HAAS + SOHN

Vesuvio II/10/1S – II/12/2S with exchanger

Equipment sheet
Fireplace insert with exchanger

GB

06190181514 00g

Introduction

We thank you very much for purchasing our product!

The description of the heating device will inform you in detail about the design, technical specification and operation of the heating device. We recommend you to acquaint yourselves closely with these data. In this way, you will avoid possible faults during the proper assembly and operation.

You will find detailed conditions of installation and operation in General Manual of Operation (included in the scope of the delivery).

Notes in the text

GB

Of utmost importance there are the notes entitled **WARNING**. The notes entitled **WARNING** advise you on **serious danger of damage to the heating device or of an injury.**

The note entitled **Notice** advises you on possible damage to your heating device.

The note entitled **Important** calls your attention to the information important for the operation of your heating device.

The note itself calls your attention to the information important for the operation of your heating device in general.

Contents

1. Technical data

Suitable fuel:
As concerns suitable fuel to be employed, see the chapter **2.2 Fuel** in the General Manual of Operation.

Proper operation:
As concerns the proper and safe operation of the fireplace stove, see the chapters **2. Description of the combustion process** and **5. Operating instructions** in the General Manual of Operation.

Instructions for the control of combustion process

Fuel		Output of the heating device	Quantity of fuel	Primary air	Secondary air	Tertiary air
Blockwood		100%	4,6 kg/hour (2 piece)	Easy control 100%		
		50%	2,2 kg/hour (1 piece)	Easy control 50%		

Length of wood logs: 33 cm (50 cm)

Technical data

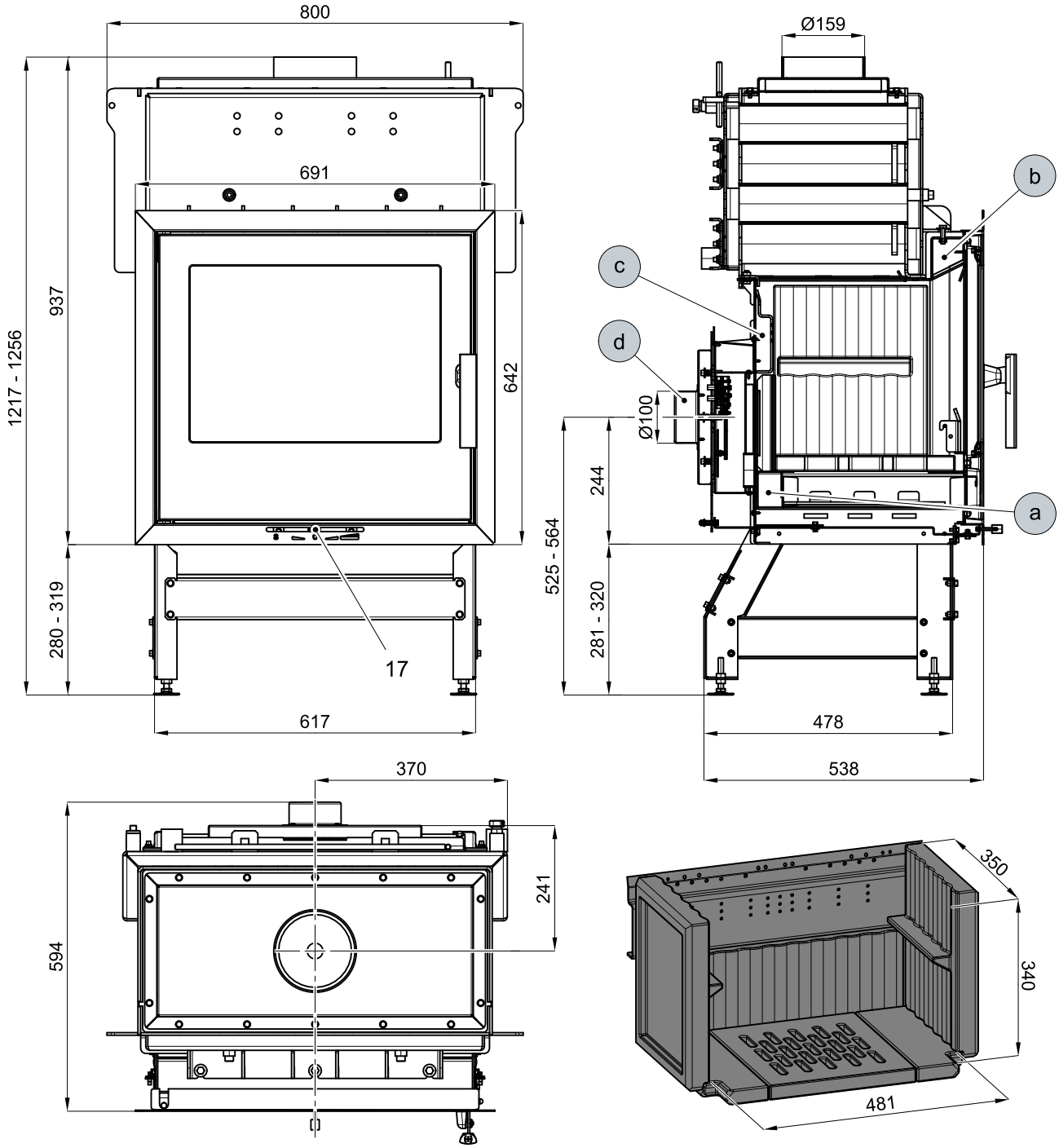
	Blockwood
Nominal heat output (1S / 2S)	15,6 kW / 15,7 kW
Reduced heat output (50%) (1S / 2S)	7,8 kW / 8,1 kW
Nominal power output for water heating (1S / 2S)	10 kW / 12,2 kW
Nominal power output delivered only by the body of the fireplace (1S / 2S)	5,6 kW / 3,5 kW
Maximum mass flow of dry combustion products	4,6 kg/h
Average temperature of combustion products behind the smoke flue neck (1S / 2S)	220 °C / 211 °C
Maximum mass flow of dry combustion products (1S / 2S)	15,8 g/s / 17 g/s
Energy efficiency (1S / 2S)	81,2 % / 81,7 %
Average concentration of CO_2 (1S / 2S)	8,4 % / 7,8 %
Concentration of CO in combustion products at 13% O_2 (1S / 2S)	750 mg/Nm^3 / 962 mg/Nm^3
Average concentration of dust at 13% O_2 (1S / 2S)	36 mg/Nm^3 / 32 mg/Nm^3
The amount of combustion air at nominal output	43 m^3/h
Tested in compliance with EN 13 229	

1S = cast iron door, 2S = door with two glasses

Technical information

Height	937 mm
Width	800 mm
Depth	594 mm
Weight	213 kg / 205 kg
Diameter of the smoke flue	160 mm
Maximum operating over-pressure of the exchanger	0,2 MPa
Water contents of the exchanger	40 l
Recommended heat gradient ($t_{output} - t_{input}$)	75 – 60 °C
Min. chimney stack draught in the smoke flue neck	12 Pa
Heating capacity (middle heat losses) at 15,7 kW	cca 280 m^3
Controllable output	7,8 – 15,7 kW

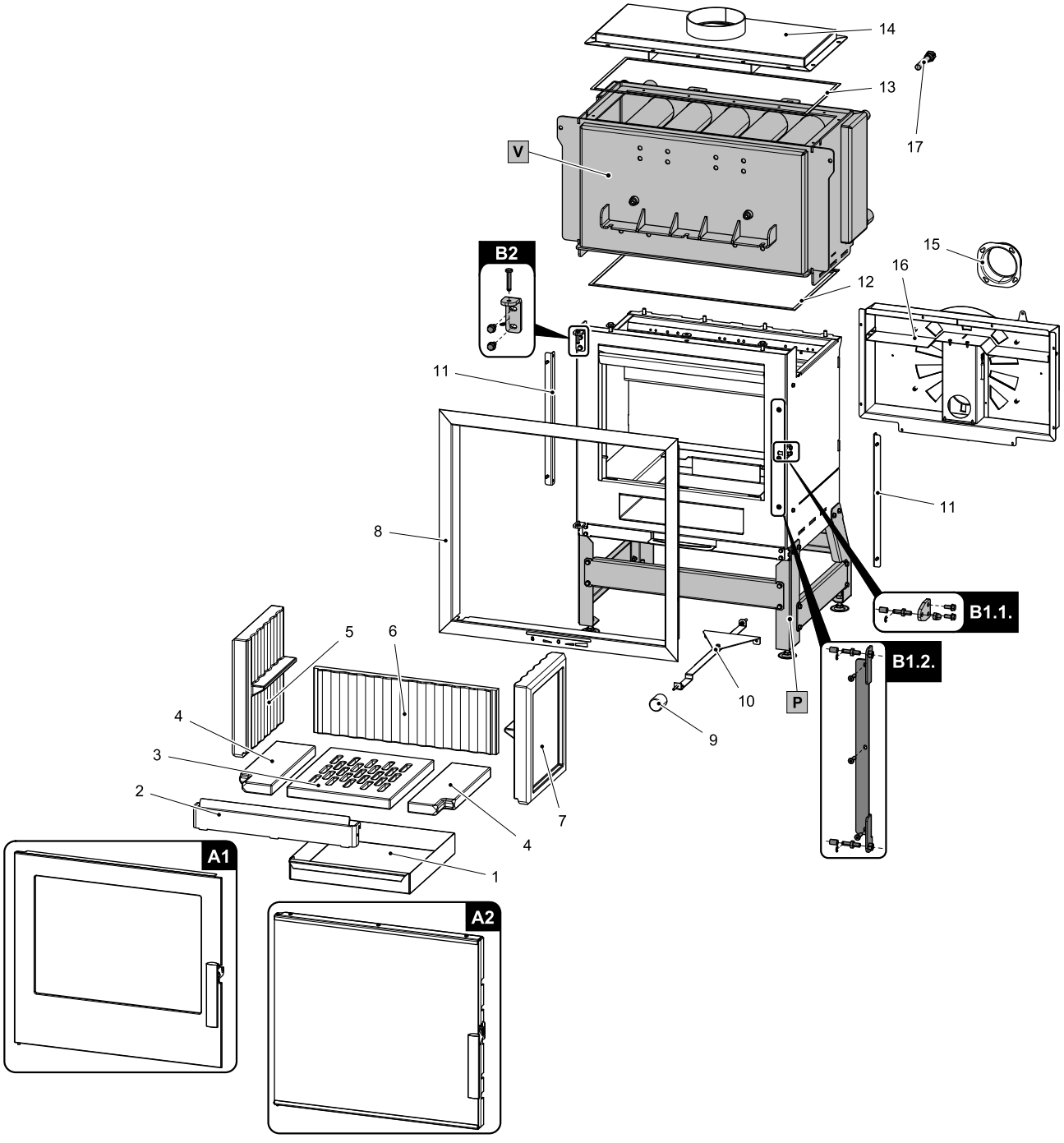
2. Technical description



Item	Name
17	Easycontrol – Controller
a	Intake of primary air
b	Intake of secondary air
c	Tertiary air output
d	External air input (Ø100)

3. List of spare parts

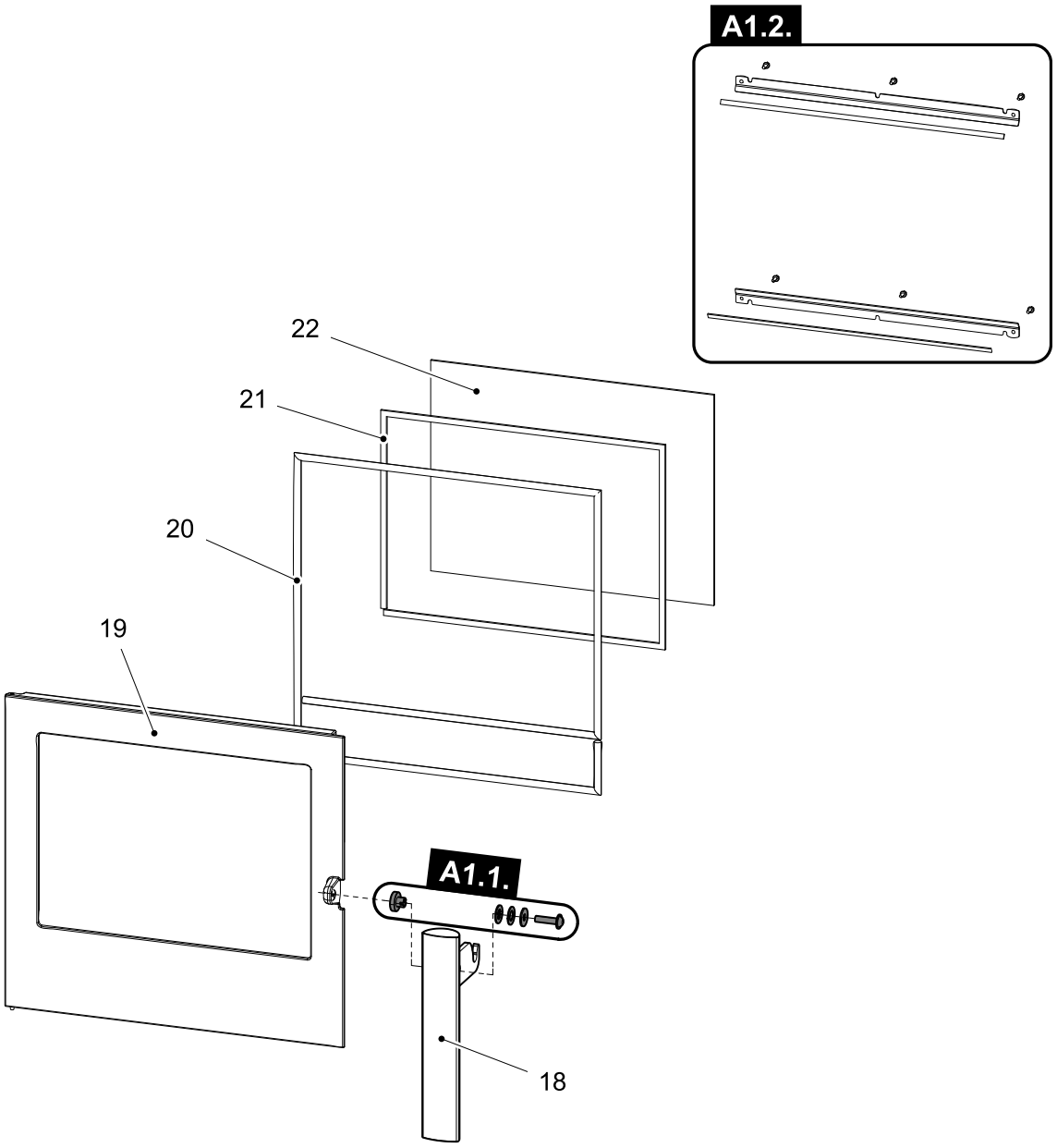
3.1. Overall scheme of the model



Overall scheme of the model			
Item	**Name**	**Quantity**	**Number of goods**
A1	Cast iron furnace door (complete)/black	1 piece	0619018155300
A2	Two-glass furnace door (complete)/black	1 piece	0619018165300
B1.1.	Door lock (complete) – door A1	1 piece	0619018165007
B1.2.	Locking bar (complete) – door A2	1 piece	0619018155017

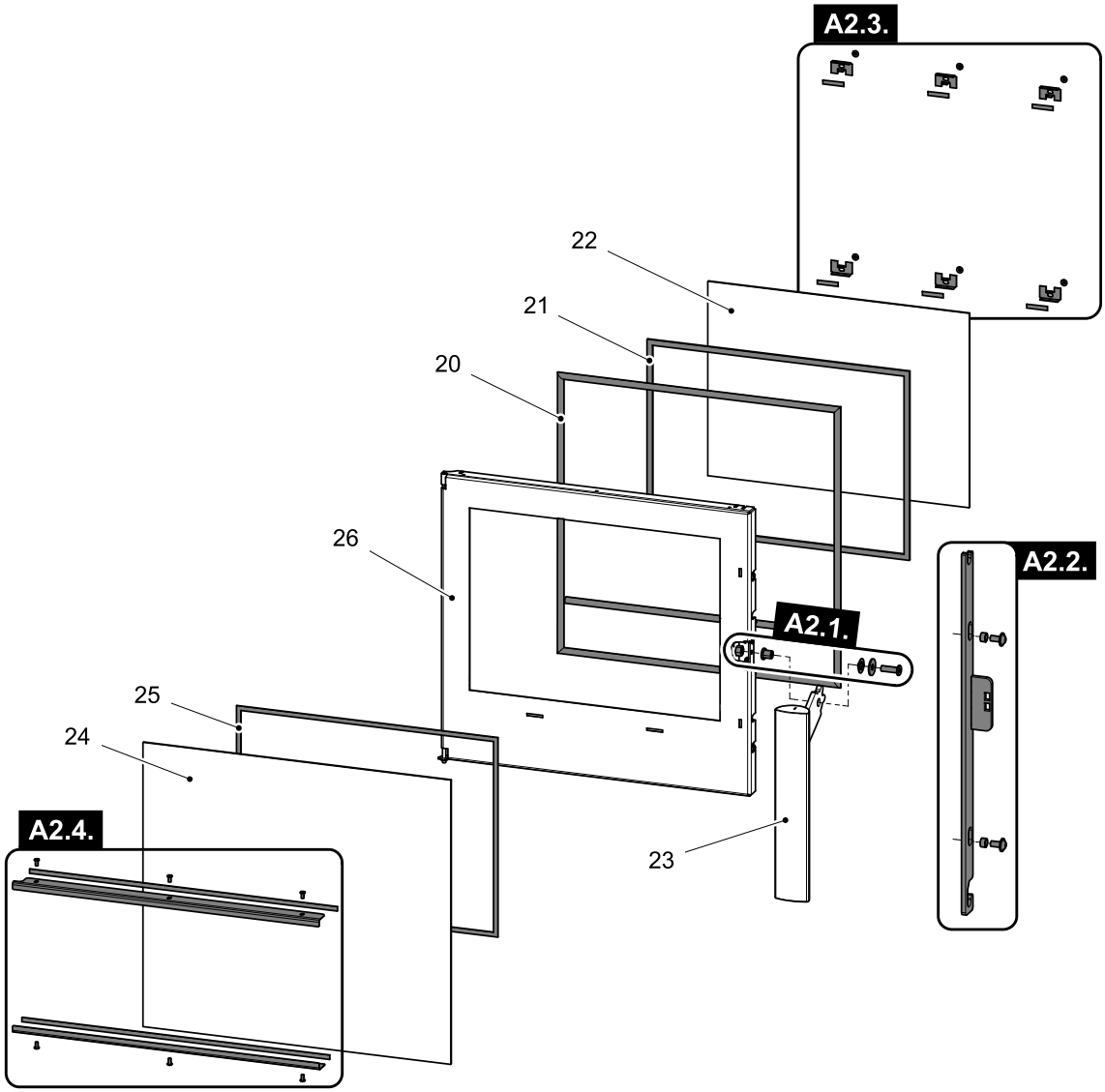
B2	Strip connecting material (complete)	1 piece	0619018155005
1	Ashpan	1 piece	0432317005600
2	Protection/black	1 piece	0619018155006
3	Fire grate made of heat resistance concrete	1 piece	0619018155552
4	Refractory lining – bottom (30x114x345)	2 piece	0619018155554
5	Refractory lining – left (85x295x342)	1 piece	0619018155551
6	Refractory lining – rear (35x185x530)	1 piece	0619018155553
7	Refractory lining – right (85x295x342)	1 piece	0619018155511
8	Frame/black	1 piece	0619018155400
9	Controller handle	1 piece	0420915005625
10	Control drawbar/black	1 piece	0619018155610
11	Frame lining/black	2 piece	0619018155404
12	Sealing cord of the exchanger 10x4 mm	3600 mm	0040210040005
13	Sealing cord of the exchanger cover 10x4 mm	1800 mm	0040210040005
14	Exchanger cover/black	1 piece	0619018155030
15	External air input (Ø100)	1 piece	0088500050008
16	Air module	1 piece	0619018155500
17	Sensor holder	1 piece	0431317006050
P	Base (optional accessory)	1 piece	0619018151300
V	Exchanger/black	1 piece	0619018206050

3.2. Detail A1



Detail A1			
Item	**Name**	**Quantity**	**Number of goods**
A1.1. + 18	Fire-box door lever lock (complete) + handle connecting material – set	1 piece	0420114017301
A1.2.	Glass holder – set/black	1 piece	0619018155303
19	Cast iron furnace door/black	1 piece	0619018155301
20	Door sealing cord 10 mm	2600 mm	0040300100005
21	Glass sealing cord 10x4 mm	1700 mm	0040210040005
22	Refractory glass (4x370x501)	1 piece	0619018155302

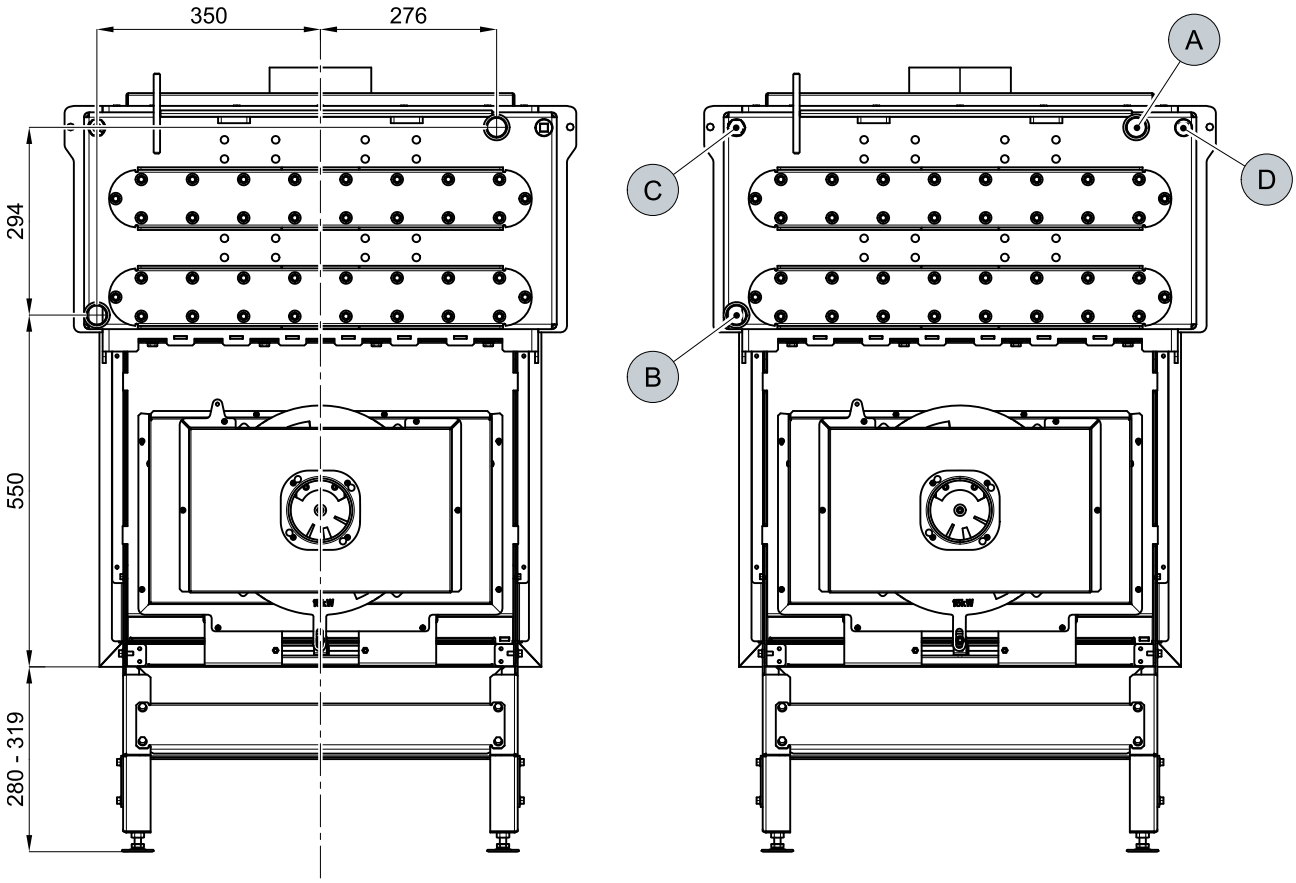
3.3. Detail A2



Detail A2			
Item	**Name**	**Quantity**	**Number of goods**
A2.1. + 23	Fire-box door lever lock (complete) + handle connecting material – set	1 piece	0434715007320
A2.2.	Closing mechanism drawbar – set	1 piece	0619015005325
A2.3.	Glass holder 1 – set/black	1 piece	0619018155304
A2.4.	Glass holder 2 – set/black	1 piece	0619018165207
20	Door sealing cord 12 mm	2600 mm	0041012120005
21	Glass sealing cord 10x4 mm	1700 mm	0040210040005
22	Refractory glass (4x370x501)	1 piece	0619018155302
24	Glass with printing (4x542x590)	1 piece	0619018155312
25	Glass with printing sealing cord 6 mm	1800 mm	0040406000006
26	Fire-box door (welded part)/black	1 piece	0619018165200

4. Connection of the exchanger

4.1. Option without a cooling loop

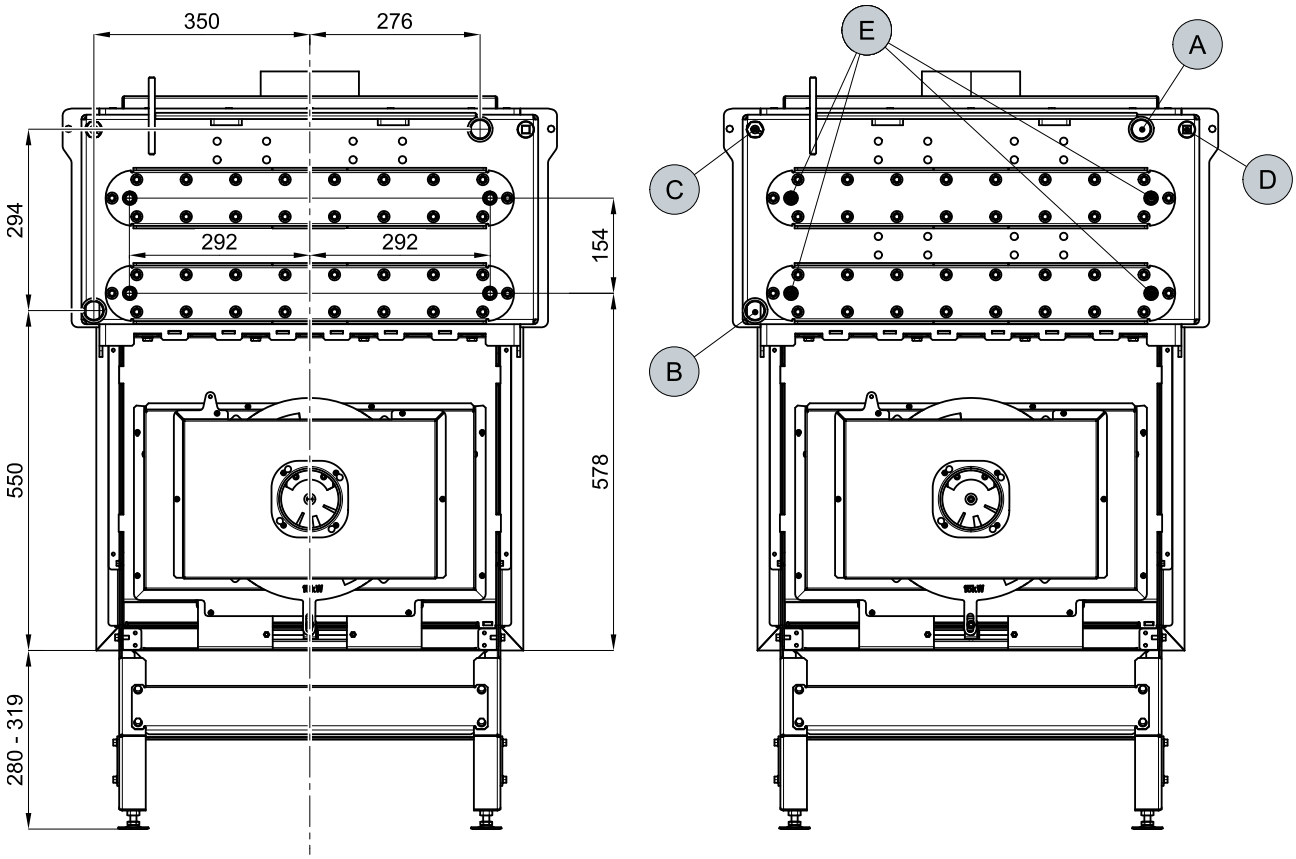


Item	Name
A	Outlet of heating water (inside thread G1")
B	Intake of return water (inside thread G1")
C	Opening with a thermostatic sensor holder (inside thread G1/2")/circulation pump
D	Hole for thermostatic sensor cup (inside thread G1/2")/cooling loop

4.2. Option with a cooling loop

CAUTION

Both cooling loops must be connected!



Item	Name
A	Outlet of heating water (inside thread G1")
B	Intake of return water (inside thread G1")
C	Opening with a thermostatic sensor holder (inside thread G1/2")/circulation pump
D	Hole for thermostatic sensor cup (inside thread G1/2")/cooling loop
E	Cooling loop inputs/outputs (outside thread G1/2")

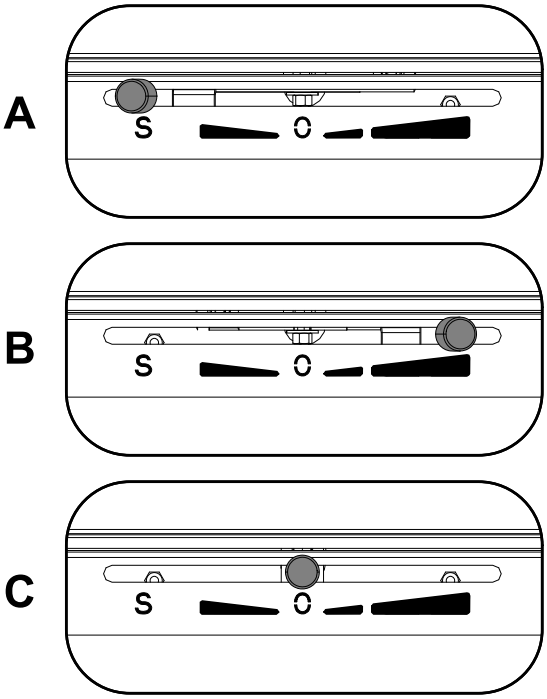
5. Easy control

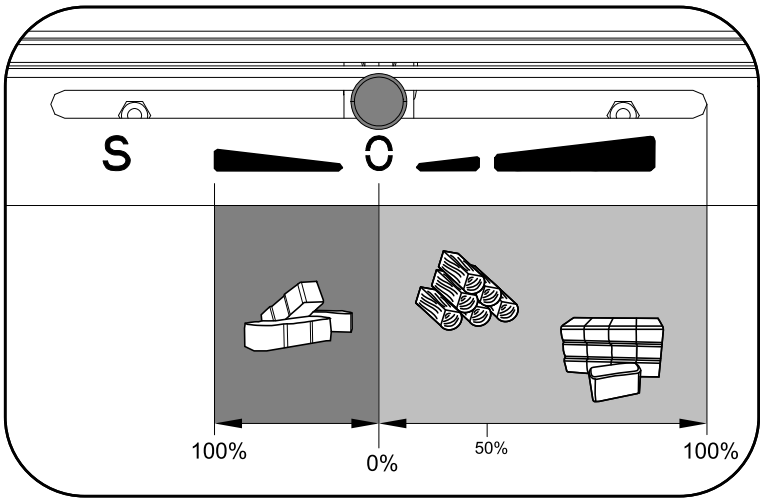
Control of all three air inputs (primary, secondary, tertiary) by means of one sole controller.

1. The controller is in the position intended for ignition (fig. A). All three air inputs are open (primary, secondary, tertiary).
2. The controller is in the position intended for burning of the stove after ignition (fig. B).
3. The controller is in the position designed to close air inputs (Fig. C). No input is open (primary, secondary, tertiary). This position is used only when the stove is out of operation, after finishing the heating process.

WARNING

Air inputs may not be closed during the heating operation (Fig. C)! In an extreme case, there can occur an explosion in the stove followed by breaking of glass, blowing up of cinders across the room and breaking out of the fire.

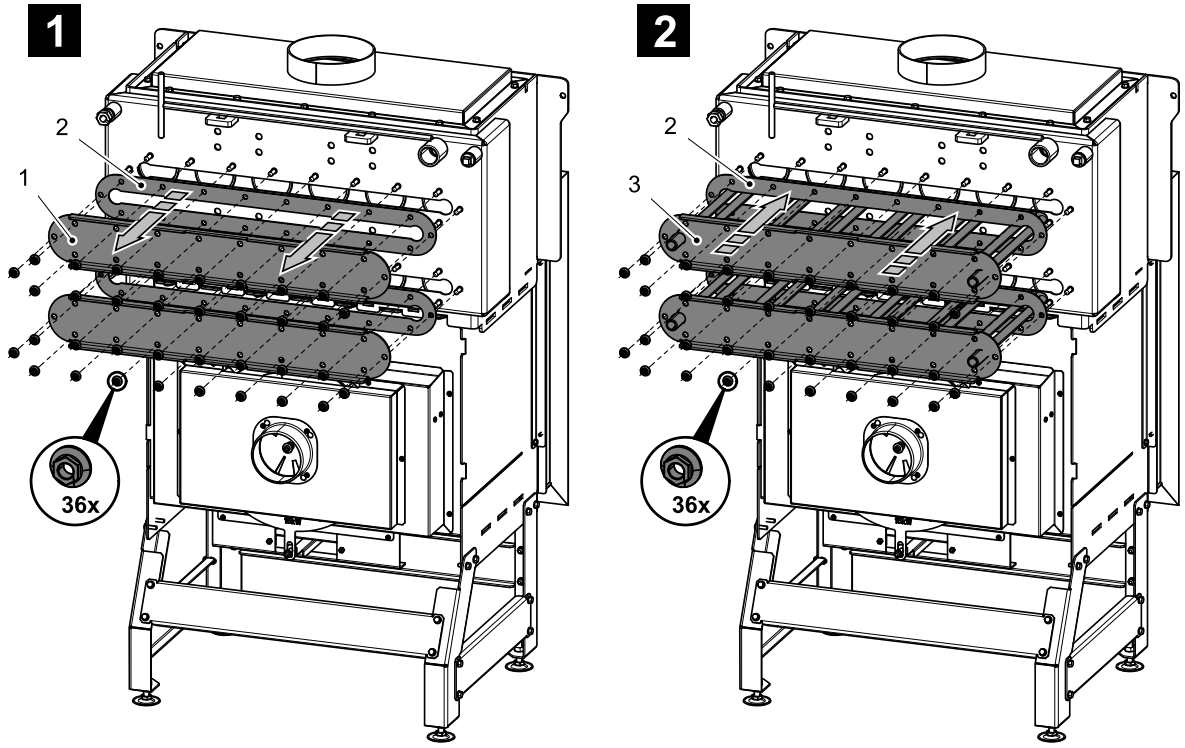




6. Installation of the coolant loop

IMPORTANT

The cooling loop is supplied as a special accessory.



Item	Name	Number of goods
1	Loop cover/black	0619018305021
2	Sealing	0619018305013
3	Coolant loop	0619018156017

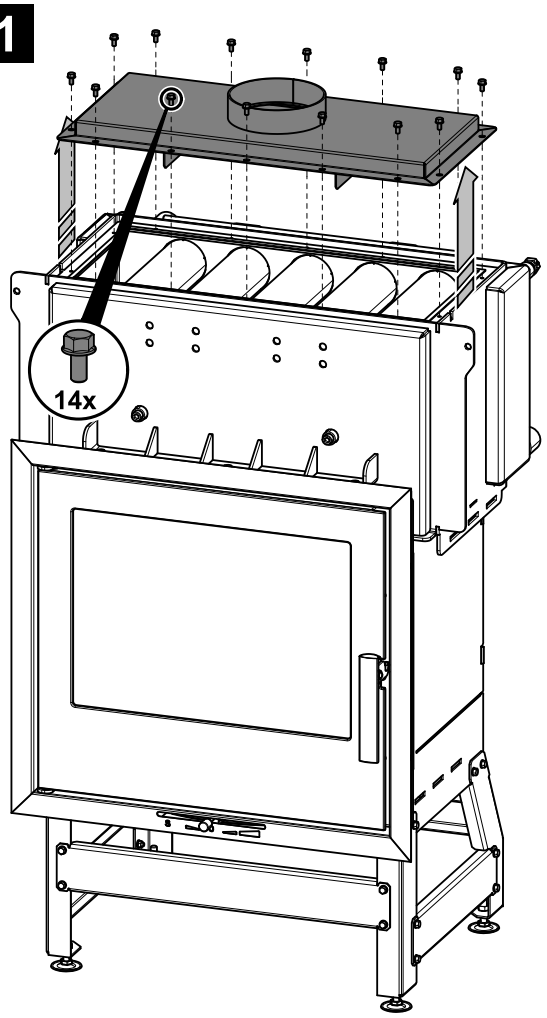
7. Instructions for cleaning of the exchanger

7.1. Long-time cleaning of the exchanger

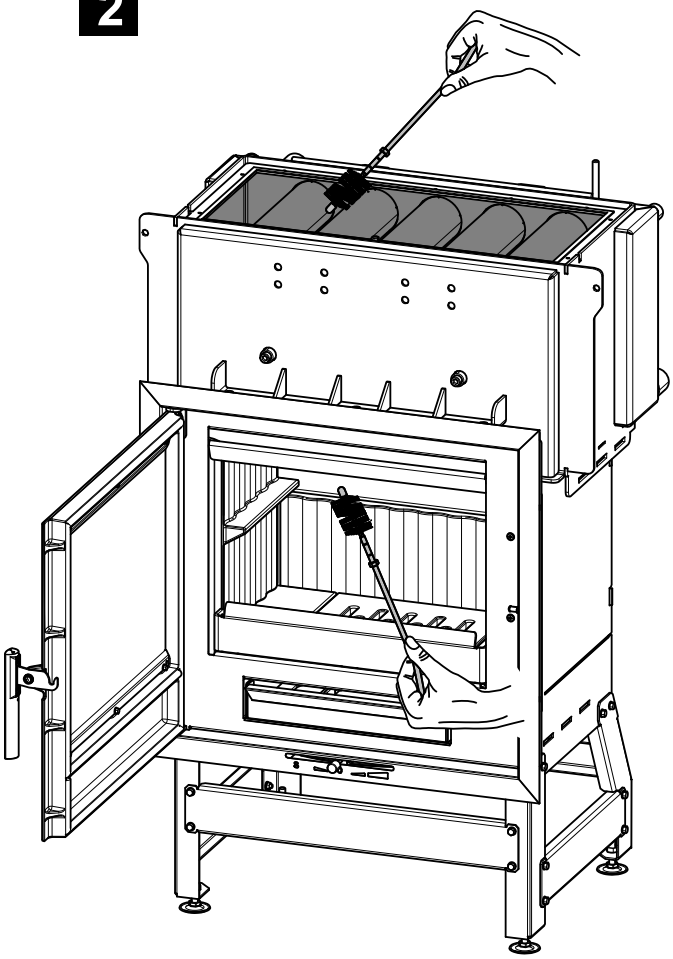
CAUTION

Cleaning of the exchanger should be done from above after removal of the exchanger cover or from the bottom of the furnace, at least once a year (e.g. before the heating season).

1



2

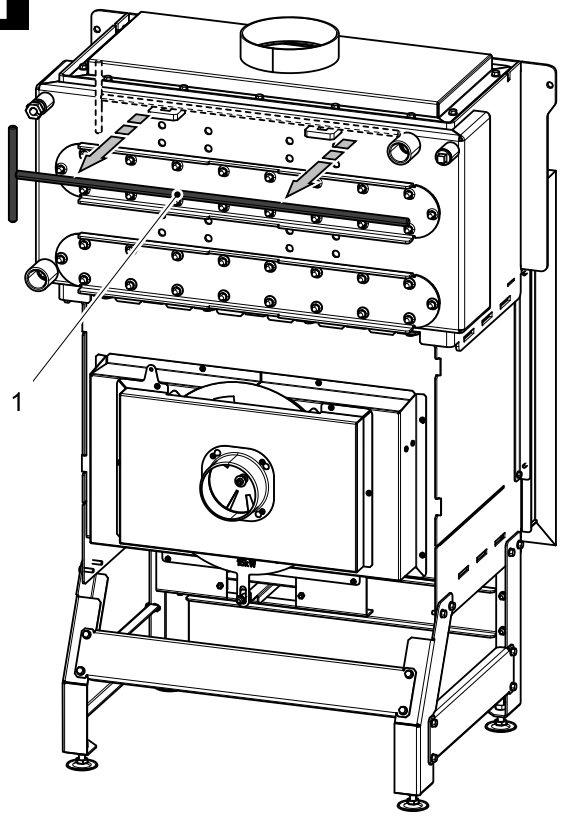


7.2. Short-time cleaning of the exchanger

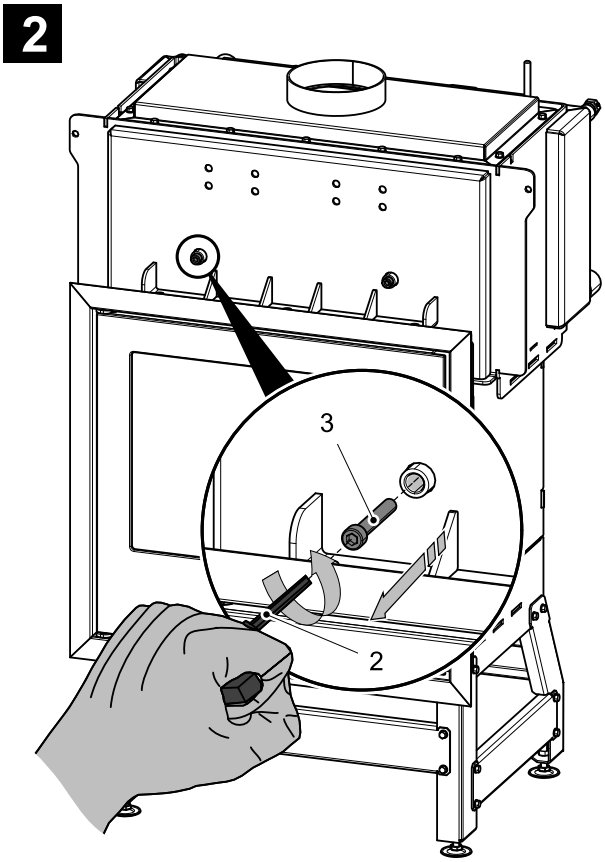
IMPORTANT

It is recommended to clean the surfaces with the wiper blades (Item 4, Fig. 4) at least once a week, or even more frequently depending on how often the furnace is used.
Follow the procedure in Fig. 2-4 with the second wiper blade too!

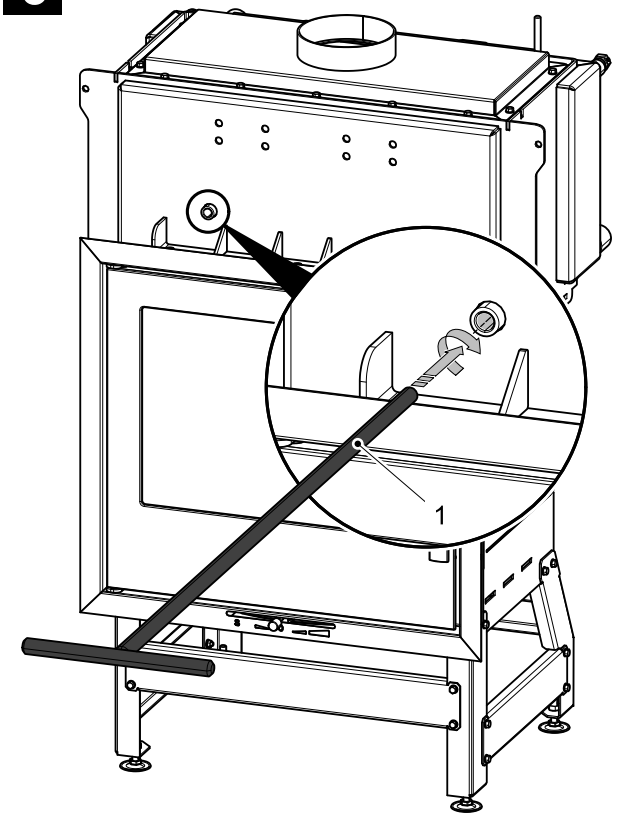
1



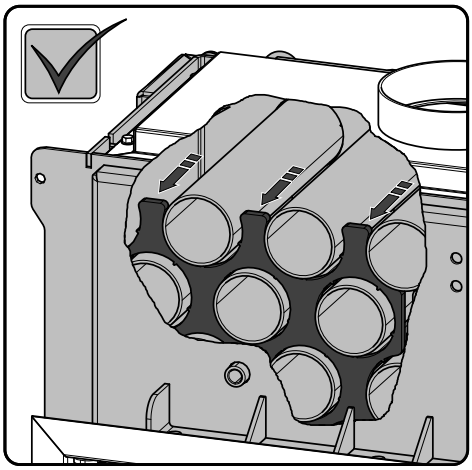
2

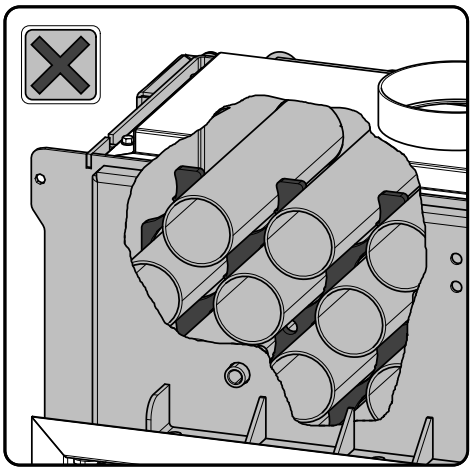


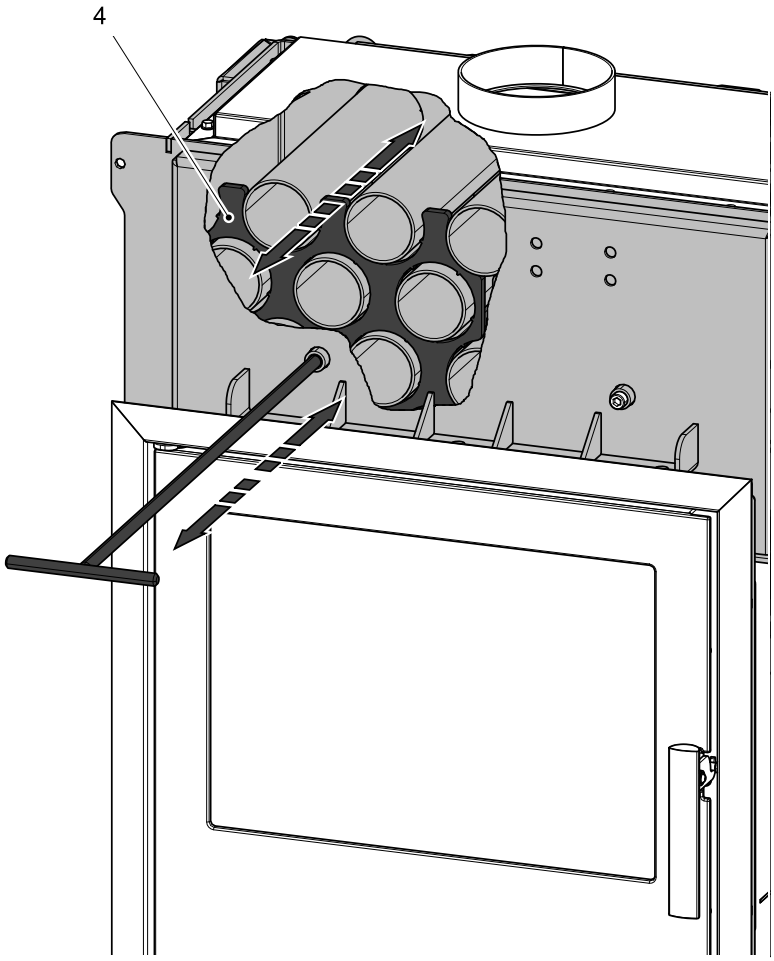
3



4







Item	Name	Number of goods
1	Drawbar of the cleaning/black	0433317005063
2	Allen wrench 8 mm (forms part of the delivery)	9001700085002
3	Screw M10x70 (DIN 912)	0030031000705
4	Wiping blade	–