Installation guide

Corner fireplace waterbearing 42/57/30

BRUNNER®

CONTENTS

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 installation may only be carried out by a registered specialist.

Fireplaces equipped with a water boiler must be pressure-tested after hydraulic connection to the heating system. Masonry work may follow only after this pressure test. Ulrich Brunner GmbH does not cover any costs incurred by necessary dismantling of masonry for rework at water boiler installation or replacement of the boiler.

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.

Fireplaces that meet the requirements of DIN EN 13240 or DIN EN 13229 and that can only be operated as intended with closed combustion chamber door or that have a self-closing firebox door are suitable for multiple occupancy.

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/Allgemein/Allgemeine_Hinweise_für_den_Aufbau_en.pdf)

2 DESCRIPTION

Fireplace inserts for hot water production are a combination of fireplace and a water-carrying tank construction tested to EN 13229.

The boiler design itself is correct to TRD 702 hotwater generators of the group II and are made of quality steel S235JR (St 37-2) or according to DIN 17100, the exchanger tubes manufactured according to DIN 1626/DIN 1629th All boiler constructions are available as a heat source for hot waterheating systems with permissible flow temperatures suitable and approved up to 100 ° C. The devices can be operated as a sole heating and in conjunction with other heat sources. This can be done in open systems to DIN 4751 Part 1 as well as in closed, thermostatically secure systems to DIN4751 part 2.

Avoid overheating the device! If the fireplace boiler is overheated, it can cause discoloration, especially in the variants with stainless steel diaphragm. These discolorations are no reason for reclamation.

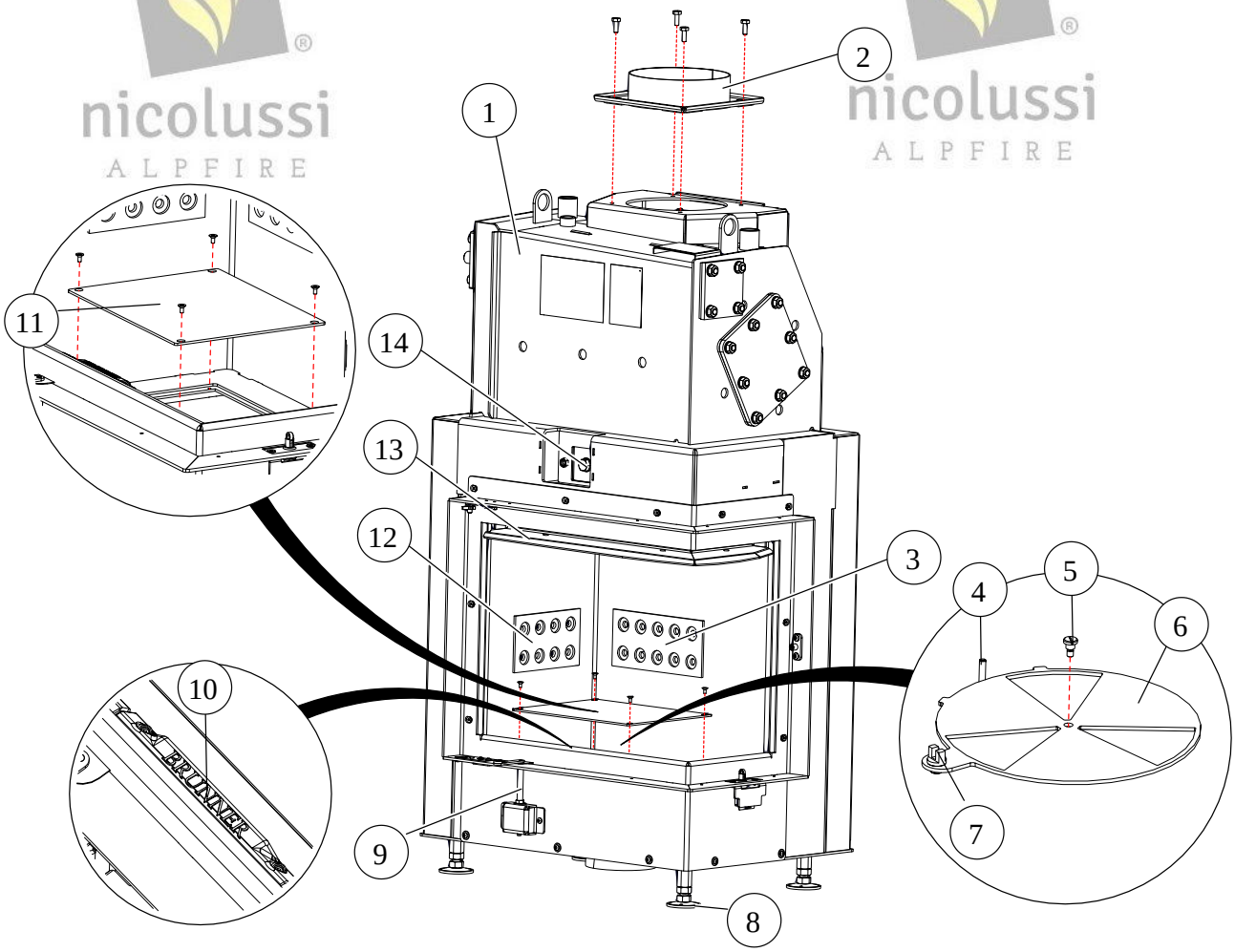
The fireplace-boiler has to be suppressed after the hydraulic connections to the heating system. A wall surrounding the device is possible only after this pressure test. Costs that arise due to the necessary removal of the surrounding wall of the boiler unit or for reworking or replacement of the boiler are not covered by Ulrich Brunner GmbH.

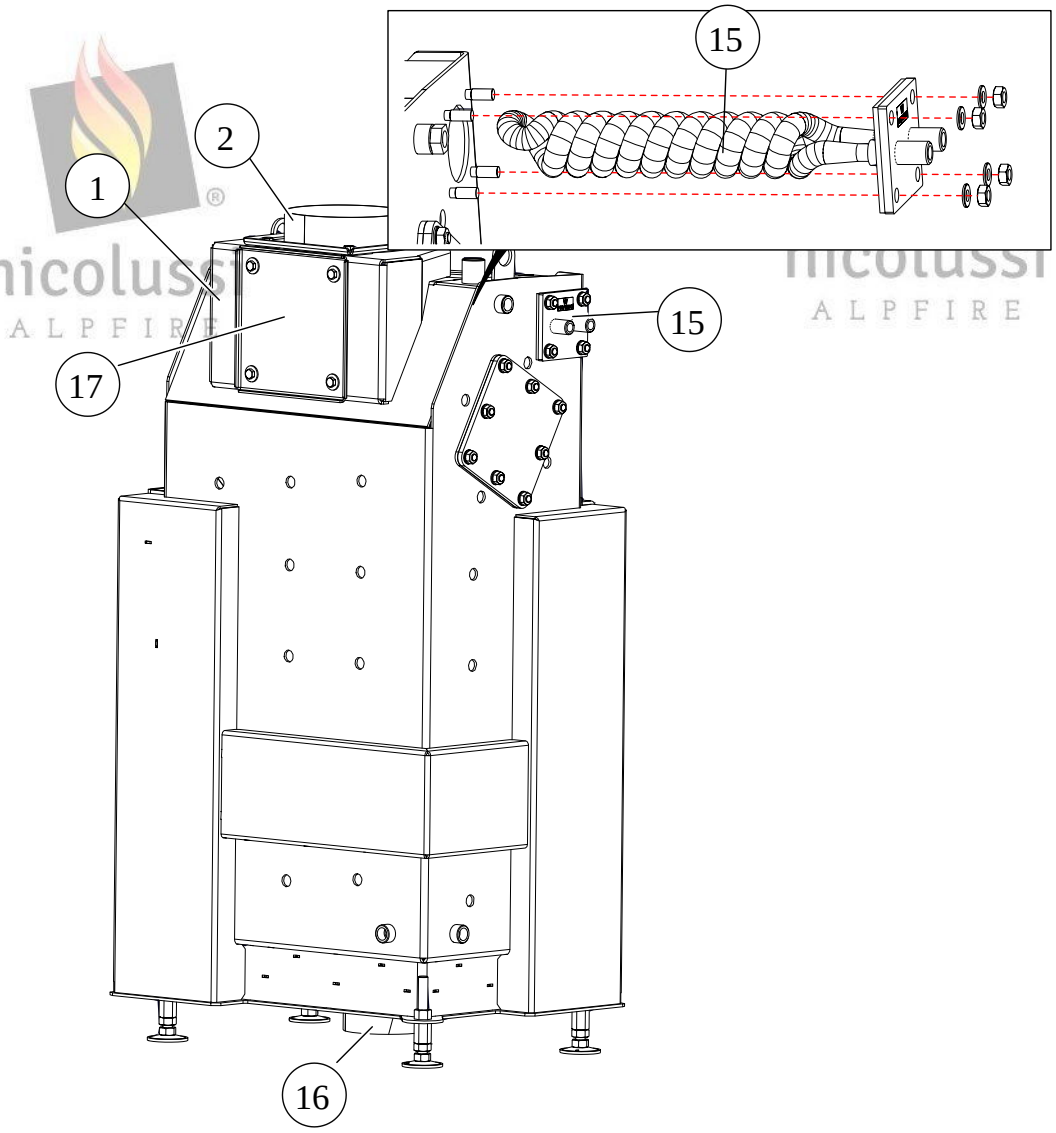
3 DELIVERY CONTENTS

The delivery consists of different packaging units depending on the configuration of the system.

4 DESCRIPTION OF PARTS

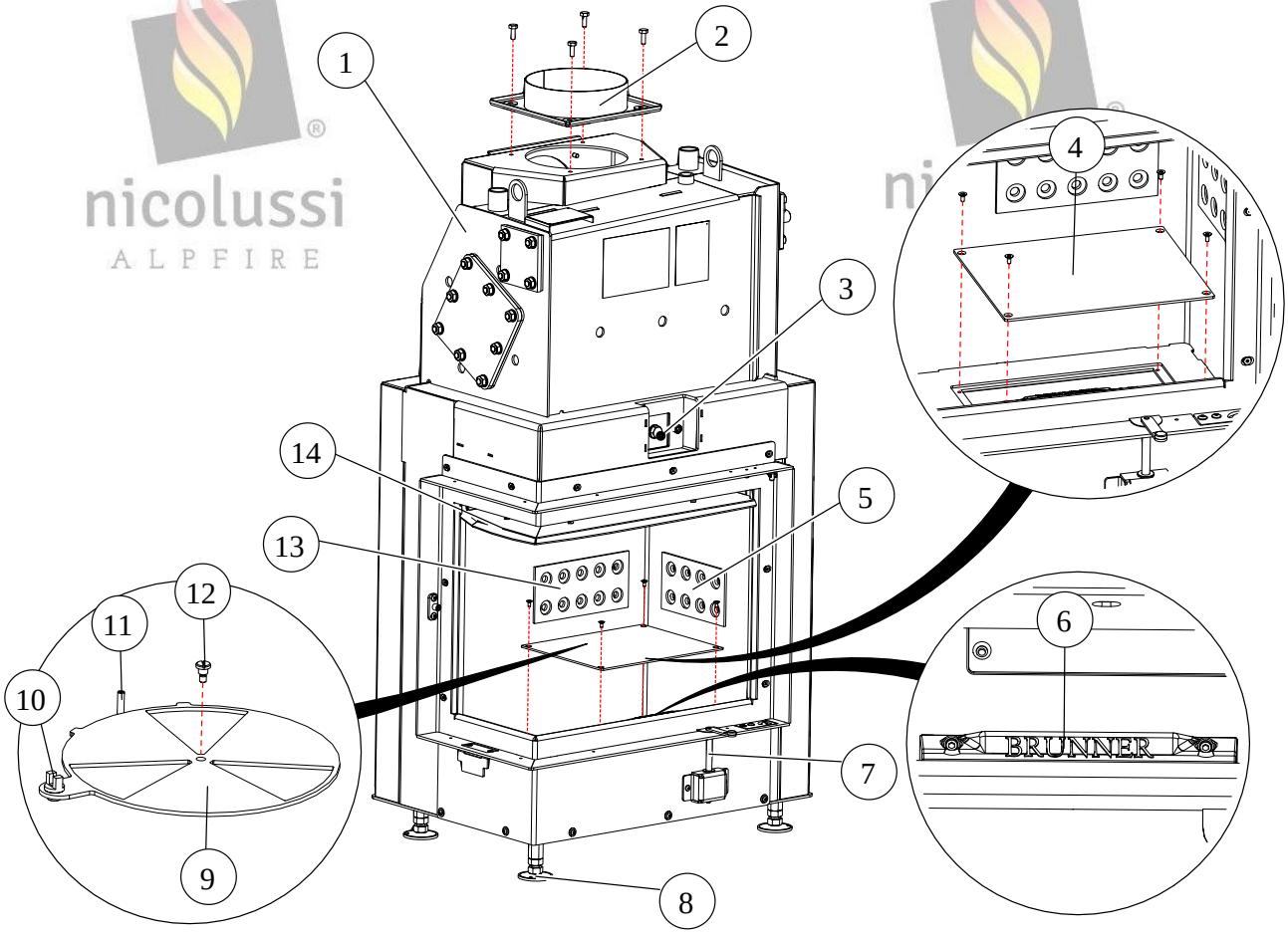
4.1 CORNER FIREPLACE WITH WATERBEARING BODY - RIGHT SIDE

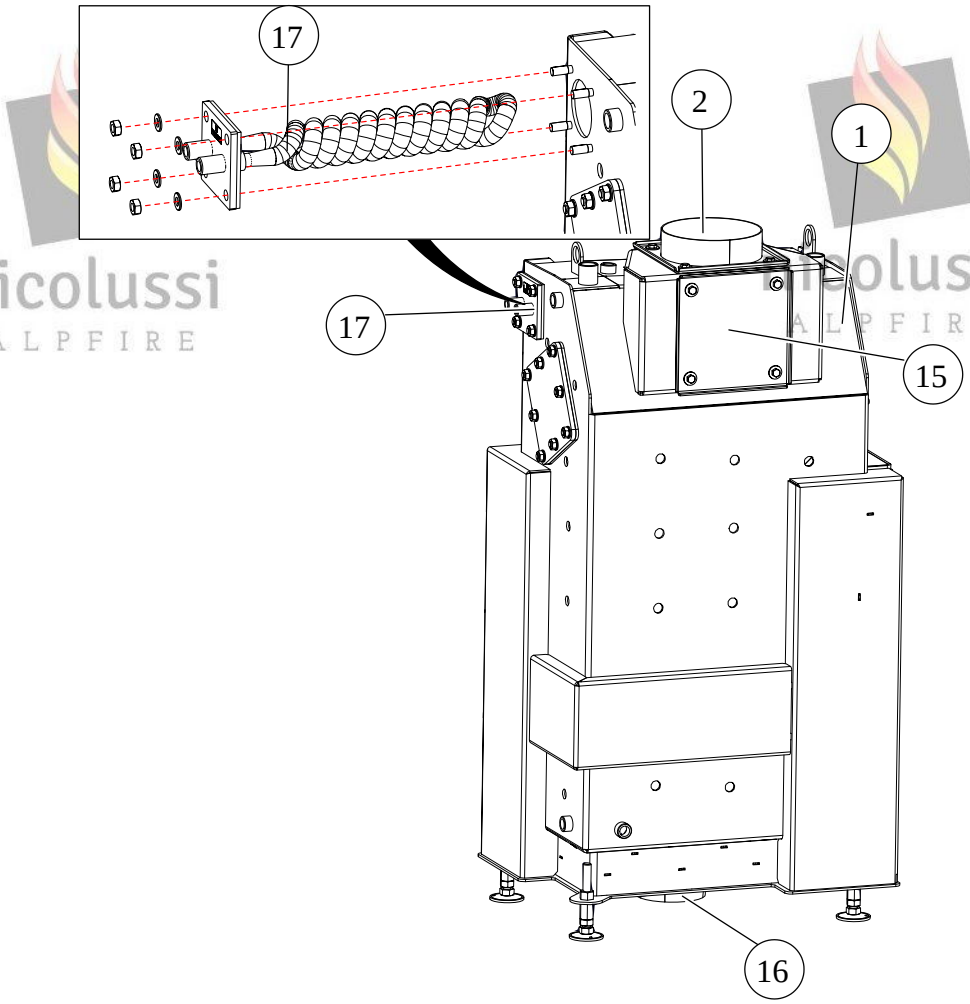




Pos.	Teilenr.	Bezeichnung	Stk.	Pos.	Teilenr.	Bezeichnung	Stk.
1	W049007	corner fireplace waterbearing body	1	10	I064071	BG Cast air diffuser Brunner	1
2	W048145	BG smoke gas outlet D180 complete assembly	1	11	W049104	Cover air box	1
3	W049105	Fiber mat	1	12	W049106	Fiber mat	1
4	800143	Socket headless screw M5x25	1	13	W049052	BG air directing panel - R	1
5	800016	Flat head screw M5x5	1	14	W048161	BG intake thermoelement complete	1
6	I056024	Supply air turnable	1	15	10666.1	BG safety heat exchanger	1
7	D003239	Intake air adjuster	1	16	02333	BG air connection nozzle complete assembly	1
8	I007325	BG adjustable foot M14x133	4	17	W048148	BG smoke pipe cover, complete	1
9	W039040	BG air adjuster (in manual mode)	1				

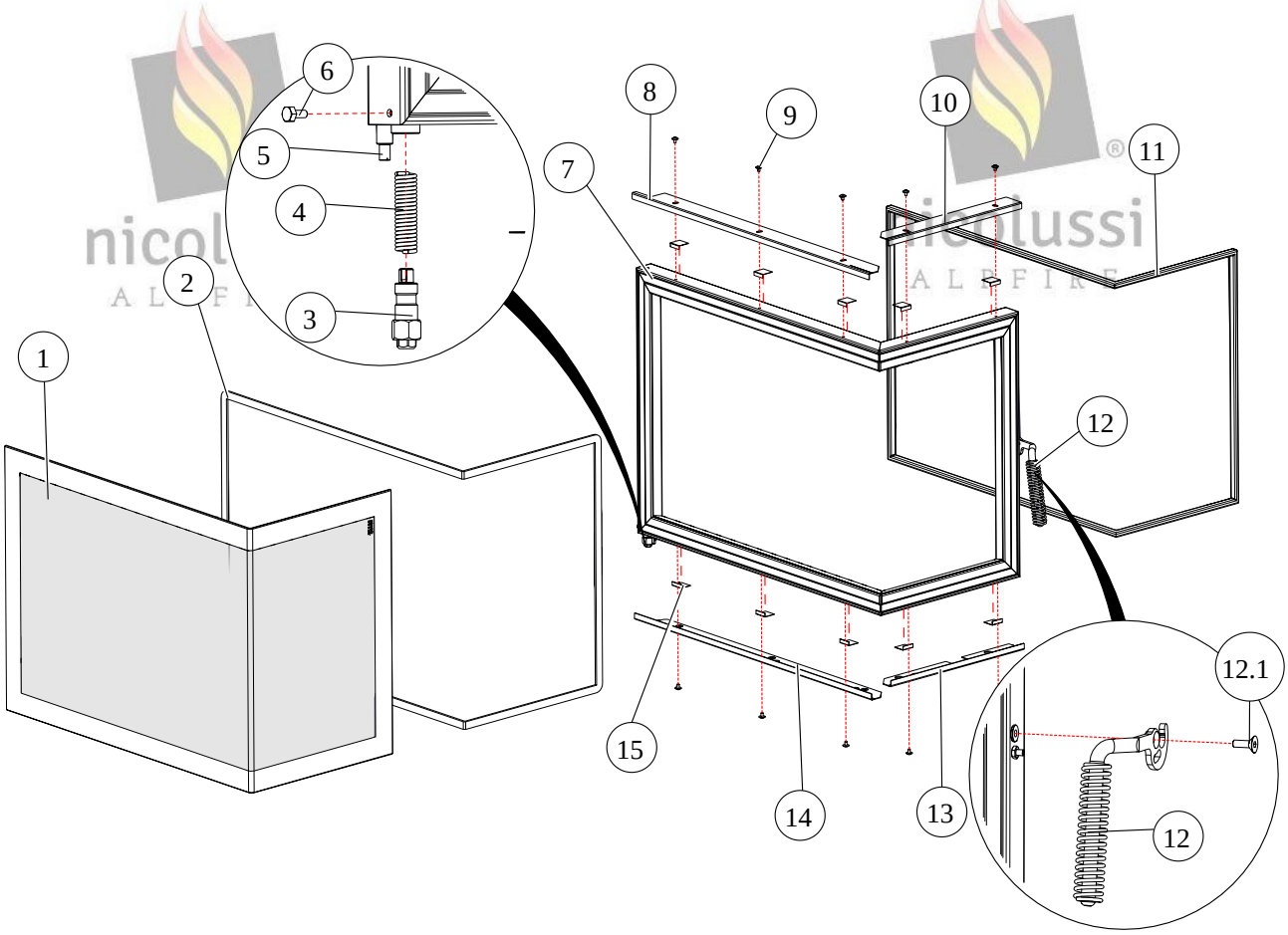
4.2 CORNER FIREPLACE WITH WATERBEARING BODY - LEFT SIDE





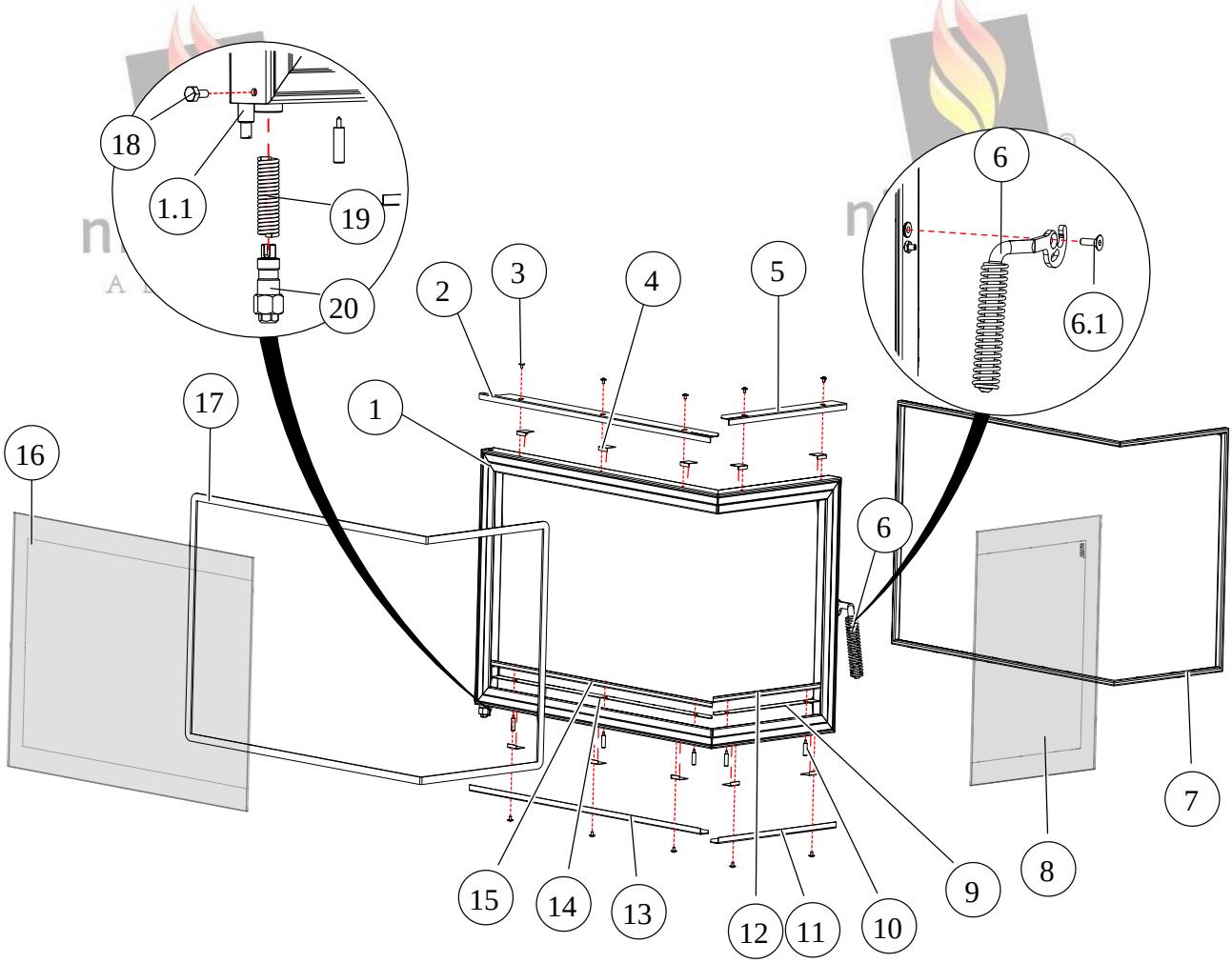
Pos.	Teilenr.	Bezeichnung	Stk.	Pos.	Teilenr.	Bezeichnung	Stk.
1	W049008	BG boiler body - L	1	10	D003239	intake air adjuster	1
2	W048145	BG smoke gas outlet D180	1	11	800143	Socket headless screw M5x25	1
3	W048161	BG intake, complete	1	12	800016	Flat head screw M5x5	1
4	W049104	Cover air box	1	13	W049105	Fiber mat	1
5	W049106	Fiber mat	1	14	W049055	BG air directing panel - L	1
6	I064071	BG cast air diffuser Brunner	1	15	W048148	BG smoke pipe cover complete	1
7	W039040	BG air adjuster (in manual mode)	1	16	02333	BG air connection nozzle, complete assembly	1
8	I007325	BG adjustable foot M14x133	4	17	10666.1	BG safety heat exchanger	1
9	I056024	Supply air turnable	1				

4.3 CORNER DOOR ASSEMBLY– DTR ONE-PIECE (I068084-01)



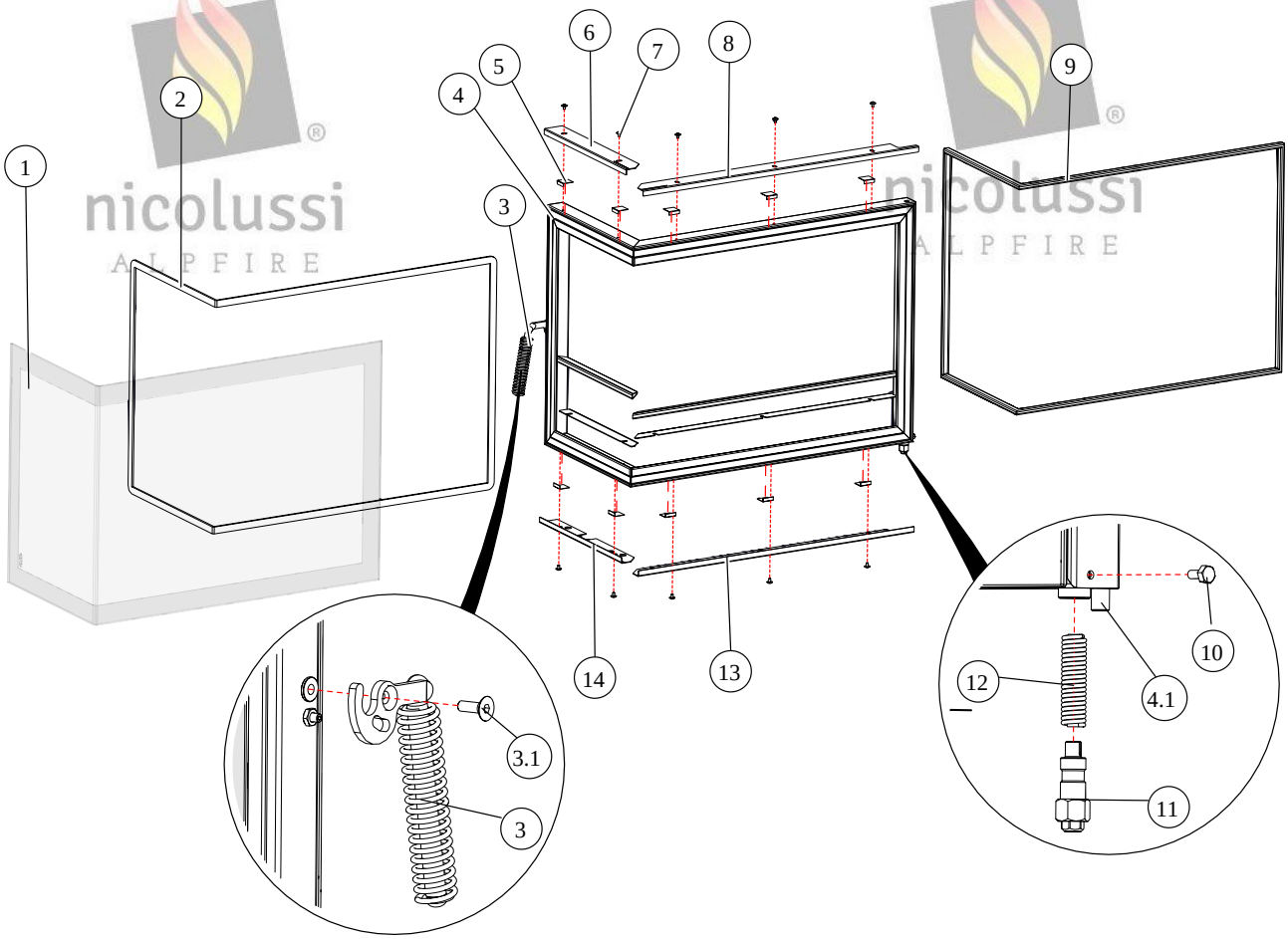
Pos.	Article	Designation	Pcs.	Pos.	Article	Designation	
1	I068010-01	Glass pane	1	9	02543	Flanged bottom head screw M4x6	10
2	I068016	Sealing glass pane to door	1	10	I068021-01	Upper holding bracket glass pane, short	1
3	I003385	Counterpart coil spring	1	11	I068015	Sealing door to front	1
4	I013955	Spring self closing	1	12	I003350	BG door handle DT S04	1
5	800164	Socket headless screw M6x16	1	12.1	00661	Countersunk bolt M6x16	1
6	02531	Hexagon bolt M5x10	1	13	I068019-01	Holding bracket glass pane short, bottom	1
7	I068085	BG door frame DTR	1	14	I068018-01	Holding bracket glass pane long, bottom	1
8	I068017-01	Upper holding bracket glass pane, long	1	15	I012415	Sealing glass holding bracket	10

4.4 CORNER DOOR ASSEMBLY – DTR TWO-PIECE (I068084-03)



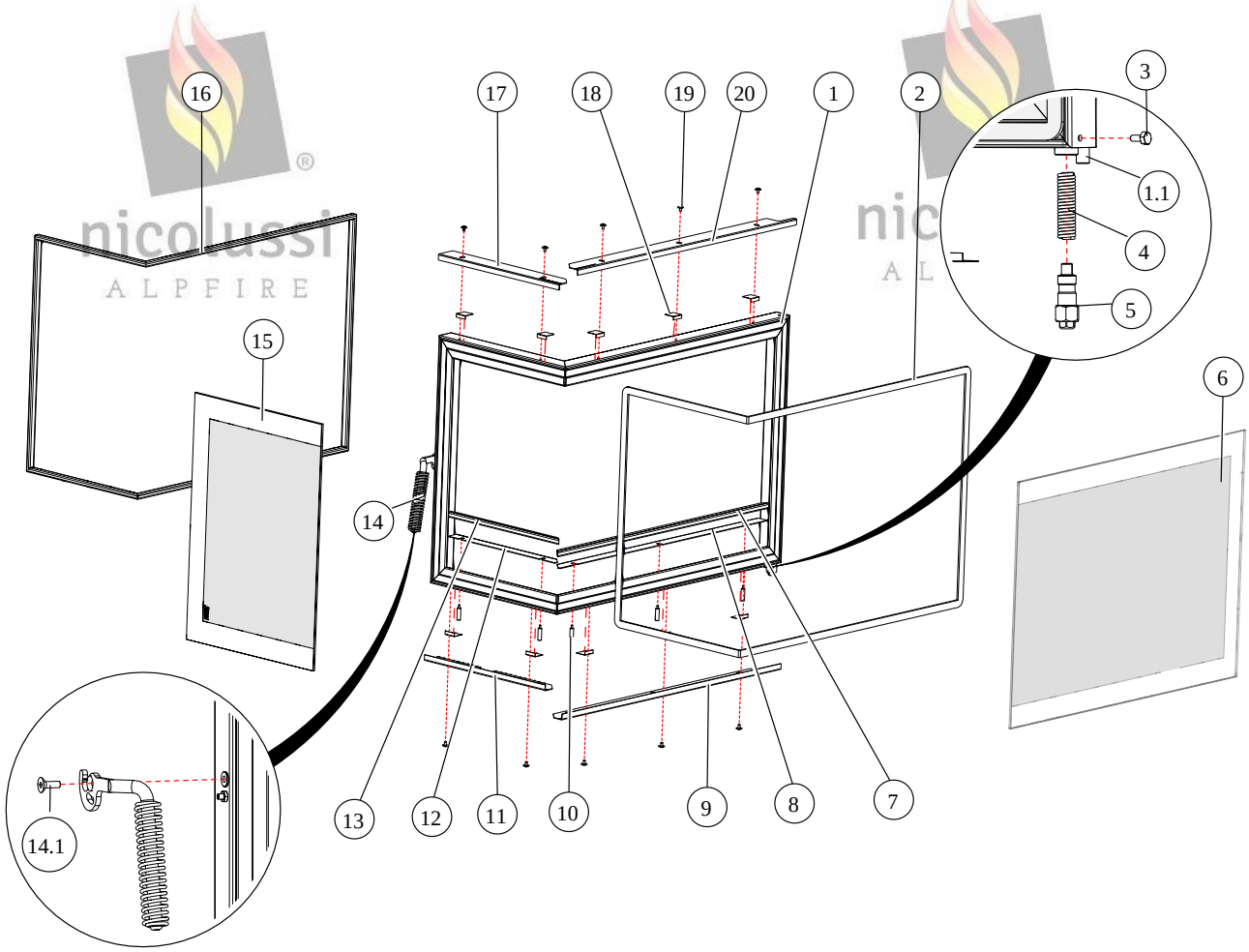
Pos.	Part.-No.	Designation	Pcs.	Pos.	Part.-No.	Designation	Pcs.
1	I068085	BG door frame DTR	1	10	02446	Screw M3x6 - 26	5
1.1	I040306	Bolt door hinge	1	11	I068019-01	Bottom holding bracket glass pane short	1
2	I068017-01	Upper holding bracket glass pane long	1	12	I068024	Bottom clamping profile, short - R	1
3	02543	Flanged button head screw M4x6	10	13	I068018-01	Bottom holding bracket glass pane, long	1
4	I012415	Sealing holding bracket glass pane	10	14	I068023	Cover plate sealing, long - R	1
5	I068021-01	Upper holding bracket glass pane short	1	15	I068022	Bottom clamping profile, long R	1
6	I003350	BG door handle, right DT S04	1	16	I068175-01	Glass pane long	1
6.1	00661	Countersunk bolt M6x16	1	17	I068016	Sealing glass pane to door	1
7	I068015	Sealing door to front	1	18	02531	Hexagon boltM5x10	1
8	I068176-01	Glass pane short	1	19	I013955	Spring self closing	1
9	I068025	Cover plate sealing, short - R	1	20	I003385	Counterpart coil spring	1

4.5 ONE-PIECE DTL CORNER DOOR ASSEMBLY (I068166-01)



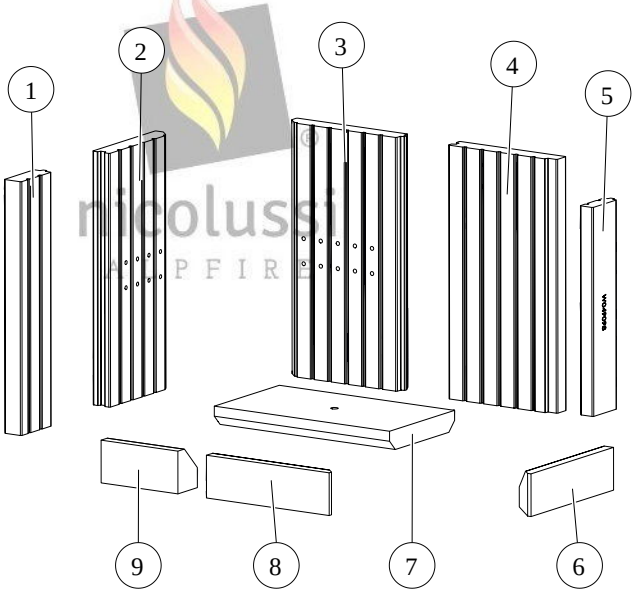
Item	Part No.	Designation	No.	Item	Part No.	Designation	No.
1	I068010-01	Glass pane	1	7	02543	Lens headed screw M4x6	10
2	I068016	Seal between glass and door	1	8	I068154-01	Upper left long glass holder	1
3	I003436	Left door handle assembly DT S04	1	9	I068015	Seal between door and front	1
3.1	00661	Countersunk screw M6x16	1	10	02531	Hexagon screw M5x10	1
4	I068167	DTL door frame assembly	1	11	I003385	Torsion spring counterpart	1
4.1	I040306	Door hinge bolt	1	12	I013955	Self-closing spring	1
5	I012415	Glass holding bracket seal	10	13	I068156-01	Lower left long glass holder	1
6	I068155-01	Upper left short glass holder	1	14	I068157-01	Lower left short glass holder	1

4.6 TWO-PIECE DTL CORNER DOOR ASSEMBLY (I068166-03)



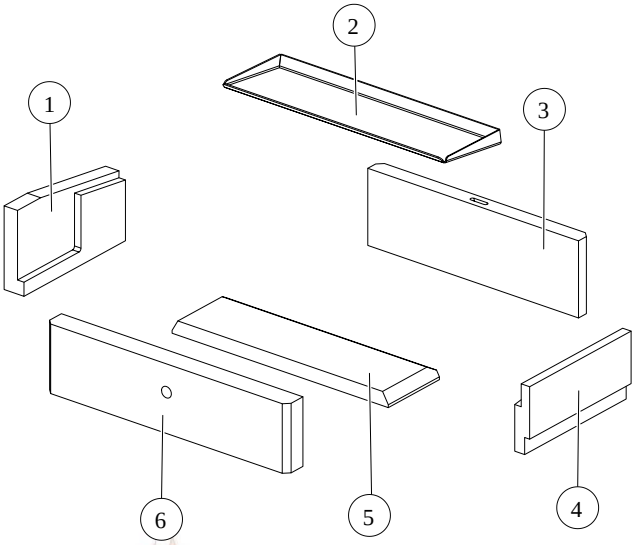
Item	Part No.	Designation	No.	Item	Part No.	Designation	No.
1	I068167	DTL door frame assembly	1	11	I068157-01	Lower left short glass holder	1
1.1	I040306	Door hinge bolt	1	12	I068153	Short seal cover panel - L	1
2	I068016	Seal between glass and door	1	13	I068151	Short lower clamping profile - L	1
3	02531	Hexagon screw M5x10	1	14	I003436	Left door handle assembly DT S04	1
4	I013955	Self-closing spring	1	14.1	00661	Countersunk screw M6x16	1
5	I003385	Torsion spring counterpart	1	15	I068176-01	Short glass pane	1
6	I068175-01	Long glass pane	1	16	I068015	Seal between door and front	1
7	I068150	Long lower clamping profile - L	1	17	I068155-01	Upper left short glass holder	1
8	I068152	Long seal cover panel – L	1	18	I012415	Glass holding bracket seal	10
9	I068156-01	Lower left long glass holder	1	19	02543	Lens headed screw M4x6	10
10	02446	Screw M3x6 - 26	5	20	I068154-01	Upper left long glass holder	1

4.7 COMPONENTS OF FIRECLAY INNER LINING (W049011)



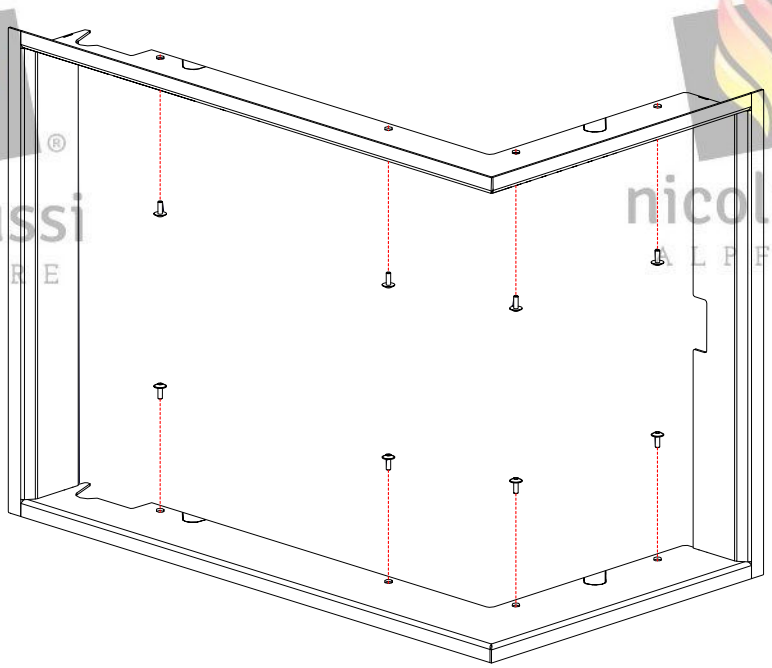
Pos.	Part-No.	Designation
1	W049110	Side wall stone
2	W049085	Side corner stone
3	W049087	Rear corner stone
4	W049099	Rear stone
5	W049098	Door stone
6	W049101	Side corner wedge stone
7	W049086	Bottom stone
8	W049102	Front corner wedge stone
9	W049100	Front wedge stone

4.8 DEFLECTOR COMPONENTS (W049012)

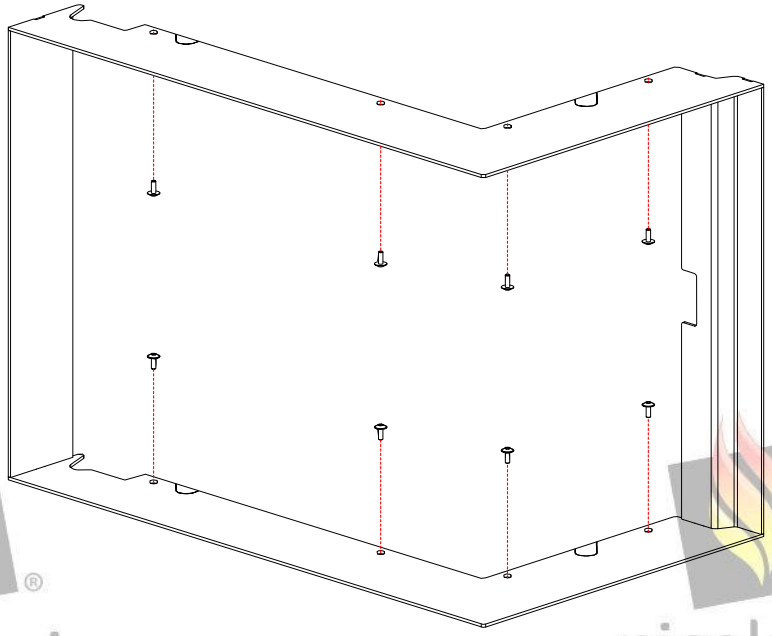


Pos.	Part-No.	Designation
1	W049066	Insulating panel combustion chamber side r
2	W049065	Metal baffle plate
3	W049062	Rear insulating panel
4	W049064	Insulating panel door side
5	W049063	Baffle plate
6	W049068	Insulating panel front side

4.9 DOOR FRAME ASSEMBLY (I068089-01)

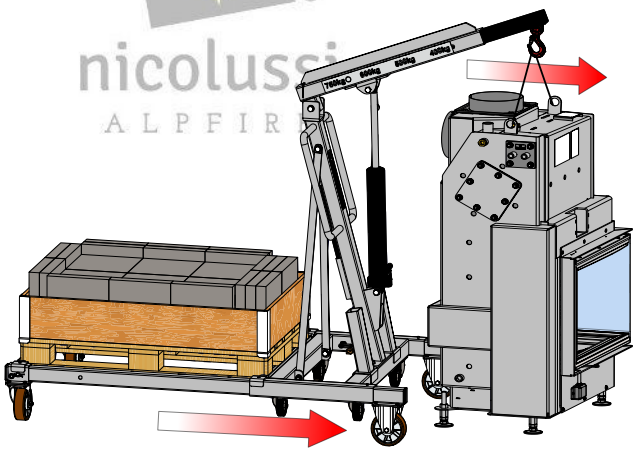


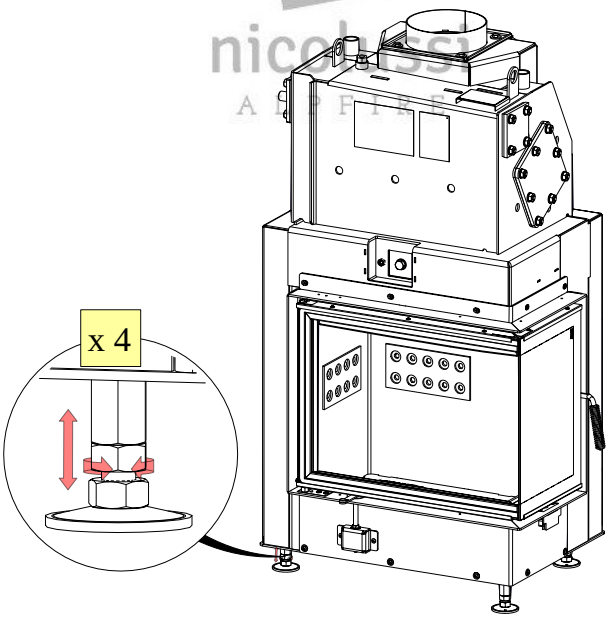
4.10 MOUNTING FRAME ASSEMBLY SIDE OPENING DOOR (I068177-01)

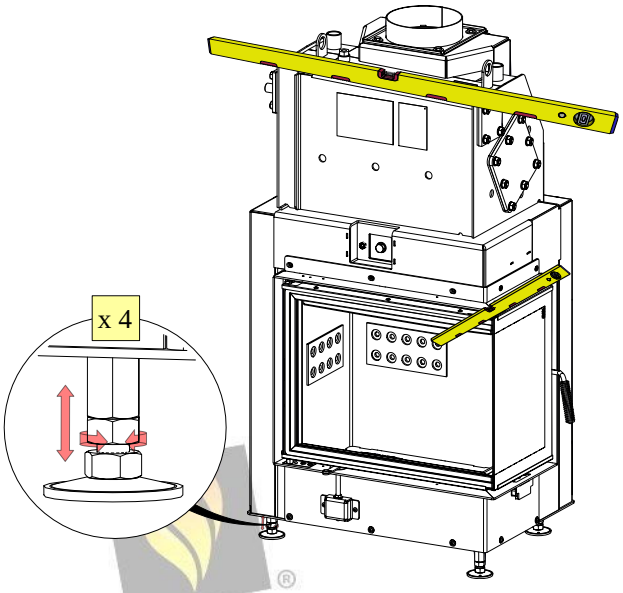


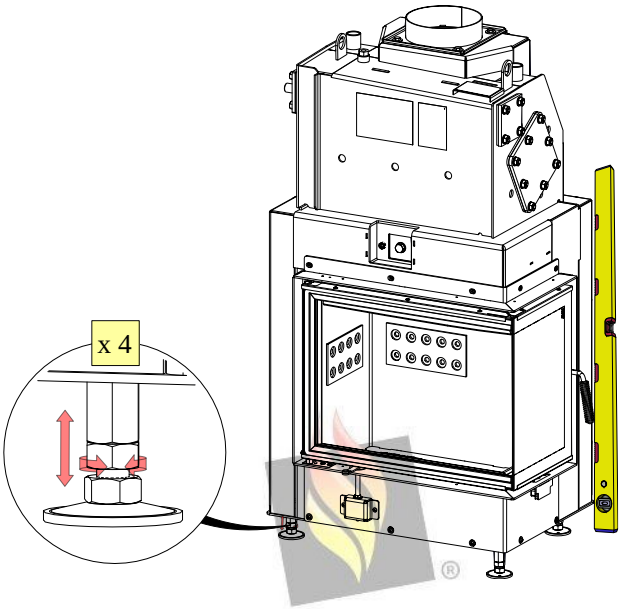
5 INSTALLATION

5.1 SETTING UP

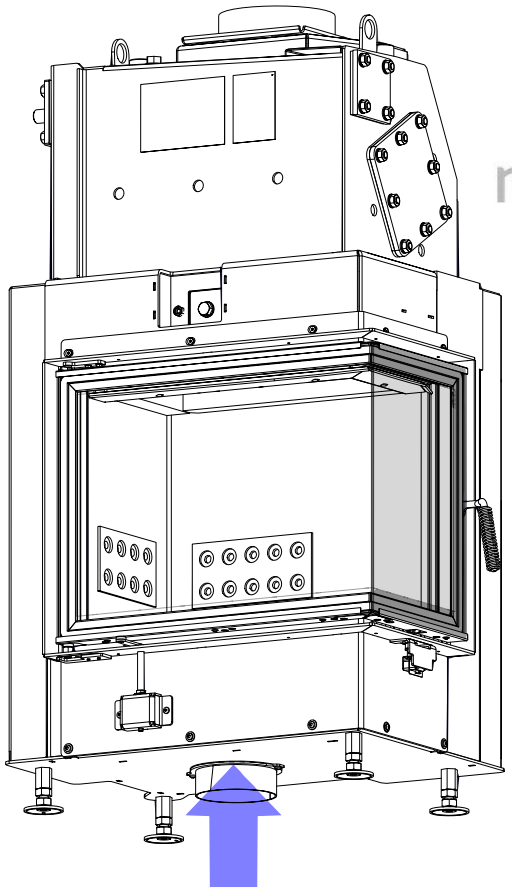




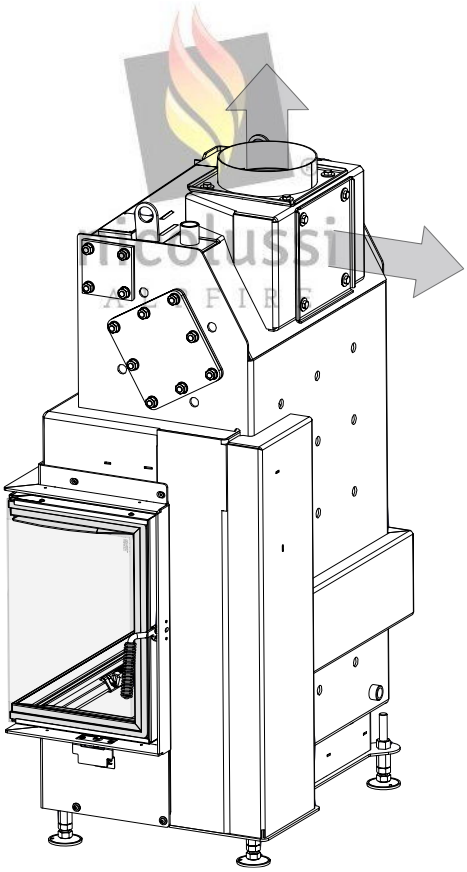


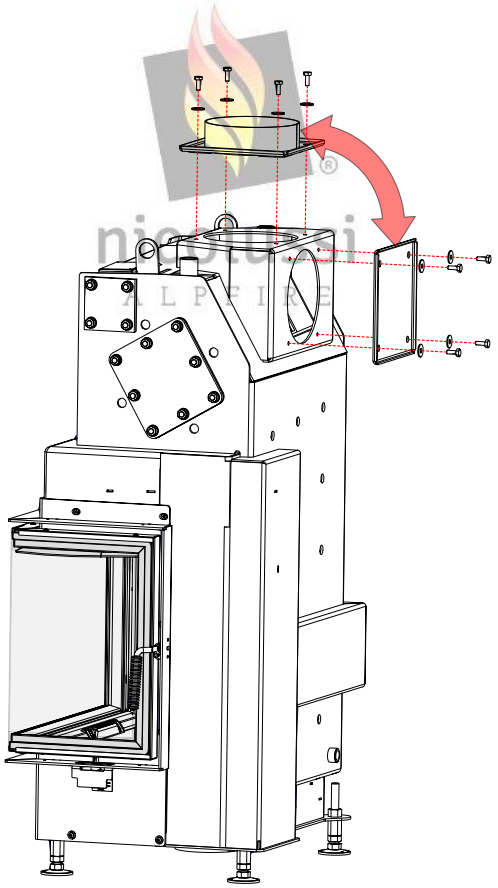


5.2 AIR SUPPLY CONNECTION

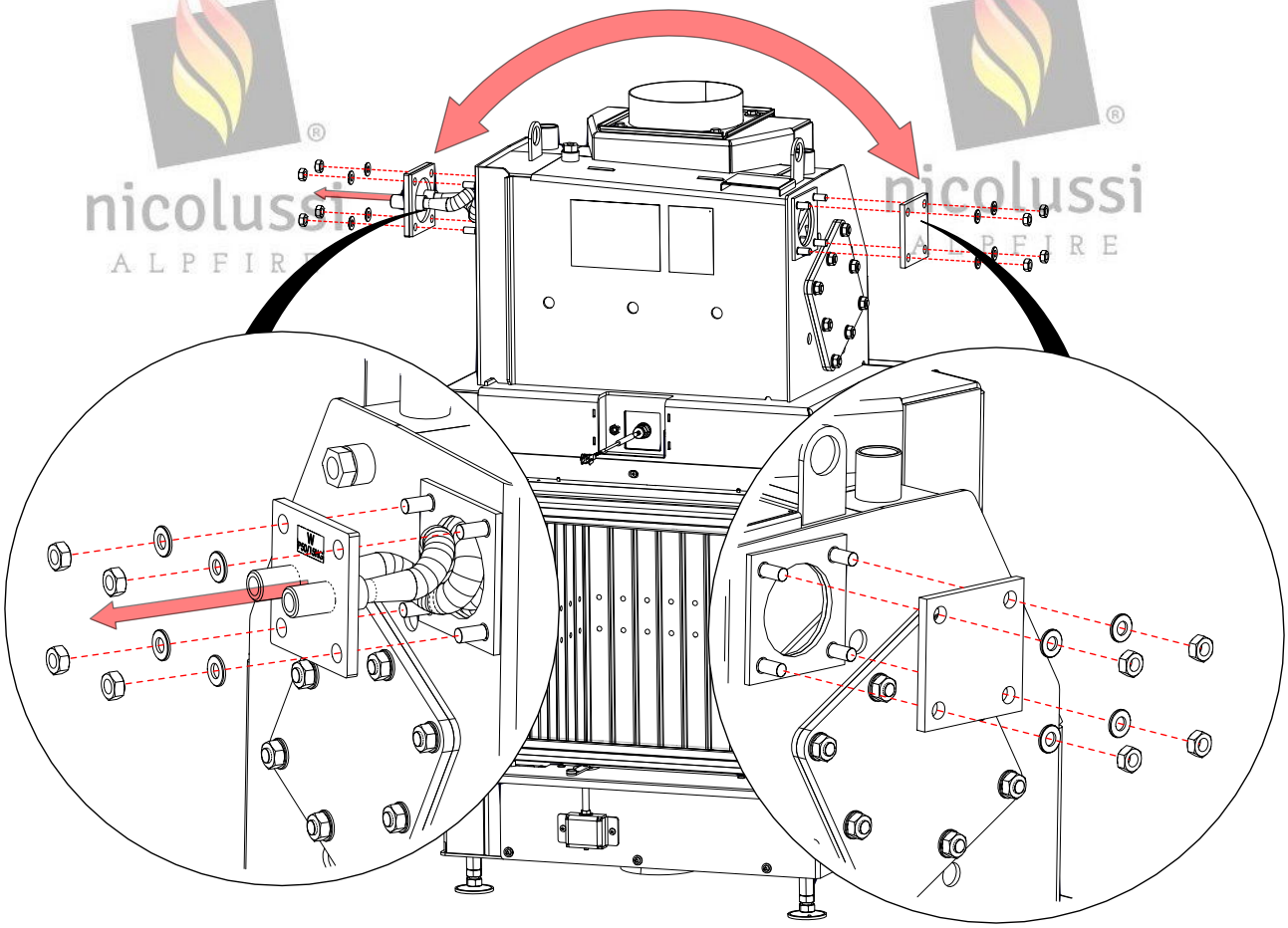


5.3 FLUE GAS OUTLET

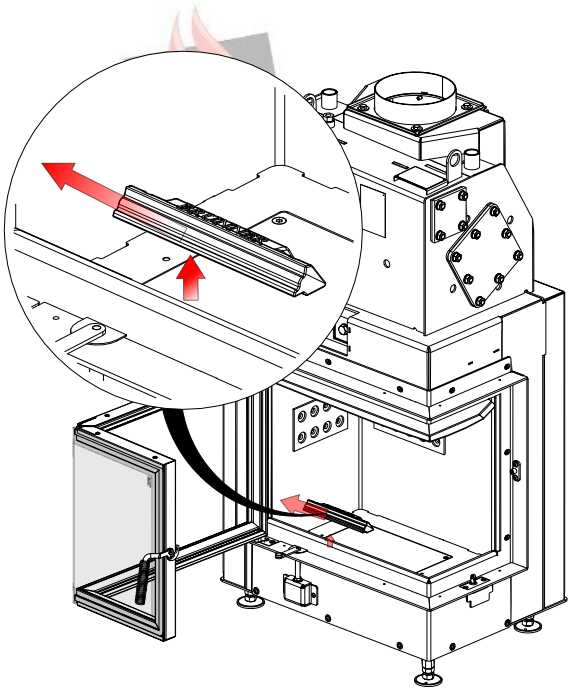


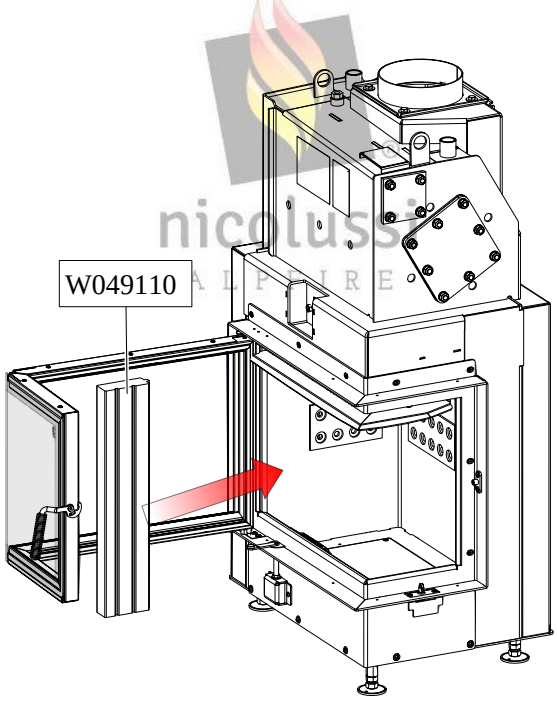


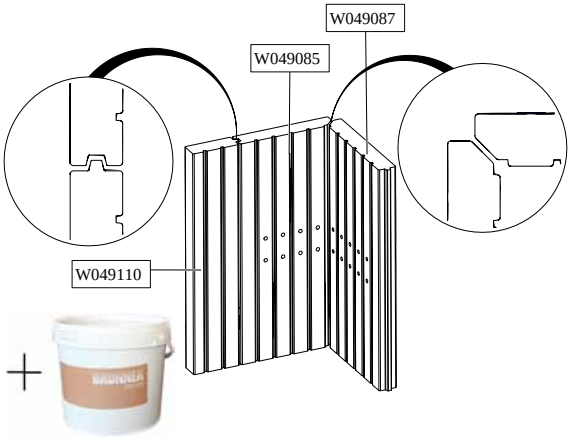
5.4 CHANGING THE POSITION OF THE SAFETY HEAT EXCHANGER

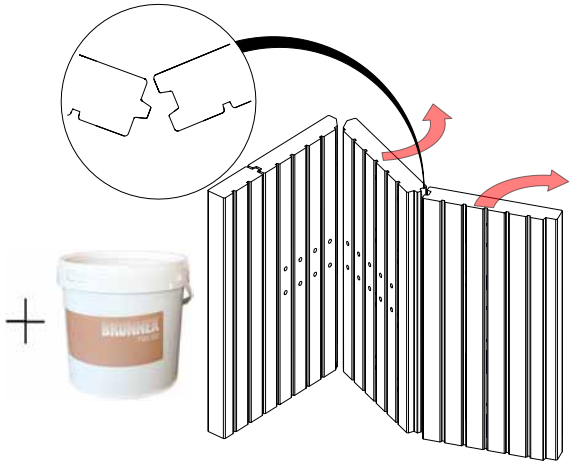


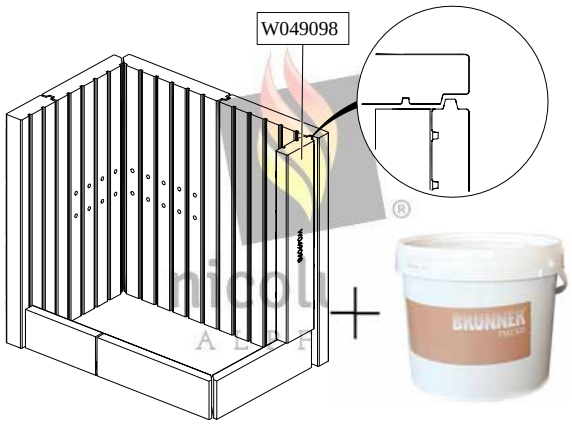
5.5 INSTALLATION OF THE REFRACTORY INNER LINING

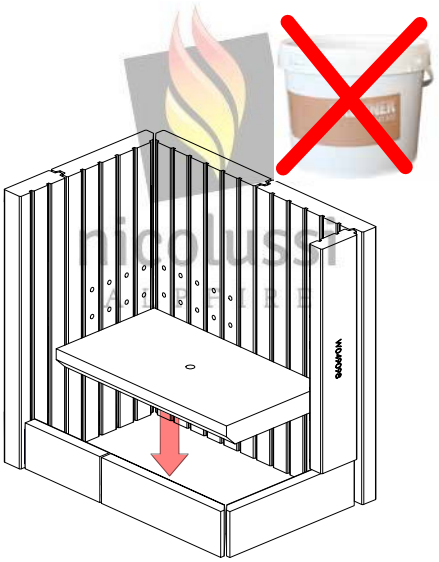


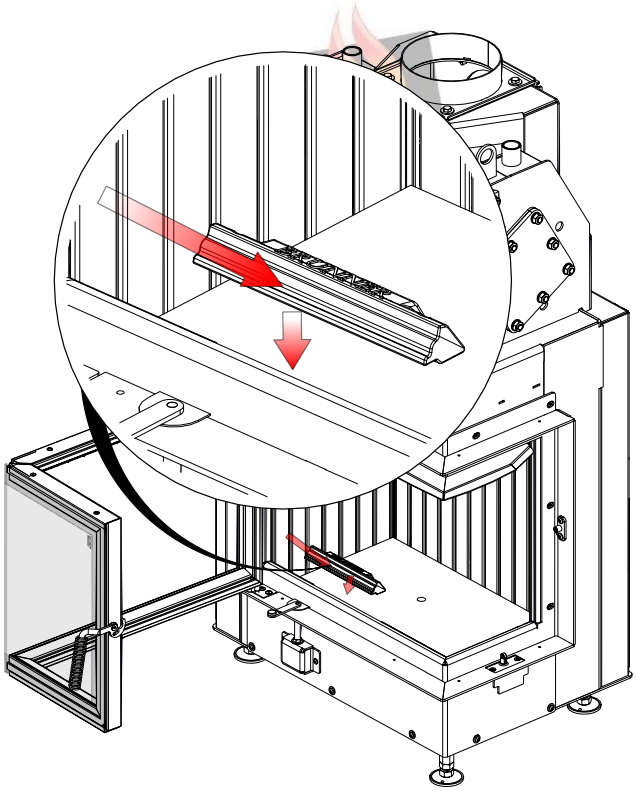






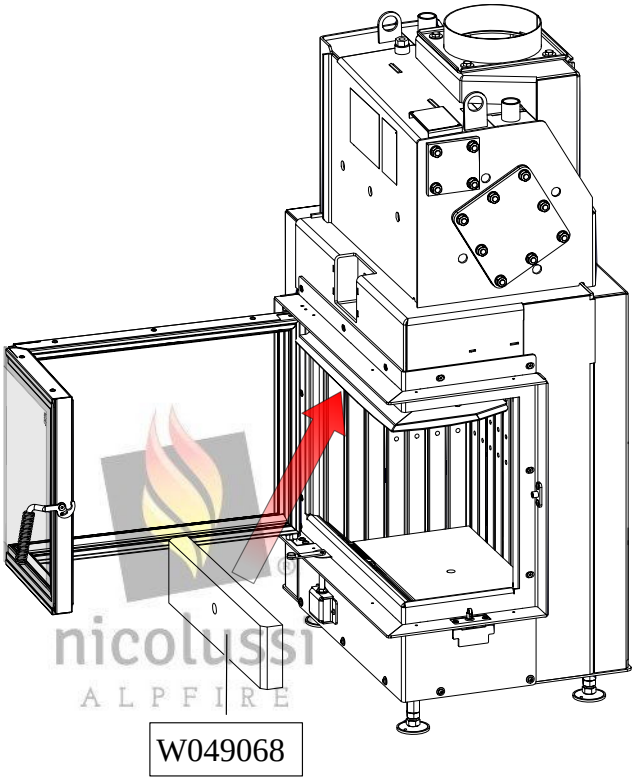


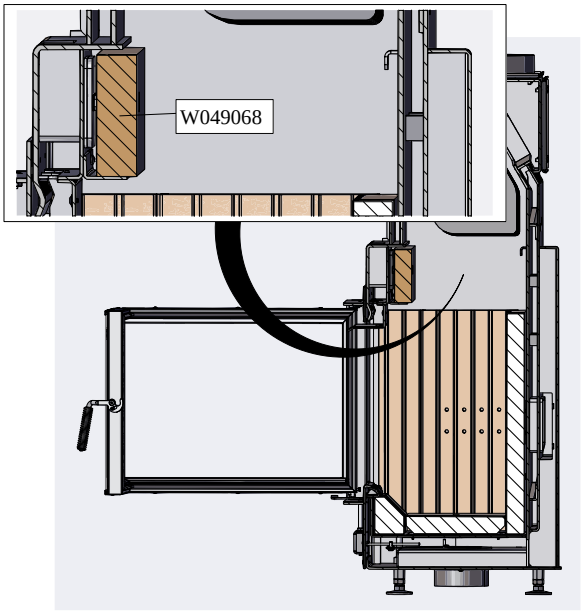


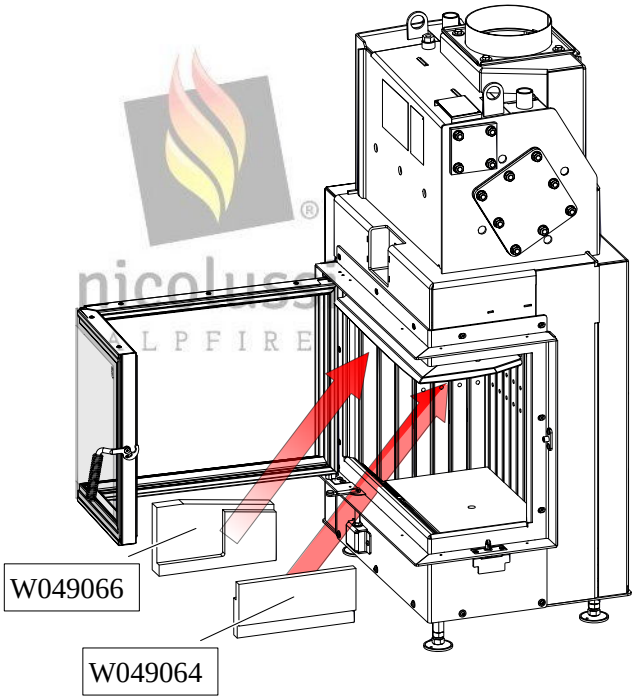


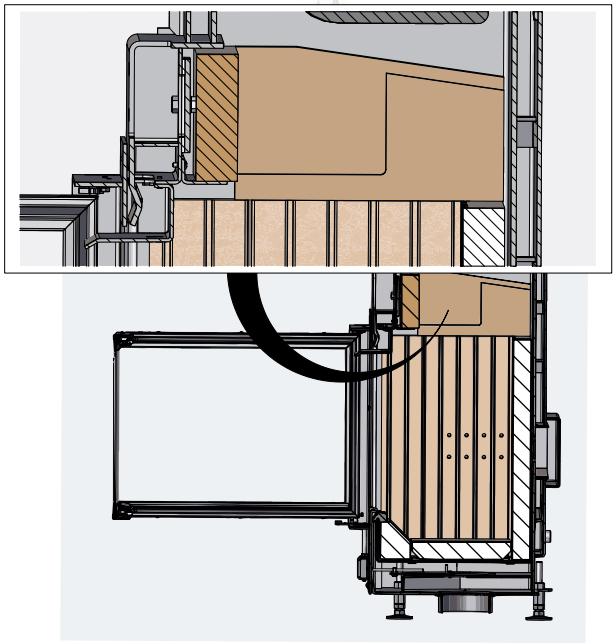
5.6 INSTALLATION OF THE ISO-COVER

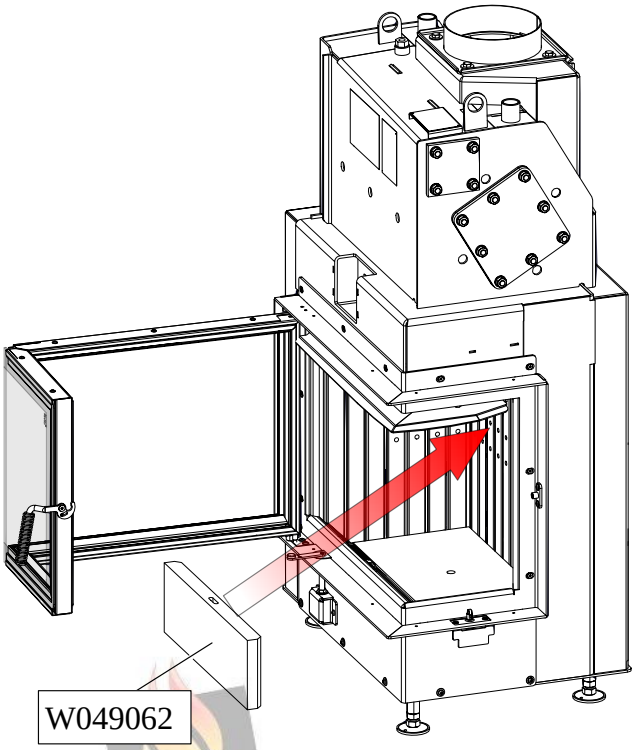
Example: Kamin-Kessel right side opening:

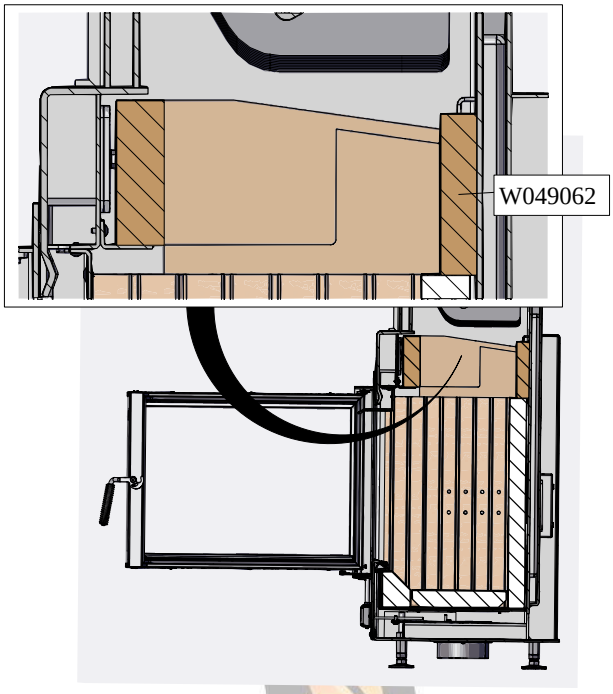


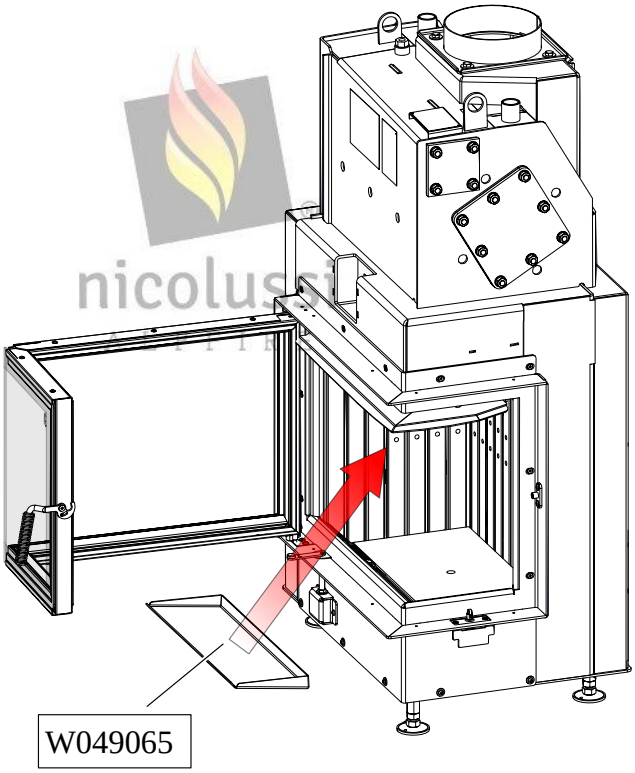


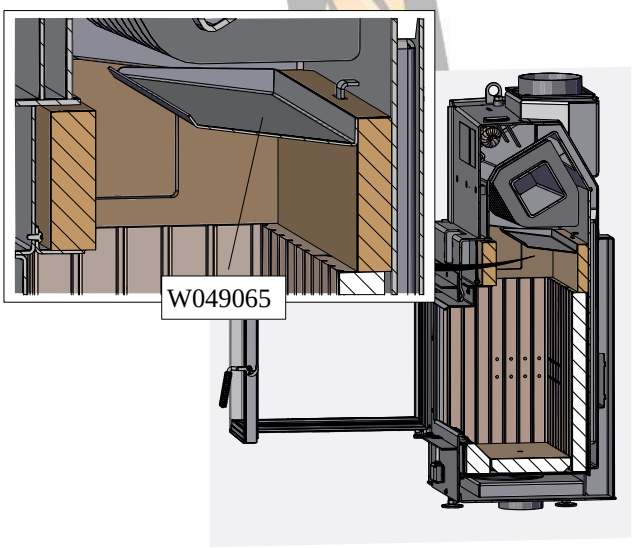


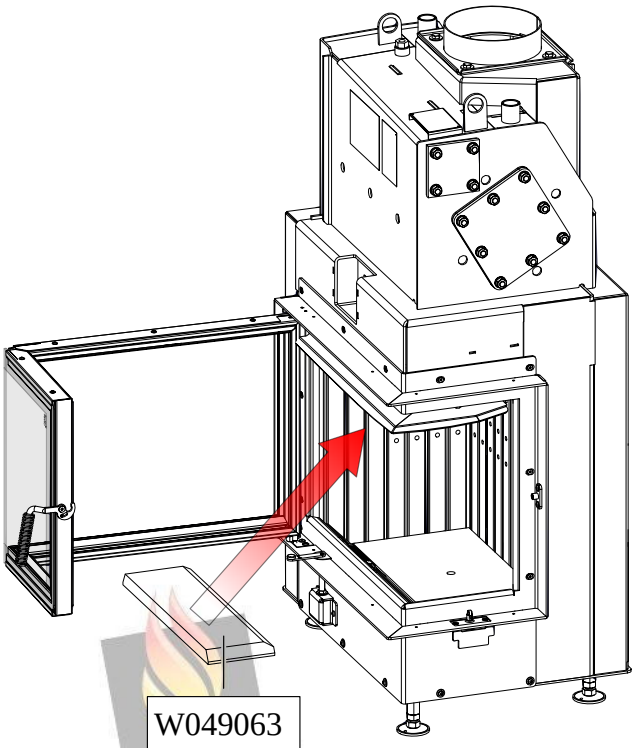


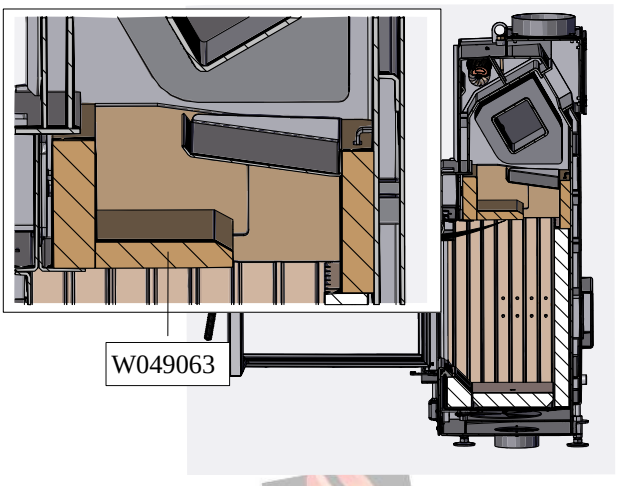






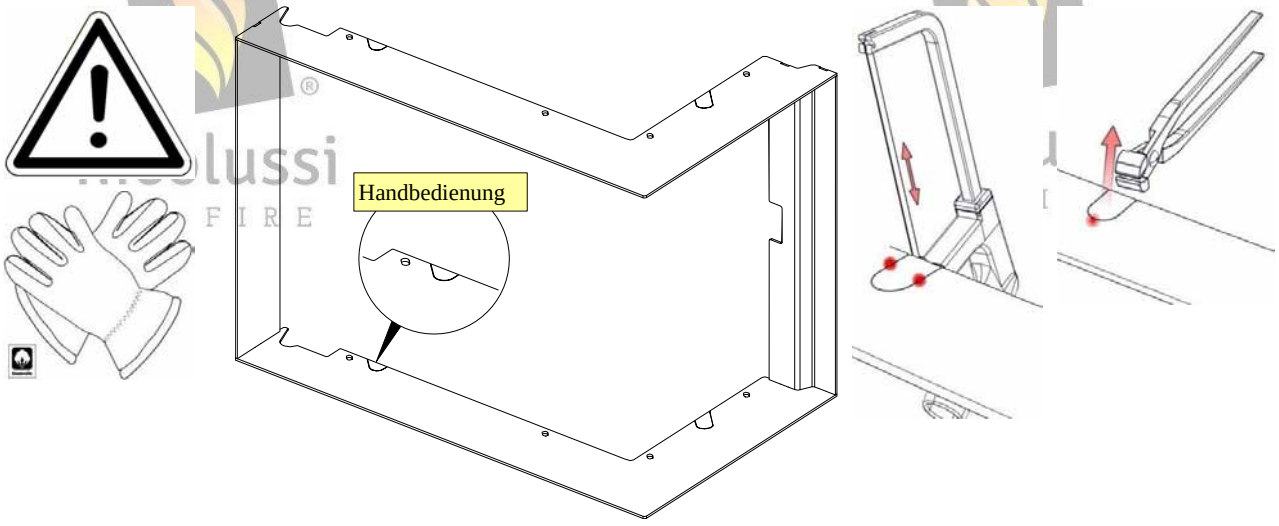


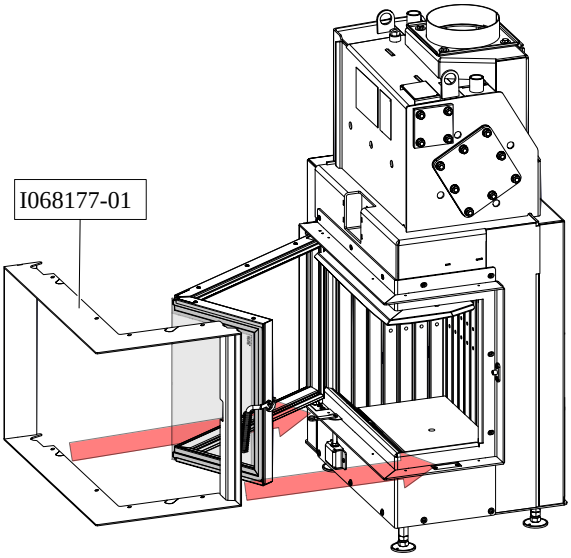


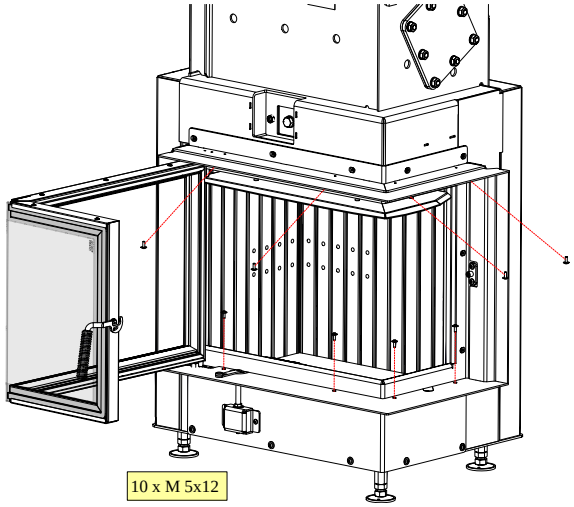


5.7 INSTALLATION OF MOUNTING FRAME

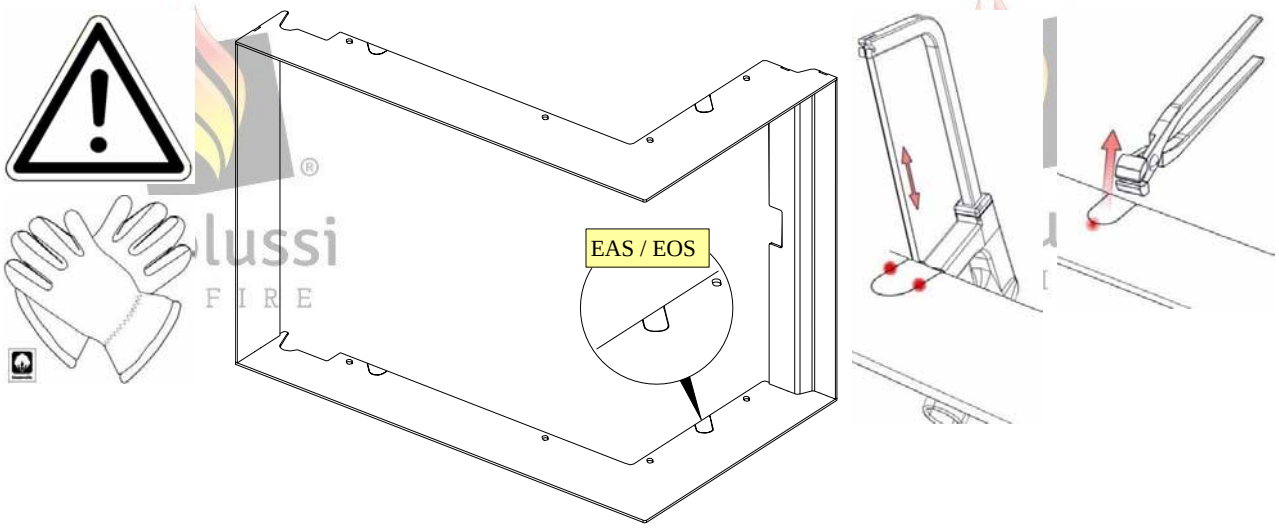
at manual operation.

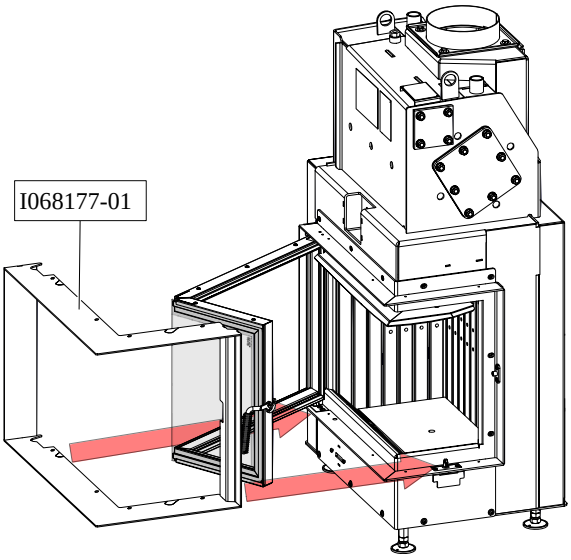


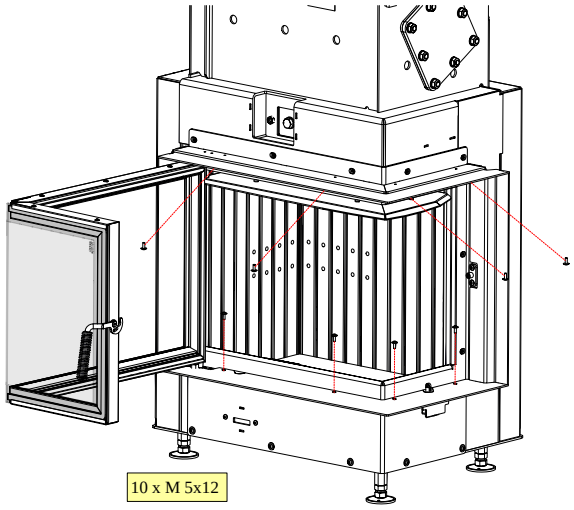




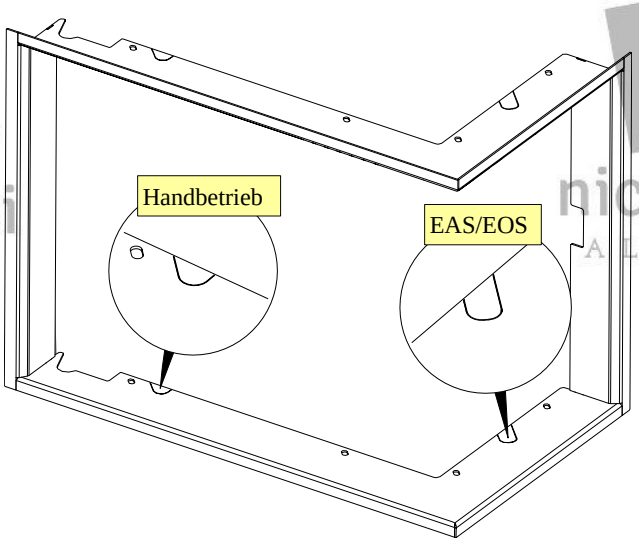
with EAS / EOS



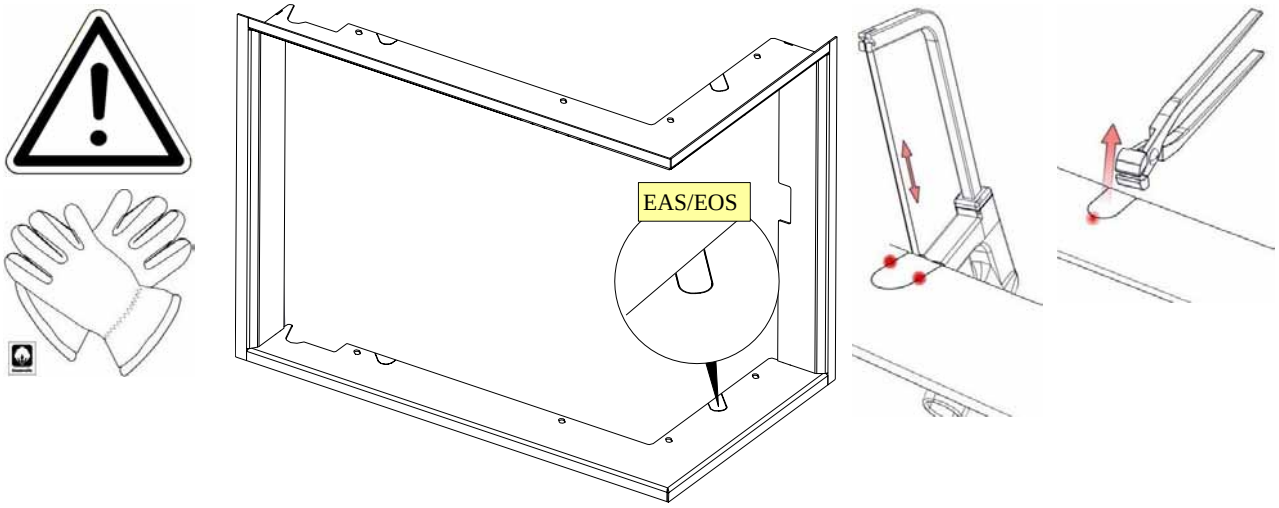


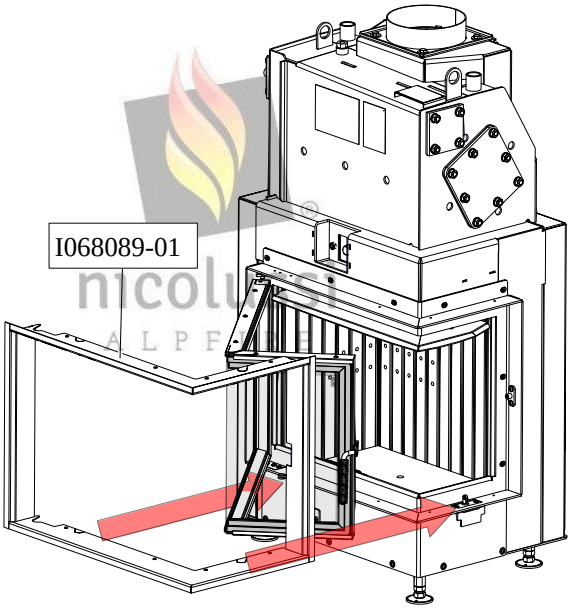


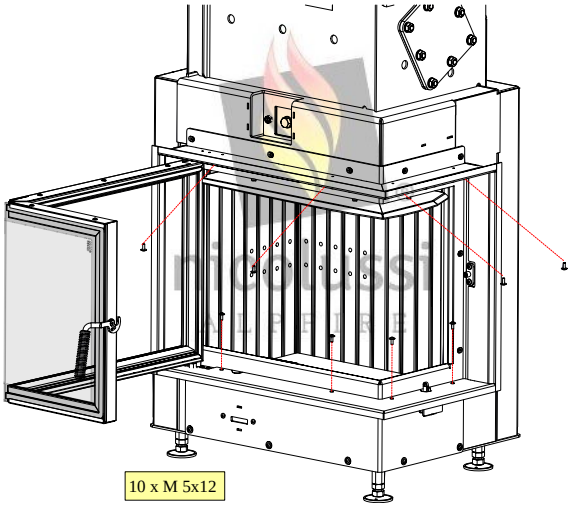
5.8 INSTALLATION OF DOOR FRAME



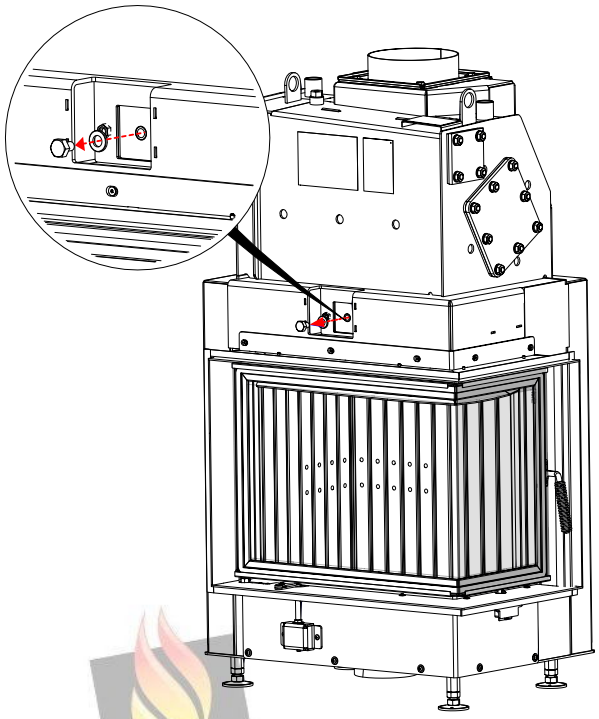
Example: with EOS / EAS

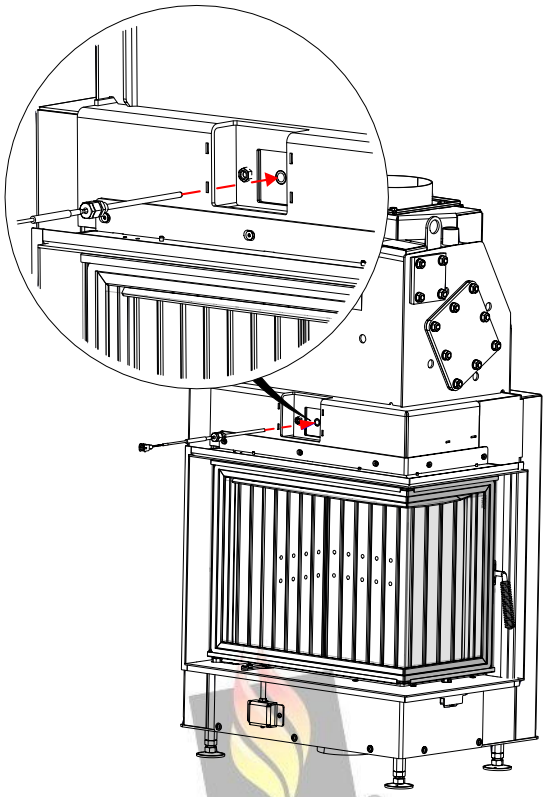






5.9 INSTALLATION OF THE THERMOCOUPLE

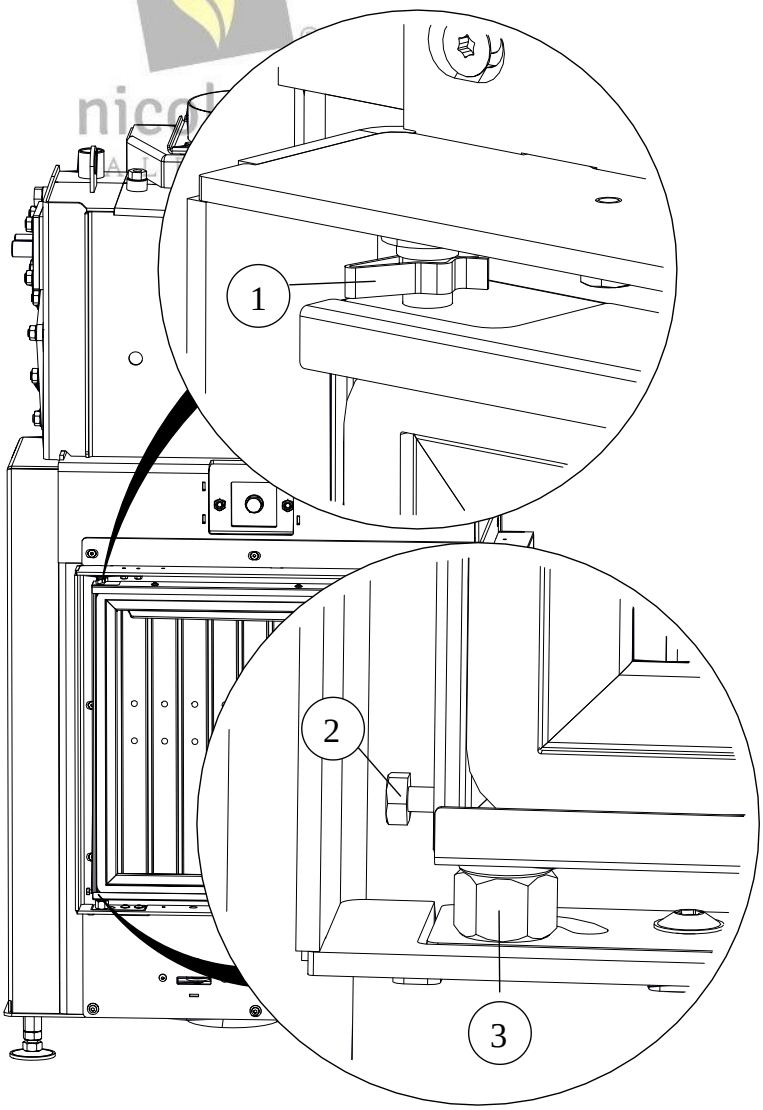




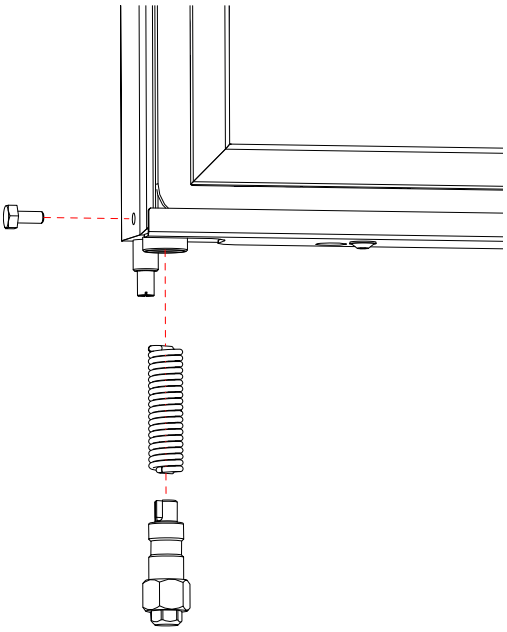
6 SETTINGS

6.1 ADJUSTMENT OF SELF-CLOSING FUNCTION

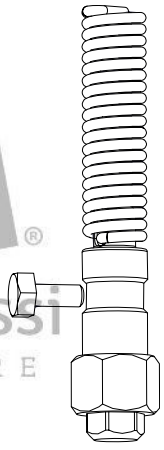
The self-closing function is active at delivery.



1	Safety catch
2	Securing screw (hexagon screw)
3	Hexagon bolt (torsion spring counterpart)

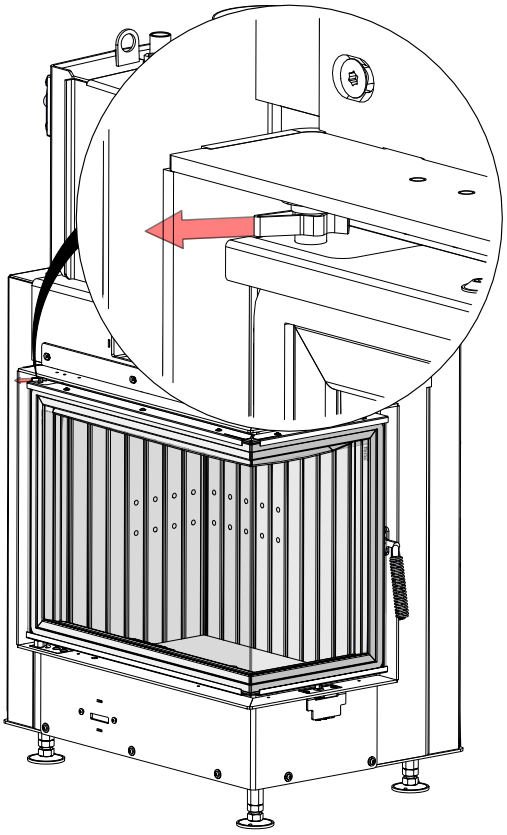


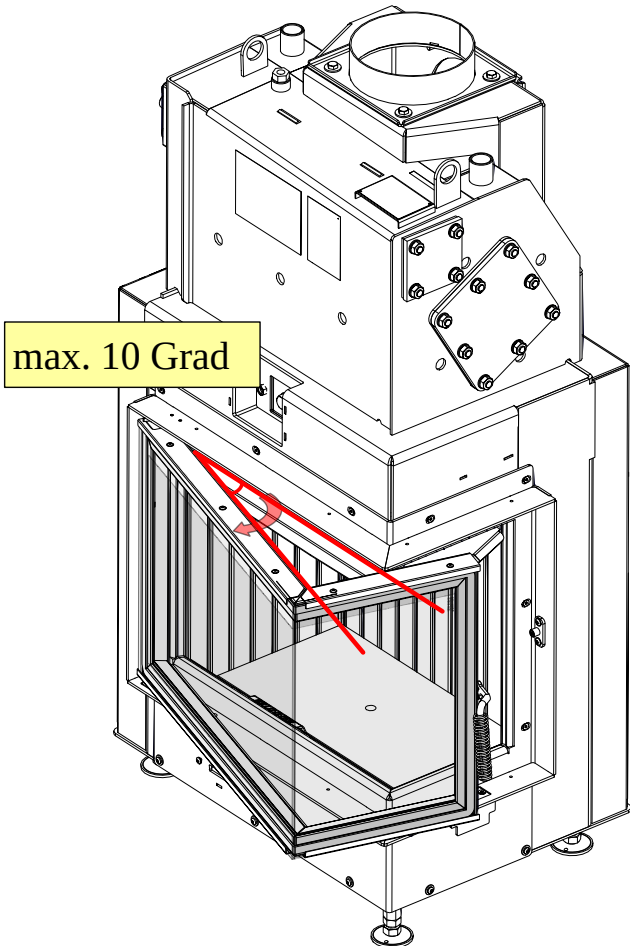
Position: **engaged**:

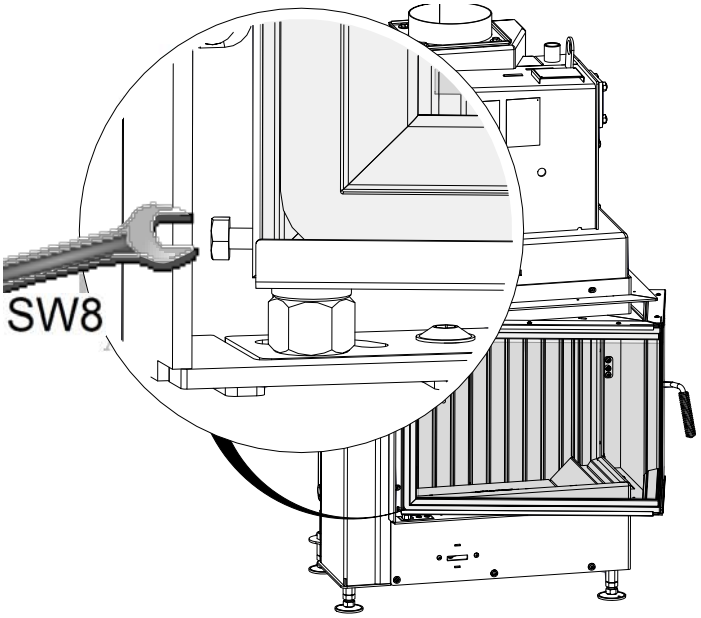


Position: **disengaged**:

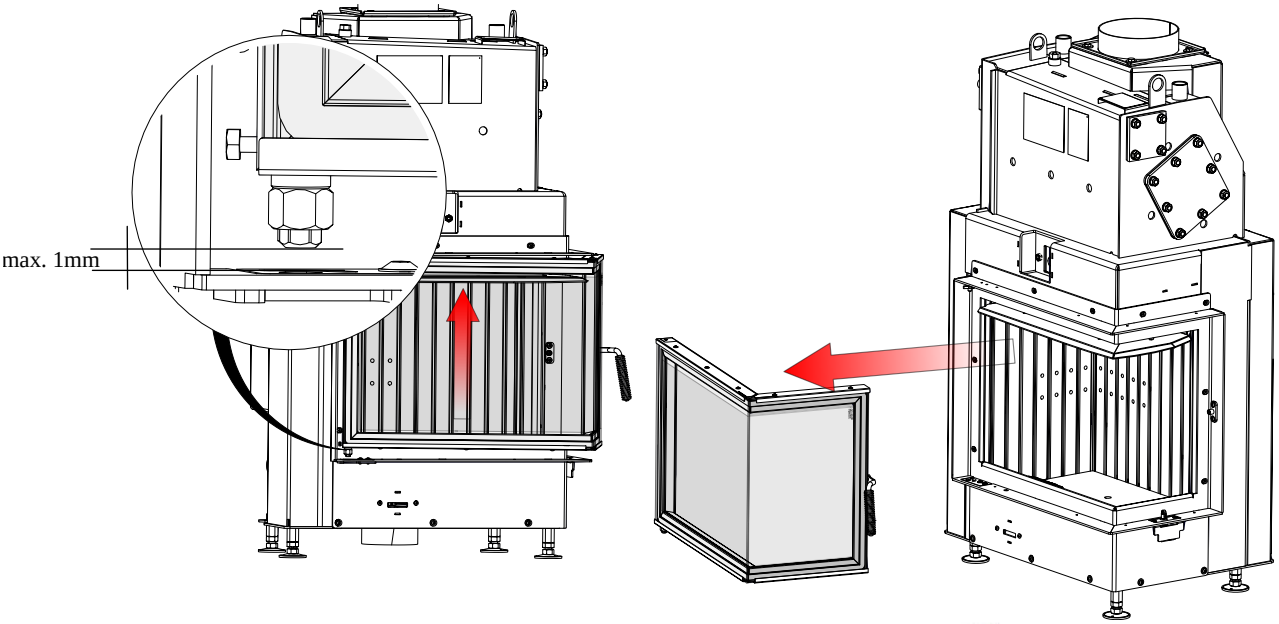
To deactivate or activate the self-closing function, perform the steps below:
- Remove the safety catch (1)
- Open the door a little
- Secure the hex bolt (3) by fastening the securing screw (2); this will allow for fixing the spring pretension. When the hex bolt (3) is fixed, the door must not be turned!
- Lift the door up until the hex bolt (3) is laid free
- Pull the door carefully at the bottom to yourself while lowering the door at the same time. The upper hinge bolt is now detached and the door can be removed.



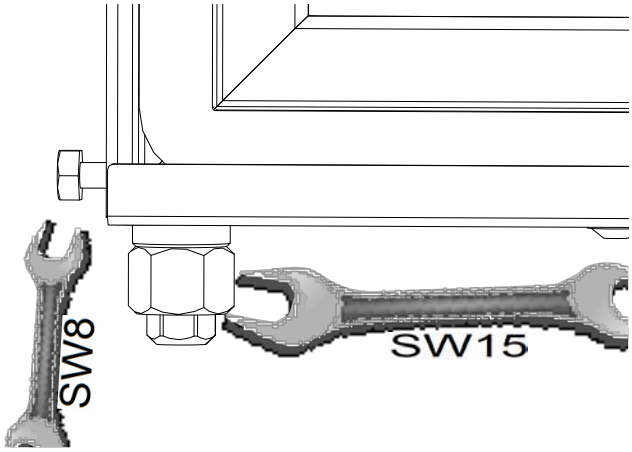




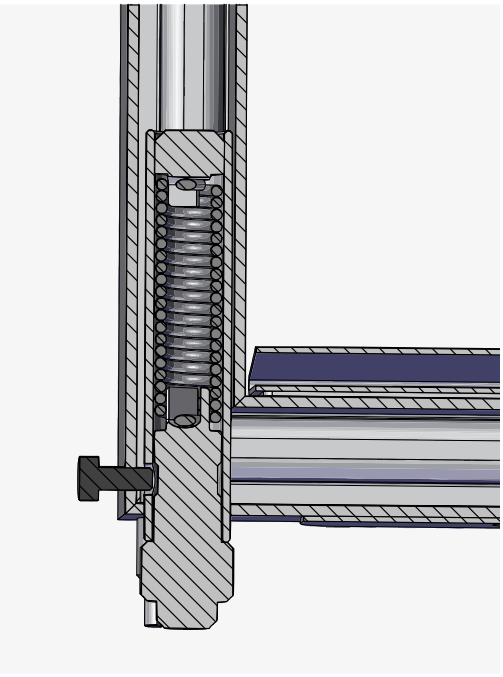
Do not turn the door **right now**!



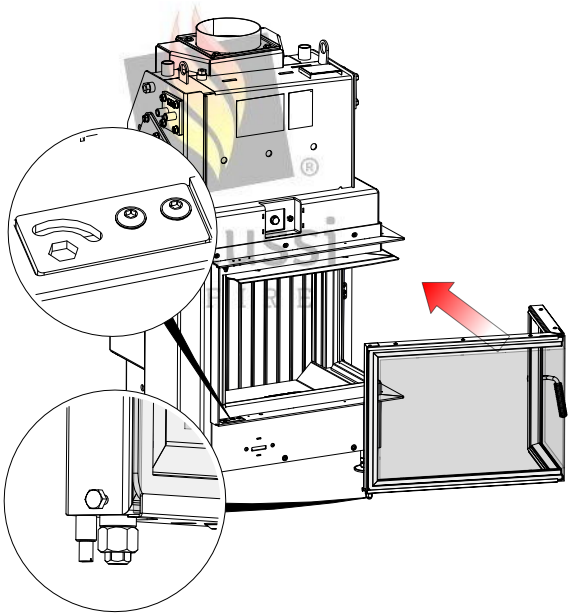
- Secure (hold) the hex bolt (3) with a spanner (No.15)
- Unscrew the securing screw (2)
- Loosen the hex bolt (3) slowly with a spanner (Caution: spring force!)
- Fasten the securing screw (2) again, but do not tighten
- Attach the door again

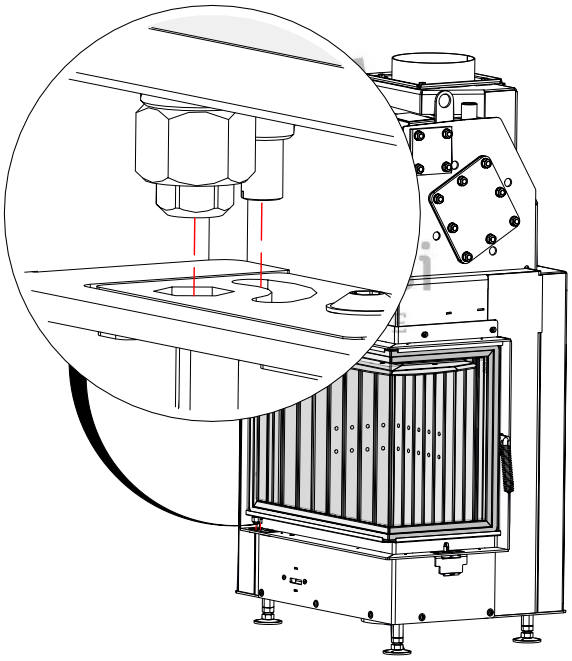


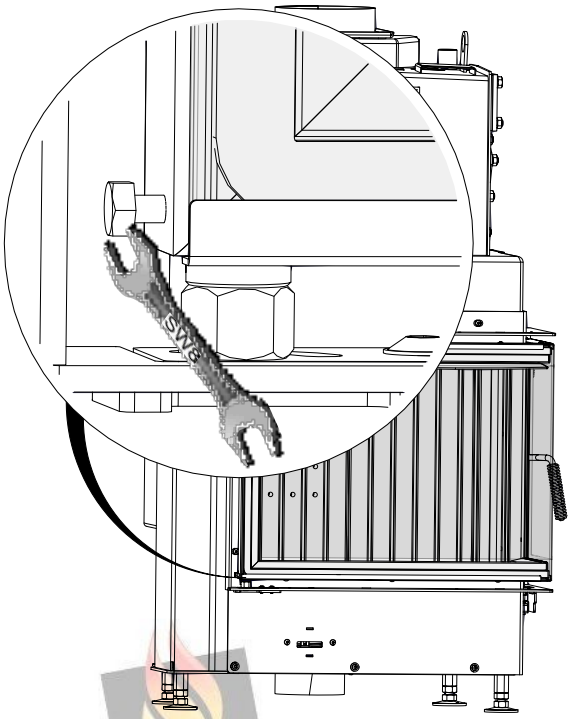
- Unscrew the securing screw (2)
- Turn the hex bolt (3) with the spring inside into the bore until the upper spring loop engages
- Pre-tension the hex bolt (3) by turning counter-clockwise (approx. 3/4 turn) and affix with securing screw (2)

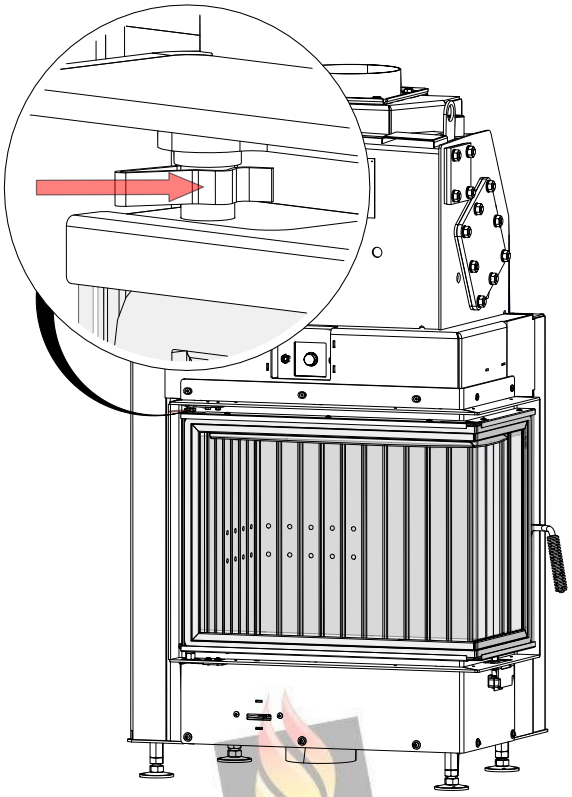


- To attach the door, align the door frame bore with the hinge bolt (3) and lift the door up. Lower the hex bolt (3) onto the hexagon openings in the lower horizontal frame part. As soon as the door is slightly turned, the hex bolt (3) should engage inside the openings. Do not turn the door, as long as the securing screw (2) is tightened.
- Loosen the securing screw (2) to open the fireplace door.
- Check the self-closing function. Adjustment of spring force is possible after detaching the door by changing the spring pretension (turning of hex bolt).
- Secure the door with safety catch (1).



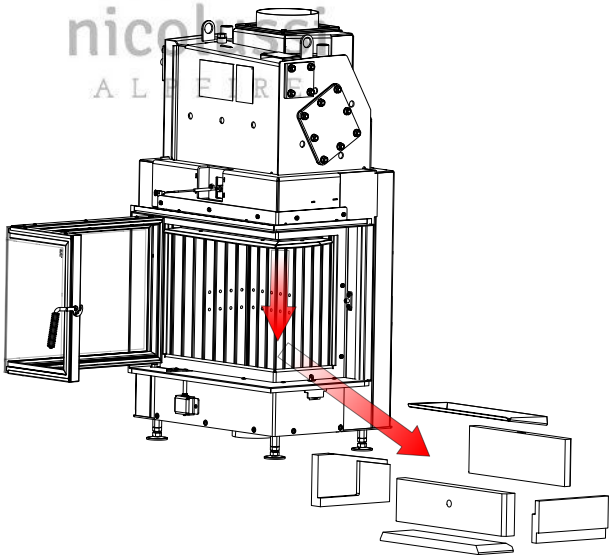




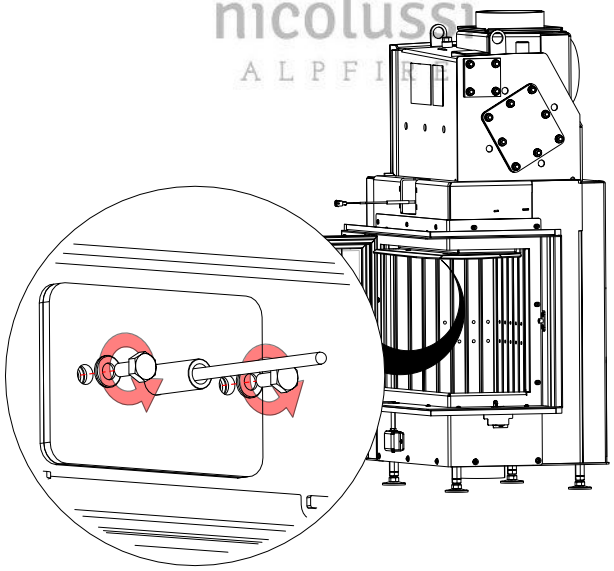


7 EXCHANGE DIVERTER (ISO-COVER) AND THERMOCOUPLE

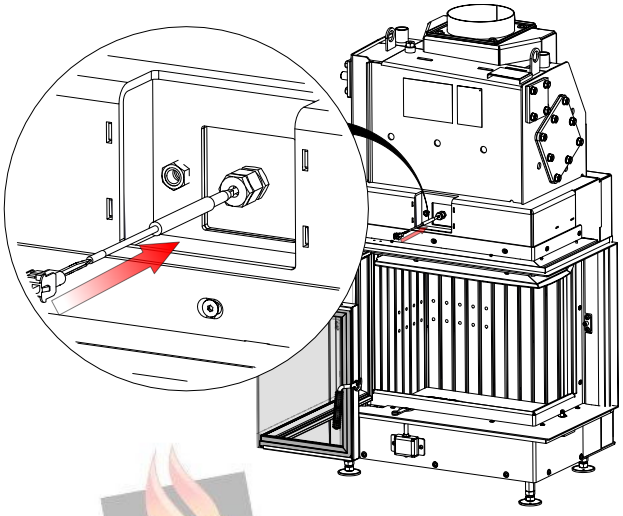
1



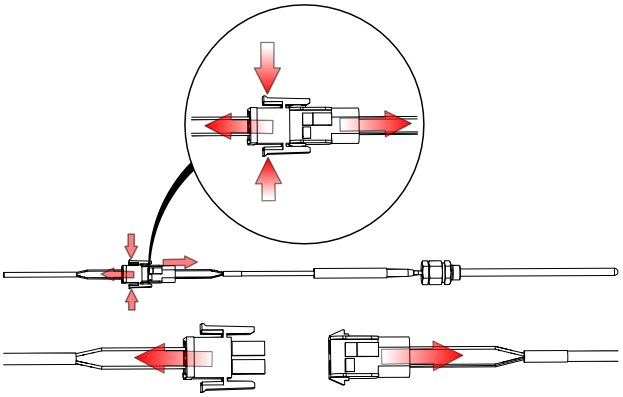
2



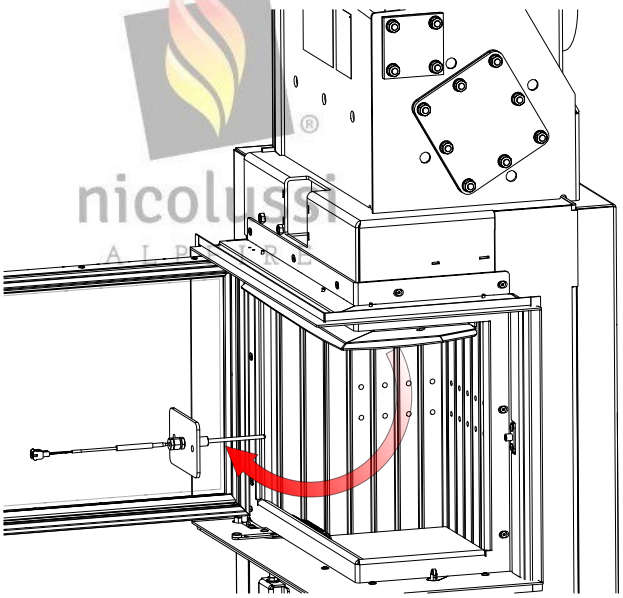
3



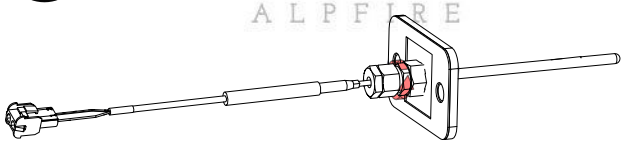
4



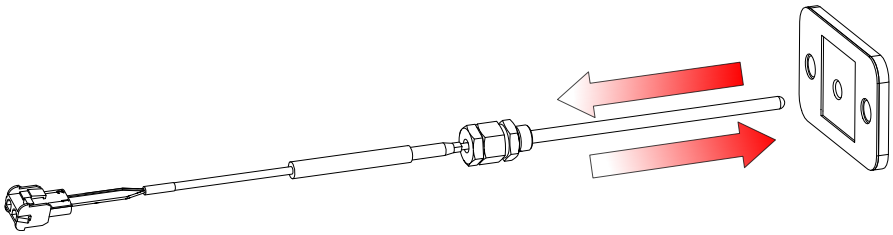
5



6



7



7→ 6 → 5 → 4 → 3 → 2 → 1

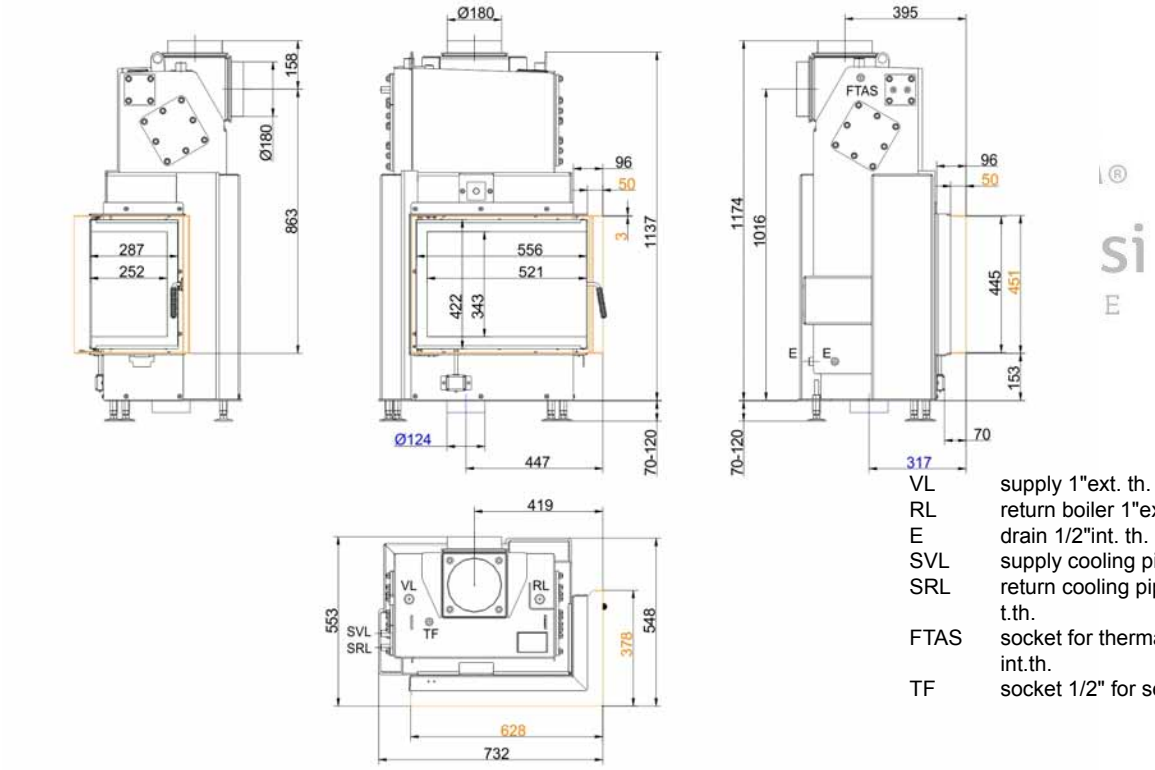
8 DIRECTIVES

The following standards and directives must be respected when setting up or using a heating system:

TROL	Stove fitting rules and regulations for warm air heating systems
FeuVo	"Feuerungsverordnung" (Fireplace Act; relevant for German Federal Lands)
EnEV	Energy Saving Regulation
LBO	Regional building codes
VDE	electronic installation instructions
	List of technical building regulations
DIN EN 12831	Calculation of the standard heating load
DIN EN 12828	Heating systems in buildings
DIN EN 14597	Temperature control devices and limiters for heat generating systems
TRD 721 oder DIN EN ISO 4126	Safety devices against excessive pressure - safety valves Safety devices against impermissible overpressure - safety valves
DIN V 18160-1	Abgasanlagen
DIN EN13384	Exhaust systems: Thermal and fluidic calculation methods - Part 1: exhaust systems with a fireplace - Part 2: exhaust systems with several fireplaces
DVGW-Worksheet W551	Technical rules for drinking water installations
In addition, it is necessary to observe the local building law and regulations for heating systems valid in your country.	

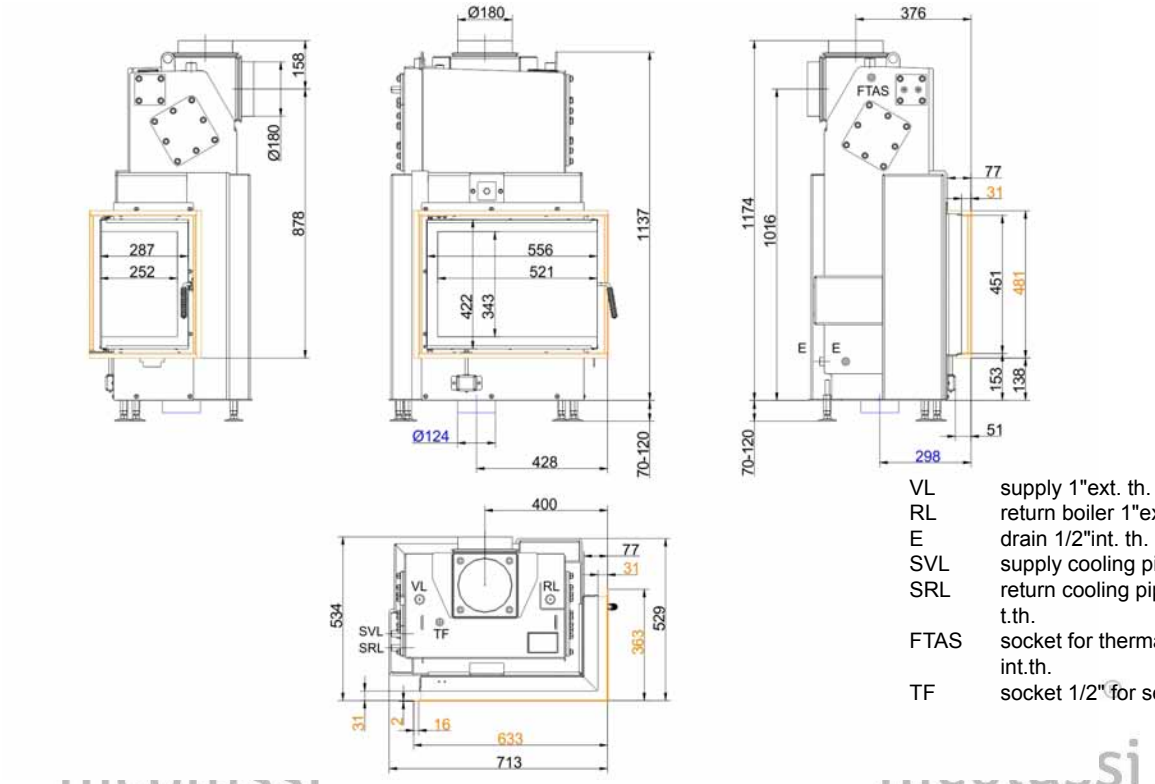
The listing does not claim to be complete!

Dimension sheets - Kamin-Kessel Eck 42/57/30 side-opening door



VL	supply 1"ext. th.
RL	return boiler 1"ext.th.
E	drain 1/2"int. th.
SVL	supply cooling pipe outlet ext.th.
SRL	return cooling pipe outlet 1/2"ex-t.th.
FTAS	socket for thermal safety sensor int.th.
TF	socket 1/2" for sensor int.th.

… right with mounting frame



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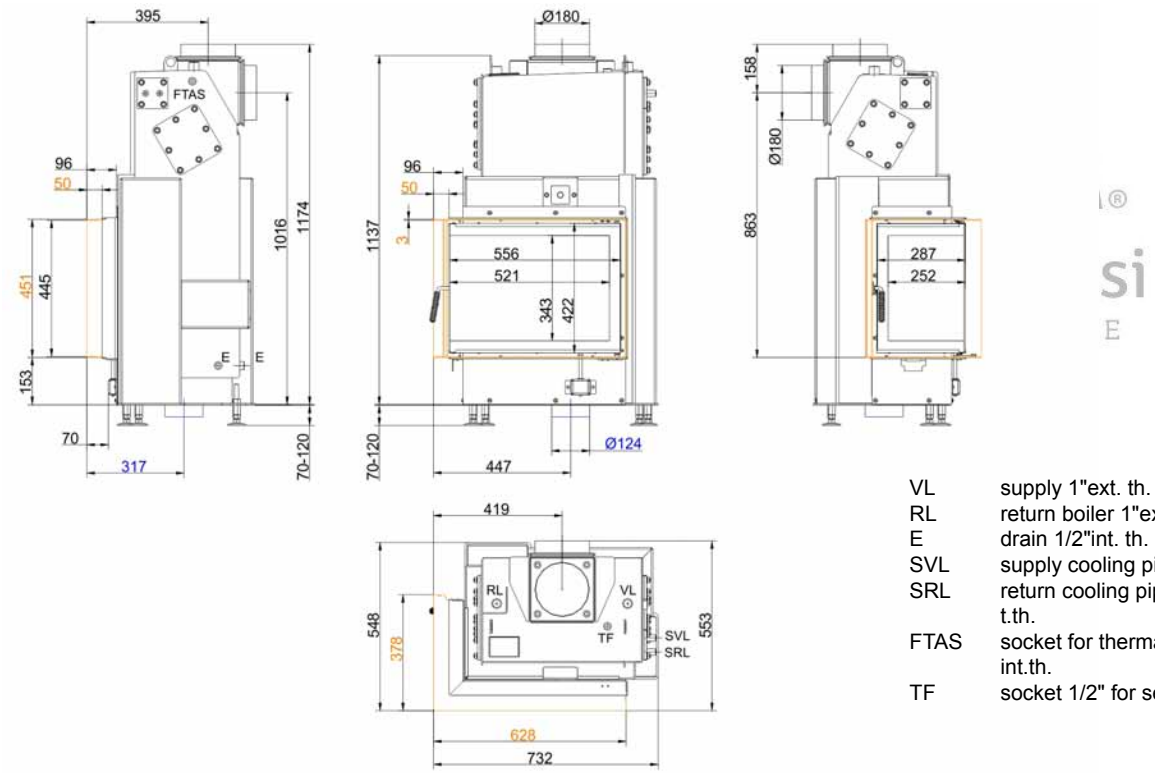
… right with door frame

Stand: 2019-07-25

Dimension sheets - Kamin-Kessel Eck 42/57/30 side-opening door



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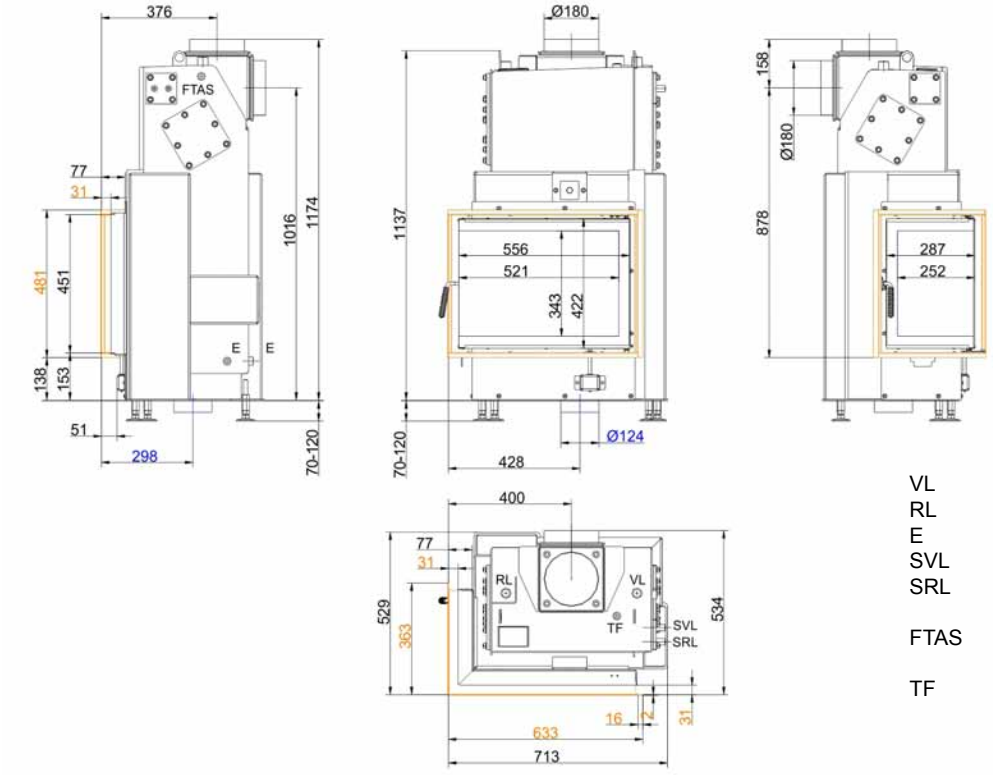
… left with mounting frame



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… left with door frame

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

Stand: 2019-07-25

Planning and installation - Kamin-Kessel Eck 42/57/30 side-opening door

Tested according to		EN 13229 W	EN 13229 W
Values measured at		Rated capacity	practical avg.
EEI		111.4	111.4
Data for functional demonstration			
Rated heat power	kW	8	-
Room heating power	kW	3.5	-
Water heating power	kW	4.5	-
Fire wood volume	kg/h	2.5	5
Combustion performance	kW	10	19
Flue gas mass flow	g/s	8	18
Flue gas temperature after:			
boiler	°C	175	220
Necessary supply pressure	Pa	12	12
Combustion air consumption	m³/h	25	45
Combustion air connection Ø	mm	125	125
Heat distribution			
Insert / reheating surface	%	10 / -	10 / -
Glass pane (single / double)	%	35 / -	35 / -
Boiler	%	55	55
Cross-section of gratings [1]			
Convection air	cm²	200 / 200 / -	200 / 200 / -
Supply air	cm²	200 / 200 / -	200 / 200 / -
Minimal distances of the fireplace			
to insulation layer	cm	6	6
to mounting floor	cm	10	10
Thermal insulation without / with air gratings [2]			
Mounting wall	cm	8	8
Floor	cm	0	0
Ceiling	cm	10	10
Brick lining for combustible wall	cm	10	10
Water boiler data			
Max. operating pressure	bar	3	3
Max. flow temperature	°C	100	100
Water volume	liter	33	33
Connections flow / return	inches	1	1
Weight			
Fireplace / combustion chamber	kg	198 / 52	
Meets requirement/limit values for:			
Germany/ Austria / Switzerland / Norway		1.BImSchV (Stufe 2) / 15a BVG (2015) / LRV / -	

1) for fireplace inserts / flue gas pipe / metallic reheating surface
2) Values determined with upper air sections; stove cladding is heat emitting

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Art.Nr.: 202024