Installation Manual

BKH 5.0 Tunnel 42-50



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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.





2 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.

3 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.





NOTEAdditional helpful information



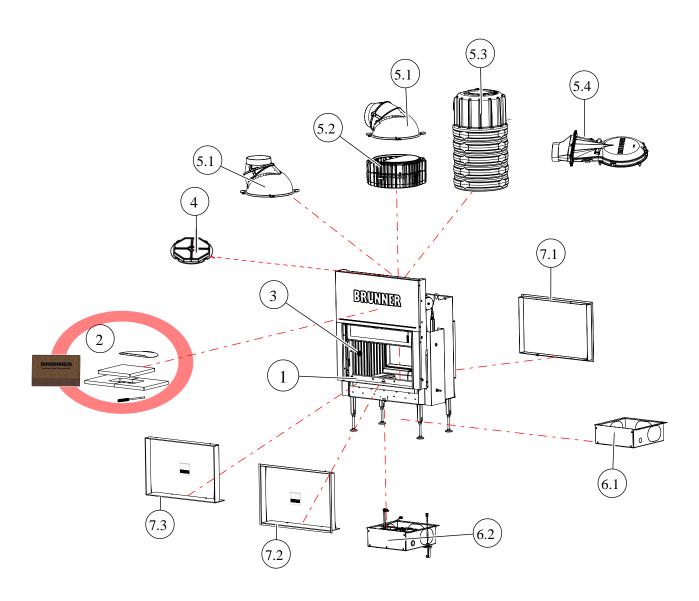
4 DELIVERY CONTENTS BKH 42-50 TUNNEL

Available variants with lifting door and side-opening door (ST/DT)



Attention: Tunnel inserts can only be operated on one side, the other side is equipped with an inspection handle. With the EAS version, only one door contact switch is installed on the operating side.

With ST-DT the ST side is therefore the operable side.

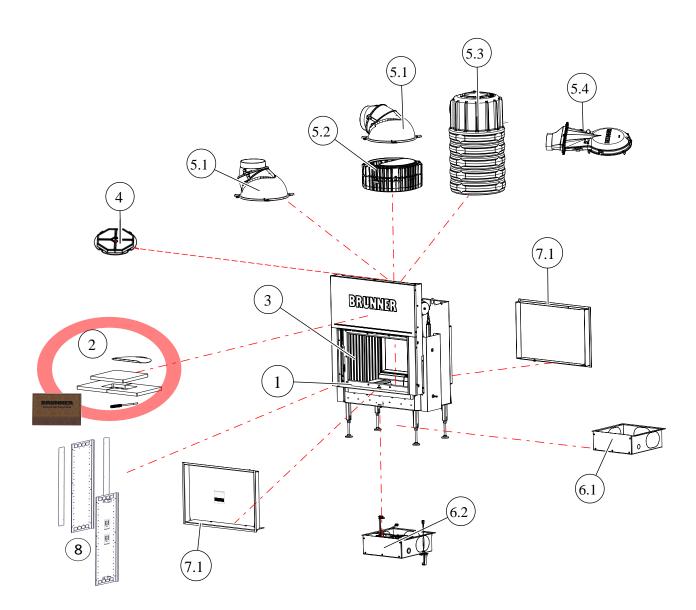




Available variants with side-opening door and side-opening door (DT/DT)



Attention: Tunnel inserts can only be operated on one side, the other side is equipped with an inspection handle. With the EAS version, only one door contact switch is installed on the operating side.





Designation Art.-Nr. Nos. **BKH** variants: for ST/DT for DT/DT BKH 5.0 Tunnel 42-50 with manual operation,, Ceramic glass HK011002-01 HK012002-01 (GK)Chamotte inner linging (FR) BKH 5.0 Tunnel 42-50 with manual operation, ceramic glass HK011002-05 HK012002-05 coated (GKB)Chamotte inner linging (FR) BKH 5.0 Tunnel 42-50 for EAS/EOS, Ceramic glass (GK) HK011002-02 HK012002-02 Chamotte inner linging (FR) BKH 5.0 Tunnel 42-50 for EAS/EOS, ceramic glass coated HK011002-06 HK012002-06 (GKB) Chamotte inner linging (FR) 1 BKH 5.0 Tunnel 42-50 with manual operation, Ceramic glass HK011002-03 HK012002-03 (GK) Cast iron inner lining (FR/Guss) BKH 5.0 Tunnel 42-50, with manual operation, ceramic glass HK011002-07 HK012002-07 coated (GKB) Cast iron inner lining (FR/Guss) BKH 5.0 Tunnel 42-50 for EAS/EOS, Ceramic glass (GK) HK011002-04 HK012002-04 Cast iron inner lining (FR/Guss) BKH 5.0 Tunnel 42-50 for EAS/EOS, ceramic glass coated HK011002-08 HK012002-08 (GKB) Cast iron inner lining (FR/Guss) The non-installed parts (e.g. deflection plates, control levers, etc.) and any accessories ordered (e.g. catalytic 2 converter, packaging with EOS, etc.), including the instructions box, are packed in the combustion chamber 3 Combustion chamber lining: - made of Chamotte or - made of Cast iron 4 Catalyst module BKH 5.0 HK000210 Smoke hood variants Rotating cast iron dome with adjustable connecting piece of D004186 5.1 Rotating cast iron dome with connecting piece d=200 mm 10087 5.2 with heat exchanger rings (SET) R015006-02 Connection variant MAS SET440 5.3 SET211444 5.4 Cast iron dome low D016042 Additional options Supply air connection box ø 125 mm HK000135 6.1 Supply air connection box ø 150 mm HK000136 HK000080 6.2 Supply air connection box ø 125 mm with EOS / EAS for side-opening door HK002150-01 7.1 HK002150-01 Door frame, black 7.2 for lifting door HK003152-01 7.3 Mounting frame, black ST 60mm HK003150-01 8 HK014251 Heat protection panel



4.1 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.



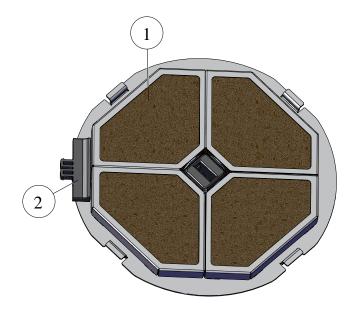
In order not to limit the effect of this catalytically active layer, the catalysts may only be handled with gloves, preferably with disposable gloves.





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



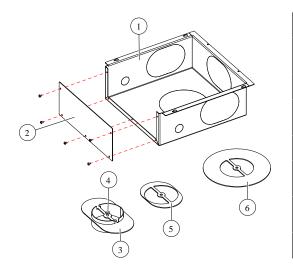
Note

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.

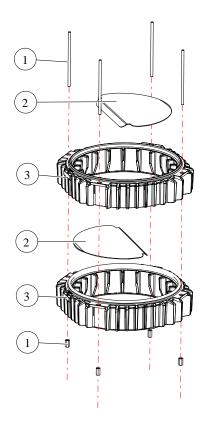


4.2 AIR CONNECTION BOX (OPTIONAL)



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.		

4.3 HEAT EXCHANGER RINGS (OPTIONAL)

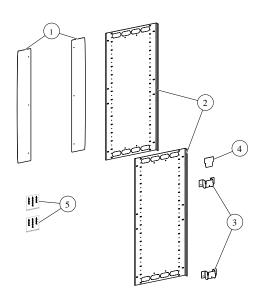


1	separate package (4x threaded rod, 4x hexagon nut)
2	deflection heat exchanger (2x)
3	cast iron heat exchanger rings (2x)



4.4 HEAT PROTECTION PANEL FOR TUNNEL DT-DT

Heat protection panel art. No. HK014251



No.	Designation	
1*	Additions to the heat shield*	
*INFO: 1 are only required for BSK !!!		
2	Heat protection panel	
3	Fitting	
4	Inserting plate	
5	separate package	

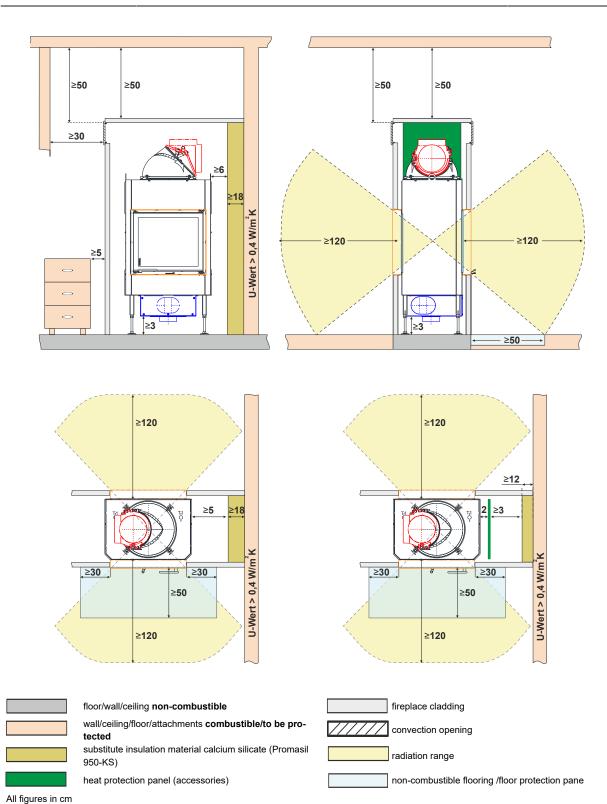
5 SAFETY DISTANCES BKH TUNNEL

Half-height version

without heat protection panel

with heat protection panel





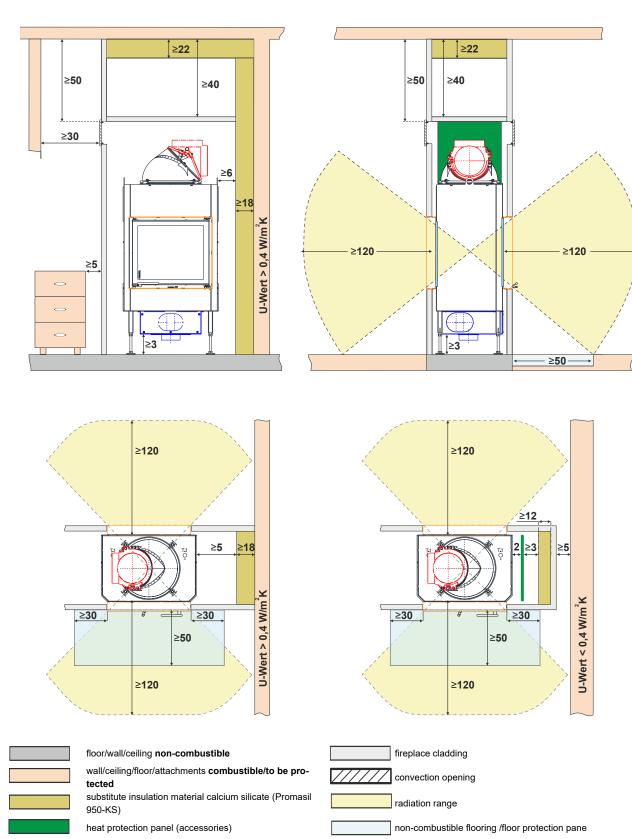
When designing the exhaust system and exhaust pipe, national standards and fire protection regulations must be observed

Floor-to-ceiling version

without heat protection panel

with heat protection panel





All figures in cm

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



6 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.

6.1 REMOVE THE TRANSPORT LOCKS

Side with side-opening door:

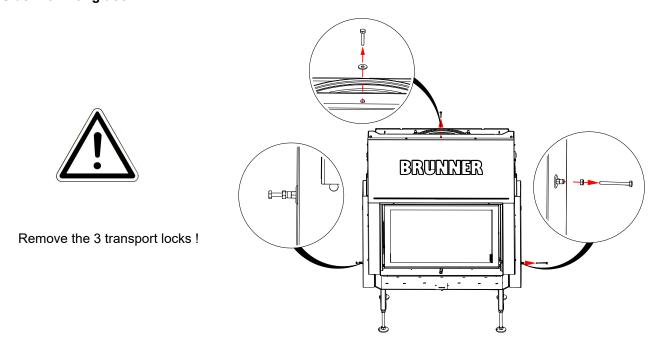


NO TRANSPORT LOCK!





Side with lifting door

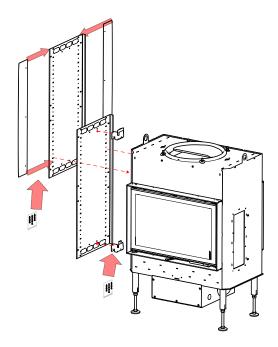


6.2 HEAT PROTECTION PANEL TUNNEL DT-DT



Hint

If you use heat protection panels, they should be mounted before positioning the fireplace insert. First mount the heat protection panels, then place the fireplace insert against the wall.







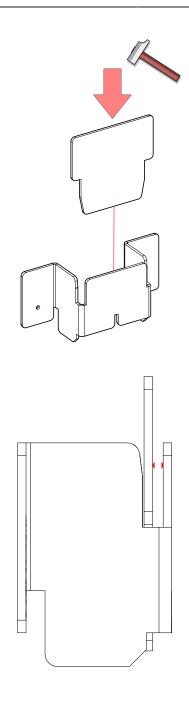
CAUTION
Risk of injury from sharp edges!



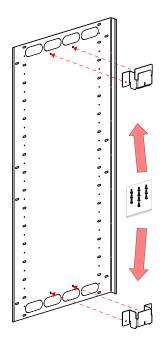


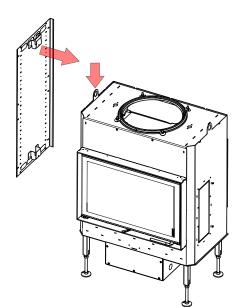
Preparatory work





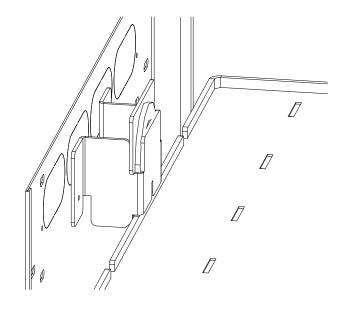


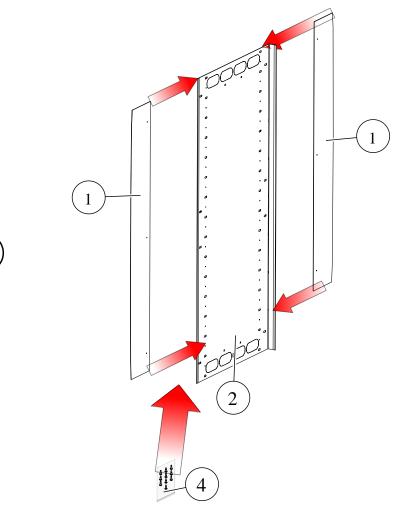




2







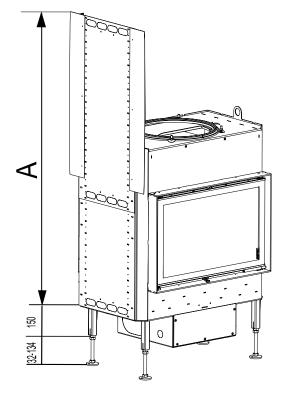




1 are only required for BSK

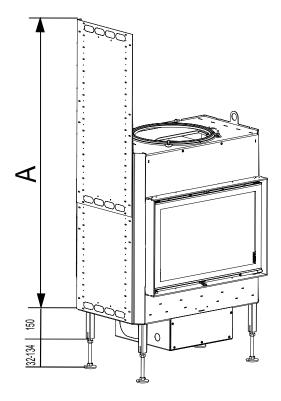


for BKH + BSK :



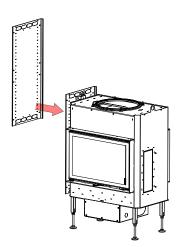
A = max. 1395

for BKH

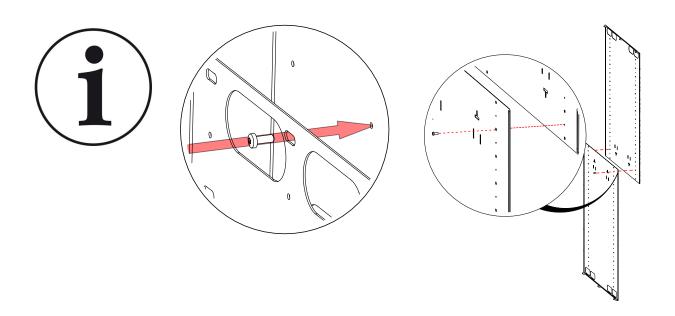


A = max. 1665

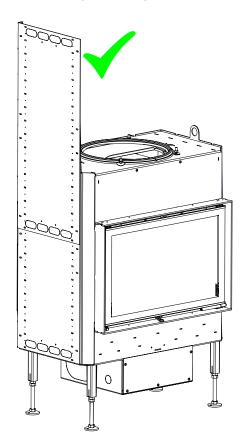




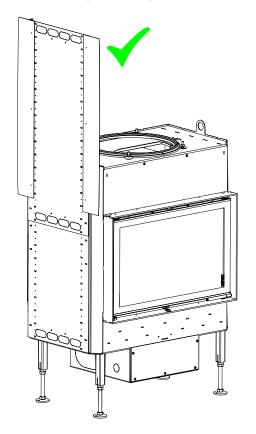




BKH + heat protection panel



BKH + heat protection panel + BSK





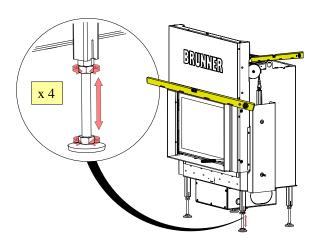
6.3 SET UP THE FIREPLACE

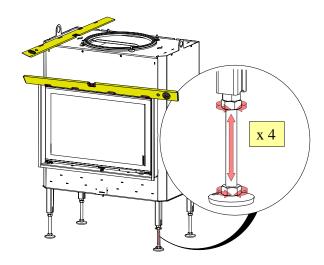


Attention: Tunnel inserts can only be operated on one side, the other side is equipped with an inspection handle. With the EAS version, only one door contact switch is installed on the operating side.

With ST-DT the ST side is therefore the operable side.

Summarised information



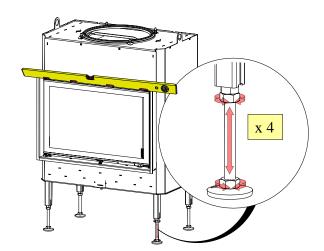


Version without outside air connection

BKH with side-opening door

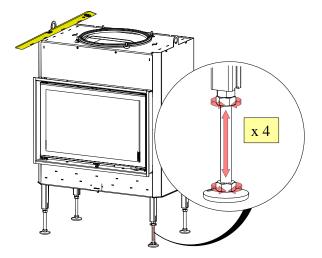








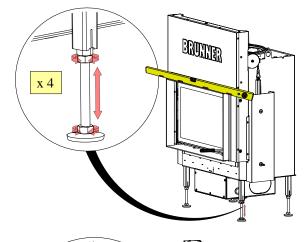




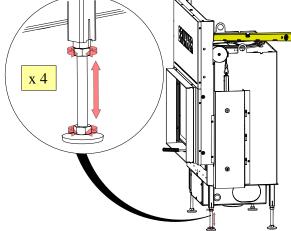
BHK with lifting door

Workflow:





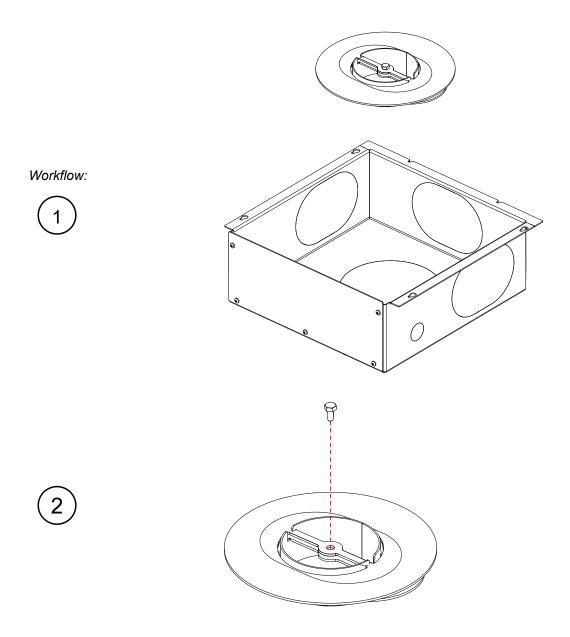




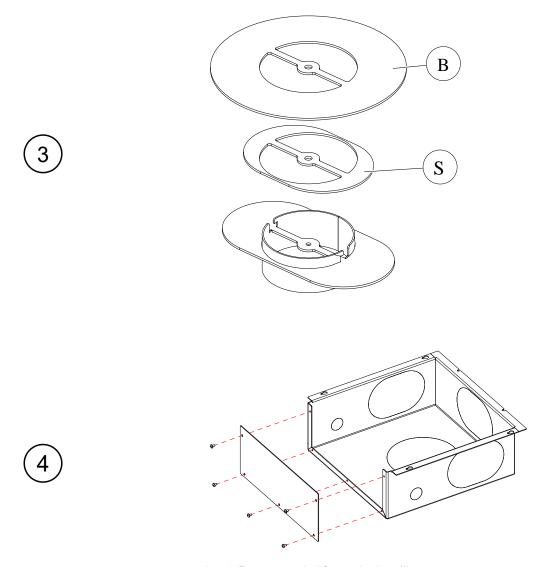


6.4 VARIANT WITH EXTERNAL COMBUSTION AIR CONNECTION

Preparatory work



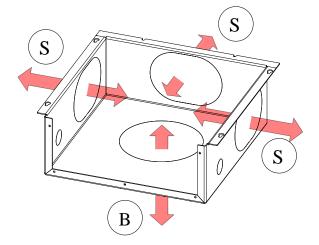




Im. 1: Recommended for easier handling

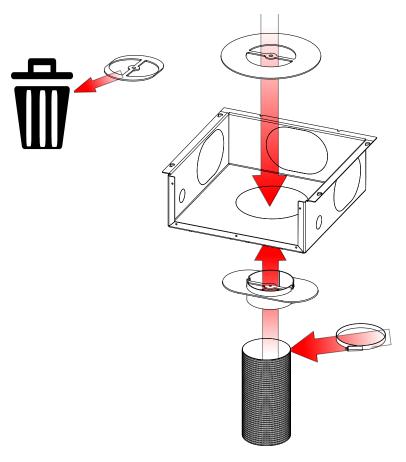
Depending on the planning, the air connection is possible - using aluxflex on 3 lateral parts (S) and also from the bottom (B).

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





6.4.1 BOTTOM CONNECTION (B)



Im. 2: Summarised information

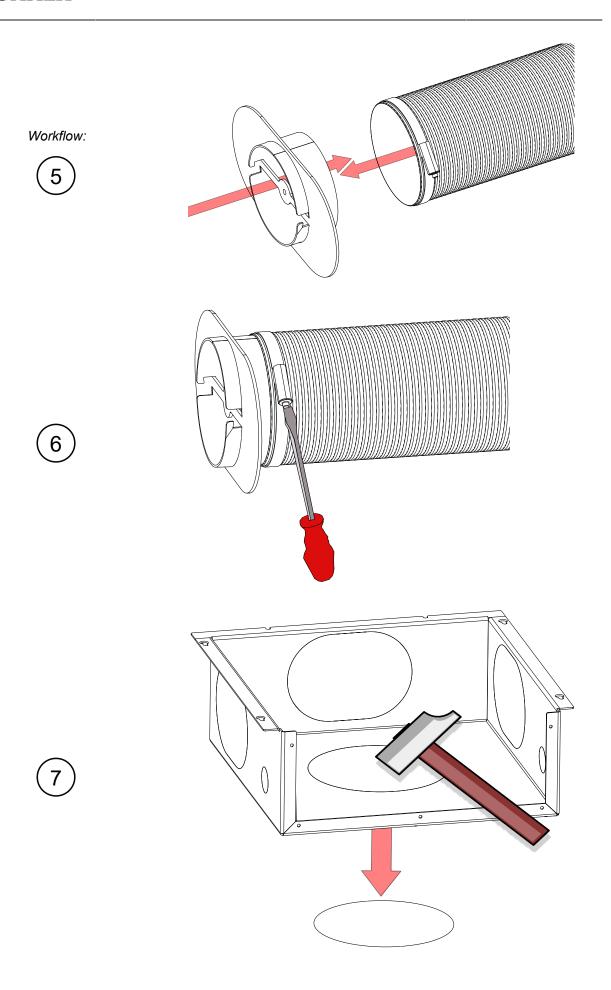


Attention: Tunnel inserts can only be operated on one side, the other side is equipped with an inspection handle. With the EAS version, only one door contact switch is installed on the operating side.

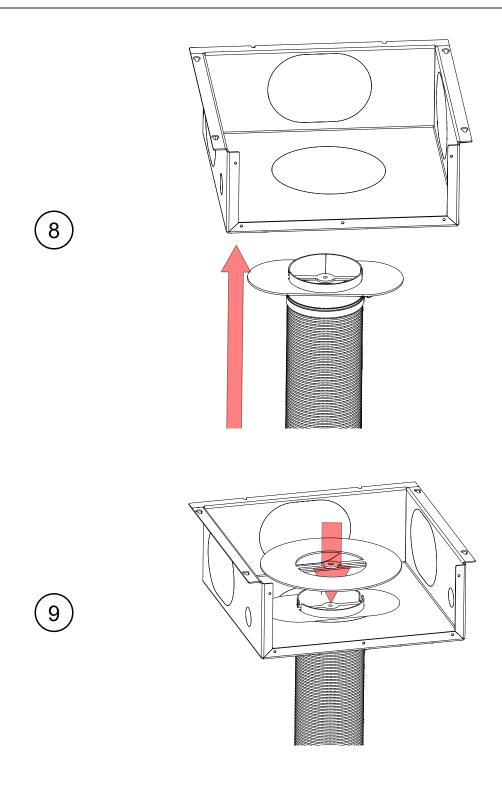
With ST-DT the ST side is therefore the operable side.

The images from this chapter are based on the example: BKH Tunnel DT/DT

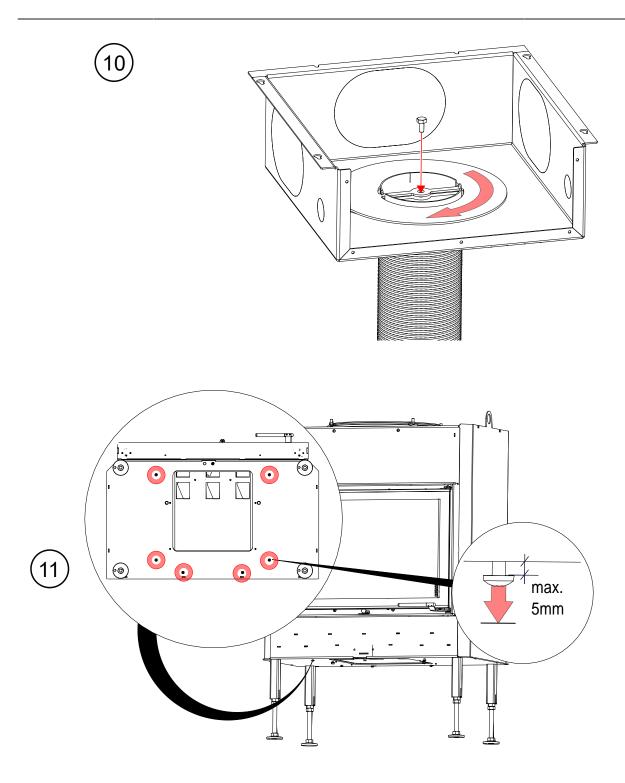




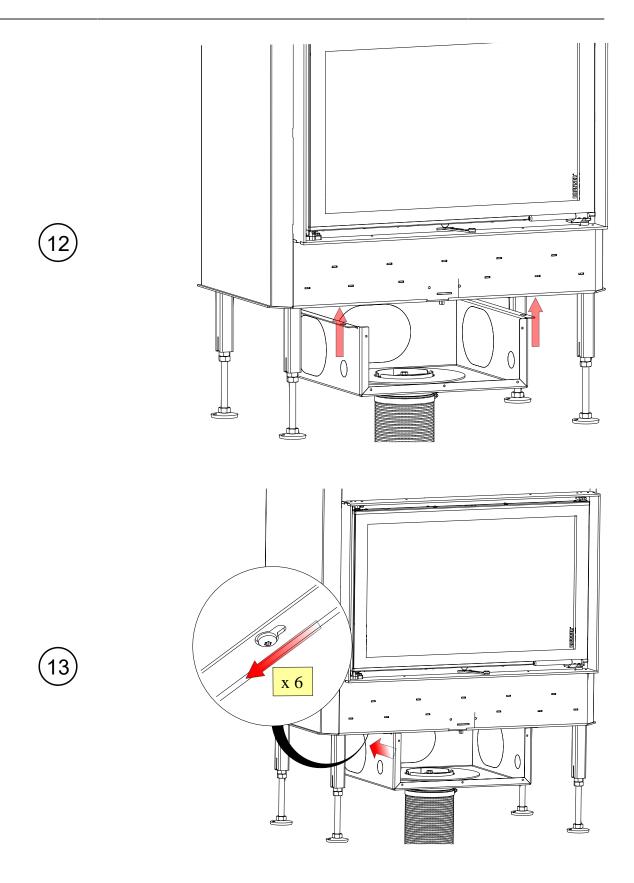




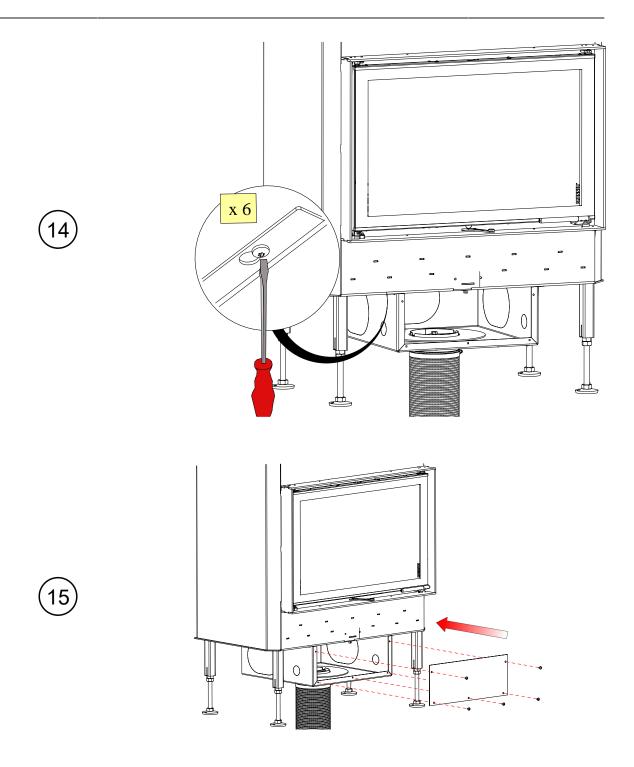






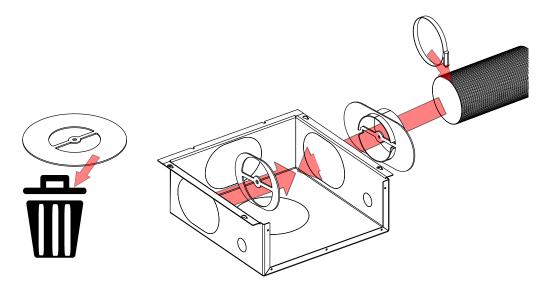








6.4.2 SIDE CONNECTION (S)



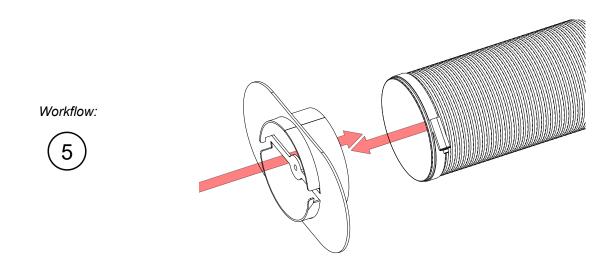
Im. 3: Summarised information



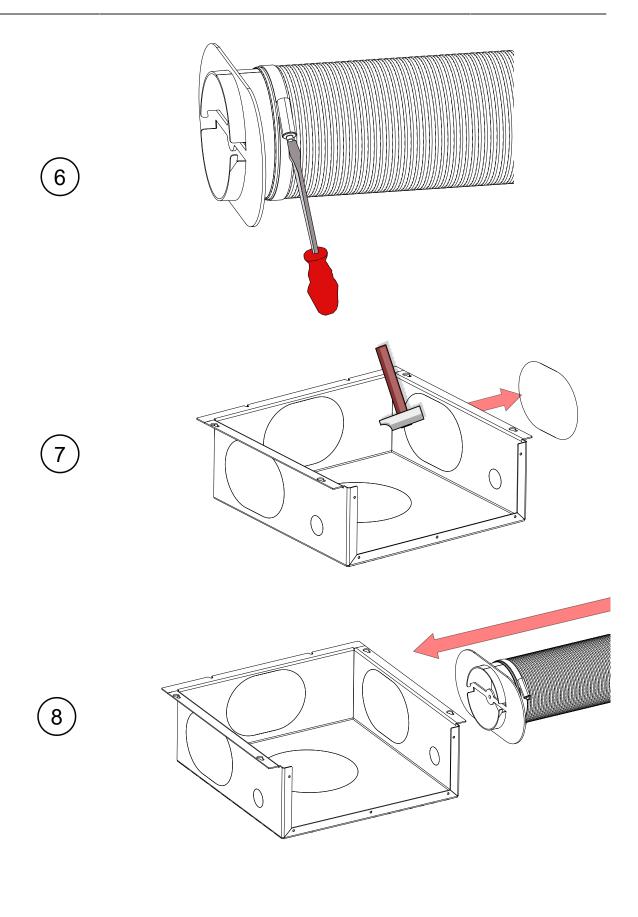
Attention: Tunnel inserts can only be operated on one side, the other side is equipped with an inspection handle. With the EAS version, only one door contact switch is installed on the operating side.

With ST-DT the ST side is therefore the operable side.

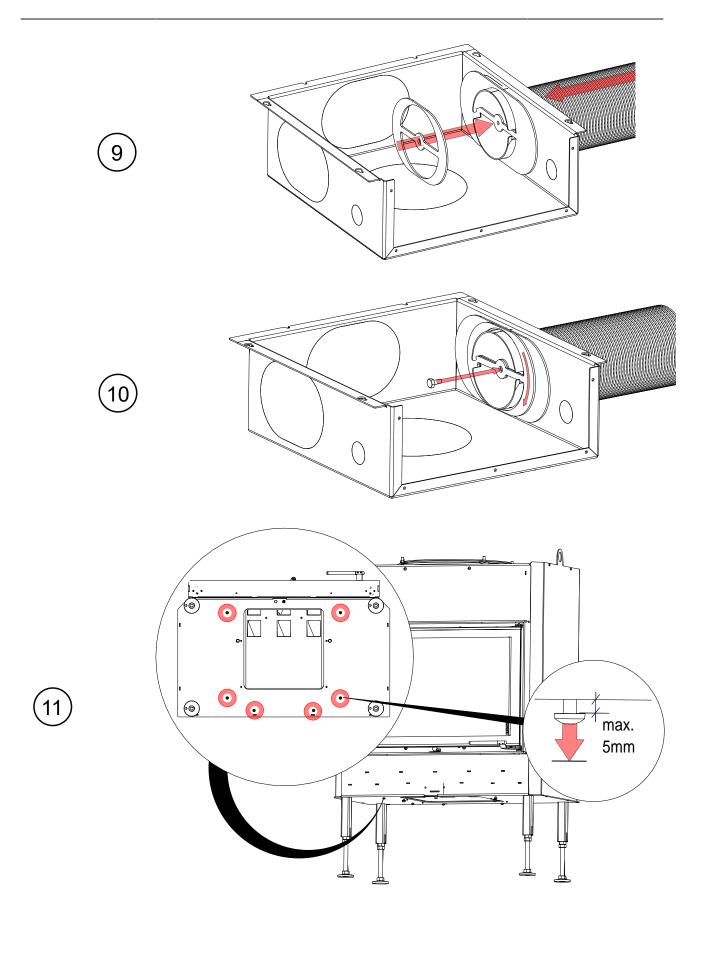
The images from this chapter are based on the example: BKH Tunnel DT/DT







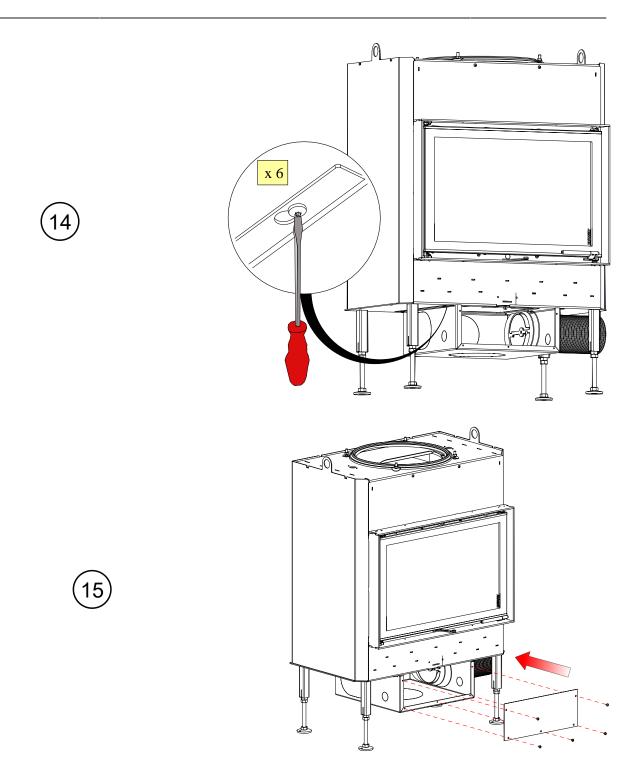






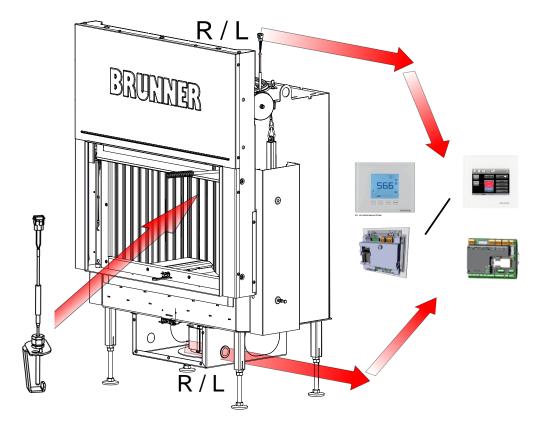
x 6







7 VARIANT WITH EAS OR EOS



Im. 4: Summarised information



Software version:

EOS 8 - version > V1.35

EAS 3 - version > V3.24

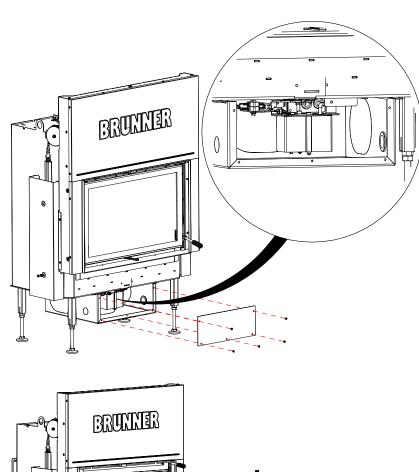


Attention: Tunnel inserts can only be operated on one side, the other side is equipped with an inspection handle. With the EAS version, only one door contact switch is installed on the operating side.

With ST-DT the ST side is therefore the operable side.

The images from this chapter are based on the example: BKH Tunnel ST/DT

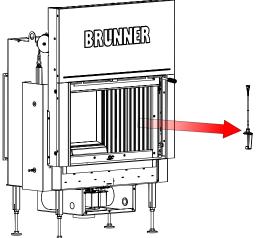




Workflow:







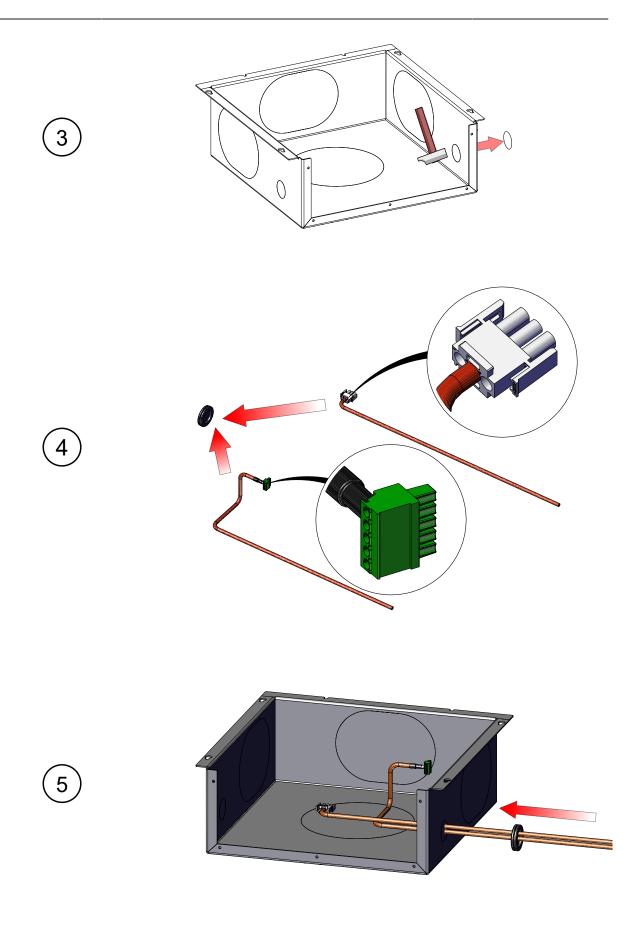


Make the electrical connection

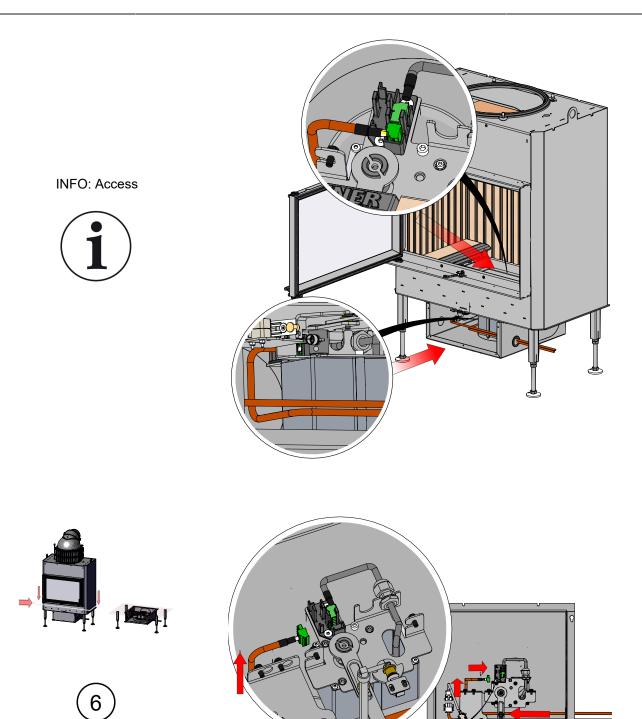
Variants:

cable routing right side or left side

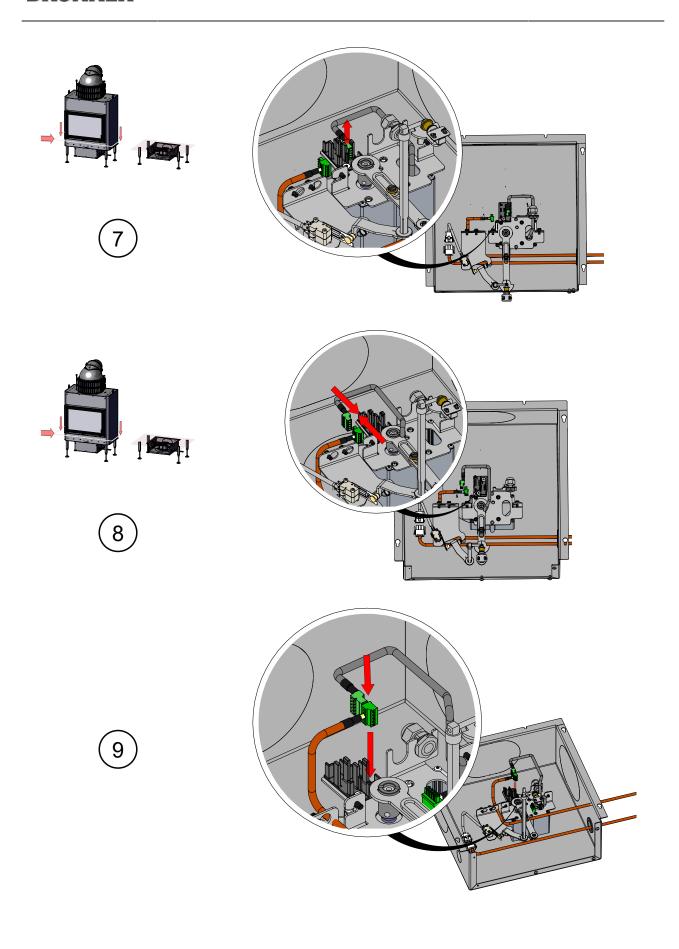




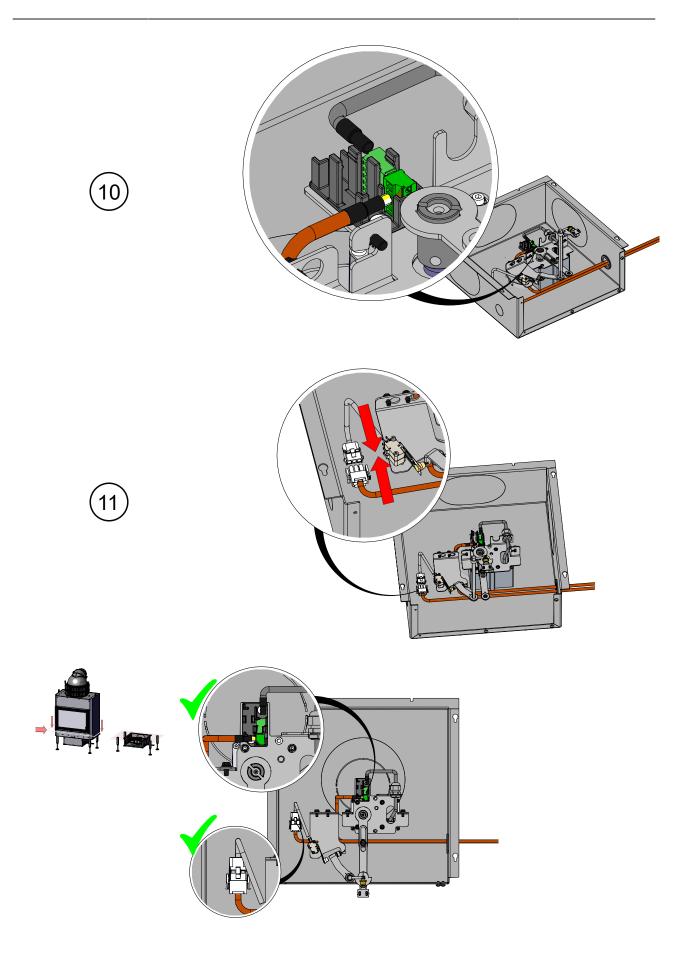




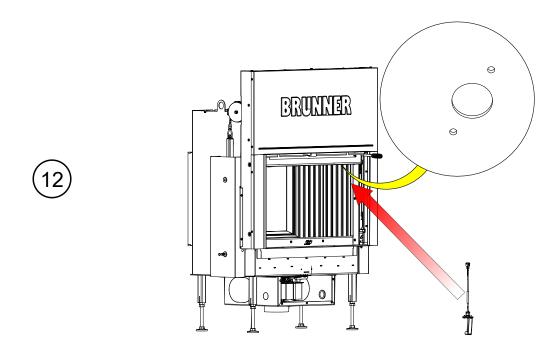






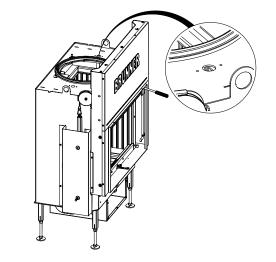




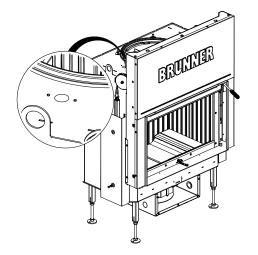


Variants cable routing - Thermocouple: right side or left side

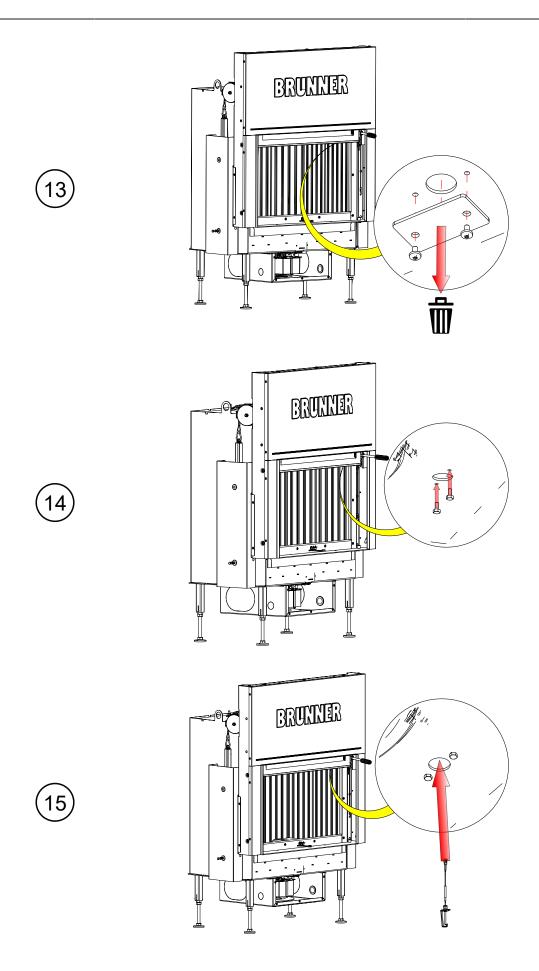




left side:

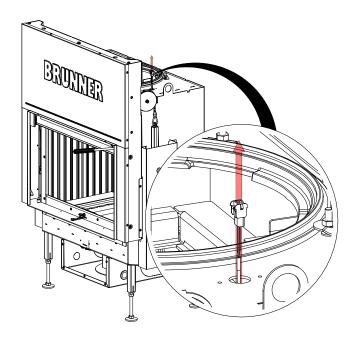








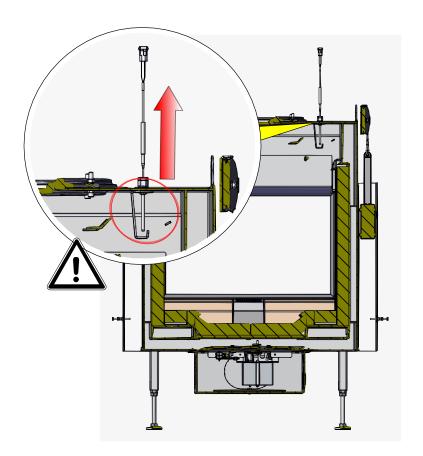
1 Do not overtighten the screws!



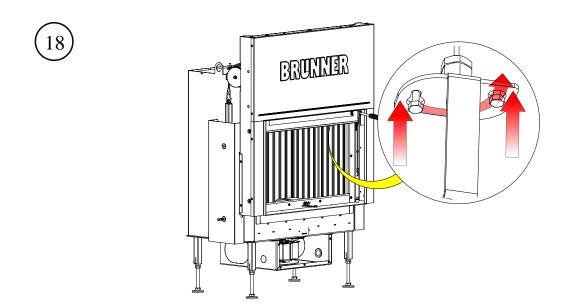








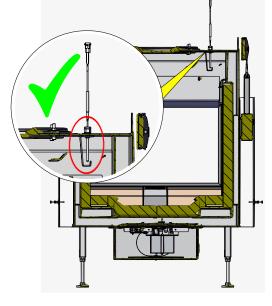


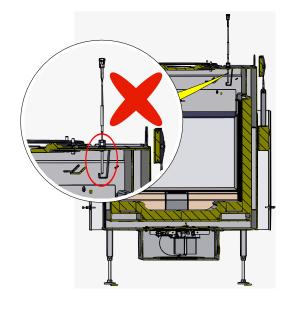


Version : thermocouple right side







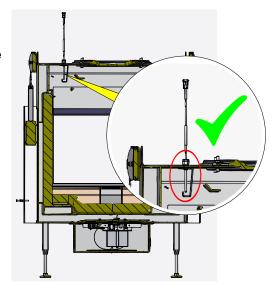


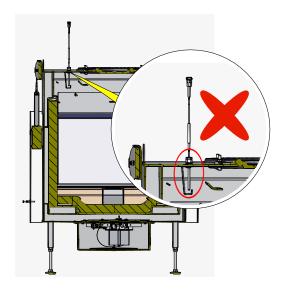


Version : thermocouple - left side

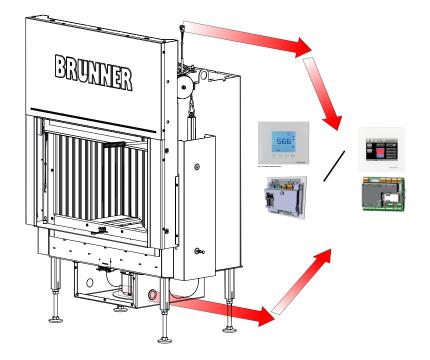






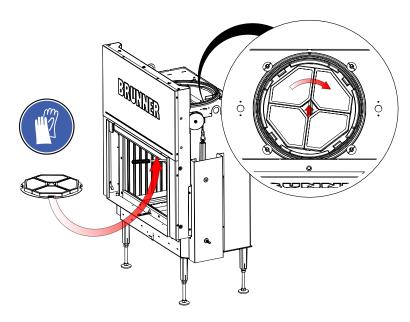




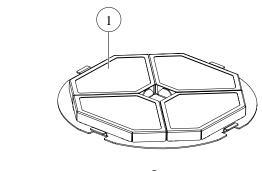




8 FITTING: CATALYTIC CONVERTER



Im. 5: Summarised information







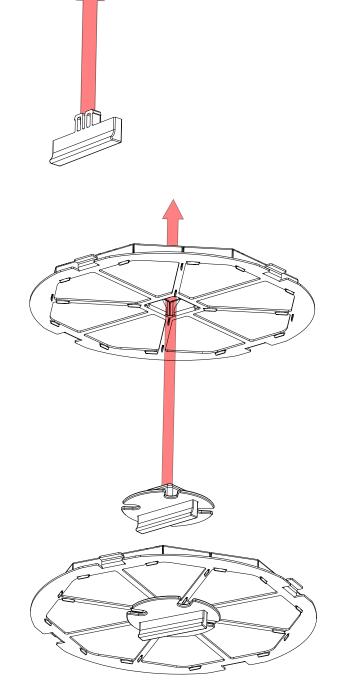


1	catalytic converter
2a+2b	assembly tool



Workflow:

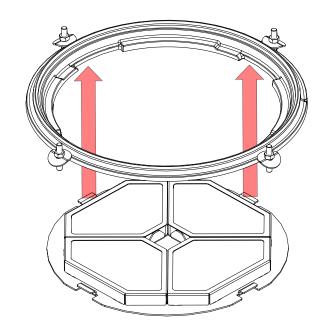






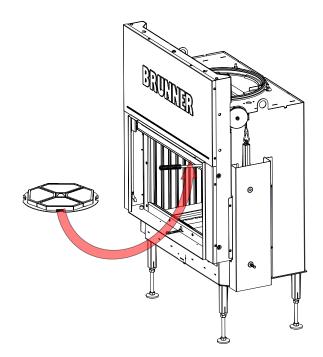




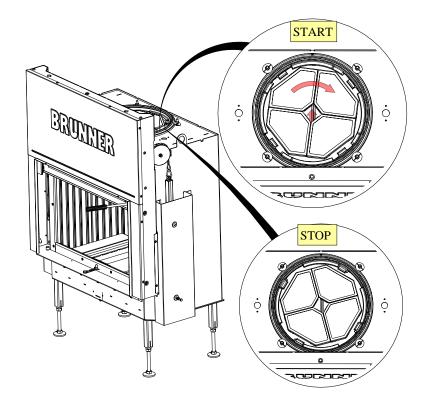


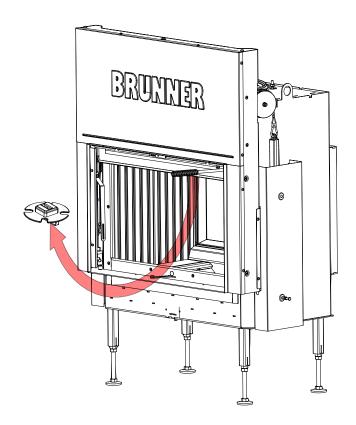










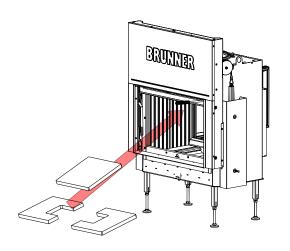


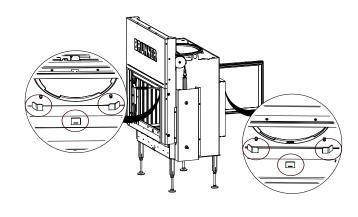




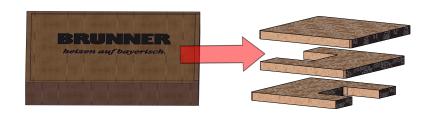
9 FITTING: DEFLECTION COMBUSTION CHAMBER - TUNNEL

Summarised information:





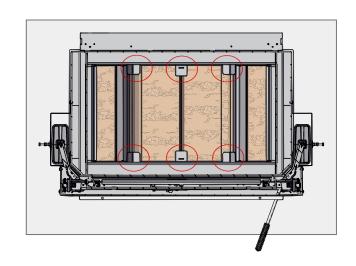




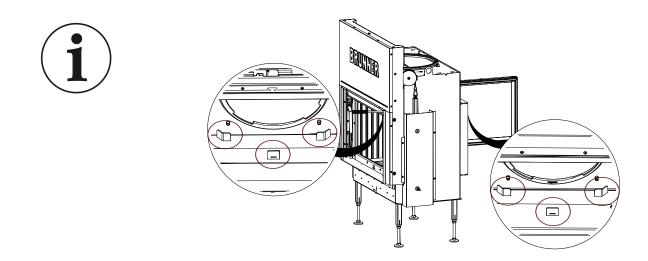
Support points for the deflector plates



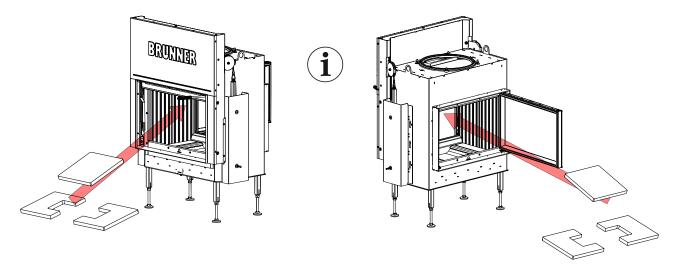








Installation options are: from the front (ST or DT) and from behind (DT):

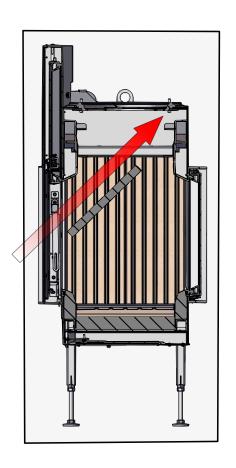




Workflow:



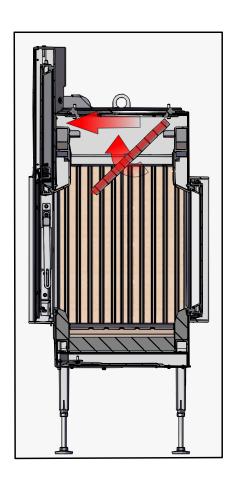








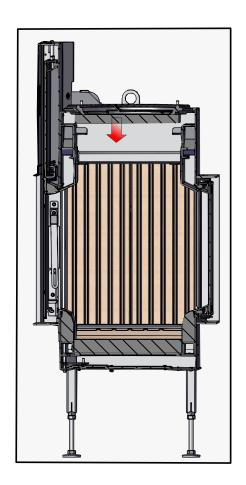






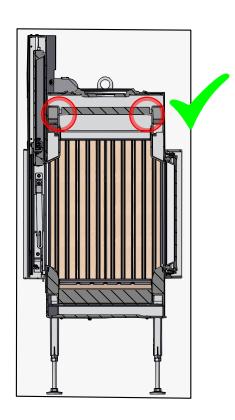




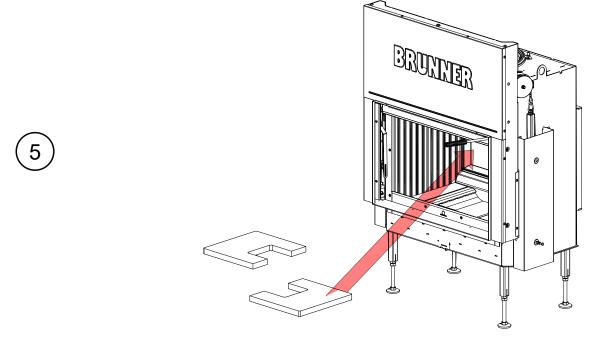


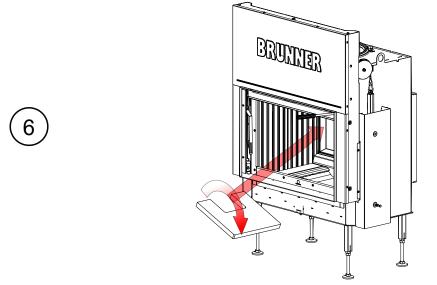








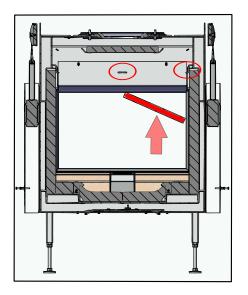


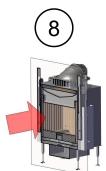


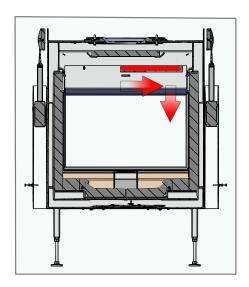






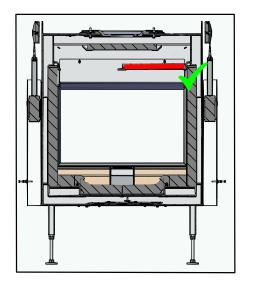




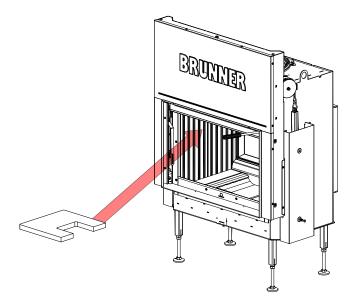




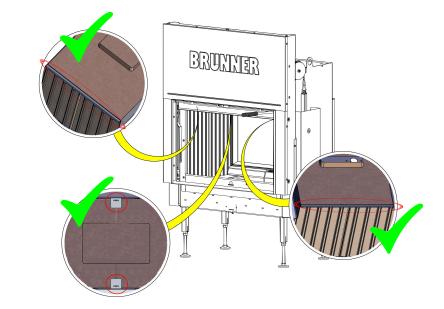










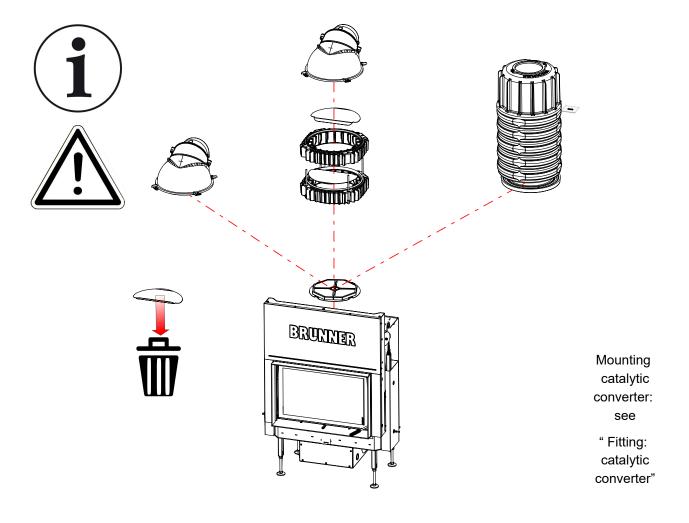






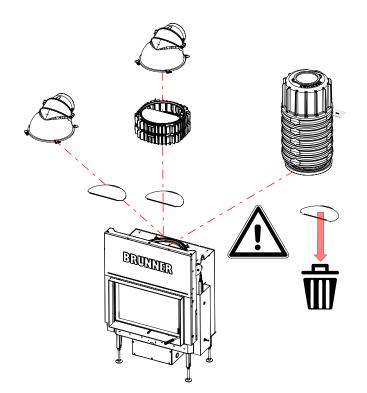
10 VARIANTS HEAT EXCHANGER

10.1 CONNECTION WITH CATALYTIC CONVERTER



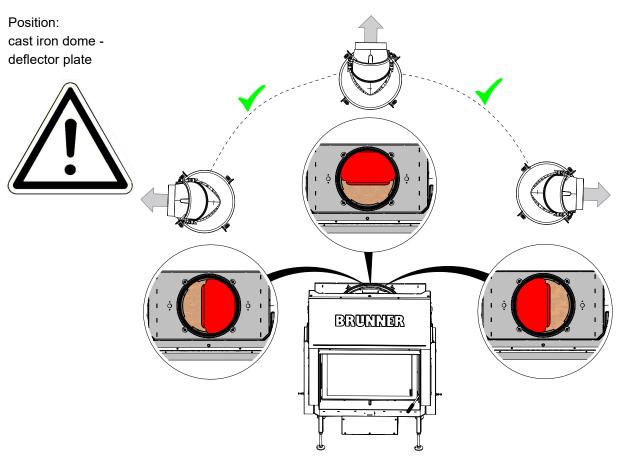


10.2 CONNECTION WITHOUT CATALYTIC CONVERTER





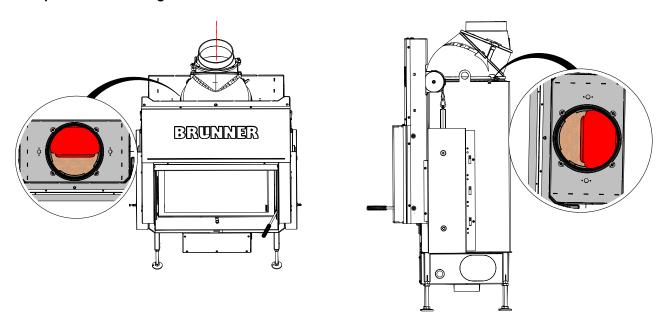
Possible variants of the connection for the outlet of flue gases



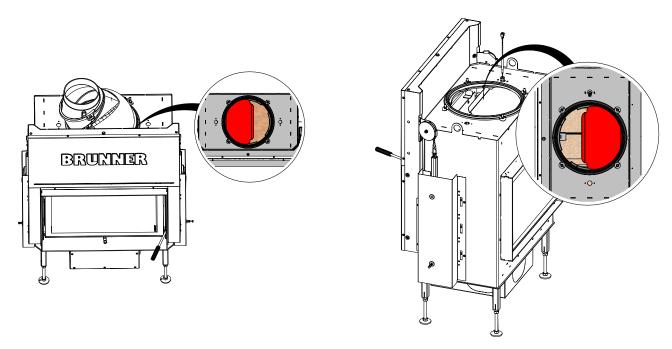


Examples for the position of the deflector plate - Connection variant for exhaust gases

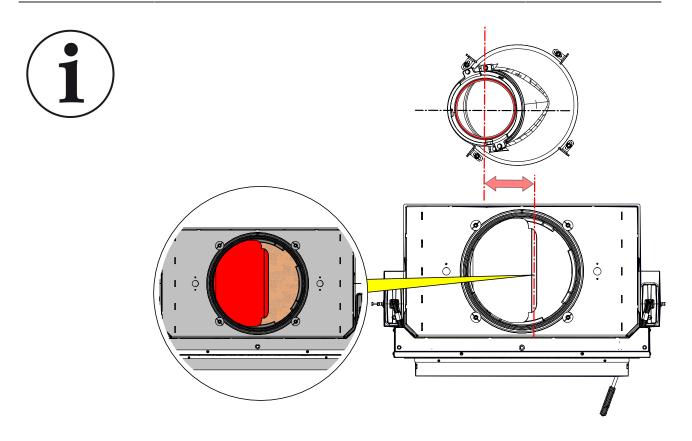
Example A: with rotating cast iron dome - at rear - vertical



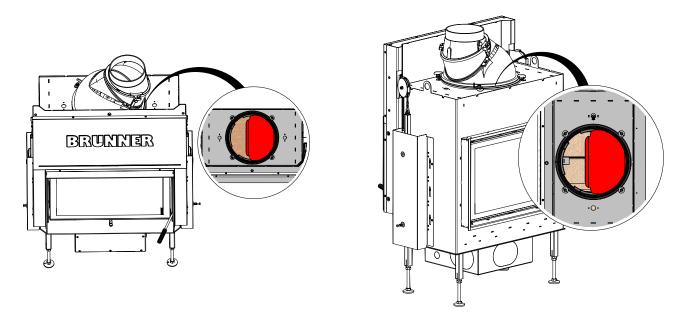
Example B: with rotating cast iron dome - left side - vertical or horizontal







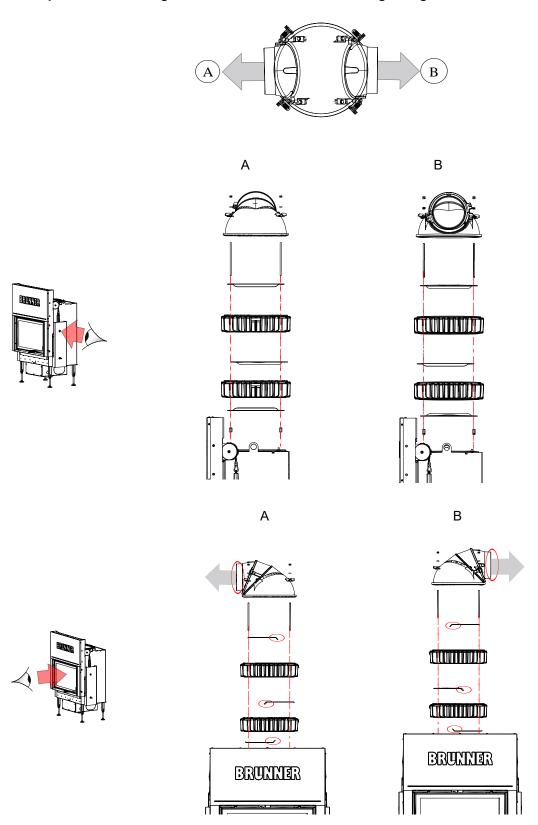
Example C: with rotating cast iron dome - right side - vertical or horizontal





Principle of flue gas routing with heat exchanger rings

Example D: with rotating cast iron dome with heat exchanger ring - to the left - vertical or horizontal



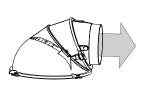


10.3 HEAT EXCHANGER - CAST IRON DOME

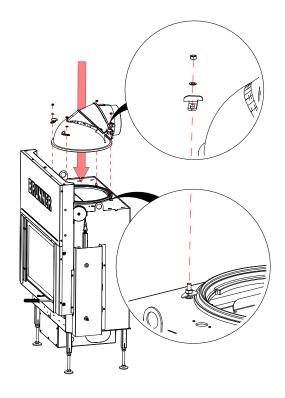
vertical out- horizontal outlet let





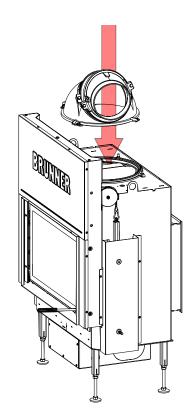


INFO modification: see enclosed sheet - cast iron dome

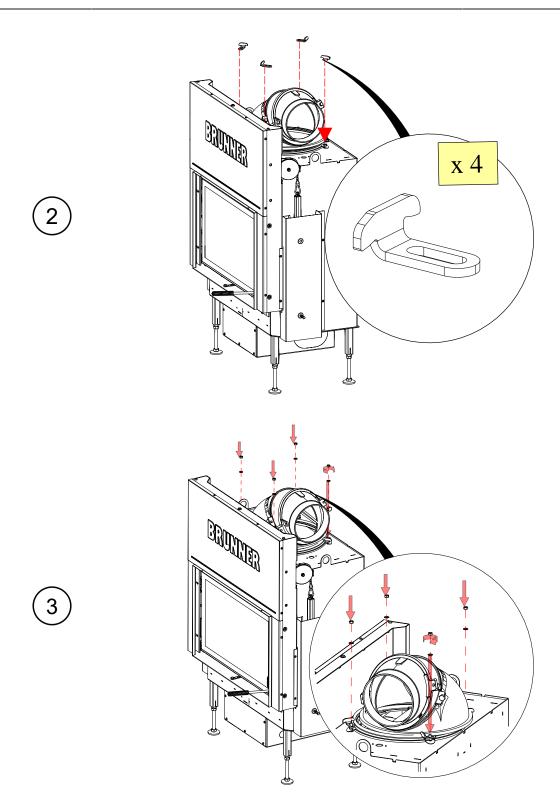


Workflow:

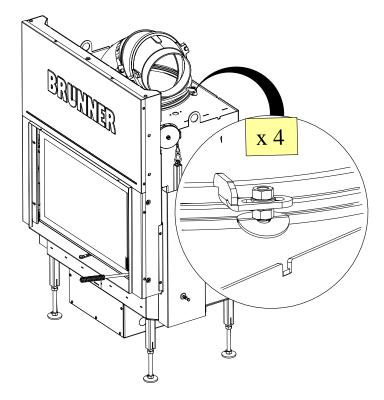










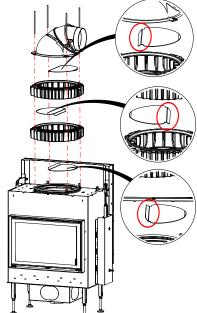






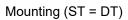
10.4 HEAT EXCHANGER RINGS

Mounting (ST = DT)



Position as planned !! (see also chapter: "Connection without catalytic converter")

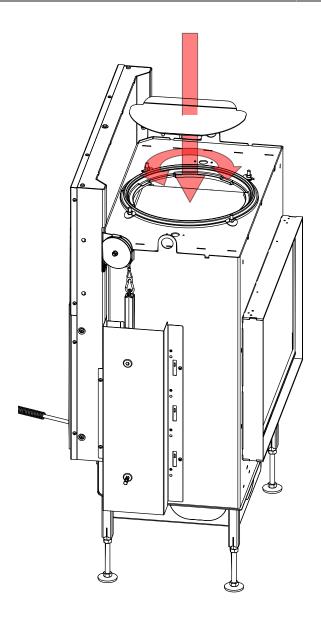




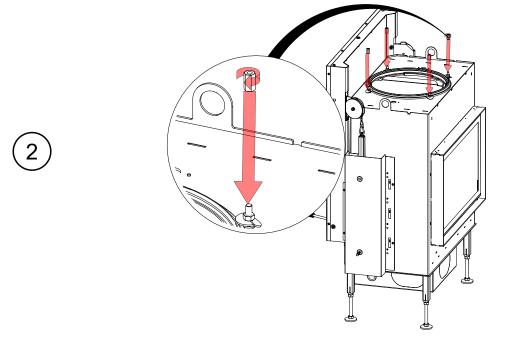


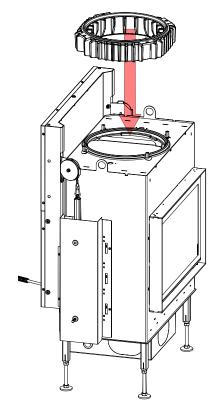


Position as planned !! (see also chapter: "Connection without catalytic converter")



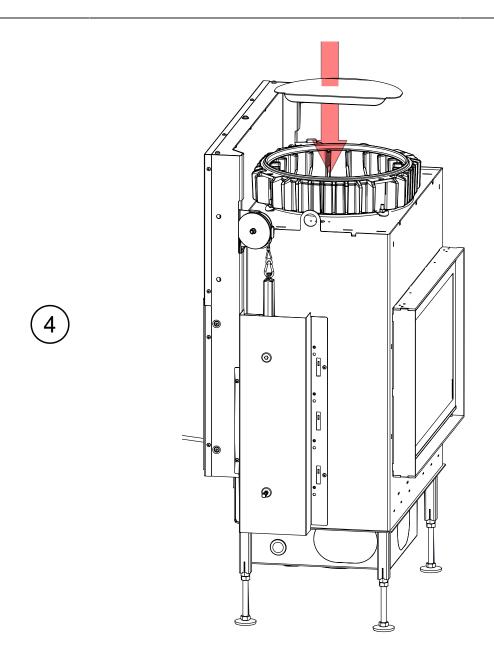




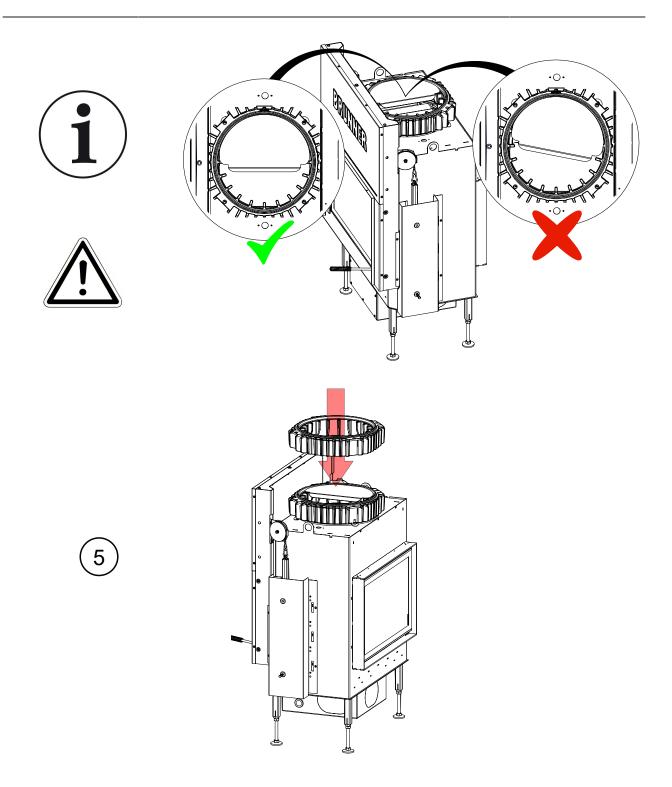


(3)

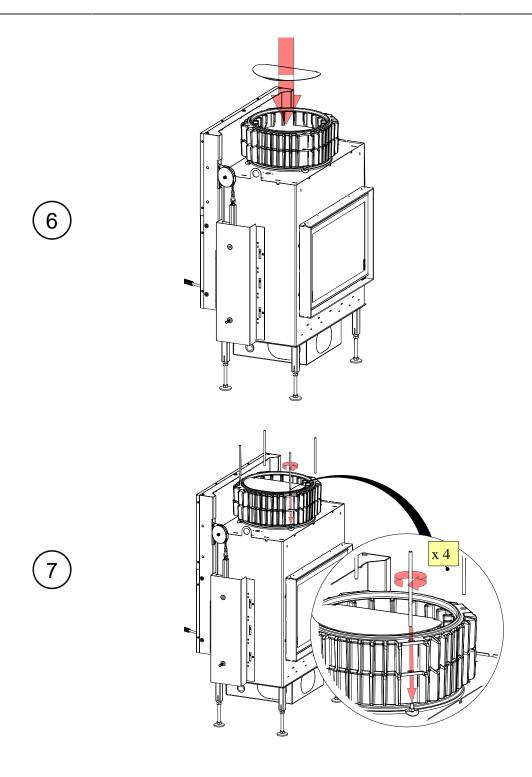




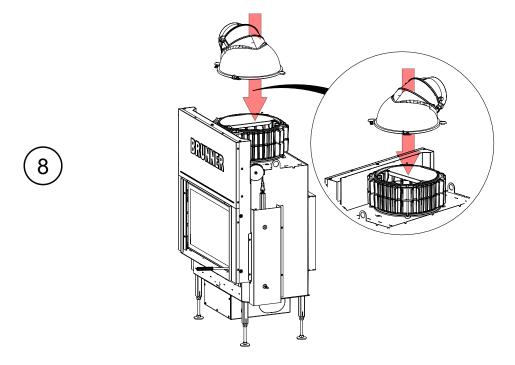






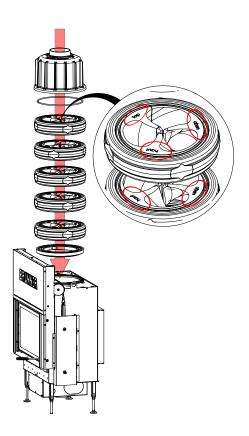






10.5 HEAT EXCHANGER - MAS

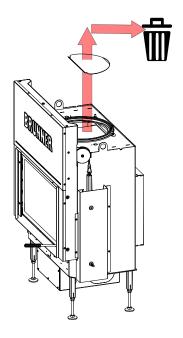
Summarised information:



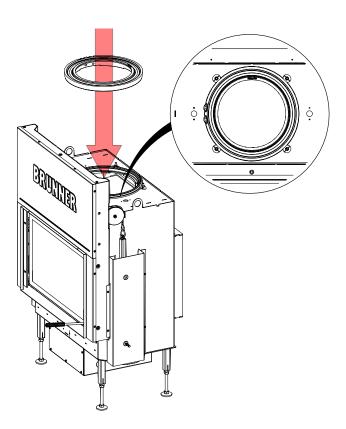




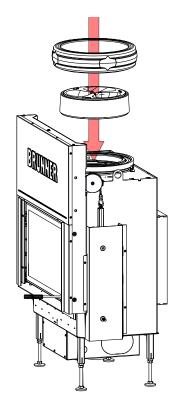






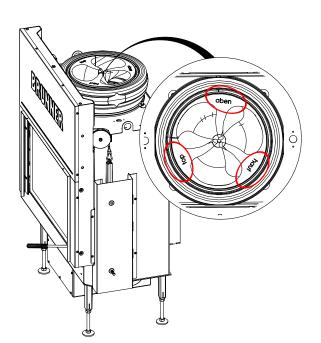




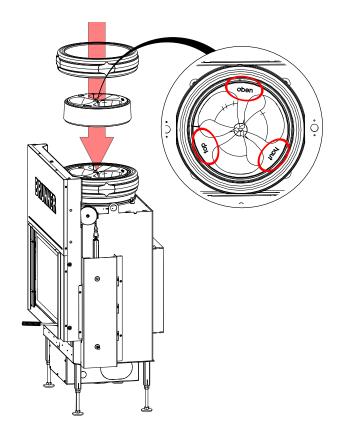






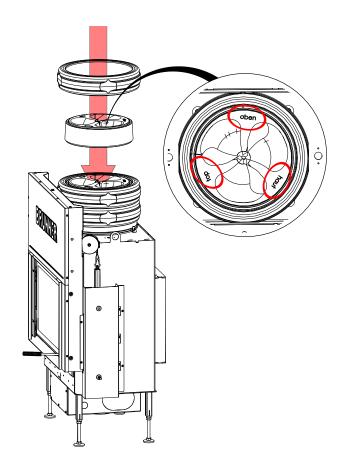






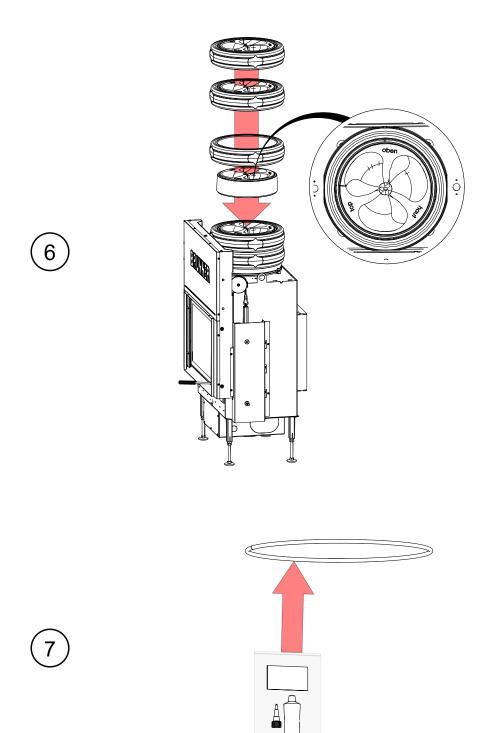
(4)



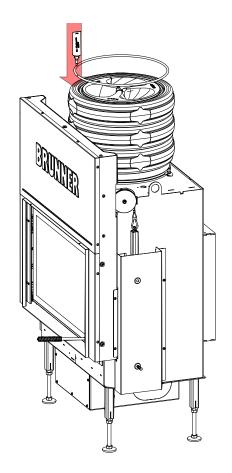


(5)



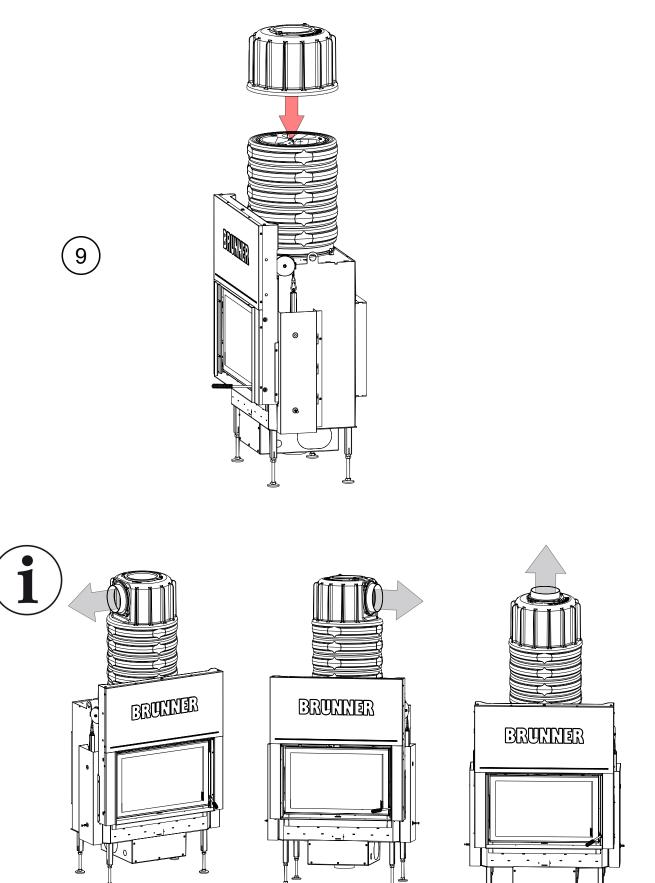






(8)



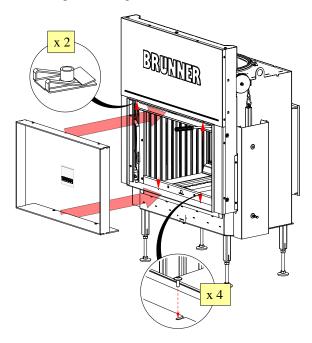




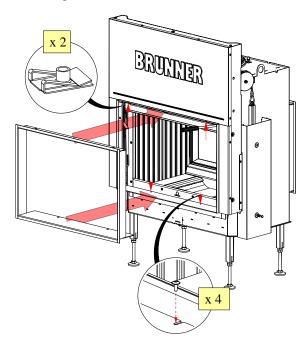
11 FRAME VARIANTS

Summarised information:

Mounting: mounting frame



Mounting: door frame





INFO

The installation of the add-on and blind frame is identical, regardless of which opening of the tunnel they are assembled.

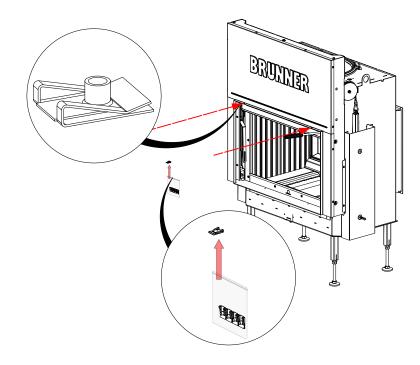
(Frame variants: see also chapter "Delivery contents")

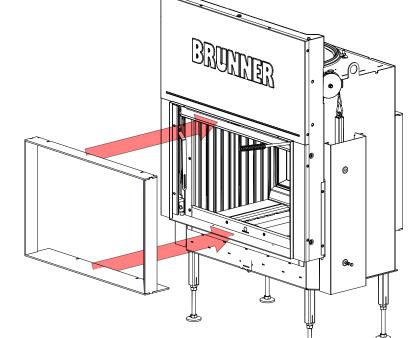


Mounting frame





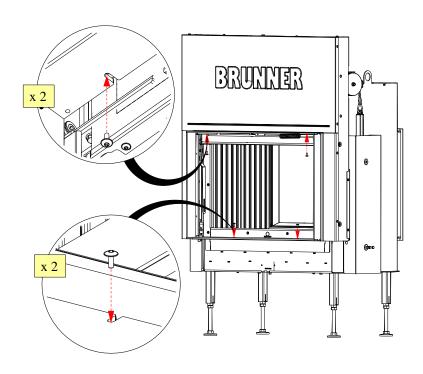








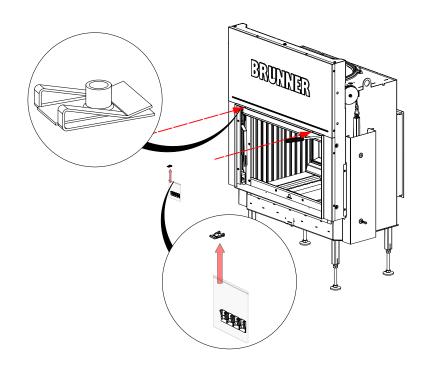




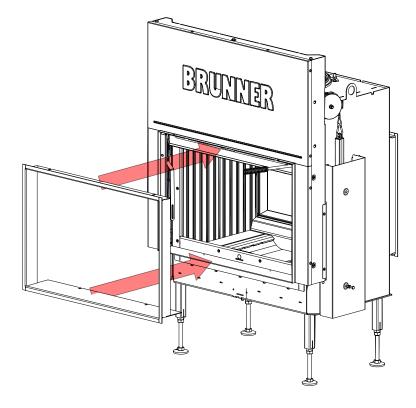
Door frame

Workflow:

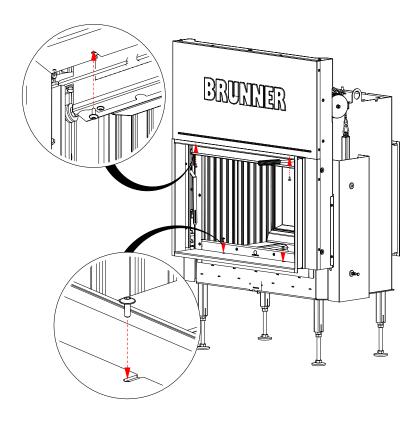








(2)



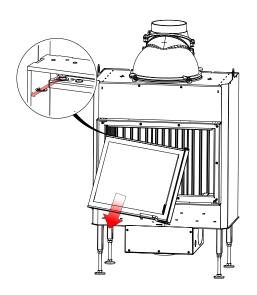
3

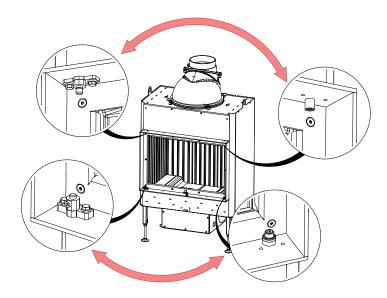


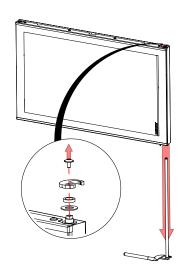
12 CONVERSIONS, SETTINGS

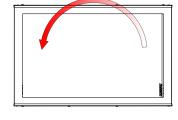
12.1 CHANGE OF THE DOOR STOP

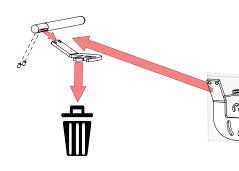
Summarised information:



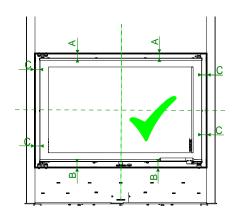


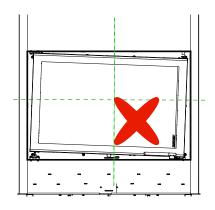












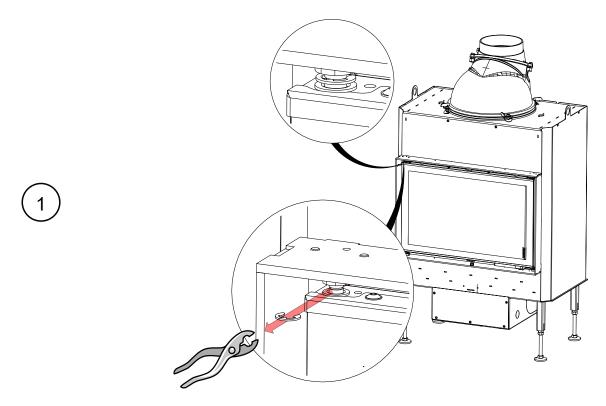


Adjust door !!

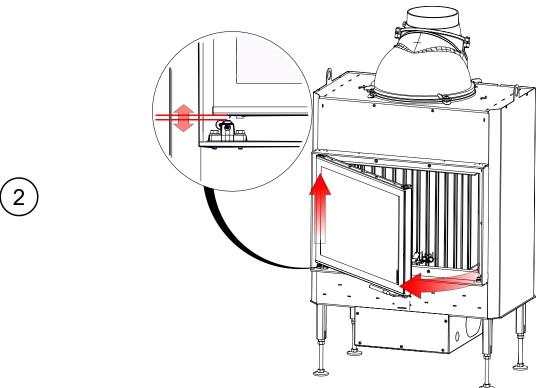
The door must be aligned vertically and horizontally. When the door is closed, the sealing cord of the door must be tight to the body.

Additional info: https://www.brunner.de/de/

Workflow:

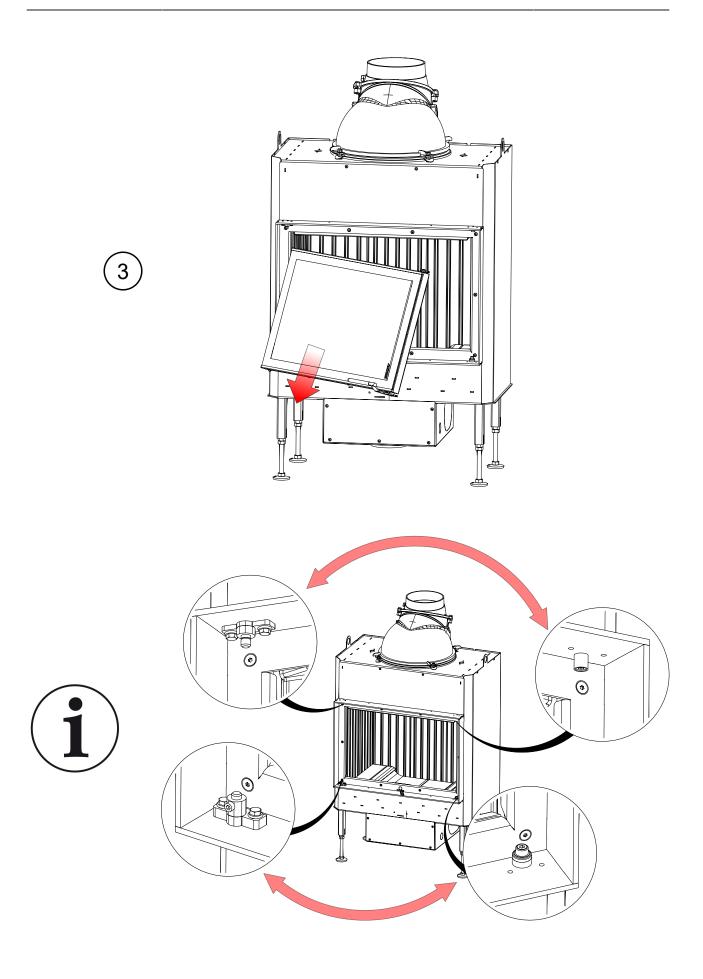




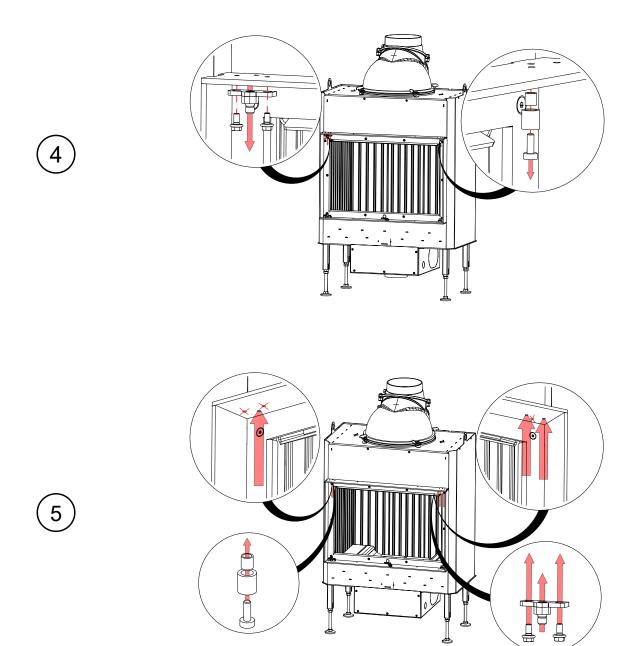




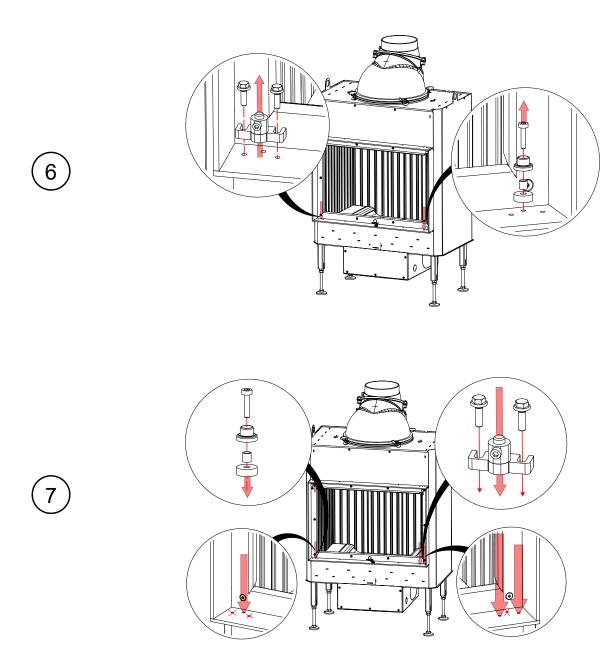






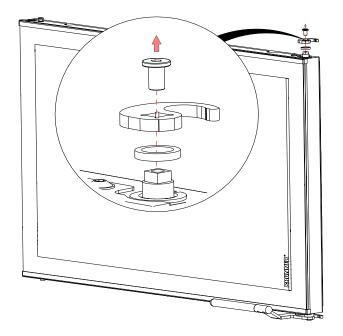




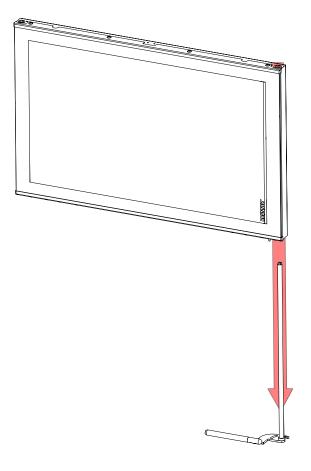




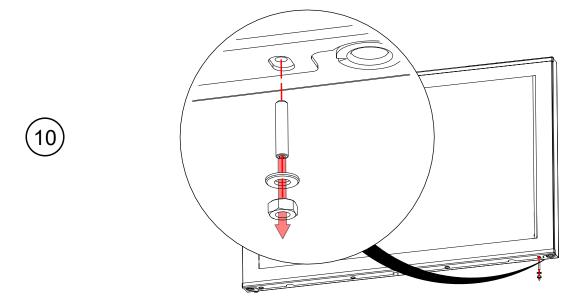




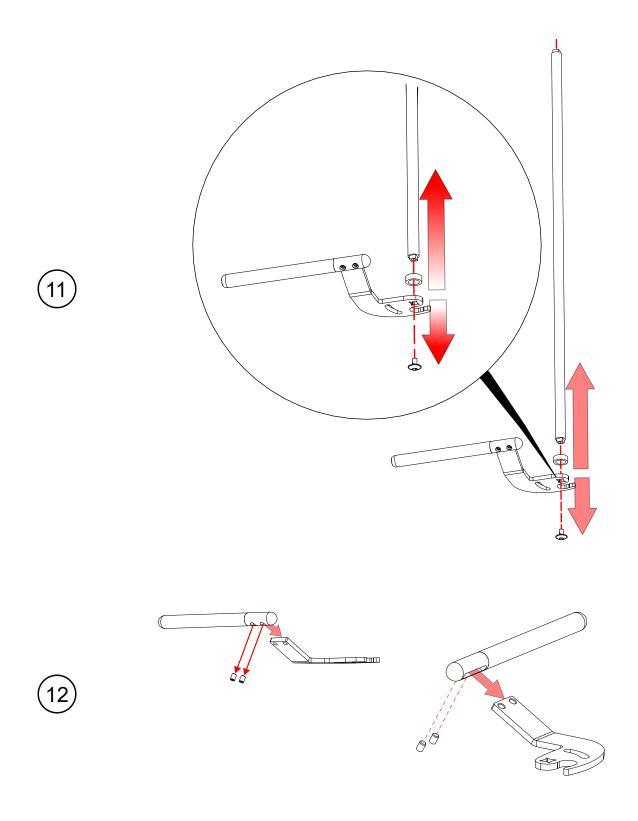




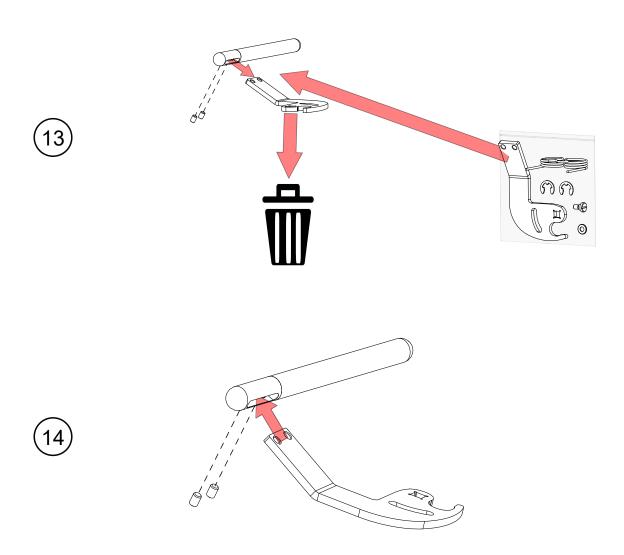




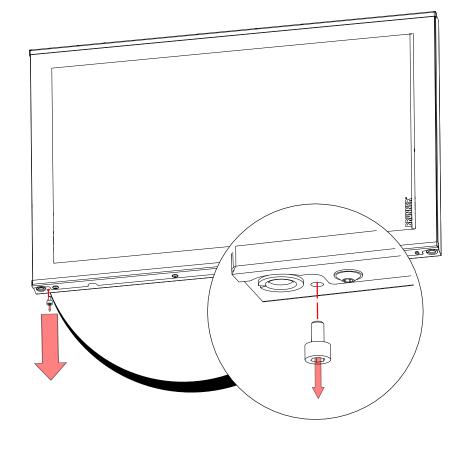


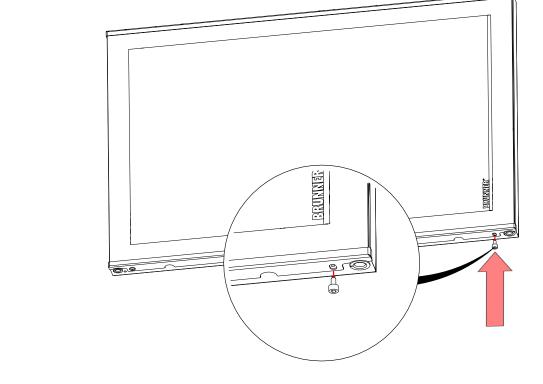






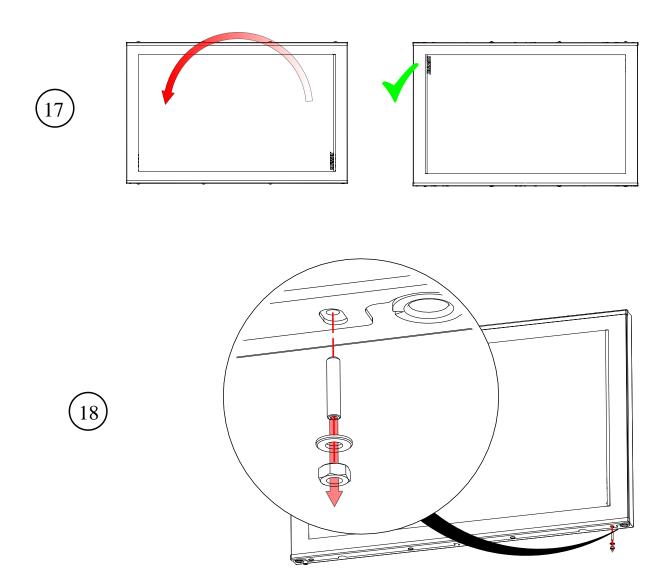






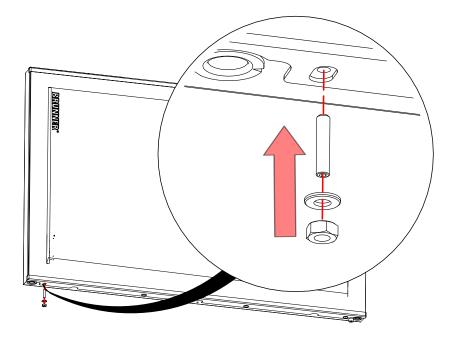




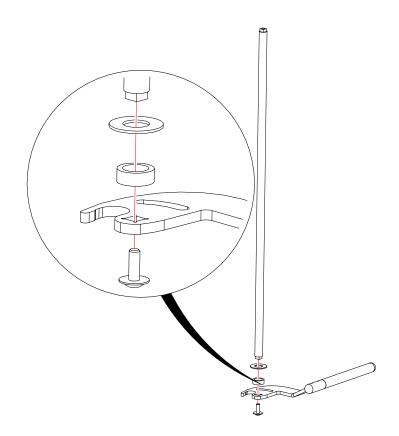




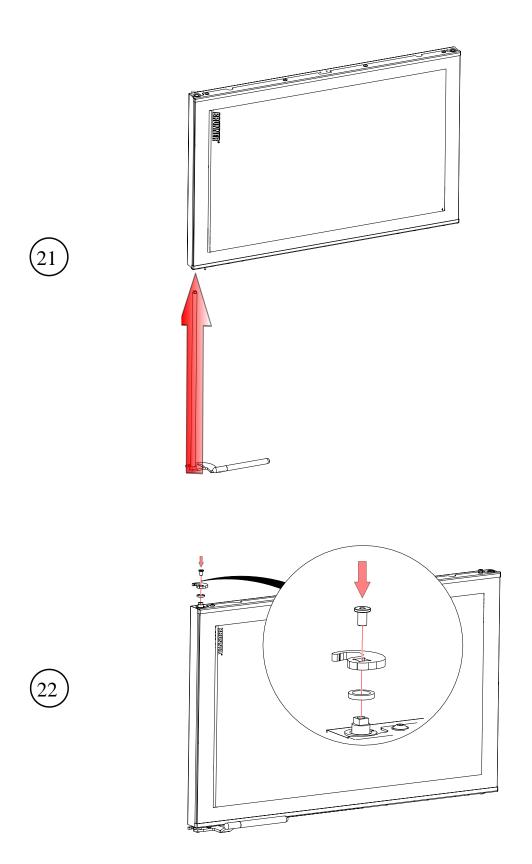




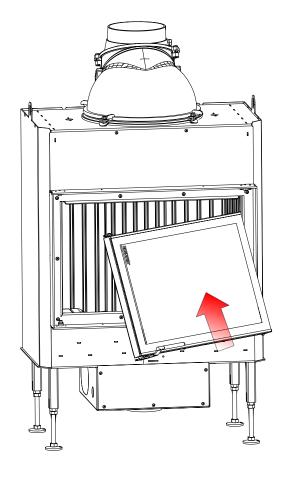




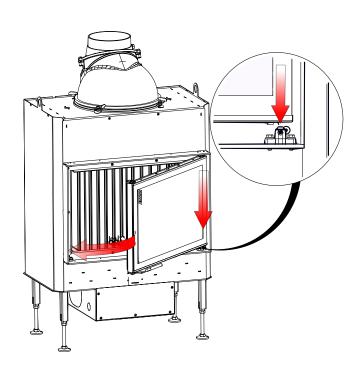








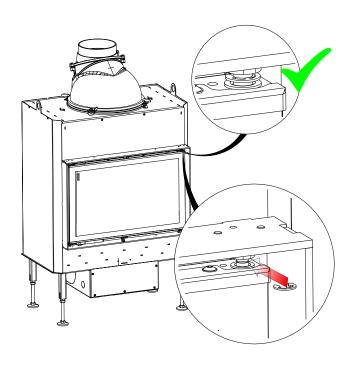
(23)

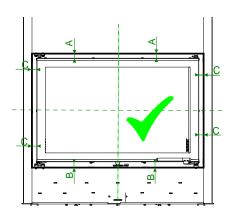


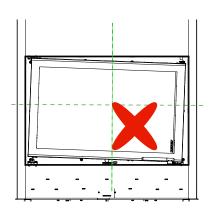
(24)











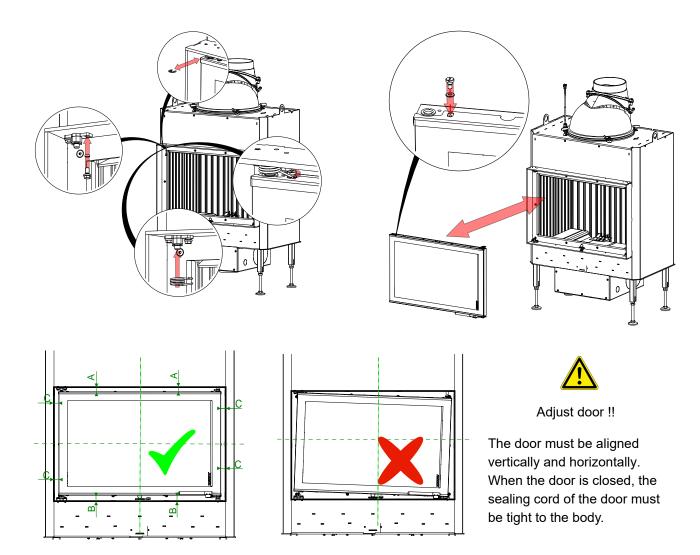


Adjust door !!

The door must be aligned vertically and horizontally. When the door is closed, the sealing cord of the door must be tight to the body.



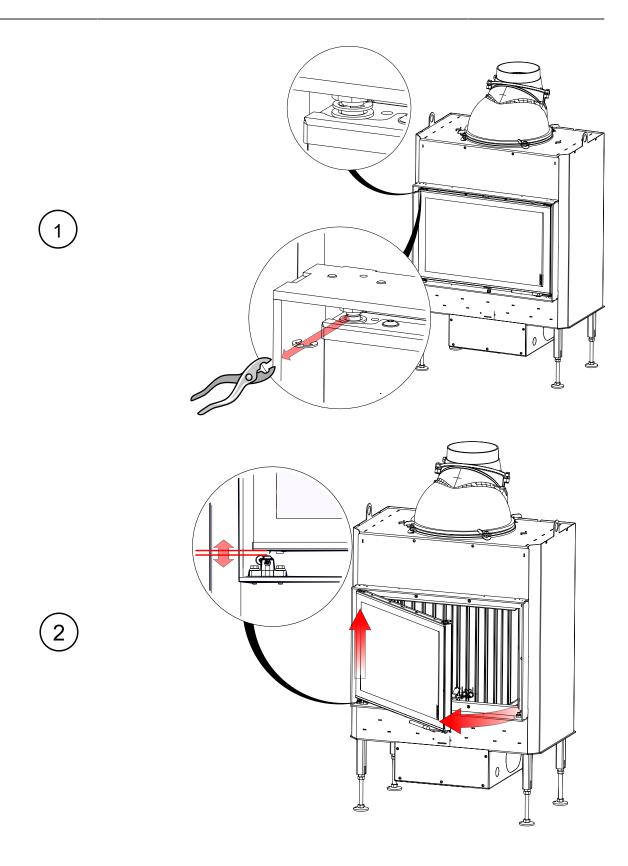
12.2 ADJUSTING OF SELF-CLOSING DOOR



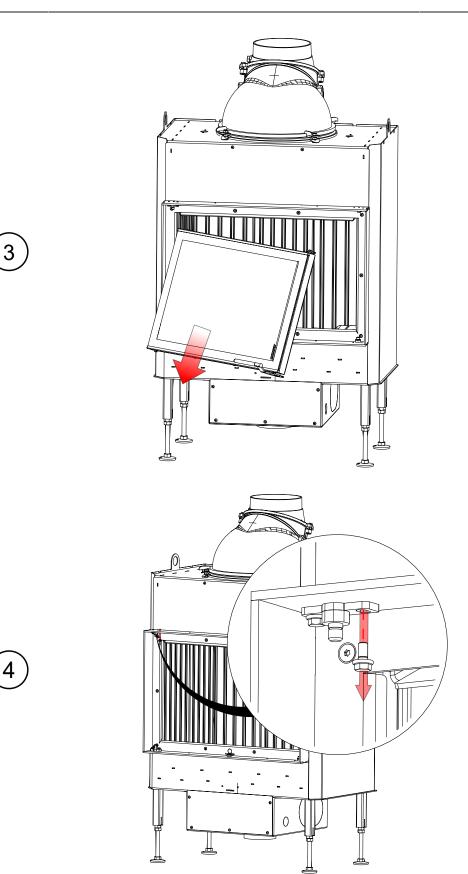
Version: BKH with side-opening door

-> without self-closing

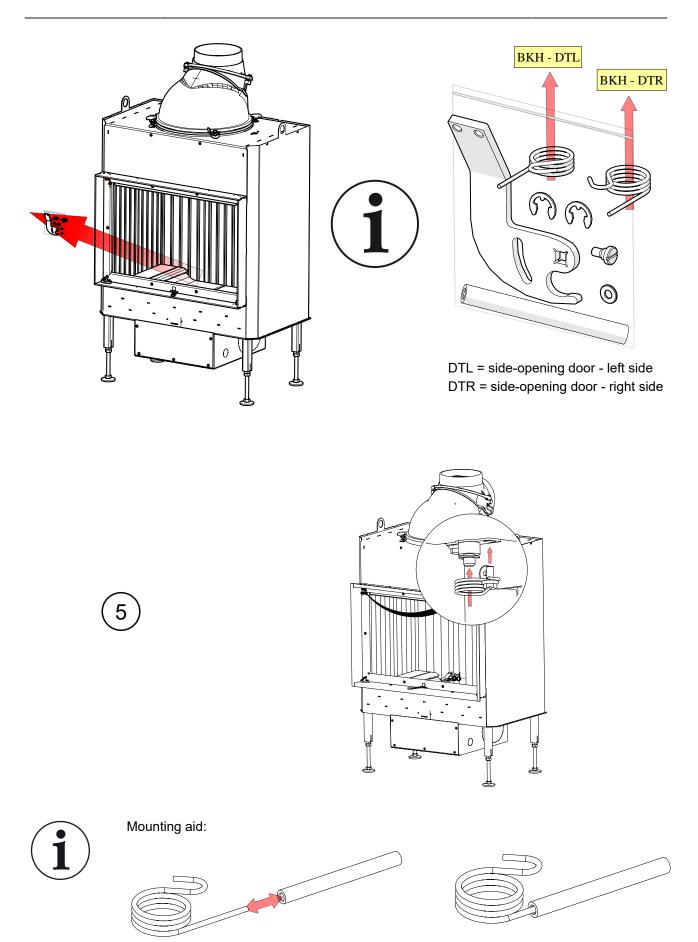




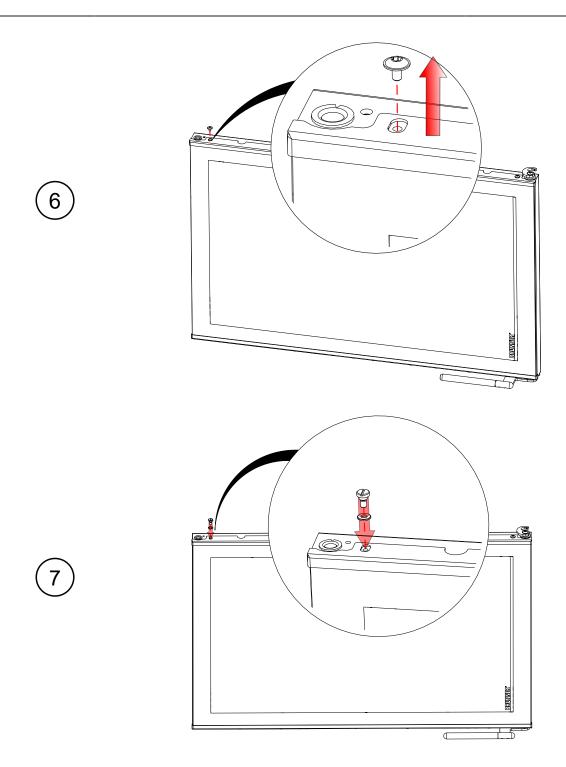




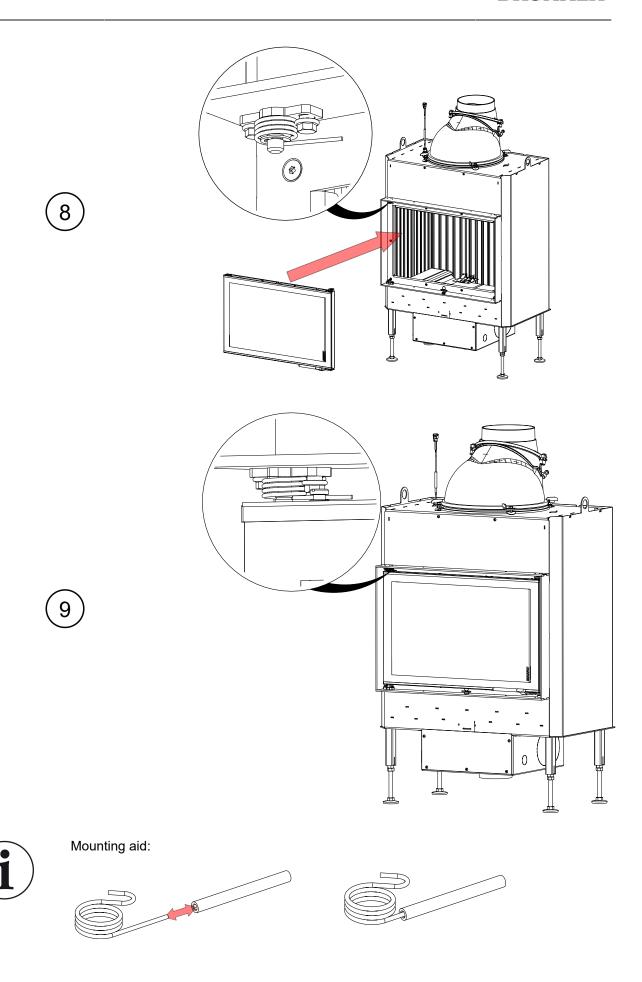




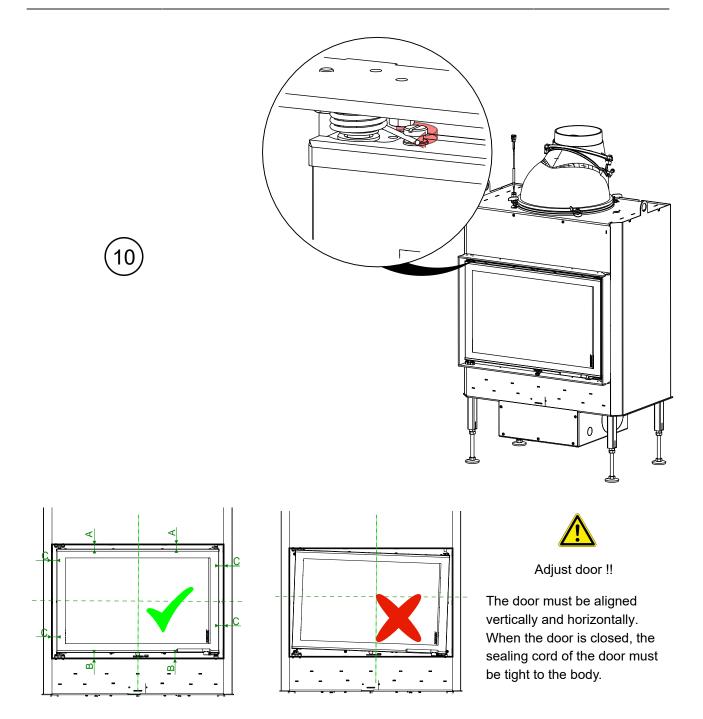










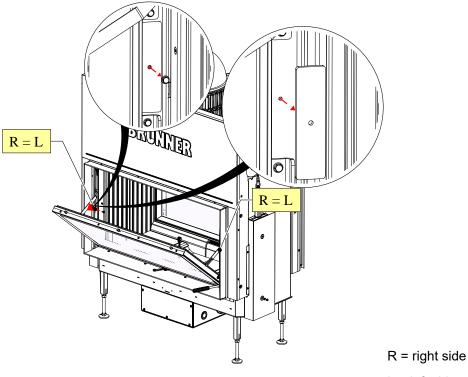


Version : BKH with lifting door

-> Self-closing is active in the delivery state..

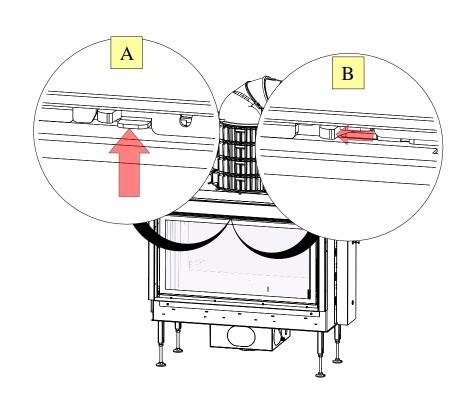


12.3 MODIFICATION - LIFTING DOOR: "NON SELF CLOSING"



Im. 6: Summarised information

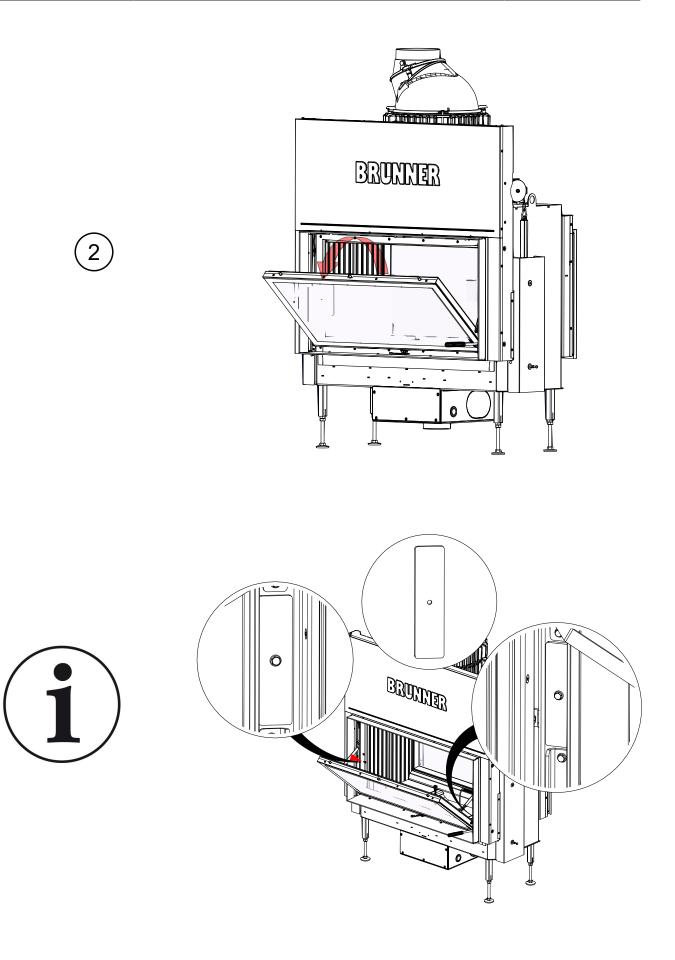
L = left side



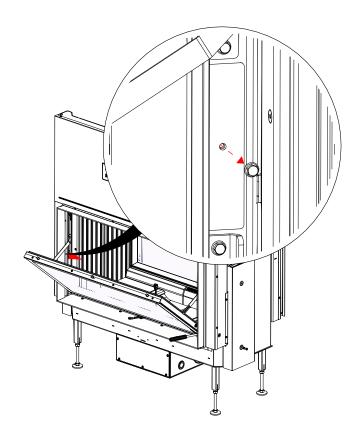
Workflow:

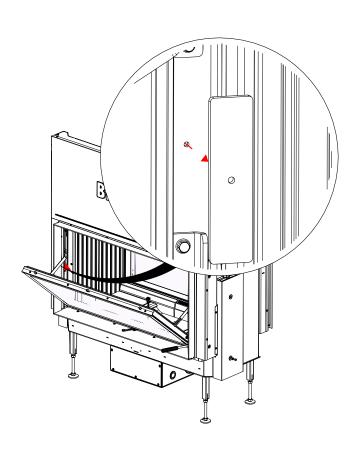












4



12.4 RETROFITTING EAS/EOS

Retrofitting an EAS or EOS is possible for BKH appliances in the 5.0 series. If retrofitting is desired, this must be specified when ordering. A few preparatory measures must be taken for retrofitting EAS/EOS, which are listed below.

Preparatory measures	Remark
Pull-in cable for thermal sensor	Pre-assembled at the factory
Possible opening for thermal sensor installation and EAS installation from the front	Advantageous, but not absolutely necessary
Empty conduits for EAS. power supply or EOS control unit	
Empty conduits between flush-mounted box for EAS (with and without display) or EOS control unit and appliance	
Empty conduits between the flush-mounted boxes control unit and display	for EOS
Control option	Provide relay A4



13 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.

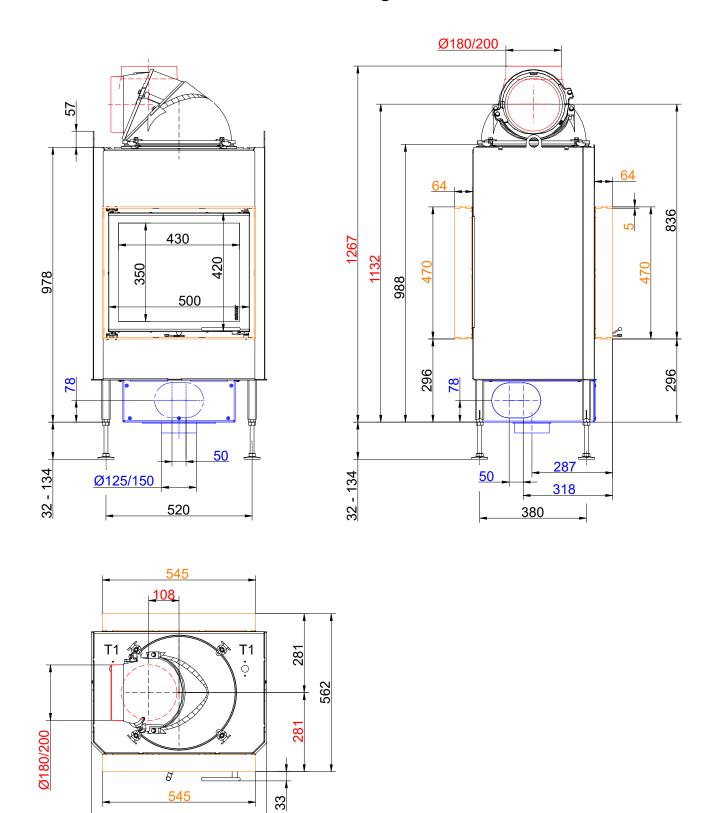
Used catalytic converters are suitable for re-use. Even if they are broken or damaged, they are suitable for recycling.

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

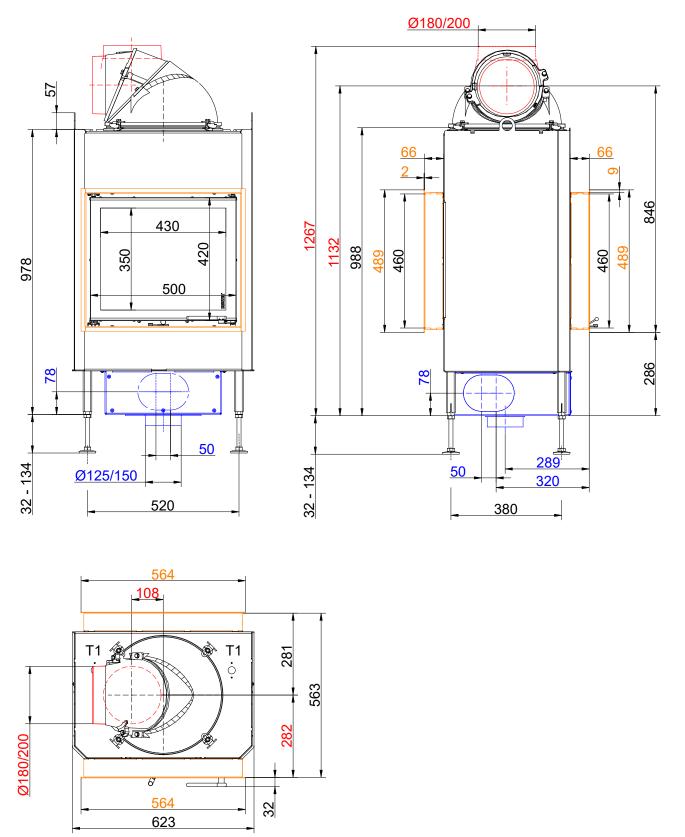
Please bring the used cacatalytic converter to a recycling center.

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

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 \dots side opening/side opening with mounting bracket and cast iron dome

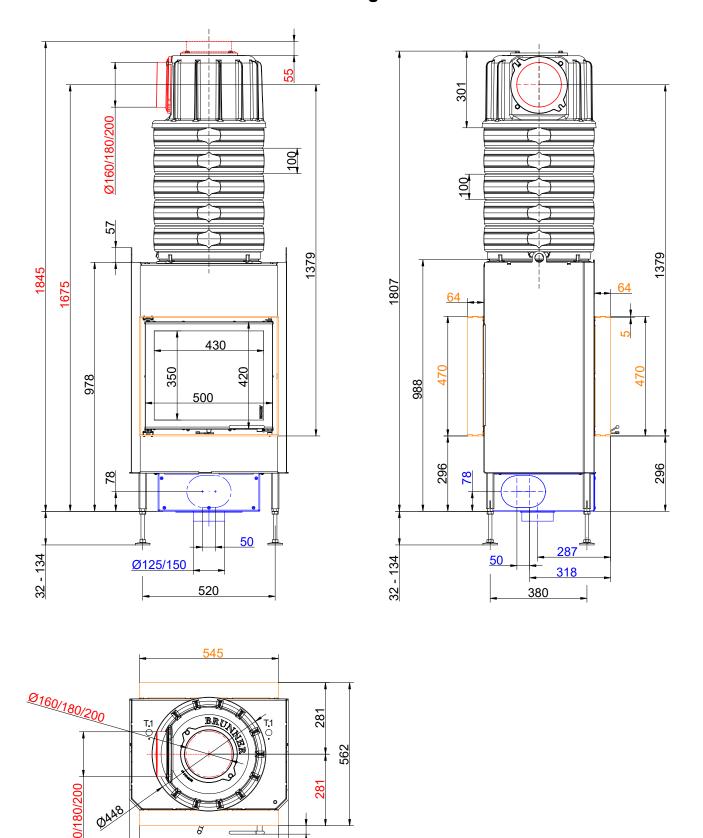


... side opening/side opening with door frame and cast iron dome

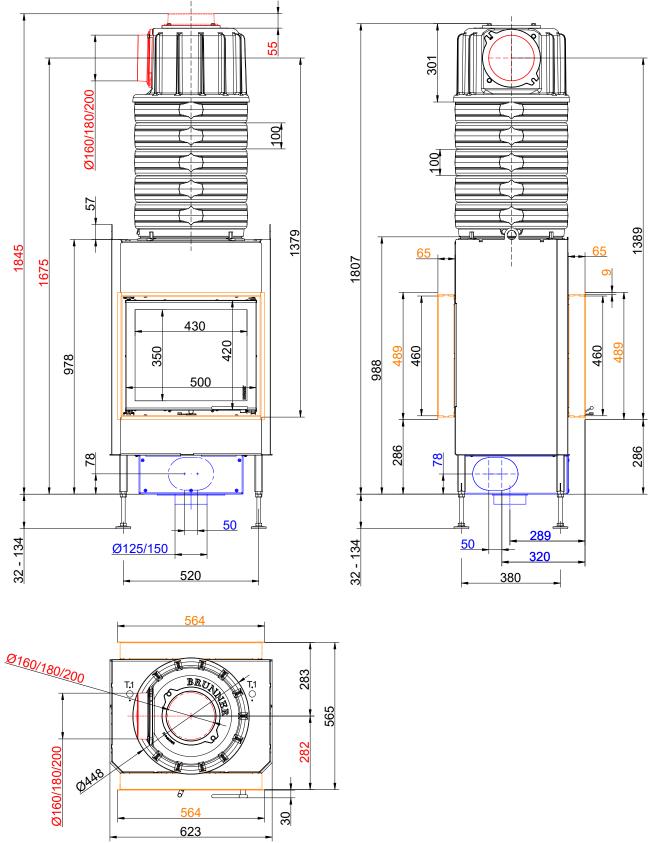
545

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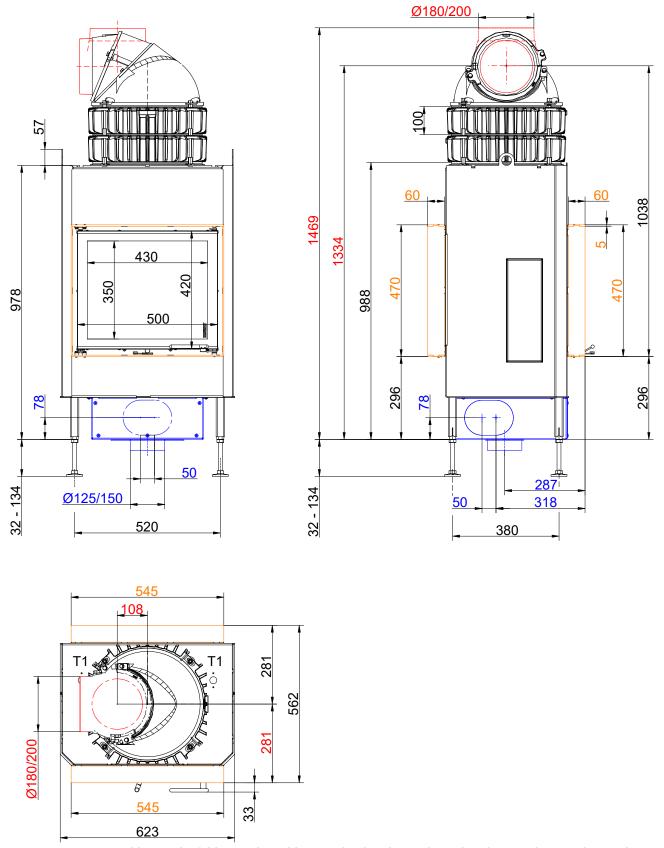
33



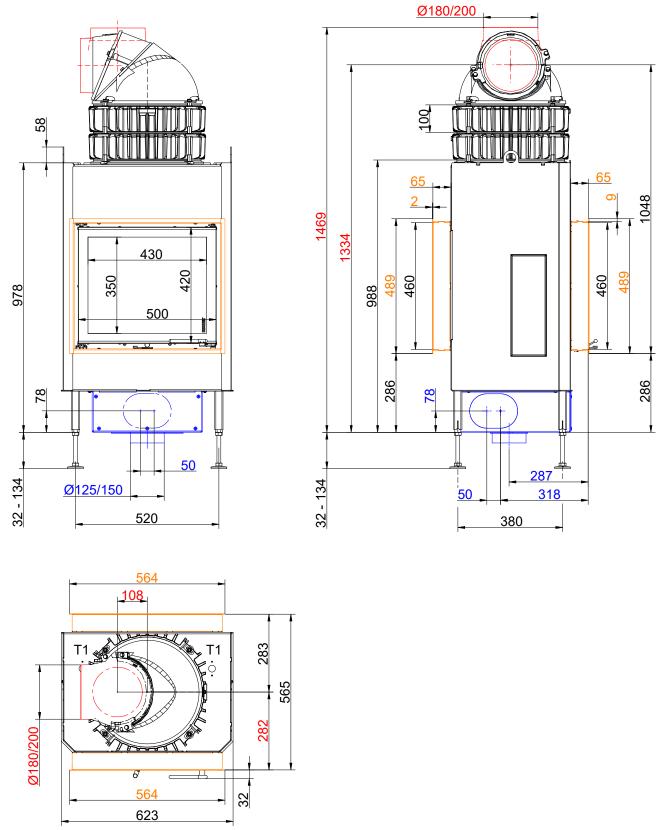
... side opening/side opening with mounting bracket and MAS



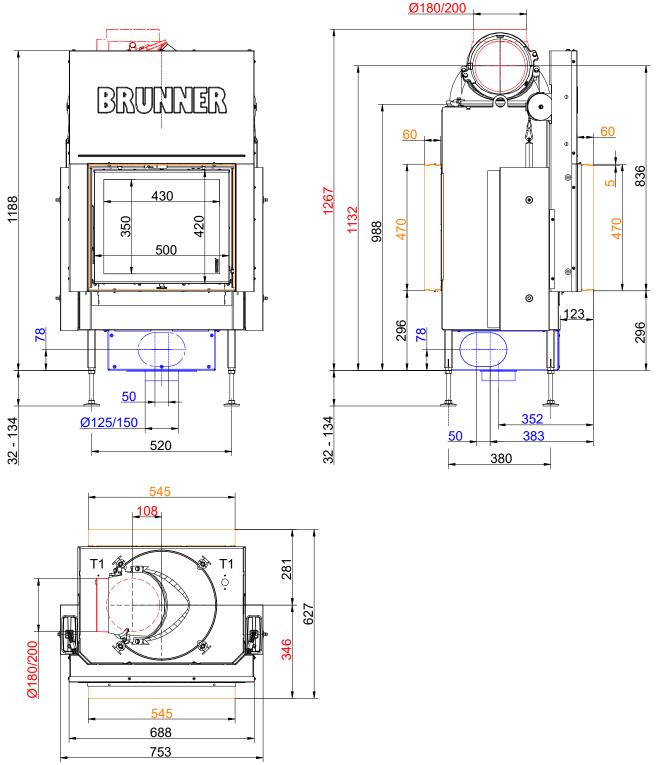
... side opening/side opening with door frame and MAS



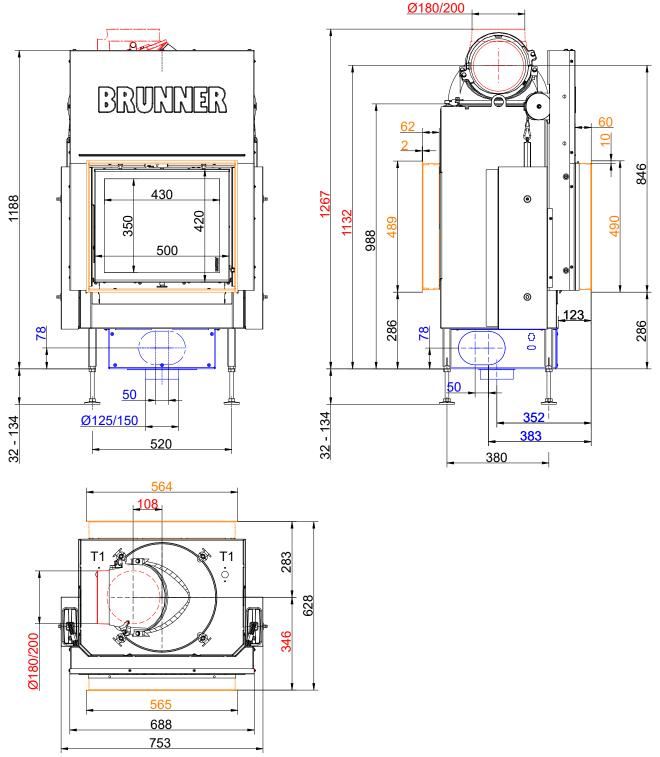
... side opening/side opening with mounting bracket and cast iron heat exchanger rings + dome



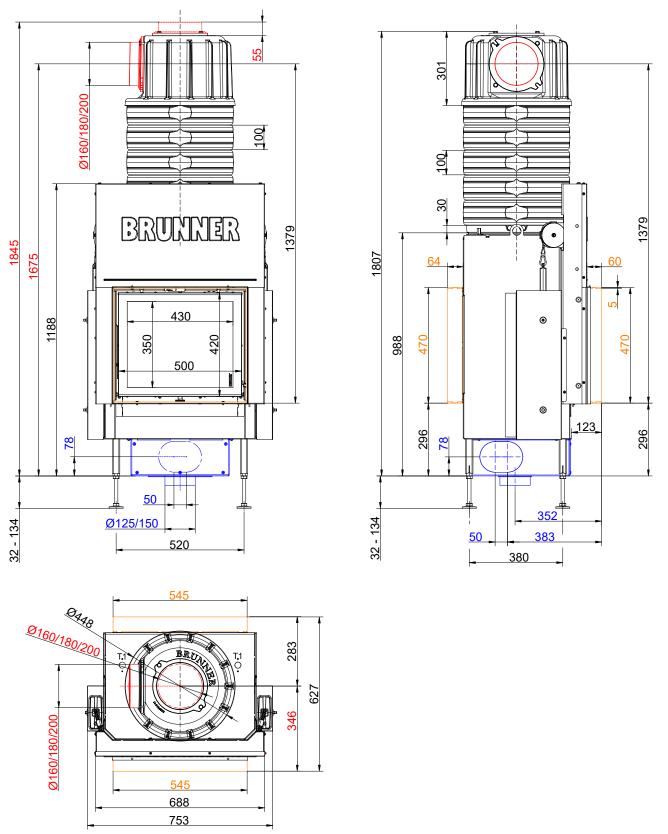
... side opening/side opening with door frame and cast iron heat exchanger rings + dome



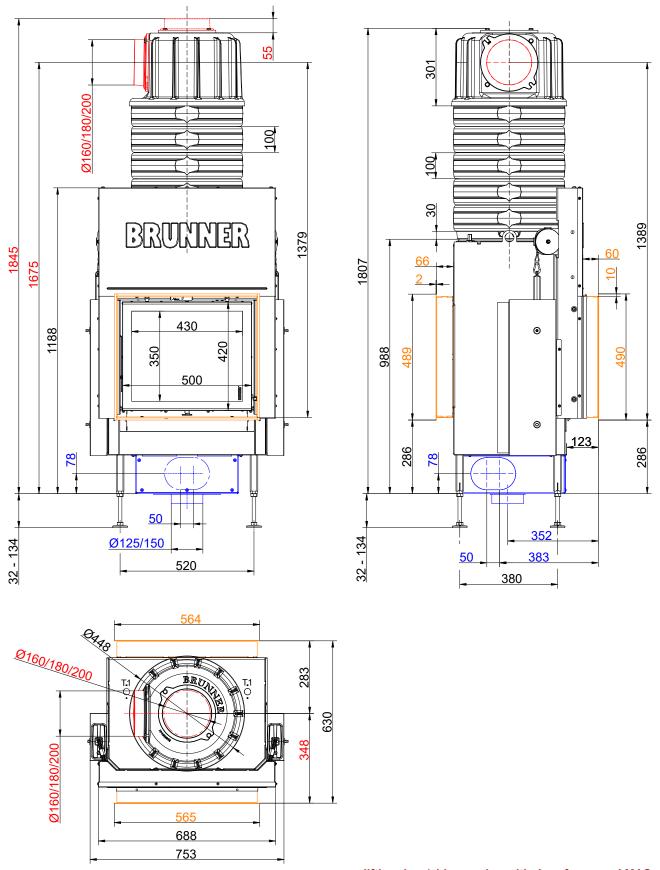
... lifting door/side opening with mounting frame/mounting bracket and cast iron dome



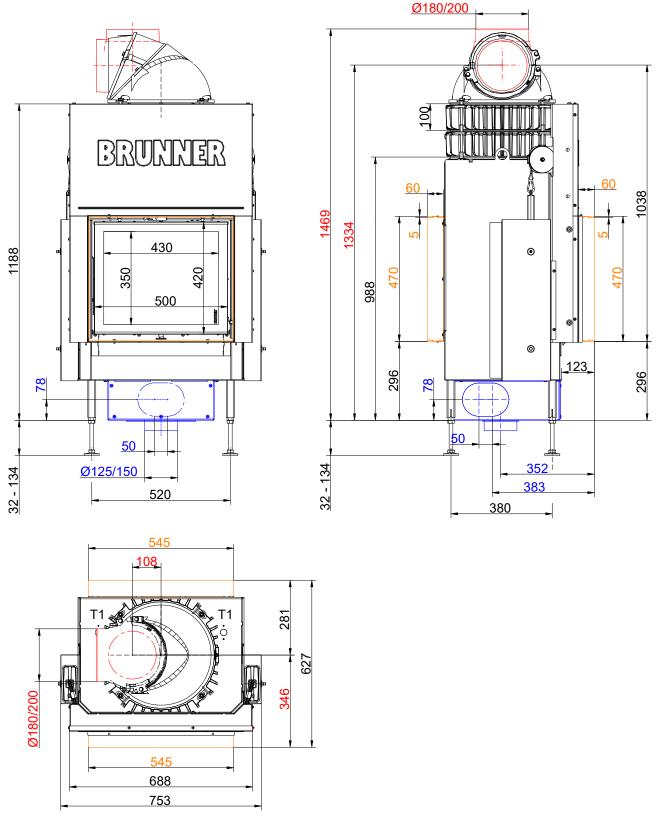
... lifting door/side opening with door frame and cast iron dome



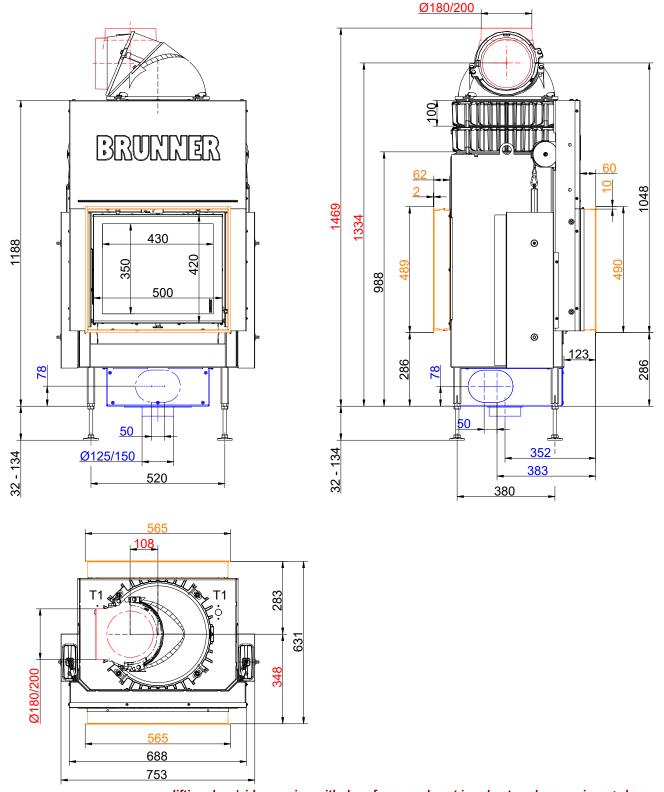
... lifting door/side opening with mounting frame/mounting bracket and MAS



... lifting door/side opening with door frame and MAS



... lifting door/side opening with mounting frame/mounting bracket and cast iron heat exchanger rings + dome



... lifting door/side opening with door frame and cast iron heat exchanger rings + dome

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.

Planning and installation - BKH Tunnel 42-50 green

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	8	-
Fire wood volume	kg/h	2.4	3.5
Combustion performance	kW	10	14
Flue gas mass flow	g/s	10	16
Flue gas temperature after:			
Cast iron dome	°C	220	350
2 x cast iron heat exchanger rings + dome	°C	210	260
5 x accumulation rings incl. MAS casted cover 3)	°C	-	260
2,0 m ceramic accumulator 4)	°C	-	180
1,4 m accumulation stones (MSS) 4)	°C	-	180
Necessary supply pressure	Pa	12	12
Fuel amount	kg	2.0	4.0
Combustion air consumption	m³/h	30	43
Combustion air connection Ø	mm	125	125
Heat distribution			
nsert / reheating surface	%	20 / 30	20 / 30
glass ceramic / glass ceramic coated (GKB)	%	50 / 40	50 / 40
Cross-section of gratings 5)	i -		1
exhaust warm air	cm ²	600	600
Recirculation air	cm ²	600	600
Minimal oven surface for closed construction type			
Heat dissipating surface	m ²	3.5	3.5
Minimal distances of the fireplace	1		
Heat protection panel for cladding, insulation layer	cm	3	3
o cladding, insulation layer	cm	5	5
o the floor (non-combustible)	cm	3	3
,	-		
Minimum insulation thicknesses of substitute insul with heat protection panel for mounting wall (non-	cm	6 / 8	6 / 8
combustible) 7)	OIII	070	070
with heat protection panel for mounting wall (com- pustible) ⁷⁾	cm	12 / 13 + 10	12 / 13 + 10
o mounting wall (non-combustible)	cm	8 / 10	8 / 10
o mounting wall (combustible)	cm	18 / 20 + 10	18 / 20 + 10
o the ceiling (non-combustible)	cm	8 / 10	8 / 10
o the ceiling (combustible)	cm	22 / 25 + 10	22 / 25 + 10
o the floor (non-combustible)	cm	0/0	0/0
Minimum distances in front of the combustion char	nber, glass	ceramic / glass cerami	c coated (GKB)
or combustible parts	cm	≥ 120 / ≥ 80	≥ 120 / ≥ 80
	,		
Fireplace insert + combustion chamber inner lining chamotte/cast iron	kg	114 (DT-DT) 155 (ST-DT) + 57 / 67	
Meets requirement/limit values for:	,		
EU / Germany		Ecodesign / 1. BImSchV (Stufe 2)	

- 1) Indications to "Rated power" determined with 2 heat exchanger rings made of cast iron and Ø180 dome.
- 2) Indications to "Storage operation" for the manual execution of the reheating surface (guide values).
- 3) Damper flap recommended
- 4) Standard value or calculated functional proof required.
- 5) Air cross-sections if the specified nominal heat output is desired as the heat output.
- 6) Fire safety: values determined with air cross-sections evaluated by safety testing; stove cladding is heat emitting. Insulation material data with calcium silicate (Promasil 950KS)/10 cm wall lining + reference insulation material (mineral wool according to AGI Q 132). The specifications for walls/ceilings that do not require protection and are non-combustible correspond to the specifications of TROL (Germany).

Planning and installation - BKH Tunnel 42-50 green

7) Heat protection panels (accessories) only available for selected fireplace inserts. For assembly and design of the heat protection panel see assembly instructions. Distance between mounted heat protection panel and fireplace insert: rear wall 2 cm, side wall 3 cm.

Stand: 2024-03-18



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

Supplier's name or trademark Ulrich Brunner GmbH

Model identifier: BKH 5.0 Tunnel 42-50 green DT/DT

Energy efficiency class:

Direct heat output:

Indirect heat output:

N.A. kW

Energy efficiency index:

Fuel energy efficiency (at nominal heat output):

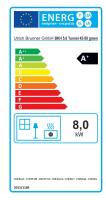
83,0 %

Fuel energy efficiency (at minimum load):

N.A. %

Special precautions: see supplied product documenta-

tion



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

Supplier's name or trademark Ulrich Brunner GmbH

Model identifier: BKH 5.0 Tunnel 42-50 green ST/DT

Energy efficiency class:

Direct heat output:

Indirect heat output:

Energy efficiency index:

Fuel energy efficiency (at nominal heat output):

83,0 %

Fuel energy efficiency (at minimum load):

N.A. %

Special precautions: see supplied product documenta-

tion



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