- ✓ **Value creation process remains in the region**
- ✓ **Efficient and energy saving**
- ✓ **High calorific value**

**Environmentally friendly.** Wood fuels are CO<sub>2</sub> neutral. In general, the cleaner combustion results in a CO<sub>2</sub> reduction compared to heating oil.

**Domestic economy.** The use offers a future-proof market for local companies and secure jobs in the region.

**Efficient.** Low fuel costs and highly efficient boiler technology makes a wood log combination attractive not only for forest owners.

**Independent.** There is a high degree of independence due to the supply from domestic forests. Control over the production process is entirely domestic.



## Wood log facts

**1/2 metre:** EN ISO 17225-5:2014, class A1-B, L50  
**1 metre:** EN ISO 17225-5: 2014 class A1-B, L100  
**Size:** Ø 10 cm on average for 1/2 m  
**Water content:** < 20%  
**Calorific value:** 4.4 kWh/kg

## Pellets facts

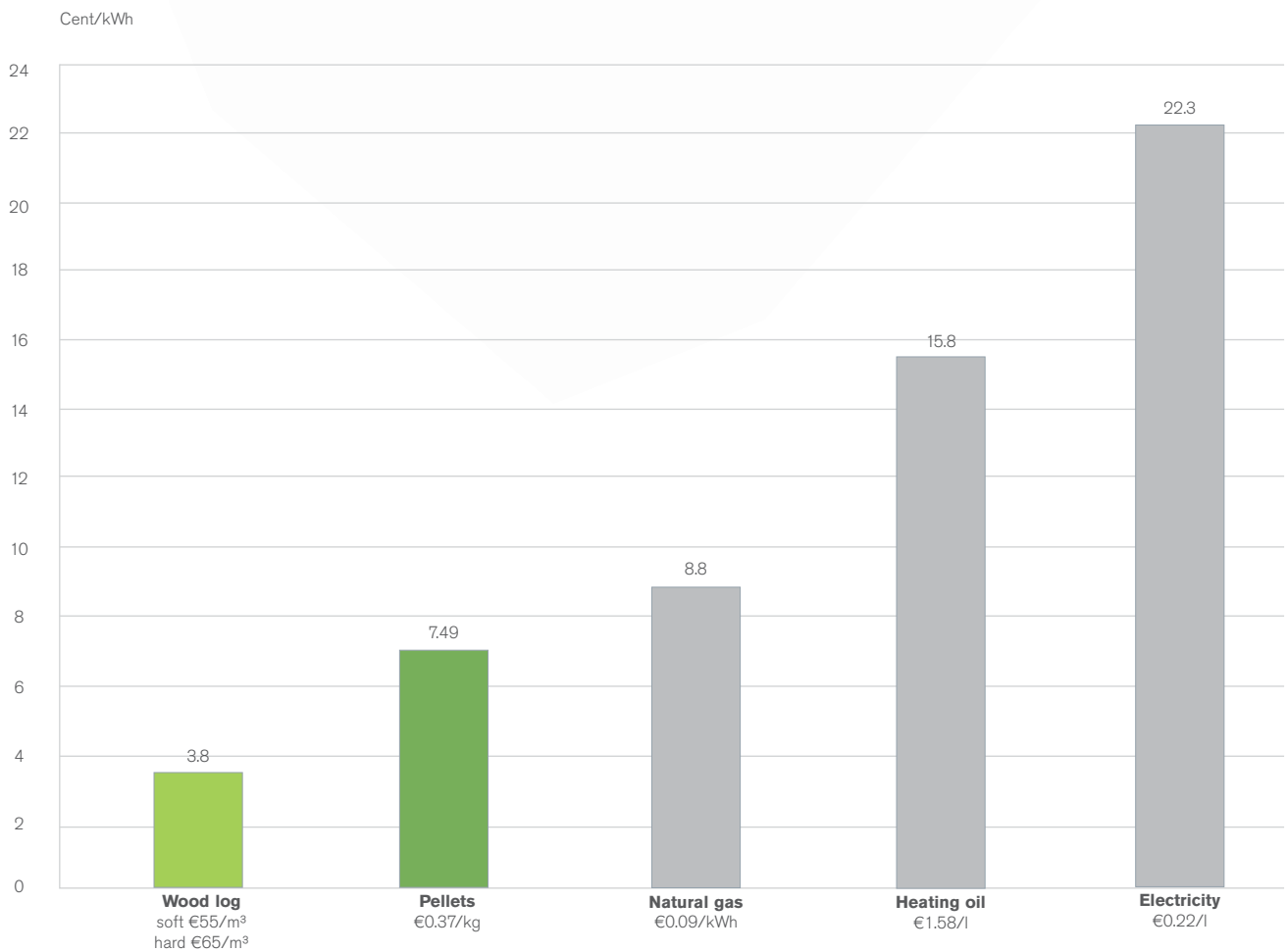


**Standards:** EN ISO 17225-2, ÖNORM 7135, class A1  
**Density:** 650 kg/m<sup>3</sup>  
**Ø / length:** 6 mm / approx. 5–40 mm  
**Water content:** w < 10%  
**Calorific value:** 4.8–4.9 kWh/kg



### The best alternatives to oil and gas – annual heating cost savings\*

Comparing the costs of individual fuels down into cents per kilowatt hour reveals an astonishing picture:



\* Last updated 06/2022 Sources: Gas: e-control, heating oil: IWO, pellets: Genol and proPellets Austria.

# The variety of our combi boilers

## SMART HV SMART PK

17 – 23 kW + 17 – 32 kW

- Wood log/pellet combi boiler with lowest purchase costs

For details, see p. 10



## SMART HV NANO PK

17 – 23 kW + 6 – 32 kW

- Suitable for the pellet boiler operator with occasional wood log operation

For details, see p. 12



### Perfect heating

Hargassner has been a pioneer in biomass heating technology for many years, giving it an advantage in expertise which has already resulted in enormous technological advances in the combination of wood log and pellet boilers. The best ideas and solutions in terms of both the design and the control strategy produce the best results. High levels of comfort, best quality and long lifetime characterise the Hargassner brand and its products.



## NEO HV SMART PK

20–60 kW + 17–32 kW

- Suitable for the wood log boiler operator with occasional pellet operation

For details, see p. 14



## NEO HV NANO PK

20–60 kW + 6–32 kW

- Wood log heating with full pellet comfort for premium customers

For details, see p. 16



- ✓ **Highest controllability** and **maximum efficiency**
- ✓ **Fuel supply security** for the future
- ✓ **Two separate, efficient heat exchanger systems** for just one chimney
- ✓ **Fully automatic changeover**





## Combinable **wood log boilers**

**NEO HV**  
20 – 60 kW

All the technical details have been optimised for the Neo-HV, which has made operating and maintaining the boiler considerably easier. A separate premium package increases the Hargassner operating comfort to a maximum.\*

- ✓ **Filling chamber size for ½ m logs**
- ✓ **State-of-the-art combustion control**
- ✓ Automatic **boiler cleaning device**
- ✓ **Touch display** for convenient adjustment
- ✓ Standard **filling chamber lighting**



**SMART HV**  
17 – 23 kW

The Smart-HV impresses with its compact size, its functionality and of course its excellent price-performance ratio. The ingenious gasification technology comes from its exclusive brother – the Neo-HV.\*

- ✓ **Filling chamber size for ½ m logs**
- ✓ **Sophisticated wood gasification technology**
- ✓ **Smoke-free refilling**
- ✓ **Easy filling**







## OTHER COMBINATION POSSIBILITIES!

Every Hargassner boiler can be combined with a second system. Wood chip or larger system combinations are also possible. If you are interested, your Hargassner commissioning engineer company will be happy to advise you on site.

## Combinable **pellet boilers**

### **NANO PK** 6 – 32 kW

The low-temperature boiler is equipped with the latest heating technology for economical heating requirements. The boiler series is particularly suitable for detached or semi-detached houses with minimum space such as in houses without a cellar.\*

- ✓ **Low-temperature boiler as of 40°C**
- ✓ **Simple installation**  
Maintenance openings at the front and top
- ✓ **Automatic pellet filling**  
from the week hopper or pellet store
- ✓ **Integrated hydraulic modules**



### **SMART PK** 17 – 32 kW

Manual filling enables sensational price-performance ratio and individual control over fuel filling. The hopper allows a continuous burning time of up to 10 days.\*

- ✓ **Compact design**
- ✓ **Pellet day hopper** 174 kg
- ✓ **Easy filling** with bags of pellets





# SMART HV + SMART PK

17 – 23 kW + 17 – 32 kW




This cost-efficient Hargassner solution consists of a Smart-HV wood log boiler and a Smart-PK pellet boiler that are both filled manually. The heat exchanger is also cleaned manually. If the wood log boiler is empty, the system will automatically switch to pellets. This combi option can run for up to ten days without being refilled.

- ✓ **Cost-effective**
- ✓ **Automatic switch** to pellets
- ✓ **Simple, manual filling**  
of both boilers
- ✓ **Up to 10 days of heating** without refilling



Smart-HV 17 – 23 + Smart-PK 17 – 32

## Application areas

-  Detached houses
-  Semi-detached houses
-  For frugal customers with low purchase costs

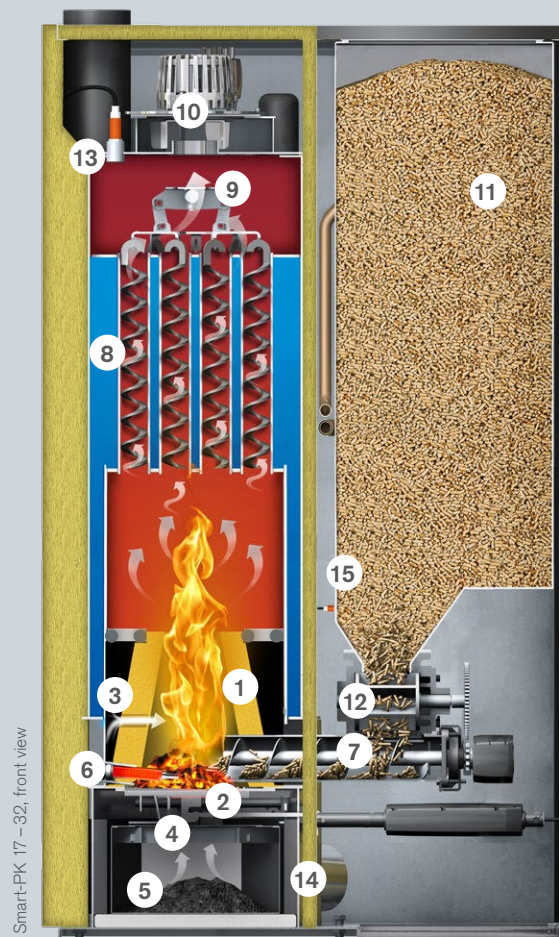
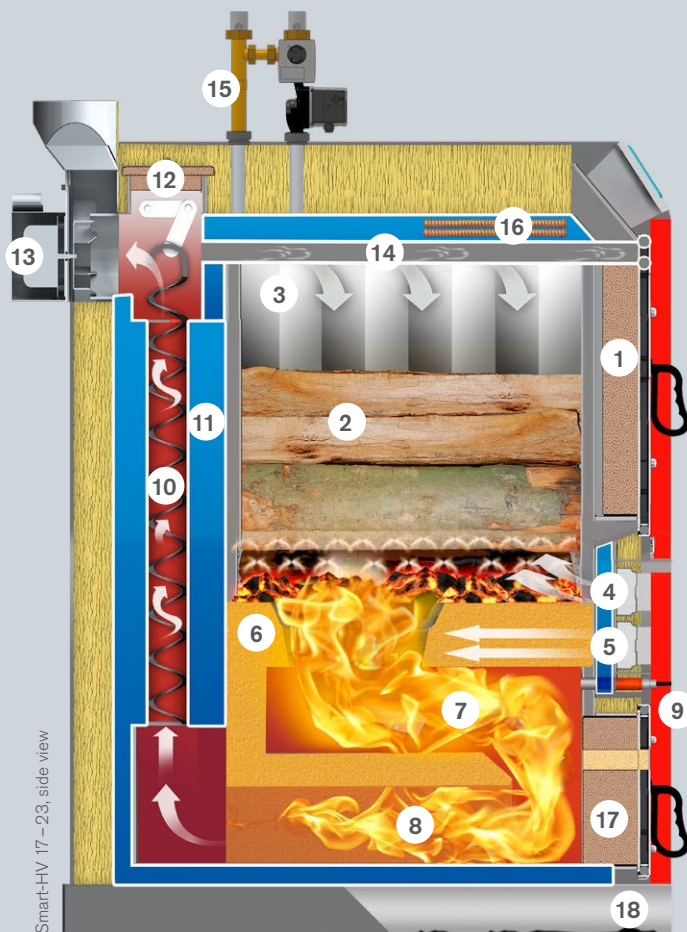
- ⊕ — HxWxD = 1,200x600x900mm (Smart-HV 17 – 23)
- ⊕ — HxWxD = 1,520x1,080x650mm (Smart-PK 17 – 32)
- ⊕ — Energy efficiency class **A+**
- ⊕ — Efficiency of up to 96%
- ⊕ — 5-year warranty

# Combination system with perfect price-performance ratio

## Smart-HV 17-23 + Smart-PK 17-32

- 1 Large filling door
- 2 Filling chamber for 1/2m logs (up to 53 cm)
- 3 Combustion chamber lining – prevents tar formation
- 4 Primary air motor
- 5 Secondary air motor
- 6 High-quality, massive refractory-lined combustion chamber
- 7 High-temperature burnout zone
- 8 Ash separation zone
- 9 Lambda sensor
- 10 Turbulators
- 11 Heat exchanger
- 12 Manual boiler cleaning device
- 13 Exhaust fan
- 14 Top smoulder gas ventilation
- 15 Optional back-end protection
- 16 Cooling coil for thermal safety circuit
- 17 Cleaning door
- 18 Ash pan

- 1 Fully refractory-lined combustion chamber
- 2 Sliding grate
- 3 Secondary air stream with inlet openings
- 4 Primary air
- 5 Ash pan
- 6 Automatic ignition with 300W
- 7 Stoker auger
- 8 Heat exchanger
- 9 Turbulators with manual heat boiler cleaning system
- 10 Exhaust fan
- 11 Pellet day hopper
- 12 Metering rotary valve
- 13 Lambda sensor
- 14 Air connection AIO / ADO
- 15 Fill level indicator





## SMART HV + NANO PK

17 – 23 kW + 6 – 32 kW




This option consisting of the Nano-PK pellet boiler with an automatic heat exchanger cleaning system and a fuel extraction system in combined with a Smart-HV wood log boiler is distinguished by its small, compact design. The pellets are automatically suctioned out of their storage room and into the hopper. This combi option can run completely automatically over an extended period of time.

- ✓ **Automatic heat exchanger cleaning** in the pellet boiler
- ✓ Longer **automatic operating duration**
- ✓ Pellets are automatically suctioned into the hopper



Smart-HV 17 – 23 + Nano-PK 6 – 15

### Application areas

-  Detached houses
-  Semi-detached houses
-  For pellet boilers with occasional wood log operation

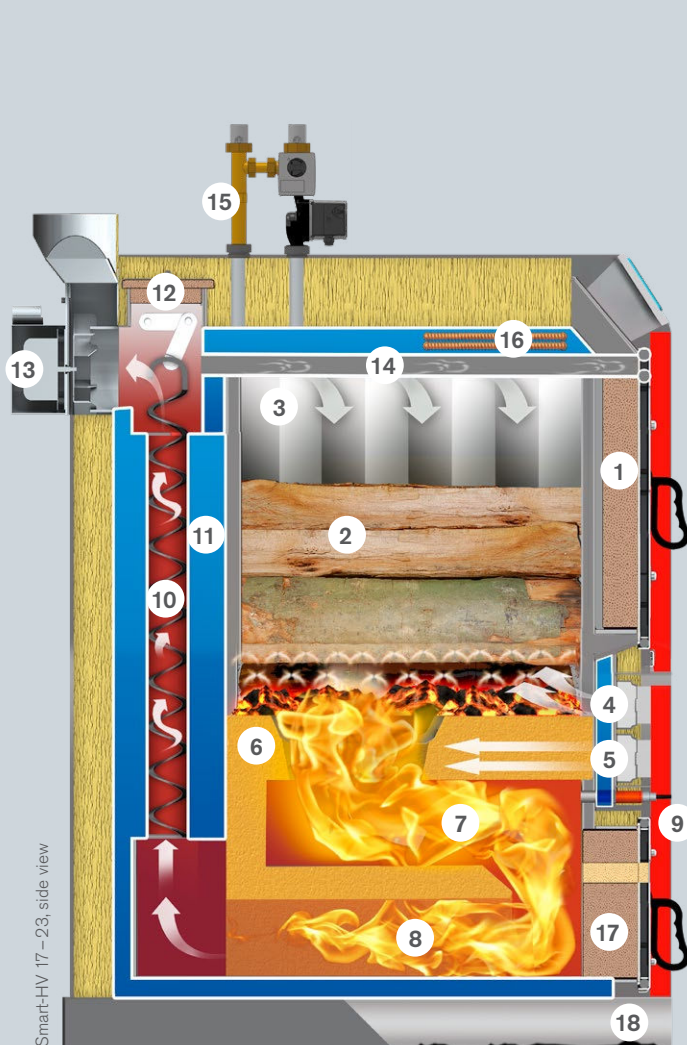
- ⊕ — HxWxD = 1,200x600x900mm (Smart-HV 17–23)
- ⊕ — HxWxD = 1,350x780x580mm (Nano-PK 6–15)
- ⊕ — Energy efficiency class **A+**
- ⊕ — Efficiency of up to 96 %
- ⊕ — 5-year warranty

# The combi system for pellet boilers

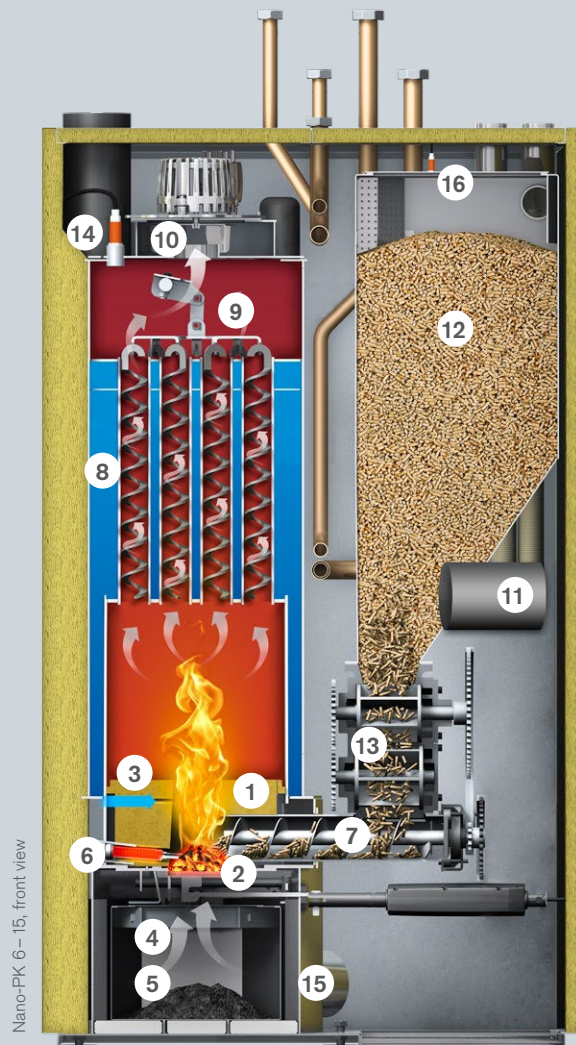
## Smart-HV 17–23 + Nano-PK 6–32

- 1 Large filling door
- 2 Filling chamber for ½m logs (up to 53 cm)
- 3 Combustion chamber lining – prevents tar formation
- 4 Primary air motor
- 5 Secondary air motor
- 6 High-quality, massive refractory-lined combustion chamber
- 7 High-temperature burnout zone
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- 7 Stoker auger
- 8 Heat exchanger
- 9 Turbulators with autom. boiler cleaning system
- 10 Exhaust fan
- 11 Pellet vacuum turbine
- 12 Pellet day hopper
- 13 Metering double rotary valve
- 14 Lambda sensor
- 15 Air connection AIO / ADO
- 16 Fill level indicator



Smart-HV 17–23, side view



Nano-PK 6–15, front view



## NEO HV + SMART PK




20 – 60 kW + 17 – 32 kW

This combination consisting of the automatic Neo-HV wood log boiler with a large filling chamber and the Smart-PK pellet boiler with manual filling and a long filling interval of up to a week guarantees maximum heating convenience. The wood log boiler is ignited automatically when the accumulator can no longer cover the heat demand. If the wood log boiler is empty, the system will automatically switch to pellets. This combi option can run for up to ten days without being refilled.

- ✓ **Automatic wood log operation**
- ✓ **Automatic switch** to pellets
- ✓ 10 days of heating without refilling



### Application areas

-  Detached houses
-  Semi-detached houses
-  For wood log boilers with occasional pellet operation

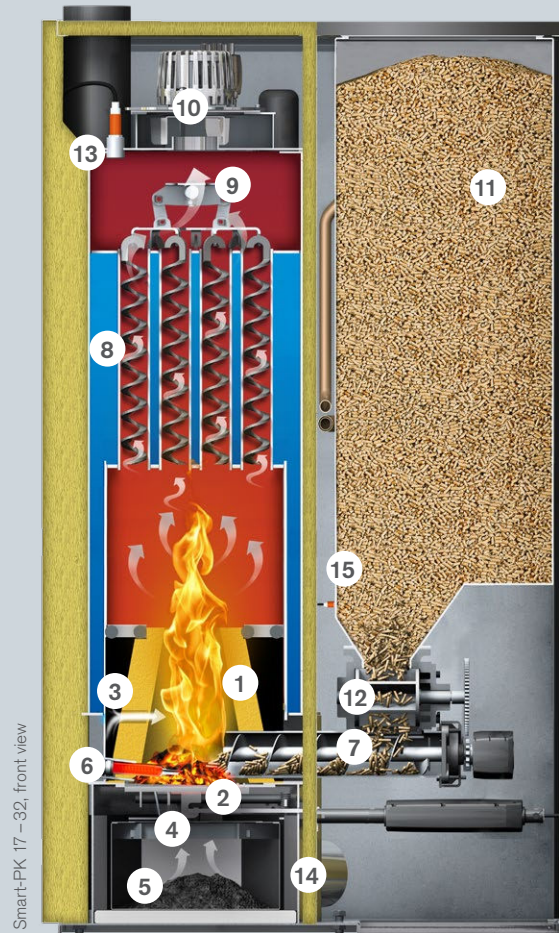
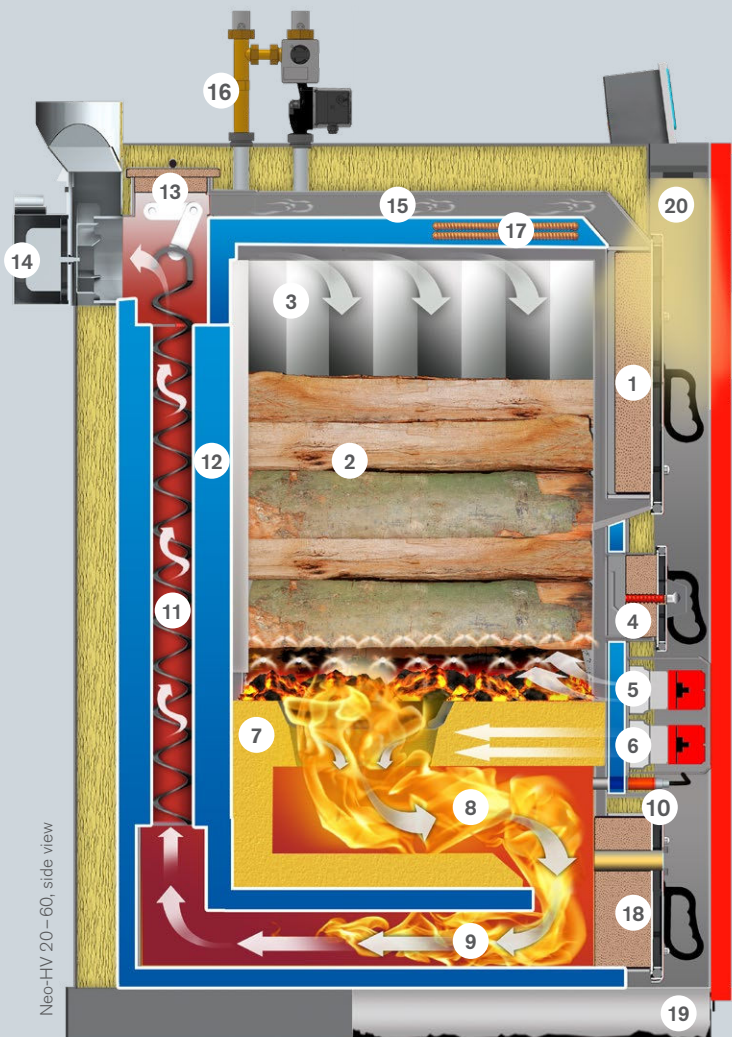
- ⊕ — HxWxD = 1,665x660x1,310mm (Neo-HV 20-30)
- ⊕ — HxWxD = 1,520x1080x650mm (Smart-PK 17-32)
- ⊕ — Energy efficiency class **A+**
- ⊕ — Efficiency of up to 96%
- ⊕ — 5-year warranty

# The combi boiler for wood log boilers

Neo-HV 20–60 + Smart-PK 17–32

- 1 Large filling door
- 2 Large filling chamber for ½ m logs (up to 60cm)
- 3 Combustion chamber lining – prevents tar formation
- 4 Heat-up door with automatic ignition (optional)
- 5 Primary air motor
- 6 Secondary air motor
- 7 High-quality, massive refractory-lined combustion chamber
- 8 High-temperature burnout zone
- 9 Ash separation zone
- 10 Lambda sensor
- 11 Turbulators
- 12 Heat exchanger
- 13 Autom. boiler cleaning system
- 14 Exhaust fan
- 15 Top smoulder gas ventilation
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- 1 Fully refractory-lined combustion chamber
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## NEO HV + NANO PK

20 – 60 kW + 6 – 32 kW

This combi option is impressive because it consists of the Neo-HV wood log boiler boasting a large filling chamber and the Nano-PK pellet boiler with an automatic heat exchanger cleaning system and an innovative fuel extraction system. The wood log boiler is ignited automatically when the accumulator can no longer cover the heat demand. If the wood log boiler has not been filled, the system will switch to the pellet boiler. The pellets are suctioned out of their storage room and into the hopper.

- ✓ **Autom. boiler cleaning system**
- ✓ Optional **automatic ignition**
- ✓ **Touchpad operation**
- ✓ **Fully refractory-lined high-performance combustion chamber**  
for optimum post-combustion
- ✓ **One control unit for both boilers**

### Application areas

-  Detached houses
-  Semi-detached houses
-  Fully automatic combi boiler for premium customers



Neo-HV 20 – 60 + Nano-PK 6 – 15

- ⊕ — HxWxD = 1,665x660x1,310 mm (Neo-HV 20 – 30)
- ⊕ — HxWxD = 1,350x780x580 mm (Nano-PK 6 – 15)
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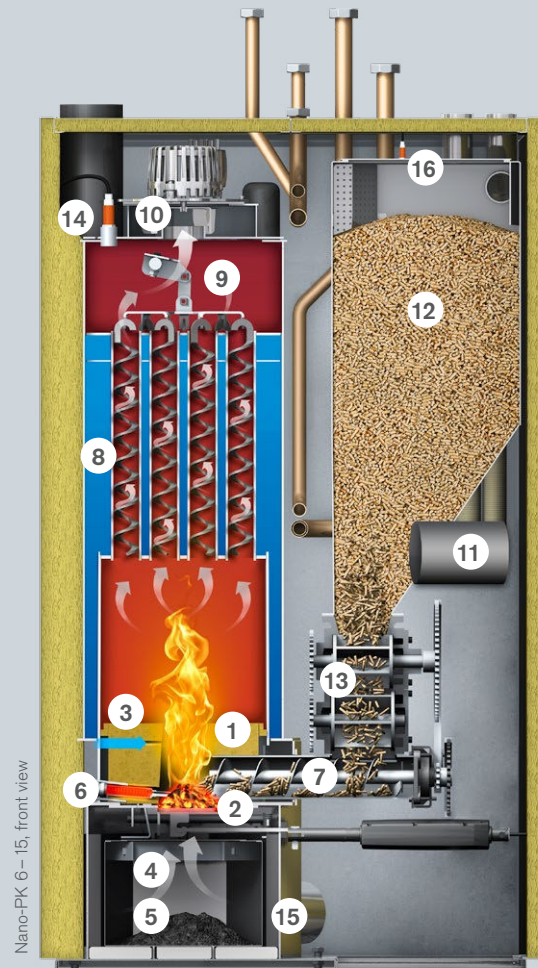
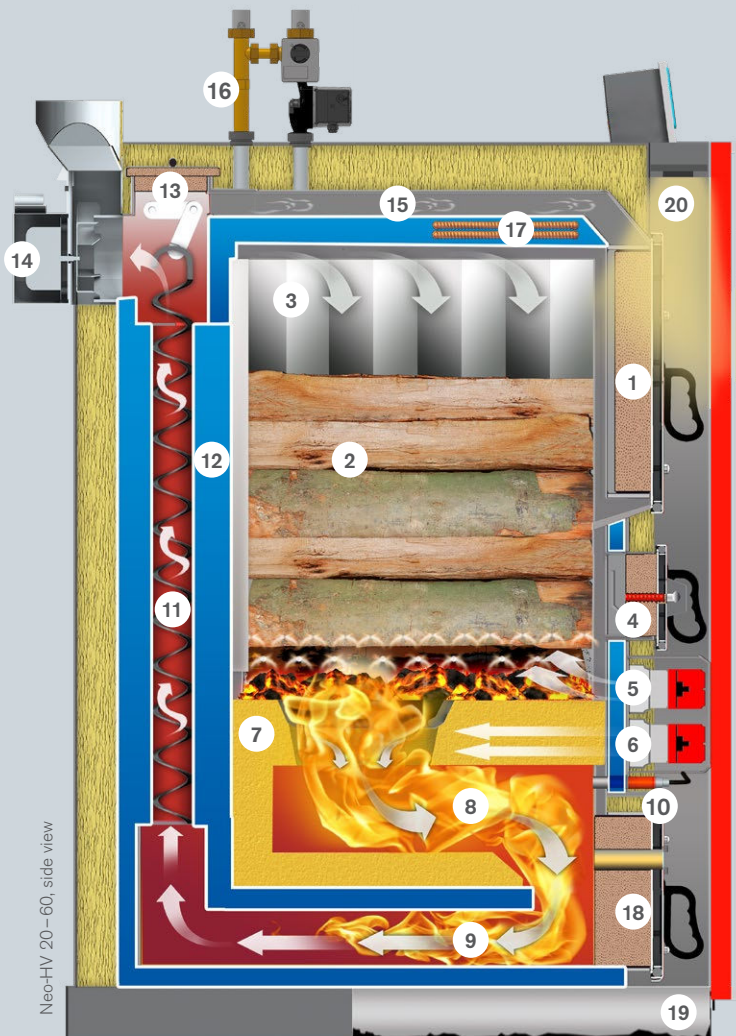


# The combi boiler for premium customers

## Neo-HV 20-60 + Nano-PK 6-32

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Hargassner has control programmes for all boiler series; these programmes are all clearly arranged and easy to use. They provide a convenient way to control heat circuits and hot water.

## Maximum operating convenience



### Hargassner Lambda Touchtronic

The Hargassner Lambda Touchtronic is distinguished by an exceptionally simple design and the fact that the Nano-PK and Neo-HV boiler series are very easy to operate. It will control your entire heating system, from the transport of the fuel to the combustion to the heat circuits and hot water tanks. It is guided by weather conditions, so recognises changes in conditions as soon as they occur and is able to seamlessly adjust the boiler's output accordingly. As a result, the boiler is always running in the optimum output range, enabling you, the customer, to save both fuel and unnecessary costs.

## Effortless operation with the Smart-Line



### Hargassner Smart-Touch

The Smart boiler series is equipped with Hargassner's new Smart-Touch control unit. It is complemented by extra capacity for up to three mixed heat circuits and hot-water production, provided in the form of an additional board or a heat circuit module. This makes the new Smart-Touch control a perfectly tailored solution for the entire boiler system.

## Remote control via phone or tablet



### App for mobile heating control

The Hargassner app allows you to control the heating quickly and on the move and view information worldwide around the clock. The app immediately sends important information to the mobile end device via email or push message. This way, you know the status of the boiler at all times. (Requirements: Internet Gateway, smartphone with Android or iOS)



### Awarded the App-Award 2022

The Hargassner app picked up an excellent first place in the heating control app category in 2022. The "Deutsche Gesellschaft für Verbraucherstudien" (German company for consumer studies) investigated customer satisfaction and which apps could really inspire their users. Hargassner came out on top among 28 apps and thus received the App Award 2022.



### Internet Gateway

Required for app and WEB service. The Internet Gateway will establish a secure TLS-encrypted connection between your Hargassner boiler's control unit and the internet router. This way, you can safely access the heating system with your mobile device.



### Convenient remote controls

You want to change a setting on your boiler or see the current status – without going to your boiler room? No problem! The practical remote controls leave no operating wishes unfulfilled. They are simple, intuitive and boast a design that's perfectly tailored to your needs! Details of our analogue and digital (touch) remote controls can be found on our website [hargassner.com](http://hargassner.com)

### Control accessories for every need

Hargassner offers comprehensive accessory options. The Hargassner standard control covers the majority of the requirements in a modern house. However, if further heat circuits, solar panels, etc. are to be connected, additional boards and remote controls are available. The right solution for every requirement: for more information, visit our homepage or contact your Hargassner installation company.



### Smart home connections

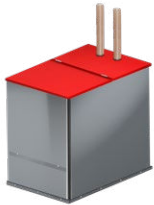
"Smart home" is an innovative way of controlling the management of energy in your home according to your needs. Hargassner has a connection ready for the most common home automation systems (Loxone, KNX, Mod-Bus, etc.). The benefits are clear. You save energy and costs and enjoy comfort and safety at the same time.



# STORAGE ROOM SOLUTIONS

## Week storages – small pellet stores for indoor use

There are two different week storages. The standard hopper has an optimal filling height and a large filling space; therefore, it is very convenient to fill with bags. The second hopper is specially developed for the combination with the Nano-PK pellet boiler and impresses with its tall, narrow design.



### Weekly storage

- 770 l filling volume
- for 500 kg pellets
- 770 x 1,150 x 1,090 mm
- Filling with bags



### Nano-PK weekly storage

- 340 l filling volume
- for 220 kg pellets
- 580 x 580 x 1,220 mm
- Filling with bags

## Bag silo – complete storage room system

Hargassner also offers a range of different types and sizes of bag silos for pellets – from 2 to 8.2 t storage capacity. You choose between a fixed (GWTS) or "growing" (GWT-MAX) solution.

- ✓ **Minimum space requirements**
- ✓ **Quick and easy to install**
- ✓ **Dust-tight, durable and antistatic filter fabric**
- ✓ **Protected against condensation**



## Underground tanks – for simply more space

Hargassner underground tanks (PET) are ready-made spherical storage rooms for underground use. By simply sinking them into the garden or driveway, they create open spaces in the house.

- ✓ **Creates an external pellet store**
- ✓ Ideal for **renovation projects** & new buildings
- ✓ **Concrete-free installation**
- ✓ **Can also be driven over**
- ✓ **Discreet cover** visible from above



## Point extraction – ideal for all room shapes

**No matter whether small, square or complexly shaped storage rooms, a point extraction system (RAPS) works everywhere.**

One or more flexible extraction points suck the pellets out of the storage room. For this purpose, sloping floors made of wooden boards with a 35 degree slope are installed beforehand. They guarantee good emptying towards the extraction points. If an area of the storage room is empty, the system switches manually or automatically to another extraction point. The auto changeover units (AUP) are available in two-, three-, four- or eight-fold versions and can even be used in small rooms without a sloping floor.

- ✓ **Ideal for small to complex rooms**
- ✓ **Bridges distances up to 20 m**  
between storage & boiler room
- ✓ **Makes optimal use of the room volume**
- ✓ **AUP saves costs**
- ✓ **Maximum comfort thanks to automatic changeover (AUP)**



---

## Fuel extraction auger – reliable for any size

**Thanks to the combinations of suction system and extraction auger (RAS), every pellet finds its way safely to the boiler.**

Fuel extraction augers show their robust strength in long storage rooms with space for an extraction motor. With the transport auger, the pellet quantity can be finely adjusted during transport. The suction system is completely emptied when it is switched off, thus avoiding overfilling jams. Sloping floors help with the optimal feed of pellets to the auger. It is even possible to combine two extraction augers, in which case an automatic changeover unit (AUP) is used to switch between them.

- ✓ **Ideal for long rooms**
- ✓ **Bridges distances up to 30 m**  
between storage & boiler room
- ✓ **Robust and reliable**
- ✓ **Optimal use of the room volume**
- ✓ **Auger lengths of 1.5 – 8 m**





## Accumulator systems for storing heat

Storing heat and excess energy from the heating water in the accumulator saves money. Depending on the model, they also heat the fresh water. The Hargassner storage systems are optimised for the key requirements of heat storage and hot water preparation.



### Universal heat storage tank – layered accumulators

Layered accumulators of the types SP, HSP, SP-FWS and their solar variants are all perfectly tuned to Hargassner heating systems. Your Hargassner heating company will plan the right version for you. The addition of a freshwater station or a heat circuit group to the models is provided. The "spread sheet" guarantees optimum temperature stratification and particularly efficient energy utilisation. This saves heating costs in the long run.

- ✓ **Optimised energy utilisation** in the accumulator
- ✓ **Insulation and hard casing**
- ✓ Suitable for **combination with solar**
- ✓ **Easy and flexible installation**, can be switched in parallel
- ✓ **Special storage tanks of up to 150,000 l**
- ✓ **Very little space required**

## Hargassner is the full-range supplier for biomass central heating systems.

Hydraulic components, accessories of all kinds are available extensively and in individual designs for all requirements. Precise coordination of the entire heating solution guarantees optimal cooperation of each individual component with each other. Additional information can be found in further product brochures or on [hargassner.com](http://hargassner.com) (also as download).



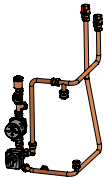
Find out more about our heating accessories at [hargassner.com](http://hargassner.com)

## Various heating components



### Substation, heat meter, freshwater station & heat circuit groups

Expandable hydraulic components for heat circuit groups, freshwater preparation, etc. are adapted to the Hargassner boilers. Their control functions are taken over exactly by the Hargassner control system on the boiler.



### Integrated hydraulic modules

A wide variety of design is available for the hydraulic modules of the Nano-PK and Smart-PK pellet boilers. All pumps, connections and piping are easily accessible and run upwards.



### Premium solar panels

As an ideal complement to biomass heating systems, Hargassner offers high-quality solar panels for the preparation of heating and hot water. They are available as flat-plate panels with high performance and a long lifetime, and they are available in reinforced versions for regions with high snow loads. The Hargassner Group also markets vacuum flat-plate panels globally.



### Back end protection

This provides automatic back-end protection for Hargassner wood log boilers while simultaneously loading an accumulator tank. A fully insulated back-end protection group that includes a return mixer and highly efficient accumulator loading pump can be installed quickly and easily and reduces installation time and costs.



### Combi flue pipe set

The high-quality flue pipe sets in various diameters made of stainless steel integrate all the necessary components such as bows, pipes, boiler collars, seals and clamp rings. Hargassner offers a suitable flue pipe set for each combi version, with which both boilers can be connected to one chimney.

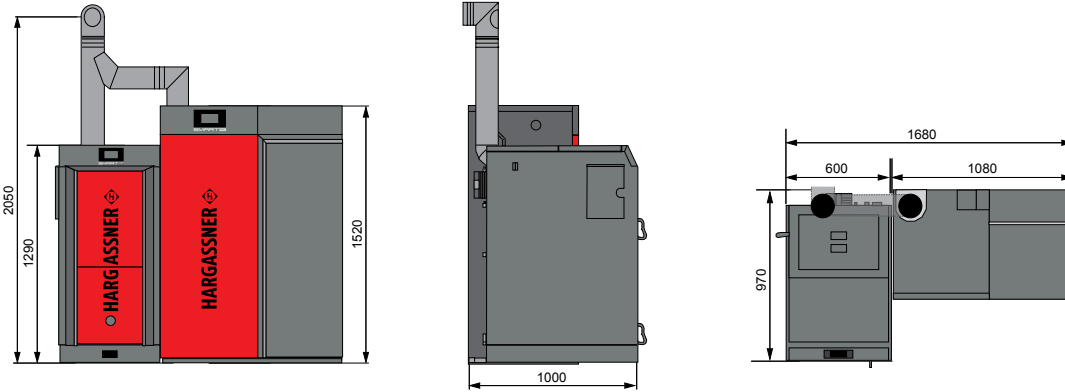


### OekoTube-Inside

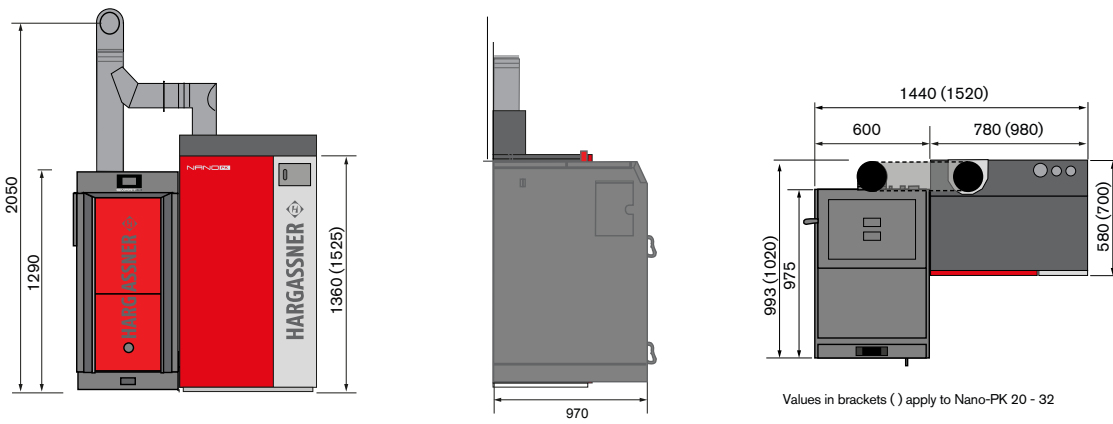
The OekoTube-Inside is an electrostatic micro-dust filter recognised by BAFA (Germany's Federal Office for Economic Affairs and Export Control) as an approved measure for reducing micro-dust levels. The filter is suitable for wood log & pellet boilers up to 60 kW.

# TECHNICAL DATA

**Smart-HV 17 – 23 &  
Smart-PK 17 – 32**

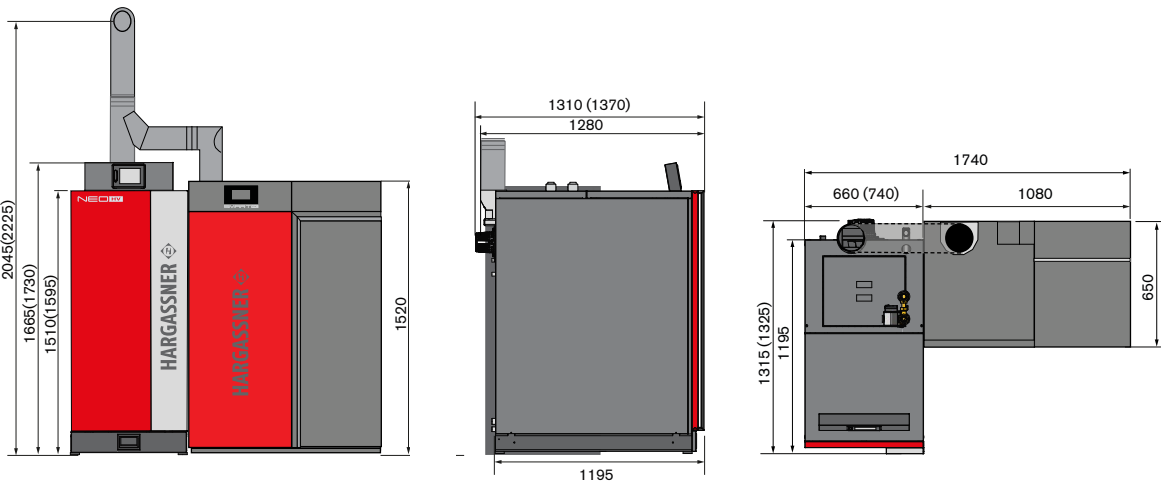


**Smart-HV 17 – 23 &  
Nano-PK 6 – 32**

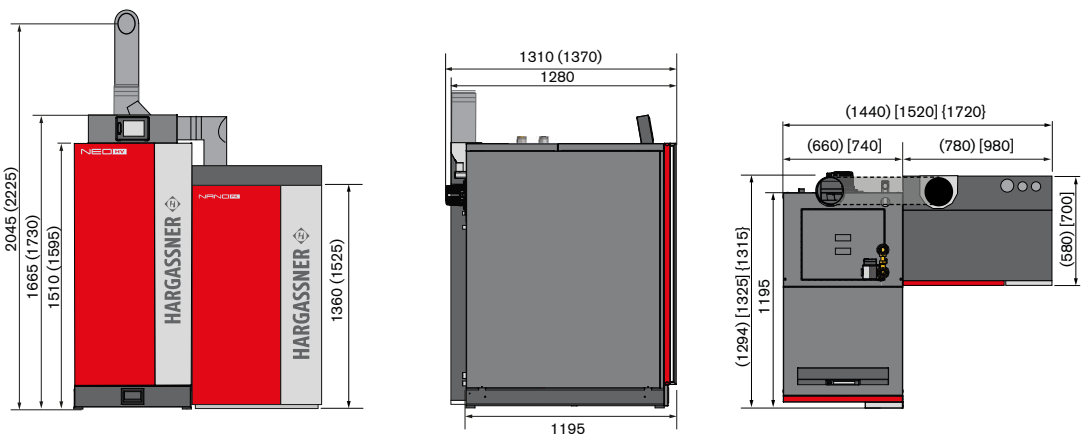


Values in brackets ( ) apply to Nano-PK 20 - 32

**Neo-HV 20 – 60 &  
Smart-PK 17 – 32**



**Neo-HV 20 – 60 &  
Nano-PK 6 – 32**



Values apply to Neo-HV 20 – 30 & Nano-PK 6 – 15  
Values in brackets ( ) apply to Neo-HV 40 – 60 & Nano-PK 20 – 32

Values in brackets ( ) apply to Neo-HV 20 – 30 & Nano-PK 6 – 15  
Values in brackets [ ] apply to Neo-HV 20 – 30 & Nano-PK 20 – 32  
Values in brackets { } apply to Neo-HV 40 – 60 & Nano-PK 20 – 32



| Smart-HV 17 – 23 & Smart-PK 17 – 32       |          |                                       |
|---|----------|---------------------------------------|
|   | Unit     | Smart-HV 17 – 23 & Smart-PK 17 – 32   |
| Nominal heating output                    | kW       | 17 – 23   17 – 32                     |
| Boiler height                             | mm       | 1,200   1,520                         |
| Boiler width                              | mm       | 600   1,080                           |
| Boiler depth                              | mm       | 900   650                             |
| Transport dimensions H / B / T            | mm       | 1,290 x 600 x 970   1,520 x 575 x 605 |
| Flue pipe diameter                        | mm       | 130   130                             |
| Connection Flow and return                | inches   | 6/4   5/4                             |
| Water content                             | l        | 72   42                               |
| Weight                                    | kg       | 400   290                             |
| Chimney connection height to the top/rear | mm       | 2,050   1,530                         |
| Boiler label                              | Category | A+ / A+                               |
| Composite label incl. control             | Category | A+   A+                               |

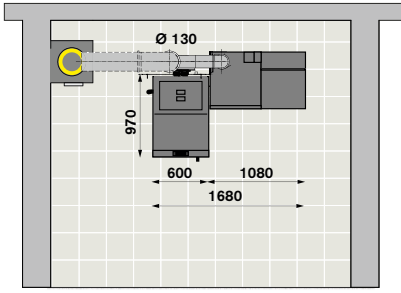
| Smart-HV 17 – 23 and Nano-PK 6 – 32 |          |                                       |                                       |
|-------------------------------------|----------|---------------------------------------|---------------------------------------|
|                                     | Unit     | Smart-HV 17 – 23 and Nano-PK 6 – 15   | Smart-HV 17 – 23 and Nano-PK 20 – 32  |
| Nominal heating output              | kW       | 17 – 23   6.6 – 15                    | 17 – 23   20 – 32                     |
| Boiler height                       | mm       | 1,200   1,350                         | 1,200   1,550                         |
| Boiler width                        | mm       | 600   780                             | 600   980                             |
| Boiler depth                        | mm       | 900   580                             | 900   700                             |
| Transport dimensions H / B / T      | mm       | 1,290 x 600 x 970   1,380 x 780 x 580 | 1,290 x 600 x 970   1,550 x 575 x 540 |
| Flue pipe diameter                  | mm       | 130   100                             | 130   130                             |
| Connection Flow and return          | inches   | 6/4   1                               | 6/4   5/4                             |
| Water content                       | l        | 72   24                               | 72   42                               |
| Weight                              | kg       | 400   220                             | 400   370                             |
| Boiler label                        | Category | A+   A+                               | A+   A+                               |
| Composite label incl. control       | Category | A+   A+                               | A+   A+                               |

| Neo-HV 20 – 60 and Smart-PK 17 – 32 |          |   |   |
|-------------------------------------|----------|---|---|
|                                     | Unit     | Neo-HV 20 – 30 and Smart-PK 17 – 32     | Neo-HV 40 – 60 and Smart-PK 17 – 32     |
| Nominal heating output              | kW       | 25.4 – 30   17 – 32                     | 40 – 60   17 – 32                       |
| Boiler height                       | mm       | 1,665   1,520                           | 1,730   1,520                           |
| Boiler width                        | mm       | 660   1,080                             | 740   1080                              |
| Boiler depth                        | mm       | 1310   650                              | 1370   650                              |
| Transport dimensions H / B / T      | mm       | 1,665 x 775 x 1,450   1,520 x 575 x 605 | 1,730 x 840 x 1,450   1,520 x 575 x 605 |
| Flue pipe diameter                  | mm       | 150   130                               | 150   130                               |
| Connection Flow and return          | inches   | 6/4   5/4                               | 6/4   5/4                               |
| Water content                       | l        | 137   42                                | 166   42                                |
| Weight                              | kg       | 700   290                               | 810   290                               |
| Boiler label                        | Category | A+ / A+                                 | A+ / A+                                 |
| Composite label incl. control       | Category | A+ / A+                                 | A+ / A+                                 |

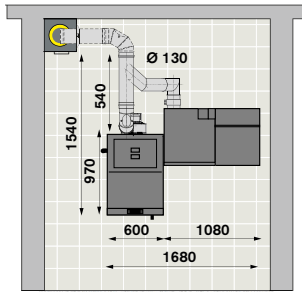
| Neo-HV 20 – 60 and Nano-PK 6 – 32 |          |   |   |   |
|-----------------------------------|----------|---|---|---|
|                                   | Unit     | Neo-HV 20 – 30 and Nano-PK 15           | Neo-HV 20 – 30 and Nano-PK 20 – 32      | Neo-HV 40 – 60 and Nano-PK 20 – 32      |
| Nominal heating output            | kW       | 25.4 – 30   4.5 – 15                    | 25.4 – 30   21.7 – 32                   | 40 – 60   21.7 – 32                     |
| Boiler height                     | mm       | 1,535   1,360                           | 1,535   1,525                           | 1,730   1,525                           |
| Boiler width                      | mm       | 660   780                               | 660   980                               | 740   980                               |
| Boiler depth                      | mm       | 1,310   580                             | 1,310   700                             | 1,370   700                             |
| Transport dimensions H / B / T    | mm       | 1,665 x 775 x 1,450   1,380 x 780 x 580 | 1,665 x 775 x 1,450   1,550 x 575 x 540 | 1,730 x 840 x 1,450   1,550 x 575 x 540 |
| Flue pipe diameter                | mm       | 150   100                               | 150   130                               | 150   130                               |
| Connection Flow and return        | inches   | 6/4   1                                 | 6/4   5/4                               | 6/4   5/4                               |
| Water content                     | l        | 137   24                                | 137   42                                | 166   42                                |
| Weight                            | kg       | 700   220                               | 700   370                               | 810   370                               |
| Min. draught                      | Pa       | 5                                       | 5                                       | 5                                       |
| Boiler label                      | Category | A+ / A+                                 | A+ / A+                                 | A+ / A+                                 |
| Composite label incl. control     | Category | A+   A++                                | A+ / A+                                 | A+ / A+                                 |

# DIFFERENT MODELS OF STORAGE ROOM

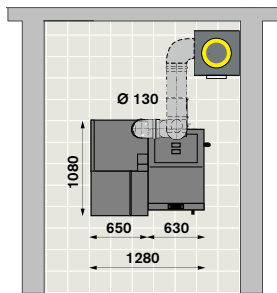
Smart-HV with Smart-PK on right, FP vert.



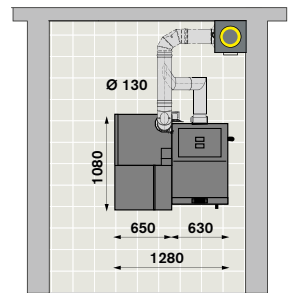
Smart-HV with Smart-PK on right, FP horiz.



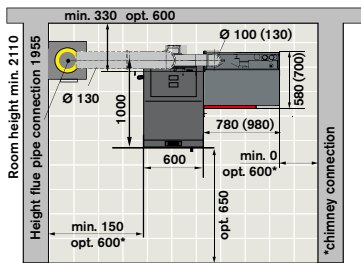
Smart-HV with Smart-PK on left, FP vert.



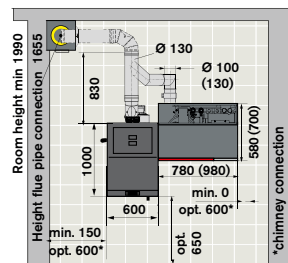
Smart-HV with Smart-PK on left, FP horiz.



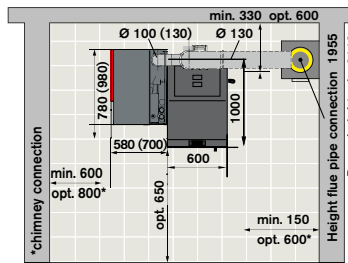
Smart-HV with Nano-PK on right, FP vert.



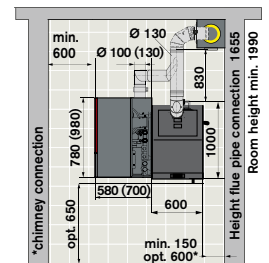
Smart-HV with Nano-PK on right, FP horiz.



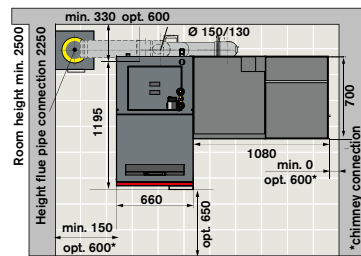
Smart-HV with Nano-PK on left, FP vert.



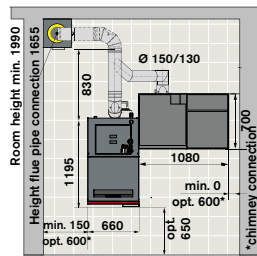
Smart-HV with Nano-PK on left, FP horiz.



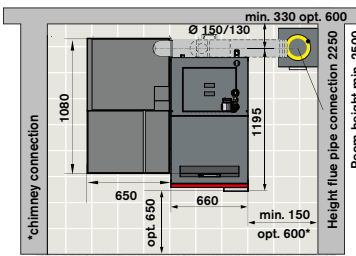
Neo-HV with Smart-PK on right, FP vert.



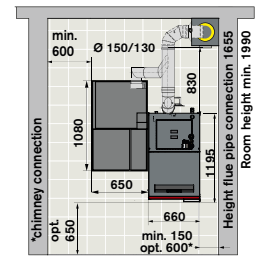
Neo-HV with Smart-PK on right, FP horiz.



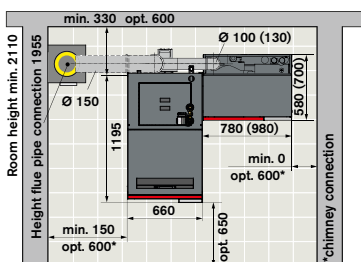
-Neo-HV with Smart-PK on left, FP vert.



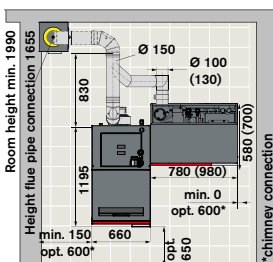
Neo-HV with Smart-PK on left, FP horiz.



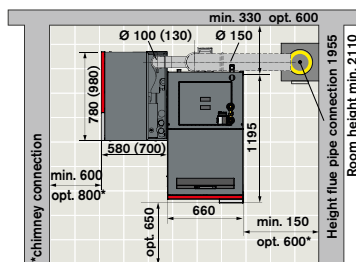
Neo-HV with Nano-PK on right, FP vert.



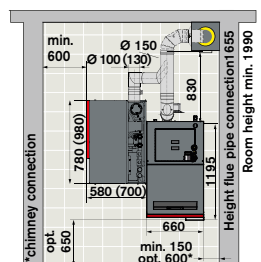
Neo-HV with Nano-PK on right, FP horiz.



Neo-HV with Nano-PK on left, FP vert.



Neo-HV with Nano-PK on left, FP horiz.



# TECHNICAL DATA OF ACCESSORIES



| Bag silo           |                |        |        |              |
|--------------------|----------------|--------|--------|--------------|
| Type               | Filling weight | Width  | Depth  | Height       |
| GWTS 160x160       | 2,0 – 2,5 t    | 168 cm | 168 cm | 195 – 250 cm |
| GWTS 200x200       | 3.1 – 3.8 t    | 208 cm | 208 cm | 195 – 250 cm |
| GWTS 200x250       | 3.7 – 4.6 t    | 208 cm | 258 cm | 195 – 250 cm |
| GWTS 250x250       | 4.4 – 5.7 t    | 258 cm | 258 cm | 195 – 250 cm |
| GWTS 250x250 XL    | 6.5 t          | 258 cm | 258 cm | 270 cm       |
| GWT-MAX 160x200    | 2.9 – 4 t      | 168 cm | 258 cm | 195 – 250 cm |
| GWT-MAX 160x250    | 3.6 – 5.0 t    | 168 cm | 258 cm | 195 – 250 cm |
| GWT-MAX 200x200    | 3.6 – 5.0 t    | 208 cm | 208 cm | 195 – 250 cm |
| GWT-MAX 200x250    | 4.4 – 6.0 t    | 208 cm | 258 cm | 195 – 250 cm |
| GWT-MAX 250x250    | 5.6 – 7.6 t    | 258 cm | 258 cm | 195 – 250 cm |
| GWT-MAX 250x250 XL | max. of 8.2 t  | 258 cm | 258 cm | 280 cm       |

| Underground tank |                  |                   |
|------------------|------------------|-------------------|
| PET model        | 8 m <sup>3</sup> | 10 m <sup>3</sup> |
| Volume           | 4.5 – 5.2 t      | 5.8 – 6.5 t       |
| Diameter         | 250 cm           | 268 cm            |
| Weight           | 280 kg           | 330 kg            |
| Pit dimensions   |                  |                   |
| Diameter (min.)  | 3.50 m           | 3.75 m            |
| Height (min.)    | 3.60 m           | 3.85 m            |

| SP + SP SW 1+2   |                |        |        |        |         |         |         |         |         |         |         |
|--|----------------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|  | Unit           | SP 500 | SP 650 | SP 825 | SP 1000 | SP 1500 | SP 2000 | SP 2600 | SP 3000 | SP 4000 | SP 5000 |
| Accumulator Volume                                       | Litre          | 476    | 647    | 796    | 892     | 1445    | 1904    | 2506    | 2871    | 3887    | 4885    |
| Diameter ø without insulation                            | mm             | 650    | 750    | 750    | 790     | 990     | 1100    | 1250    | 1250    | 1600    | 1600    |
| Diameter ø with insulation                               | mm             | 850    | 950    | 950    | 990     | 1230    | 1340    | 1490    | 1490    | 1840    | 1840    |
| Diameter ø with insulation for energy efficiency class B | mm             | -      | -      | -      | 1070    | 1310    | -       | -       | -       | -       | -       |
| Height without insulation                                | mm             | 1630   | 1660   | 1910   | 2020    | 2090    | 2250    | 2320    | 2620    | 2250    | 2760    |
| Height with insulation for energy efficiency class C     | mm             | 1720   | 1750   | 2000   | 2110    | 2180    | 2340    | 2410    | 2730    | 2340    | 2895    |
| Height with insulation for energy efficiency class B     | mm             | -      | -      | -      | 2150    | 2220    | -       | -       | -       | -       | -       |
| Tilt dimension without insulation                        | mm             | 1650   | 1670   | 1920   | 2030    | 2104    | 2268    | 2411    | 2690    | 2460    | 2900    |
| Connectors 8 pcs IT                                      | inches         | 6/4    | 6/4    | 6/4    | 6/4     | 6/4 (2) | 6/4 (2) | 10x2    | 10x2    | 10x2    | 10x2    |
| Weight SP (without insulation)                           | kg             | 78     | 92     | 105    | 116     | 164     | 216     | 288     | 325     | 437     | 576     |
| Weight SW1 (without insulation)                          | kg             | 102    | 107    | 130    | 160     | -       | -       | -       | -       | -       | -       |
| Heat exchanger bottom SW1 1" IT                          | m <sup>2</sup> | 2      | 2      | 2      | 3       | -       | -       | -       | -       | -       | -       |
| Weight SW2 (without insulation)                          | kg             | -      | -      | 154    | 185     | 252     | -       | -       | -       | -       | -       |
| Heat exchanger top/bottom SW2 1" IT                      | m <sup>2</sup> | -      | -      | 2/2    | 2/3     | 3/3     | -       | -       | -       | -       | -       |

Max. operating pressure 3 bar, max. operating temp. 95 °C. The layered accumulators can only be supplied in conjunction with a boiler! Individual delivery on request!

| HSP + HSP SW 1+2   |                |         |         |         |          |          |
|--|----------------|---------|---------|---------|----------|----------|
|  | Unit           | HSP 500 | HSP 650 | HSP 825 | HSP 1000 | HSP 1500 |
| Accumulator Volume                                       | Litre          | 476     | 647     | 796     | 892      | 1445     |
| Diameter ø without insulation                            | mm             | 650     | 750     | 750     | 790      | 990      |
| Diameter ø with insulation                               | mm             | 850     | 950     | 950     | 990      | 1230     |
| Diameter ø with insulation for energy efficiency class B | mm             | 930     | 1030    | 1030    | 1070     | 1310     |
| Height without insulation                                | mm             | 1630    | 1660    | 1910    | 2020     | 2090     |
| Height with insulation for energy efficiency class C     | mm             | 1720    | 1750    | 2000    | 2110     | 2180     |
| Height with insulation for energy efficiency class B     | mm             | 1760    | 1790    | 2040    | 2150     | 2220     |
| Tilt dimension without insulation                        | mm             | 1650    | 1670    | 1920    | 2030     | 2110     |
| Connectors 8 pcs IT                                      | inches         | 6/4     | 6/4     | 6/4     | 6/4      | 6/4      |
| Edelstahlwellrohr – Wasserinhalt                         | Liter          | 23      | 23      | 37      | 37       | 45       |
| Edelstahlwellrohr 5/4" AG Heizfläche                     | m <sup>2</sup> | 4,1     | 4,1     | 6,7     | 6,7      | 8,2      |
| Weight HSP (without insulation)                          | kg             | 103     | 117     | 133     | 144      | 195      |
| Weight SW1 (without insulation)                          | kg             | 119     | 141     | 157     | 188      | -        |
| Heat exchanger bottom SW1 1" IT                          | m <sup>2</sup> | 2       | 2       | 2       | 3        | -        |
| Weight SW2 (without insulation)                          | kg             | -       | -       | 182     | 213      | 284      |
| Heat exchanger top/bottom SW2 1" IT                      | m <sup>2</sup> | -       | -       | 2/2     | 2/3      | 3/3      |

Max. operating pressure 3 bar, max. operating temp. 95 °C, max. drinking water operating pressure 6 bar, fire protective class B2  
The layered accumulators can only be supplied in conjunction with a boiler! Individual delivery on request!

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