

WOOD LOG BOILERS

17 – 110 kW

HARGASSNER
BIOMASS HEATING TECHNOLOGY



hargassner.com

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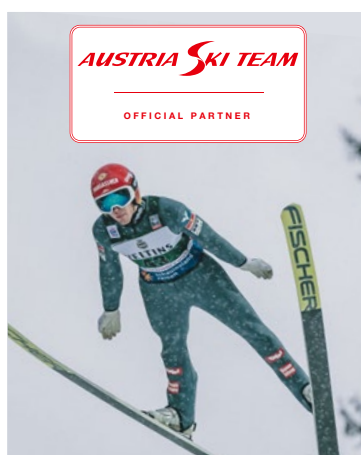
Left to right: Philipp Aschenwald, Jonas Geiner & Daniela Iraschko-Stolz

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 Markus and Anton jr. 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 **38 years of experience**
- ✓ **140,000 customers** worldwide
- ✓ **Company premises covering 54,000 m²**
- ✓ More than **1,000 employees** at several locations
- ✓ **Export to 43 countries**
- ✓ **International awards**



Executive Board (left to right)
Markus & Anton jr. Hargassner



Heating with wood logs

Advantages

- ✓ **Lower costs than oil or gas**
- ✓ **Crisis-resistant**, because locally sourced
- ✓ **Short transportation**
- ✓ **Convenient** thanks to long combustion times
- ✓ **Accumulator storage tank combination**
- ✓ **Value creation process**
remains in the region
- ✓ **Efficient & energy saving**

Environmentally friendly. Wood logs are CO₂-neutral. In general, the cleaner combustion results in a very high CO₂ reduction compared to heating oil.

Local. Using wood logs offers a future-proof market for local companies and secures jobs in the region.

Efficient. The combination of low fuel costs and highly efficient boiler technology makes wood logs 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.



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

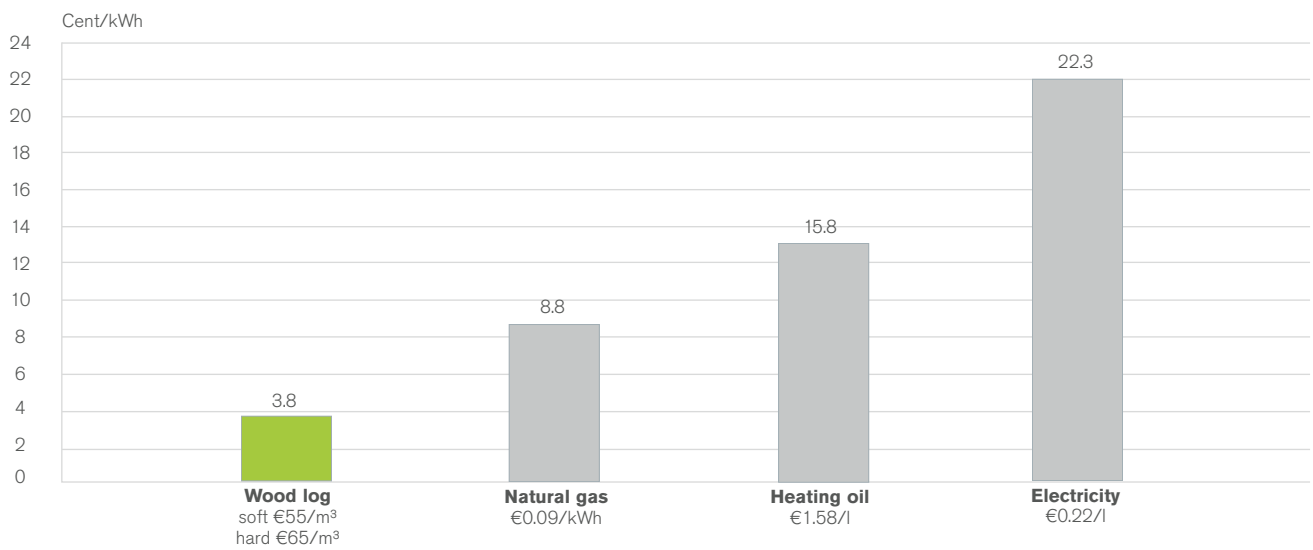


Timber harvesting & log splitting with machine support



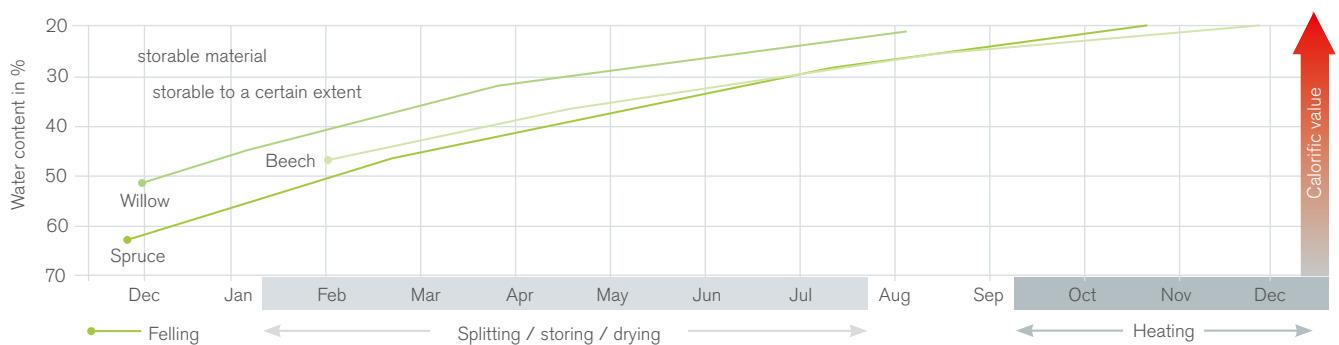
Energy prices per year*

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



* Last updated/guide values from 06/2022. Sources: Gas: e-control, heating oil: IWO, pellets: Genol and proPellets Austria, arbeiterkammer.at

Course of the production of wood logs



The variety of our wood log boilers

SMART HV

17 – 23 kW

½ m wood log gasifier

Perfect for:

- Detached houses
- Weekend homes

For details, see p. 8



NEO HV

20 – 60 kW

½ m wood log gasifier

Perfect for:

- Detached houses
- Multi-dwelling units
- Agriculture & forestry

For details, see p. 12



Biomass heating technology at its best

Products from Hargassner combine the highest quality, expertise and decades of proven technology. As a biomass pioneer, Hargassner researches and develops the future of heating with a keen sense of the environment. These innovations make the boilers some of the best biomass heating solutions available in the world today. Lowest emissions at the highest efficiencies, maximum convenience and long lifetime characterise the "Hargassner" brand. Research, quality control and the focus on customer satisfaction



NEO MHV

30 – 45 kW

½ & 1 m wood log gasifier

Perfect for:

- Detached houses
- Multi-dwelling units
- Agriculture & forestry

For details, see p. 20



MV

55 – 110 kW

1 m wood log gasifier

Perfect for:

- Agriculture & forestry
- Business

For details, see p. 22



therefore characterise the daily tasks to a high degree. Many customers are already benefiting from this success story. A capacity of more than 30,000 boilers produced per year and over 140,000 satisfied buyers worldwide are proof of the top level of Hargassner heating technology.

Discover the wide world of Hargassner wood log heating systems on the following pages.



Our Smart-HV boiler series have been awarded the EnergieGenie (energy genius) innovation prize. You can find more information about our awards and prizes on our website hargassner.com



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**
- ✓ **Touch display** for convenient adjustment
- ✓ **Smoke-free refilling**
- ✓ **Easy filling**
- ✓ **Manual cleaning**



Also available as a wood log pellet combi boiler!
For details, see p. 18

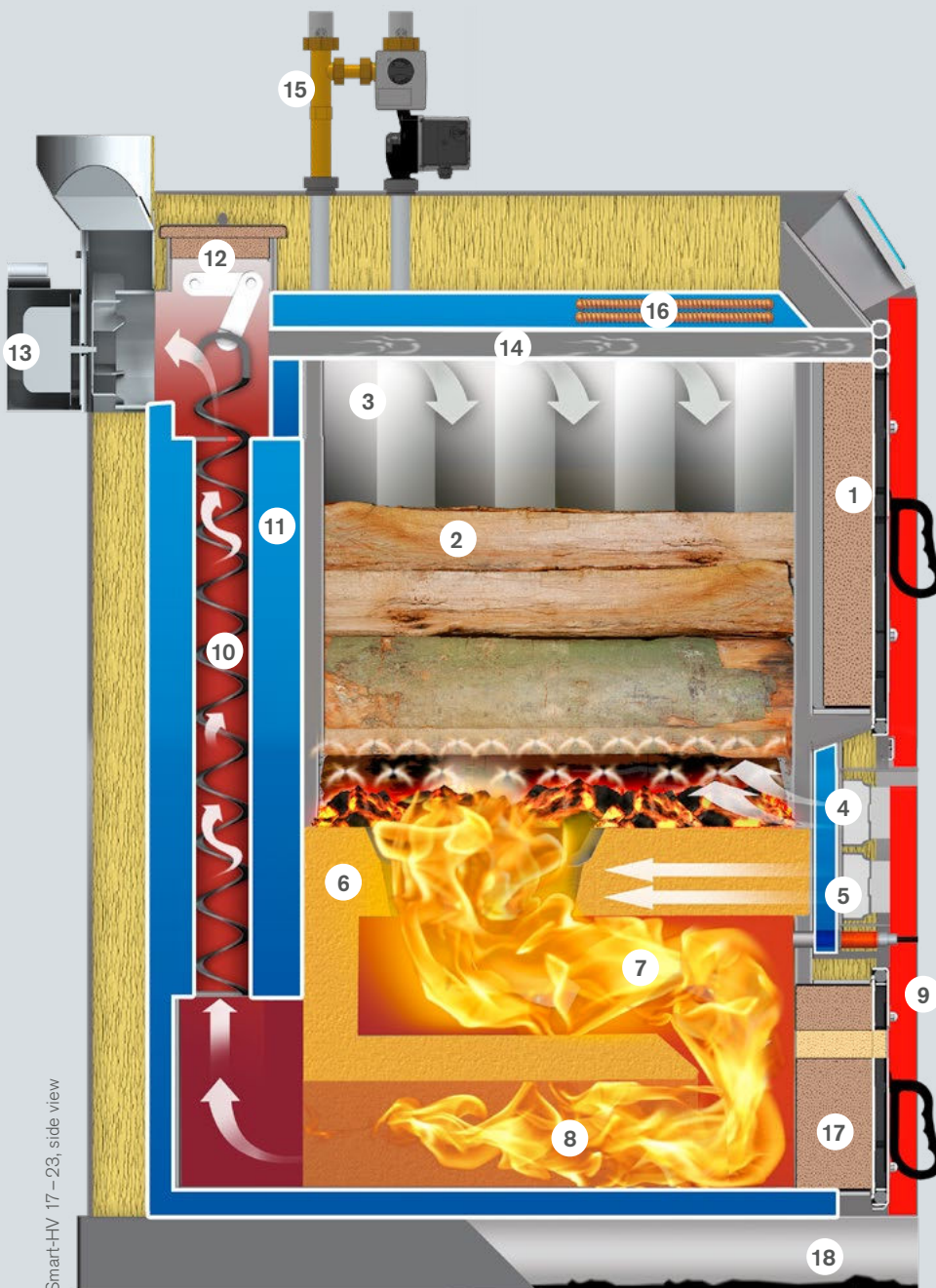
Application areas

-  Detached houses
-  Weekend homes

- + — H x W x D = 1,290 x 655 x 970 mm
- + — Energy efficiency class **A+**
- + — Efficiency of up to 94 %
- + — 5-year warranty

Smart heating at the lowest price

Smart-HV 17 – 23



- 1 Large filling door
- 2 Filling chamber for ½ m 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 system
- 13 Exhaust fan
- 14 Top smoulder gas vent
- 15 Optional back-end protection
- 16 Cooling coil for thermal safety circuit
- 17 Cleaning door
- 18 Ash pan

Smart-HV 17 – 23, side view



SMART HV

The future of heating



Fully refractory-lined high-performance combustion chamber for optimum post-combustion

The refractory combustion chamber's special **storage effect** guarantees high combustion temperatures (even for partial load), and ensures convenient self-ignition even with long refilling intervals.

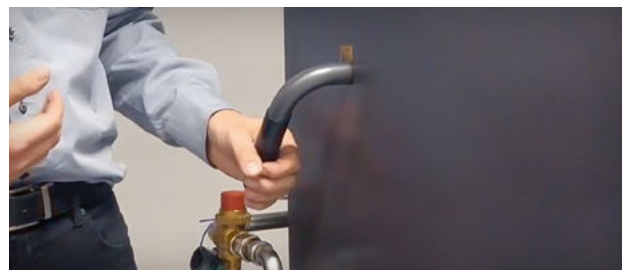
It doesn't matter which fuel type you use – soft or hard wood logs, or briquettes – the control unit uses the lambda sensor to detect the relevant calorific value and sets the primary and secondary air with separate motors. Your heating system is always working with the required output at the best combustion values.

Speed controlled EC exhaust fan

Depending on the heat demand, the control unit regulates the speed of the exhaust fan. This concept ensures ideal combustion with minimal flue gas temperatures and therefore maximum efficiency. The EC motor is extremely energy-efficient and thus saves operating costs.

Manual cleaning of the heat exchanger

Simply move the external cleaning lever back and forth several times and the heat exchangers are free of deposits. The ash can then be conveniently pushed into the ash pan at appropriate intervals using the cleaning tools supplied.





Lambda Touchtronic control unit

This unique boiler control with touch-screen operation for increased ease of use controls the entire combustion process. Via an additional module, all the heat circuits can be controlled according to the outdoor temperature and the hot water tank can be connected to a differential controller.

Easy to clean

All maintenance parts are accessible from the front side. Easy ash removal from the front into the ash tray below.

Back-end protection / heat distribution

The return temperature is kept high by the return mixer group. The heat is simultaneously sent to the accumulator tank.



Easy refilling

The large door ensures easy refilling of the very large filling chamber (102 l). The logs can be up to 53 cm long. An especially optimised lining in the filling chamber ensures efficient combustion without tar formation. A smoulder gas channel at the top sucks out the residual smoulder gases when the chamber is being filled. Clean and efficient!






NEO HV

20 – 60 kW

All technical details of the Neo-HV are optimised for optimum ease of operation and maintenance. A separate premium package increases the Hargassner operating comfort to a maximum. An all-round perfect gasifier for your own log heating system.

- ✓ **Filling chamber size for ½ m logs**
- ✓ **State-of-the-art combustion control**
- ✓ Automatic **boiler cleaning system**
- ✓ **Touch display** for convenient adjustment
- ✓ **Filling chamber lighting** as standard
- ✓ Optional **automatic ignition**
- ✓ Optional **premium version**

Application areas

-  Detached houses
-  Multi-dwelling units
-  Agriculture & forestry

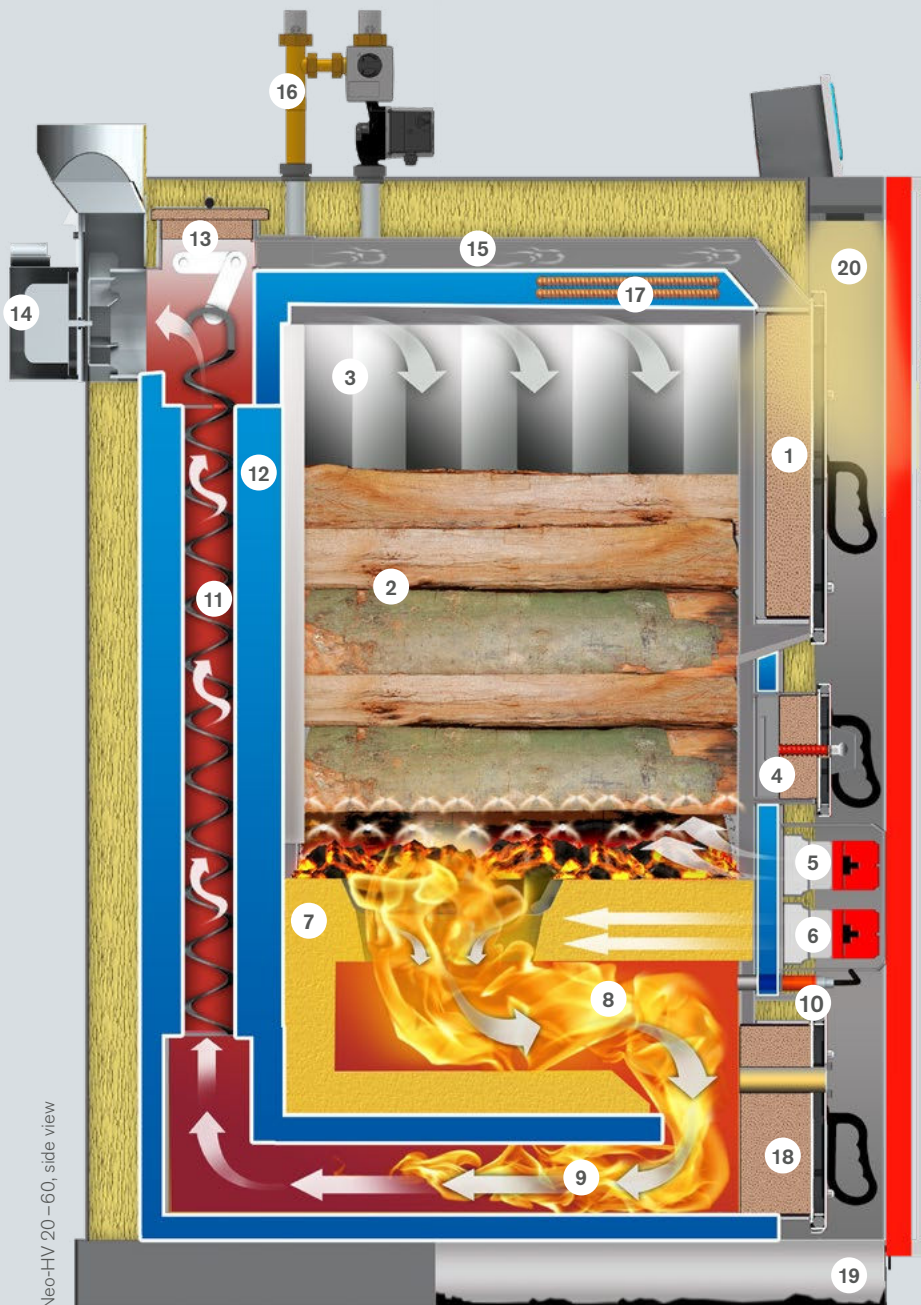


Also available as a wood log pellet combi boiler!
For details, see p. 18

- ⊕ — H x W x D = 1,665 x 660 x 1,310 mm (Neo-HV 20 – 30)
- ⊕ — H x W x D = 1,730 x 740 x 1,370 mm (Neo-HV 40 – 60)
- ⊕ — Energy efficiency class **A+**
- ⊕ — Efficiency of up to 93.7 %
- ⊕ — 5-year warranty

Innovative gasifier technology

Neo-HV 20 – 60



- 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 Automatic boiler cleaning system
- 14 Exhaust fan
- 15 Top smoulder gas vent
- 16 Optional back-end protection
- 17 Cooling coil for thermal safety circuit
- 18 Cleaning door
- 19 Ash pan
- 20 Filling chamber lighting as standard

Neo-HV 20 – 60, side view



NEO HV

The future of heating



Fully refractory-lined high-performance combustion chamber for optimum post-combustion

The refractory combustion chamber's special **storage effect** guarantees high combustion temperatures (even for partial load), and ensures convenient self-ignition even with long refilling intervals.

It doesn't matter which fuel type is used – soft or hard wood logs, or briquettes – the control unit uses the lambda sensor to detect the relevant calorific value and sets the optimum primary and secondary air with two separate motors. The heating system is always working with the **ideal output** at the best combustion values.

Speed controlled EC exhaust fan

The Lambda Touchtronic will control the speed of the exhaust fan according to the required output. This ensures combustion with minimal flue gas temperatures and therefore maximum efficiency. The EC motor is extremely energy-efficient and thus saves operating costs. There is also a rotary flue pipe connector available as an accessory which, if required, can be positioned at the top or on the left or right.



Automatic heat exchanger cleaning

Gone are the days of manual heat exchanger cleaning. The automatic heat exchanger cleaning system takes care of everything. This guarantees continuously high efficiency levels and reduces the amount of cleaning you have to do.

solid

high res

4269814



Lambda Touchtronic control unit

This unique boiler control with touch-screen operation for increased ease of use controls the entire combustion process. In addition, all the heat circuits can be controlled according to the outdoor temperature and the hot water tank can be connected to a differential controller.



Filling chamber lighting

This enables you to conveniently fill or easily clean the filling chamber.

Back-end protection / heat distribution

The return temperature is kept high by a return mixer group attached to the boiler itself and the heat is simultaneously sent to the heat circuits and/or the accumulator tanks.



Easy refilling

The large door ensures easy refilling of the very large filling chamber (166 / 222 l). The logs can be up to 60 cm long.

Clean combustion

The optimised lining in the filling chamber ensures efficient combustion without tar formation. A smoulder gas channel at the top sucks out the residual smoulder gases when the chamber is being filled.

Easy to clean

All components are accessible from the front side: Easy ash removal from the front into the ash tray below.



Highest demands
for heating
with wood logs

The high-end model among the wood gasifiers

Neo-HV Premium 20 – 60

The "Neo-HV Premium" range of wood log boilers is the right choice for anyone looking for maximum comfort and powerful, original heating performance.

The technological sophistication paired with the durable quality of the Neo-HV results in heating with wood logs at the highest level for the best price-performance ratio – in other words, premium.



NEO HV PREMIUM

Stainless steel filling chamber lining

The high-quality filling chamber lining ensures a long lifetime for the Neo-HV Premium.



Automatic ceramic ignition

It increases convenience and guarantees the heat supply.



Convenience ash pan

The special cover and integrated carrying handle allow you to dispose of the ashes conveniently and dust-free.





COMBI BOILER

Combines the best of wood logs & pellets

Hargassner has decades of experience in biomass heating technology. A know-how advantage that leads to particularly sophisticated technology when combining wood logs and pellets. The arrangement with two separate heat exchangers achieves the highest system efficiencies. At the same time, the advantages – the comfort of pellets and the low cost of logs – are ideally combined.

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



Combination of wood log boiler Neo-HV & pellet boiler Nano-PK

NEO HV + NANO PK 20 – 60 kW 6 – 32 kW

The allrounder for maximum comfort

This combi option is impressive because it consists of an automatic wood log boiler with a large filling chamber and a 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 automatically switch to the pellet boiler. The pellets are suctioned directly out of their storage room and into the hopper.



NEO HV + SMART PK 20 – 60 kW 17 – 32 kW

For wood log boilers with sporadic pellet operation

This combination consisting of an automatic wood log boiler with a large filling chamber and a pellet boiler with manual filling and long filling intervals 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.



SMART HV + NANO PK 17 – 23 kW 6 – 32 kW

For the pellet boiler with occasional wood log operation

This option consisting of a pellet boiler with an automatic heat exchanger cleaning system and a fuel extraction system 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 and is suitable for occasional wood log operation.



SMART HV + SMART PK 17 – 23 kW 17 – 32 kW

The combi boiler for the economical customer

This very cost-efficient Hargassner solution consists of a wood log boiler and a pellet boiler that are both filled manually. The heat exchanger is also cleaned manually. If the wood log boiler has not been filled, the system will automatically switch to pellets. This combi option can run for up to ten days without being refilled. Perfect price-performance ratio.





NEO MHV




30 – 45 kW

The Neo-MHV gives wood log boilers with higher heating requirements the freedom to choose: with two log lengths, there are twice as many options for reliable heat. Despite its extremely large filling chamber, it is still a real space saver.

- ✓ **300 l filling chamber for ½ m & 1 m logs**
- ✓ Integrated **back-end protection**
- ✓ **Minimum space requirements**
- ✓ **Easy to install**



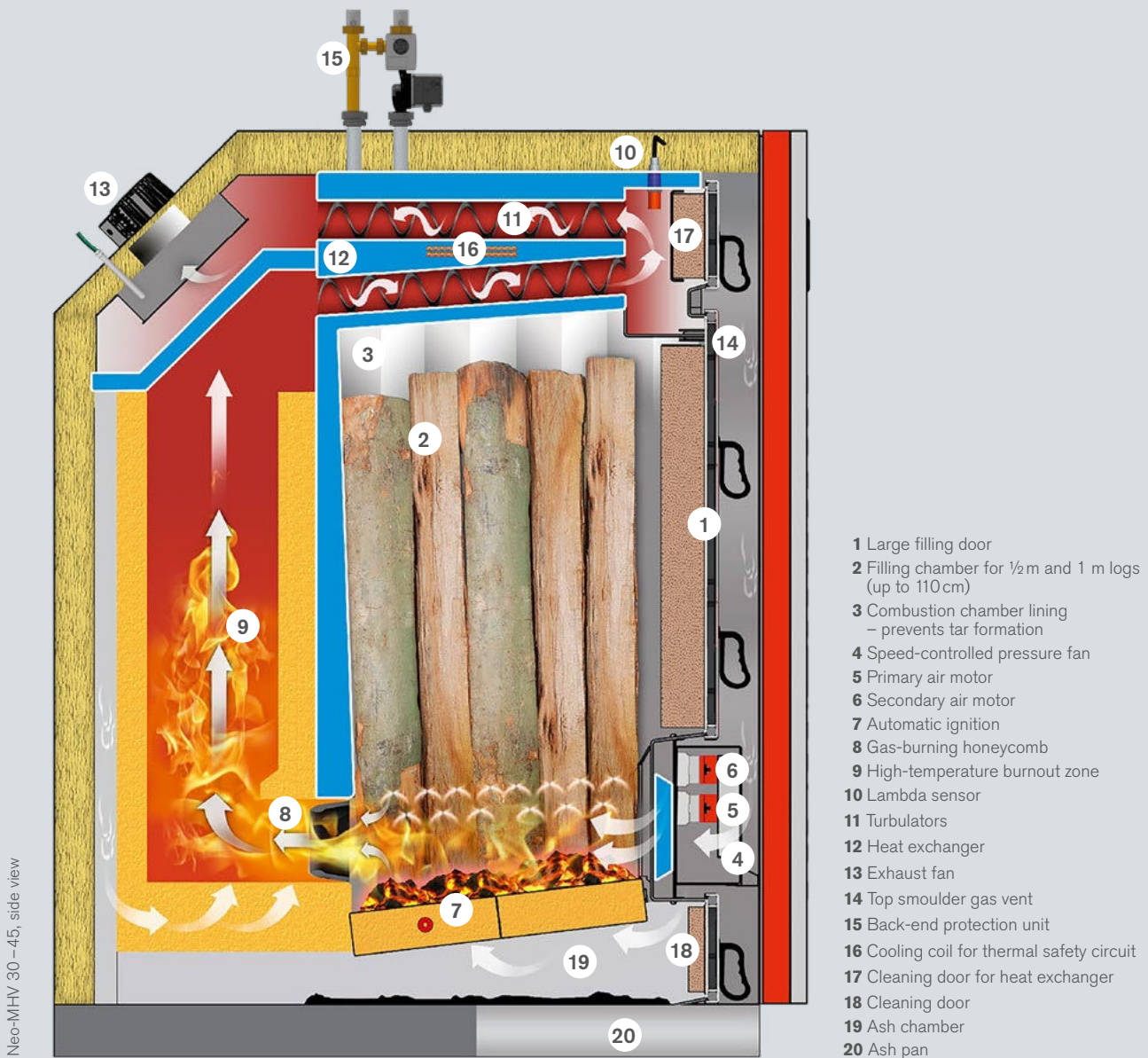
Application areas

-  Detached houses
-  Multi-dwelling units
-  Agriculture & forestry

- ⊕ — H x W x D = 1,770 x 850 x 1,435 mm
- ⊕ — Energy efficiency class **A+**
- ⊕ — Efficiency of up to 91.4 %
- ⊕ — 5-year warranty

The "big one" from Hargassner

Neo-MHV 30–45



- 1 Large filling door
- 2 Filling chamber for ½ m and 1 m logs (up to 110 cm)
- 3 Combustion chamber lining – prevents tar formation
- 4 Speed-controlled pressure fan
- 5 Primary air motor
- 6 Secondary air motor
- 7 Automatic ignition
- 8 Gas-burning honeycomb
- 9 High-temperature burnout zone
- 10 Lambda sensor
- 11 Turbulators
- 12 Heat exchanger
- 13 Exhaust fan
- 14 Top smoulder gas vent
- 15 Back-end protection unit
- 16 Cooling coil for thermal safety circuit
- 17 Cleaning door for heat exchanger
- 18 Cleaning door
- 19 Ash chamber
- 20 Ash pan



MV

55 – 110 kW

The strong power package in the wood gasifiers powerfully converts the energy in the wood into the highest performance values. The MV for logs up to 110 cm long has thus secured a spot among the top sellers of Hargassner log boilers.

- ✓ **450l filling chamber for 1 m logs**
- ✓ **Back-end protection**
included in scope of delivery
- ✓ **Unique automatic ignition**



Application areas

 Agriculture & forestry

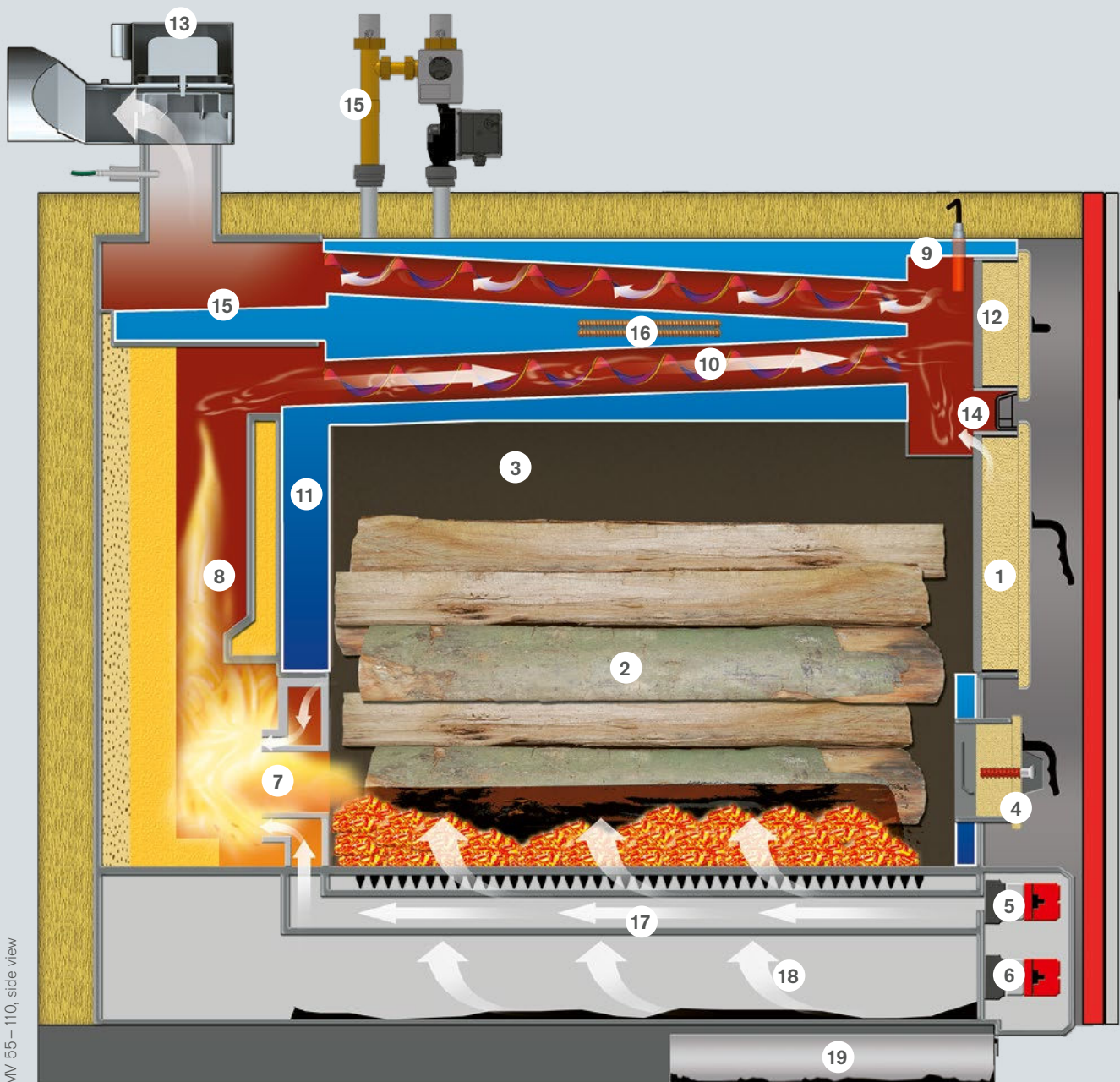
 Business

- + — H x W x D = 1,555 x 910 x 1,880 mm (MV 55 – 80)
- + — H x W x D = 1,820 x 1,000 x 1,910 mm (MV 90 – 110)
- + — Efficiency of up to 94.9%
- + — 5-year warranty

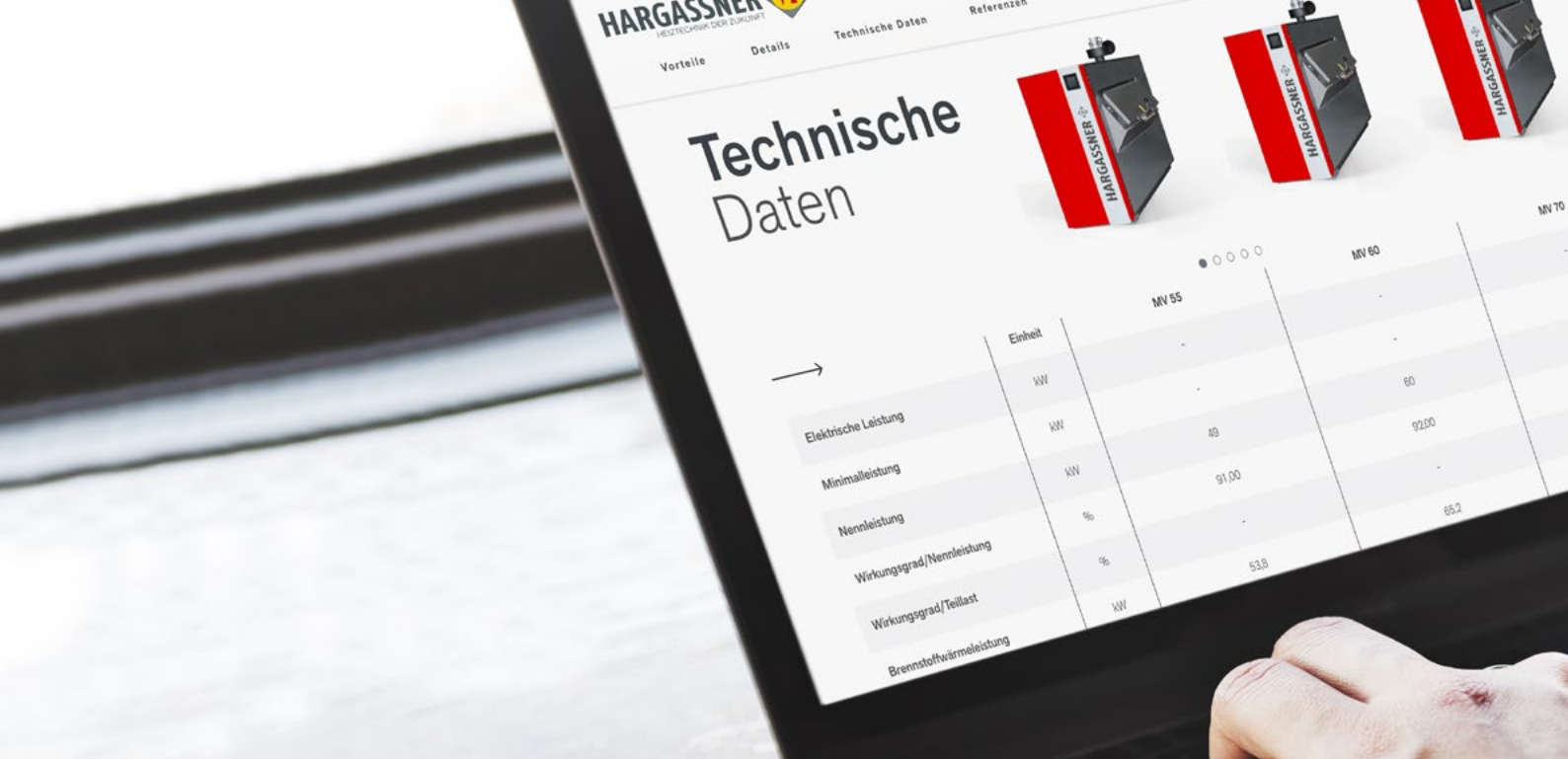
Maximum combustion power

MV 55 – 110

- 1 Large filling door
- 2 Large filling chamber for 1 m logs (up to 110 cm)
- 3 Combustion chamber lining – prevents tar formation
- 4 Ash door
- 5 Primary air motor
- 6 Secondary air motor
- 7 Gas-burning honeycomb with injector nozzle
- 8 High-temperature burnout zone
- 9 Lambda sensor
- 10 Turbulators
- 11 Heat exchanger
- 12 Cleaning door for heat exchanger
- 13 Exhaust fan
- 14 Top smoulder gas vent
- 15 Back-end protection unit
- 16 Cooling coil for thermal safety circuit
- 17 Secondary air channel
- 18 Ash chamber
- 19 Ash pan



MV 55 – 110, side view



NEO MHV and MV

The future of heating



Fully refractory-lined high-performance combustion chamber for optimum post-combustion

The refractory combustion chamber's special **storage effect** guarantees high combustion temperatures (even for partial load).

It doesn't matter which fuel type you use – soft or hard wood logs, or briquettes – the control unit uses the lambda sensor to detect the relevant calorific value and sets the primary and secondary air with separate motors. Your heating system is always working with the **ideal output** at the best combustion values.

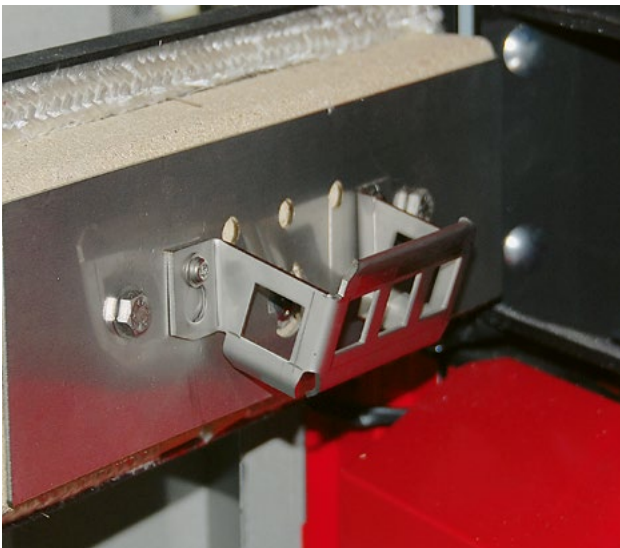
Speed controlled EC exhaust fan

Depending on the heat demand, the control unit regulates the speed of the exhaust fan. This concept ensures optimum combustion with minimal flue gas temperatures and therefore maximum efficiency. The EC motor is extremely efficient and thus saves operating costs.



Excellent combustion

Via the gas-burning honeycomb with injector nozzles, the wood gases are mixed in a vortex with preheated, secondary combustion air. The wood gases thus burn perfectly in the high-temperature combustion chamber.



Heat-up convenience through automatic ignition

The heat-up door is equipped with an automatic ignition. The boiler is filled with logs and the heat-up door with a piece of paper. When heat is required, the boiler ignites automatically.

Back-end protection / heat distribution

The return temperature is kept high by the integrated return mixer group. The heat is simultaneously sent to the accumulator tank.



Easy refilling

The large door at the front ensures easy refilling of the very large filling chamber with half-metre or one-metre logs. A smoulder gas channel at the top sucks out the residual smoulder gases when the chamber is being filled. There is also an optional side shaft for the MV 55 – 110 types.

Easy to clean

Everything is accessible from the front. The boiler is easy and convenient to de-ash into the ash pan below.

Anywhere, anytime



Hargassner app
Click here to download
for iOS!



Hargassner app
Click here to download for
Android!



Awarded
1st place for the
APP-AWARD 2022

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

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.





Simple **boiler operation**

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.



Hargassner Lambda Touchtronic

The software controls the Neo-HV, Neo-MHV and MV boiler series. The control unit controls two heat circuits and one hot water tank circuit as standard and can be extended as required. It is guided by weather conditions, so recognises changes in conditions as soon as they occur and seamlessly adjusts the boiler's output accordingly. As a result, the boiler is always running in the optimum output range, enabling you to save both fuel and unnecessary costs.



Hargassner Smart-Touch

The Smart-HV boiler series is equipped with Hargassner's new Smart-Touch control unit. It includes the complete combustion control unit and a 3-sensor accumulator 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. An interface for combi operation with a Hargassner pellet boiler has also been integrated. This makes the new Smart-Touch control a perfectly tailored solution for the entire boiler system.

Lean back and relax – your heating system will do the rest!

Control of heat circuits

The **Lambda Touchtronic** can control multiple heat circuits that are independent of each other. You can specify different settings in detail. For example, you can specify the room temperature you would like on a particular heat circuit at a particular time of day.



Hot water tank

It's only necessary to set the desired hot water tank temperature and loading time. The control unit takes care of the rest. Hargassner guarantees hot water – 24 hours a day.



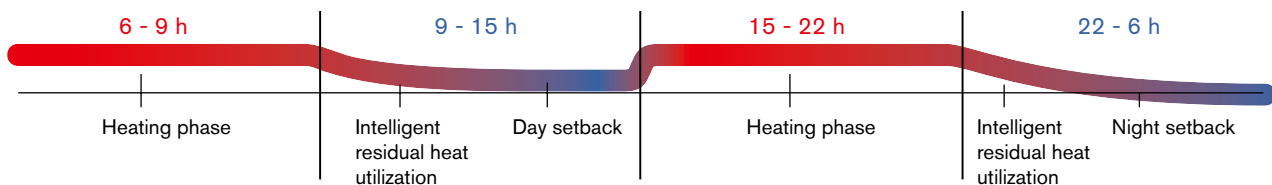
Another advantage is the automatic HWT priority. This ensures that the room temperature does not cool down during hot water tank loading periods.

Your home therefore remains warm and cosy at all times.

Hargassner's **3G day/night reduction mode** makes it possible to set three outdoor temperature thresholds. One mode for "Heating during the day", one for "Reduction during the day" and one for "Reduction during the night". As a result, the heating system only operates if necessary – this is convenient for energy saving. Thanks to the clever residual heat use feature, the energy remaining in the boiler after it has been shut down is efficiently fed into the heat circuits.

Example of a day heating sequence with reduction logic

Fixed outdoor thresholds above which heating is required: Day from 16°C, night from -5°C (22:00 – 6:00 h)



Heating period 1

06:00 – 09:00: Outside it is -7°C, well below the defined threshold of +16°C. **The heating switches on.**

Day reduction period

09:00 – 15:00: Outside, the temperature rises to -1°C, which is below the day reduction threshold of +8°C. **The heating switches on in day reduction mode.**

Heating period 2

15:00 – 22:00: The outside temperature rises to +1°C, which is considerably lower than the threshold of +16°C. **The heating remains on.**

Night reduction period

22:00 – 06:00: The temperature cools down to -2°C, which is above the night reduction threshold of -5°C. **The heating switches off.**



Permanently
storing heat

Accumulator systems for stored 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 – heat storage and hot water preparation.



Layered heat storage tank – layered accumulator for 500–5,000 l

Layered accumulators of the types SP, HSP, FWS and their solar variants can be used for all Hargassner boilers. The Hargassner commissioning engineer company will be happy to recommend the right solution. The addition of a freshwater station 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**




Universal hot-water storage tank WS 300 and WS 500 (solar operation possible)

The allrounders among the hot-water storage tanks can be combined with all Hargassner boilers. They are characterised by optimally dimensioned heating surfaces for fast heat up times and high continuous output. Solar operation is provided for the WS 300-S and WS 500-S types by integrating an additional bare-tube heat exchanger. This is the perfect way to store energy from the combination of biomass and the sun.

 **Household**
People: 5/8*

 **Baths**
Evening: 1/2*

 **Showers**
Morning: 3/4* &
Evening: 2/3*

*The values given are guide values that depend on user behaviour and the actual temperature settings



Accumulator recommendations for boiler type

Which accumulator is suitable for which boiler (depending on the type of wood used):

Accumulator volume in litres	1000 2 x 500	1500 2 x 650	1500 2 x 825	2000 2 x 1000	2600 3 x 825	2 x 1500 3 x 1000	4000 2 x 2000	2 x 2600	3 x 2000
Smart-HV 17 - 23	Min. (green)	Optimum (yellow)	Min. (green)	Optimum (yellow)					
Neo-HV 20 - 30			Min. (green)	Optimum (yellow)	Min. (green)	Optimum (yellow)			
Neo-HV 40 - 60				Min. (green)	Optimum (yellow)	Min. (green)	Optimum (yellow)		
Neo-MHV 30 - 45						Min. (green)	Optimum (yellow)	Min. (green)	Optimum (yellow)



Versatile heating
accessories

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 (also as download).



Find out more about our heating accessories at hargassner.com

Various heating components



Substation, heat meters, fresh-water 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.



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 or horizontal collectors with above-average performance and a long lifetime, and they are available in reinforced versions for regions with high snow loads. The Hargassner Group is the only company worldwide to market vacuum flat-plate collectors. They are the only collectors that work 100% free of condensate.



Stainless steel flue pipe connection set Ø 150 mm

At Hargassner you can also find special stainless steel flue pipe sets for wood log boilers. The connection sets include all the necessary components such as bows, pipes and boiler collars. There are two ADO versions of this set, one with an integrated chimney draught stabiliser (explosion protection) or one where the draught stabiliser for the chimney has to be provided by the customer.



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.

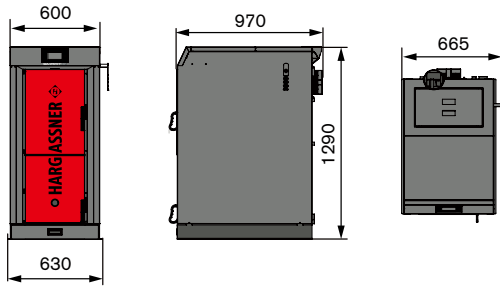


OekoTube-Inside

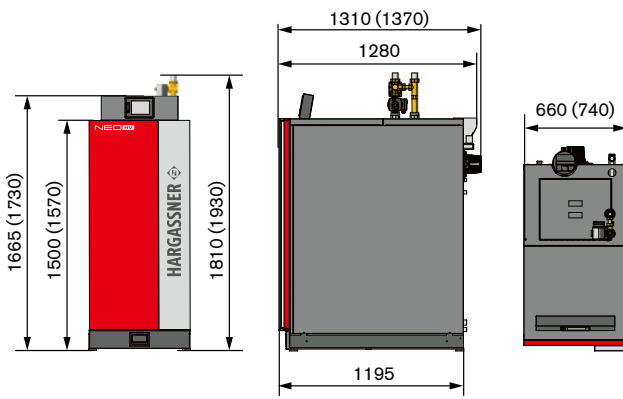
The OekoTube-Inside is an electrostatic micro-dust filter recognised by BAFA (Germany's Federal Office for Economic Affairs and Export Control) as an approved measure for reducing micro-dust levels. The filter is compatible with all Hargassner boilers up to 60 kW.

TECHNICAL DATA

SMART-HV 17 – 23



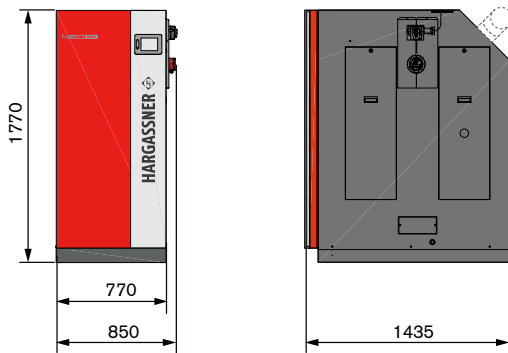
Neo-HV 20 – 60



Top flue pipe connection.
A rotatable exhaust fan housing for the left or right side is available as an option.

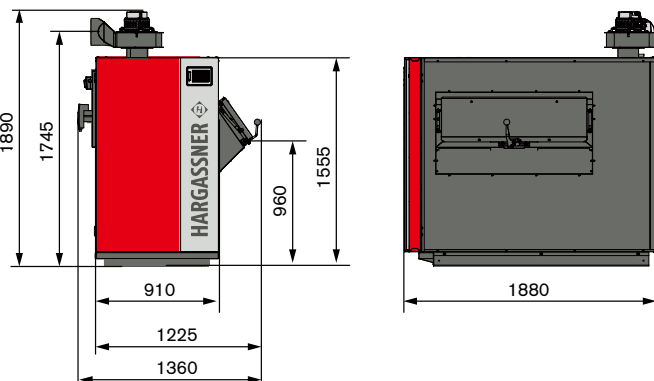
Dimensions in () are for Neo-HV 40-60 boilers

Neo-MHV 30 – 45

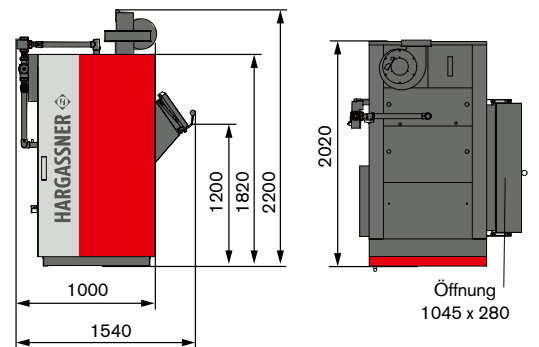


This product drawing is of a left-hand boiler (the boiler can be positioned with its left-hand side against the wall, and the door hinge and flue outlet are on the left).

MV 55 – 80



MV 110



SMART-HV 17–23 wood gasifier ½ m					
	Unit	Smart-HV 17	Smart-HV 20	Smart-HV 23	
Power range	kW	17	15.1 – 19.4	15.1 – 23	
Efficiency Full load / Partial load	%	93.9	93.8 / 94.3	93.7 / 94.3	
Fuel heat output full load	kW	18.1	20.7	24.5	
Flue pipe diameter	mm		130		
Filling volume	Litre		102		
Filling room depth	mm		535		
Filling door H x B	mm		455 x 340		
Water content	Litre		72		
Water-side resistance ΔT 10 [K]	mbar	<1	<2	3	
Water-side resistance ΔT 20 [K]	mbar	<1	<1	<1	
Flow/Return	inches		6/4		
Weight	kg		400		
Size H / B / T	mm		1290 x 655 x 970		
Transport dimensions H / B / T	mm		1290 x 600 x 970		
Boiler label	Category	A+	A+	A+	
Composite label incl. the control unit	Category	A+	A+	A+	

Max. operation temperature 95°C, max. operating pressure 3 bar, electrical connection 230 V AC, 50 Hz, 13 A fuse
A door hinged on the left is standard, but the door can be reversed on request (hinge can be changed to the right on-site)

Neo-HV 20 – 60 wood gasifier ½ m						
	Unit	Neo-HV 20	Neo-HV 30	Neo-HV 40	Neo-HV 50	Neo-HV 60
Power range	kW	12.7 – 25.4	15 – 30	20 – 40	24.5 – 49	30 – 60
Efficiency Full load / Partial load	%	93.7 / 92.8	92 / 92.8	92.3 / 93.7	92.5 / 94.4	92.8 / 95.4
Fuel heat output - full load	kW	27.1	32.6	43.3	53	64.7
Flue pipe diameter	mm			150		
Filling volume	Litre	166			222	
Filling room depth	mm			600		
Filling door H x B	mm			402 x 356		
Water content	Litre	137			166	
Water-side resistance ΔT 10 [K]	mbar	20.5	36	66.5	94	137
Water-side resistance ΔT 20 [K]	mbar	5.4	9.3	17.6	25	35
Flow/Return	inches			6/4 (1)		
Weight	kg	700			810	
Size H / B / T	mm	1665 x 660 x 1310			1730 x 740 x 1370	
Transport dimensions H / B / T	mm	1665 x 775 x 1450			1730 x 840 x 1450	
Boiler label	Category	A+	A+	A+	A+	A+
Composite label incl. the control unit	Category	A+	A+	A+	A+	A+

Max. operation temperature 95°C, max. operating pressure 3 bar, electrical connection 230 V AC, 50 Hz, 13 A fuse
A door hinged on the left (without side shaft) is standard, but the door can be reversed on request (hinge can be changed to the right on-site)

Neo-MHV 30–45 wood gasifier ½ m & 1 m					
	Unit	Neo-MHV 30	Neo-MHV 35	Neo-MHV 40	Neo-MHV 45
Power range	kW	26.4 – 30	26.4 – 35	26.4 – 40	26.4 – 45
Efficiency Full load / Partial load	%	90.4 / 90.1	90.7 / 90.1	91 / 90.1	91.4 / 90.1
Fuel heat output full load	kW	33.2	38.6	44	49.1
Flue pipe diameter	mm			150	
Filling volume	Litre			300	
Filling room depth	mm			550 / 1080	
Filling door H x B	mm			755 x 502	
Water content	Litre			150	
Water-side resistance ΔT 10 [K]	mbar	25	33	43	55
Water-side resistance ΔT 20 [K]	mbar	6	9	11	14
Flow/Return	inches			5/4	
Weight	kg			1030	
Size H / B / T	mm			1770 x 850 x 1435	
Transport dimensions H / B / T	mm			1770 x 930 x 1630	
Boiler label	Category	A+	A+	A+	A+
Composite label incl. the control unit	Category	A+	A+	A+	A+

Max. operation temperature 95°C, max. operating pressure 3 bar, electrical connection 230 V AC, 50 Hz, 13 A fuse
A door hinged on the left (without side shaft) is standard, but the door can be reversed on request (hinge can be changed to the right on-site)

MV 55 – 110 wood gasifier 1 m						
	Unit	MV 55	MV 60	MV 70	MV 80	MV 110
Power range	kW	49	60	70	80	115
Efficiency Full load / Partial load	%	91.0	92.0	93.0	94.0	91.0
Fuel heat output full load	kW	53.8	65.2	75.3	85.1	126.4
Flue pipe diameter	mm			200		250
Filling volume	Litre			450		720
Water content	Litre			250		300
Water-side resistance ΔT 10 [K]	mbar	78	113	151	195	85
Water-side resistance ΔT 20 [K]	mbar	23	32	42	54	22
Flow/Return	inches			2		
Weight	kg			1430		1860
Size H / B / T	mm			1555 x 910 x 1880		1820 x 1000 x 2020
Transport dimensions H / B / T	mm			1570 x 1100 x 1820		1820 x 1240 x 1830
Composite label incl. the control unit	Category	A+	A+	A+		-

Max. operation temperature 95°C, max. operating pressure 3 bar, electrical connection 230 V AC, 50 Hz, 13 A fuse
A door hinged on the left (without side shaft) is standard, but the door can be reversed on request (hinge can be changed to the right on-site)
Side shaft SR=right (front door hinge left), SL= left (front door hinge right)

HARGASSNER

BIOMASS HEATING TECHNOLOGY



Your expert for **PELLET | WOOD LOG | WOOD CHIP** HEATING

Complete Hargassner range: pellet boilers, wood chip boilers, wood log boilers, accumulator tank, industrial boilers up to 2.5 MW, heating modules, filling augers, combined heat power CHP, Power-Box warm-air module, solar panels and hydraulic accessories.

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