Installation Manual

BKH 5.0 flat
50-162

green

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1 BASIC INFORMATIONS

All instructions delivered with products must be observed. We do not accept any warranty claim or liability for damage resulting from failure to observe these installation instructions!
Improper installation can cause injury and material damage!

The floor space of the room must have a suitable structure and sufficient dimensions to ensure proper functioning of the fireplace.

Please note that other installation and assembly instructions are included in other packaging units!

Dimensioning of downstream heat accumulator must be according to valid stove-setting rules.

During installation of the fireplace, all dimensions and minimal clearances of the fireplace casing must be held as specified by the manufacturer.

All binding national or EU standards and local regulations for the installation of fireplaces must be observed.

All valid stove fitting rules and regulations of local construction law must be observed and followed.

Please follow the relevant regulations of your country.

When these instructions are followed and all works are done properly, this will ensure a safe, energy-saving and environmentally friendly operation of the stove. Pictures shown are not to be considered as complete representations of any kind.

Subject to technical and assortment changes.

Please notify your supplier of any damage which might have occurred during transport.

Please keep these instructions.

Please also take note of the online product documentation provided by:

General instructions of the Brunner products installation for the stove construction.

(https://www.brunner.de/produktdownloads/kacheloefen-kamine/allgemeine-hinweise-fuer-den-aufbau_de.pdf) laden können.

1.1 SPECIFIED SYMBOLS

In this documentation, a distinction is made between:

Operating personnel as the **User of the system**, i.e. the end user, which has received instructions from the Contractor and does not necessarily have additional qualifications.

Operating personnel as the **Contractor**, i.e. the qualified professionals, which are entitled to perform the indicated specialist works.

In this document, the following symbols are used:



DANGER
A danger of high risk persists, which leads to severe injury or death, if this endangering situation is not avoided.

WARNING
A danger of medium risk persists, which can lead to severe injury or death, if this endangering situation is not avoided.

CAUTION
A danger of low risk persists, which can lead to minor or moderate injury, if this endangering situation is not avoided.



ATTENTION
There is a certain risk, which can lead to a malfunction or damage of the related system and all devices connected with it, if the indicated notifications are not followed.



NOTE

Additional helpful information

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2 SAFETY

2.1 SAFETY PRECAUTIONS

Fireplaces may be set up only in rooms or areas with no risk of danger due to their location, structure or intended use.

Working on the stove	Installation, commissioning, servicing and maintenance works on the product may be carried out only by an authorized stove-fitter. Safety and efficiency of the system depend on this!
Working with electronics	Switch off the emergency switch or circuit breaker, and secure them against switching on again.



Fireplaces with external air supply are not independent from room air supply and must be considered and designed as roomsealed fireplaces. In connection with a ventilation or extraction system, we recommend the use of a negative pressure safety device (Art.No.: 11600.1).

Installation must be carried out by an authorized stove-fitter, because safety and efficiency of the system depend mostly on proper installation of the product. All valid stove fitting rules and regulations of building law must be observed and followed. Make sure to instruct the owner or user about the functions and controls of the system and possibly installed safety devices.

Fireplaces must be built to ensure safe operation and fire safety in order to eliminate possible risks and unacceptable loads. They have to be ready for use over an adequate period of time.

Make sure to instruct the owner or user about the functions and controls of the system and possibly installed safety devices.

Remember to use only genuine replacement parts.

2.2 FIRE PROTECTION

The thermal insulation listed in the fire protection information is implemented with substitute insulation material in the form of calcium silicate boards (e.g. brands: Promasil, Silka, Skamol).

If a different insulating material is used (e.g. vermiculite), the manufacturer's specifications must be used for conversion to the installed insulating material.

The thermal insulation for non-combustible add-on walls and ceilings is based on the requirements of TROL (Germany).

For extension walls made of combustible building materials, fire protection can also be provided in a version with active rear ventilation. This variant has been tested and is created with an insulation thickness of 5 cm. It is important to ensure that air flows across the entire width and height.

The room air must be able to flow in at the bottom and out at the top. The air inlet and outlet openings (cross-section 75 ^{cm2}) must not be sealable. In normal operation, the temperatures at the air outlet are below 85°C.

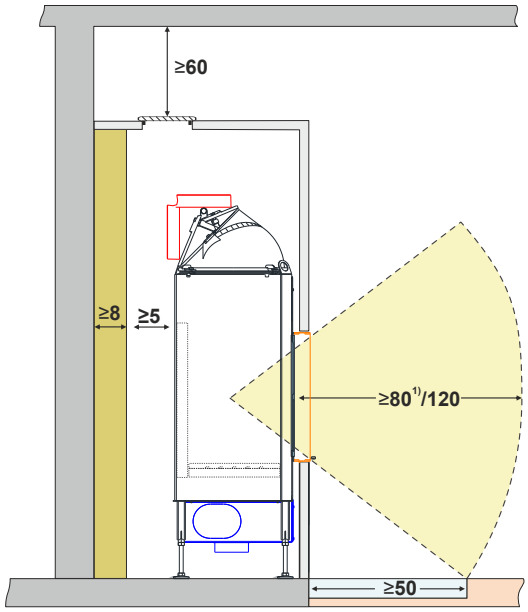
For thermally insulated add-on walls with a U-value < 0.4 $^{W/m2K}$, the fire protection must be designed with active rear ventilation.

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2.2.1 MOUNTING WALL / CEILING NON-COMBUSTIBLE

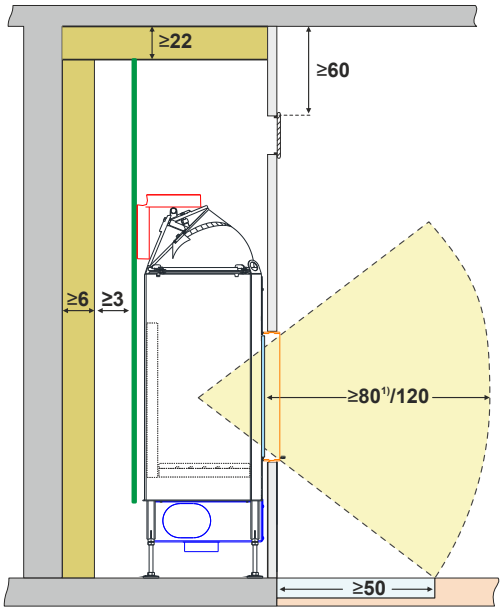
Structure: Substitute insulation material I Mounting wall / Ceiling non-combustible

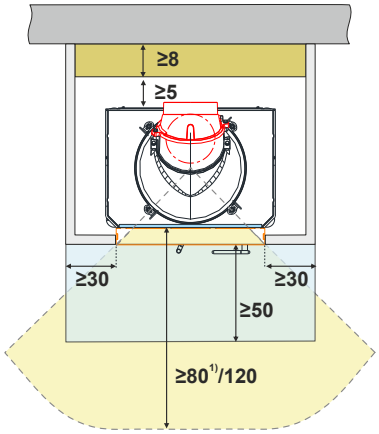
Half-height version

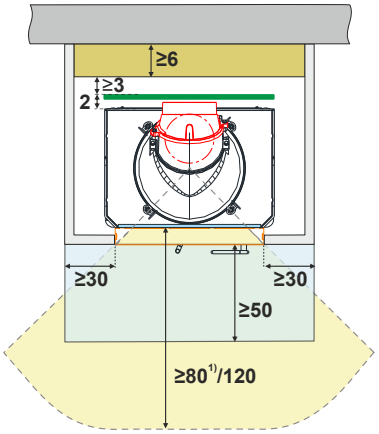


Floor-to-ceiling version

with: heat protection panel







floor/wall/ceiling non-combustible

fireplace cladding

wall/ceiling/floor/attach-ments combustible/to be protected

convection opening (fire-place cladding)

substitute insulation material calcium silicate

radiation range

heat protection panel

non-combustible flooring / floor protection pane

convection opening (active rear ventilation)

[1)] Glass ceramic coated (GKB)

All figures in cm

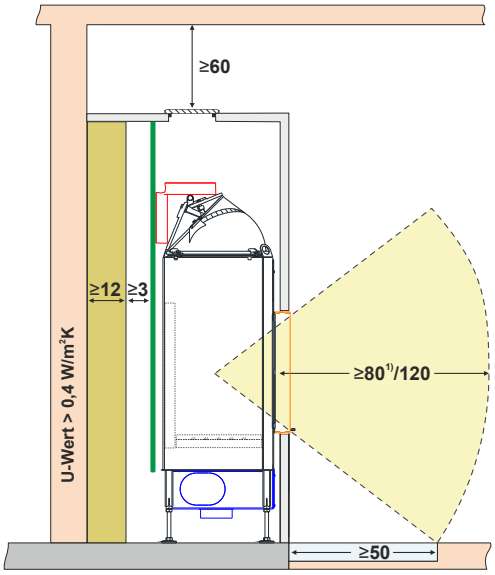
When designing the exhaust system and exhaust pipe, national standards and fire protection regulations must be observed

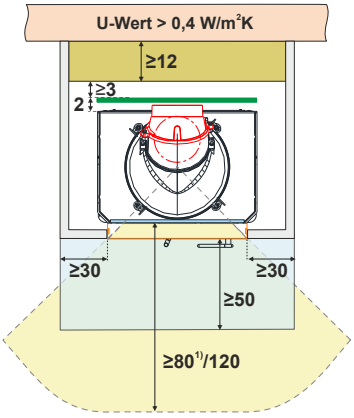
2.2.2 MOUNTING WALL / CEILING COMBUSTIBLE (U-VALUE > 0,4 W/M²K)

Structure: Substitute insulation material I Mounting wall / Ceiling combustible

Half-height version

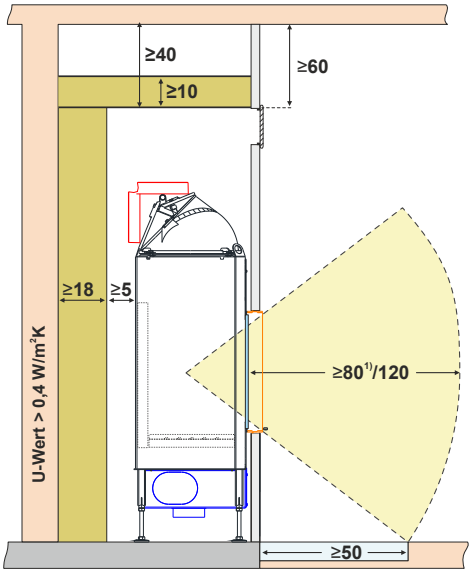
with: heat protection panel
U-value Mounting wall> 0,4 W/m²K

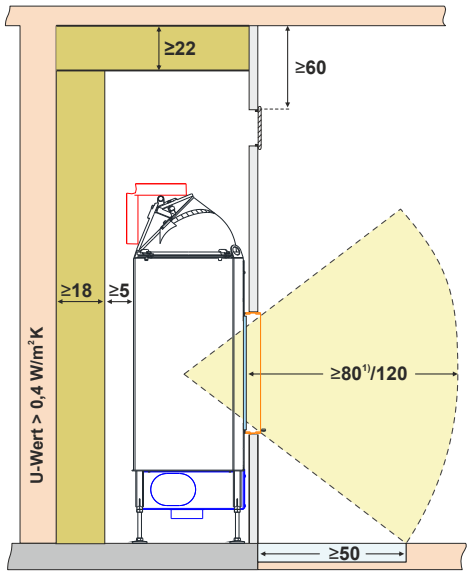




Floor-to-ceiling version

without: heat protection panel
U-value Mounting wall> 0,4 W/m²K





floor/wall/ceiling non-combustible	fireplace cladding	wall/ceiling/floor/attach-ments combustible/to be protected
convection opening (fire-place cladding)	substitute insulation material calcium silicate	radiation range
heat protection panel	non-combustible flooring / floor protection pane	convection opening (active rear ventilation)

1) Glass ceramic coated (GKB)

All figures in cm

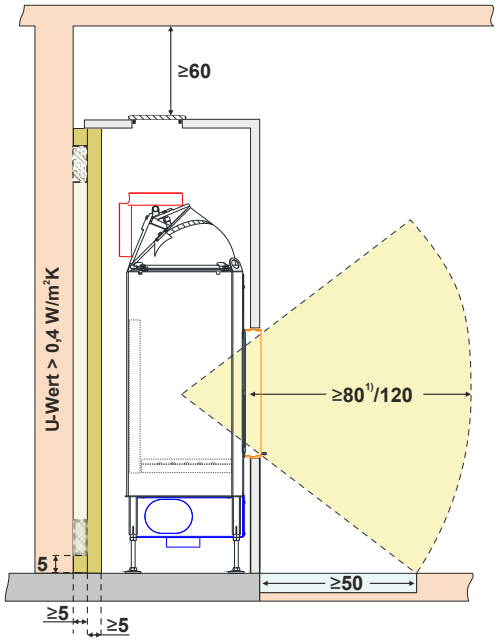
When designing the exhaust system and exhaust pipe, national standards and fire protection regulations must be observed

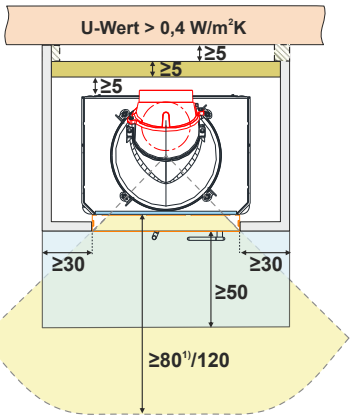
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Structure: Substitute insulation material I active rear ventilation I Mounting wall/ Ceiling combustible

Half-height version

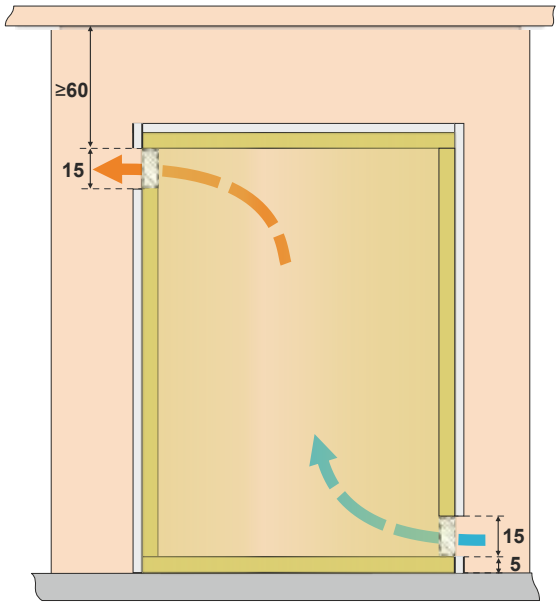
with: active rear ventilation
U-value Mounting wall> 0,4 W/m²K

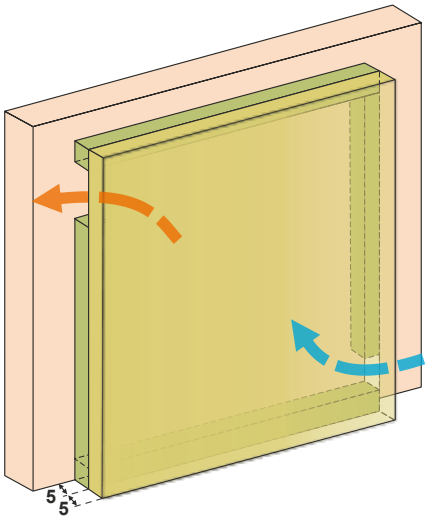




Detail:

active rear ventilation (2x75 cm²)





floor/wall/ceiling non-combustible

convection opening (fire-place cladding)

heat protection panel

fireplace cladding

substitute insulation material calcium silicate

non-combustible flooring / floor protection pane

wall/ceiling/floor/attach-ments combustible/to be protected

radiation range

convection opening (active rear ventilation)

1) Glass ceramic coated (GKB)

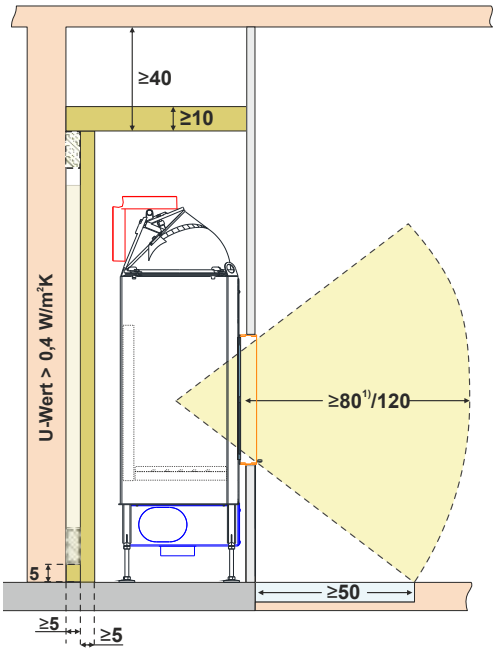
All figures in cm

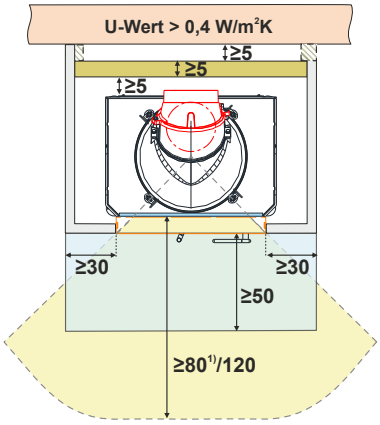
When designing the exhaust system and exhaust pipe, national standards and fire protection regulations must be observed

Structure: Substitute insulation material I aktive Hinterlüftung I Mounting wall/ Ceiling combustible

Floor-to-ceiling version

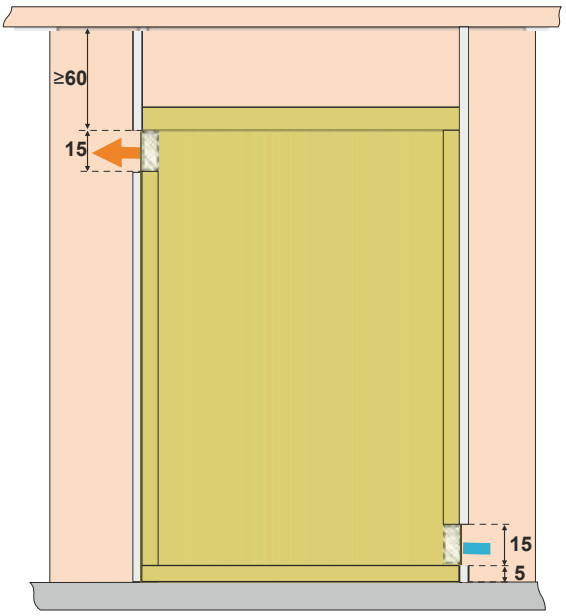
with: active rear ventilation
U-value Mounting wall> 0,4 W/m²K

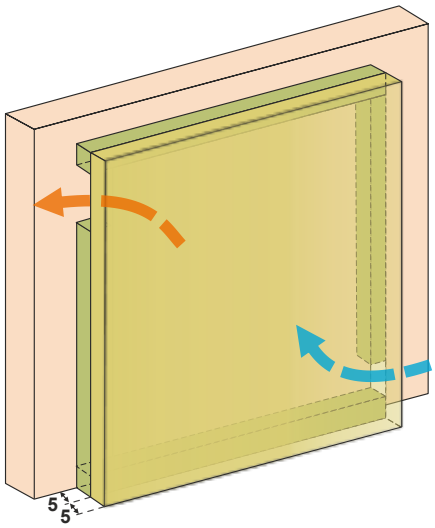




Detail:

active rear ventilation (2x75 cm²)





floor/wall/ceiling non-combustible

convection opening (fire-place cladding)

heat protection panel

fireplace cladding

substitute insulation material calcium silicate

non-combustible flooring / floor protection pane

wall/ceiling/floor/attach-ments combustible/to be protected

radiation range

convection opening (active rear ventilation)

¹⁾ Glass ceramic coated (GKB)

All figures in cm

When designing the exhaust system and exhaust pipe, national standards and fire protection regulations must be observed

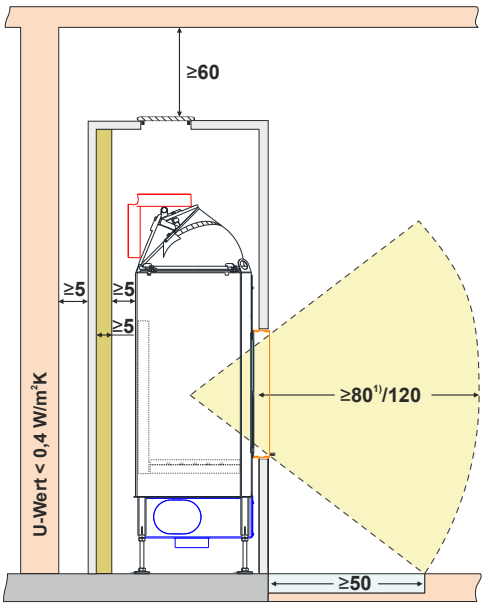
© 2025 Brunner GmbH

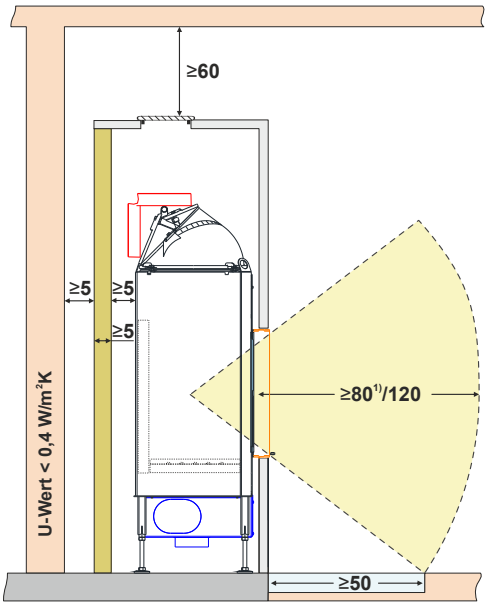
2.2.3 MOUNTING WALL / CEILING COMBUSTIBLE (U-VALUE < 0,4 W/M²K)

Structure: Substitute insulation material I aktive Hinterlüftung I Mounting wall/ Ceiling combustible

Half-height version

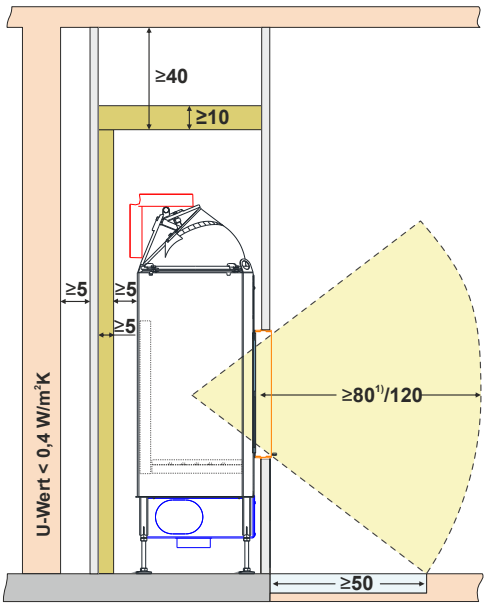
with: active rear ventilation
U-value Mounting wall< 0,4 W/m²K

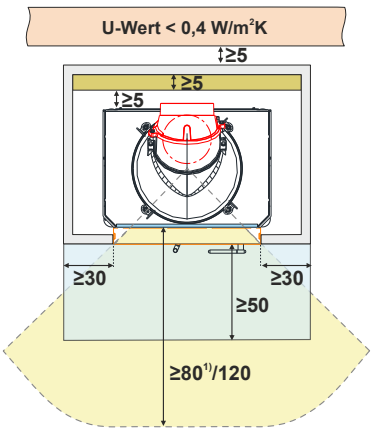




Floor-to-ceiling version

with: active rear ventilation
U-value Mounting wall< 0,4 W/m²K





floor/wall/ceiling non-combustible
convection opening (fire-place cladding)
heat protection panel
fireplace cladding
substitute insulation material calcium silicate
non-combustible flooring / floor protection pane
wall/ceiling/floor/attach-ments combustible/to be protected
radiation range
convection opening(active rear ventilation)

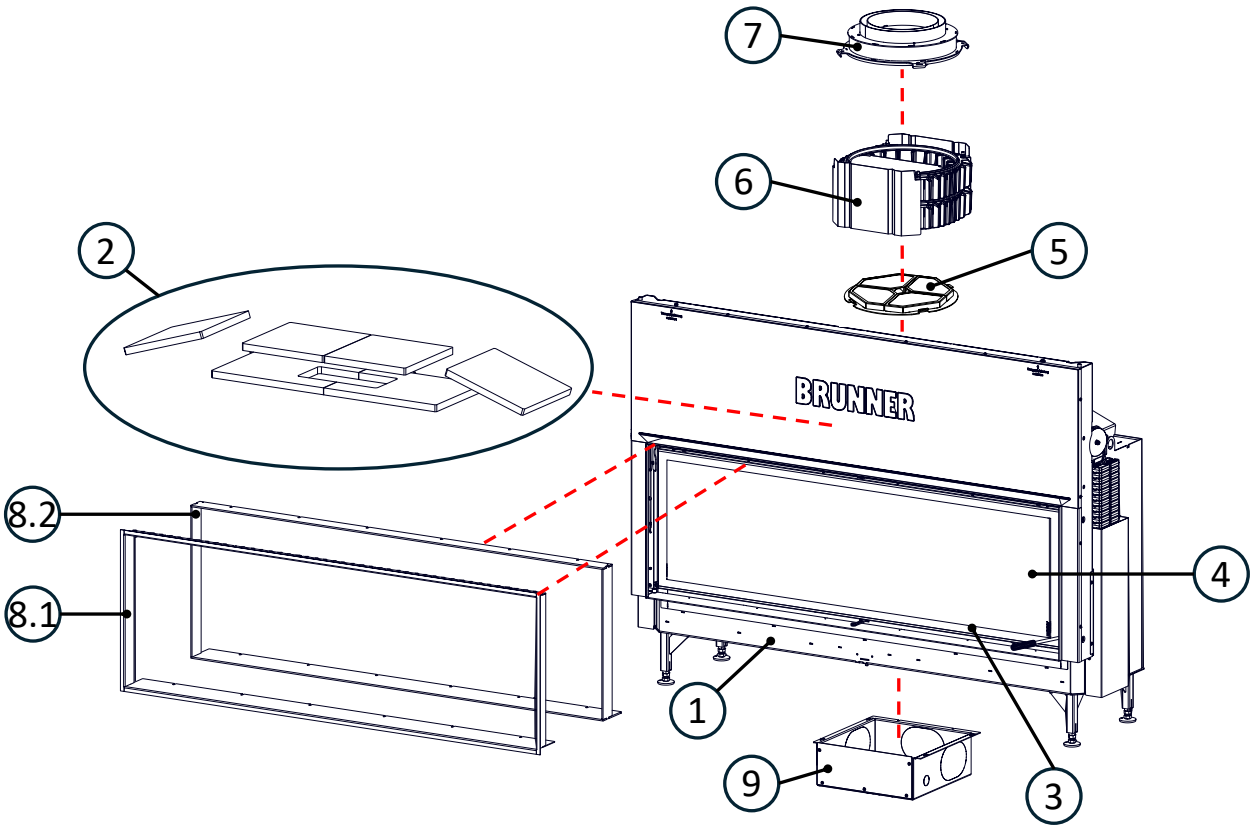
¹⁾ Glass ceramic coated (GKB)

All figures in cm

When designing the exhaust system and exhaust pipe, national standards and fire protection regulations must be observed

3 DELIVERY CONTENTS BKH 50-162 FLAT

BKH 50-162 flat with lifting door



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Pos.	Designation	Art. No. for ST
1	BKH variants:	
	BKH 5.0 flat 50-162 ST with manual operation, Ceramic glass (GK),Chamotte inner lining set (FR)	HK010002-01
	BKH 5.0 flat 50-162 ST for EAS/EOS, Ceramic glass (GK), Chamotte inner lining set (FR)	HK010002-02
	BKH 5.0 flat 50-162 ST with manual operation Ceramic glass (GK), Combustion chamber inner lining cast iron (FR/Guss)	HK010002-03
	BKH 5.0 flat 50-162 ST for EAS/EOS, Ceramic glass (GK), Combustion chamber inner lining cast iron (FR/Guss)	HK010002-04
	BKH 5.0 flat 50-162 ST with manual operation, Glass ceramic coated (GK-B),Chamotte inner lining set (FR)	HK010002-05
	BKH 5.0 flat 50-162 ST for EAS/EOS, Glass ceramic coated (GKB),Chamotte inner lining set (FR)	HK010002-06
	BKH 5.0 flat 50-162 ST with manual operation Glass ceramic coated (GKB), Combustion chamber inner lining cast iron (FR/Guss)	HK010002-07
	BKH 5.0 flat 50-162 ST for EAS/EOS, Glass ceramic coated (GKB), Combustion chamber inner lining cast iron (FR/Guss)	HK010002-08
2	Deflection	
3	Combustion chamber lining:	
	- made of Chamotte	
	- made of Cast iron	
4	Ceramic glass (GK) / Glass ceramic coated (GKB)	
5	Catalyst module BKH 5.0	HK000210
Smoke hood variants		
6	with heat exchanger rings	R015006-02
7	Connection adapter ⌀ 300 - 250	
Additional options		
8.1	Door frame, black	HK010152-01
8.2	Mounting frame, black	HK010150-01
9	Supply air connection box ⌀ 125 mm	HK000135
	Supply air connection box ⌀ 150 mm	HK000136

3.1 CATALYTIC CONVERTER (OPTIONAL)



The catalytic converters are coated with a catalytically active layer. This coating can consist of mixed metal oxides or also of precious metals. In order not to limit the effect of this catalytically active layer, the catalysts may only be handled with gloves, preferably with disposable gloves.



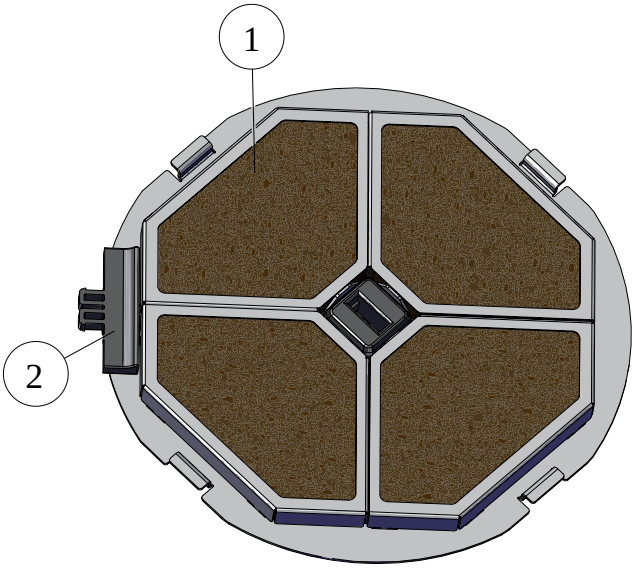
In order not to limit the effect of this catalytically active layer, the catalysts may only be handled with gloves, preferably with disposable gloves.

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ATTENTION
The catalysts are fragile and must only be handled with care. Avoid bumping and do not drop the catalytic converter. This could destroy the catalytic converter!



1	catalytic converter
2	assembly tool

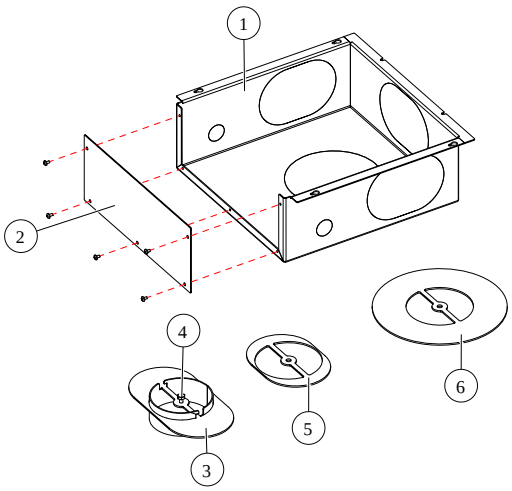
Note

This catalytic converter is suitable for all BKH units (with lifting door, with side opening door, tunnel, with cast dome, with heat exchanger cast rings and MAS).

This catalytic converter can also be retrofitted.

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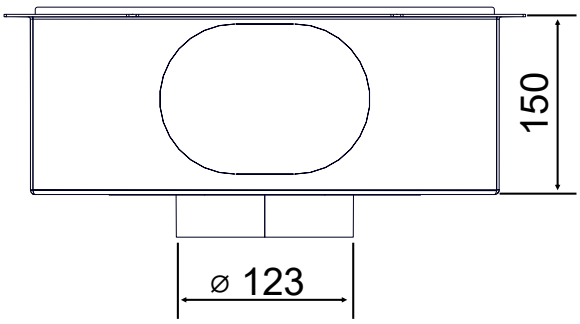
3.2 AIR CONNECTION BOX (OPTIONAL)



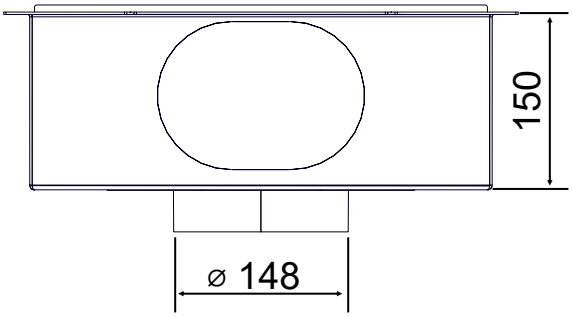
Pos.	Description of use
1	Air connection box - allows the connection of an external combustion line
2	Cover for air connection box
3	Air connection is welded, connection point for combustion air line
4	Screw for fixing the respective clamping plate
5*	Clamping plate for fixing the external combustion air line on the side
6*	Floor clamping plate for fixing the external combustion air line to the floor
*both clamp plates are supplied, but only the appropriate one is used.	

The perforation of the cut-outs for the connection piece can optionally be masked with aluminum adhesive tape.

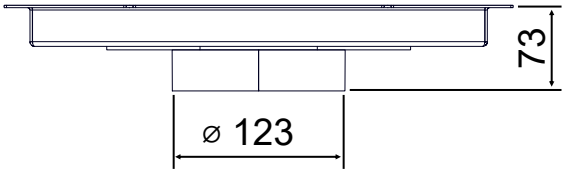
Supply air connection box ⌀ 125 mm



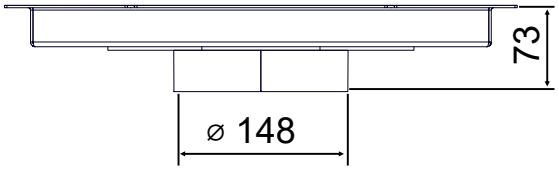
Supply air connection box ⌀ 150 mm



Suply air connection box low ⌀ 125 mm



Supply air connection box low ⌀ 150 mm



The air connection box low/**not** suitable for heating inserts:

- with electronic combustion control (with a low air connection box, controls **cannot** be retrofitted
- with an integrated secondary air supply

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4 INSTALLATION

4.1 INSTRUCTIONS BKH ACCESSORIES & ADDITIONAL OPTIONS

The instructions for installing the respective accessories and additional options are available via the following QR codes.

Heat exchanger rings **for:**



BKH flat

BKH corner

BKH Tunnel

https://www.brunner.com/23617

Connection piece eccentric **for:**



BKH flat

BKH corner

BKH Tunnel

https://www.brunner.com/23652

Cast iron dome ⌀ 180 mm low **for:**



BKH flat 42-42

BKH flat 42-50

BKH flat 42-66

BKH Tunnel 42-50

BKH Tunnel 42-66

BKH corner 42-42-42

BKH corner 42-66-42
(DTL & DTR)

https://www.brunner.com/23653

Modular Accumulator MAS **for:**



BKH flat
(without 50-162)

BKH corner

BKH Tunnel
(without 50-162)

BKH Panorama

https://www.brunner.com/23633

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Boiler module

for:



BKH flat
(without 50-162)

BKH corner

BKH Tunnel
(without 50-162)

https://www.brunner.com/23650

Integrated secondary air device

for:

BKH flat

BKH corner

BKH Tunnel

https://www.brunner.com/23651

Carrier unit suspended

for:

BKH Panorama

https://www.brunner.com/23654

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4.2 SETTING UP



DANGER
Possible personal injury and/or property damage caused by improper installation

Assembly and installation of BKH requires extensive specialist knowledge.

- Assembly and installation works must be performed by authorized professionals.



Danger
Risk of injury caused by heavy loads

Carrying of heavy loads can lead to injuries.
- The equipment should be carried by at least two people.
- Use appropriate carrying aids.
- Keep the transport weight in mind.

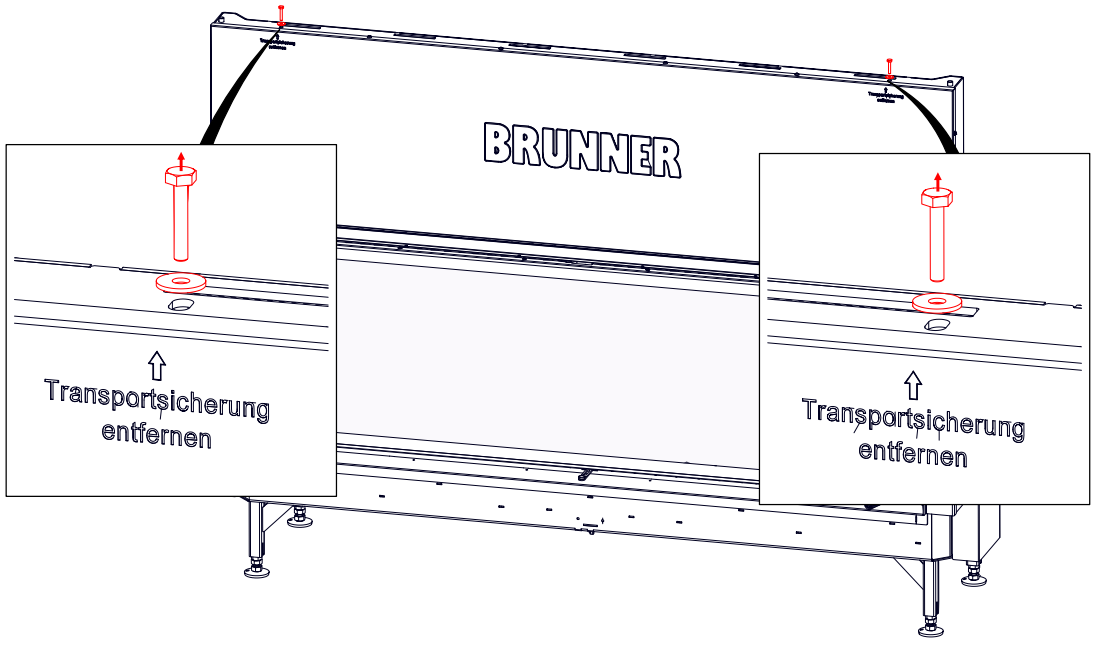
As long as the device is on the wooden pallet, it can be transported with a hand truck or forklift as usual.

4.2.1 REMOVE THE TRANSPORT LOCKS

Version with lifting door

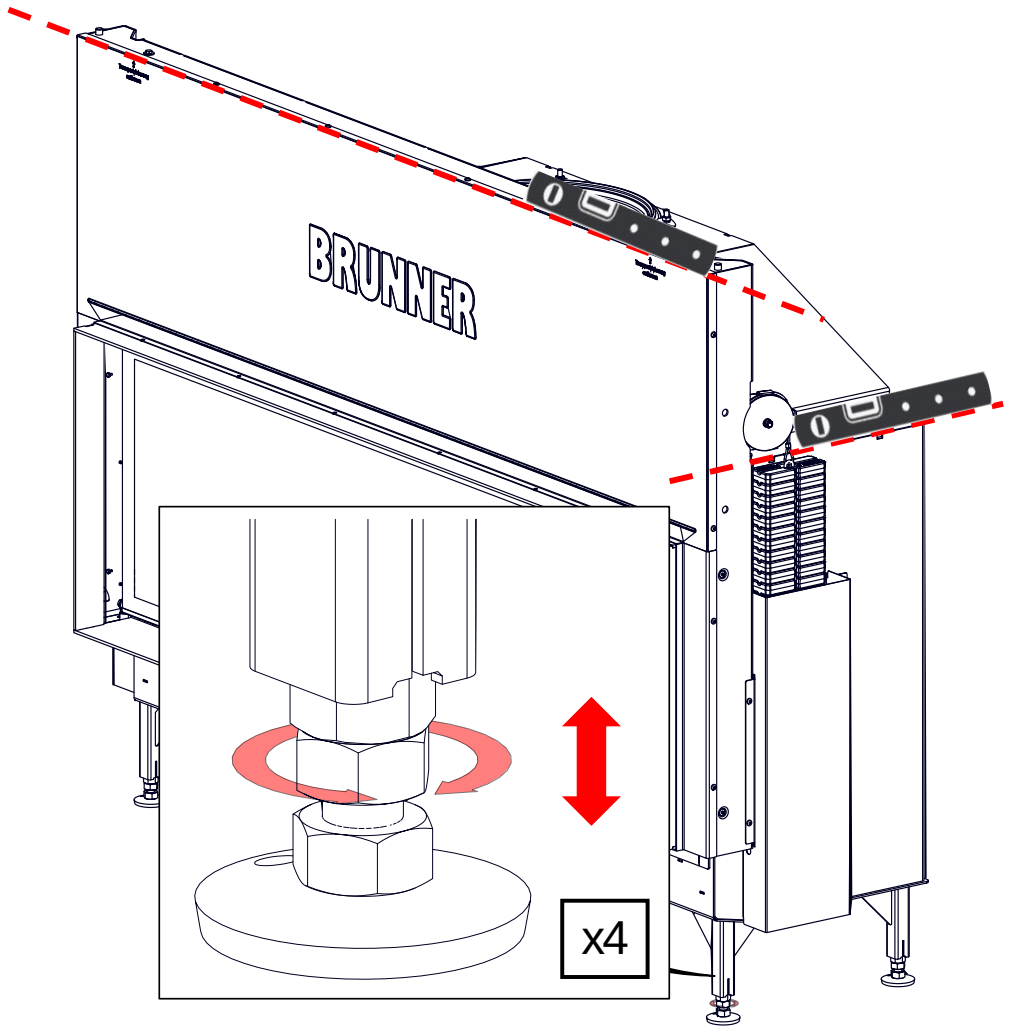


Remove the transport lock



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4.2.2 SET UP THE FIREPLACE

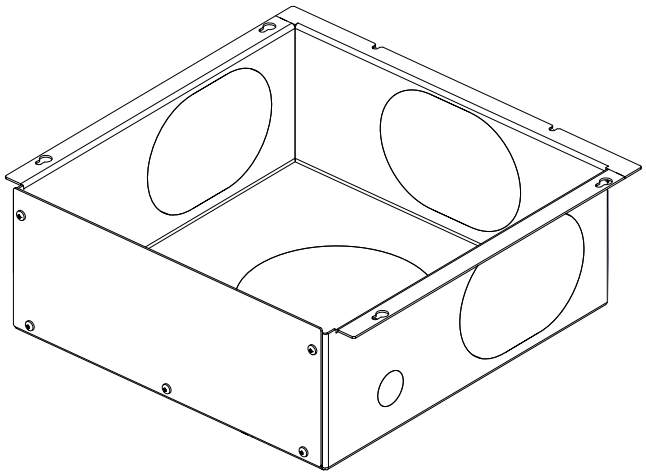


4.2.3 VARIANT WITH EXTERNAL COMBUSTION AIR CONNECTION

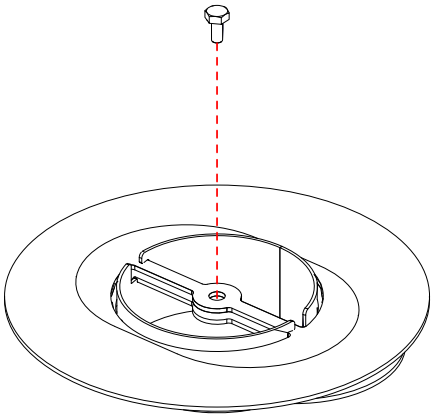
Preparatory work

Workflow:

1

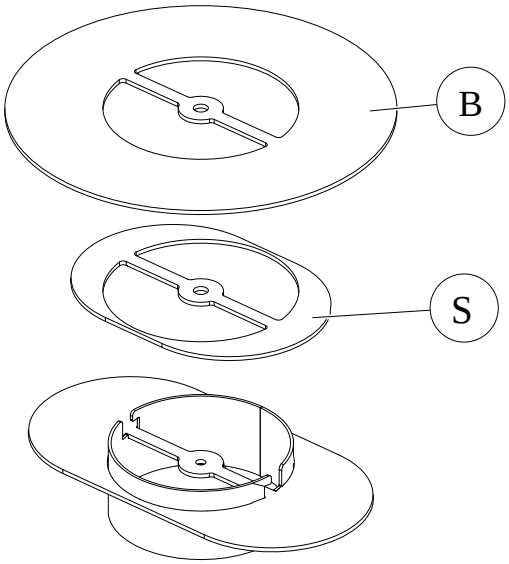


2

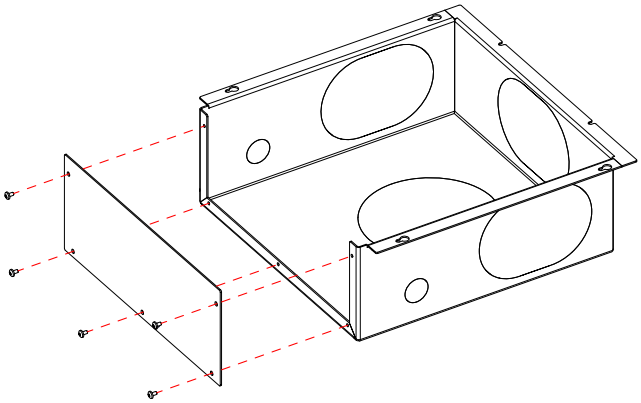


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3



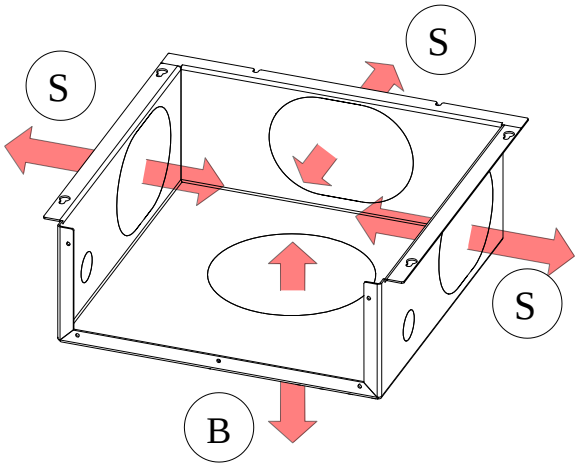
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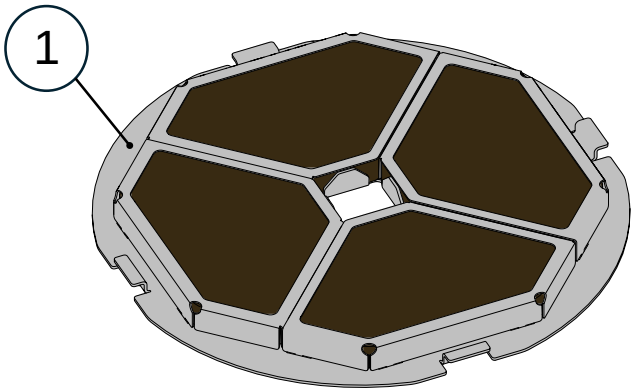
Im. 1: Recommended for easier handling

Depending on the planning, the air connection is possible - using aluxflex on 3 lateral parts (S) and also from the bottom (B).

Once you have made a decision, break out the appropriate part and make the connections for the air supply.



4.3 CATALYTIC CONVERTER



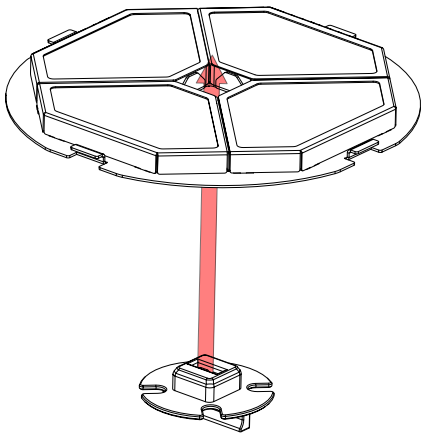
Position	Designation	Art.-Nr.	Pcs.
1	Catalytic converter BKH 5.0	HK000210	1

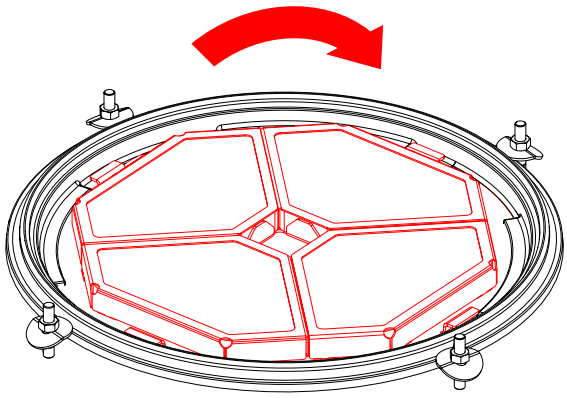
Fitting:

► Insert the catalytic converter through the combustion chamber into the catalytic converter retaining ring.

Pick up the catalytic converter with the assembly tool.

► Turn the catalytic converter to secure it. Then remove the assembly tool.

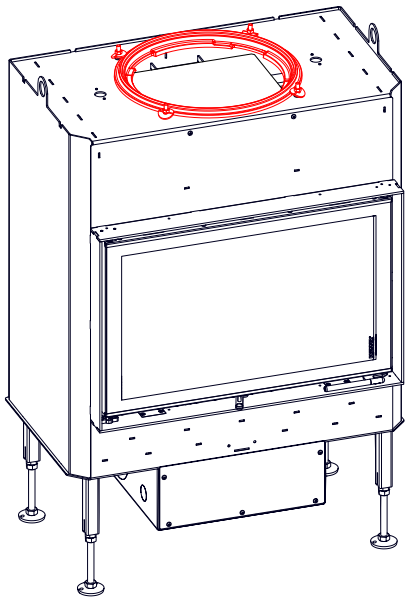




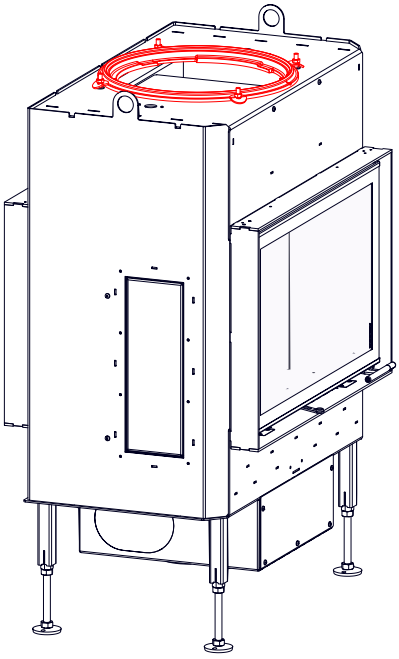
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Position catalytic converter retaining ring BKH

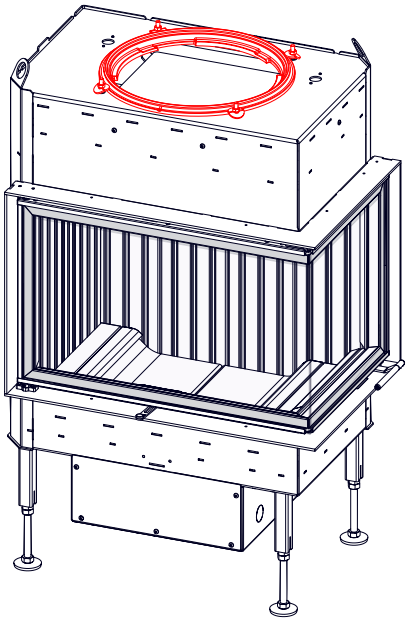
flat



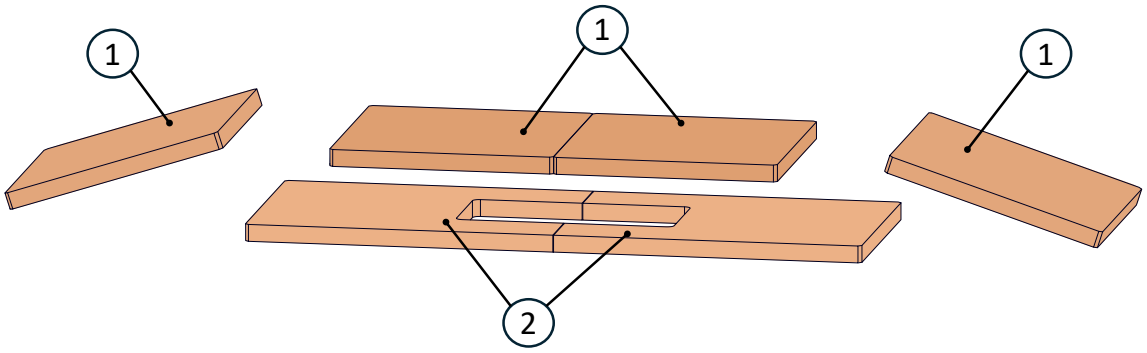
Tunnel



corner

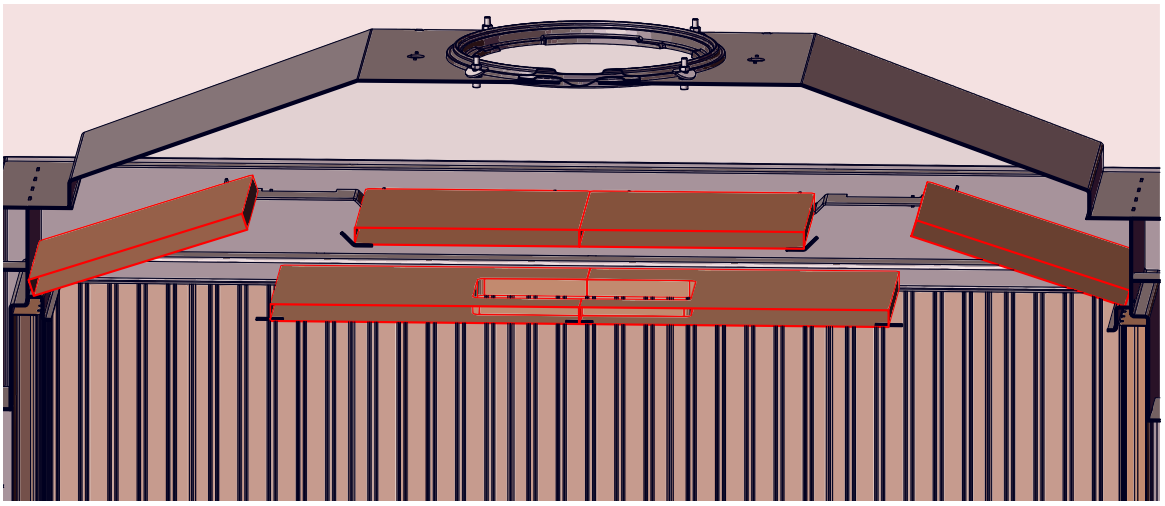


4.4 DEFLECTION



Position	Designation	Art.-Nr.	Pcs.
1	Deflection 2	HK000099	4
2	Deflection 1 BKH 50-162	HK010201	2

Position

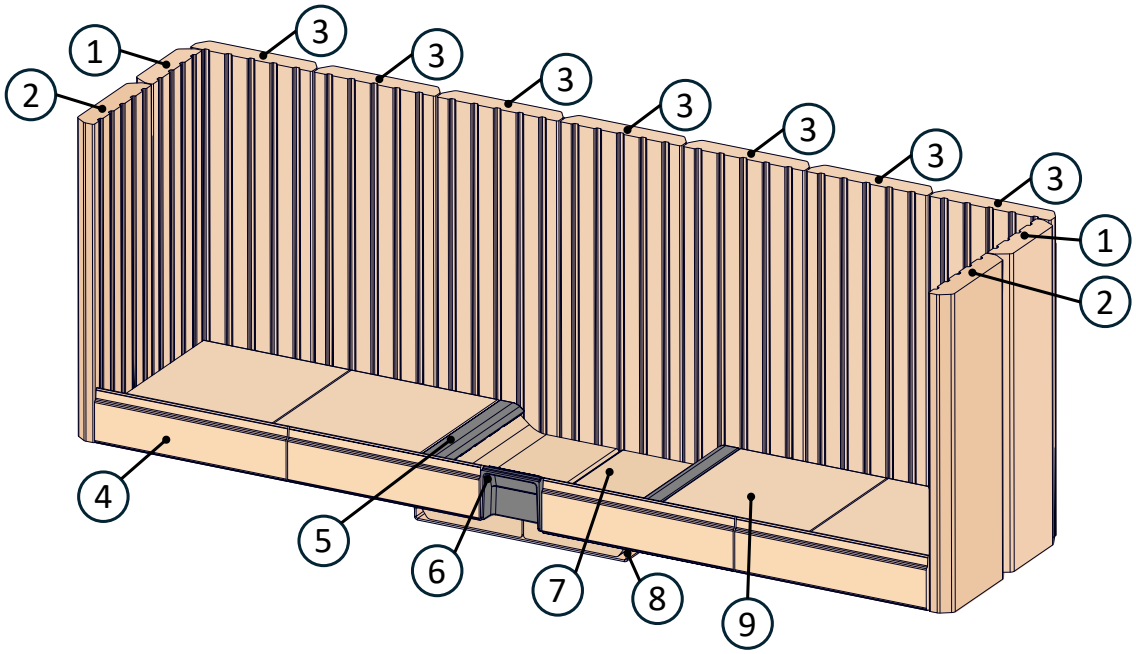


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4.5 VARIANTS COMBUSTION CHAMBER LINING

4.5.1 CHAMOTTE INNER LINING

flat 50-162 (HK010200-01)



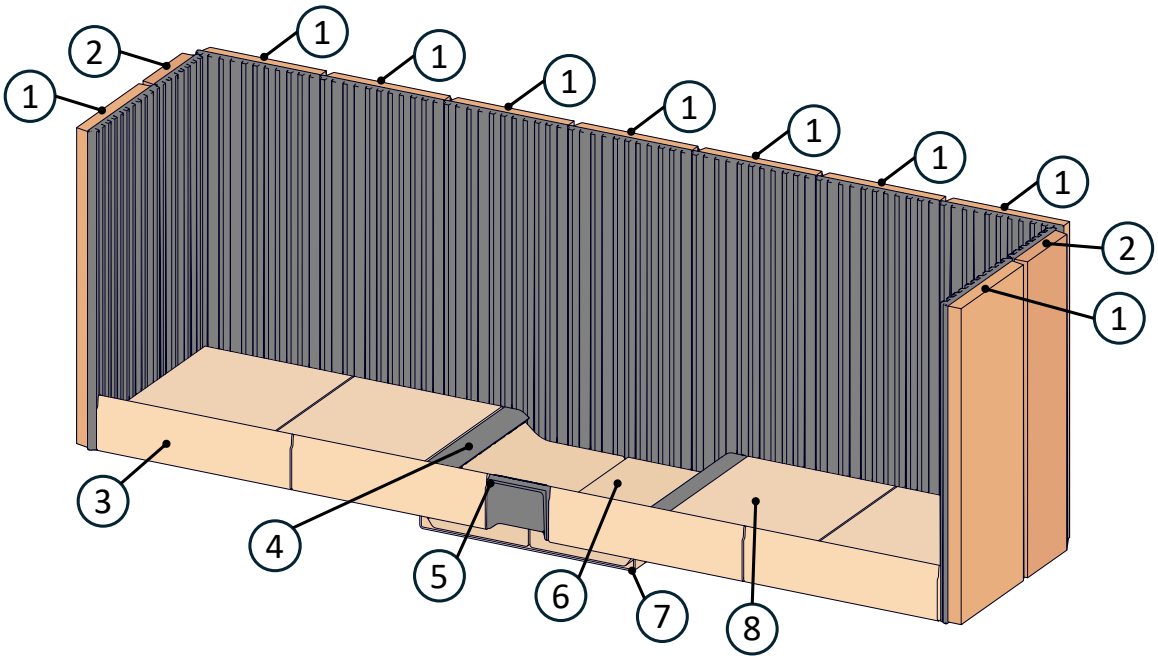
Position	Designation	Art.-Nr.	Pcs.
1	Stone 572x173x40	HK000011	2
2	Stone 572x203x40	HK000012	2
3	Stone 572x231x40	HK000013	7
4	Wedge stone 364x99x40	HK000270	4
5	Cast air distributor	HK000006	2
6	Cast inlay front	HK000007	1
7	Bottom stone	HK000014	2
8	Bottom insulation	HK000017	1
9	Bottom stone extension 4	HK000269	4

Chamotte inner lining to be installed dry

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4.5.2 COMBUSTION CHAMBER INNER LINING CAST IRON

flat 50-162 (HK010200-02)



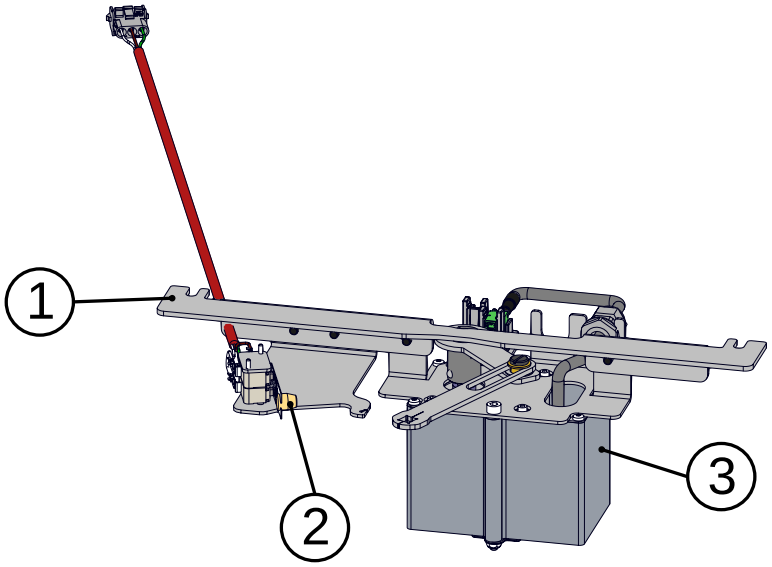
Position	Designation	Art.-Nr.	Pcs.
1	BG Cast iron plate 572x232x40	HK000172	9
2	BG Cast iron plate 572x151x40	HK000175	2
3	Wedge stone 364x99x40	HK000270	4
4	Cast air distributor	HK000006	2
5	Cast inlay front	HK000007	1
6	Bottom stone	HK000014	2
7	Bottom insulation	HK000017	1
8	Bottom stone extension 4	HK000269	4

4.6 VARIANT: EOS

4.6.1 DIFFERENTIATION BETWEEN EOS VARIANT 1 AND VARIANT 2

Depending on the components, follow the instructions for EOS variant 1 or EOS variant 2:

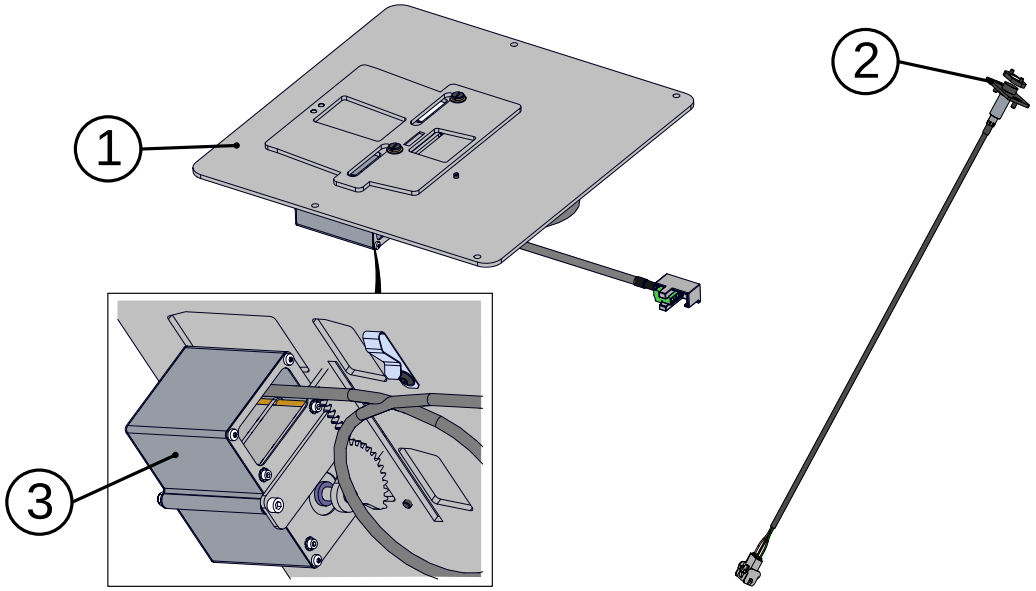
EOS variant 1



Position	Designation	Item no.	Pcs.
1	Carrier plate	HK000085	1
2	Door contact switch	HK000082	1
3	Servomotor	HK000081	1

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EOS variant 2



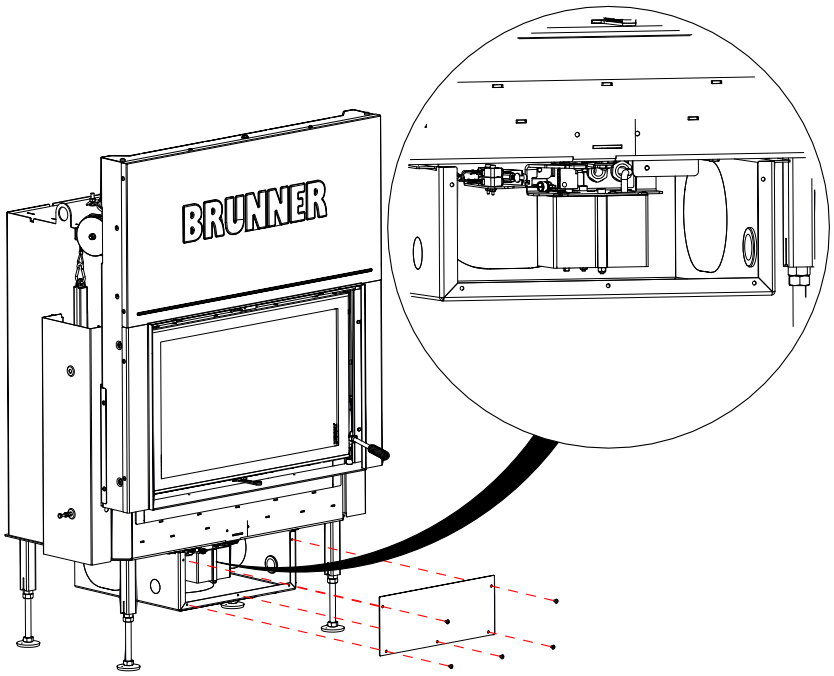
Position	Designation	Item no.	Pcs.
1	BG Bottom cover Air box small EOS	HK000219	1
2	BG Servomotor EOS with Gear wheel	N003157	1
3	BG Door contact switch with Magnet	E011001	1

4.6.2 EOS VARIANT 1

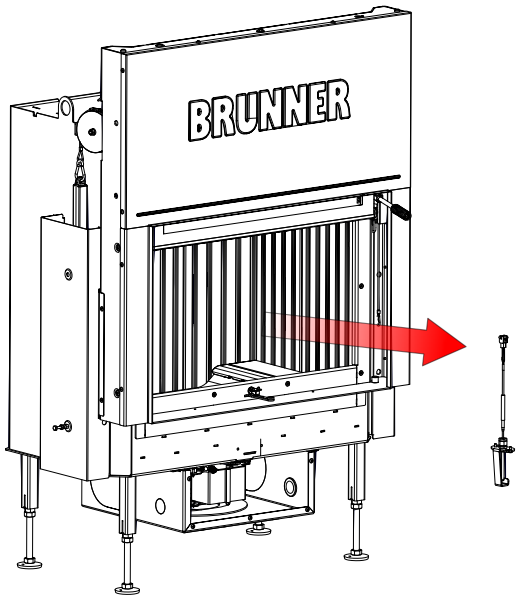
4.6.2.1 FITTING: EOS

Workflow:

1



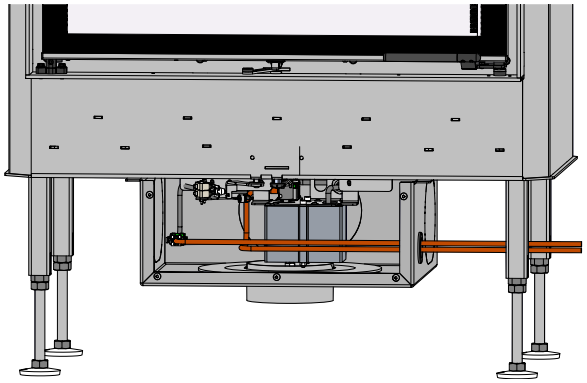
2



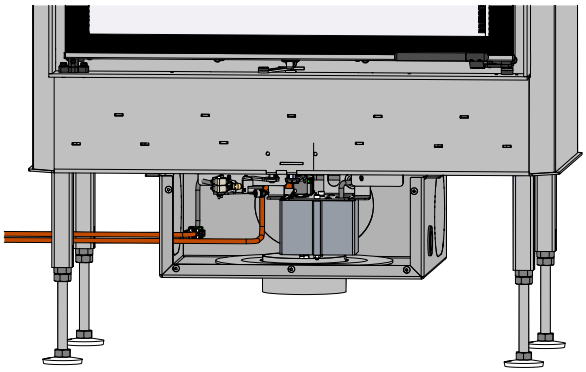
Make the electrical connection

Variants:
cable routing right side or left side

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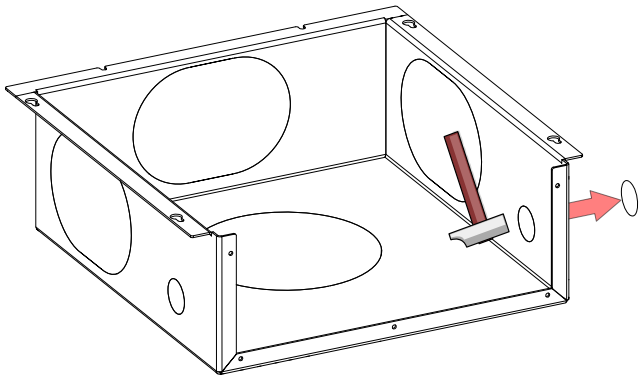


Im. 2: cable routing right side

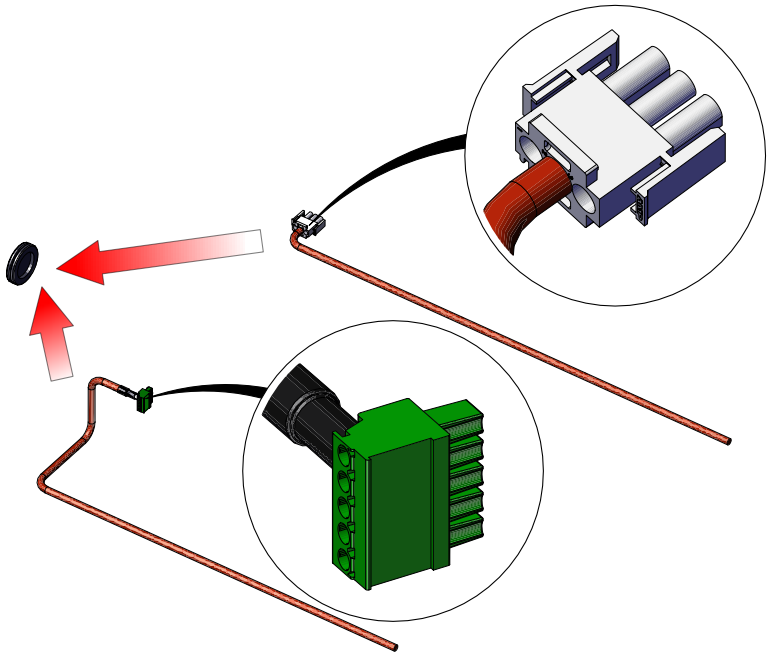


Im. 3: cable routing left side

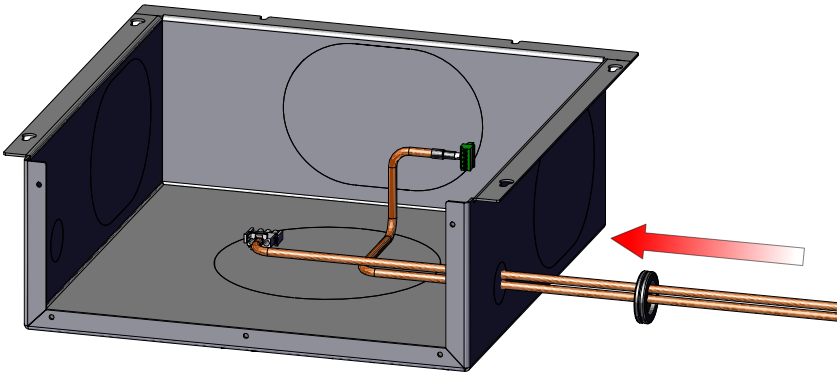
3



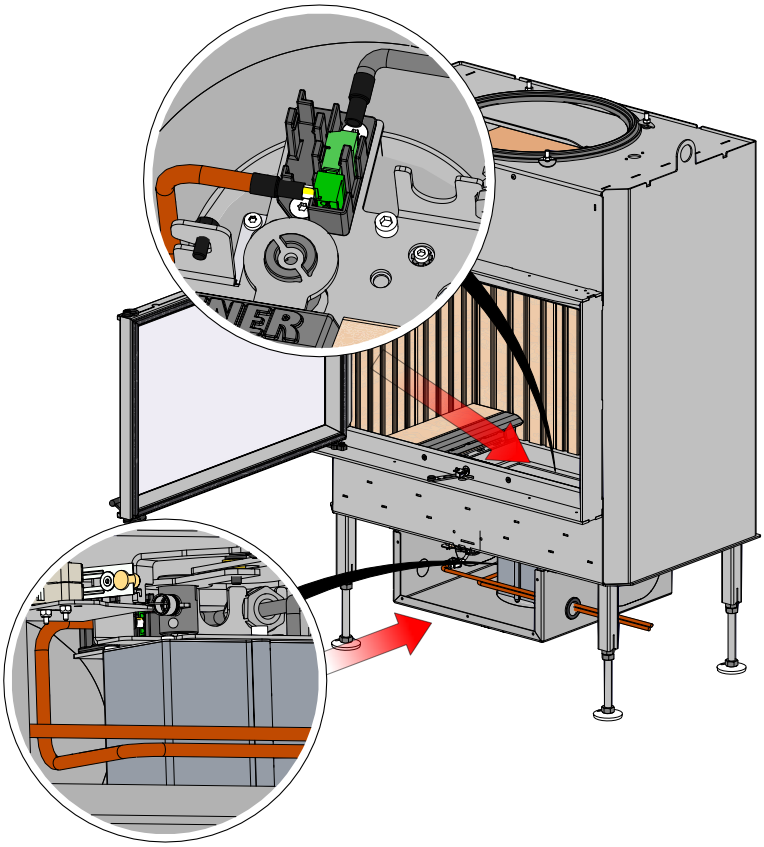
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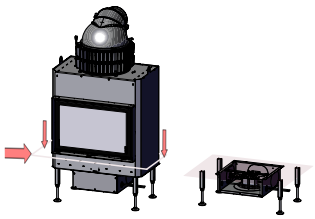
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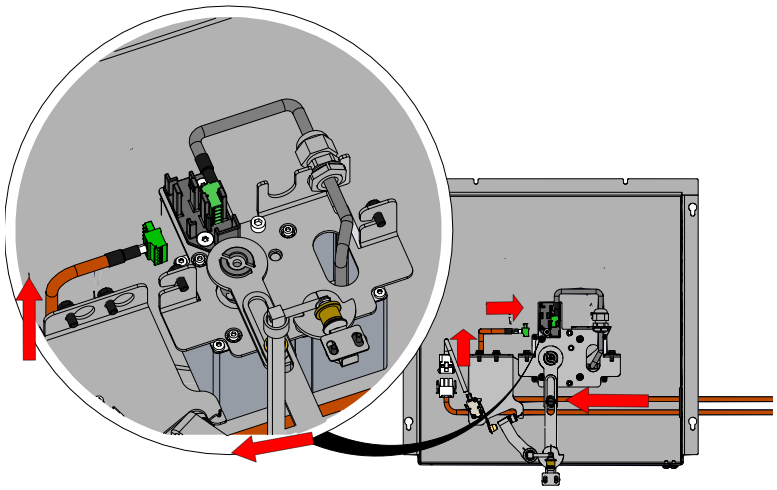
INFO: Access

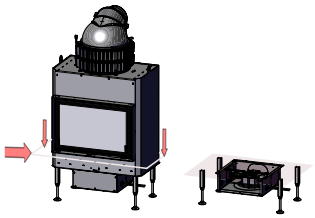


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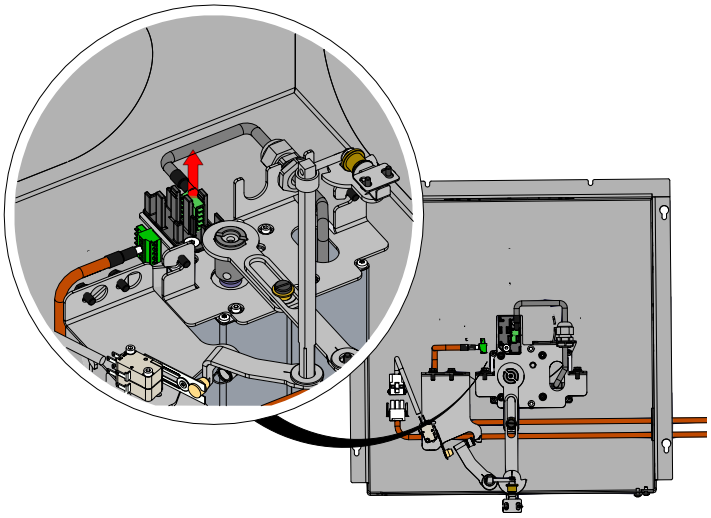


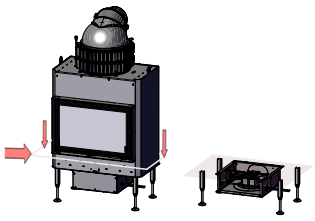
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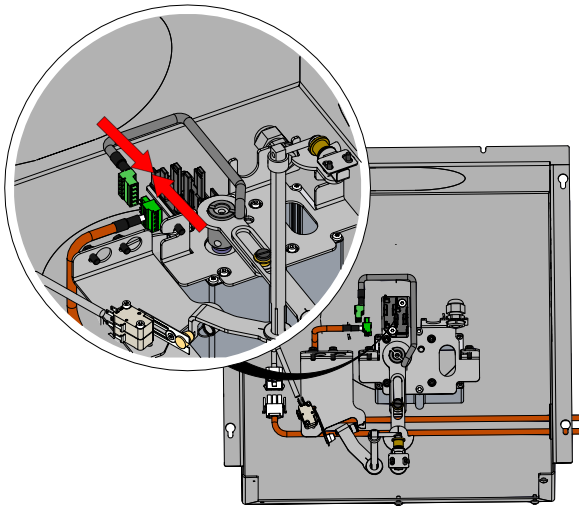


7

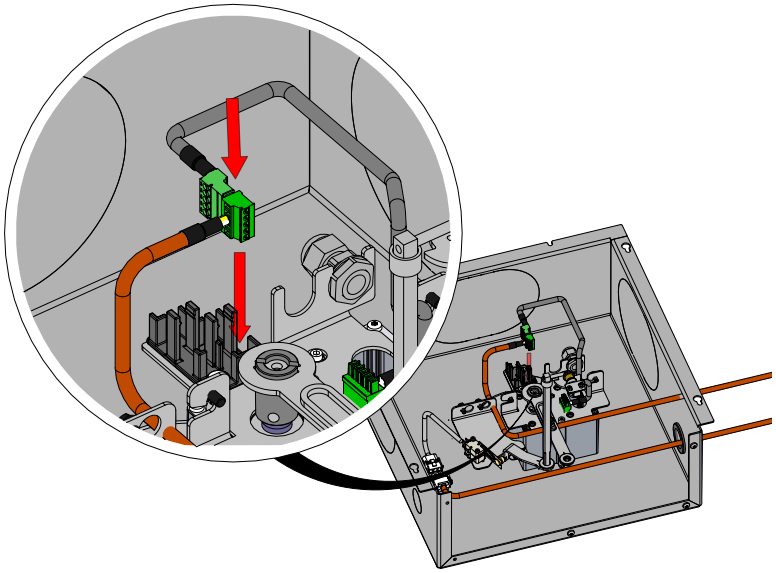




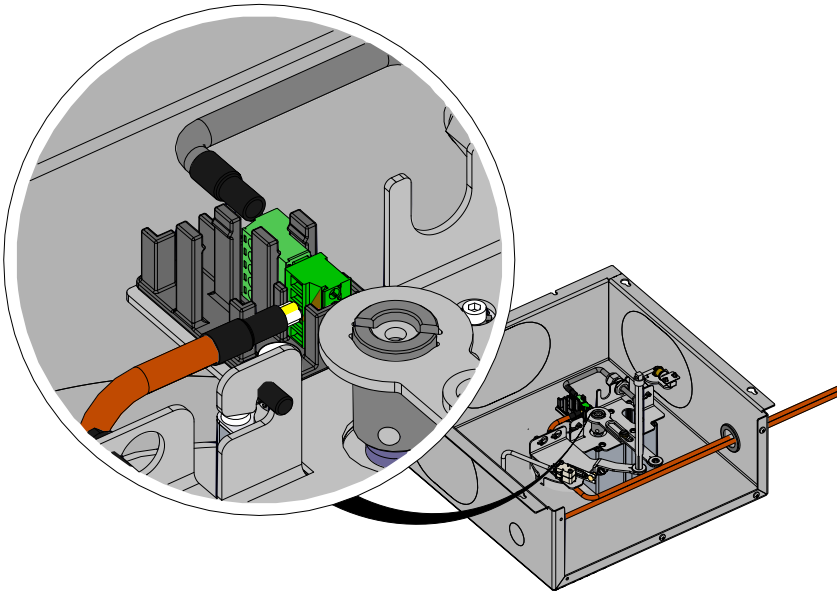
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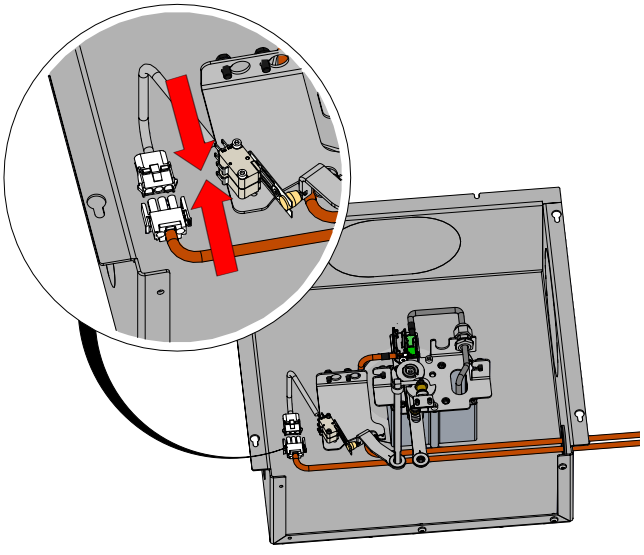
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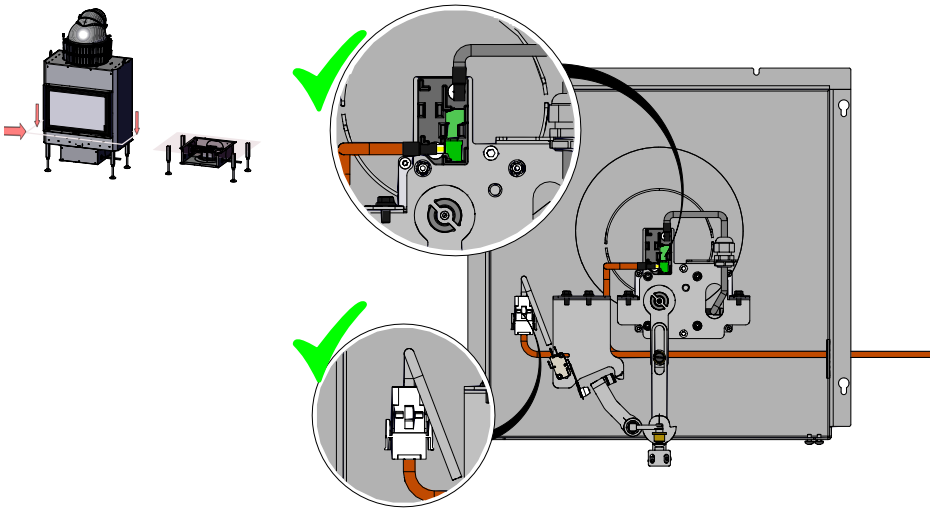
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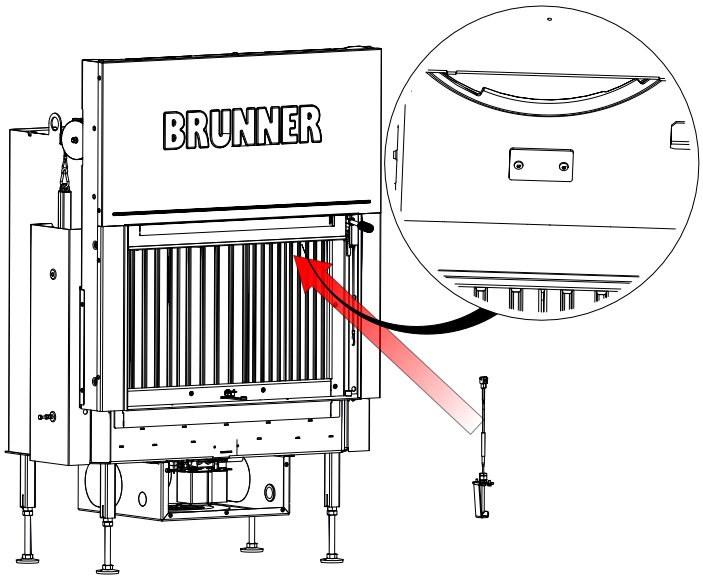
11



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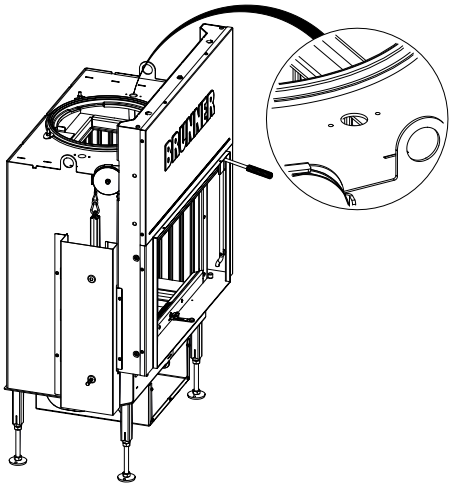


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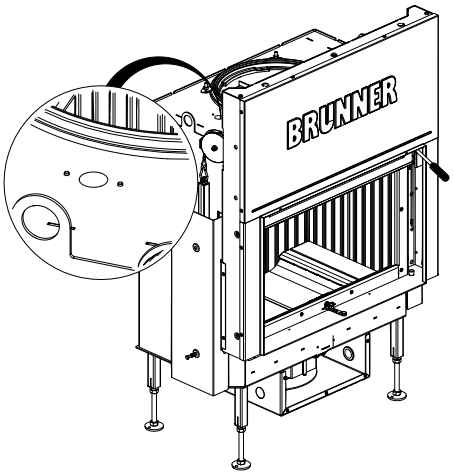


Variants cable routing - Thermocouple: right side or left side

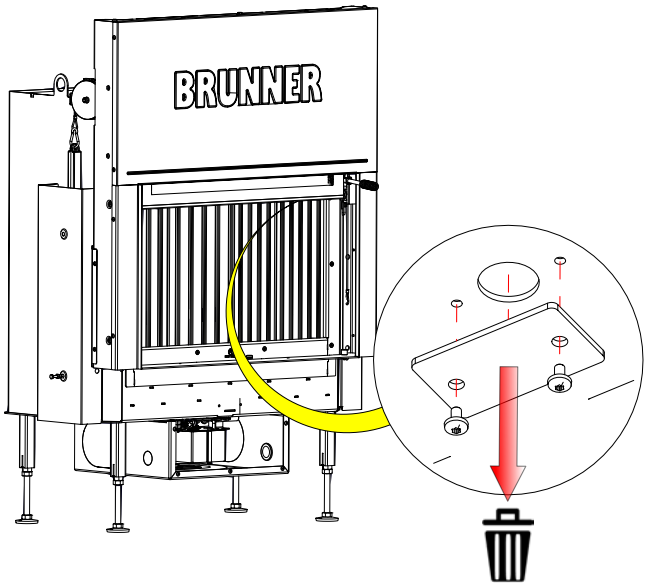
right side:



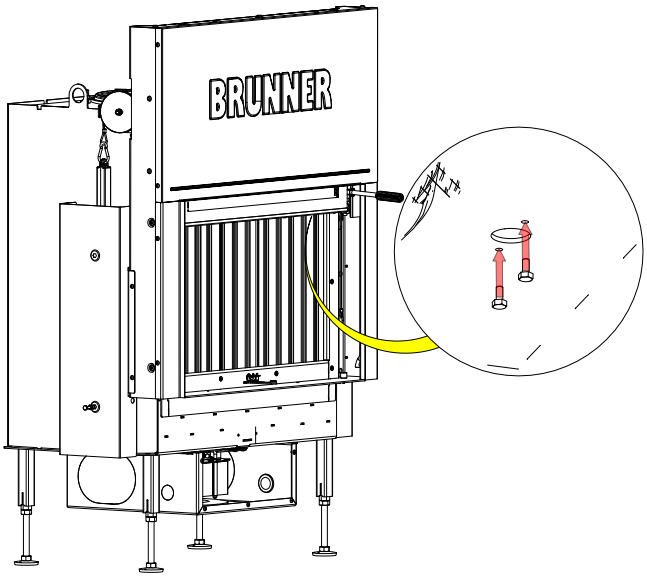
left side:



13

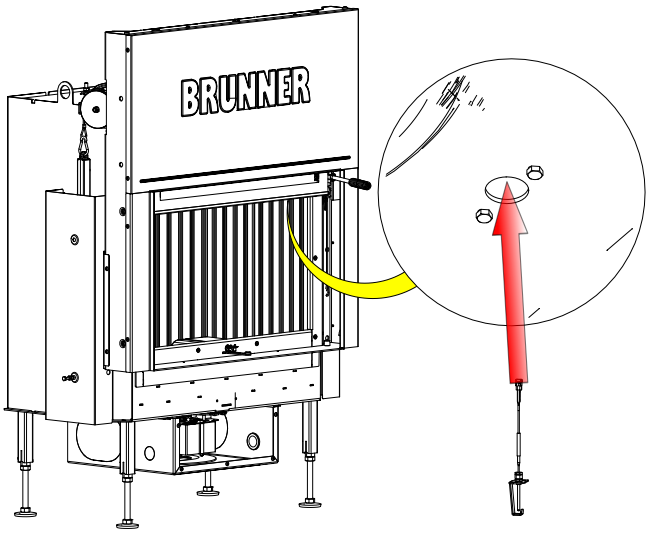


14



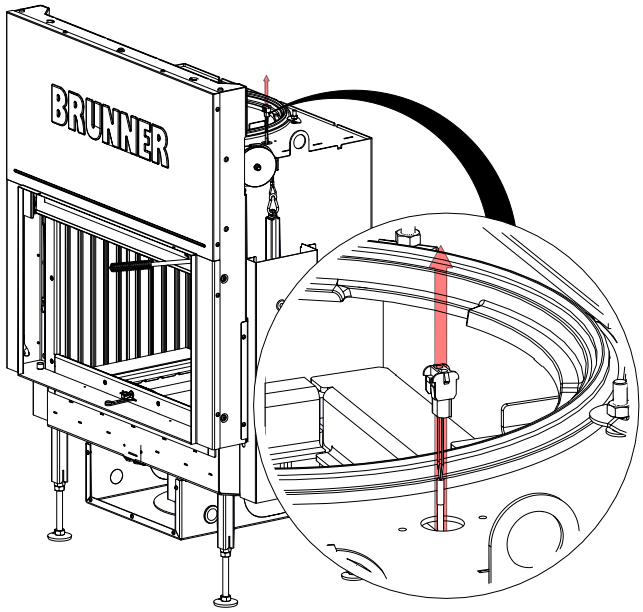
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15



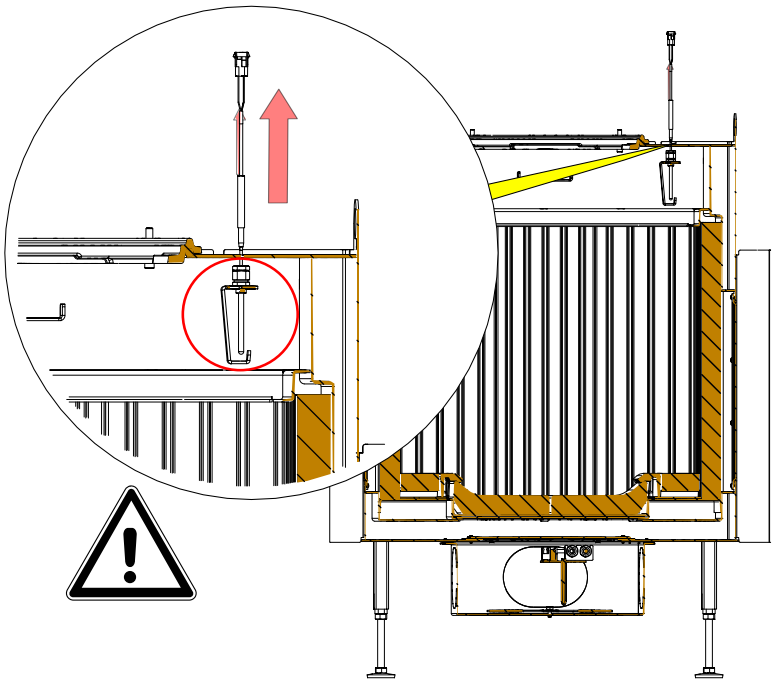
Do not overtighten the screws!

16

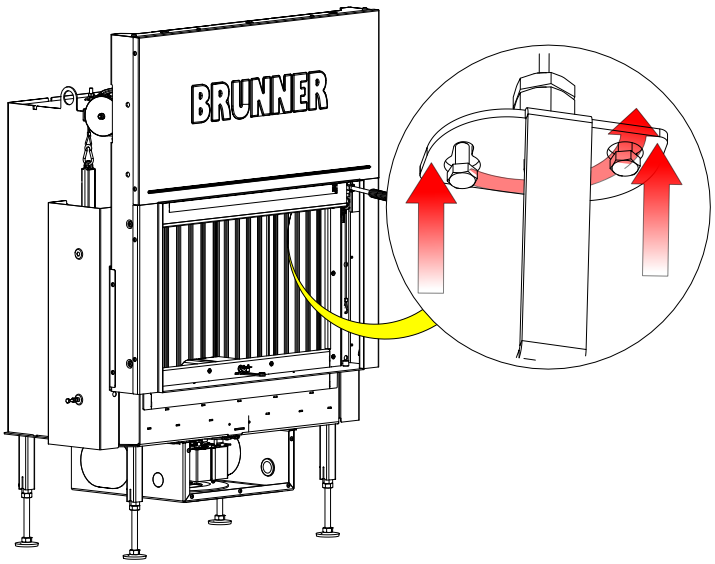


17





18

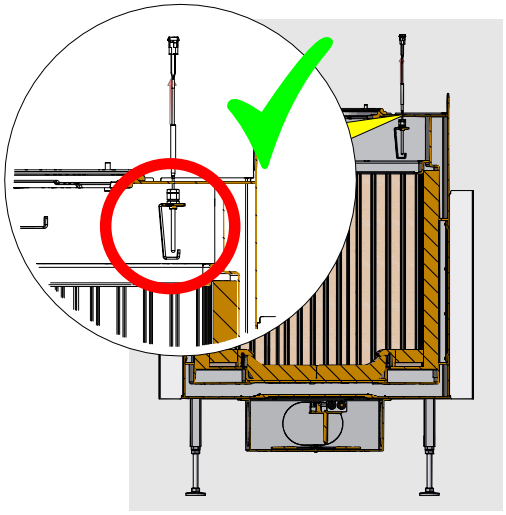


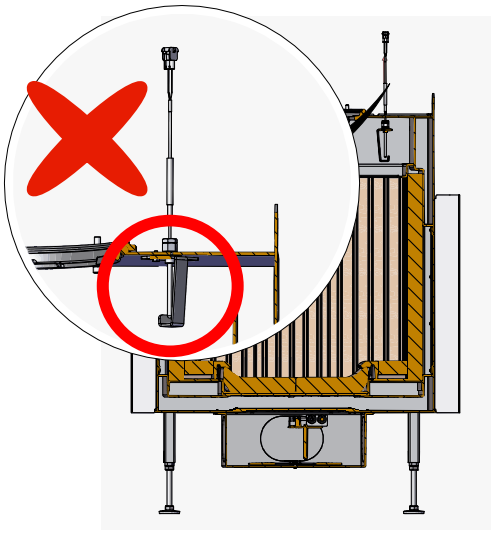
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Variant: Thermocouple right side





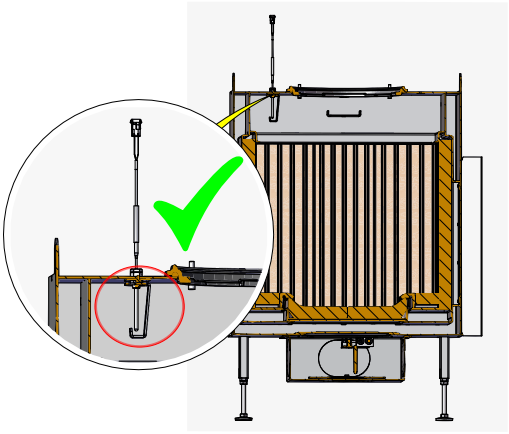


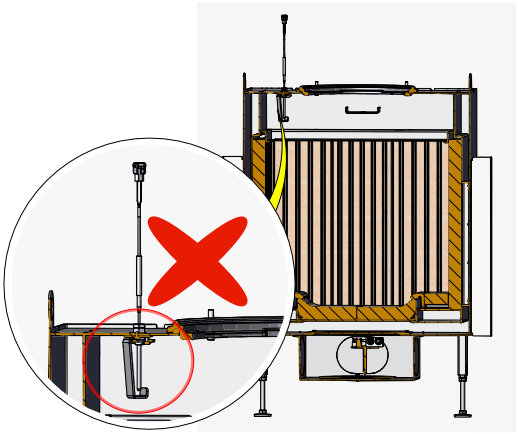


Variant: Thermocouple left side

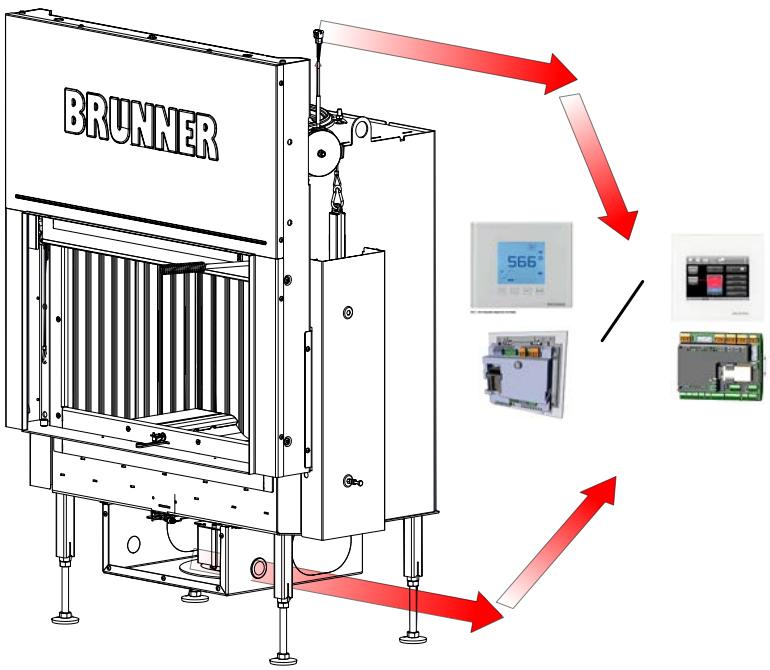








19



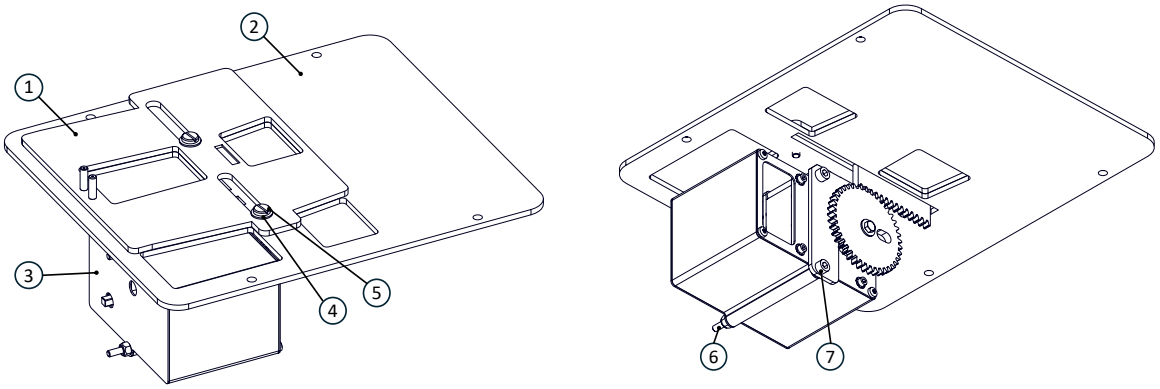
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4.6.3 EOS VARIANT 2

4.6.3.1 BOTTOM COVER AIR BOX EOS

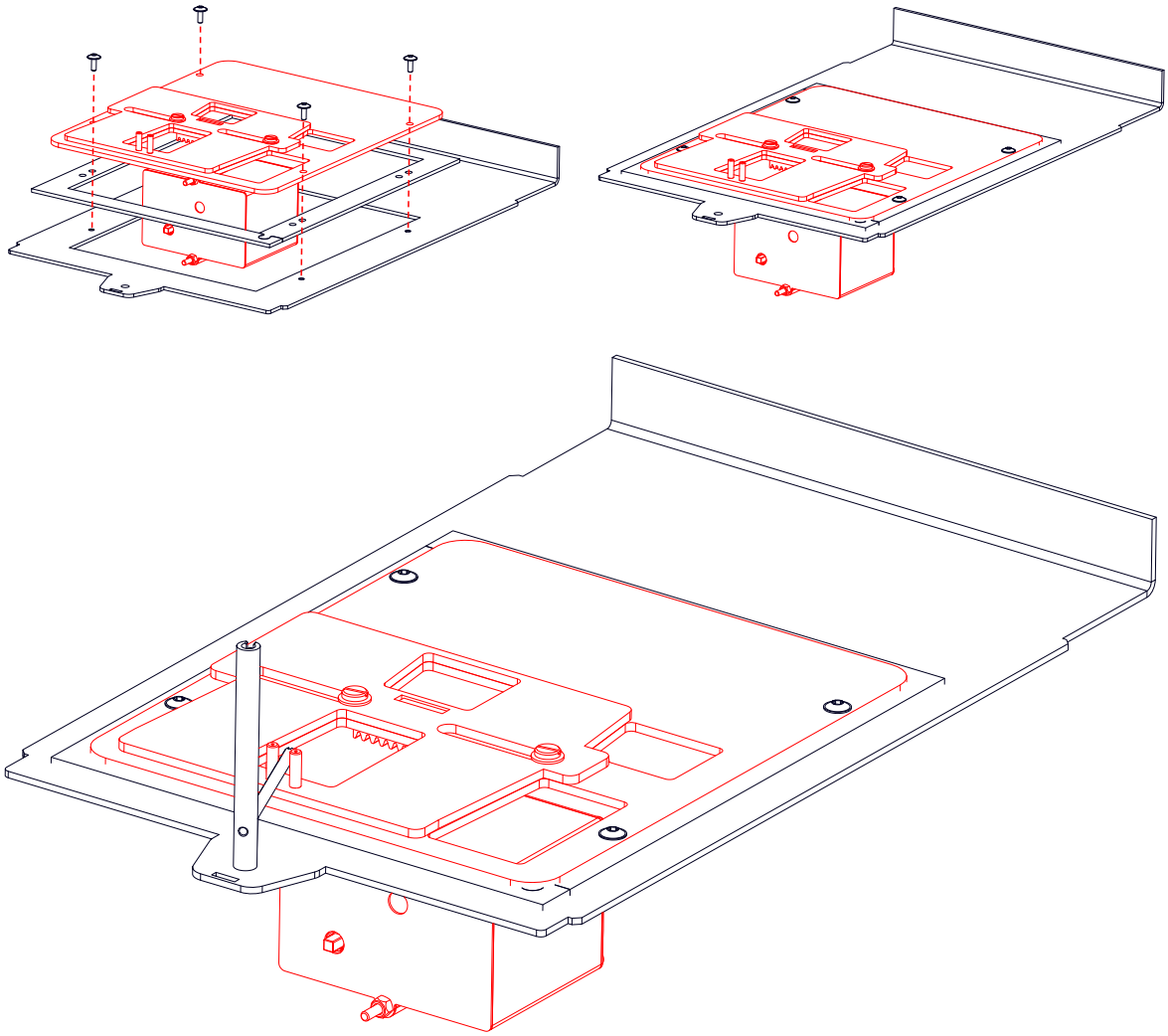
4.6.3.1.1 COMPONENTS EOS

BG Bottom cover Air box small, EOS (HK000064)

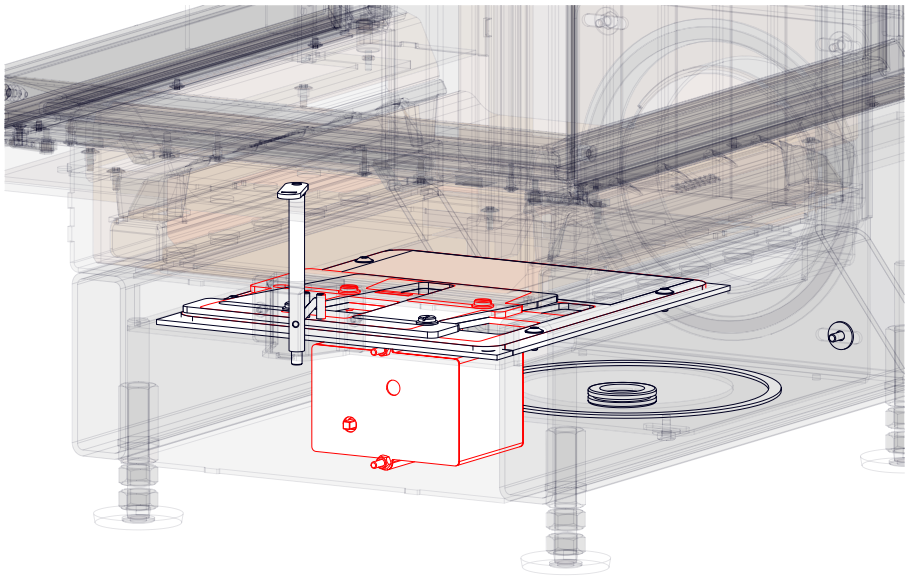


Position	Designation	Art.-Nr.	Stk.
1	Air slider plate small EOS	HK000232	1
2	BG Bottom cover Air box small EOS	HK000219	1
3	BG Servomotor EOS with Gear wheel	N003157	1
4	Collar bushing	I007337	2
5	Flat head screw (M5x6)	800461	2
6	hexagon nut with Clamping part	800155	2
7	Cylinder head screw (M5x100)	800035	2

4.6.3.1.2 FITTING: EOS



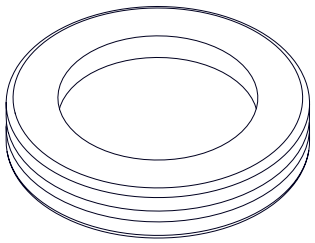
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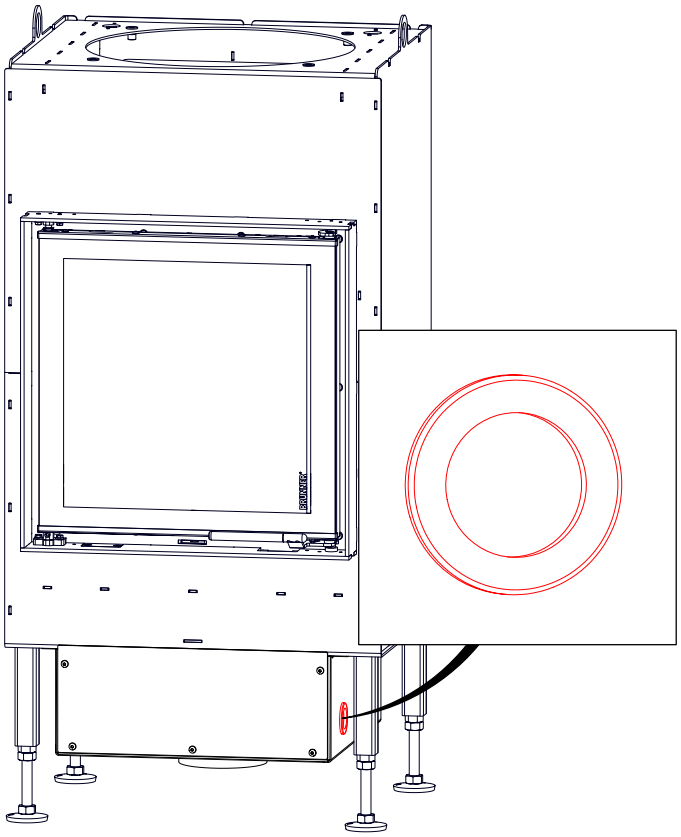
 © 2025 Brunner GmbH

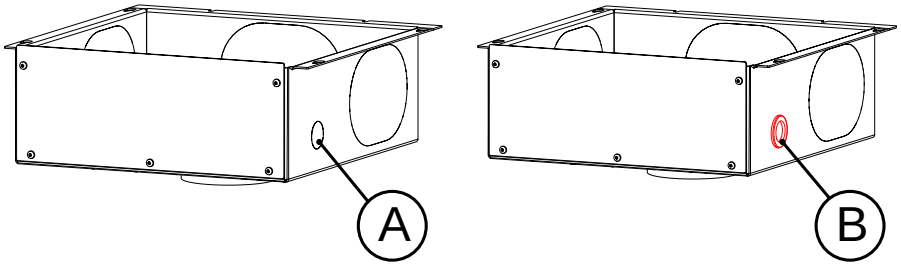
4.6.3.1.3 MEMBRANE FEED-THROUGH

Membrane feed-through (901248-01)



Position



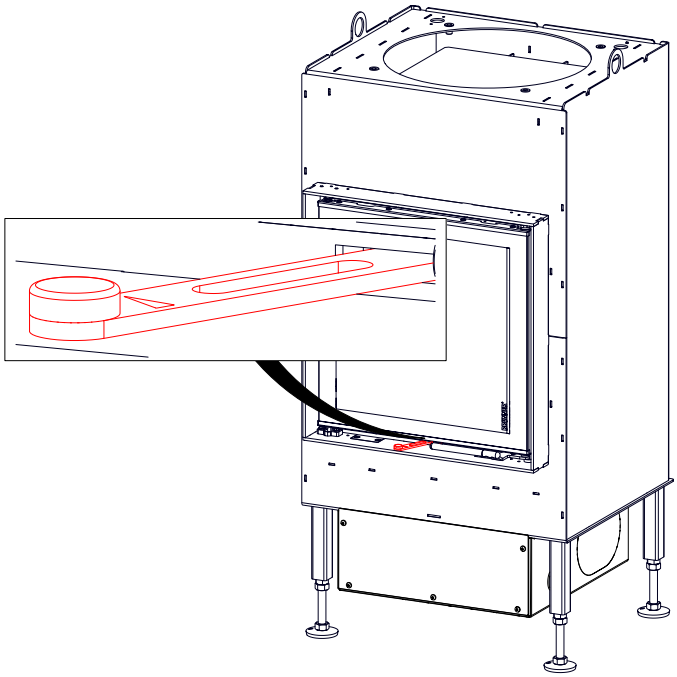


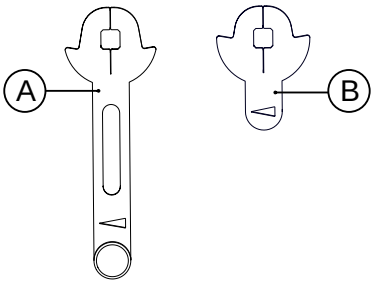
A = BKH

B = BKH with EOS

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4.6.3.1.4 AIR POSITION INDICATOR BKH FLAT





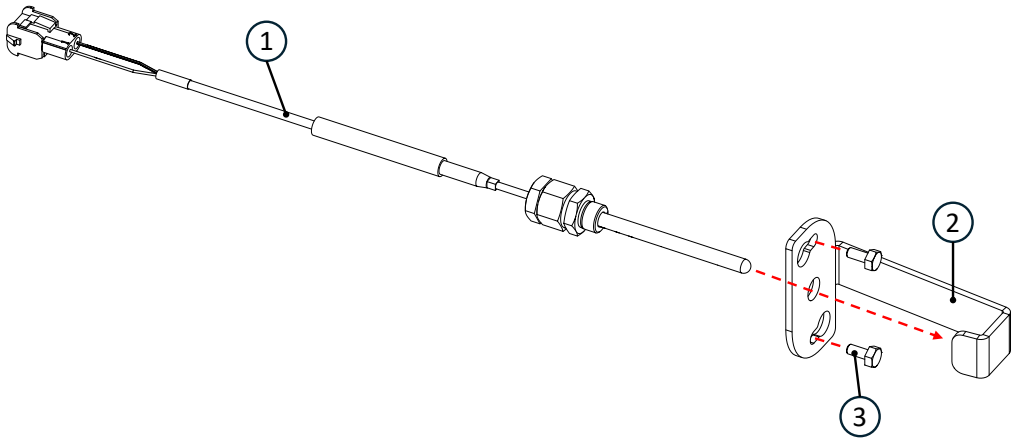
A = BKH flat

B = BKH flat with EOS

4.6.3.2 THERMOCOUPLE

4.6.3.2.1 COMPONENTS THERMOCOUPLE

BG Thermocouple with Retaining plate (HK000095)

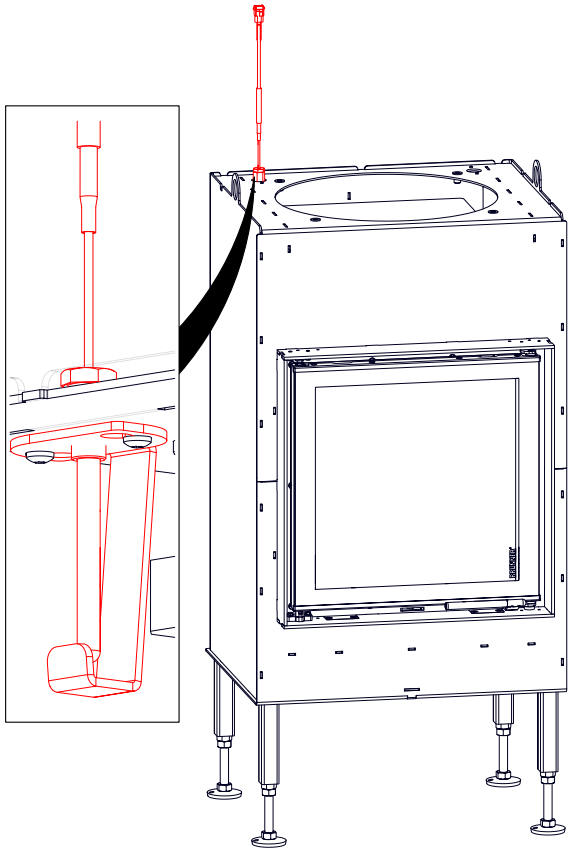


Position	Designation	Art.-Nr.	Pcs.
1	BG Thermocouple	10992.1	1
2	Thermocouple Retaining plate	HK000216	1
3	Hexagon head screw (M5x10)	02531	2

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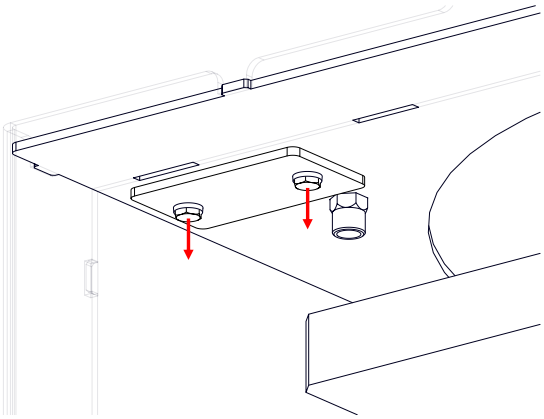
4.6.3.2.2 FITTING: THERMOCOUPLE

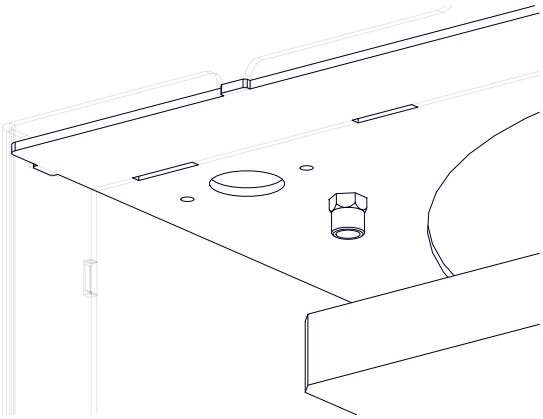
Position



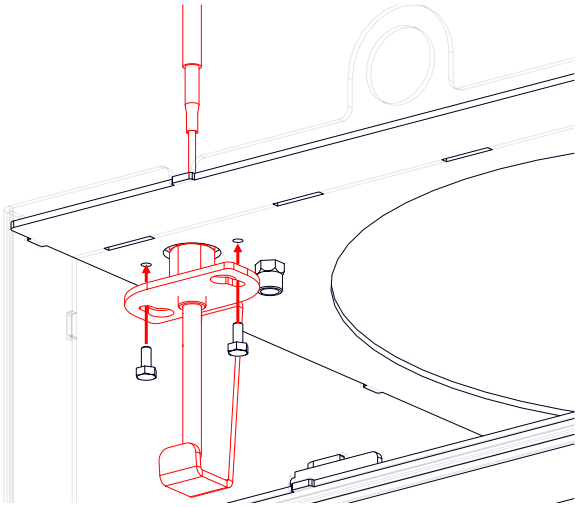
Workflow

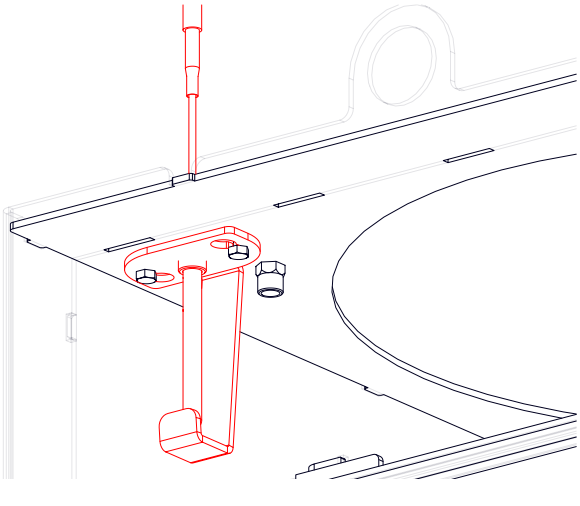
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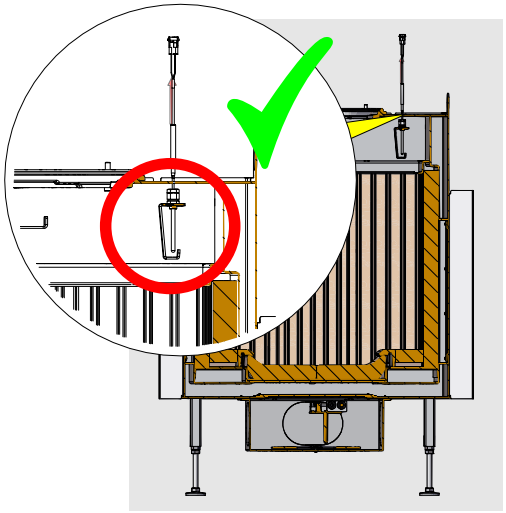


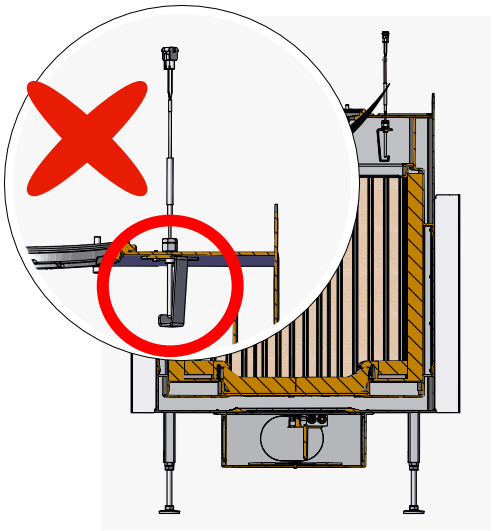
2



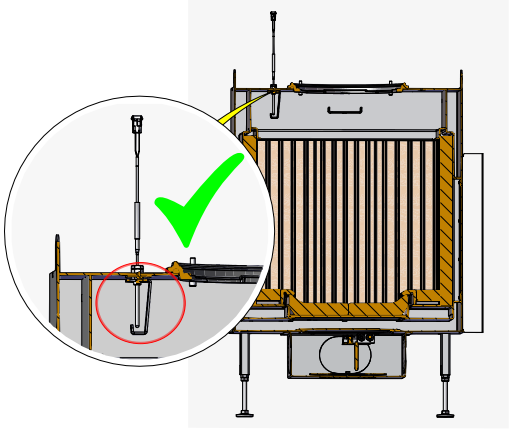


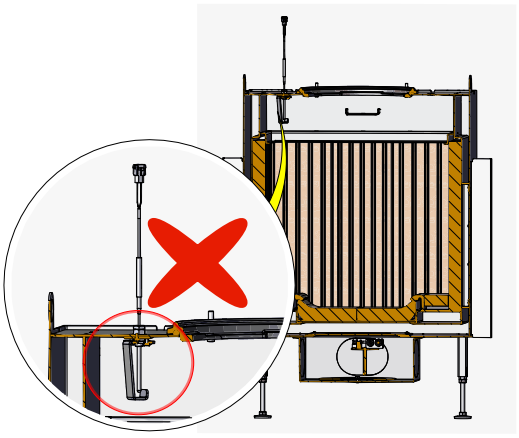
Variant: Thermocouple right side





Variant: Thermocouple left side



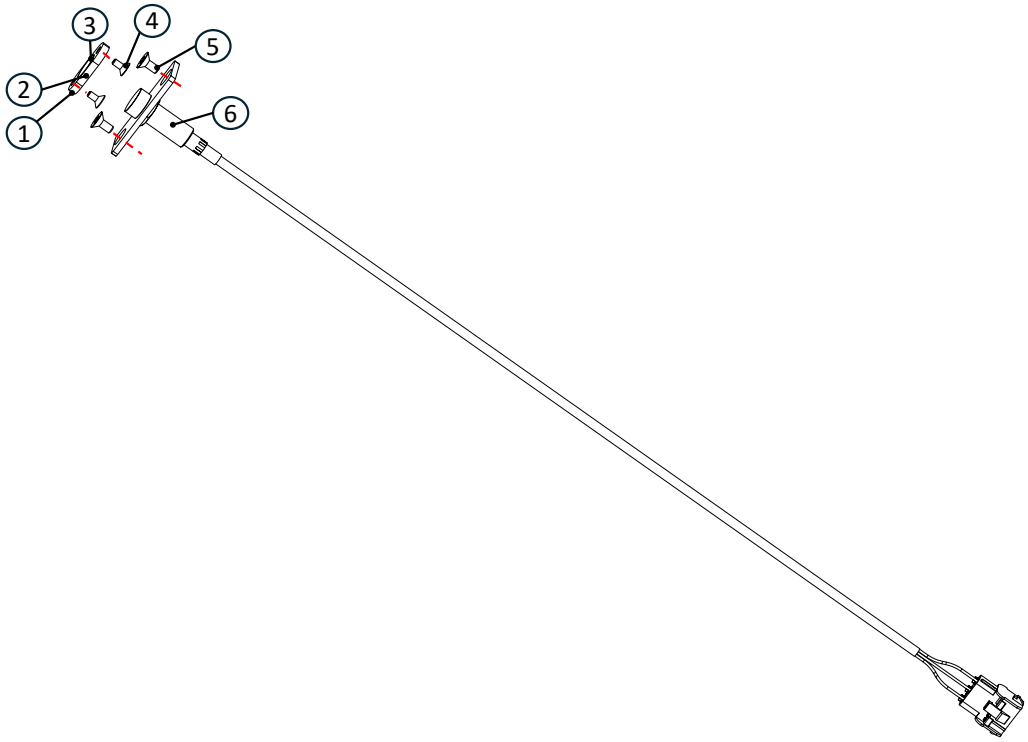


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4.6.3.3 DOOR CONTACT SWITCH

4.6.3.3.1 COMPONENTS DOOR CONTACT SWITCH

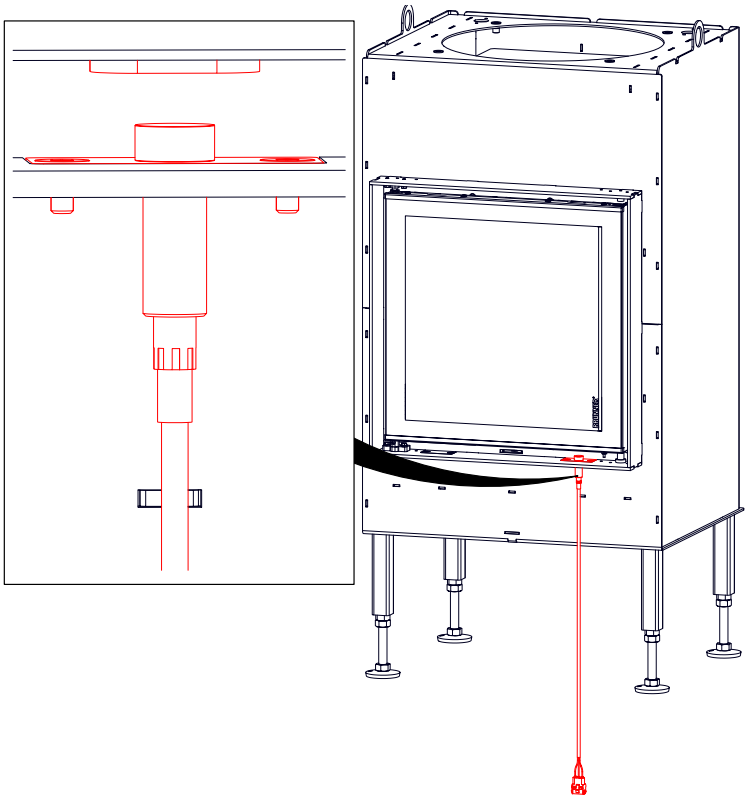
Door contact switch (E011001)



Position	Designation	Art.-Nr.	Pcs.
1	Retaining plate Magnet	E011011	1
2	Magnet	903324	1
3	Insulation	E011013	1
4	Countersunk screw (M4x8)	800063	2
5	Countersunk screw (M5x10)	800184	2
6	Door contact switch	E011003	1

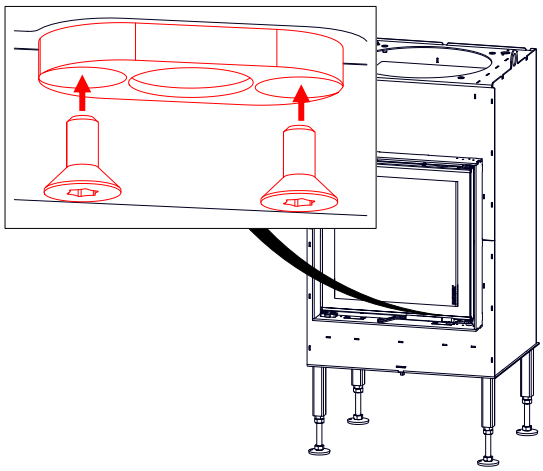
4.6.3.3.2 FITTING: DOOR CONTACT SWITCH

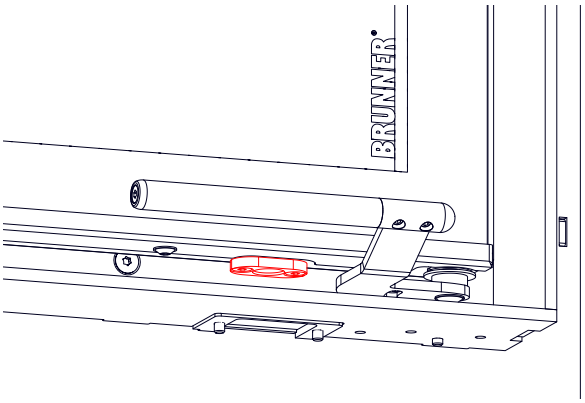
Position



Workflow

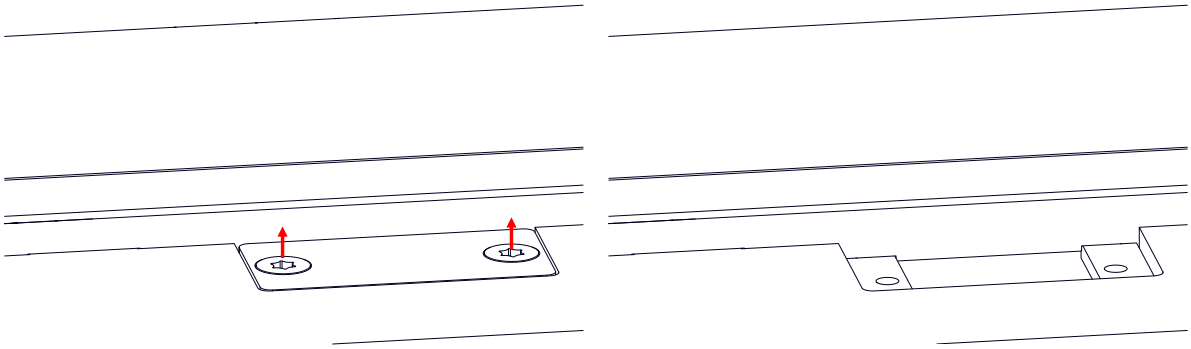
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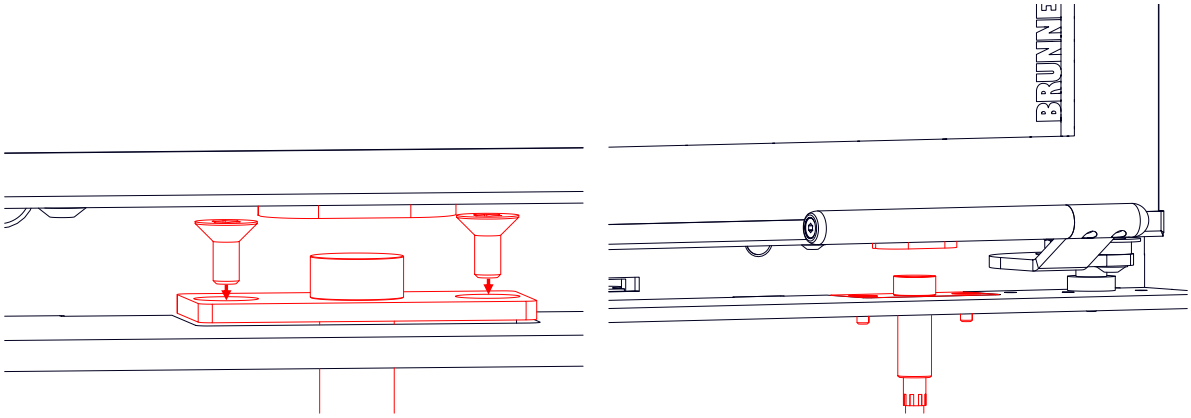


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2



3



4.7 FRAME VARIANTS

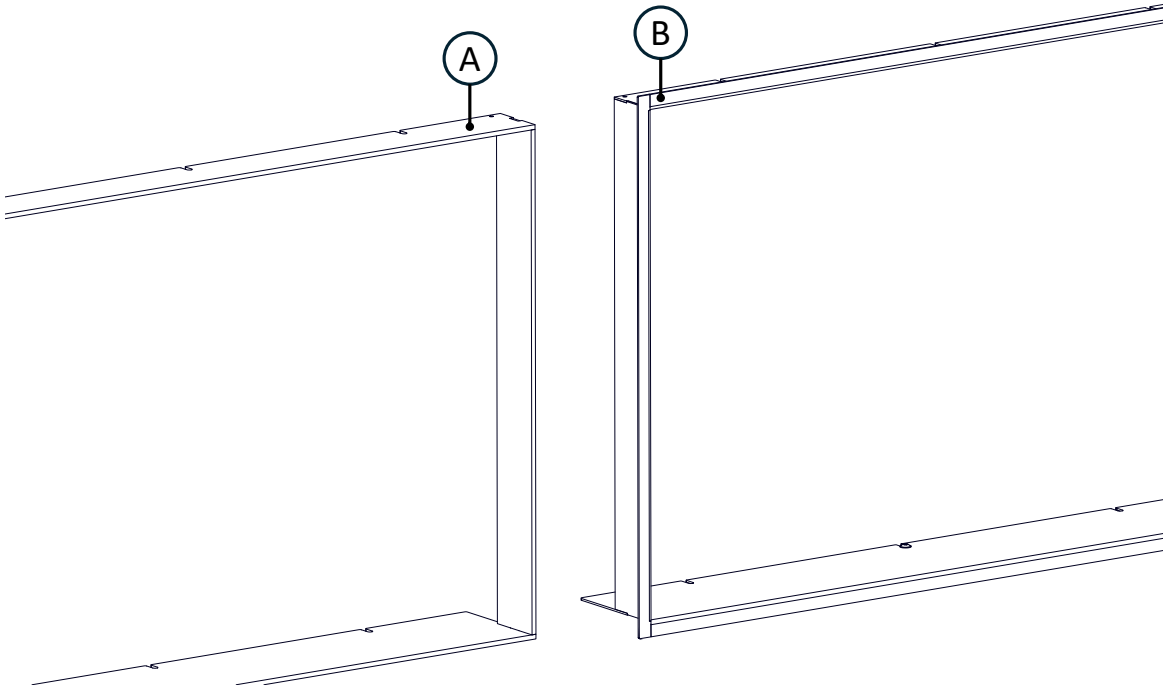
NOTICE

The frame and side panels must remain revisable!

► Ensure that the frame and side parts such as panels can still be inspected after complete assembly and installation! Do not brick in these parts.

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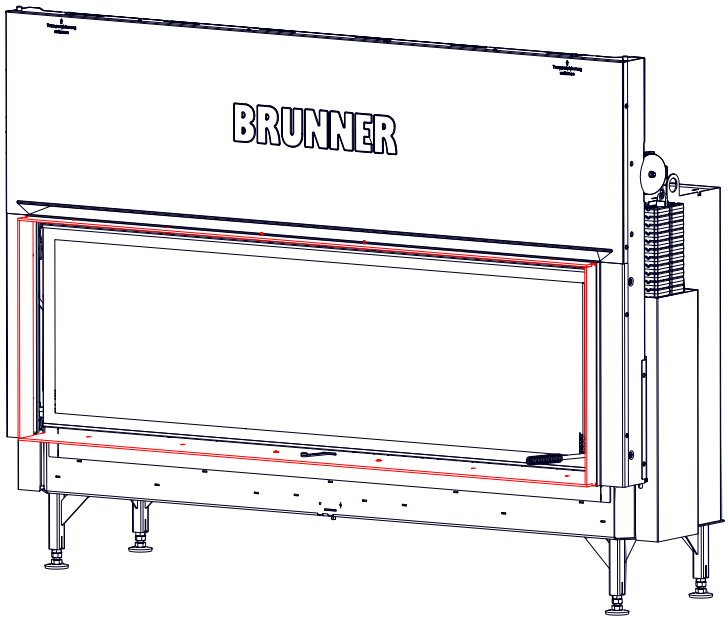
4.7.1 VARIANT: MOUNTING FRAME - DOOR FRAME



A: mounting frame

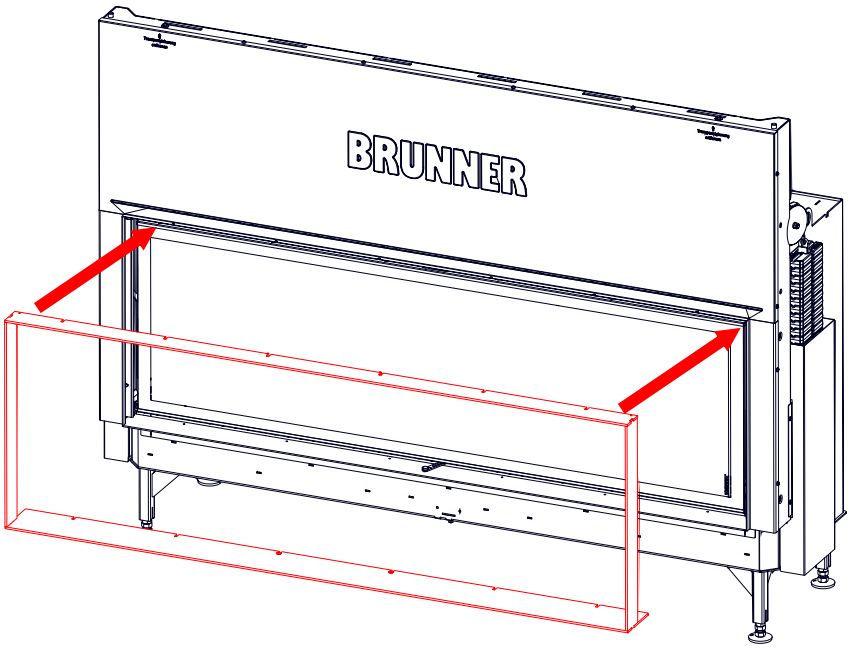
B: door frame

Position

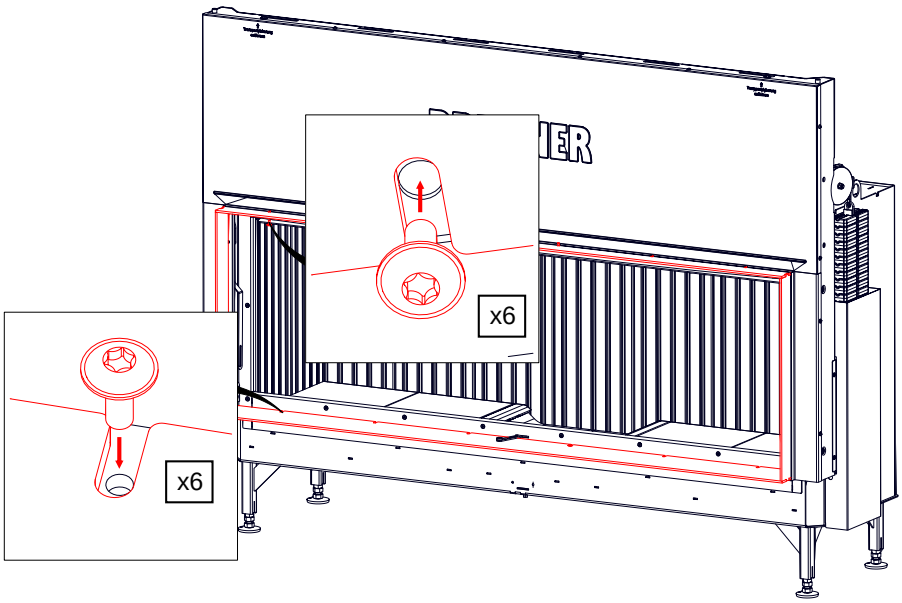


Workflow

1



2



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5 DISPOSAL

Old equipment contains valuable materials that must be recycled. Observe the applicable national legal regulations for disposal.



Danger of electrocution.

Electrical connections of the furnace system are under mains voltage. This can lead to electric shock.

Switch off the power supply

Secure power supply against restart.

Old metal parts can be disposed of as metal recycling.

Electrical and electronic components must be disposed of as electronic waste. Fireclay linings can be disposed of as rubble.

Fireclay linings can be disposed of as rubble.

Dispose of insulating and insulating materials of the heating or fireplace insert in a closed container on a suitable waste disposal site.

Do not put the glass ceramic discs in the waste glass collection container! The glass panes can be disposed of as normal household waste.

Recycling of catalytic converters containing precious metals

Oxidative catalytic converters, as installed in modern wood stoves, are very effective at reducing emissions of carbon monoxide and hydrocarbons. This is possible, because precious metals like platinum, palladium and rhodium are used on the surface of catalytic converters. These precious metals are distributed very evenly in very small amounts on the surface of catalytic converters. Over the years, the abrasive effect of particles streaming through the catalytic converter will cause the partial diminishing of the coating containing precious metals. Continuous overheating of catalytic converters (T > 700 °C) will damage the coating. In certain cases, the catalytic converter should be replaced and a new converter must be installed to ensure the catalytic effect.

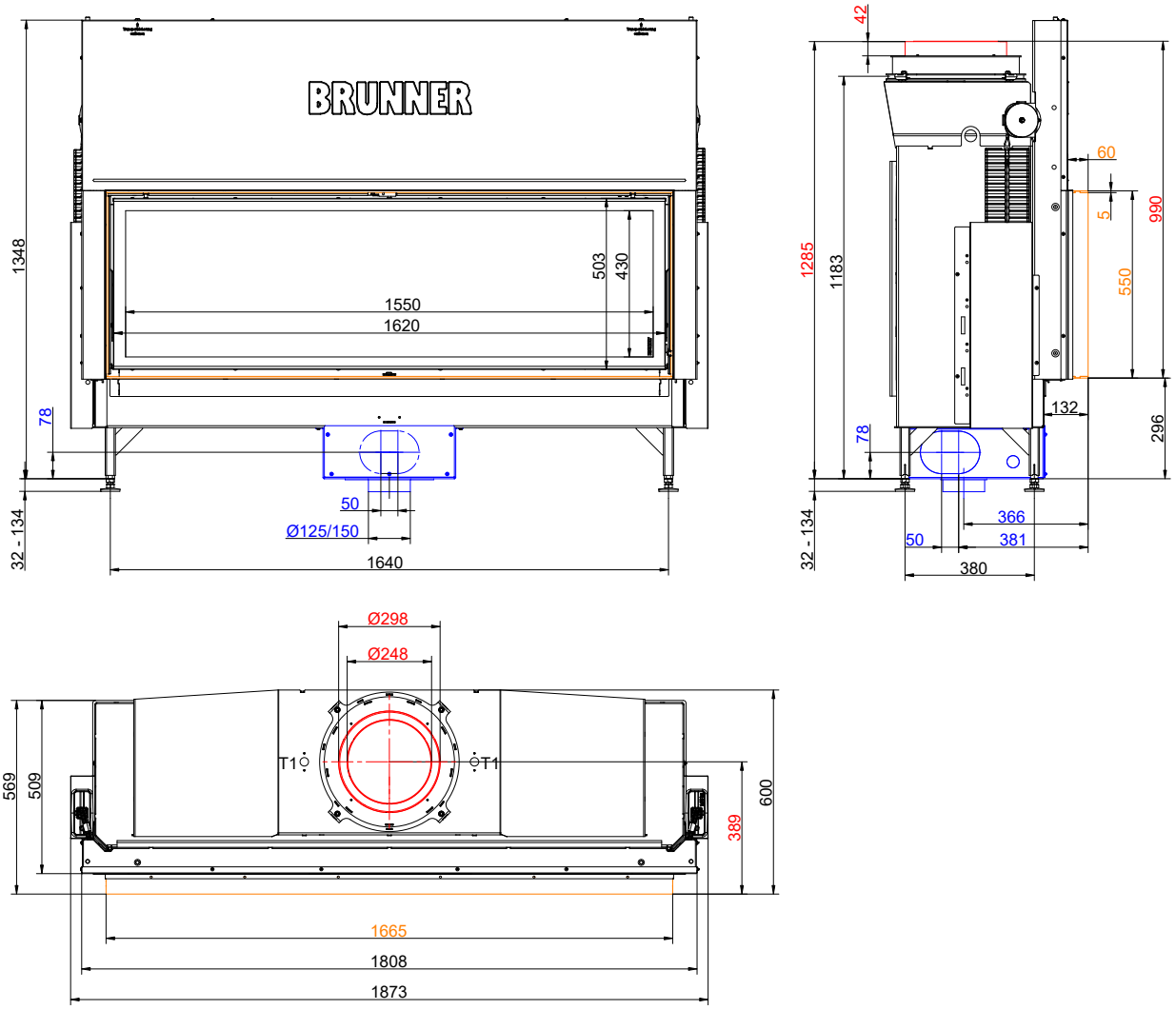
Used catalytic converters are suitable for re-use. Even if they are broken or damaged, they are suitable for recycling.

Contained precious metals can be recovered by thermal or chemical separation techniques to almost 90%, and then used again in the manufacturing process.

Please bring the used cacatalytic converter to a recycling center.

Thank you very much for your efforts in supporting the protection of environment and sustainable use of resources.

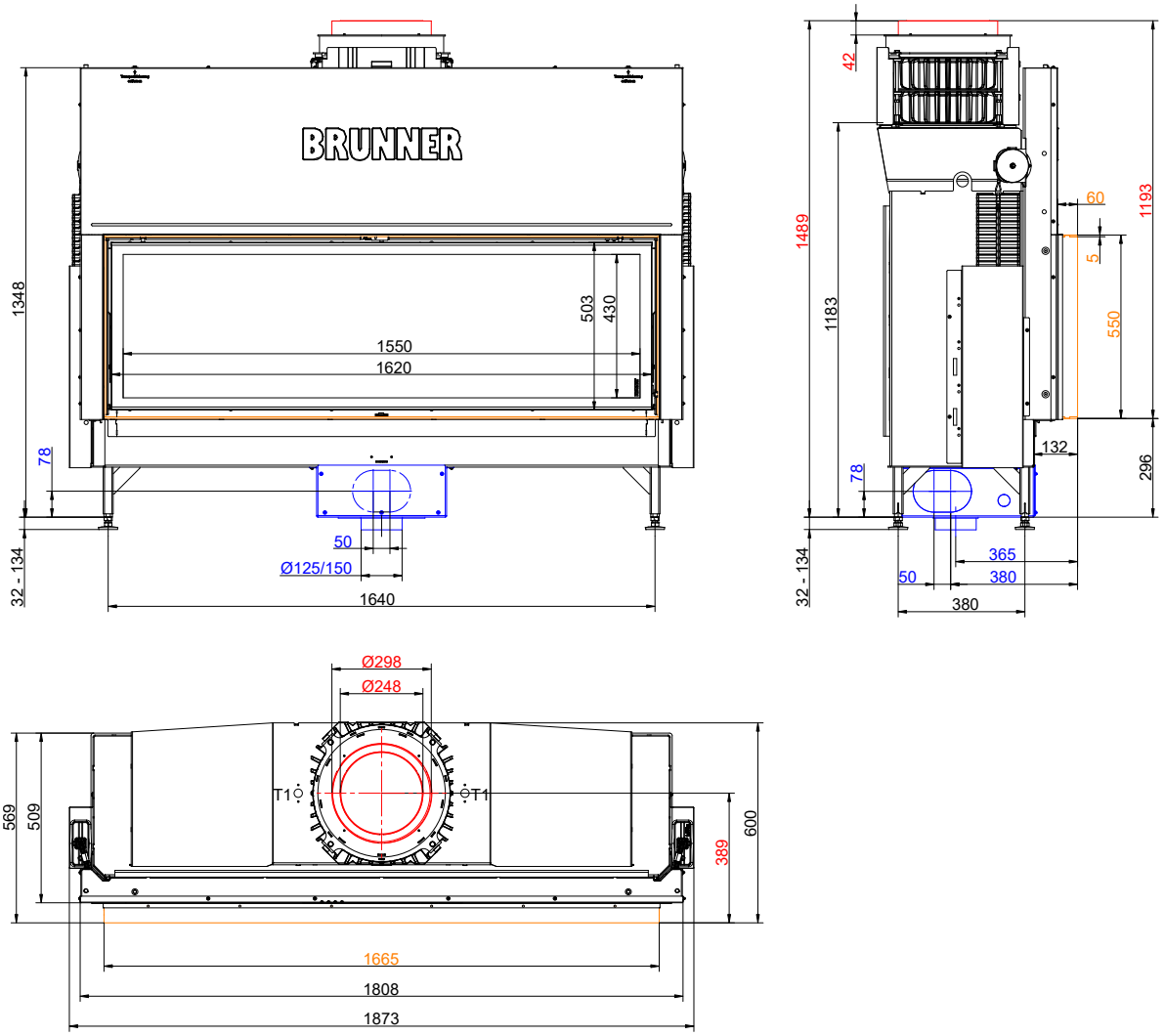
Dimension sheets - BKH flat 50-162 lifting door



… with mounting frame

Stand: 2025-07-07

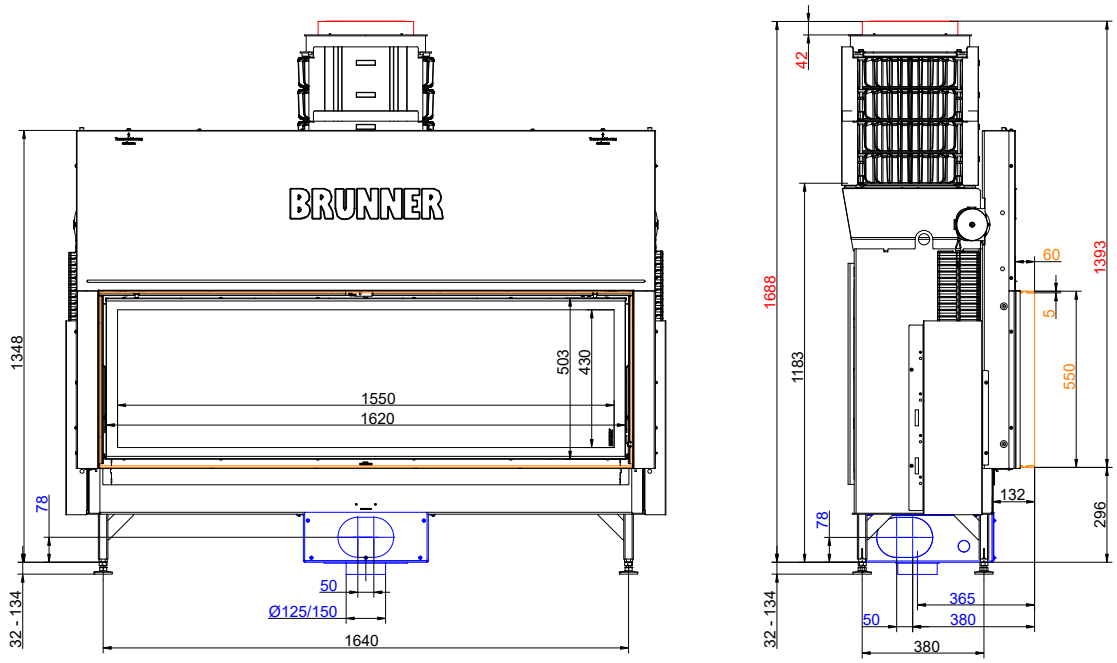
Dimension sheets - BKH flat 50-162 lifting door

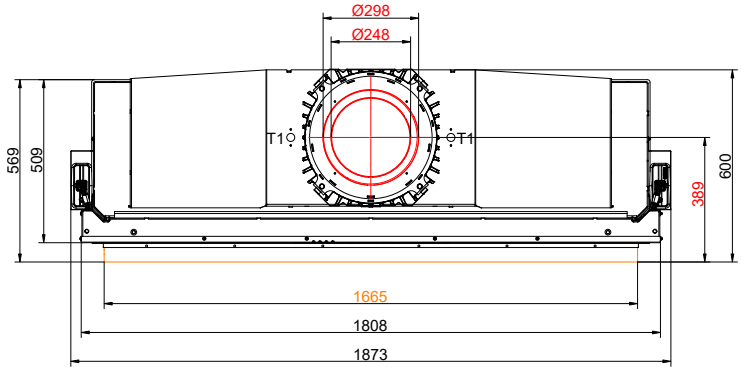


… with mounting frame and 2x cast iron heat exchanger rings

Stand: 2025-07-07

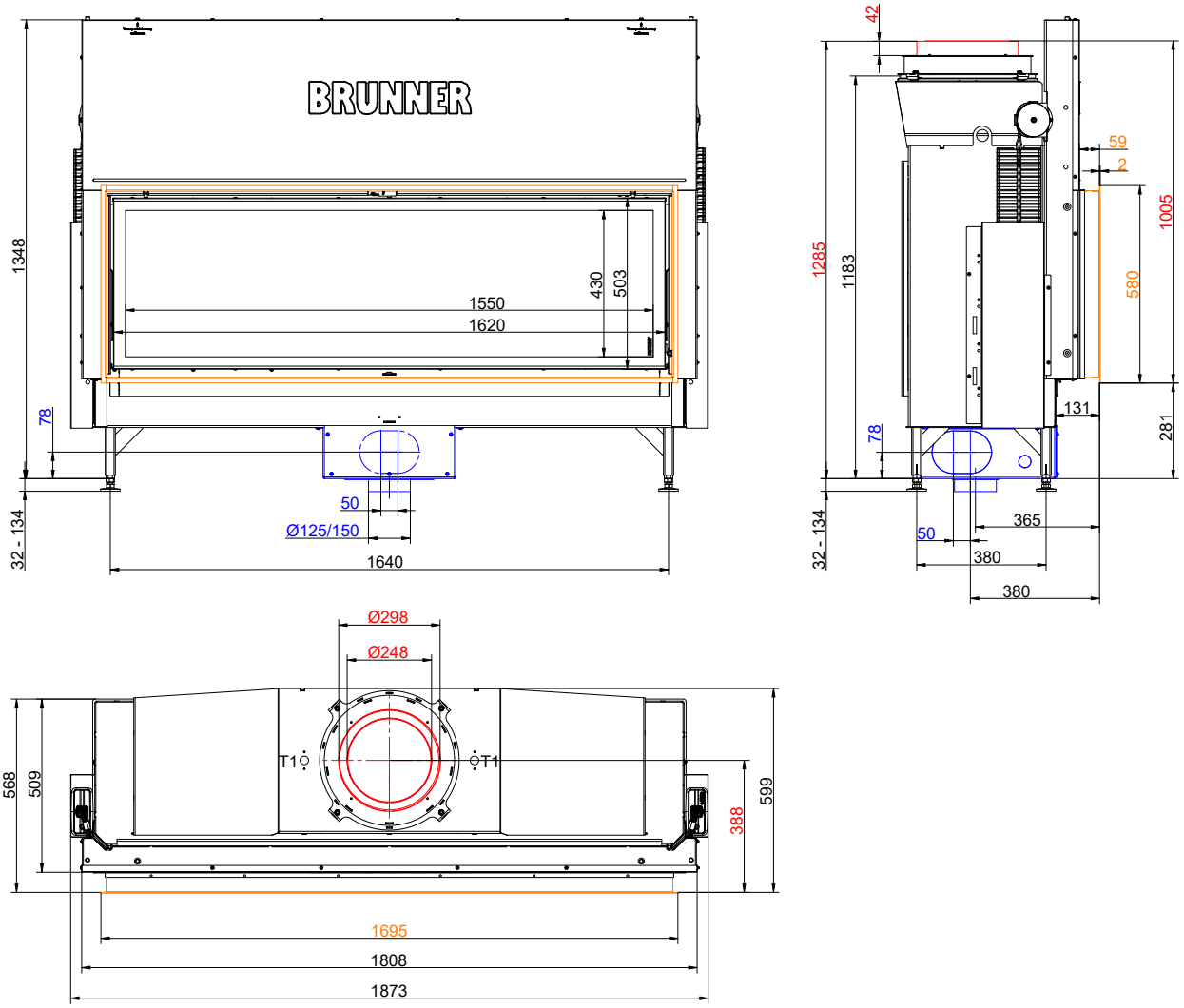
Dimension sheets - BKH flat 50-162 lifting door





… with mounting frame and 4x cast iron heat exchanger rings

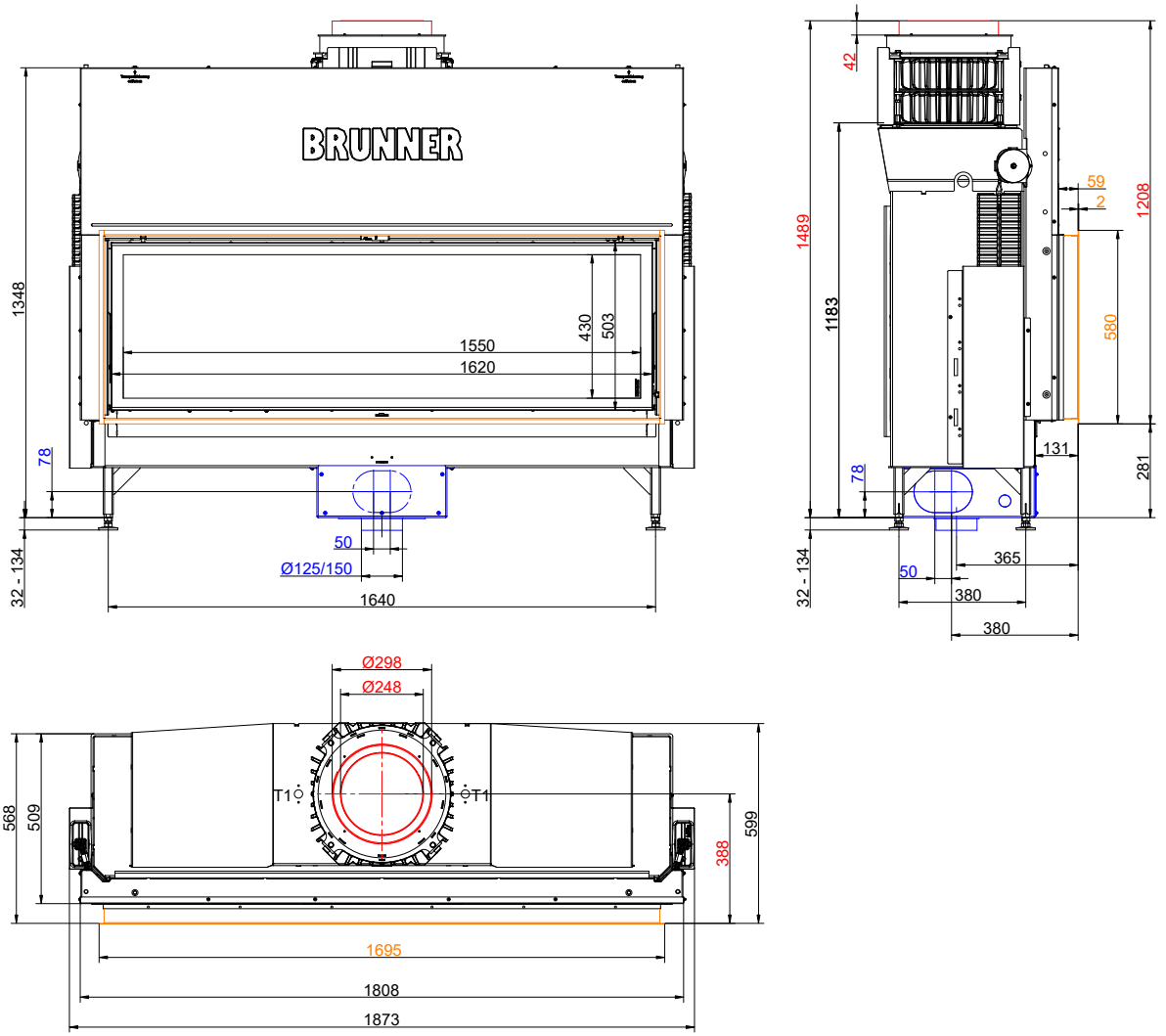
Dimension sheets - BKH flat 50-162 lifting door



… with door frame

Stand: 2025-07-07

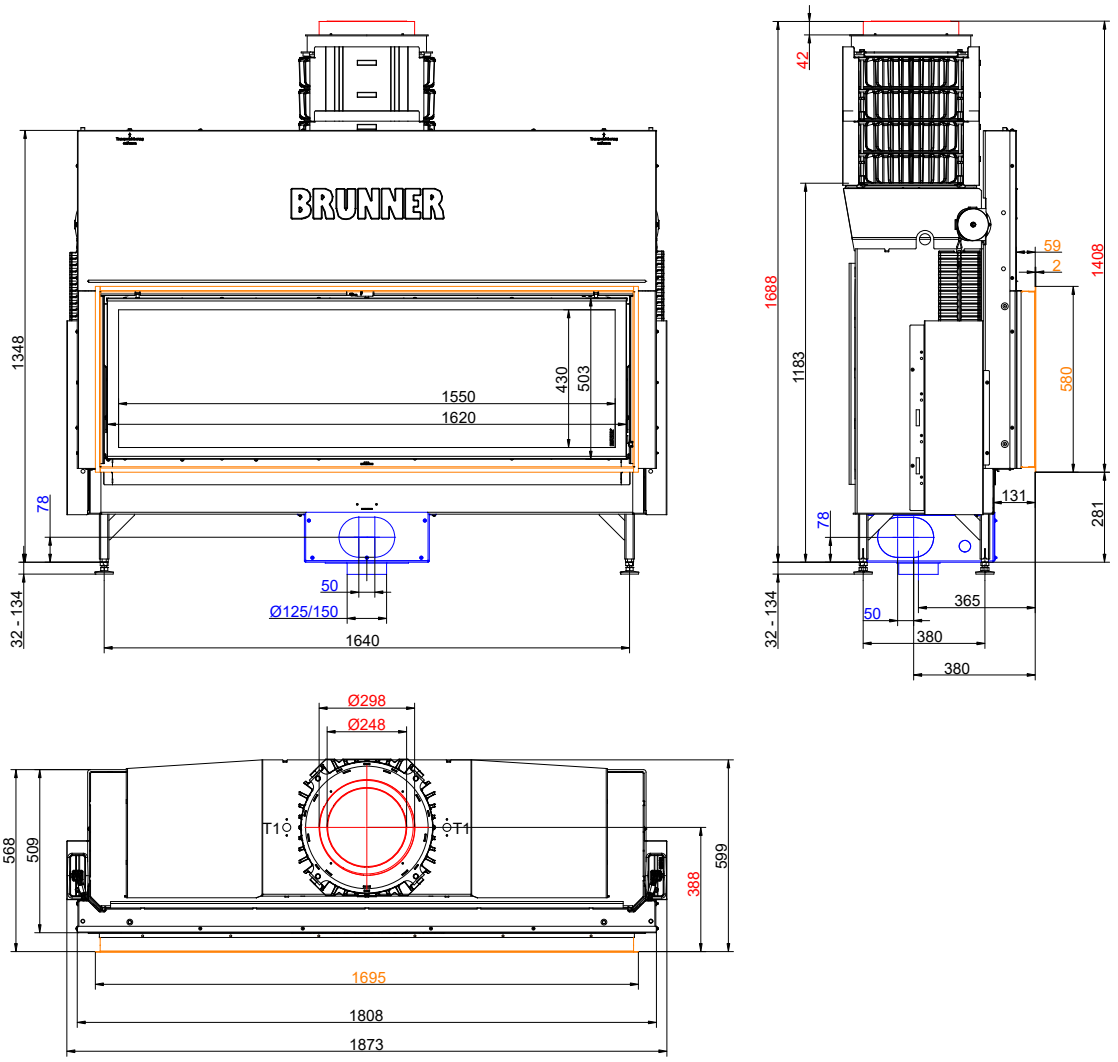
Dimension sheets - BKH flat 50-162 lifting door



… with door frame and 2x cast iron heat exchanger rings

Stand: 2025-07-07

Dimension sheets - BKH flat 50-162 lifting door



… with door frame and 4x cast iron heat exchanger rings

We suggest for CAD planning Palette CAD. Permanent updated drawings: www.brunner.de
Frames/ flue gas outlet connection/ combustion air supply connection/ front variants/ support bearing are marked in color.

Stand: 2025-07-07

Planning and installation - BKH flat 50-162 lifting door

Tested according to		EN 13229 W	EN 13229 WA
Values measured at		Rated power [1]	Storage operation [2]
Data for functional demonstration			
Rated heat power	kW	14.5	-
Fire wood volume	kg/h	4.1	5.3
Combustion performance	kW	17	23
Flue gas mass flow	g/s	12	19
Flue gas temperature after:			
Flue outlet nozzle Ø	°C	250	290
2 x / 4 x cast iron heat exchanger rings + dome	°C	190 / 160	230 / 180
Necessary supply pressure	Pa	13	13
Fuel amount	kg	4.9	6.3
Combustion air consumption	m³/h	42	54
Combustion air connection Ø	mm	150	150
Heat distribution			
Insert / reheating surface	%	30 / 30	30 / 30
glass ceramic / glass ceramic coated (GKB)	%	40 / 30	40 / 30
Cross-section of gratings [3]			
exhaust warm air	cm²	1000	1000
Recirculation air	cm²	1000	1000
Minimal oven surface for closed construction type			
Heat dissipating surface	m²	6.5	6.5
Minimal distances of the fireplace			
Heat protection panel for cladding, insulation layer	cm	-	-
to cladding, insulation layer	cm	5	5
to the floor (non-combustible)	cm	3	3
Fire protection with active rear ventilation, intermediate space			
Minimum insulation thickness for construction : insulation material I 5 cm rear active ventilation I wall [4]			
for mounting wall (combustible/non-combustible)	cm	5	5
Minimum insulation thickness for construction: insulation material I 30 cm closed gap I ceiling [5]			
for ceiling (combustible)	cm	10	10
Fire protection with adequate insulation material			
Minimum insulation thickness for construction: insulation material I mounting wall, ceiling, floor [5]			
with heat protection panel, mounting wall (non-combustible) [6]	cm	6	6
with heat protection panel, mounting wall (combustible) [6]	cm	12	12
Mounting wall (non-combustible)	cm	8	8
Mounting wall (combustible)	cm	18	18
Ceiling (non-combustible)	cm	8	8
Ceiling (combustible)	cm	22	22
Floor (non-combustible)	cm	0	0
Minimum distances in front of the combustion chamber, glass ceramic / glass ceramic coated (GKB)			
for combustible parts	cm	≥ 120 / ≥ 80	≥ 120 / ≥ 80
Weight			
Fireplace insert + combustion chamber inner lining chamotte/cast iron	kg	354 + 156 / 196	
Meets requirement/limit values for:			
EU / Germany		Ecodesign / 1. BImSchV (Stufe 2)	

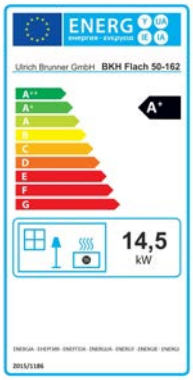
1) Indications to "Rated power" determined with 4 heat exchanger rings made of cast iron and Ø200 dome.
2) Indications to "Storage operation" for the manual execution of the reheating surface (guide values).

Planning and installation - BKH flat 50-162 lifting door

3) Air cross-sections if the specified nominal heat output is desired as the heat output.
4) Fire safety: Values determined with air cross-sections recorded for testing purposes; active rear ventilation, stove shell is heat emitting.
   Insulation thickness 5 cm calcium silicate board (brands: Promasil, Silka, Skamol) and 5 cm active rear ventilation with diagonally positioned air circulation and supply air openings of 75 cm^2 (5x15 cm) each. For detailed design, see assembly instructions.
5) Fire safety: values determined in safety test with air cross-sections recorded for testing purposes; stove shell is heat emitting.
   Information on replacement insulation material with calcium silicate boards (brands: Promasil, Silka, Skamol).
   The specifications for non-combustible walls/ceilings and the structure with a closed gap (30 cm) correspond to the specifications of TROL (Germany), see assembly instructions.
6) Heat protection plate: accessory for BKH flat/tunnel/corner versions; factory-fitted for BKH panoramic fireplaces.

Product data sheet according to (EU) 2015/1186:

Supplier's name or trademark	Ulrich Brunner GmbH
Model identifier:	BKH 5.0 Flach 50-162
Energy efficiency class:	A+
Direct heat output:	14,5 kW
Indirect heat output:	N.A. kW
Energy efficiency index:	115,8
Fuel energy efficiency (at nominal heat output):	84,0 %
Fuel energy efficiency (at minimum load):	N.A. %
Special precautions: see supplied product documentation	



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E-Mail: info@brunner.de

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