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SOHN

## HSP 6 537.08–WT RLU/PGI

**Equipment sheet**  
Pellet stove with heat exchanger

**GB**

# Notes in the text



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

<b>1. Technical data</b> .....	1
<b>2. Dimensions</b> .....	2
2.1. Dimensions .....	2
2.2. Connection of the exchanger .....	3
<b>3. Cleaning work</b> .....	4
3.1. Cleaning the surface .....	4
3.2. Cleaning the glass panel .....	4
3.3. Clean combustion chamber “function instruction” Error F040.....	4
3.4. Cleaning the combustion pot - weekly .....	4
<b>4. Maintenance work</b> .....	6
4.1. Cleaning of the ash pan - once a week.....	6
4.2. Cleaning of the exchanger - once a week .....	8
4.2.1. Vertical cleaning of the exchanger .....	8
4.2.2. Horizontal cleaning of the conduits of combustion products .....	9
4.3. Cleaning of the exchanger.....	13
4.4. Cleaning the pellet container - annual maintenance .....	16
<b>5. Replacement parts list</b> .....	17
5.1. Replacement parts list HSP 6 537.08–WT RLU/PGI (without trim parts).....	17
5.2. Detail A1 .....	20
5.3. Replacement parts list HSP 6 537.08–WT RLU/PGI .....	21
<b>6. Circuit diagram</b> .....	22



# 1. Technical data

	HSP 6 537.08–WT RLU/PGI
Heat output range:	2,7 – 10 kW
Nominal heat output:	10 kW
Output delivered by the stove body only (NO/PO):	2,1/0,2 kW
Output available for heating of water (NO/PO):	7,9/2,5 kW
Height:	1200 mm
Width:	545 mm
Depth:	498 mm
Weight:	174 kg
Diameter of flue elbow:	80 mm
Flue gas temperature:	148 °C
Testing transport pressure at nominal output:	12 Pa
Testing transport pressure at partial output:	5 Pa
Flue gas flow rate in g/s	6,1 g/s
CO level in flue gas (%) (min./max.)	0,01/0,03 %
Efficiency (NO/PO):	94/98 %
CO level in flue gas:	150 mg/Nm <sup>3</sup>
NOx level in flue gas:	102 mg/Nm <sup>3</sup>
OGC level in flue gas:	<5 mg/Nm <sup>3</sup>
Proportion of dust in flue gas:	20 mg/Nm <sup>3</sup>
Contents of storage container (pellet tank):	about 32 kg
Duration of burn with one charge (min./max.):	about 15 h/60 h
Permitted fuel: Low-dust wood pellets	diameter: 6 mm
to Ö-Norm M 7135, DIN plus, EN plus-A1	length: max. 30 mm
Room heating capacity to DIN 18893, constant heating:	340m <sup>3</sup> /220m <sup>3</sup> /130m <sup>3</sup>
Room heating capacity to DIN 18893, timed heating:	225m <sup>3</sup> /132m <sup>3</sup> /90m <sup>3</sup>
Electricity supply:	230 V (50 Hz)
Electricity supply input:	
in normal operation:	max. 85 W
Electric ignition (for max. 15 minutes on ignition):	max. 660 W
Electronics fuses: (F3)	T 0,315 A, 250 V
Fuses for the ignition, screw conveyor motor, induced draught, (F1), pump (F2)	T 3,15 A, 250 V
Maximum operating over-pressure of the exchanger:	200 kPa (2 bar)
Water contents of the exchanger:	30 l
Nominal flow rate:	315 l/h
Pressure loss at nominal flow rate:	130 mbar

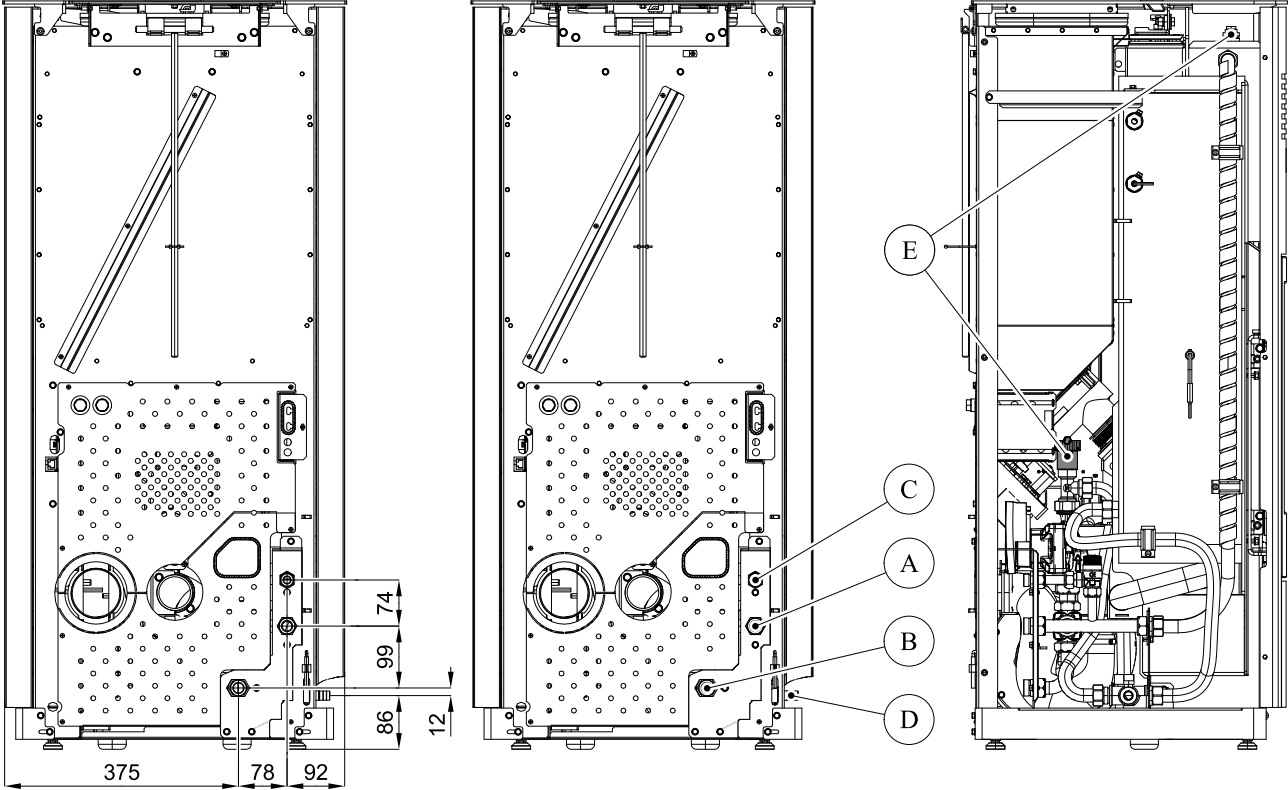
## Safety distances

Minimal distances from flammable materials:	side:	10 cm
	rear:	5 cm
	front (radiation area):	80 cm

# 2. Dimensions

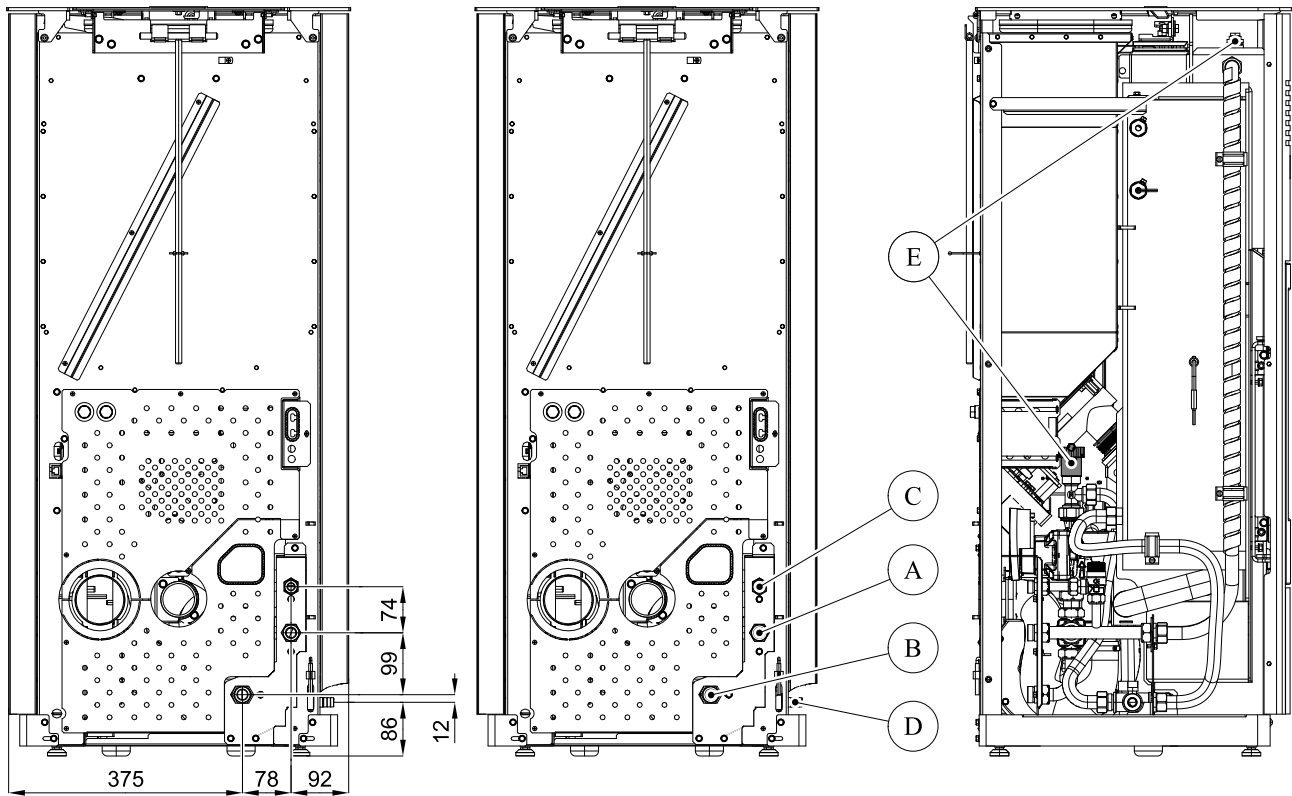
## 2.1. Dimensions

Dimensions



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## 2.2. Connection of the exchanger



Item	Name
A	Heating water output (outside thread G3/4")
B	Return water intake (outside thread G3/4")
C	Outlet of the safety valve (outside thread G1/2")
D	Filling of the circulation system
E	Venting valve

# 3. Cleaning work



## WARNING

Before starting any cleaning work, the stove must be cool down!

Once the cleaning work is completed, the correct operating status of the device must be re-established: Put the combustion pot in correctly, close the combustion chamber door.

### 3.1. Cleaning the surface

Dirt on the upper surface of the stove may be cleaned off with a damp cloth or if necessary with mild soapy water. You are advised against using corrosive cleaning agents and solvents since these might damage the surfaces.

### 3.2. Cleaning the glass panel

To clean the viewing panel, you must first open the stove door. Dirt on the glass panel can be removed with a glass cleaner or with a damp sponge on which you have sprinkled some of the wood ash present. (Environmentally friendly). Cleaning the glass panel may only be done with a cooled down stove in the OFF operating mode.

### 3.3. Clean combustion chamber “function instruction” Error F040

- The whole combustion space must be cleaned after **30-hours operation at the latest, or once a week**.
- The requirement to clean the fire-box (flickering of the display) appears during heating, in case that the cleaning interval has elapsed.
- After the fire-box has been cleaned, the error message "Clean the fire-box" will be confirmed automatically. The condition for automatic confirmation of this error message is that the fire-box door is opened for more than **60 seconds**. This time is necessary for careful cleaning of the fore-box, including the burner.
- This reset of the operating hours counter occurs even if the cleaning of the combustion chamber is performed before the 30 operating hours have run provided that the stove is in “Off” operating status and the door is open for longer than 60 seconds during cleaning.

### 3.4. Cleaning the combustion pot - weekly

During operation, deposits may form in the combustion pot. How quickly the combustion pot becomes dirty depends solely on fuel quality. The deposits or encrustations must be removed from time to time.





## **WARNING**

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If this is not done, the clinker will continue to accumulate. Then the device will no longer be able to ignite properly. Pellets can pile up in the combustion pot. In extreme cases, this can reach all the way back to the pellet chute. Backfire in the pellet container and smouldering in the pellet tank might possibly result.

**This will destroy your device and is not covered in your guarantee.**

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## **WARNING**

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**Cleaning the combustion pot may only be done with a cooled down stove in “OFF” operating mode. Otherwise there is a risk of burns!**

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- Take out the burner bowl from the stove.
- Remove the remains of ashes and slag.
- After the cleaning, mount the burner bowl back to its proper position on the burner rest.
- Re-check the proper seating of the burner bowl, in order to avoid any lack of tightness.

# 4. Maintenance work



## **WARNING**

Before starting any cleaning work, the stove must be cool down! The mains plug must be pulled out of the power supply socket (always in advance)!

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## **WARNING**

Devices that are not maintained in accordance with our specifications must not be operated. Failure to observe this point will invalidate all guarantee claims.

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## 4.1. Cleaning of the ash pan - once a week

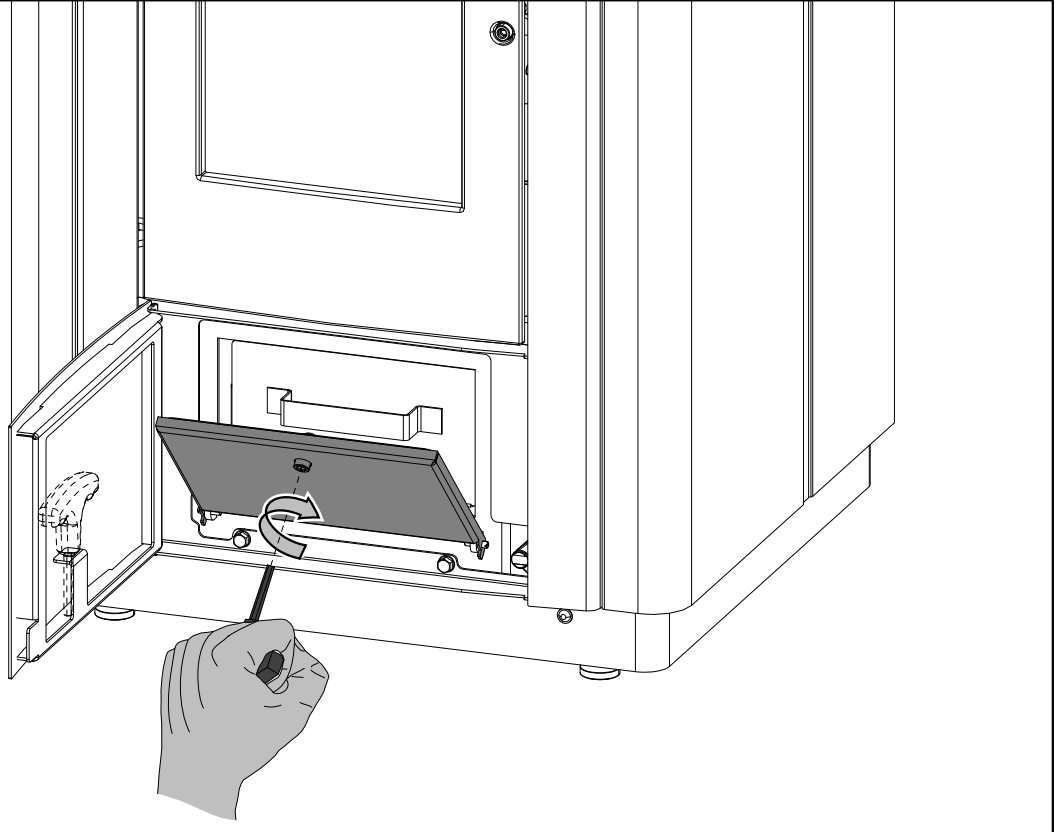


## **WARNING**

The frequency of maintenance in turn depends to a large extent on the pellet quality (ash content). Quality pellets have a low ash content of about 0.2-0.3%. However, if the ash content is higher (0.5% and over), the interval from maintenance to maintenance is reduced and the accumulation of ash increases by 2 or 3 times.

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1



2

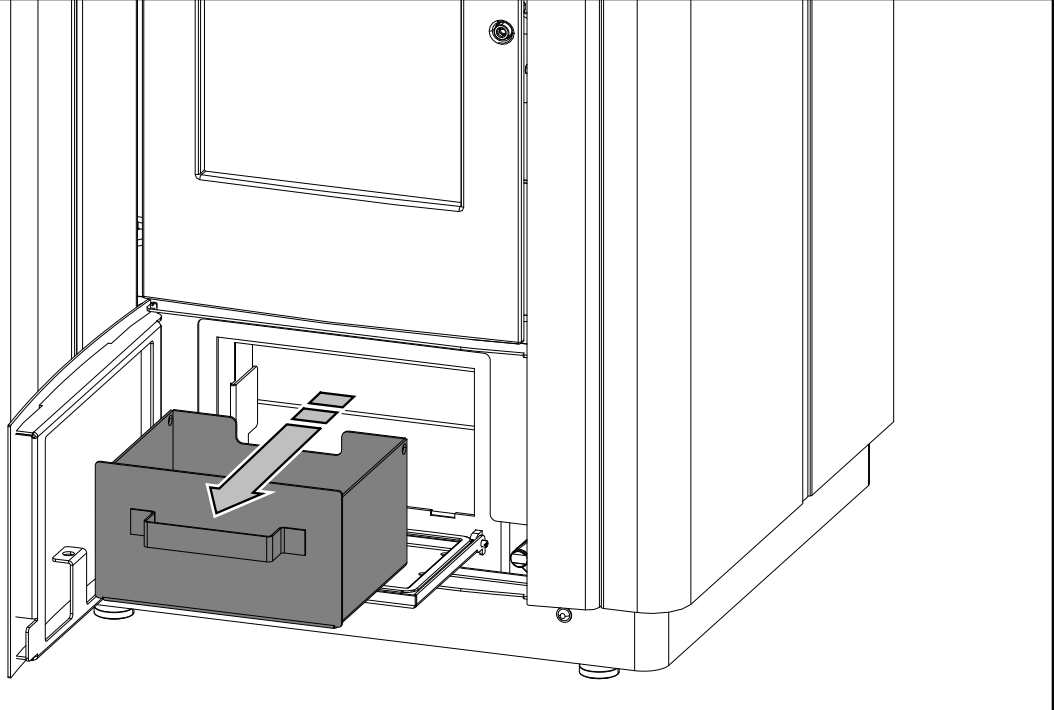


Figure 1

## 4.2. Cleaning of the exchanger - once a week



### CAUTION

We recommend you to clean the conduits of combustion products and the exchanger once in a week.

Please perform the short-time cleaning in two steps:

### 4.2.1. Vertical cleaning of the exchanger

- For the purposes of vertical cleaning, move the cleaning lever 5 times at least, in compliance with the Fig. 2.

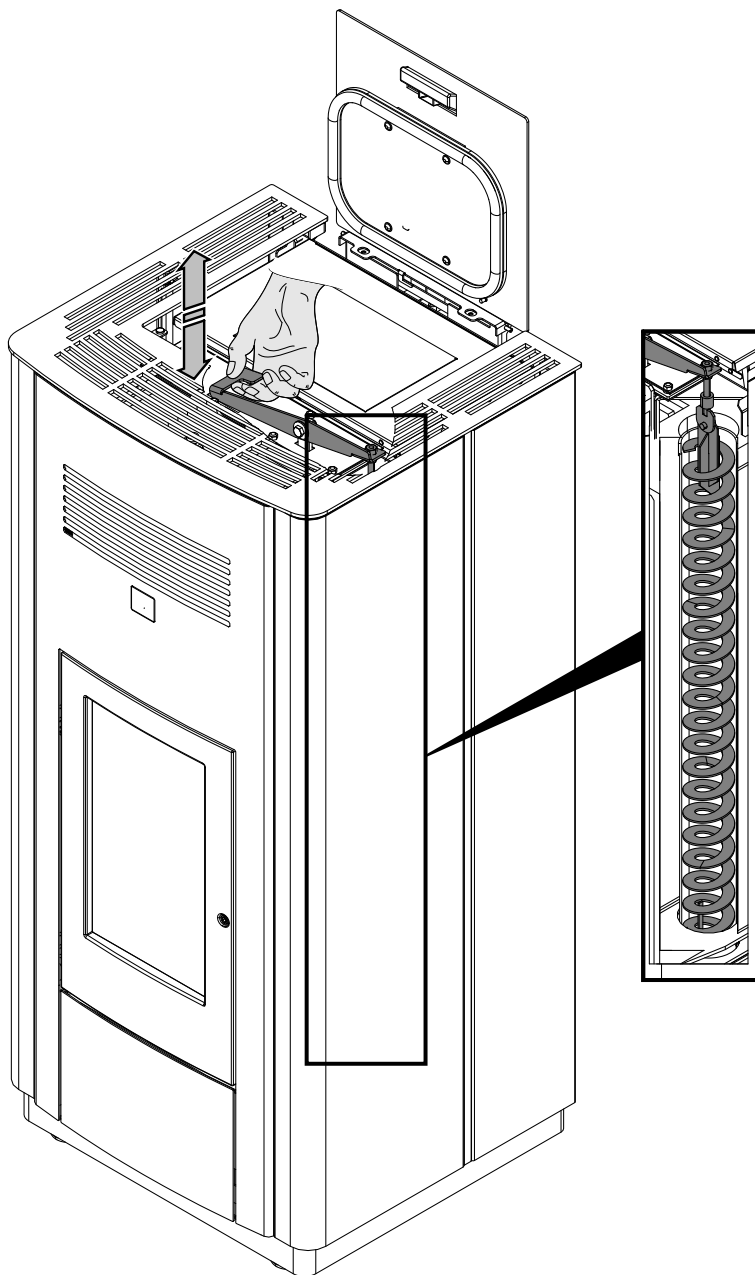
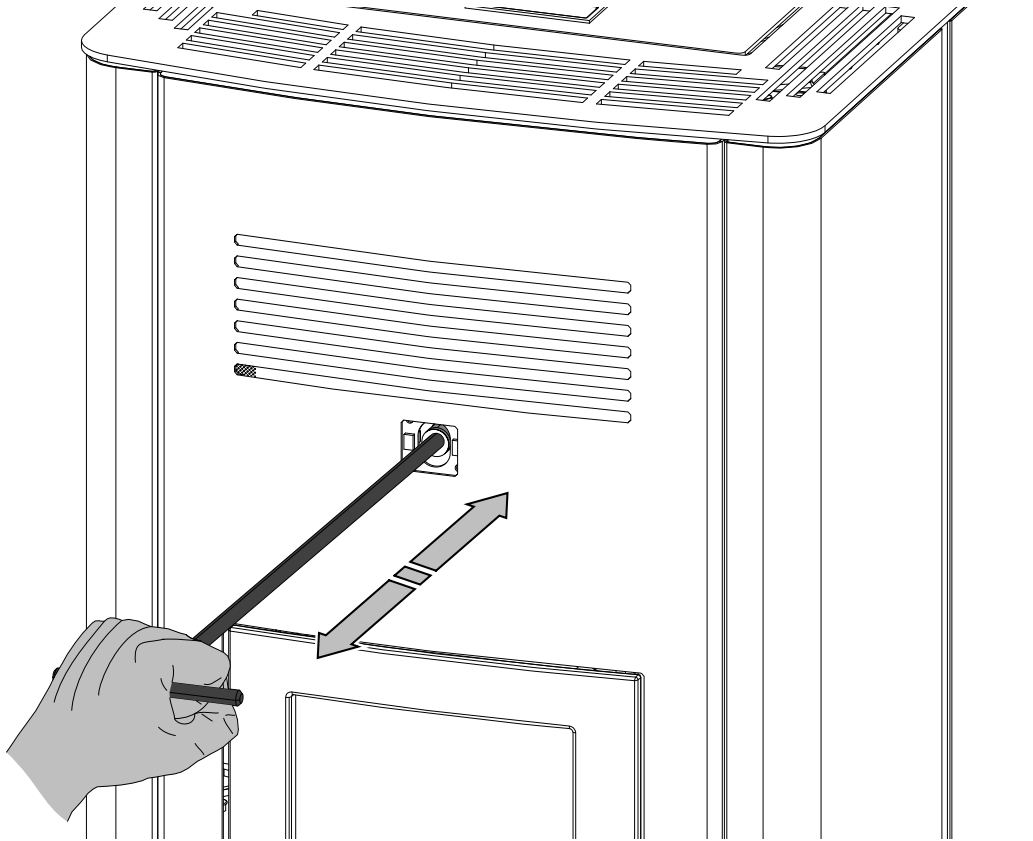


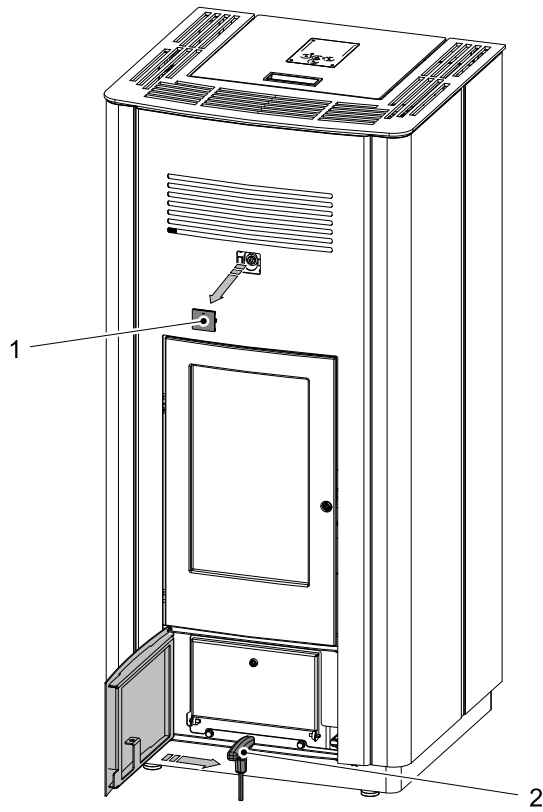
Figure 2

## 4.2.2. Horizontal cleaning of the conduits of combustion products

- Get the cleaning bar from the rear cover of the stove. Next, remove the cover plug and dismount the screw M10x70 by means of an Allen wrench, located behind the ash-pan door. After having finished the cleaning by means of the blade, mount the screw and fit the cover plug to their places again. (see Fig. 3a-3c).



1



2

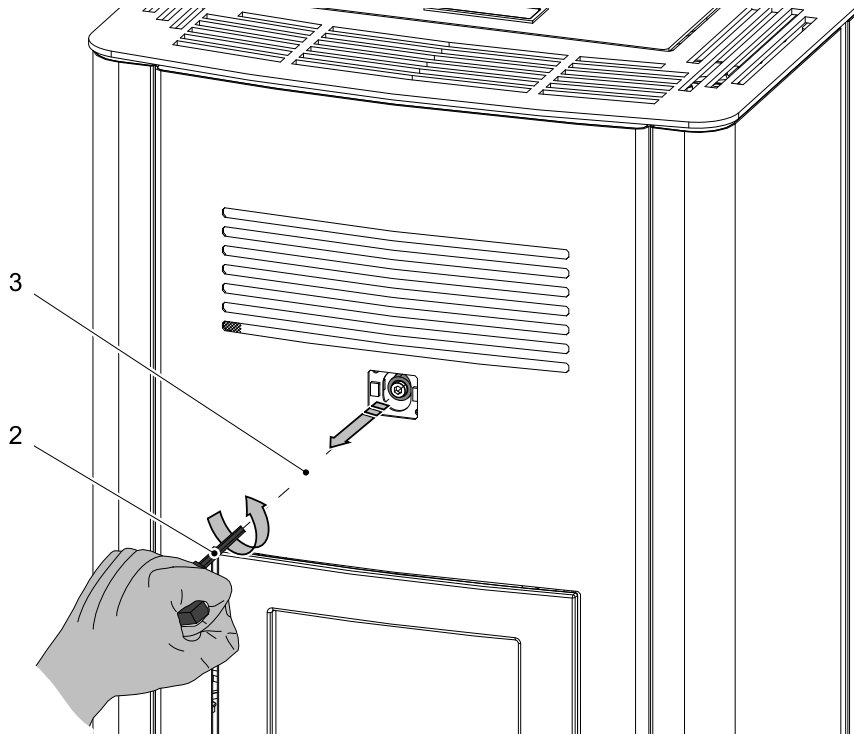
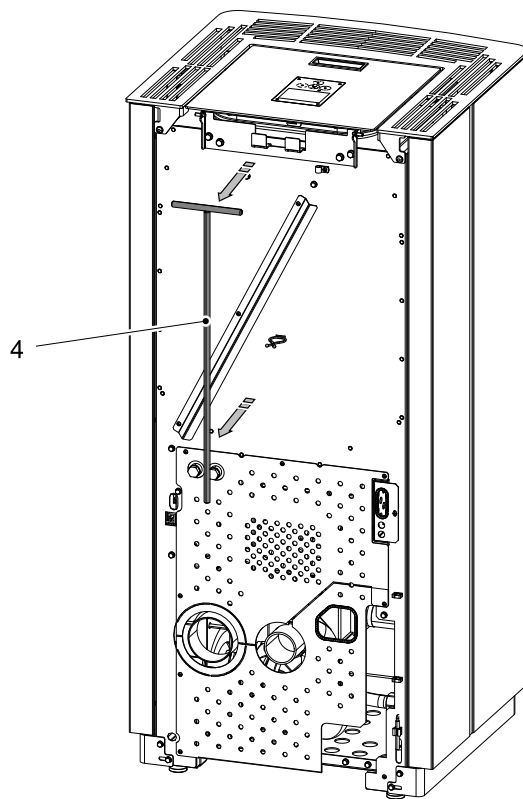


Figure 3a

3



4

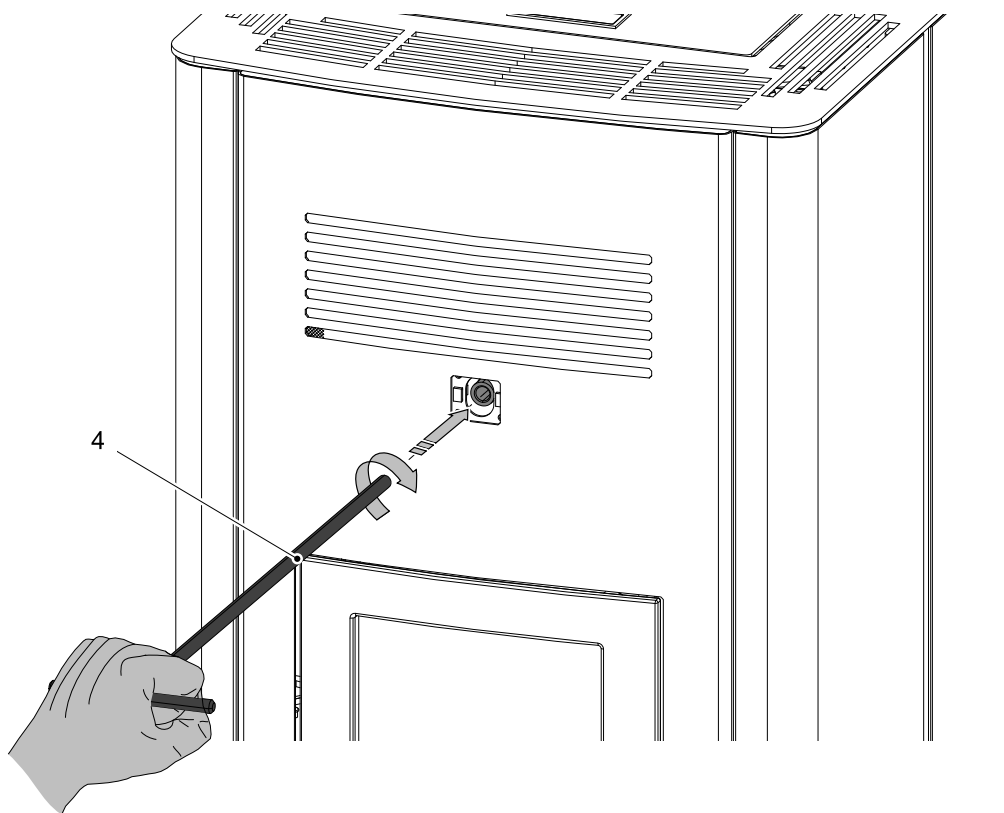
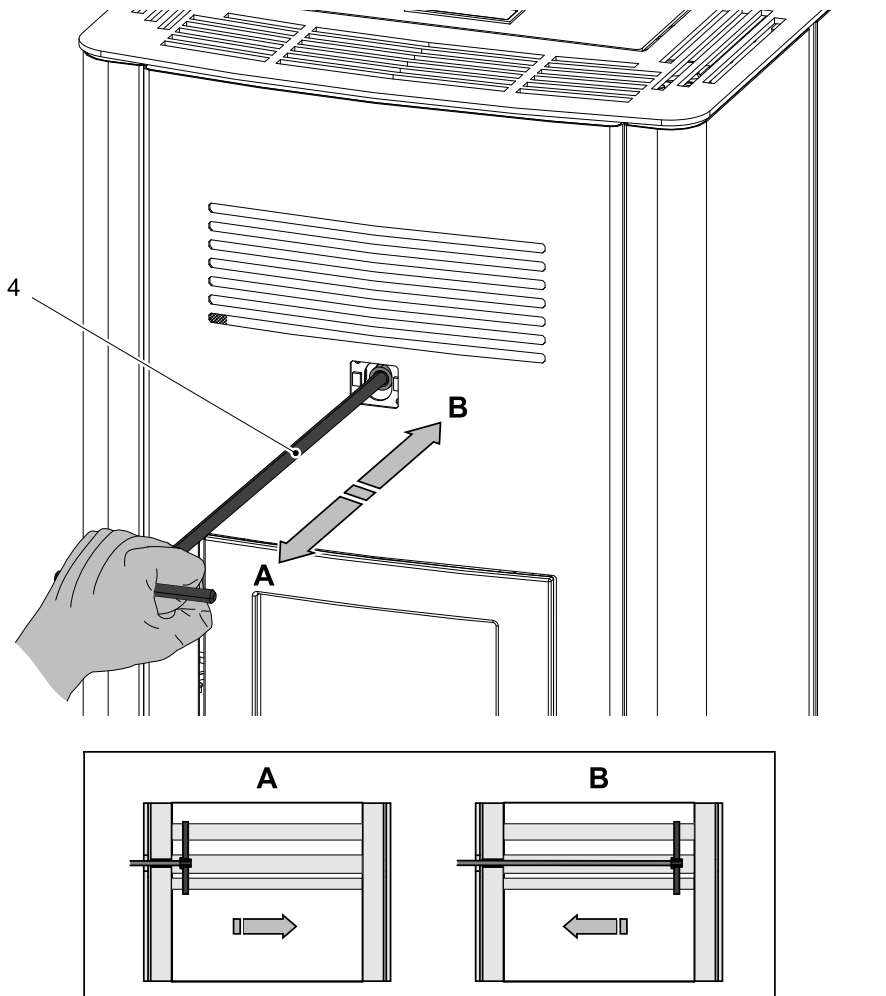


Figure 3b

5



6

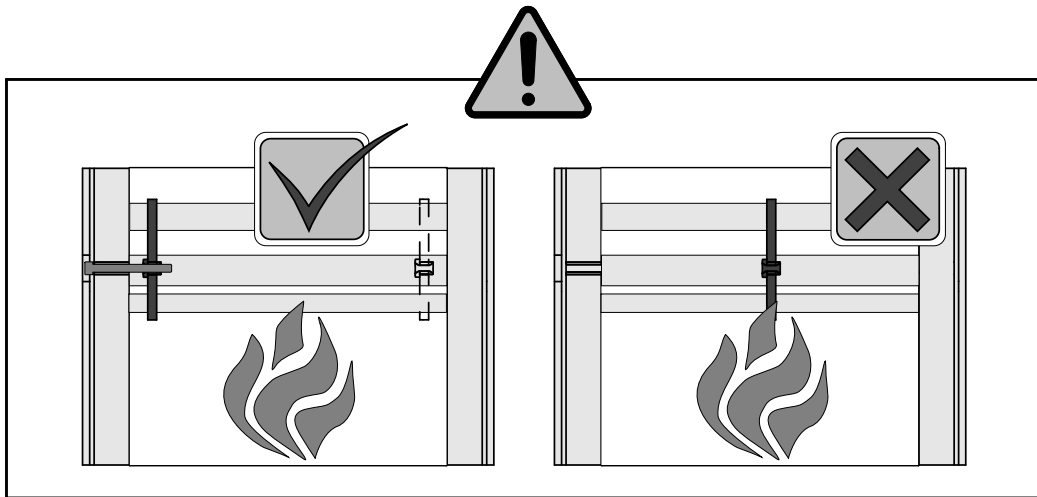


Figure 3c

Pos.	Description	Piece	No. PR
1	Cover plug	1 piece	0553808006180
2	Allen wrench 6mm	1 piece	9001700060005
3	Screw M10x70	1 piece	0030121000705
4	Drawbar of cleaning	1 piece	0433317006063



## 4.3. Cleaning of the exchanger



### CAUTION

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Check and clean the flue-gas ways, exhaust (flue-gas) fan and flue-gas ducts at the latest after 1000 kg of pellets have been consumed. Clean with a brush or an ash extractor.

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### CAUTION

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After completion of the cleaning make sure that when putting back the covers, the seals are seated in the right positions. It is essential to replace defective seals.

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Please perform the long-time cleaning in two steps:

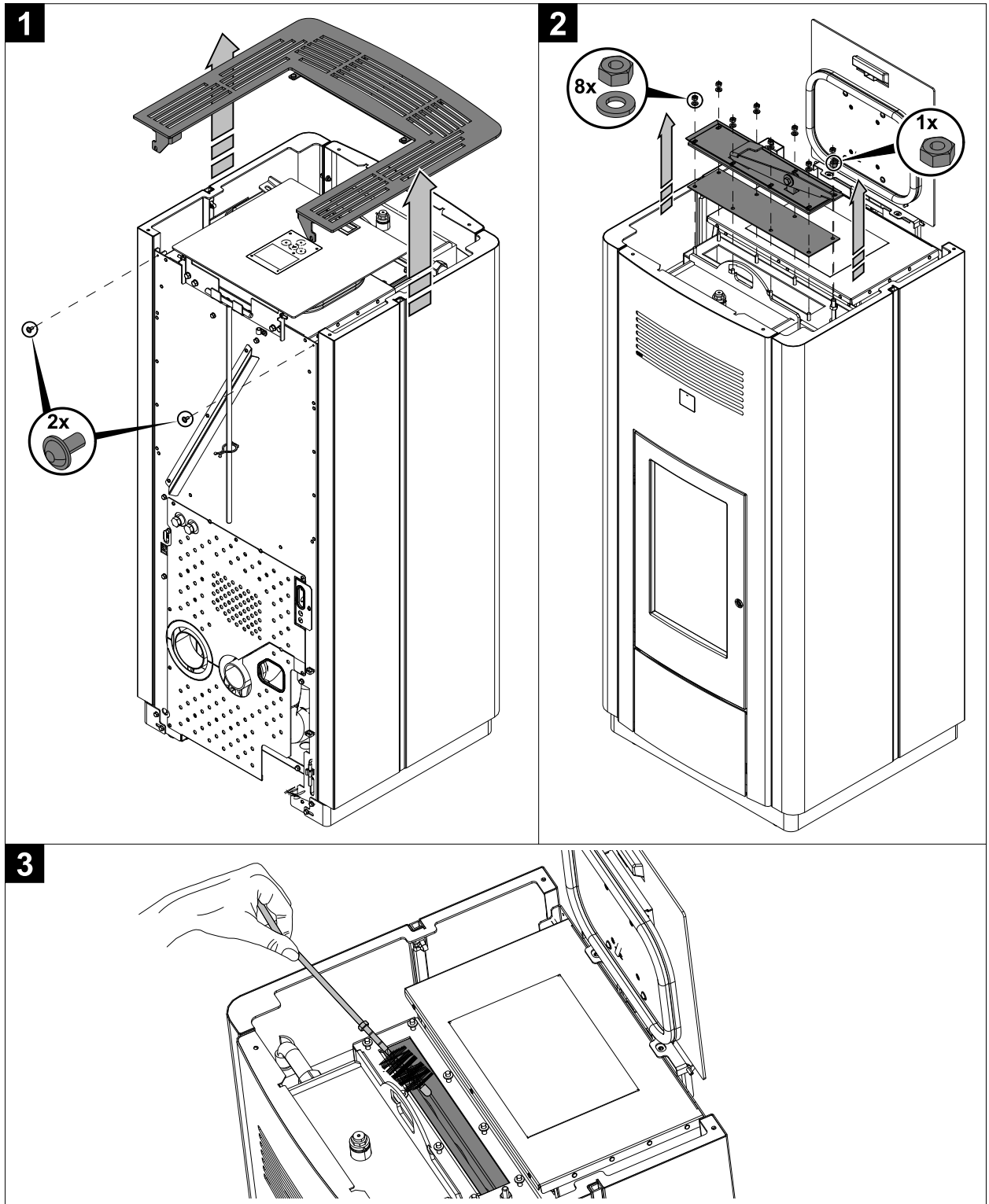


Figure 4

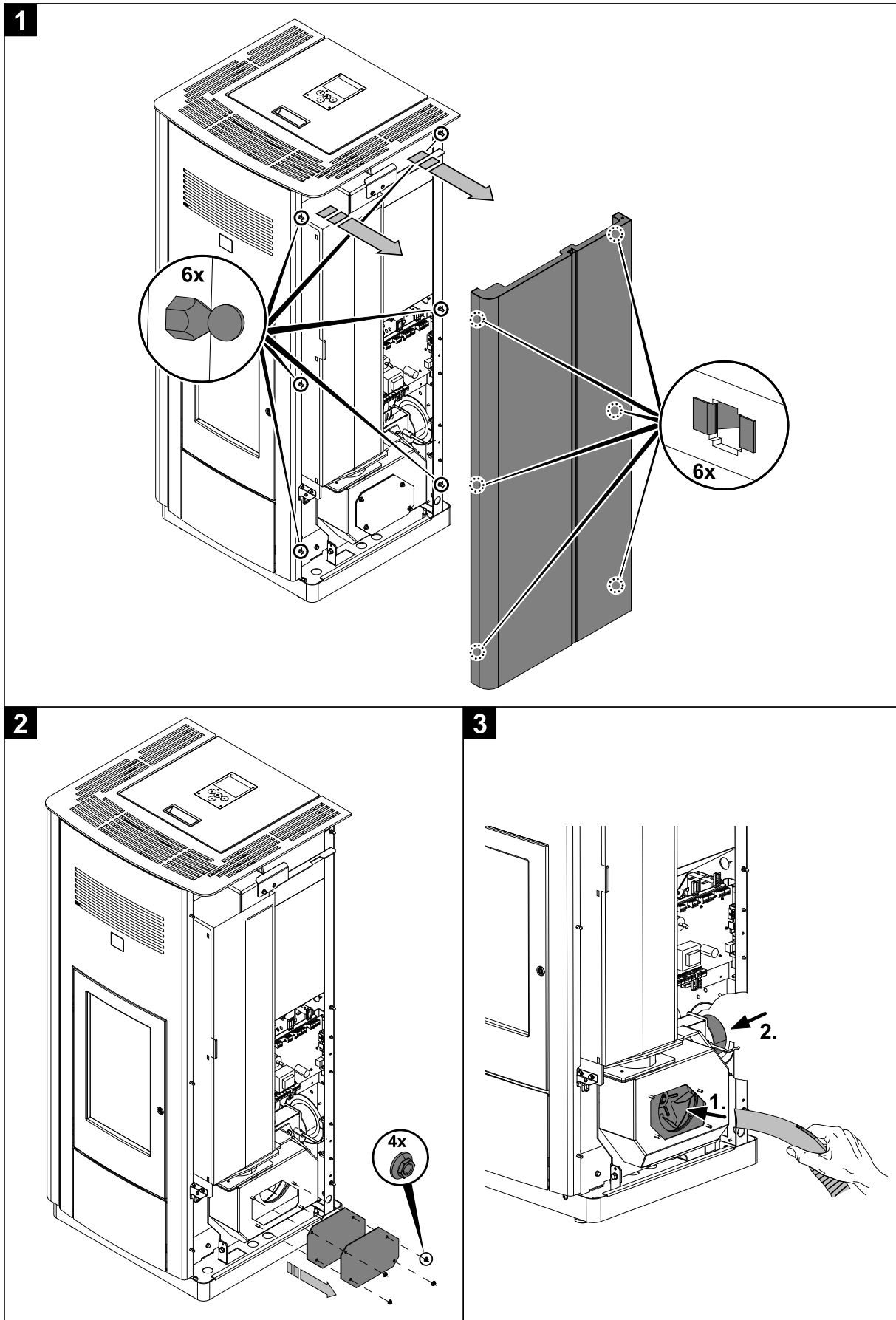
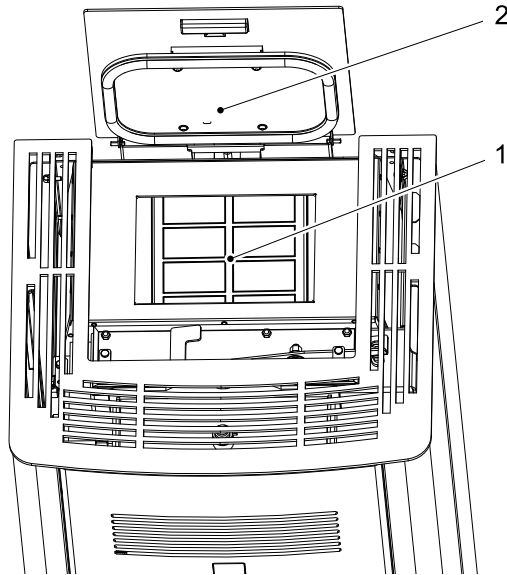


Figure 5: Removing the side wall

## 4.4. Cleaning the pellet container - annual maintenance

- Heat the pellet stove until the storage tank is completely empty.
- Then the protective grille (1) in the pellet tank may be removed.
- Then clean the tank and the intake of the screw conveyor housing with a vacuum cleaner.
- After cleaning, it is essential to put back the protective grille. When doing this, make sure that no screws fall into the pellet tank so as to avoid consequential damage to the screw conveyor.

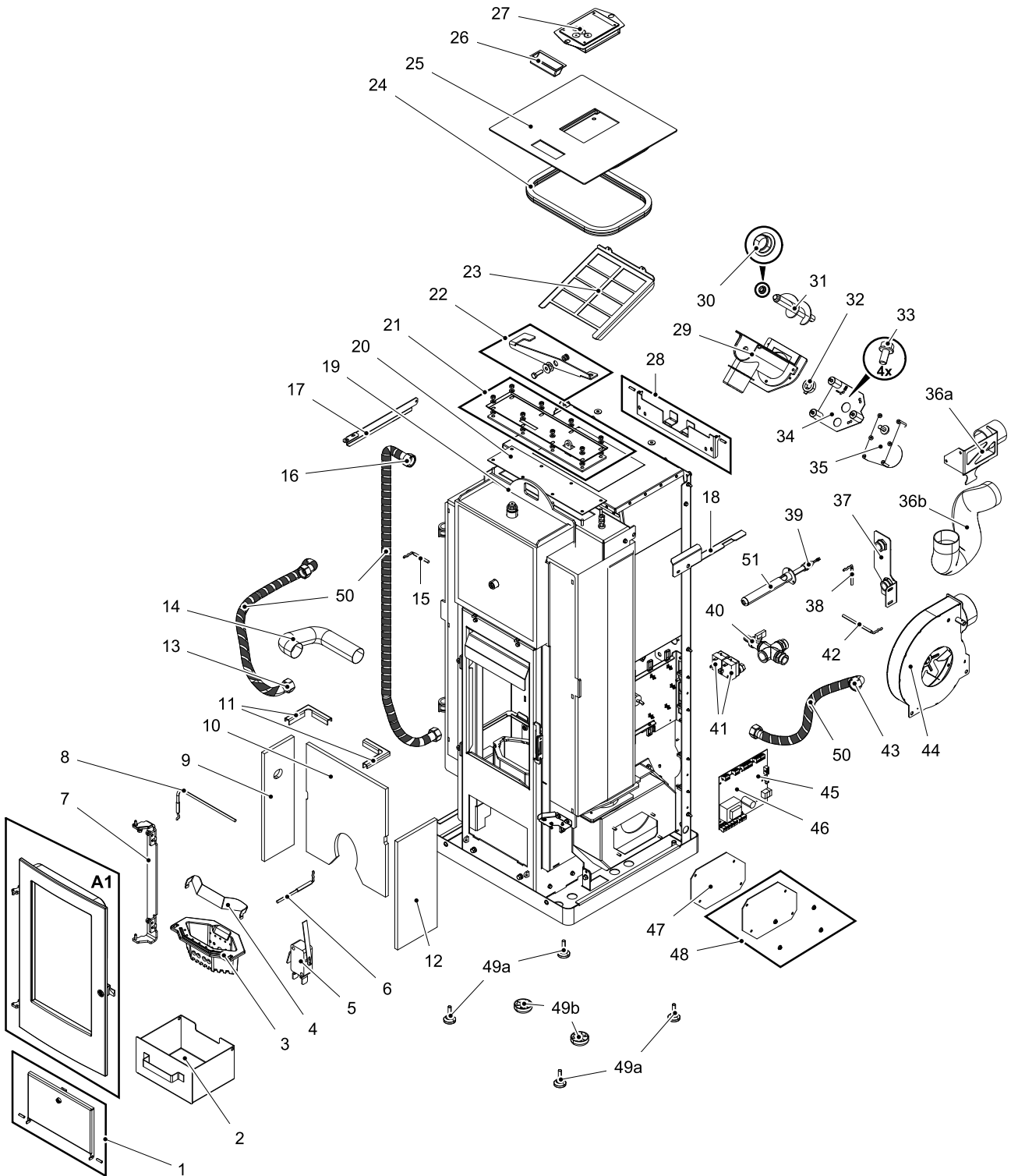


**Figure 6: Pellet tank**

- 1 Protective grille
- 2 Tank cover

# 5. Replacement parts list

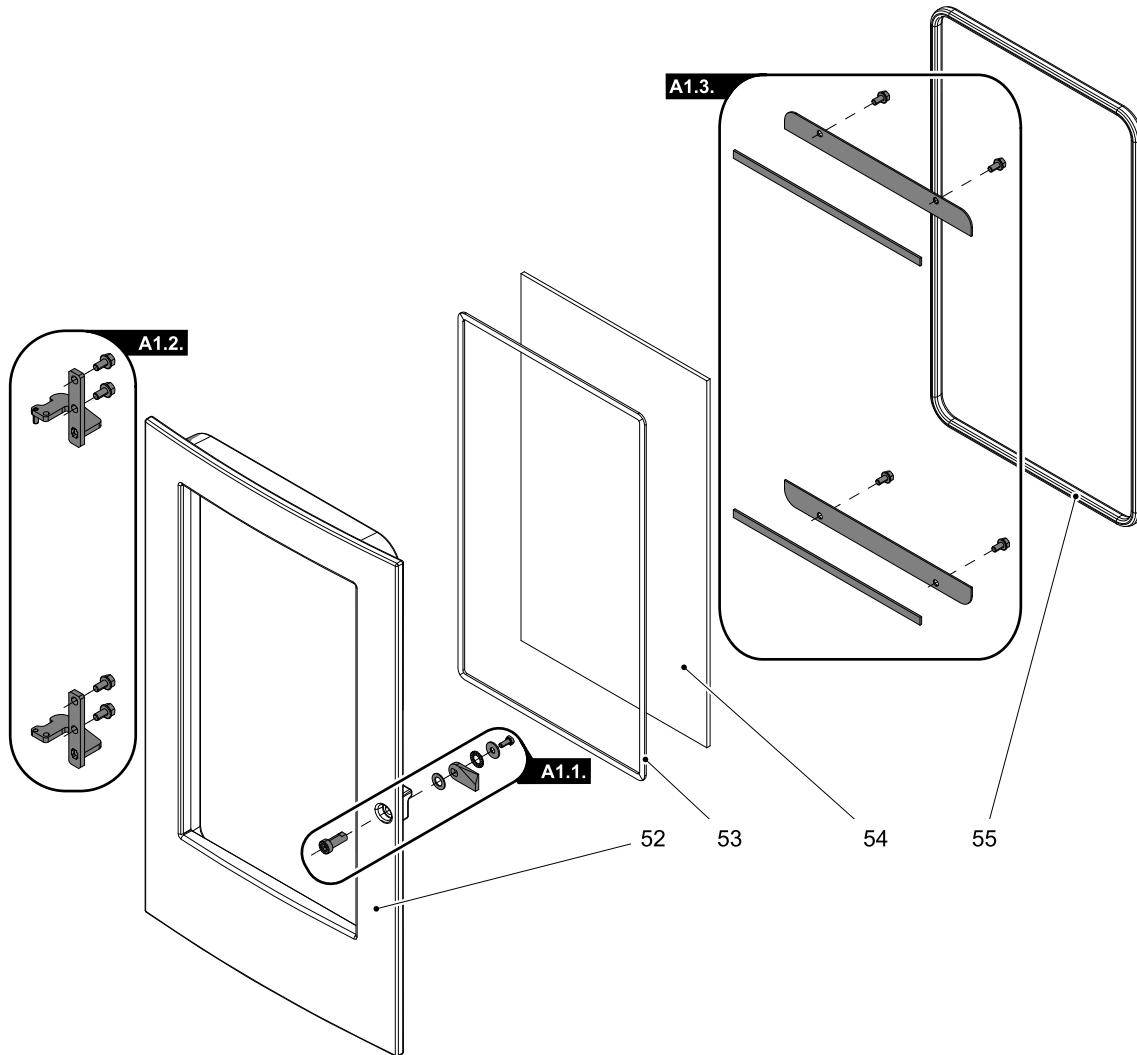
## 5.1. Replacement parts list HSP 6 537.08–WT RLU/PGI (without trim parts)



Pos.	Description	Piece	No. PR
<b>Replacement parts list HSP 6 537.08–WT RLU/PGI (without trim parts)</b>			
<b>A1</b>	Complete combustion chamber door/black	1 piece	0553808005300
<b>A1</b>	Complete combustion chamber door/ anthracite	1 piece	0553808015300
<b>1</b>	Ash-pan door/anthracite	1 piece	0553808005060
<b>2</b>	Ash pan/anthracite	1 piece	0553808005600
<b>3</b>	Burner cast/anthracite	1 piece	0553808005706
<b>4</b>	Protection grate	1 piece	0551908006709
<b>5</b>	Door contact switch	1 piece	0089500040005
<b>6</b>	Bottom temperature sensor	1 piece	0561008005543
<b>7</b>	Door hinge (complete)/anthracite	1 piece	0553808005400
<b>8</b>	Flame temperature sensor	1 piece	0553808005541
<b>9</b>	Combustion chamber cladding left	1 piece	0553808005040
<b>10</b>	Combustion chamber cladding back	1 piece	0553808005041
<b>11</b>	Holders of the fire-box lining le+ri/anthracite	2 piece	0553808005042
<b>12</b>	Combustion chamber cladding right	1 piece	0553808005039
<b>13</b>	Conecting pipe 3/4 L=670	1 piece	0553808005903
<b>14</b>	Hose Meniflex L=300	1 piece	0553808005315
<b>15</b>	Room temperature sensor	1 piece	0089500390005
<b>16</b>	Conecting pipe 3/4 L=1100	1 piece	0553808005902
<b>17</b>	Framework left	1 piece	0553808005021
<b>18</b>	Framework right	1 piece	0553808005022
<b>19</b>	Venting valve	1 piece	0088600005270
<b>20</b>	Seal	1 piece	0553808005026
<b>21</b>	Shielding of the cleaning orifice - Set	1 piece	0553808005025
<b>22</b>	Cleaning lever/anthracite	1 piece	0553808005023
<b>23</b>	Protective grille	1 piece	0553808005931
<b>24</b>	Seal, tank cover (1000 mm)	1 piece	0546608005189
<b>25</b>	Tank cover/anthracite	1 piece	0553808005190
<b>26</b>	Grip	1 piece	0089500940005
<b>27</b>	Operator console	1 piece	0571207005510
<b>28</b>	Cover hinge pins DIN 427 M5x18	1 piece	0553808005015
<b>29</b>	Conveyor	1 piece	0571207015060
<b>30</b>	Lower screw conveyor bearing	1 piece	0571207005026
<b>31</b>	Screw conveyor	1 piece	0571207005030
<b>32</b>	Collet	1 piece	0089000340009

<b>33</b>	Screw UN5950 M5x10	4 piece	-
<b>34</b>	Motor plate - set	1 piece	0551908007080
<b>35</b>	Screw conveyor motor	1 piece	0089500000006
<b>36a</b>	Air inlet funnel	1 piece	0553808015320
<b>36b</b>	Hose Meniflex AL L=500	1 piece	0553808005322
<b>37</b>	Entry to the panel of flanges	1 piece	0553808005901
<b>38</b>	Room temperature sensor	1 piece	0089500390005
<b>39</b>	Ignition	1 piece	0541908005202
<b>40</b>	Outlets of the hydraulic system – cock+Ms Cross+inserts – set	1 piece	0088600000055
<b>41</b>	OC	2 piece	0089500080005
<b>42</b>	Flue gas thermosensor	1 piece	0561008005540
<b>43</b>	Conecting pipe L=550	1 piece	0553808005904
<b>44</b>	Induced draught fan	1 piece	0553808005808
<b>45</b>	Complete control unit	1 piece	0553808005569
<b>46</b>	Backup battery CR 2032	1 piece	-
<b>47</b>	Seal (191x136x4)	1 piece	0553808005805
<b>48</b>	Tank cover + screw	1 piece	0553808005806
<b>49a</b>	Stand	4 piece	0551908506005
<b>49b</b>	Stand	2 piece	0089501090005
<b>50</b>	Spiral guard cover (1950 mm)	1 piece	0089501160005
<b>51</b>	Lighter case	1 piece	0553808005215

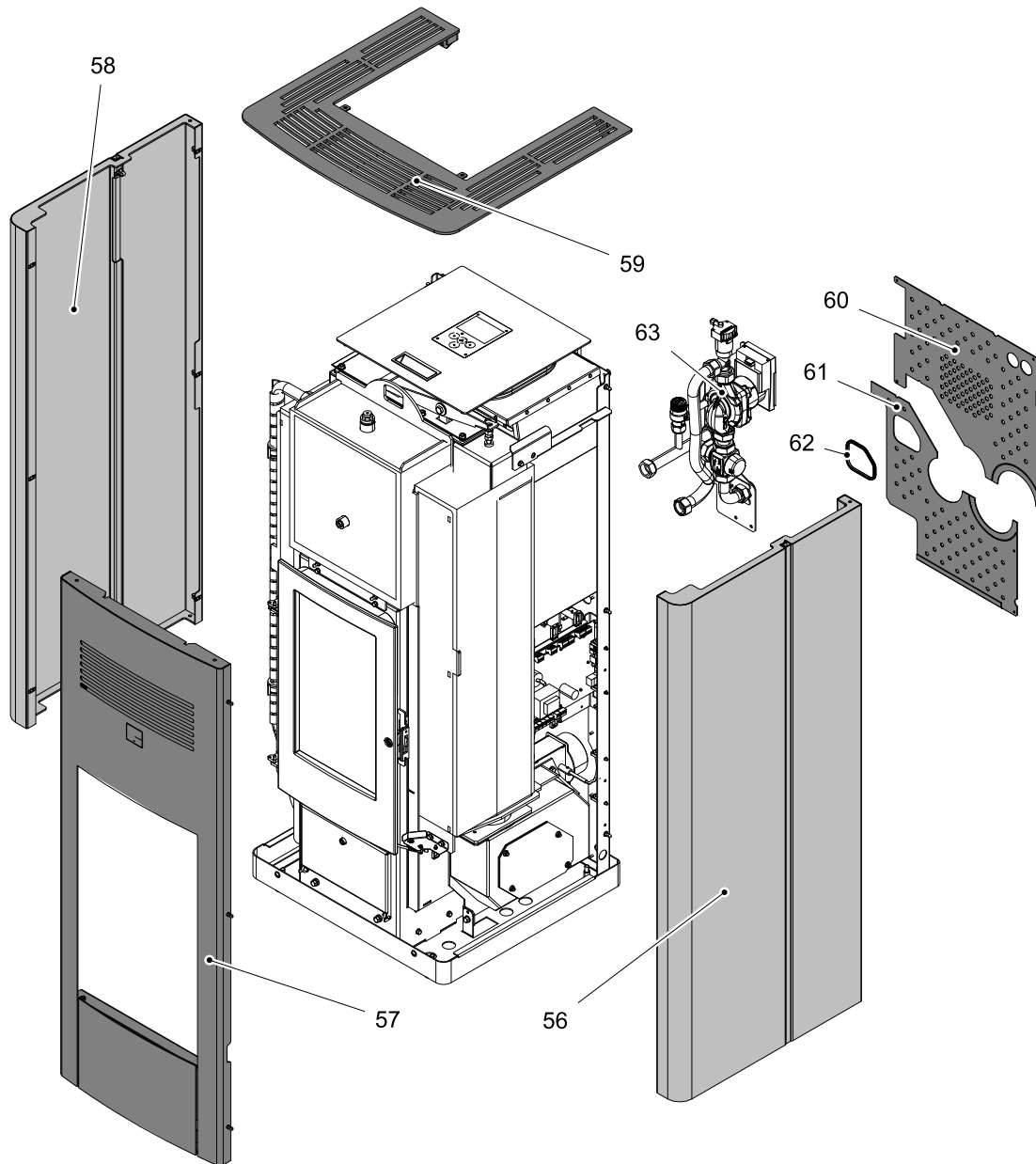
## 5.2. Detail A1



Pos.	Description	Piece	No. PR
<b>Detail A1</b>			
<b>A1.1.</b>	Screwing door — set	1 piece	0551908005001
<b>A1.2.</b>	Door hinge/black — set	1 piece	0553808006340
<b>A1.2.</b>	Door hinge/anthracite — set	1 piece	0553808005340
<b>A1.3.</b>	Glass holder/black — set	1 piece	0551908035308
<b>A1.3.</b>	Glass holder/anthracite — set	1 piece	0551908005308
<b>52</b>	Combustion chamber door/black	1 piece	0541908007220
<b>52</b>	Combustion chamber door/anthracite	1 piece	0541908005220
<b>53</b>	Seal glass 10x4 mm (900 mm)	1 piece	0040210040005
<b>54</b>	Door glass (383x224x4)	1 piece	0551908005305
<b>55</b>	Seal door 11 mm (1306 mm)	1 piece	0040300110006



### 5.3. Replacement parts list HSP 6 537.08–WT RLU/PGI



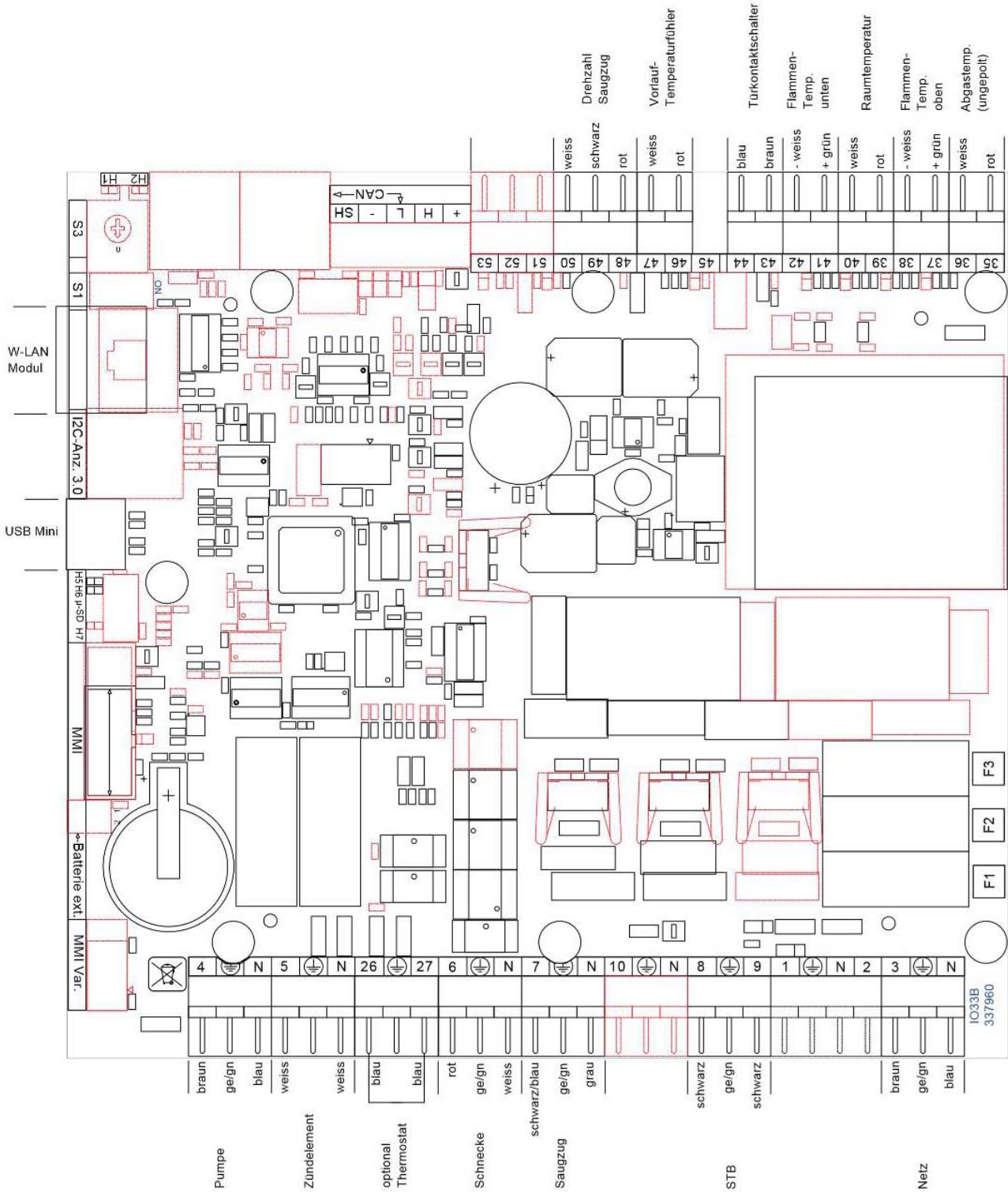
Pos.	Description	Piece	No. PR
<b>Replacement parts list HSP 6 537.08–WT RLU/PGI</b>			
<b>56+58</b>	Side wall left+right/anthracite	2 piece	0553808006140
<b>56+58</b>	Side wall left+right/white	2 piece	0553808016140
<b>57</b>	Front plate/anthracite	1 piece	0553808016120
<b>57</b>	Front plate/anthracite-black	1 piece	0553808006120
<b>59</b>	Cover plate/anthracite	1 piece	0553808017160
<b>60</b>	Back wall upper	1 piece	0553808006118
<b>61</b>	Back wall lower	1 piece	0553808006119
<b>62</b>	Edge cover (225 mm)	1 piece	0089500640005
<b>63</b>	Hydraulik-modul Set	1 piece	0553808114000

# 6. Circuit diagram

Circuit diagram IO 33.6

Circuit diagram

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**Description Circuit diagram:**

No.:	Description Cable harness
3	Mains plug / mains filter
4	Pump
5	Electric ignition
26/27	Storage tank thermostat: optional*
6	Screw conveyor motor
7	Induced draught
8/9	OC
35/36	Flue gas temperature sensor
37/38	Flame temperature sensor
39/40	Room temperature sensor
41/42	Bottom flame temperature sensor TFL 2
43/44	Door contact switch
46/47	Temperature sensor on the input
48-50	Flue gas fan rotation speed
F1	Fuse T 3,15A ignition, induced draught fan, screw conveyor motor
F2	Fuse T 3,15A pump
F3	Fuse T 0,315A operator console

**\* You can use the following types of thermostats for the storage tank:**  
(not supplied by Haas + Sohn)

**Afriso 7P1**



**Watts Industries TC-200-AN**



**GB**

