

≡ hoxter

Fireplace technology

Fireplace inserts
Water heating fireplace inserts





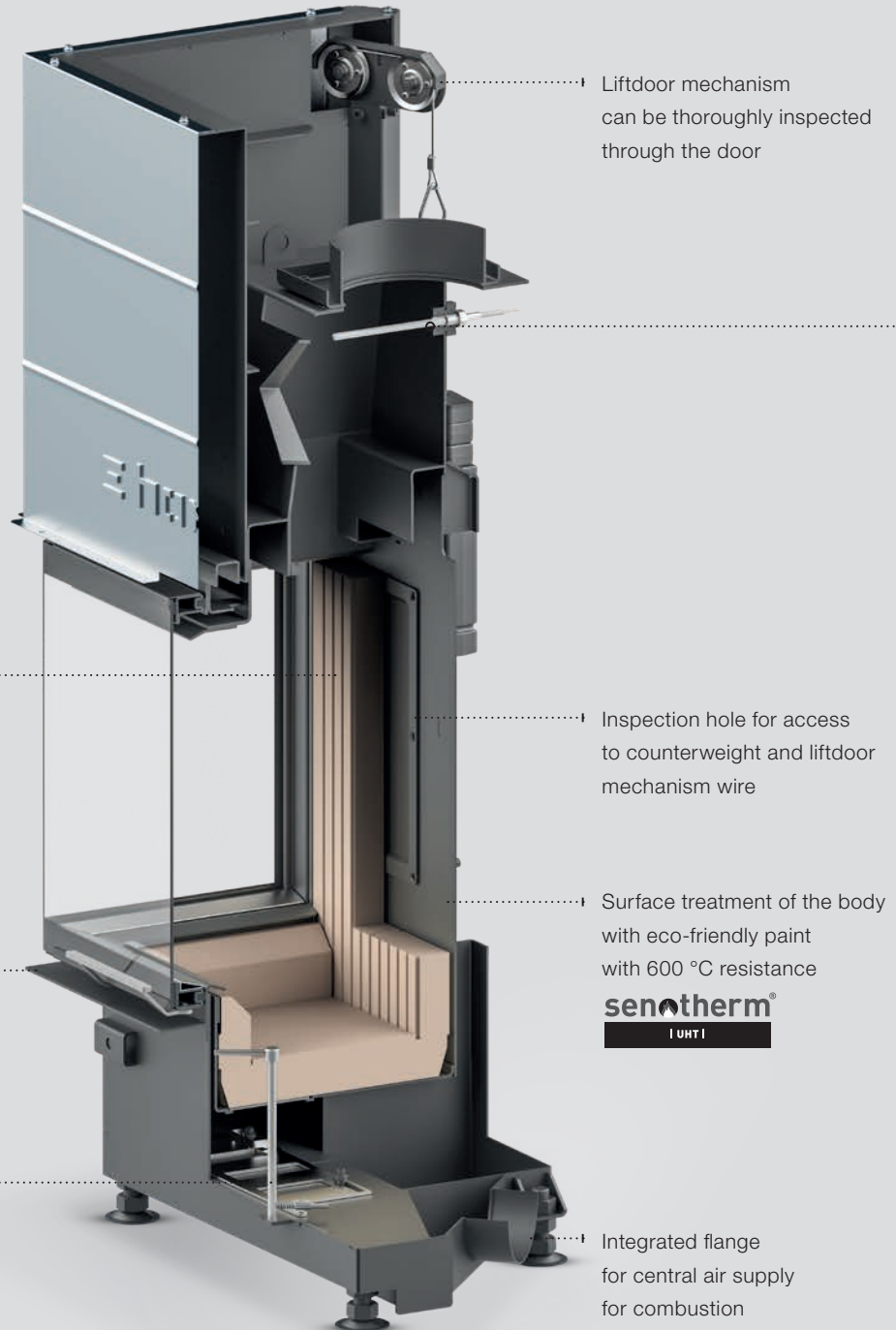


Construction of the fireplace

When building a modern fireplace, the contractor faces the same challenges as the fireplace insert manufacturer. It takes a lot to put together a functional and aesthetically pleasing fireplace that meets the challenging design and quality demands of investors. A customer buying a new fireplace asks the same questions. *What makes this solution special? What extras do I get?* In order to make sure your experience translates into great projects and work goes well, and so you can give meaningful answers to questions like these, you'll need a product which sets the world alight. We offer you top quality fireplace inserts, a wide range of accessories and customisations, and full technical support for your work. We're in it together.

100% inspection

Trouble-free inspection of all moving components through insert inspection holes or doors even after installation into an enclosed fireplace shell.



senotherm®
| UHT-HYDRO |

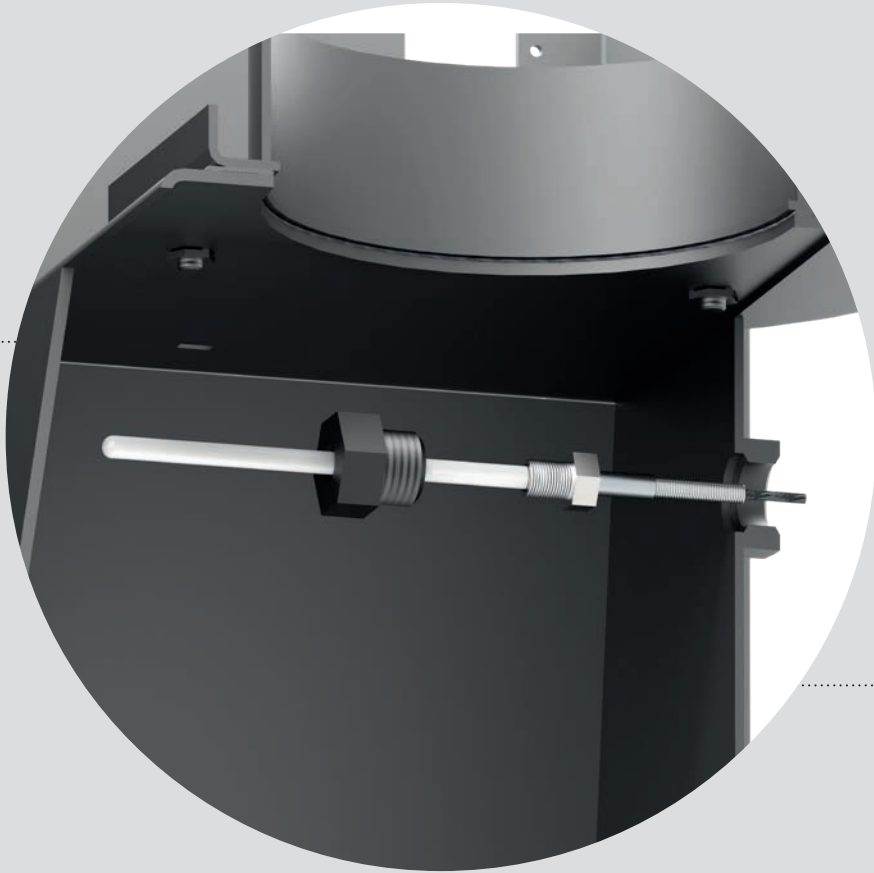
Surface treatment of visible parts with water-based eco-friendly paint with 600 °C resistance

Surface treatment of the body with eco-friendly paint with 600 °C resistance

senotherm®
| UHT |

Materials and technology for accumulation operation

All of our fireplace inserts are built robustly and in a technically sophisticated way to withstand accumulation operation without any problems.



On most models, the high temperature sensor carrier can be removed through the firebox, which means that the sensor can be replaced even after the product is installed in the fireplace shell without inspection holes

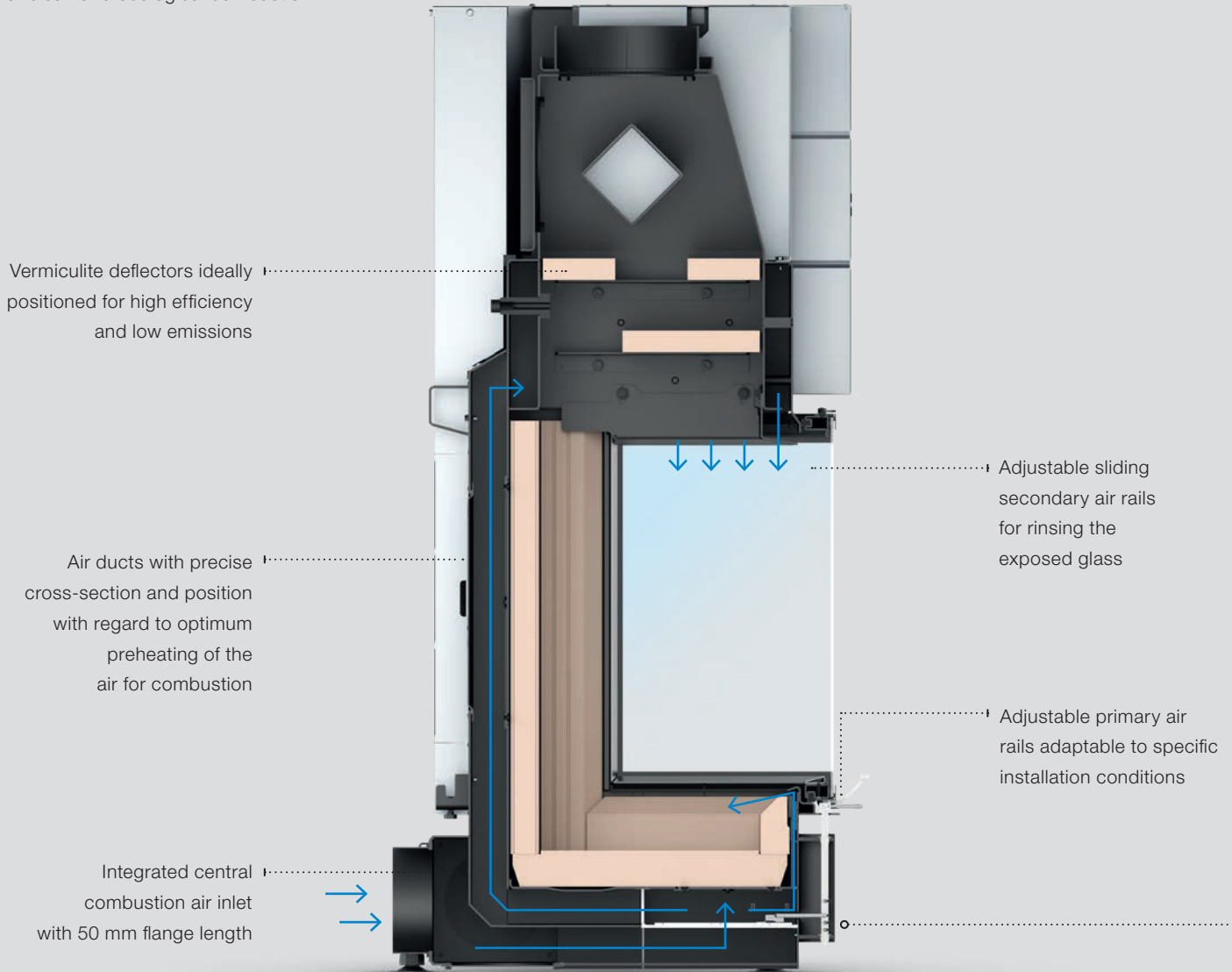
Boiler steel

The bodies of our fireplace inserts are made of P265GH boiler steel, which contains more chromium and nickel. This makes them stronger and allows them to be exposed to high temperatures for longer periods of time. We also produce most functional components from boiler steel.



Air ducting into the firebox

The combination of correct combustion air ducting, flue gas extraction piping, and an ideally tight firebox is the prerequisite for clean and ecological combustion.



Quiet and precise control

We pay great attention to the design of the controls used during each operation. We have designed the control system to work reliably and safely. The air control is always serviceable through the firebox.



Sophisticated liftdoor mechanism

The door is pressed against the frame with a spring mechanism during closing. Each of the four springs extends a carrier with two bearings that travel on stainless steel rails. The spring mechanism absorbs deformations resulting from the thermal load. So the operation of the mechanism is smooth and the firebox is still sufficiently tight. The liftdoor mechanism can be thoroughly inspected through the firebox and the top lift pocket.




Convection jacket

Selected models with a liftdoor mechanism can be equipped with a galvanized steel convection jacket for more efficient distribution of hot air.

Available models with a convection jacket

HAKA 89/72	HAKA 78/57T	UKA 37/75/37/57
HAKA 89/45	HAKA 110/51T	UKA 37/95/37/57
HAKA 78/57	ECKA 67/45/51	UKA 37/125/37/57
HAKA 110/51	ECKA 76/45/57	UKA 86/50/86/52
HAKA 150/51	ECKA 90/40/40	



Stainless steel running rails
made of 2.5 mm thick steel with
a ramp end to press the door
against the frame

Dual plain bearing
carrier with temperature
resistance of 350 °C

Pulley with groove
for wire and bearing
with a resistance
of 350 °C

Stranded steel wire
with a high strength
of 5.8 kN



A thrust spring designed in a shape ensuring
flawless functionality throughout the working range
without contact with the bearing pin



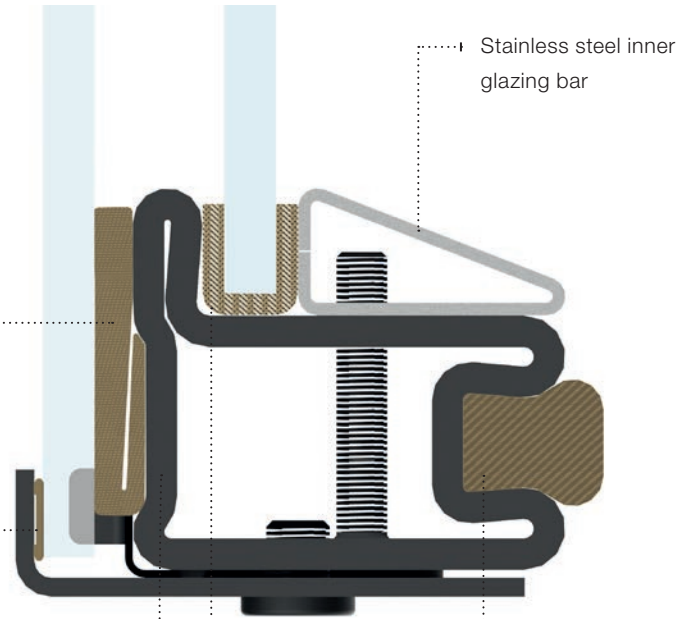
A tight door

A stable and durable door profile is the basis for success in fireplace tightness. Our enclosed door profile with a material thickness of 2.5 mm provides the stability of these properties even with larger door sizes and high temperature loads.

Outer glass seal with a thicker part that fits into a groove in the profile and a thinner part that fills the space between the glass and the door profile

Seals to ensure expansion of the outer glass from the metal parts

Groove fixing the seal in a permanent position in the door profile



U-shaped gasket to ensure the expansion of the inner glass from the metal parts

Robust door seal fixed in the tapered groove of the door profile

Culimeta



Firebox lining

We only use materials fired at temperatures above 1,000 °C to guarantee zero residual moisture, which could lead to damage to the lining.

Nyrolit

- Thickness 30 mm
- Refractory concrete with high thermal and mechanical resistance
- Use for "N" model combustion chambers, "G" model deflectors, and HAKA 63/51(W)a lining

NYROLIT®

Dark chamotte

- Dark coloured mixture throughout the complete volume
- Thickness 40 mm
- Tongue and groove joint system

RATH

Light chamotte

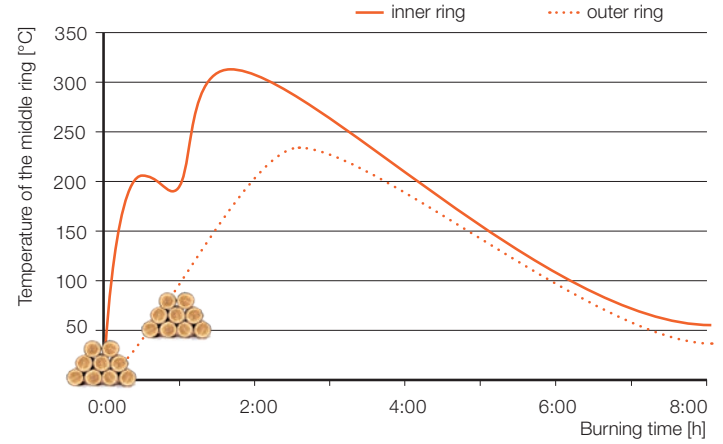
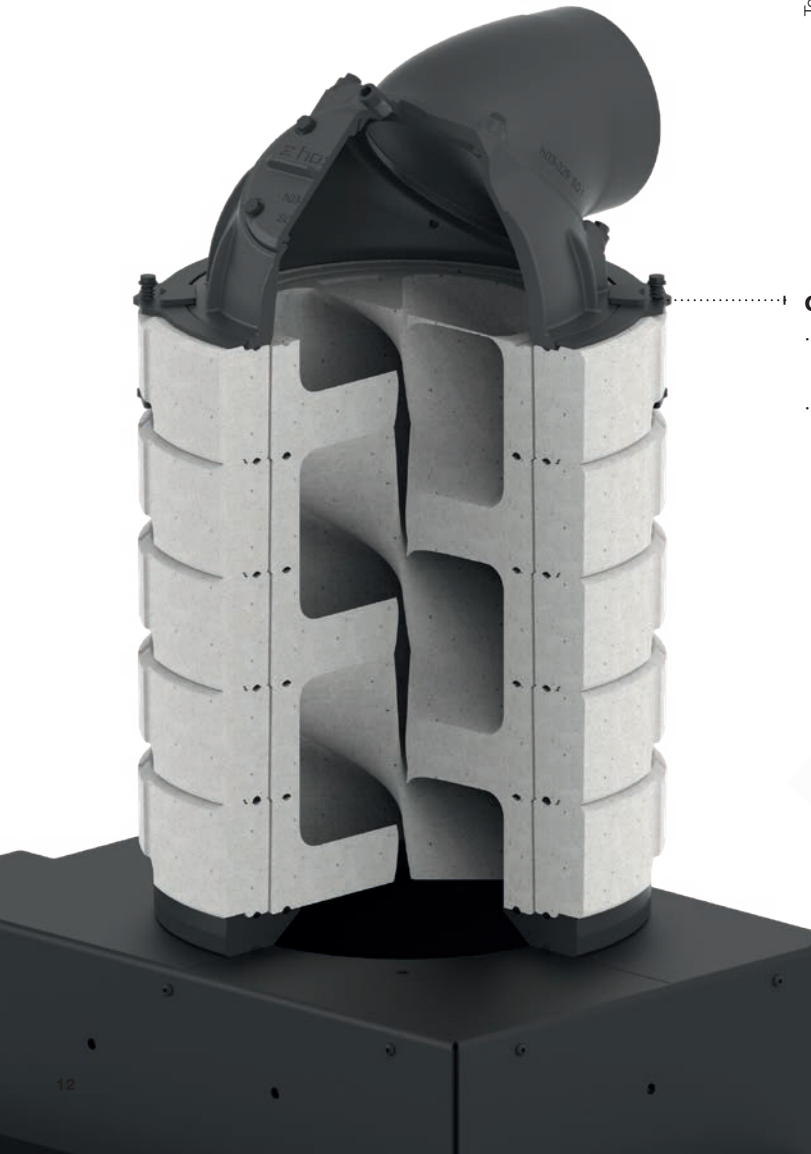
- Thickness 40 mm
- Tongue and groove joint system


Wolfshöher
TONWERKE



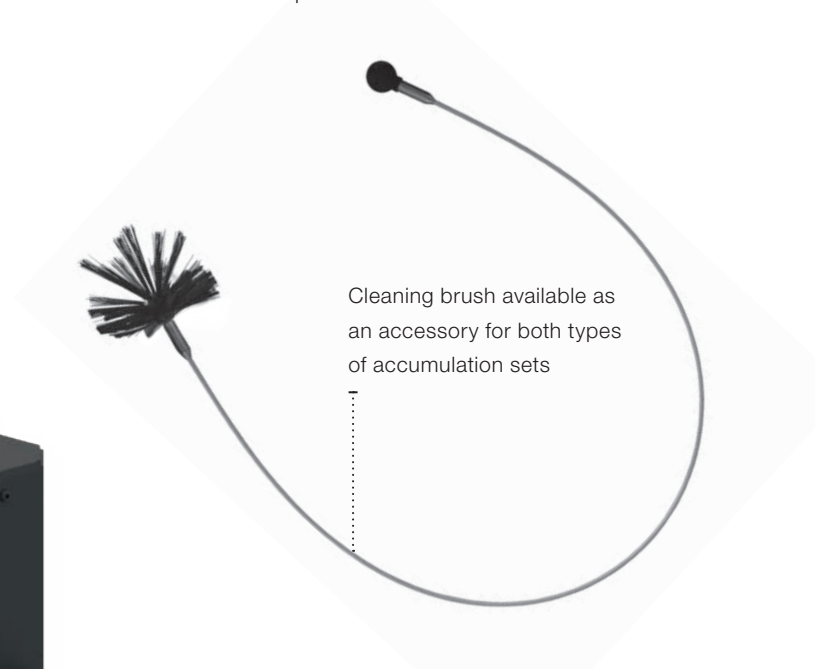
Accumulation sets

80% of our models can be equipped with an accumulation set or S-accumulation set. The type of accumulation set and the number of rings used can be adjusted according to the building conditions and the fireplace insert type.



Compact solution

- Flue gases flow in the accumulation body in a spiral to minimise draft loss
- The fired material and double-walled ring design ensures safe operation and an accumulation time of up to 8 hours



Accumulation set

- 5x accumulation ring
- Cast iron adapter
- Cast iron cupola ø180 mm with cleaning hole



Total weight
156 kg

S-accumulation set

- 5x accumulation ring
- Cast iron adapter
- Cast iron cupola ø180 mm with cleaning hole



Total weight
105 kg

Cleaning hole
ø125 mm

Spring
clamping system
for expansion

Input for high
temperature sensor

ø 440 mm
weight 25 kg



ø330 mm
weight 16.5 kg



NYRO|LIT®

Accumulation ring

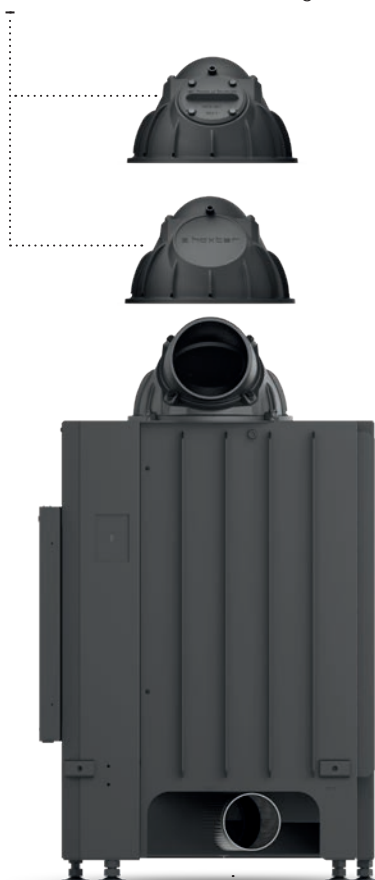
- Double-walled design
- Volume weight 2,700 kg/m³
- Production firing temperature 1,100 °C
- Connection through a sealing cord using a tongue and groove system

Models with optional heat exchanger

The fireplace inserts with a standard firebox size suitable for all types of buildings, for which it is possible to adapt the exchanger type – cast iron cupola, hot air exchanger, accumulation set.

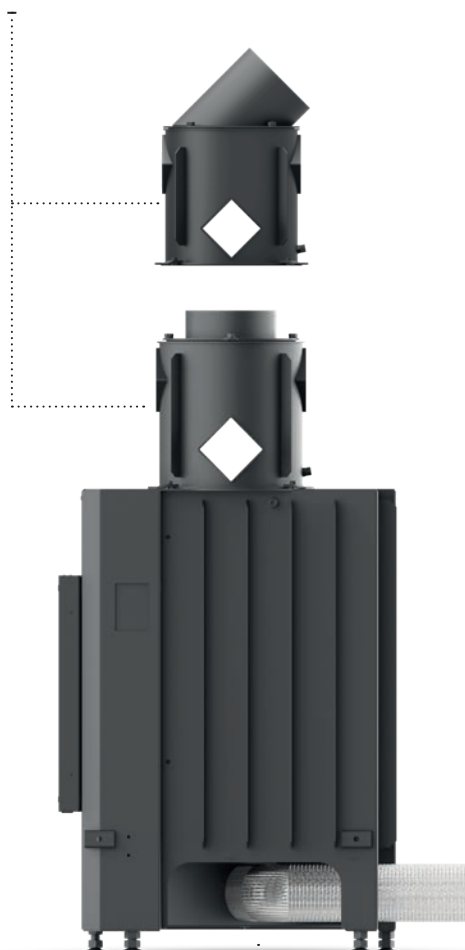
Cast iron cupola

- Connection $\varnothing 180$ mm
- Adjustment range horizontally 360° /vertically $0-90^\circ$
- A variant without/with cleaning hole



Steel hot air exchanger

- Connection $\varnothing 150 / 180 / 200 / 250$ mm
- Vertical or 45° connection



Accumulation set

- 5x accumulation ring
- Cast iron adapter
- Cast iron dome $\varnothing 180$ mm with cleaning hole
- Total weight 156 kg



Integrated air inlet flange for combustion

- Flange length 50 mm
- Connection $\varnothing 125 / 150$ mm

Models with integrated hot air heat exchanger

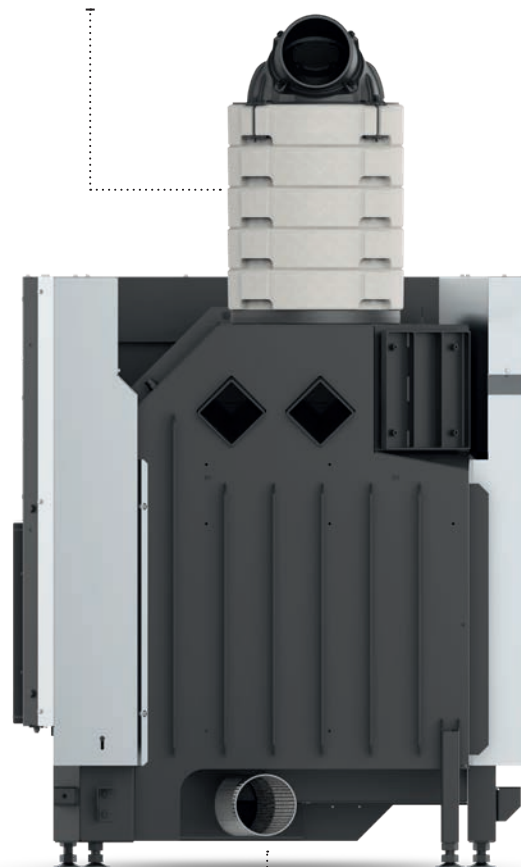
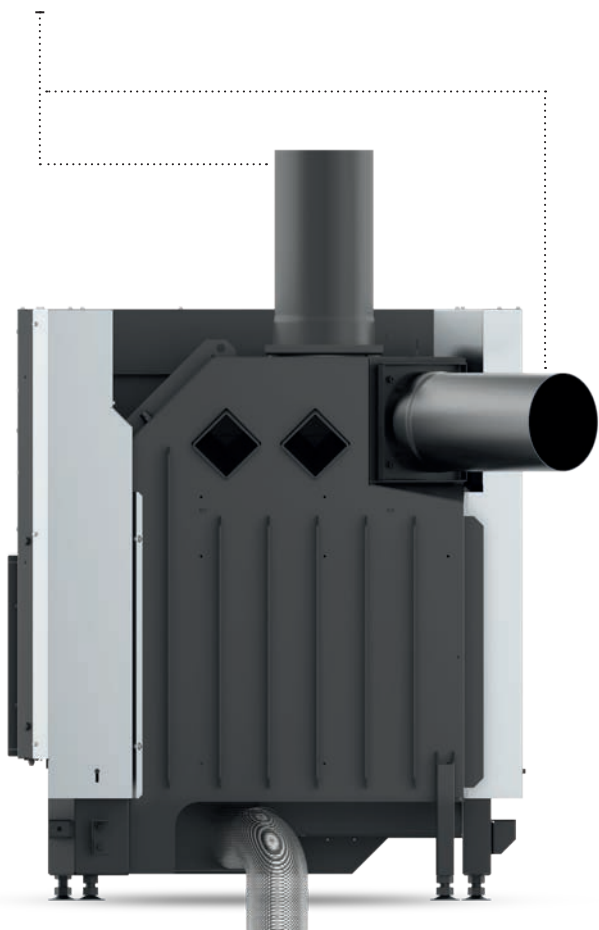
Fireplace inserts with a small installation depth or, vice versa, with large dimensions have the heat exchanger integrated into the body. These models are designed for direct connection to the chimney, some of them for connection of the accumulation mass at increased fuel doses.

Flange for smoke outlet

- Connection $\varnothing 150 / 180 / 200 / 250$ mm
- Optional horizontal or vertical connection
(for ECKA and selected UKA models)

S-accumulation set

- 5x S-accumulation ring
- S-cast iron adapter
- Cast iron cupola $\varnothing 180$ mm with cleaning hole
- Total weight 105 kg

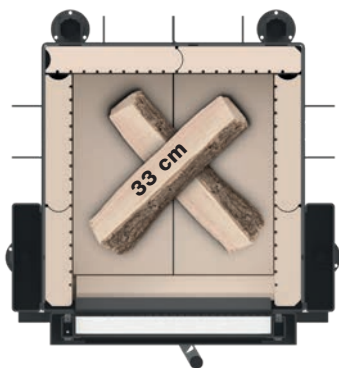


Integrated air inlet flange for combustion

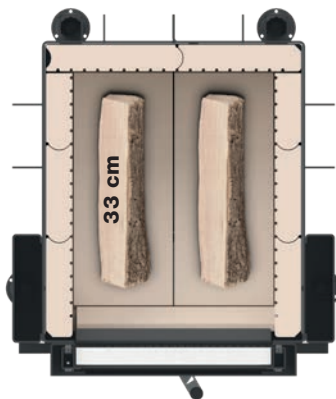
- Flange length 50 mm
- Connection $\varnothing 125 / 150$ mm

Models with deep fire chamber "G"

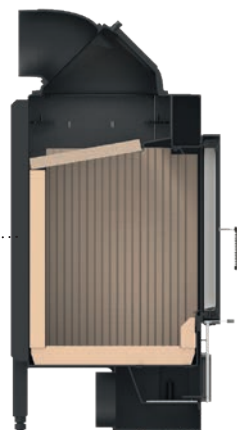
Fireplace inserts with the G identification have an increased fire chamber depth. This variant is designed for higher fuel batches and longitudinal feeding of 33 cm logs.



Standard fire chamber
HAKA 37/50



Deep fire chamber
HAKA 37/50G



Models with
deep fire chamber "G"



HAKA 37/50G

Models with a secondary burning chamber "N"

NYROLIT®

For even higher fuel doses, some fireplace inserts are equipped with a secondary burning chamber made of fired NYROLIT refractory concrete, which protects the upper part of the body. The inserts equipped in this way are designed for fuel batches of up to 8 kg and draft systems up to 5.5 m long.



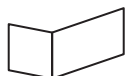
Models with secondary burning chamber "N"



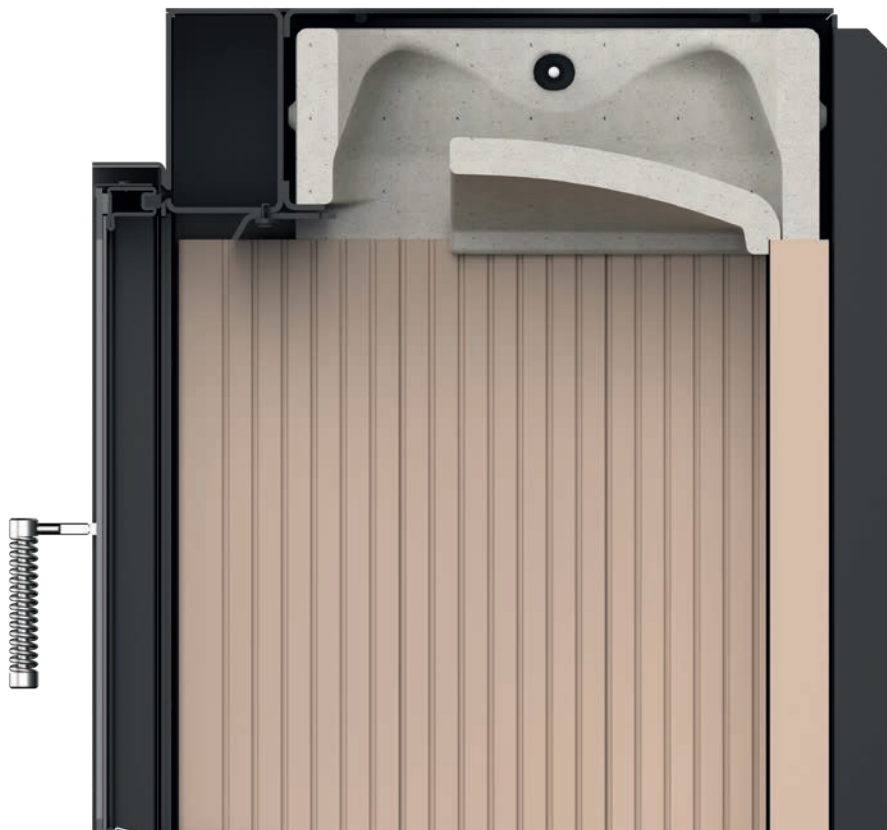
HAKA 37/50GN



HAKA 67/38N

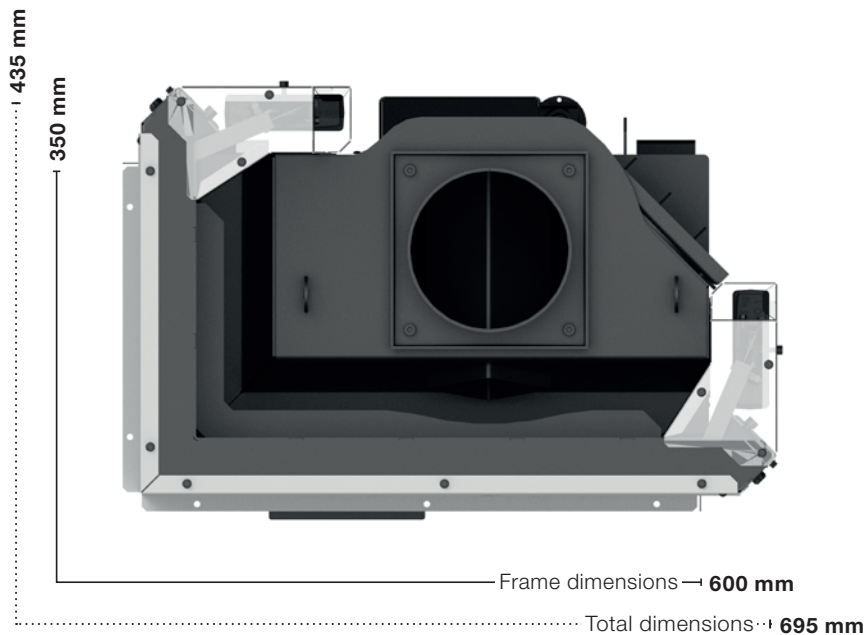


ECKA 70/40/38N



Models with small installation depth "S"

The S series fireplace inserts are characterised by a low power output with the possibility of accumulation and generous glazing with a compact installation size. Medium heat output 1–2 kW/hr at accumulation operation.



Models with smaller installation depth "S"



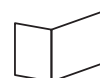
HAKA 60/50S



HAKA 60/50ST



HAKA 80/50S



ECKA 60/35/50S



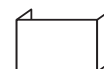
ECKA 80/35/50S



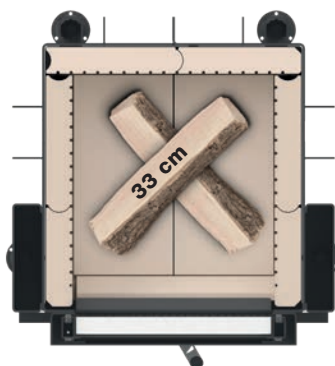
UKA 35/45/35/50S



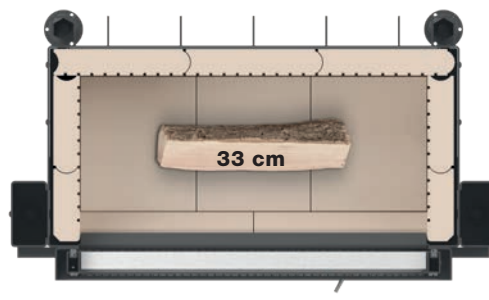
UKA 35/60/35/50S



UKA 35/80/35/50S



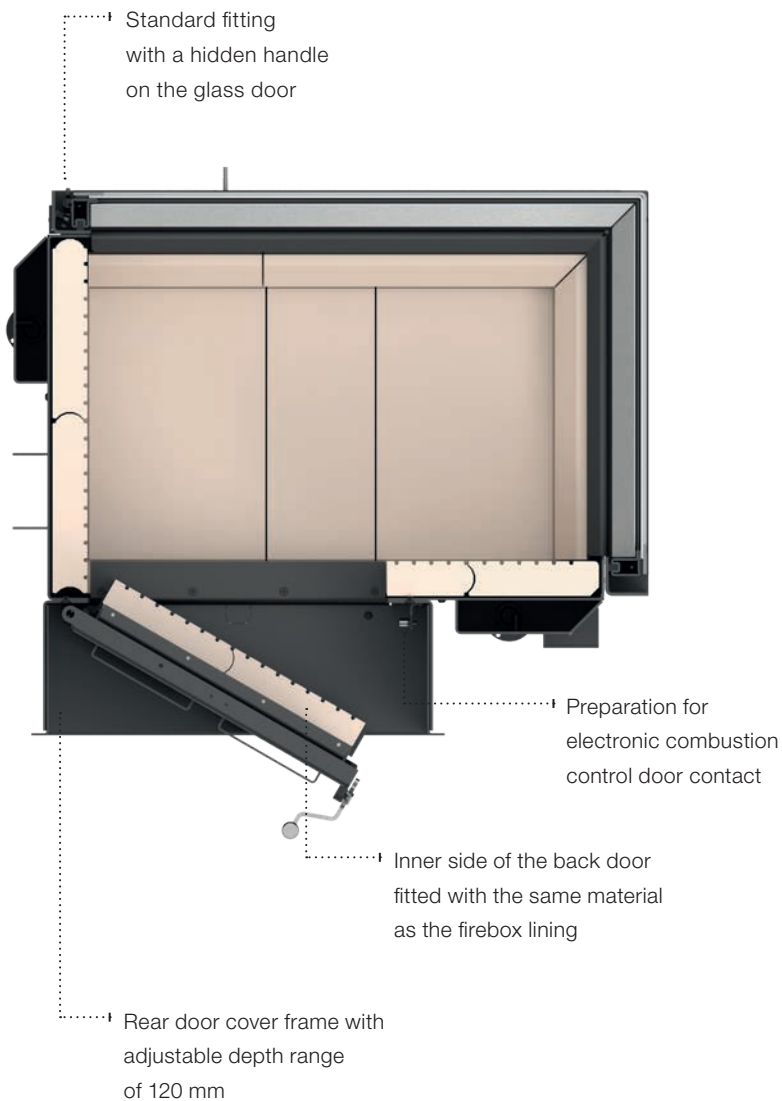
Standard fire chamber



Fire chamber with smaller installation depth

Models with rear feeding "a"

Our philosophy is to only offer meaningful solutions. The rear feeding system with a handy large rear door is one of them. The high-quality external and internal design ensures that the door is fully integrated into the chamotte lining.



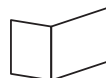
HAKA 63/51(W)a

- Rear door dimensions (W × H) 532 × 402 mm
- Rear door hinges on the left without the possibility of change



HAKA 78/57a

- Rear door dimensions (W × H) 449 × 536 mm
- Rear door standard hinges on the left with the possibility of change



ECKA 67/45/51a

- Rear door dimensions (W × H) 449 × 536 mm
- Rear door standard hinges on the left with the possibility of change



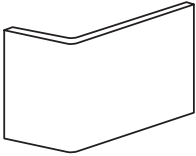
HAKA 89/45a

- Rear door dimensions (W × H) 590 × 420 mm
- Rear door standard hinges on the left with the possibility of change

ECKA corner models

All Hoxter fireplace insert doors are equipped with special ceramic glass designed for high temperatures.

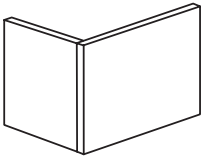
SCHOTT



1-piece formed door

1-piece glazing is our standard. The door glass is made of single piece with a visible radius in the corner.

The stable tightness of the door and the cleanliness of the glass are clear benefits.

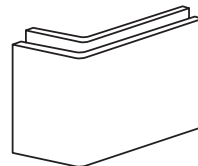


2-piece split door

2-piece split glazing is a more affordable design.

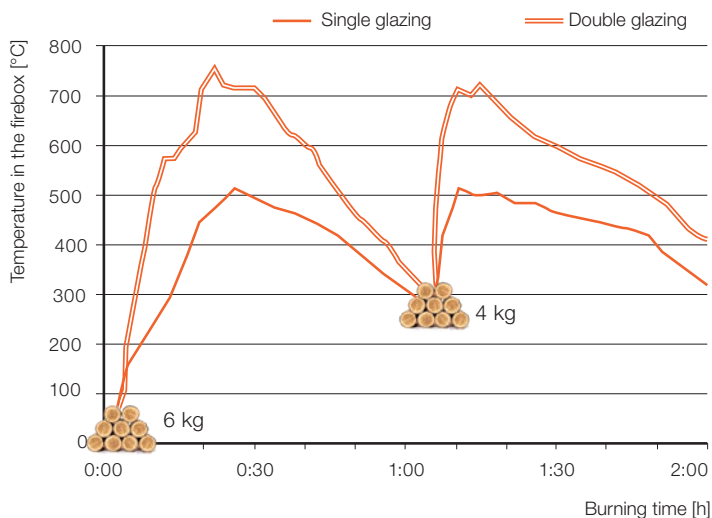
Two separate glass panes are set together in the corner and form a sharp edge. This design allows the glass to expand thus making it more resistant to rough handling.





Double glazing

Double glazing is formed by two 1-piece glass panes one behind the other as thermal insulation. Up to 1/3 less heat passes through the double glazing into the room.



Why double glazing?

Double glazing provides better insulation, lets less heat into the room and increases the temperature in the firebox. Combustion then becomes more efficient and cleaner and the outlet temperature to the accumulation superstructure is higher. The room is not heated excessively.

These values were measured for the ECKA 67/45/51W model with a fuel load of 6 kg + 4 kg.

Glass cleaning sponge

We recommend cleaning the ceramic glass dry using the special sponge included in the packaging of each of our products or available from our sales partners.



Three-sided UKA models

By continuous improvement, with the UKA models we have achieved superior firebox tightness, minimal temperature deformation, better seal protection against damage, and a clean design.



The support structure is fixed to the cooled parts of the body with permanent shape stability during operation

Build-on frame

- The adjustable top part is not firmly connected to the body
- The bottom part positioned under the door creates a clean exposed detail
- Load capacity up to 200 kg for support of the accumulation installation fireplace shell
- Thickness 4 mm (8 mm for UKA 37/125/37/57)
- Width 70 mm
- 3 design variants

3-sided



5-sided



8-sided



Securing the side glass panes

The door glass panes are set using an eccentric screw and a locking lever. This mechanism can be easily adjusted at any time so that the glass panes fit together exactly to ensure a leak-free firebox. The locking lever is made of stainless steel with a Teflon coating.



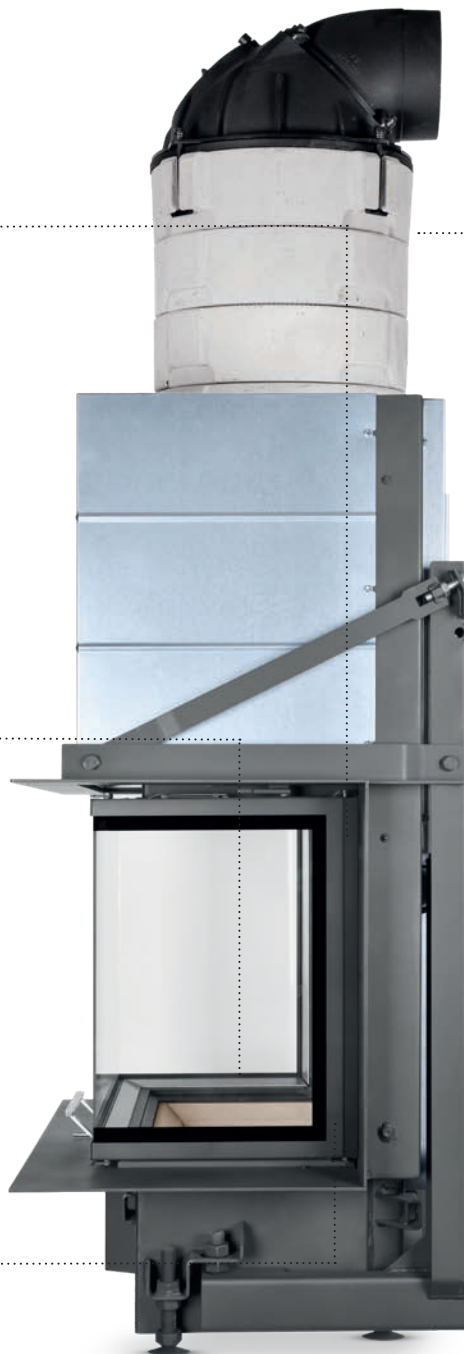
A removable cover strip covers the door mechanism area



A protective strip protects the seal against heat from the firebox, ash, and aggressive cleaning agents



The rear corners of the door are sealed with a moulded bar with the possibility of adjustment



In addition to a unique design, selected UKA models in combination with the compact S-accumulation set have a higher utility value in terms of thermal efficiency

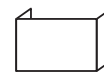
UKA models available with S-accumulation set:



UKA 35/45/35/50S



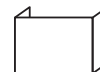
UKA 35/60/35/50S



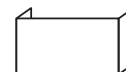
UKA 35/80/35/50S



UKA 37/55/37/57



UKA 37/75/37/57



UKA 37/95/37/57



UKA 56/50/56/52

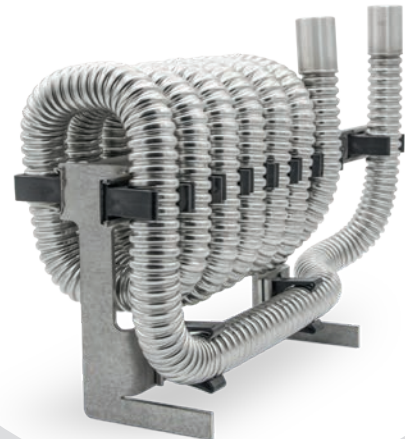
Water heating fireplace inserts

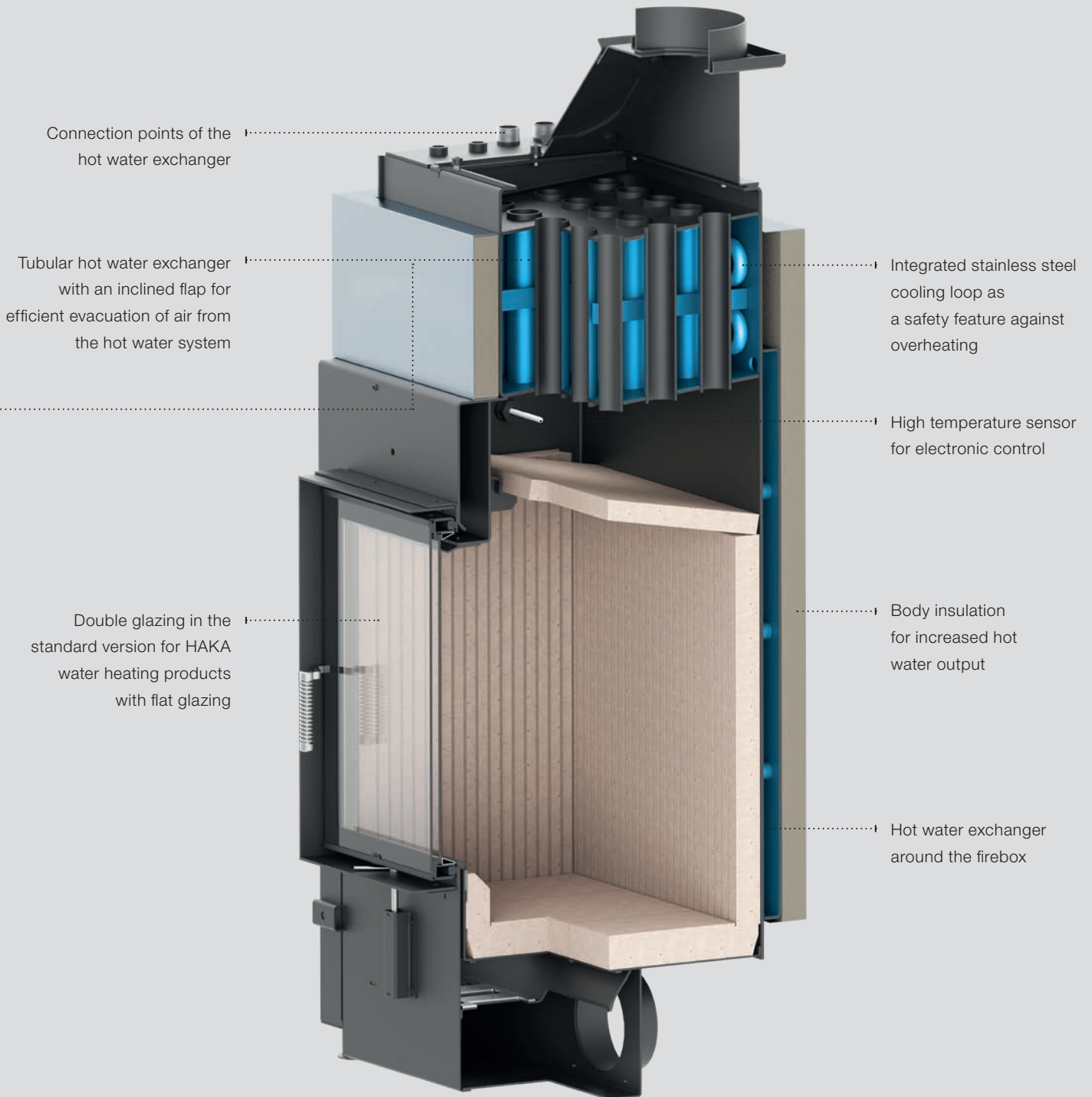
We try to do things in the right way, which is why we utilise the maximum possible hot water output with our hot water fireplace inserts. We work exclusively with a tubular vertical heat exchanger, where the heat transfer to the water is the most efficient. In most models, the heat exchanger is also integrated into the walls of the fireplace insert. For a higher proportion of output into the water, all models with front glazing are fitted with double glazing in the standard version.



Stainless steel cooling loop

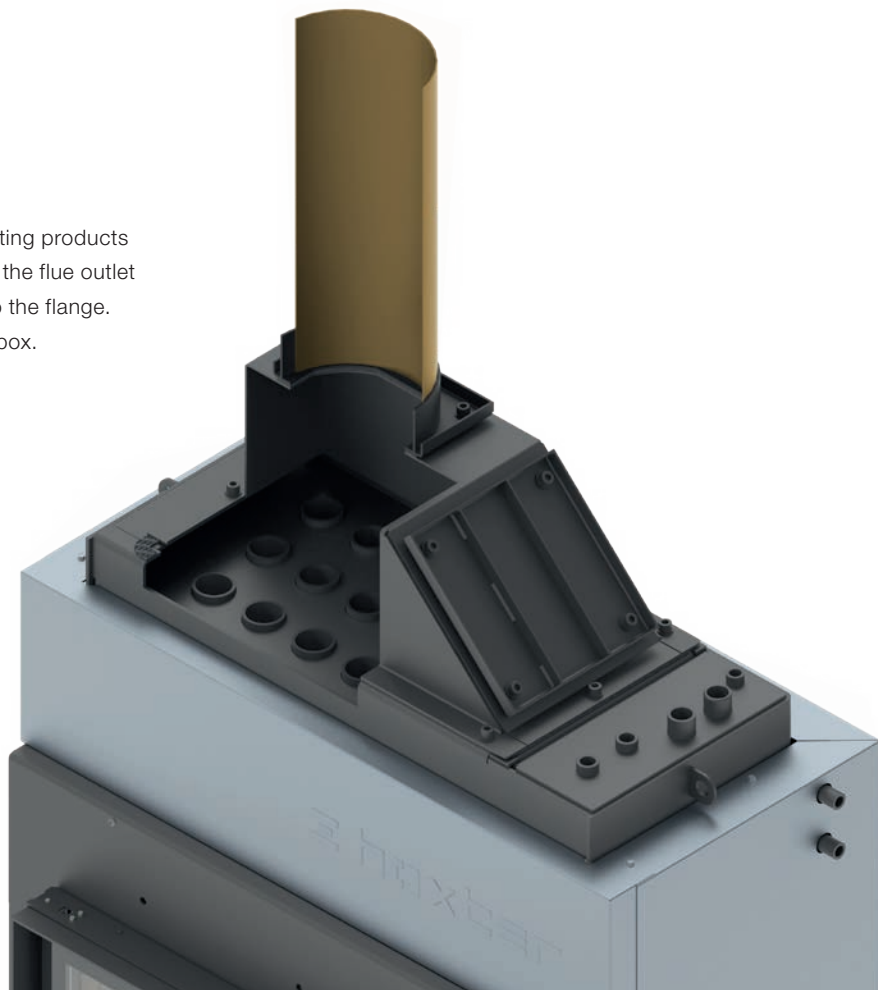
Each of our hot water products is equipped with an integrated cooling loop, which is made of stainless steel resistant to corrosion and fouling.





Connection after water

Condensation of flue gases can occur in water heating products due to high efficiency. We therefore have designed the flue outlet so that the connecting flue gas pipe is inserted into the flange. In this way, any condensate is directed into the firebox.



Part of the water heating models package

All our hot water products include in the standard package:

- a brush for cleaning the hot water exchanger
- a thermostatic valve for the aftercooling loop
- a 2.5 bar safety valve
- a venting valve





Heat exchanger insulation "I"

For an even higher proportion of output into water, product variants with a thermally insulated heat exchanger are available. The insulation prevents unnecessary heat loss to the surroundings of the insert thus increasing the proportion of heat absorbed into the water.

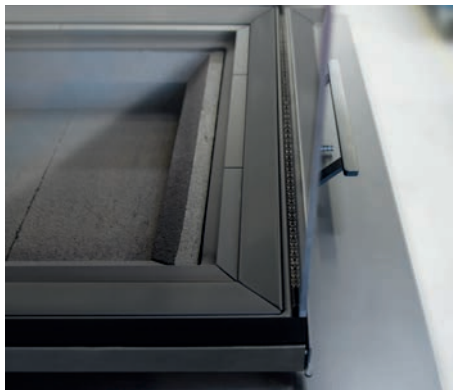
Extra power "+"

Products with enlarged air inlet cross-sections are designed for higher fuel batches. These models offer higher overall performance.

HAKA 63/51	W	WI with insulation	W+ with extra power	WI+ with insulation and extra power
Nominal power	14,5 kW	14,5 kW	22 kW	22 kW
Power to water	10 kW	11,3 kW	13,2 kW	17,2 kW

Design configuration

Our products can be configured to meet the needs of customers, architects, and stove fitters. All controls are available in a black teflon finish, and several handle and frame designs are also available.



Inner door bars UKA black/handle black



Stainless steel spiral handle



Flat handle black



Build-on frame black / stainless steel handle / stainless steel air control lever



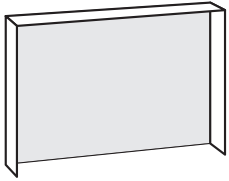
Cover frame 1 × 90° black / stainless steel handle / stainless steel air control lever

Removable handle

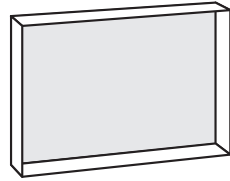
For a clean door design, we have a solution with a removable handle. A fixed storage space for the handle is provided in a housing designed for installation in the fireplace shell. The removable handle and housing are made of stainless steel.



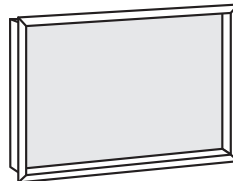
Frames overview



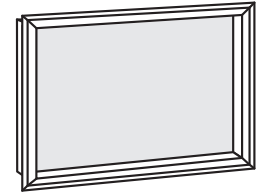
Build-on frame 3sides
Width 60 mm
Thickness 4 mm



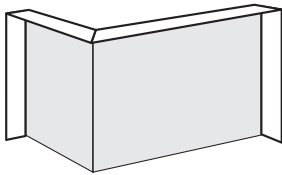
Build-on frame 4sides
Width 50, 80 mm
Thickness 4 mm



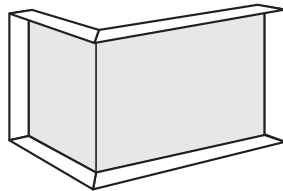
Cover frame 4sides 1 × 90°
Width 50, 80 mm



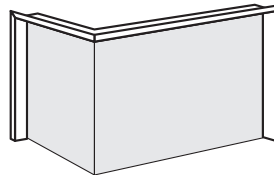
Cover frame 4sides 2 × 45°
Width 80 mm



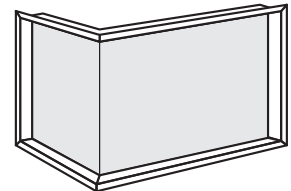
Build-on frame 4sides
Width 60 mm
Thickness 4 mm



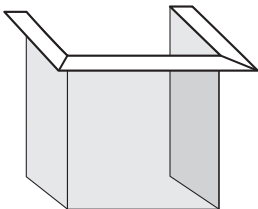
Build-on frame 6sides
Width 50, 80 mm
Thickness 4 mm



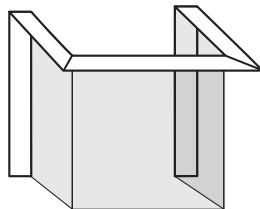
Cover frame 4sides 1 × 90°
Width 60 mm



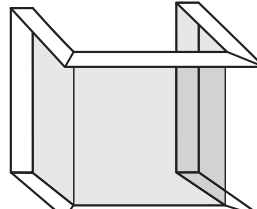
Cover frame 6sides 1 × 90°
Width 50, 80 mm



Build-on frame 3sides
Width 70 mm
Thickness 4 mm
Thickness 8 mm (UKA 37/125/37/57)



Build-on frame 5sides
Width 70 mm
Thickness 4 mm
Thickness 8 mm (UKA 37/125/37/57)



Build-on frame 8sides
Width 70 mm
Thickness 4 mm
Thickness 8 mm (UKA 37/125/37/57)

Custom production of frames

All frames can be customised to your specifications. We will inform you about the availability and price of individual customisation based on your specific order.



Contactless door sensor

The door sensor is magnetic, which means minimal maintenance and permanent functionality. We offer pre-installation of the door sensor in each of our fireplace inserts.

Electronic combustion control HOS

The best way to ensure correct and clean combustion, efficient switching of the hot water pump, and to guarantee safe operation.

Our electronic HOS control can combine several functions

- **Combustion control**
- **Electronic primary water cycle control**
- **Safety shutdown of the air handling unit**



Wireless display

The display communicates with the control unit wirelessly and does not need to be permanently installed in a specific location. This eliminates wiring and any problems with positioning on a wall.

Simple, intuitive, and fast installation

The installation is as simple as possible and takes just a few minutes. All connectors are colour coded to avoid confusion during installation. Where necessary, individual cables and temperature sensors are also colour coded.

The control unit always has preset values that allow the control to be used immediately after connection.



Overview of variants

	It monitors	It controls	Settings options
HOS A	<ul style="list-style-type: none"> · the temperature in the firebox · door opening status 	<ul style="list-style-type: none"> · the amount of air currently supplied 	<ul style="list-style-type: none"> · combustion control starting temperature · prolongation or shortening of the burning out phase
HOS U	<ul style="list-style-type: none"> · the temperature in the firebox · chimney pressure · room pressure 	<ul style="list-style-type: none"> · air handling system switching 	<ul style="list-style-type: none"> · value of the pressure difference for switching the air handling system · time interval of the measured pressure difference for air handling system switching
HOS AU	<ul style="list-style-type: none"> · the temperature in the firebox · door opening status · chimney pressure · room pressure 	<ul style="list-style-type: none"> · the amount of air currently supplied · air handling system switching 	<ul style="list-style-type: none"> · combustion control starting temperature · prolongation or shortening of the burning out phase · value of the pressure difference for switching the air handling system · time interval of the measured pressure difference for air handling system switching
HOS AW	<ul style="list-style-type: none"> · the temperature in the firebox · door opening status · water temperature in the exchanger · water temperature in the accumulation tank 	<ul style="list-style-type: none"> · the amount of air currently supplied · circulation pump switching 	<ul style="list-style-type: none"> · combustion control starting temperature · prolongation or shortening of the burning out phase · temperature and temperature ratio for pump switching
HOS AWU	<ul style="list-style-type: none"> · the temperature in the firebox · door opening status · water temperature in the exchanger · water temperature in the accumulation tank · chimney pressure · room pressure 	<ul style="list-style-type: none"> · the amount of air currently supplied · circulation pump switching · air handling system switching 	<ul style="list-style-type: none"> · combustion control starting temperature · prolongation or shortening of the burning out phase · temperature and temperature ratio for pump switching · value of the pressure difference for switching the air handling system · time interval of the measured pressure difference for air handling system switching

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