Operating manual

Scotty Duo

AUSTROFLAMM

www.austroflamm.com

Operating manual
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LEGAL NOTICES

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Contents

1 General information

You have decided in favour of an Austroflamm hybrid stove.

Congratulations on your decision and thank you for your trust.

Correct operation and care are essential for trouble-free operation and long service life.

The information in this manual is of a general nature. National and European standards, local and building regulations, together with fire regulations must also be complied with.

Read these instruction through carefully before installation and operation. No liability or warranty claims apply for damage incurred by failure to follow this manual. Please observe the instructions in the individual sections.

This manual is a component part of the hybrid stove. This manual is included with your hybrid stove.

In the following list we give you an overview of which sections are important for whom:

Dealer	End customer
Complete operating manual	General information [▸on page 6]
	Purpose of the manual
	Safety [▸on page 10]
	Product overview [▸on page 13]
	Technical data [▸on page 16]
	Requirements at the installation location [▸on page 21]
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	Settings [▸on page 61]
	Commissioning [▸on page 69]
	Maintenance [▸on page 70]
	Alarms and error messages [▸on page 73]
	Spare parts [▸on page 81]
	Disposal [▸on page 85]
	Warranty and guarantee [▸on page 87]
	Start up log [▸on page 89]
	Service Report [▸on page 90]

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1.1 Link to operating manual

You have in your hands an extract from our manual for this hybrid stove. For detailed information on the operation, installation, maintenance, help, etc., download the operating manual via our website http://www.austroflamm.com via the respective product page.

Scanning the QR code will take you straight to the product page for this hybrid stove. You will find the operating manual under Downloads.

Fig. 1: Scotty Duo

1.2 Copyright

2 Purpose of the manual

This manual is a component part of the hybrid stove and is intended to contribute to the hybrid stove being safely installed and maintained.

TIP

Please read this manual before using the stove for the first time.

2.1 Storing the manual

Store this manual in case you need it. A current version of the manual can be found online at our homepage www.austroflamm.com.

2.2 Structure of the manual

The table of contents can be found on page 3.

Illustrations in this manual may differ from the delivered product.

2.3 Representations used

The following representations are used in this manual:

Steps with mandatory adherence to the sequence

✓ Prerequisite

1) Step 1
2) Step 2
3) …..
   ⇨ Intermediate result / additional information

⇨ Result

Steps and bullet points without mandatory sequence

- ….
- ….
  - ….
  - ….

Cross-references

See Technical Data

Useful tips

TIP

Fuel

Use only the recommended fuel!

2.4 Version control

We update our manuals on a continual basis. The current version can be found at our homepage www.austroflamm.com.

2.5 Abbreviations

Abbreviation	Meaning
HMS	Heat Memory System

3 Safety

In this manual we give you numerous safety instructions for the safe operation of your hybrid stove. These instructions are characterized differently as follows, depending on their importance:

In this manual we give you numerous safety instructions for the safe operation of your hybrid stove.

3.1 Importance of the safety instructions

NOTICE

Particular behaviour and/or activities that are required for safe working. Failure to follow this can result in material damage.

⚠ CAUTION

Possible dangerous situation (light or minor injuries and material damage).

⚠ WARNING

Possibly imminent danger to life and health of persons (severe injuries or death).

⚠ DANGER

Immediately imminent danger to life and health of persons (severe injuries or death).

3.2 Warning of sources of danger

3.2.1 General safety instructions

- The information in this manual represents generally applicable standards and rules. National and European standards, local and building regulations, together with fire regulations must also be complied with.
- Please carefully store this manual and ensure that it is always available.
- Compliance with the instructions contained here will guarantee the safety of people and the appliance, economic operation and a long service life. The hybrid stove has been designed based on standards EN 14785 and EN 13240.
- Original parts must not be modified or exchanged for parts from other manufacturers. Such action will void the warranty claim.
- When working or intervening on the hybrid stove, the power supply must be switched off.
- Diagrams and drawings supplied with the stove are used only as illustrative examples; the manufacturer pursues a policy of constantly developing and updating the product and may make modifications without prior notification.
- All dimensions in this manual are given in mm.
- The initial commissioning of the hybrid stove must only be carried out by authorised Austroflamm service partners.
- Your hybrid stove is not suitable for use as a ladder or a stand.
- Please note that the surfaces of the hybrid stove heat up considerably during operation. We recommend that you use the protective glove supplied to operate the hybrid stove.

- Please alert children to these dangers, and keep them away from the hybrid stove when it is operating.
- No rubbish (of any kind) or residual materials may be burnt in the hybrid stove. Only the recommended fuels may be burnt.
- Placing non-heat-resistant objects on the stove or in its vicinity is forbidden.
- Do not place any items of laundry on the hybrid stove to dry. Even laundry racks or the like must be placed at a sufficient distance from the hybrid stove - fire risk!
- While your hybrid stove is in operation, it is forbidden to process highly flammable or explosive substances in the same room or in adjoining rooms.
- It must be ensured that there is a sufficient supply of combustion air and safe removal of exhaust gases. Therefore always check whether the chimney is blocked, especially after a long break in operation.
- In the transition period, i.e. during high external temperatures, a sudden temperature rise can disrupt the chimney draft so that the fuel gases are not completely drawn off. Should this be the case, switch off the hybrid stove.
- The convection air grille must never be closed, not even partially.
- Venting systems that are being operated together with the fireplace in the same room or group of rooms may cause problems.
- The hybrid stove must be regularly cleaned and maintained: see Maintenance section.
- Repairs to your hybrid stove must only be carried out by technical personnel who have been trained by the manufacturer.
- Exchange spare parts depending on requirement and condition. Regularly check the electrical and electronic components for damage or wear.
- Safety features must not be bypassed.
- If fuel used is incorrect or too moist, then due to deposits in the chimney this may lead to a chimney fire. Immediately close all ventilator openings on the chimney and inform the fire service. After the chimney has burned out, have it checked by an expert for cracks and leaks.
- Under certain conditions, pellet appliances are suitable also for multiple occupancy of chimneys. Your master chimney sweep will inform you of these conditions and carry out the appropriate acceptance.
- Please note that the room in which the stove is installed must have at least one door / one window leading to the outside, or be directly connected to such a room. Other heating appliances and extractor bonnets must not be operated together with these heating appliances as part of the room air system.
- The firebox door must be kept closed when the fire is operating.
- The installation surface for the hybrid stove must have an appropriate load-bearing capacity. If an existing design does not fulfil this condition, suitable measures (e.g. a plate for distribution of the load) must be taken to meet it.
- This manual must be carefully read through before the installation, use or any intervention on the hybrid stove.

3.2.2 Safety distances

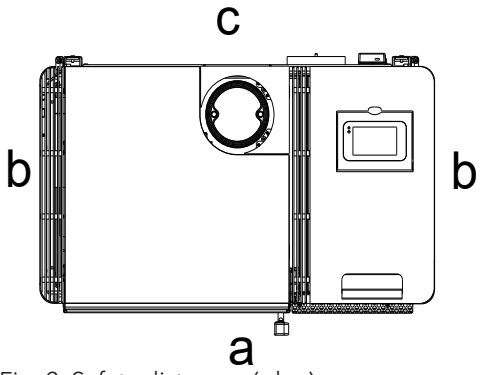


Fig. 2: Safety distances (plan)

When setting up in the room the following safety distances to combustible materials (minimum distances - see also nameplate) must be adhered to.

- a) 700 mm (at the front in the radiation area of the door)
- b) 250 mm (at the sides)
- c) 100 mm (rear)

Caution: The floor in the radiation area of the glass firebox door must be non-combustible.

Note that the room in which the stove is installed must have at least one door / one window leading to the outside, or be directly connected to such a room. Other heating appliances and extractor bonnets must not be operated together with this heating appliance as part of the room air system.

This hybrid stove is positioned on the floor and aligned horizontally, observing the safety distances. The height of the adjustable feet can be altered.

4 Product overview

4.1 Intended use

The Austroflamm hybrid stove described in this manual is manufactured and tested as a type A1 self-closing appliance under EN test EN 13240.

NOTICE

Operation is only permitted with the door shut, ash pan locked and hopper lid closed.

4.2 Identification of the product

In the following illustrations we will inform you of dimensions and the nameplate positioning.

4.2.1 Overview

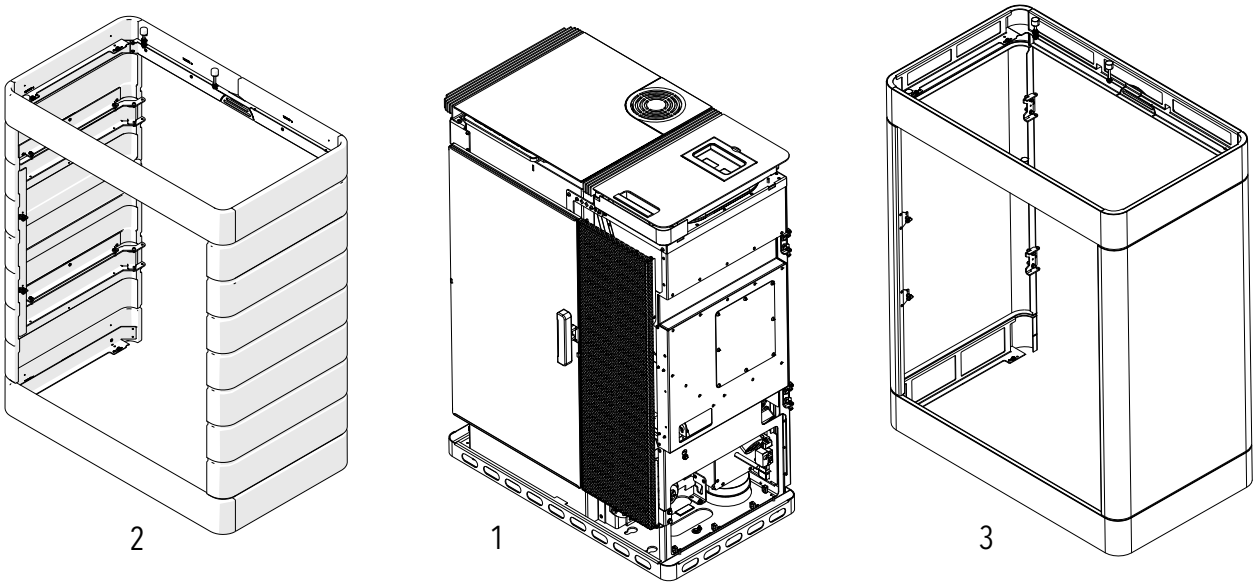


Fig. 3: Scotty Duo overview

1 Scotty Duo	2 Ceramic cladding
3 Steel cladding	

4.2.2 Dimensions

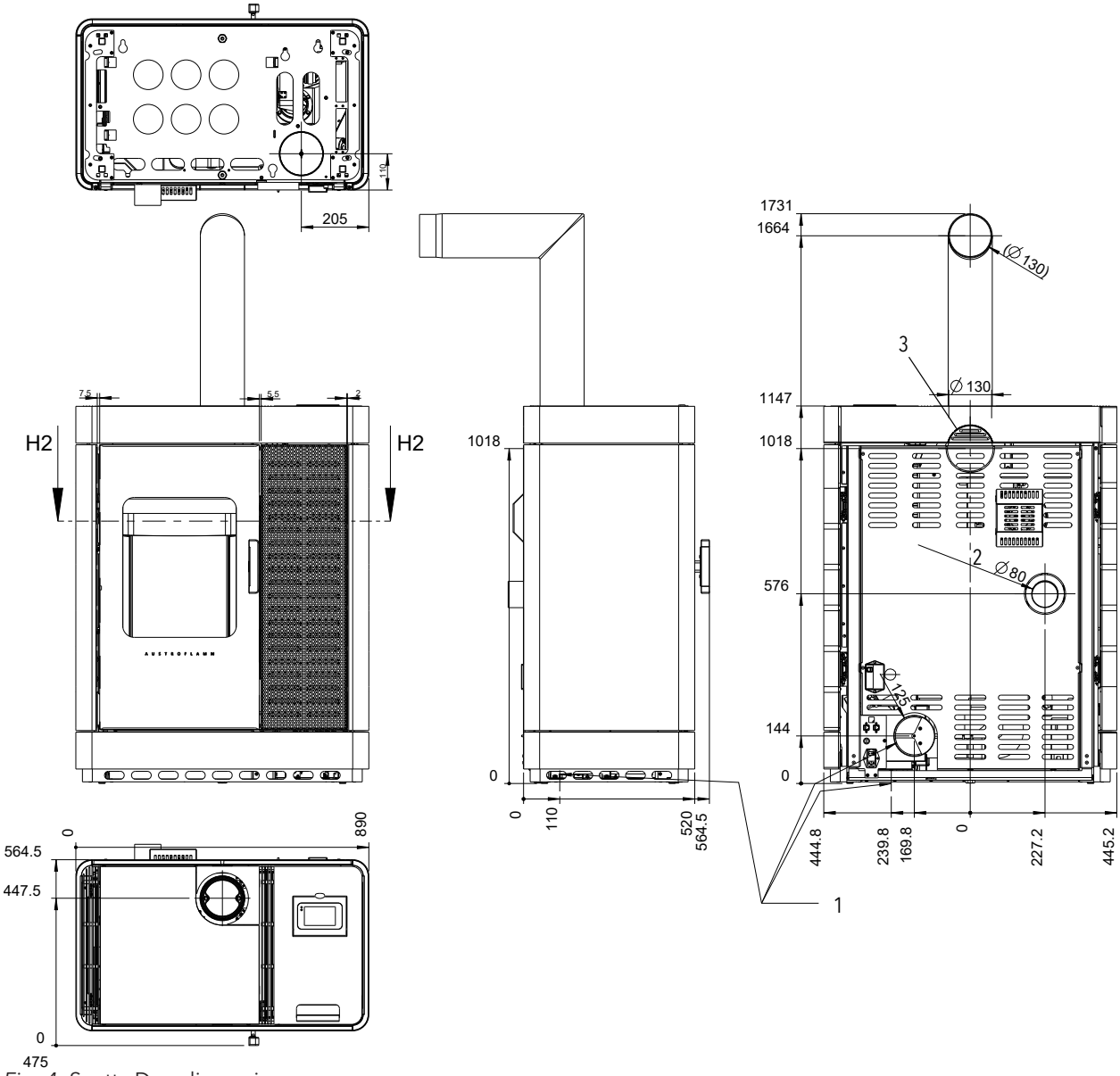


Fig. 4: Scotty Duo dimensions

1	Combustion air access rear/bottom	2	Air module outlet
3	Flue outlet		

4.2.3 Positioning of the nameplate

The nameplate of your stove is located on the inside of the hopper lid.

Fig. 5: Nameplate

You can find a copy of the nameplate on the back of this manual.

4.3 Energy label

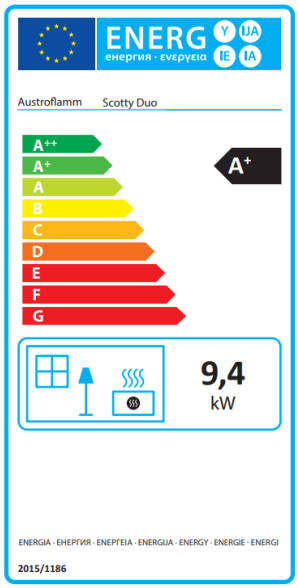


Fig. 6: Energy label

5 Technical data

5.1 Technical data under Directive (EU) 2015/1185 and del. as per Regulation (EN) 2015/1186

Contact details for the manufacturer or their authorized representative

Manufacturer:	Austroflamm GmbH
Contact:	-
Address:	Austroflamm-Platz 1
	4631 Krenglbach
	Austria

Appliance details

Model identification(s):	Scotty Duo
Equivalent models:	-
Test reports:	RRF-8521 5726 by 1625 RRF (pellets) RRF-4021 5726 by 1625 RRF (firewood)
Applied harmonized standards:	EN 14785:2006 EN 13240:2001 / A2:2004 / AC:2007
Other standards/technical specifications Specifications:	EN 16510:2018
Indirect heating function:	no
Direct heat output:	9.4 kW
Indirect heat output[1]:	-

Properties for operation with the preferred fuel

Space heating annual use efficiency η_s:	79.4 %
Energy efficiency index (EEI):	119

Particular precautions for assembly, installation or maintenance

Described in the individual sections of the operating manual.

Fuel	**Preferred fuel (only one)[2]:**	**Other suitable fuel(s)[3]:**	**ηs [x%]:**	**Space heating emissions at nominal heat efficiency (*)**				**Space heating emissions at minimum heat efficiency[4] (*) (**)**			
				PM	**OGC**	**CO**	**NOx**	**PM**	**OGC**	**CO**	**NOx**
				[x] mg/Nm³ (13% O2)[5]				**[x] mg/Nm³ (13% O2)[6]**			
Log, moisture content ≤ 25 %	no	yes	76.0	19	61	1000	133	-	-	-	-
Compregnated laminated wood, Moisture content < 12 %	yes	no	79.4	18	<5	94	99	-	-	-	-
Other woody biomass	no	no	-	-	-	-	-	-	-	-	-
Non-woody biomass	no	no	-	-	-	-	-	-	-	-	-
Anthracite and dry steam coal	no	no	-	-	-	-	-	-	-	-	-
Coking coal	no	no	-	-	-	-	-	-	-	-	-
Semi-coke	no	no	-	-	-	-	-	-	-	-	-
Bituminous coal	no	no	-	-	-	-	-	-	-	-	-

Lignite briquettes	no	no	-	-	-	-	-	-	-	-	-
Peat briquettes	no	no	-	-	-	-	-	-	-	-	-
Briquettes made from a mixture of fossil fuels	no	no	-	-	-	-	-	-	-	-	-
Other fossil fuels	no	no	-	-	-	-	-	-	-	-	-
Briquettes made from a mixture of biomass and fossil fuels	no	no	-	-	-	-	-	-	-	-	-
Other mixture of biomass and solid fuels	no	no	-	-	-	-	-	-	-	-	-

(*) PM = dust, OGC = organic gaseous connections, CO = carbon monoxide, NOx = nitrogen oxide

(**) Only required when using correction factors F(2) or F(3).

Properties for exclusive operation with the preferred fuels[7]

Specification	**Symbol**	**Value**	**Unit**	**Specification**	**Symbol**	**Value**	**Unit**
Heat output				**Thermal efficiency (fuel efficiency) (based on the NCV)**			
Nominal heat efficiency	Pnom	9.4	kW	thermal efficiency (fuel efficiency) at nominal heat efficiency	ηth,nom	90.0	%
Minimum heat output (standard value)	Pmin	-	kW	thermal efficiency (fuel efficiency) at minimum heat output (standard value)	ηth,min	-	%
Auxiliary power consumption				**Type of heat output/room temperature control**			
At nominal heat efficiency	elmax	0.017	kW	single-level heat output, no room temperature control			yes
At minimum heat output	elmin	0.017	kW	two or more manually adjustable levels, no room temperature control			no
In standby condition	elSB	0.005	kW	Room temperature control with mechanical thermostat			no
Pilot flame power requirement				with electronic room temperature control			no
Pilot flame power requirement (if present)	Ppilot	-	kW	with electronic room temperature control and daytime regulation			no
				with electronic room temperature control and weekday regulation			no
				Other regulation options (Multiple answers possible)			
				Room temperature control with presence detection			no
				Room temperature control with open window detection			no
				with remote control option			no

[1] There is no entry for fireplaces without water-carrying components.

[2] Values for annual use efficiency and emissions must be given here for the preferred fuel.

[3] Values for annual use efficiency and emissions must be given here for all other suitable fuels.

[4] Corresponds to partial load heat output as per EN 16510

[5] Specification in mg/m³ for heated filter method (in compliance with Annexe III, number 4, letter a, section i, point 1) or g/kg for measurement in dilution tunnel (in compliance with Annexe III, number 4, letter a, section i, point 2 and 3.)

[6] Specification mg/m³ for heated filter method (in compliance with Annexe III, number 4, letter a, section i, point 1) or g/kg for measurement in dilution tunnel (in compliance with Annexe III, number 4, letter a, section i, point 2 and 3.)

[7] Specifications are made here for the preferred fuel only.

5.2 General specifications

Technical data	
Nominal heat efficiency [kW]	9.4
Partial load heat output [kW]	2.8
Space heating capacity, at least (depending on the building insulation) [m³]	114
Maximum room-heating capacity (depending on the building insulation) [m³]	255
Efficiency [%]	90
CO [mg/Nm³]	< 250
Flue gas temperature at nominal heat output [°C]	219
Partial output flue gas temperature [°C]	112
Flue gas mass flow [g/s]	5.6
Flue gas mass flow [g/s] for partial load	3.8
Minimum feed pressure at nominal heat output [Pa]	12
Pellet hopper capacity [kg]	34
Pellet hopper capacity [l]	51
Fuel throughput, minimum [kg/h]	0.6
Fuel throughput, maximum [kg/h]	1.87
Autonomy, minimum [h]	18
Autonomy, maximum [h]	56
Air sockets [Ø]	125
Flue pipe outlet, diameter [mm]	130
Electrical power input when switching on [W]	325
Electrical power input during operation [W]	16.5
Power connection [V/Hz]	203/50
Height [mm]	1147
Width [mm]	890
Depth [mm]	520
Weight [kg]	300
Minimum clearance at the sides for firebox	300
Minimum clearance at the sides for pellet hopper	100
Minimum clearance at the rear	180
Minimum clearance at the front	1000
Temperature limits	0-40
Relative humidity	non-condensing

Fire safety - distance from combustible materials, base [mm]	0
Fire safety - distance from combustible materials, rear [mm]	130
Fire safety - distance from combustible materials, side [mm]	100
Fire safety – distance from combustible materials, ceiling [mm]	-
Fire safety - distance from combustible materials - combustion chamber side offset [mm]	300
Fire safety– distance from combustible materials - side of pellet hopper [mm]	100 / 0
Fire safety - distance from combustible materials - within radiation area of the observation window door [mm]	1000 / --- / 0
Minimum distance from non-flammable materials [mm]	50

Safety distances to combustible materials, front [mm]	700
Safety distances to combustible materials, side [mm]	250
Safety distances to combustible materials, back [mm]	100

6 Transport, handling and storage

6.1 Transport

Immediately checked the goods delivered for completeness and damage in transit.

Before installing the hybrid stove, check that all movable parts are working. Any defects before the installation of the hybrid stove must be reported.

Transport is with a crate. Use a lifting truck or forklift to transport the crate including the hybrid stove.

Remove the crate and dispose of it appropriately.

Fig. 7: Crate

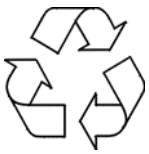
Only approved transport aids with sufficient load-bearing capacity may be used for transport.

6.2 Storage

The appliance must be stored in a dry room/warehouse. Protect it against dirt, heat and moisture.

The following illustrations are attached to the crate and must be complied with:

- Fragile – always place upright – protect against moisture and store dry.



- Remove and dispose of packing material in an environmentally friendly manner.

- The crate can be disposed of in the separate collection for packaging. Local disposal regulations must be observed.

7 Requirements at the installation location

7.1 Requirements to be met by the installation room

Your hybrid stove must not be set up in:

- spaces in which the required combustion air supply is not guaranteed.
- spaces which are generally accessible, in particular emergency exits (staircases in residential building with no more than 2 apartments are not included in general accessible spaces).
- spaces in which easily flammable or potentially explosive substances or mixtures are processed, stored or manufactured.
- spaces, apartments or units from which air is extracted with the aid of ventilators, such as ventilation- or hot-air heating installations, extractor hoods or exhaust air tumble dryers. Unless the safe function of the stove is ensured.

  This is ensured if:

  – the systems only circulate air within a space.
  – the systems have safety features which autonomously and reliably prevent negative pressure in the installation space.
  – simultaneous operation of the fireplace and the air-extracting system is prevented by safety features.
  – the flue gas routing is monitored by a particular piece of safety equipment.

Floor load-bearing capacity

Before installing, verify whether the load-bearing capacity of the substructure can withstand the weight of your hybrid stove.

- The installation surface for the hybrid stove must have an appropriate load-bearing capacity. If an existing design does not fulfil this condition, suitable measures (e.g. a plate for distribution of the load) must be taken to meet it.

7.2 Chimney requirements

To protect your own safety, national and local regulations exist governing the connection of flue pipes to the chimney. Your hybrid stove is set up at the factory for connecting to 130 mm flue diameter / top. With minor modifications on site it can also be connected at the rear. When connecting with other pipe diameters, you should obtain the prior approval of your chimney sweep. Your specialist hybrid stove dealer will be familiar with the guidelines. For your own safety the flue connection should be carried out by a specialist.

7.3 Combustion air / Outside air supply

This hybrid stove requires sufficient combustion air to operate smoothly. With dense building envelopes, the room air is insufficient. For this reason, the combustion air required must be supplied from outside.

Your hybrid stove is prepared for this situation (balanced flue operation). The external air supply pipe must be connected tightly to the stove (e.g. a pipe clamp or airtight adhesive tape). Your dealer will advise you on the correct connection.

8 Fuel material/-quantity

8.1 Fuel material

Fig. 8: Pellet

Fig. 9: ENplus A1

Pellets

Poor pellet quality will cause significant residues in the hybrid stove when burnt. We therefore urge the use of pellets that have no artificial binding agents. That way only a small unburnt residue is left.

ENplus-A1 certified pellets meet this requirement.

When storing the pellets it is vital to ensure that they are stored in a cool dry place free of contamination. Damp and dirty pellets result in poor combustion and block the screw conveyor.

NOTICE

The use of inferior-quality pellets or other material will damage the working of your hybrid stove and void the guarantee and warranty.

Fig. 10: Log

Log

Use only dry untreated wood.

The wood moisture should be < 15 %.

Basically the quantity of log inserted determines the heat output given off. If significantly too much wood is inserted, this can lead to overheating and damage to the stove. Damp wood causes poor combustion and poor exhaust gas values as well as contaminating the viewing window and exhaust gas pipes.

You can find the suitable quantity of log for your stove model in the data sheet.

Approved fuel

Pellets are allowed for our hybrid stove. Dry, properly stored, unrefined log (preferably hard wood) is also an optional fuel for our hybrid stoves.

Round wood must be split at least once so that it lights better. The diameter of the split piece of wood must not exceed 7 cm.

Explosive substances

It is strictly forbidden to burn or introduce highly flammable or explosive substances (such as empty aerosols and the like) into the firebox or to store them in the immediate vicinity of your hybrid stove due to the risk of explosion!

Fuel

Only burn the recommended fuel.

8.2 Fuel quantity

Maximum fuel quantity

Every hybrid stove is designed for a maximum fuel quantity: see Technical Data [▸on page 16] section. Larger fuel quantities lead to overheating and damage to the hybrid stove!

NOTICE

To avoid damage you must **NEVER** operate your hybrid stove with a greater quantity of fuel than that specified in these user instructions!

9 Installation

Installation must only be carried out by an authorized specialist company.

Before installing the hybrid stove, check that all movable parts are working. Any defects before the installation of the hybrid stove must be reported.

9.1 Risks and hazards

Protective equipment

	Safety gloves

9.2 Procedure

9.2.1 Mounting the steel cladding

The following work equipment is required for this step:

Work equipment	Activity
Fork wrench set	Various installation jobs
Torx wrench set	Various installation jobs
Socket wrench set	Various installation jobs
Needle-nosed pliers	Various installation jobs
Tape measure	Various measuring jobs

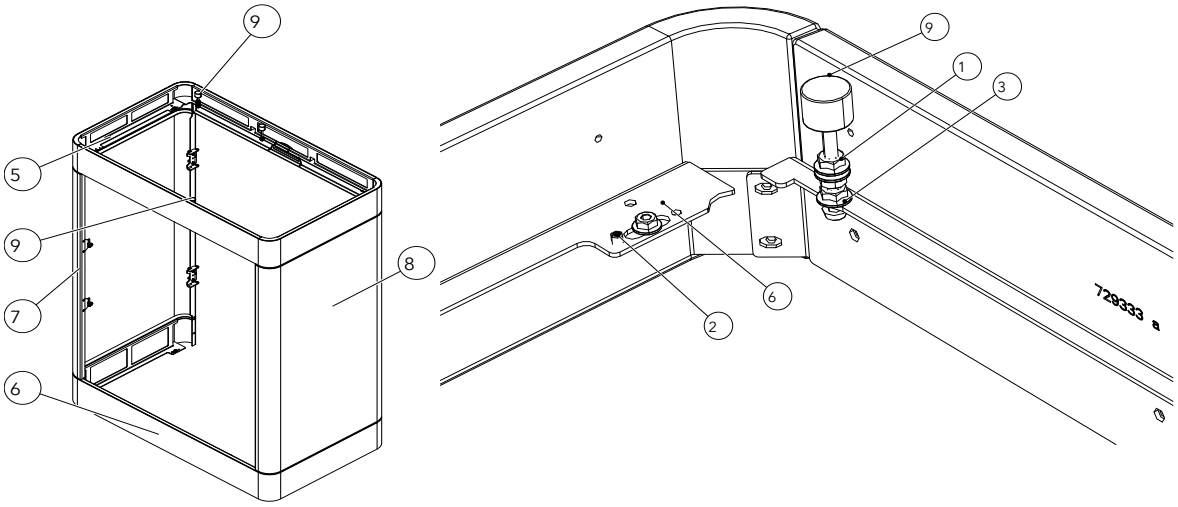


Fig. 11: Steel cladding individual components

Item	Qty	Item	Article no.
1	4	Fillister head screw with socket head M6x50	718043-92
2	8	Grub screw with hex and eyebolt M5x8	718199-92
3	8	Hexagon nut with flange, M6	718740-92
4	8	Hexagon nut with flange, M5	723916-92
5	1	Cladding cover welded	729850-29
6	1	Cladding base welded	729855-29
7	1	Cladding left	729862

Item	Qty	Item	Article no.
8	1	Cladding right	729868
9	4	Silicon metal buffer	772099

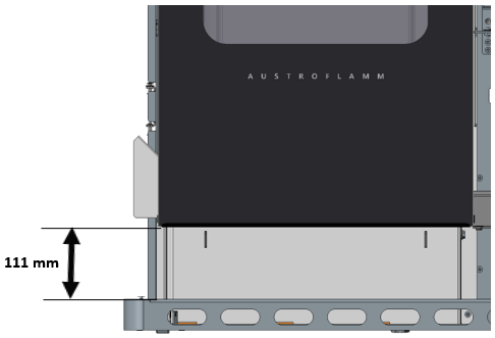


Fig. 12: Checking the distance

1) Check the distance of 111 mm, if necessary adjusting the door before continuing.

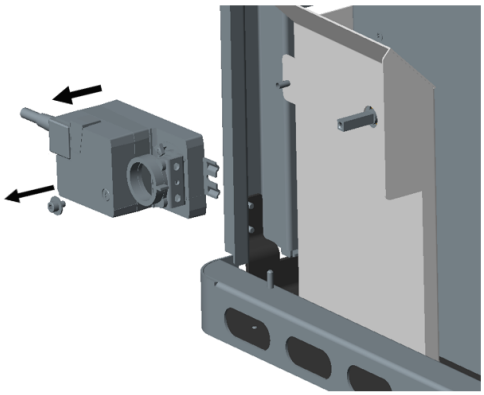


Fig. 13: Removing the grate motor

2) Remove the grate motor (M5/SW8).

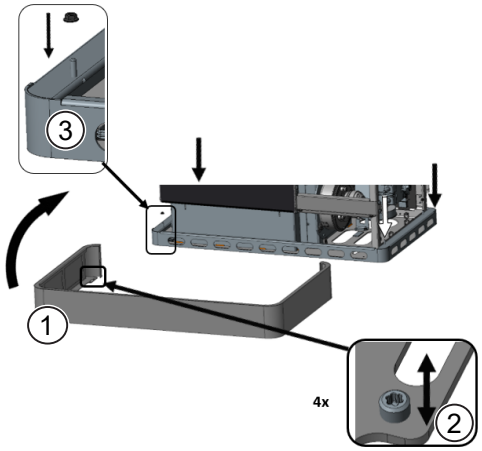


Fig. 14: Mounting and aligning the cladding base

3) Mount cladding base (1).
4) Align the base with the four adjusting screws (2) (TX10) on the stove body.
5) Mount and tighten four nuts (3) (M5/SW8).

Fig. 15: Aligning the cladding base

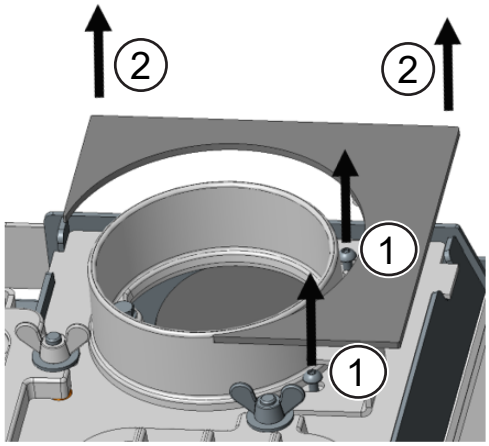


Fig. 16: Undoing the screws - removing the cover

6) Undoing both screws (1) (TX25) and removing the top cover (2)

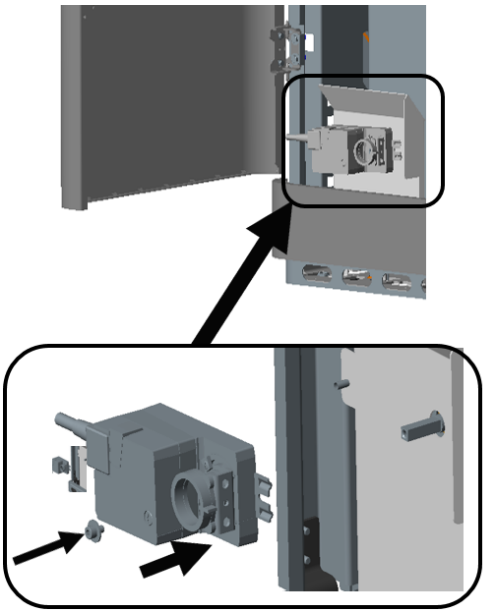


Fig. 17: Installing the grate motor

7) Install grate motor (M5/ SW8).

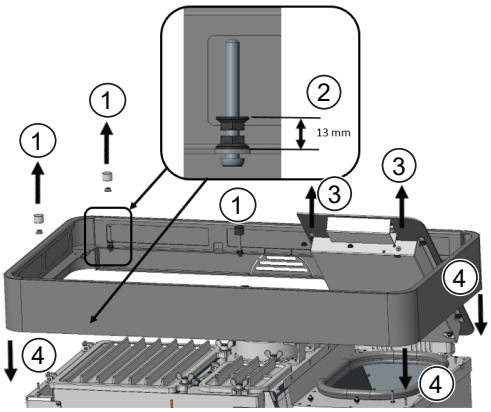


Fig. 18: Mounting the silicon metal buffers

8) Remove all the silicon metal buffers (1).
9) Adjust the distance (2) to 13 mm (M5/SW8).
10) Lift the hopper lid (3) and use a suitable object to keep it in the half-open position.
11) Mount cladding cover (4).

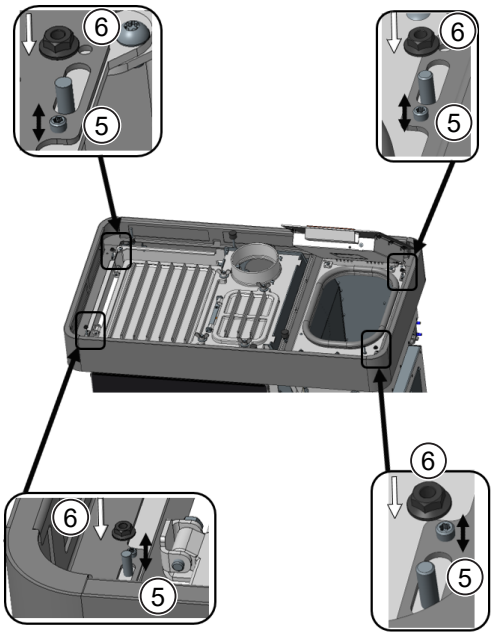


Fig. 19: Aligning and tightening

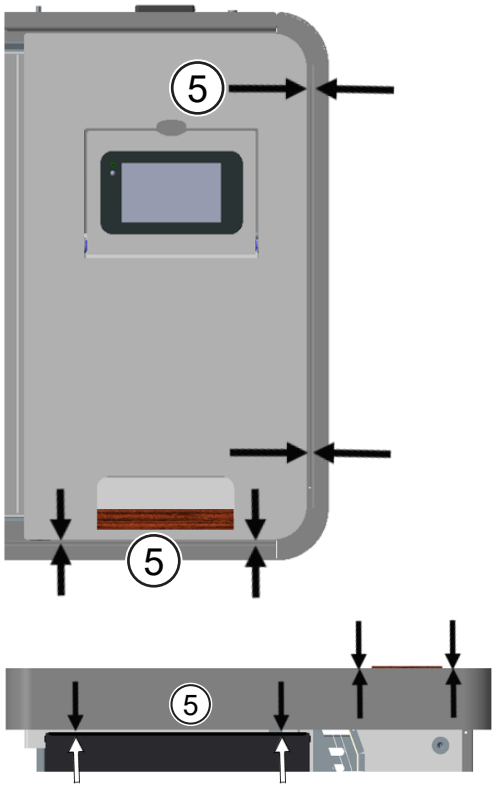


Fig. 20: Result

12) Use the adjusting screws (5) (TX10) to align the cladding cover and the hopper lid.
13) Mount and tighten the four nuts (6) (M5/SW8).

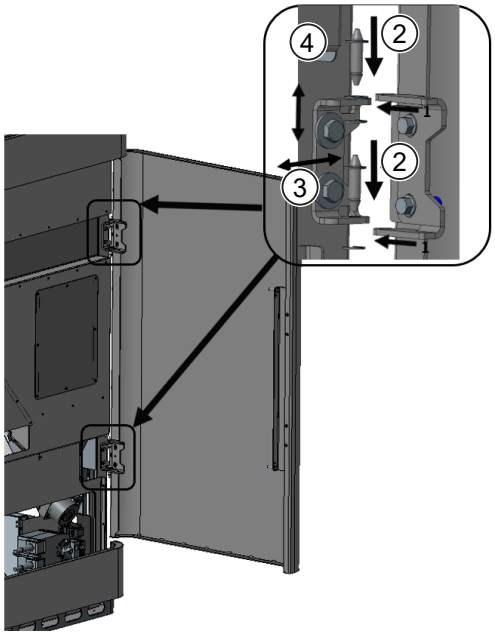


Fig. 21: Mounting and aligning the cladding right

14) Position the cladding right as illustrated on the stove body.
15) Insert hinge pins (2).
16) Align cladding right to the stove body by adjusting the hinges (3+4).

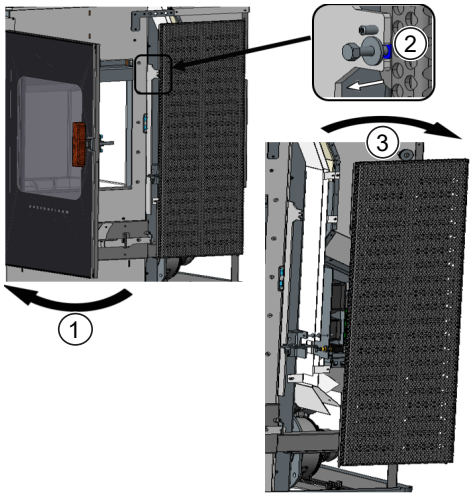


Fig. 22: Removing cladding front

17) Open door (1).
18) Undo screws (2) (M5/SW8).
19) Remove cladding front (3).

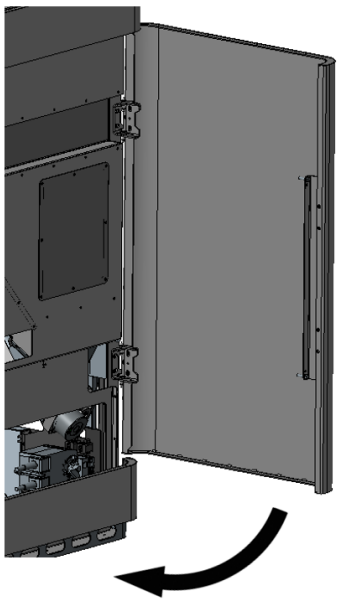


Fig. 23: Closing cladding right

20) Close Cladding right.

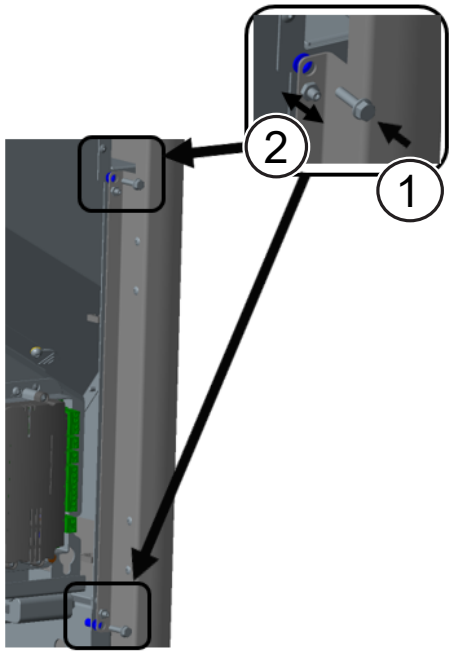


Fig. 24: Aligning cladding right

21) Loosely screw in screws (1) (M5/SW8).
22) Using the adjusting screws (2) (TX10), align the cladding right on the stove body.
23) Tighten the screws (1) (M5/SW8).

Fig. 25: Cladding aligned

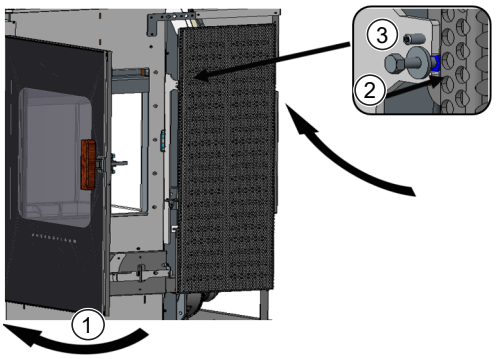
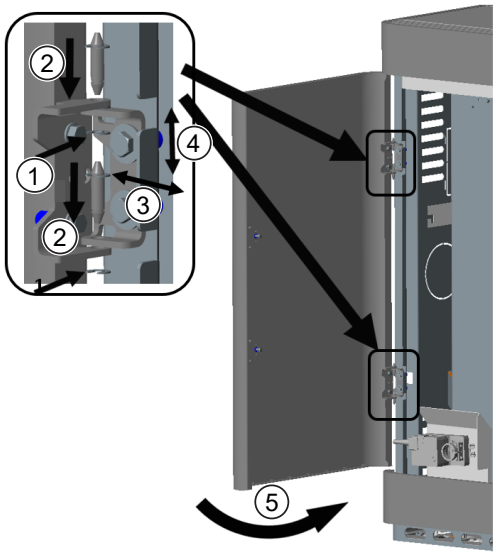


Fig. 26: Mounting cladding front steel plate

24) Open door (1).
25) Attaching cladding front and loosely screwing in the screw (2) (M5/SW8)
26) Align cladding front using adjusting screws (3) (TX10) and tighten the screw (2) (M5 SW8).



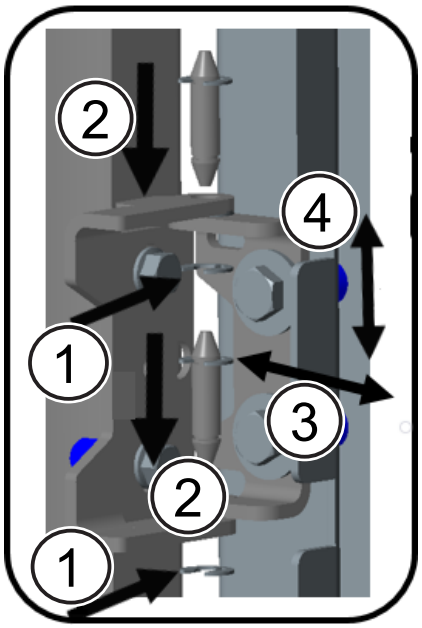


Fig. 27: Mounting and aligning left steel plate

27) Position the cladding left as illustrated on the stove body.
28) Inserting the four hinge pins (2)
29) Align cladding left to the stove body by adjusting the hinges (3+4).
30) Close cladding left.

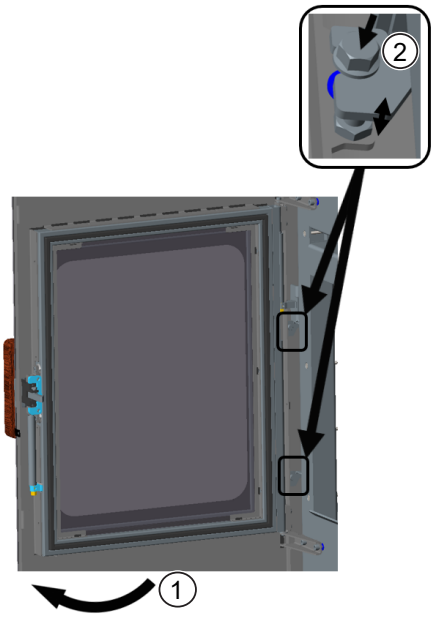


Fig. 28: Fixing left side

Fig. 29: Result

31) Open door (1).
32) Loosely screw in both the screws (2) (M5/SW8).
33) Using the adjusting screws (TX10), align the cladding left on the stove body.
34) Tighten both the screws (2) (M5/SW8).

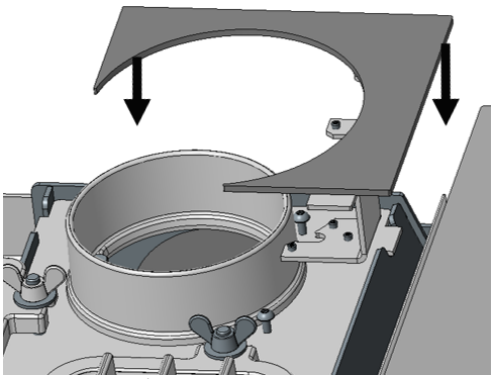


Fig. 30: Attaching cover

35) Attach top cover and fasten the two screws (TX25).

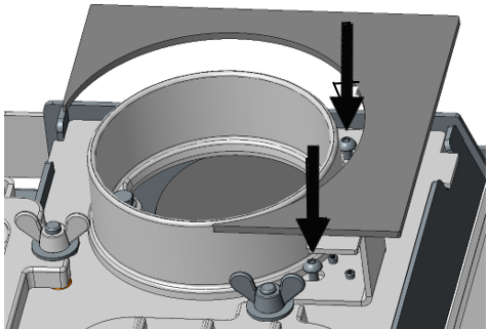


Fig. 31: Fastening the screws (TX25)

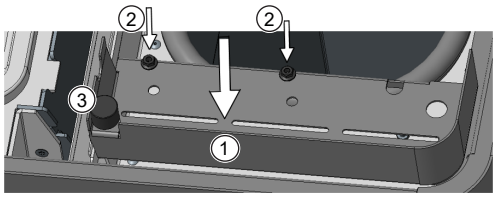


Fig. 32: Mounting the hopper trough

36) Mount the hopper trough (1) and fasten with the two nuts (2) (M5/SW8).
37) Attach silicon metal buffers (3) (M6/SW10) and align the hopper cover.
38) Check the functioning of the hopper lid switch (audible click sound when opening/closing).

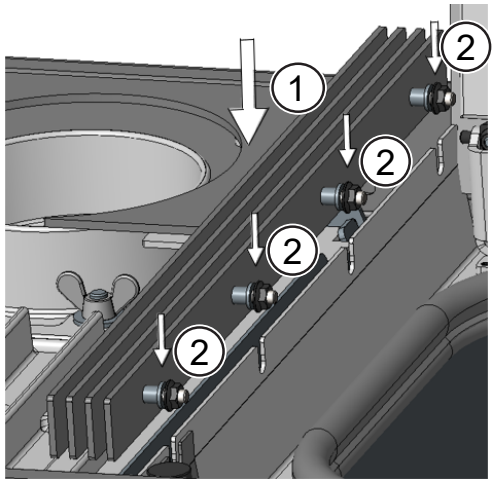


Fig. 33: Mounting convection lamella right

39) Mounting convection lamella right (1).
40) Tighten the four nuts (2) (M6/SW10).

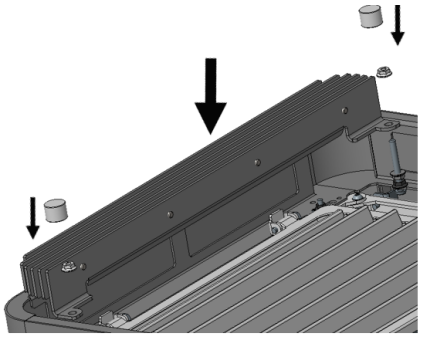


Fig. 34: Attaching and fastening the silicon buffers

41) Inserting convection lamella left and fastening with the two nuts (M6/SW10)

42) Mounting and correctly aligning the silicon metal buffers (M6/SW10)

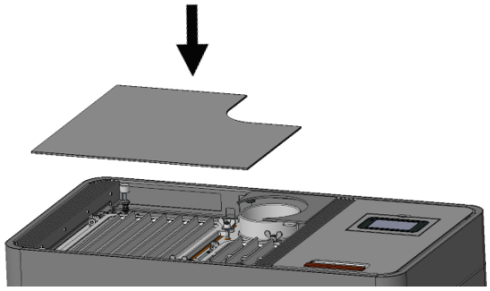


Fig. 35: Inserting the window inlay cover

43) Insert window inlay cover.

9.2.2 Mounting the ceramic cladding

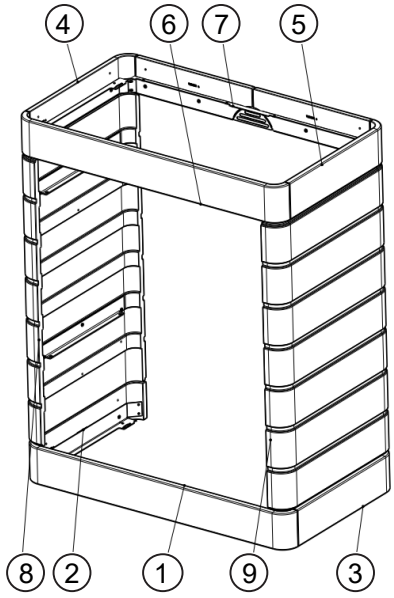


Fig. 36: Ceramic cladding overview

Item	Qty	Item	Item no.
1	1	Lower cladding front	729900
2	1	Lower cladding left	729901
3	1	Lower cladding right	729902
4	1	Upper cladding left	729903
5	1	Upper cladding right	729904
6	1	Upper cladding front	729905
7	1	Upper cladding rear	729906
8	1	Cladding left	729907
9	1	Cladding right	729908

Frame

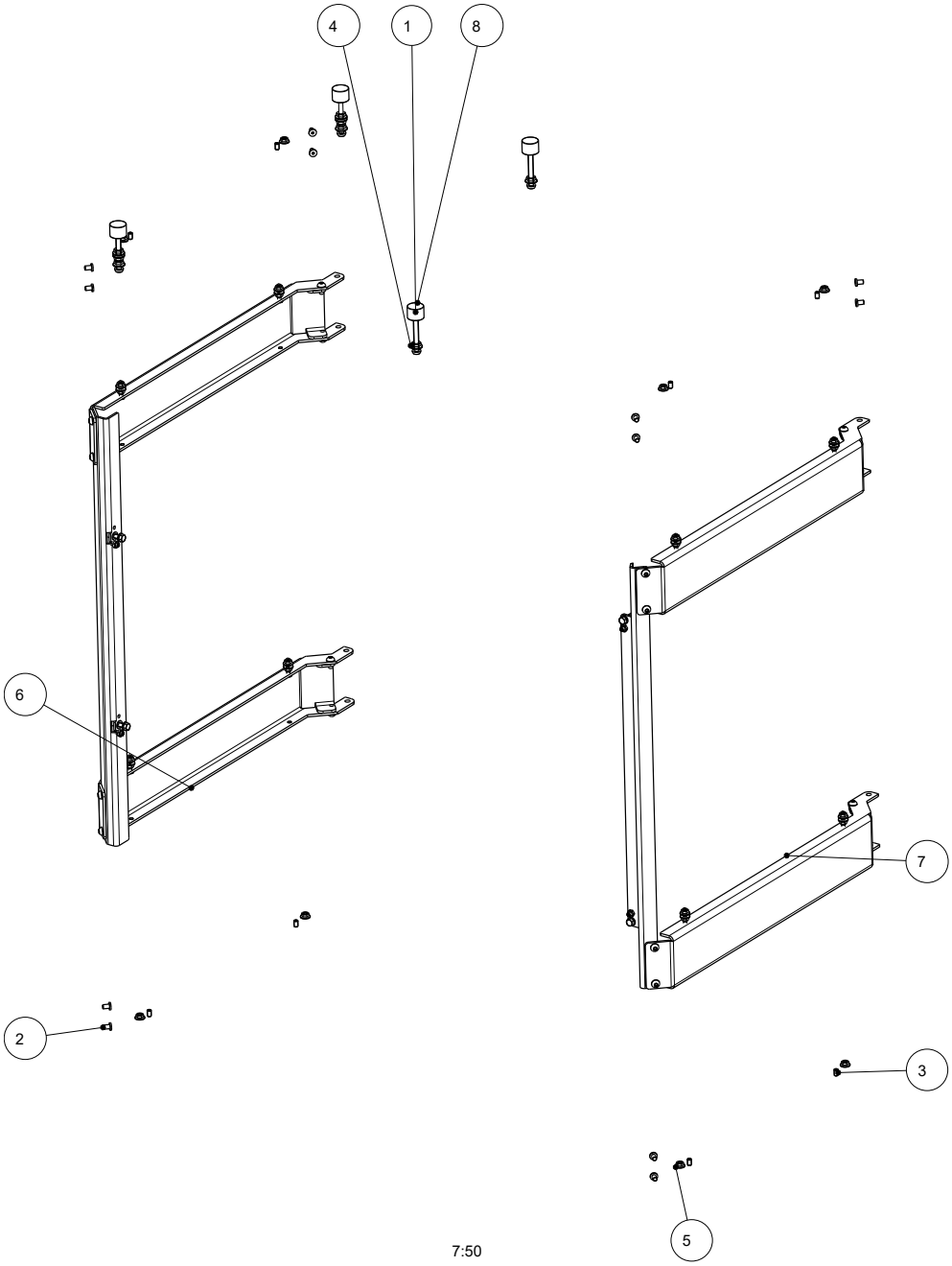


Fig. 37: Frame overview

Item	Qty	Item	Item no.
1	4	Fillister head screws with hexagon head M6x50 ISO7380	718043-92
2	12	Cheesehead bolts with socket head (very low head) M5x8 BN1206	718045-92 1
3	8	Grub screw with hex and eyebolt M5x8 DIN916	718199-92 1
4	8	Hexagon nut with flange, M6 DIN6923	718740-92
5	16	Hexagon nut with flange, M5 DIN6923	723916-92
6	1	Support bracket installed on the left	729844 3
7	1	Support bracket installed on the right	729845
8	4	Silicon metal buffer	772099

Convection lamella, left

Item	Qty	Item	Item no.
1	1	Convection lamella installed on the left	729211-29

Convection lamella, right

Item	Qty	Item	Item no.
1	1	Convection lamella installed on the right	729212-29

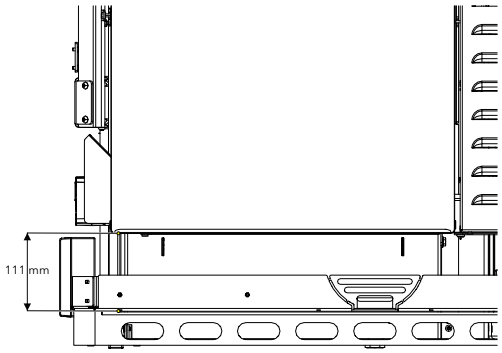


Fig. 38: Checking the distance

1) Check the distance of 111 mm, if necessary adjusting the door before continuing.

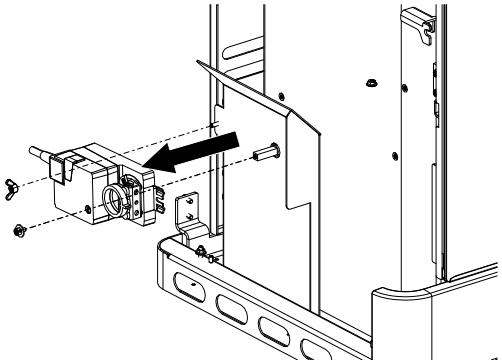


Fig. 39: Removing the grate motor

2) Remove the grate motor (M5/SW8 and T25).

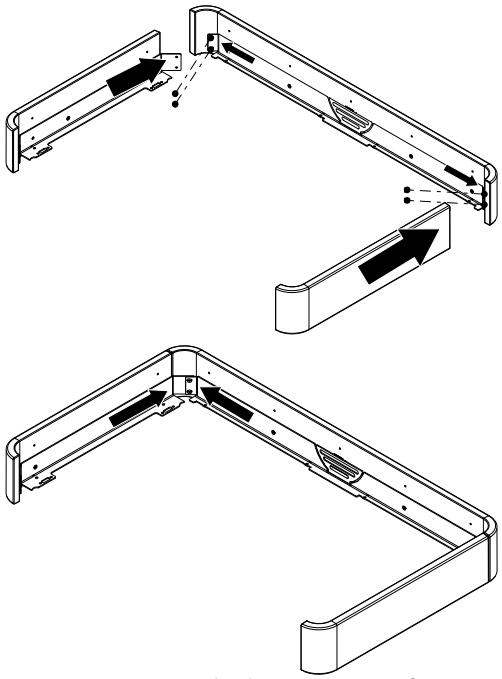


Fig. 40: Mounting the lower ceramic frame

3) Mount lower ceramic frame (position 1, 2, 3).
4) Align and tighten the four screws (Allen key 3).

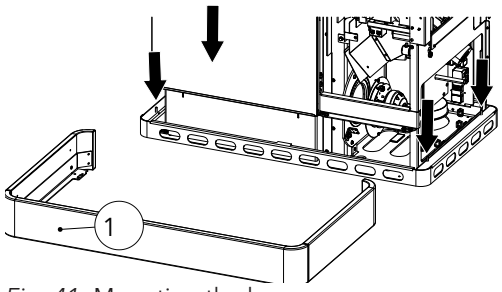


Fig. 41: Mounting the base.

5) Mount base (1).

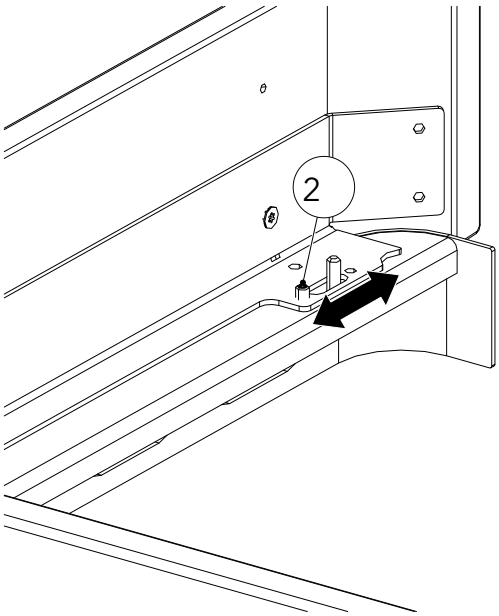


Fig. 42: Aligning the base

6) Align the base with the four adjusting screws (2) (TX10) on the stove.

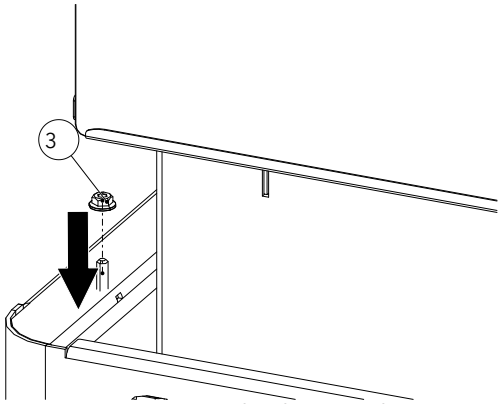


Fig. 43: Mounting and tightening the nuts

7) Mount and tighten four nuts (3) (M5/SW8).

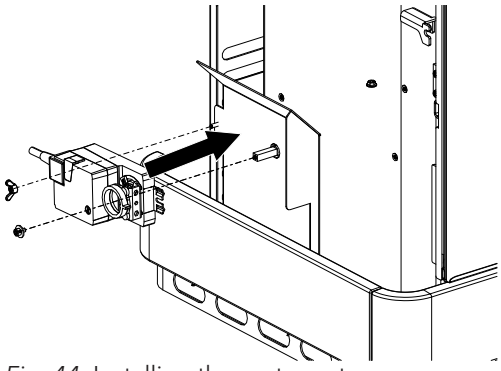


Fig. 44: Installing the grate motor

8) Install grate motor (M5/SW8 and TX25).

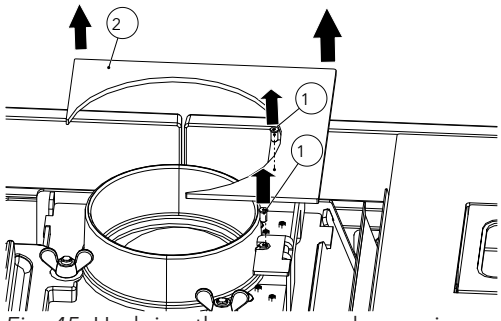


Fig. 45: Undoing the screws and removing the cover

9) Undo both screws (1) (TX25) and remove the cover (2).

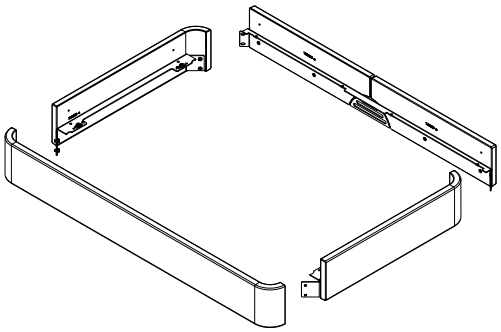


Fig. 46: Mounting the upper ceramic frame

10) Mount upper ceramic frame (position 4, 5, 6, 7).

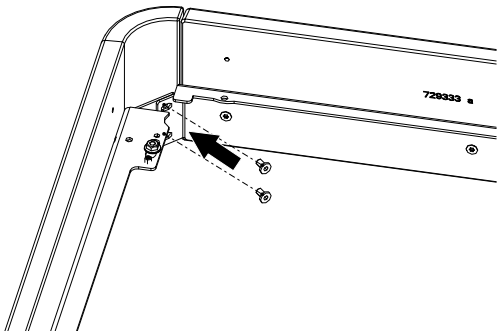


Fig. 47: Aligning the eight screws

11) Align and tighten eight screws (Allen key 3).

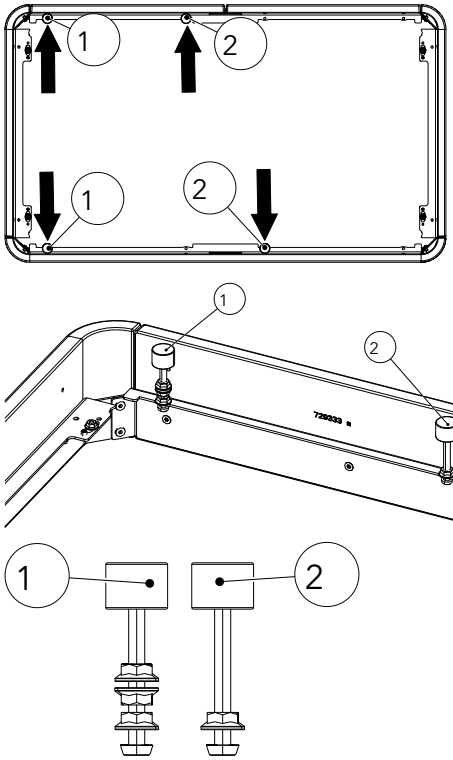


Fig. 48: Mounting the screws, nuts and silicon metal buffer

12) Mount screws, nuts and silicon metal buffer.

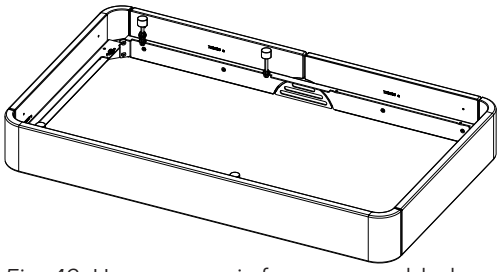


Fig. 49: Upper ceramic frame, assembled

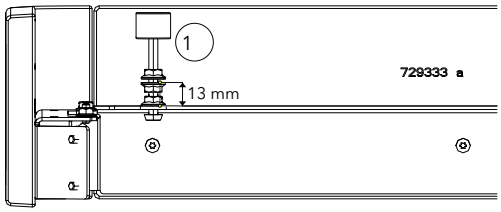


Fig. 50: Distance to 13 mm

13) Check and adjust the distance (1) to 13 mm (M5/SW8).

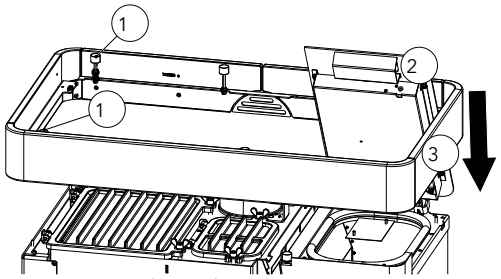


Fig. 51: Attaching the upper ring

14) Lift the hopper lid (2) and use a suitable tool to keep it in the half-open position.
15) Attach upper ring (3).

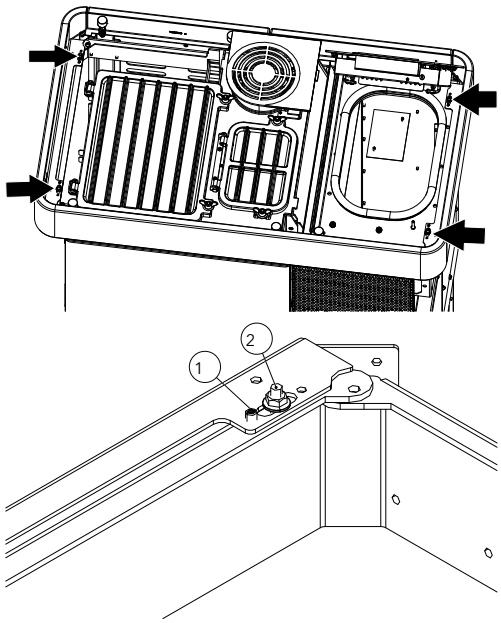


Fig. 52: Aligning the upper ring

16) Use the adjusting screws (1) (TX10) to align the upper ring and the hopper lid.
17) Mount and tighten the four nuts (2) (M5/SW8).

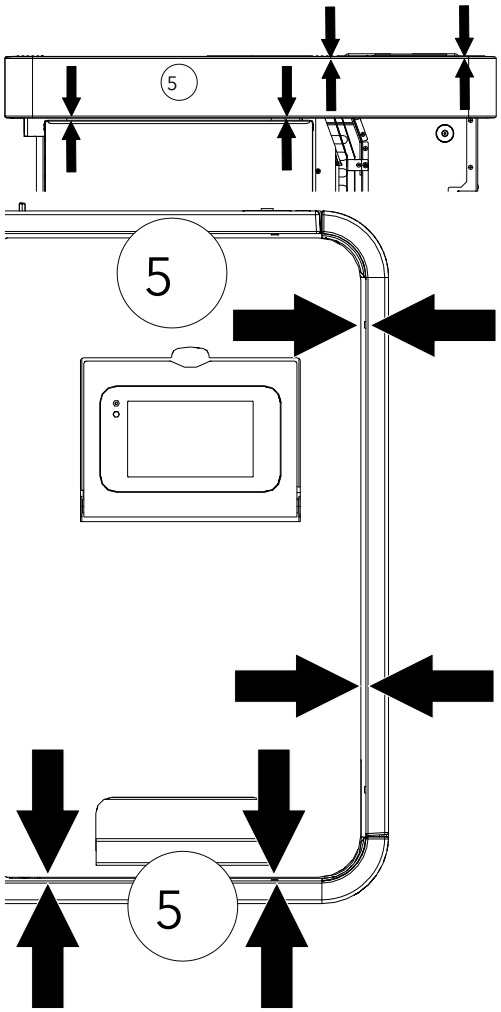


Fig. 53: Aligning the upper ceramic frame

18) Use the adjusting screws (TX10) to align the upper ceramic frame and the hopper cover (5).

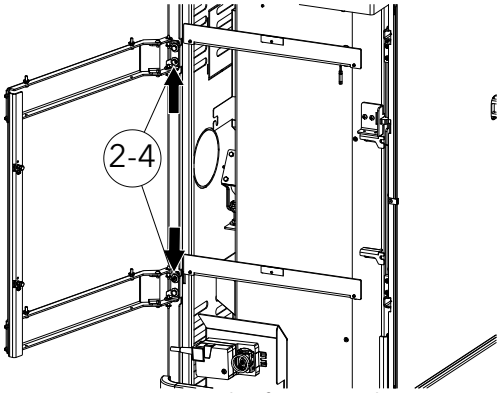


Fig. 54: Positioning the frame on the stove

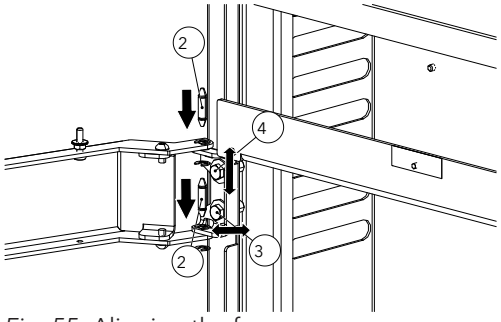


Fig. 55: Aligning the frame

19) Position frame on the stove.
20) Insert hinge pins (2).
21) Align the frame with hinges (3+4).
22) Repeat the three previous steps in order to position and align the frame on the other side of the stove.

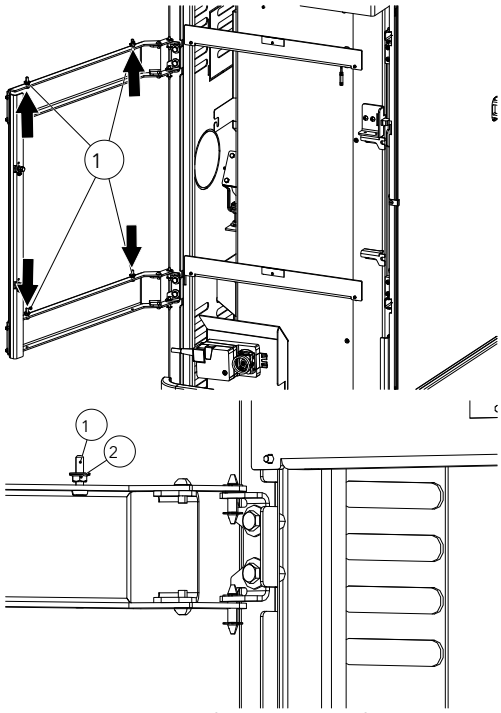


Fig. 56: Mounting the screws and nuts

23) Mount four screws (1) and four nuts (2) but do not fully tighten them.
    ⇨ These screws are only tightened after the ceramic cladding has been mounted and correctly positioned.
24) Repeat the previous step in order to mount the screws and nuts on the frame on the other side.

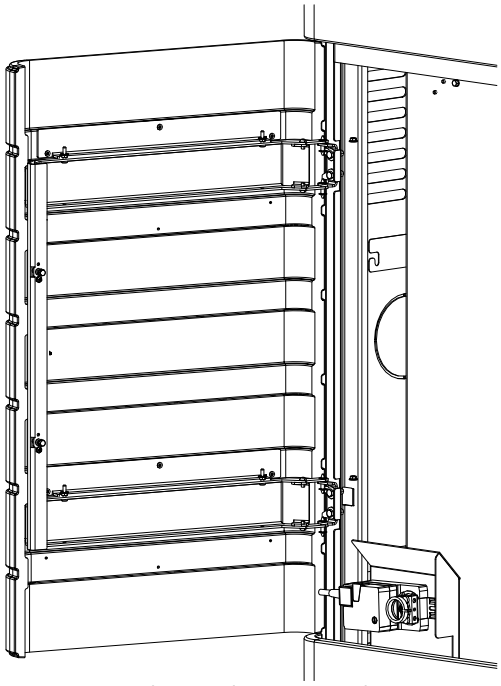


Fig. 57: Attaching side ceramic tiles

25) Attach the side ceramic tiles to the frame.
26) With screws and nuts, first align and then tighten the screws.

27) Open door.

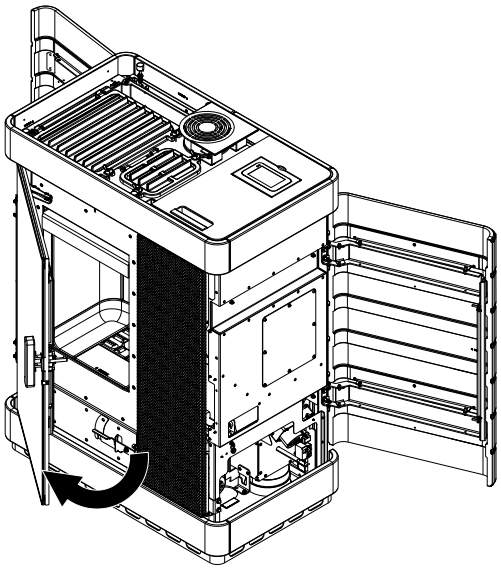


Fig. 58: Opening the door

28) Undo screws (M5/SW8).

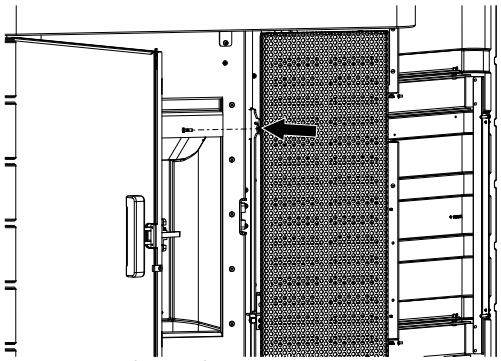


Fig. 59: Undoing the screws

29) Remove cladding front (3).

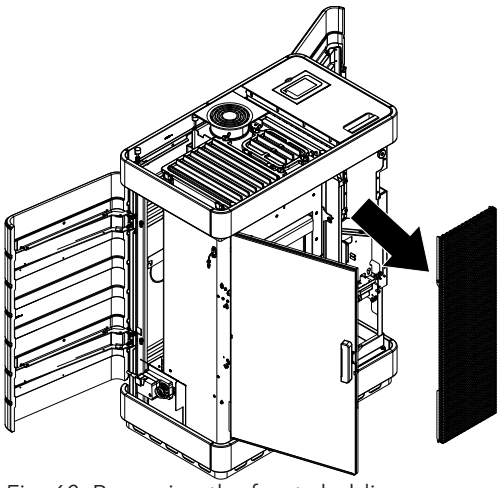


Fig. 60: Removing the front cladding

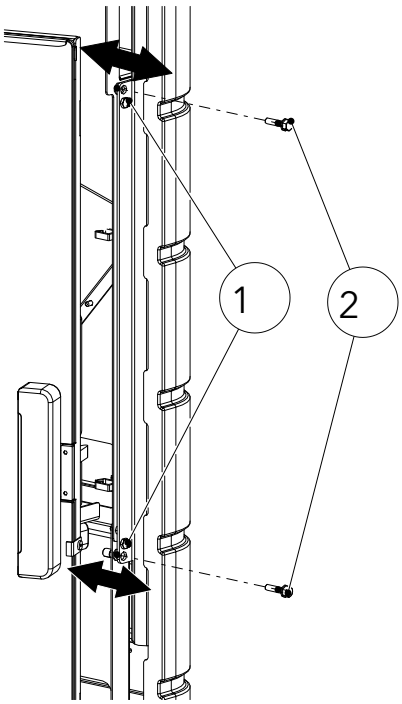


Fig. 61: Aligning the ceramic tiles

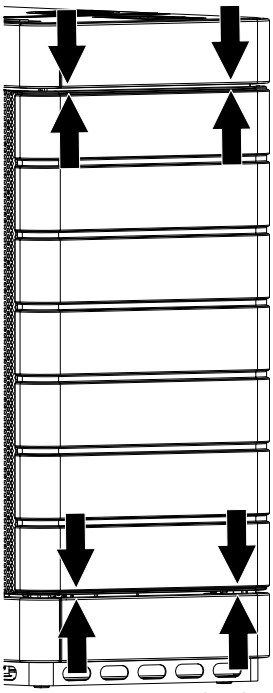


Fig. 62: Ceramic tile aligned

30) Insert the screws (1) (M5/SW8).
31) Using the adjusting screws (2) (TX10) align the ceramic tiles on the stove so as to achieve the result shown.
32) Fix the ceramic tile with two screws (1) (M5/SW8).

33) Open door.

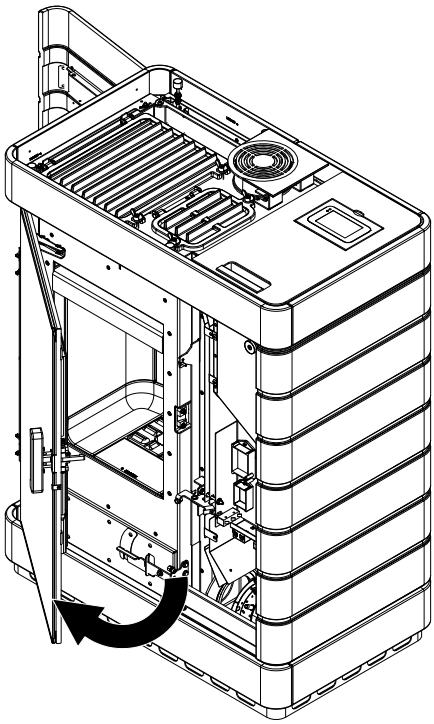


Fig. 63: Opening the door

34) Put on the front cladding and loosely turn in the screws.

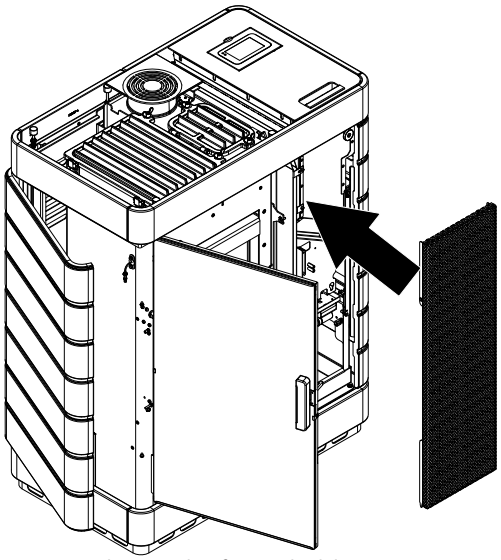


Fig. 64: Placing the front cladding on

35) Align cladding with adjusting screws (3) (TX10) and tighten the screw (2).

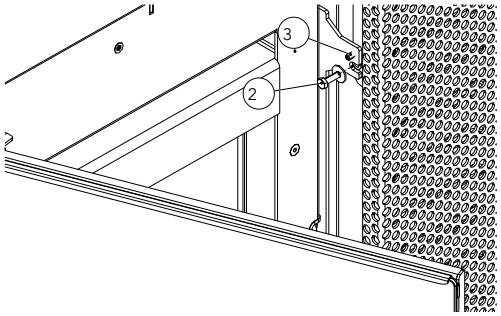


Fig. 65: Aligning the cladding

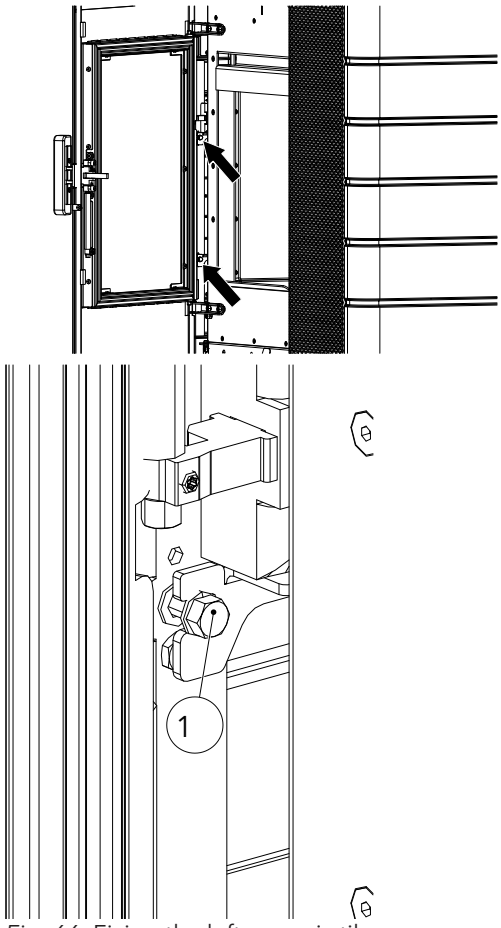


Fig. 66: Fixing the left ceramic tile

36) Open door and fix the left ceramic tile with two screws (1) (M5/SW8).

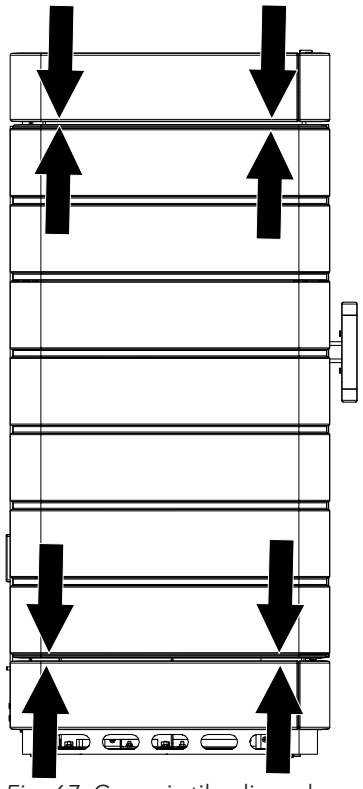


Fig. 67: Ceramic tile aligned

37) Align ceramic tile as shown here.

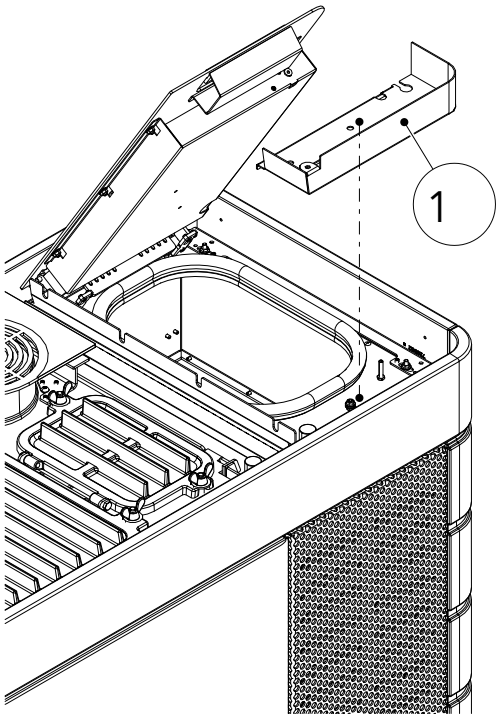


Fig. 68: Mounting the hopper trough

38) Mount the hopper trough (1) and fasten with the two nuts (2) (M5/SW8).
39) Attach silicon metal buffer (3) (M6/SW10) and align the hopper cover.
40) Check the functioning of the hopper lid switch (audible click sound when opening/closing).

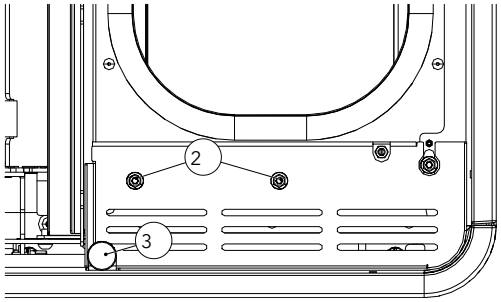


Fig. 69: Attaching the nuts and silicon metal buffer

41) Mounting convection lamella right (1).
42) Tighten the four nuts (2) (M6/SW10).

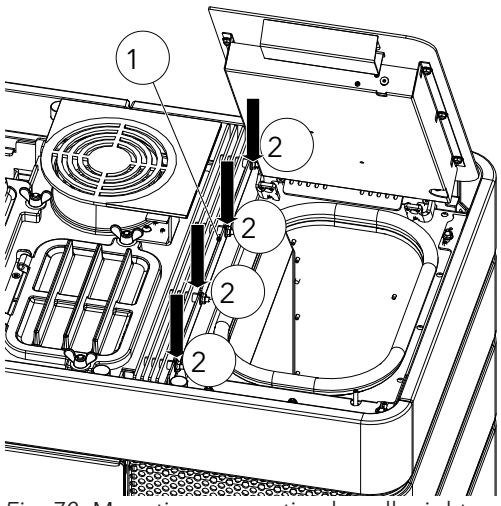


Fig. 70: Mounting convection lamella right

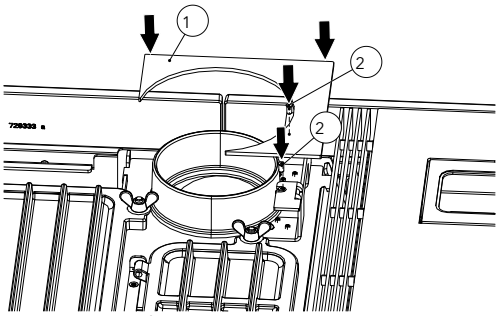


Fig. 71: Attaching cover

43) Attach top cover (1) and fasten the two screws (2) (TX25).

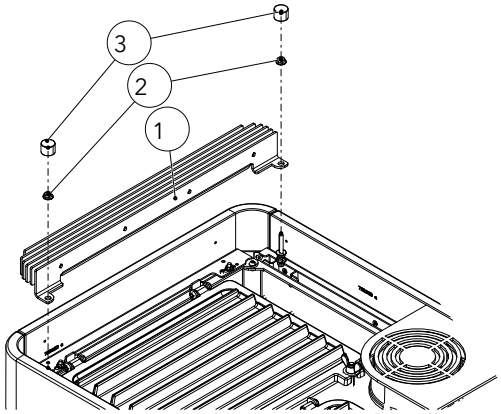


Fig. 72: Mounting the convection lamella on the left

44) Insert convection lamella (1) left and mount with the two nuts (2)(M6/SW10).

45) Mount and correctly align the silicon metal (3) buffer (M6/SW10).

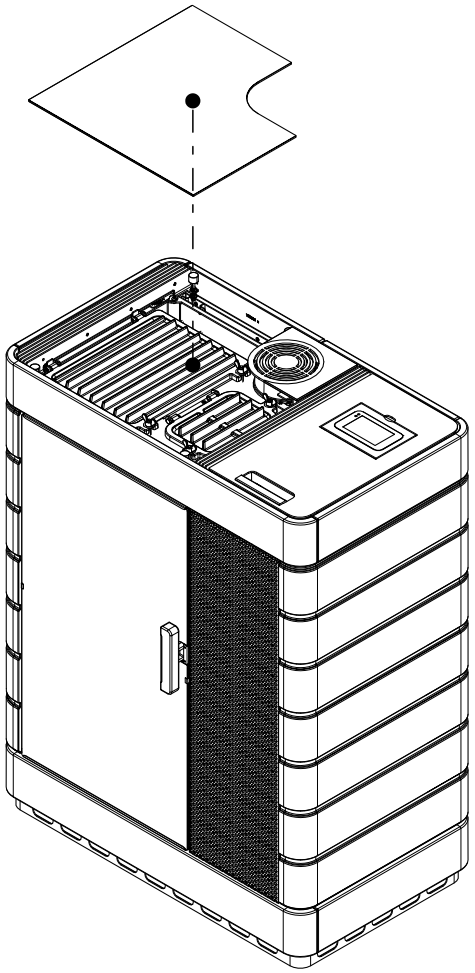
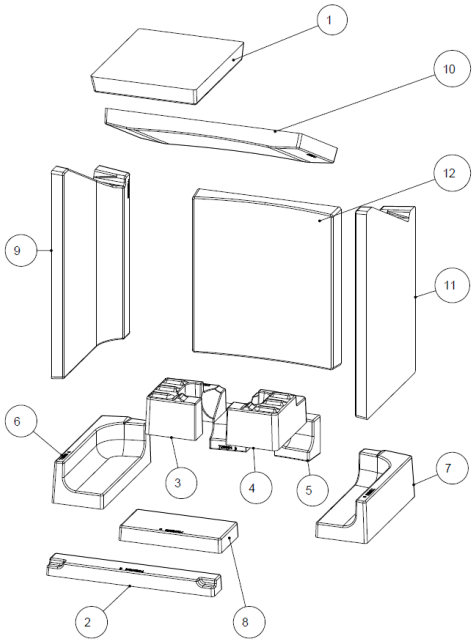


Fig. 73: Inserting the window inlay cover

46) Insert window inlay cover.

9.2.3 Mounting the firebox lining (Keramott)

Numbering = installation sequence



10 Operation

10.1 Requirements for operation

External combustion air supply

Every combustion requires oxygen. This is drawn from the environment of the heating appliance.

In modern buildings the outside covering is very thick. Therefore there is an insufficient flow of fresh combustion air. In such cases the supply of external combustion air is necessary. This is required even with the use of aeration and ventilation systems in the home.

NOTICE

The combustion air connection is marked on the rear of the appliance with a supply air symbol.

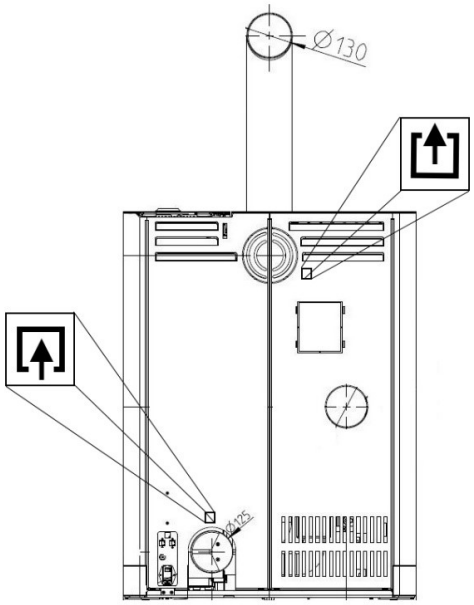


Fig. 74: Combustion air supply connection

On some appliance models, connection via the floor is also possible.

A pipe or hose of Ø 125 mm must be used for connecting the external combustion air supply. The length of the pipe or hose should be no longer than 5 m. This supply line must have no more than three bends.

Provision must be made for adequate provision of combustion air and air for ventilation. The air grille for providing combustion air must not be accidentally disabled while the heating appliance is operating.

Lack of combustion air causes poor combustion, and increased soot formation and volume of ash.

Connection to the chimney

The information in this manual is of a general nature. National and European standards, local and building regulations, together with fire regulations must also be complied with.

The stove must be connected to a chimney approved by the chimney sweep. Penetration of condensation into the stove must be avoided.

NOTICE

The flue pipe connection is marked on the rear of the appliance with an exhaust gas symbol

The flue pipe connection must be executed in accordance with the technical data sheet.

- The chimney must be designed in accordance with the stove's technical data (see Technical data [▶ on page 16]).

- The horizontal length of the exhaust pipe must not exceed 2.5 m.
- A maximum number of 3x90° bends must not be exceeded. Each bend must have a cleaning aperture.
- The chimney must be resistant to condensation.
- The chimney must provide at least 3-12 Pa draught in order to be able to adequately draw off exhaust gases even in the event of a power failure.

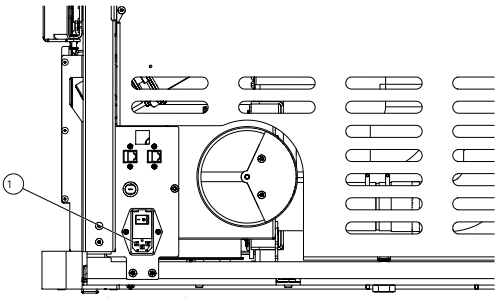


Fig. 75: Electrical connection

Electrical connection

Your stove is designed for connection to a 230 V / 50 Hz mains. The connection cable is included.

The mains socket connection (1) is located on the rear of the appliance and is protected with a T2.5 A glass tube fuse.

The power consumption of your appliance is visible on the nameplate.

10.2 Functional diagram of your hybrid stove

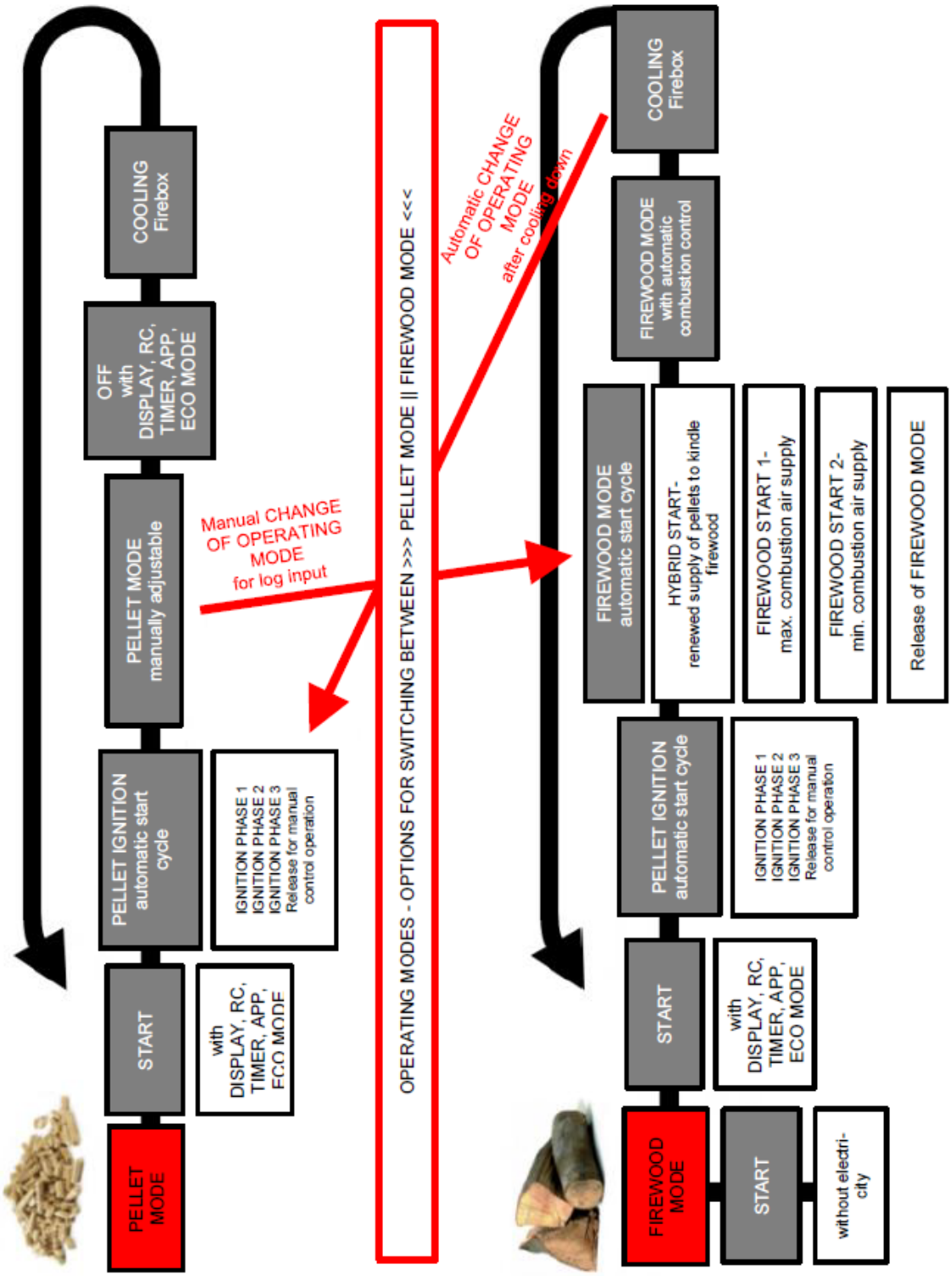


Fig. 76: Functional diagram

10.3 Operating modes

10.3.1 Pellet operation

Fig. 77: Automatic ignition

Automatic ignition

The stove can be started with the start/stop button on the status display or heat output display.

As an option it can be started via IR remote control or via the app. Ignition of the pellets is fully automatic and takes place in several phases. These phases are shown on the display (riddling grate placement - combustion pot filling - ignition phase 1 - firebox temperature build-up - ignition phase 2 - ignition control - ignition phase 3 - release and control by user - full fire phase).

Ignition is cancelled by pressing the start/stop button during the ignition phase. An “E102” error message appears if ignition is cancelled.

Fig. 78: Pellet operation

Pellet operation

In pellet operation, pellet quantity and combustion air are supplied according to the set heat output.

The desired room temperature must be set in the room temperature display. If this is reached, the stove automatically regulates to the lowest output level or switches OFF if the ECO function is enabled (see Settings/ECO mode).

Pressing the stop button switches the stove into burnout phase.

The current room temperature is measured using a cable-attached temperature sensor on the back of the appliance.

In pellet operation, a fluctuating chimney draught or increasing contamination of the exhaust gas pipes is automatically balanced by the exhaust gas fan.

If during the pellet operation the door is opened and closed again, the stove switches into hybrid start.

10.3.2 Log operation

Log heat output setting - quantity of wood

The heat output setting affects the automatic combustion. In order to guarantee correct combustion, the output must be chosen to match the inserted quantity of wood.

Output level 1: Conservation of embers (no combustion of log)

Output level 2: approx. 1.0 kg wood

Output level 3: approx. 1.4 kg wood

Output level 4: approx. 1.7 kg wood

Output level 5: approx. 2.0 kg wood

Fig. 79: Hybrid start

Hybrid start

Hybrid start is used for igniting the logvia pellet ignition. In hybrid start, pellets are fed in and the damper doors for the supply of combustion air are opened. This ensures the optimum burning of the inserted log.

TIP

Ensure that the combustion cavity is not completely covered with log (danger of deflagration).

After a few minutes the stove switches to the “Log start I” operating phase in order to further kindle the log.

If during the hybrid start the door is opened and closed again and the “NO” is pressed on the display, the stove switches back into pellet operation.

Fig. 80: Log start I

Log start I

After the hybrid start has finished, the stove switches to this operating phase. Here it is ensured that all the pellets in the combustion cavity are burning and the log is further kindled.

If the door is opened and closed again while the stove is in a non-operating condition (and the question “Have you inserted log?” on the display.has been answered with “Yes”), the stove switches to the “Log start I” operating status.

In this operating phase, all damper doors are fully opened and the exhaust gas fan runs at a specified speed. After a certain firebox temperature has been reached and a certain time has finished, “Log start II” is switched to.

If no temperature increase is detected, after a few minutes the stove automatically switches again to the OFF state. The stove does however note that log has been inserted (a small green symbol is shown on the display). After the next pellet ignition the stove automatically switches to hybrid start.

Fig. 81: Log start II

Log start II

In this operating status the riddling grate is opened after approx. 2 minutes and thus the primary damper door closed and the log further kindled until a certain firebox temperature (depending on the set output level) is reached. If this is reached, the stove switches into “Log operation” status.

Fig. 82: Log operation

Log operation

In this operating status the stove automatically controls the combustion of the log.

Depending on the output set the stove will try to maintain a specific firebox temperature. If this cannot be achieved, in the background (not visible on the display) the next lower output level is automatically switched to. This way an optimal combustion and the longest possible conservation of embers in the burnout is achieved.

TIP

Output level 1 is not suitable for the combustion of freshly inserted log. This level is only intended for the longest possible conservation of embers.

If you change the heat output on the display, the combustion regulation is set again to the set output.

If the firebox door is opened and closed again, the query

"Have you inserted log?" appears on the display.

If you answer "yes", then the "Log start II" status is switched back to, which ensures the burning of the new log.

If you answer "no", then the stove remains in the log operation status. Control continues without firing new log.

If no more log is stoked up, the stove automatically switches to burnout and finally closes the damper doors.

If at this point the stove is still switched on and the set room temperature still not reached, then the stove automatically starts up again in pellet operation.

Log operation without electricity

In an emergency the stove can also be heated with log without electricity. In this emergency operation the secondary air damper is always fully opened. Manual control is not possible.

NOTICE

Operation without electricity requires a chimney draught of at least 12 Pa.

When kindling, use sufficient wood and during heating insert correctly sized logs.

11 Operation

11.1 Operation using APP and Smartphone

Please refer to the manual for your WLAN module for instructions on installing and setting up the data connection, or follow the installation instructions for the Austroflamm PelletControl app.

Download the required “Austroflamm PelletControl” app here and then start:

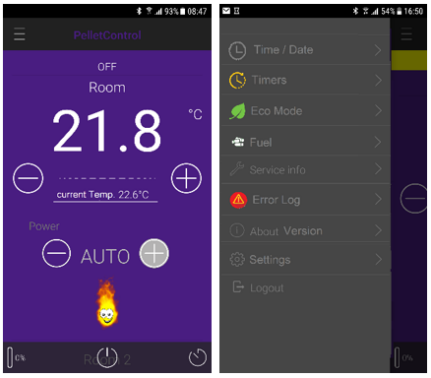


Fig. 83: Apple iOS QR code

Fig. 84: Google Play / Android QR code

11.2 Operation using IR remote control

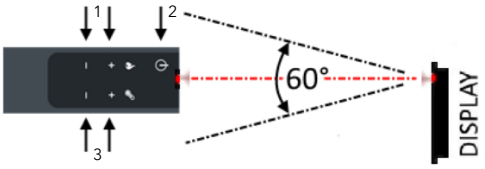


Fig. 85: IR remote control

1	Output level - / +	2	On / off
3	Target temperature - / +		

An IR remote control is included in the delivery of your stove. This makes the following functions available to you:

Make sure that there is a line of sight between the remote control and the control panel.

11.3 Operation using touch display

11.3.1 Display - room temperature display, various functions

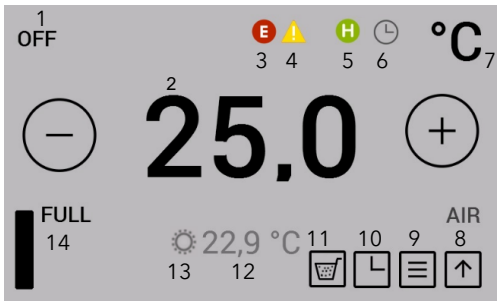


Fig. 86: Room temperature display, various functions

1	Stove operating condition	2	Target temperature
3	Error	4	Warning
5	Hybrid start enabled	6	Timer enabled
7	Temp. unit	8	to start screen
9	Menu with heat output settings	10	Delay timer
11	Release ash pan	12	current room temperature
13	SmartSpot is connected	14	filling level indicator

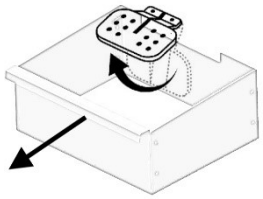


Fig. 87: Removing the ash pan

You can switch to the relevant setting or function by pressing the corresponding symbol.

The desired target temperature can be set between 5°C and 40 °C by pressing the buttons in 0.2°C increments. The setting is immediately applied. The current room temperature is by default measured at the black room temperature sensor on the back of the appliance.

The error- and warning symbols are only displayed when there is an error or a warning. The error is displayed in detail by tapping the symbol.

The "Heating time enabled" symbol is only displayed if heating times are programmed in the timer menu.

The "Hybrid start enabled" symbol shows that your oven is ready for log operation via pellet ignition.

The optionally available SmartSpot - a wireless thermostat - works in the stove.

The riddling grate is closed by pressing the "Release ash pan" button. This process takes approximately 90 seconds. After this the ash box can be removed.

This feature is only possible in the "OFF" operating condition.

11.3.2 Display - heat output display

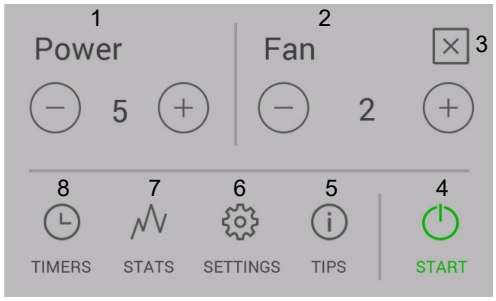


Fig. 88: Heat output display

1	Heat output level	2	Air distribution fan
3	back to room temperature display	4	Start / stop function
5	Tips	6	Settings
7	Statistics	8	Heating times

You can switch to the relevant setting or function by pressing the corresponding symbol.

The desired heat output can be set by pressing the buttons. This setting is immediately applied.

The stove is started or stopped by pressing the start / stop button for longer than 2 seconds.

11.3.3 Display - status display

Fig. 89: Status display

1	Status line	2	Start / stop function
3	Room temperature display		

The stove is started or stopped by pressing the start / stop button for longer than 2 seconds.

11.4 Functions

11.4.1 Function - air distribution fan

An air distribution module is available as an option for Scotty Duo. It can be used to heat an extra room via warm air. The warm air is sucked from the back wall of the firebox.

For installation and other information, please contact your Austroflamm dealer.

External combustion air supply

Every combustion requires oxygen. This is drawn from the environment of the heating appliance.

In modern buildings the outside covering is very thick. Therefore there is an insufficient flow of fresh combustion air. In such cases the supply of external combustion air is necessary. This is required even with the use of aeration and ventilation systems in the home.

NOTICE

The combustion air connection is marked on the rear of the appliance with a supply air symbol.

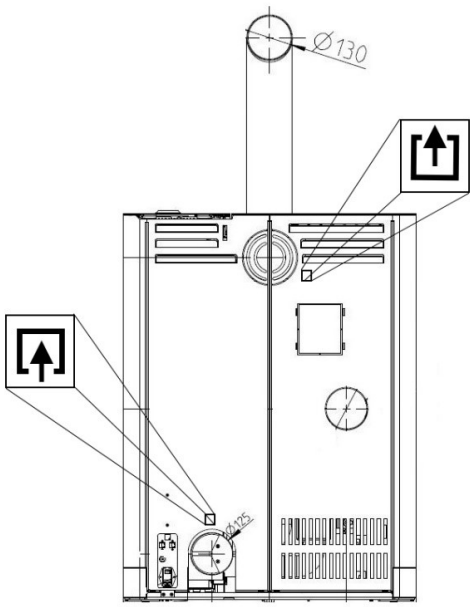


Fig. 90: Combustion air supply connection

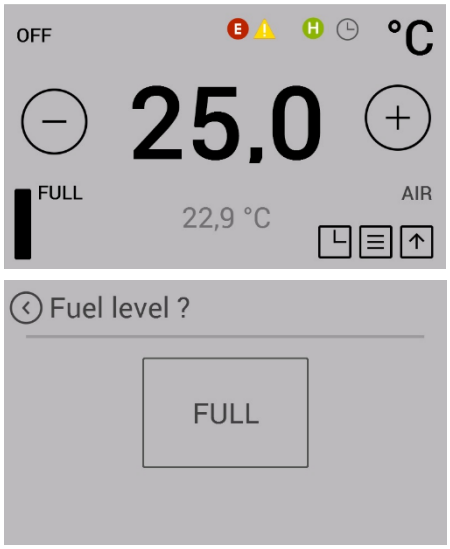
On some appliance models, connection via the floor is also possible.

A pipe or hose of Ø 125 mm must be used for connecting the external combustion air supply. The length of the pipe or hose should be no longer than 5 m. This supply line must have no more than three bends.

Provision must be made for adequate provision of combustion air and air for ventilation. The air grille for providing combustion air must not be accidentally disabled while the heating appliance is operating.

Lack of combustion air causes poor combustion, and increased soot formation and volume of ash.

11.4.2 Function - filling level indicator



The filling level indicator keeps you informed of the filling level of your pellet hopper. If the filling level falls below a certain level, a warning is shown on the display. Each time that the hopper is filled, the filling level must be manually updated.

Completely emptying the hopper should be avoided, since the flame will otherwise go out unintentionally and you will have to manually fill the screw conveyor before the next pellet start.

The filling level indicator is calculated on the basis of the size of your stove's pellet hopper and the particular operating time. Correct functioning can only be guaranteed when the hopper is always completely filled and the display is set at the same time to "FULL".

Press the filling level symbol in the room temperature display to set the display to "FULL".

This function can be disabled in the "Menu item: Fuel" setting.

11.4.3 Have you inserted log

The answer to this question affects the further function and operating method of your stove. It appears every time that you close the firebox doors.

- Press "YES" to switch to log operation and when you have stoked up with fresh log. If you do not make a choice, after 10 seconds "YES" is automatically chosen.
- Press "NO" if you have not inserted any log, e.g. if you have only cleaned the window or the firebox.

For further information on how the stove responds in the different operating conditions, please refer to the section Functional diagram of your hybrid stove [▸on page 51].

11.4.4 Function - setting timers and heating times

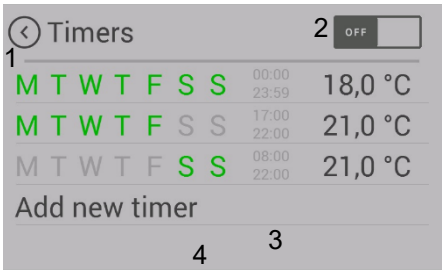


Fig. 91: Heating times

1	Back	2	Enable heating times
3	Edit heating time	4	Create new heating time

Pressing the "TIMERS" button in the heating output display takes you into the "Heating times" menu.

Enable heating times by pressing "ON" in the top right corner of the display.

A maximum of 3 heating times per day can be saved. A total of 6 different heating times can be saved.

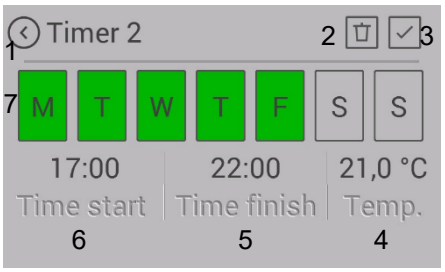


Fig. 92: Creating heating times

1	Back without saving	2	Delete heating time
3	Save	4	Target temperature
5	End of heating time	6	Start of heating time
7	Weekdays		

Creating and editing new heating times

1) Set the weekdays, the start and end of the heating time and the room temperature accordingly.
2) Save the heating time by pressing the "Save" symbol.
   ⇨ You will then be automatically taken back to the heating times list.

You can delete an existing heating time as follows:

3) Highlight the heating time and press the "Delete heating time" symbol.
   ⇨ The timer function may only be enabled after the desired heating time has been set.

When setting heating times, please note the following: The timing must be in the future.

Set heating times can overlap one another.

If individual heating times overlap, if different temperatures are specified then the heating time with the higher target temperature is enabled.

Example of heating times for a whole week:

	Weekday	Times	Temp.
TIMER 1	Monday - Sunday	00:00 – 23:59	18°C
TIMER 2	Monday - Friday	06:00 – 08:00	22°C
TIMER 3	Monday - Friday	17:00 – 22:00	22°C
TIMER 4	Saturday - Sunday	07:00 – 22:00	22°C

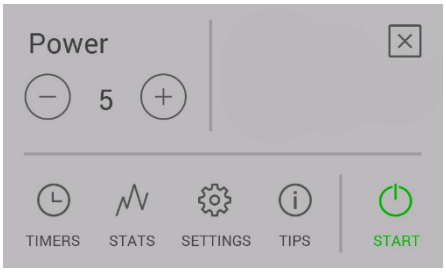
Please note: Only 3 heating times may be set per weekday.

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon	18°C						22°C		18°C										22°C				18°C	
Tue	18°C						22°C		18°C										22°C				18°C	
Wed	18°C						22°C		18°C										22°C				18°C	
Thu	18°C						22°C		18°C										22°C				18°C	

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Fri	18°C						22°C		18°C									22°C					18°C	
Sat	18°C								22°C														18°C	
Sun	18°C								22°C														18°C	

12 Adjustments

12.1 Display - settings



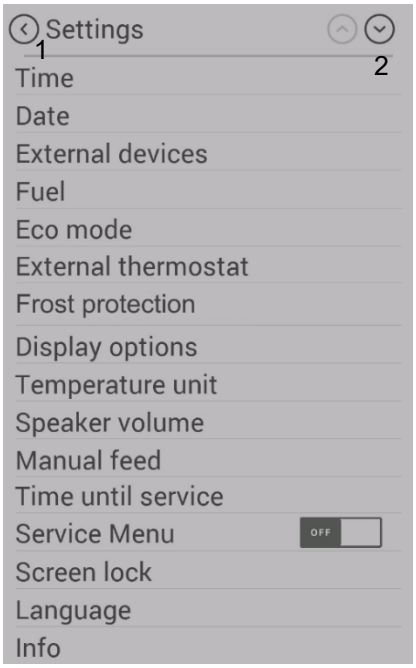


Fig. 93: Settings

1 Back	2 Scroll list

Pressing the “SET” button on the menu list
Takes you to the “Settings” menu.

You can scroll the list up and down.

Pressing the desired menu item switches you to that function.

12.2 Menu item - time/date

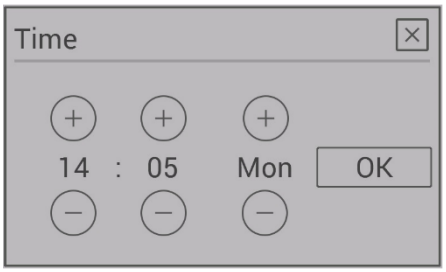


Fig. 94: Setting the time

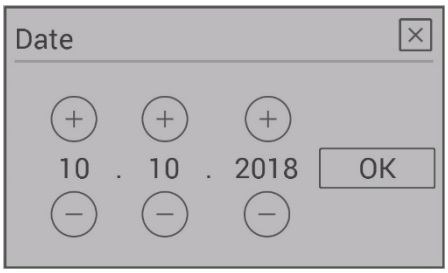


Fig. 95: Setting the date

Setting the time of day is necessary for the correct heating time, the statistics function and the logging of errors.

Set the hour, minutes, weekday, month and year and confirm the setting with OK.

12.3 Menu item - fuel

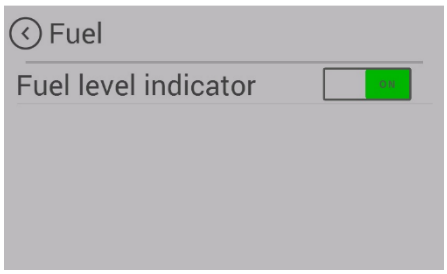


Fig. 96: Fuel

This submenu can be used to disable “filling level indicator”.

When deactivated the bar on the display disappears.

There will be no warning when the filling level is low.

12.4 Menu item - eco-mode

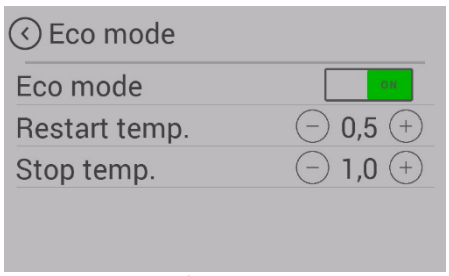


Fig. 97: Eco-mode

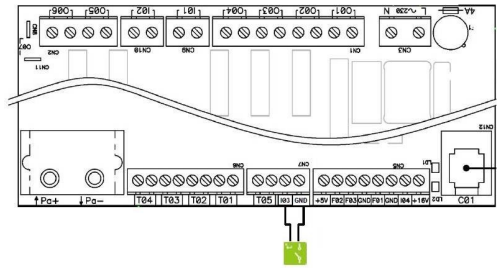
Eco-mode enables the stove to be automatically turned off and on at certain temperature settings specified by you.

You can set the switch-off and restart temperature in the eco-mode menu item.

To prevent starting / stopping too frequently, the temperate limits should not be set too narrowly. The stove must burn for at least an hour in order to come to operating temperature.

As a standard setting we recommend a restart temperature of 0.5 °C and a switch-off temperature of 1 °C.

12.5 Menu item - external thermostat



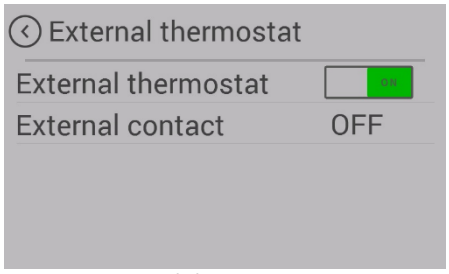


Fig. 98: External thermostat

The stove can optionally be controlled by an external thermostat.

1) For this purpose connect the potential-free contact of the thermostat to the main control at input “I03” & “GND”.
   ⇨ The 2-pin plug is optionally available (item no. 728151).
2) Then the function must be enabled in the menu Settings/External thermostat.
   ⇨ The “External contact” display shows whether the external thermostat is switched ON or OFF.
   ⇨ The stove will start/stop with a slight delay.
3) The external thermostat must be connected to the controls at the slots “I03” & “GND” (DC series).
   ⇨ It applies the temperature control after enabling in the “External thermostat” menu item.

TIP

To enable the external thermostat, the stove must be manually started once after the thermostat has been installed.

12.6 Menu item - anti-frost

The anti-frost menu is used to automatically start the stove at a specified temperature. The menu only functions when the timer function is enabled.

12.7 Menu item - display options

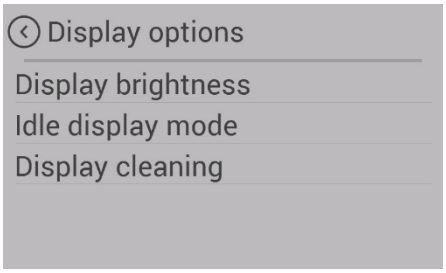


Fig. 99: Display options

The following display options are available.

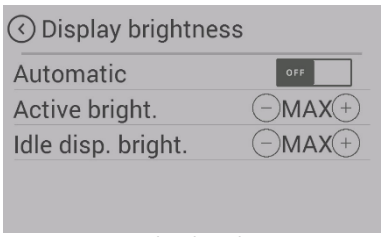


Fig. 100: Display brightness

Display brightness

Determines the display brightness during operation and during idle mode.

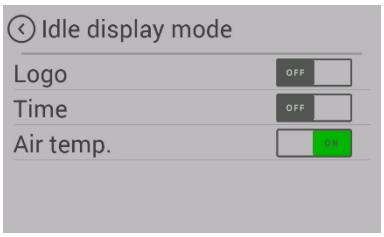


Fig. 101: Display Idle mode

Idle mode

If for 30 seconds nothing is pressed on the display, the display switches to the set Idle mode. If more than one choice is possible, the selection is displayed alternately.

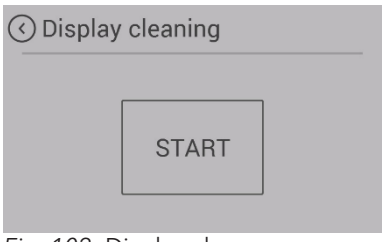


Fig. 102: Display clean

Display clean

To ensure that when the display is being cleaned no function is unintentionally started, press “Start”. The display is locked for 30 seconds.

12.8 Menu item - temperature unit

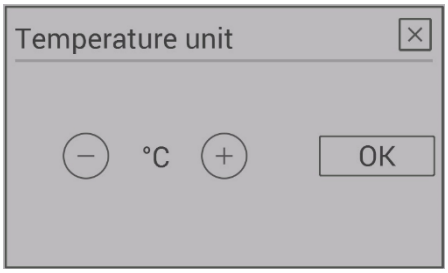


Fig. 103: Temperature unit

This menu item allows you to switch between displaying the temperature in °C and Fahrenheit.

12.9 Menu item - volume

Fig. 104: Volume

Choose the volume for the key sound and for the signal sound of warnings and error messages.

Your appliance is supplied with standard volume 3.

12.10 Menu item - manual pellet feed

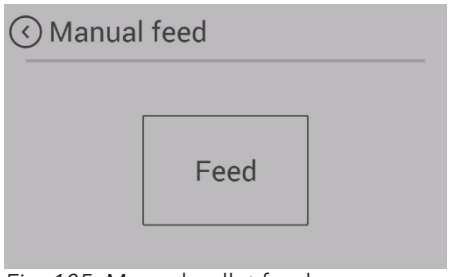


Fig. 105: Manual pellet feed

For filling the screw with pellets for the initial commissioning or after the spiral has run empty, you have the option of manual pellet feed.

If the screw conveyor is empty, the filling process can take up to 5 minutes.

On appliances with the combustion pot design, manual pellet feed can be enabled at any time.

On appliances with the riddling grate this function is only available after the START of the stove in ignition phase 2.

12.11 Menu item - service due

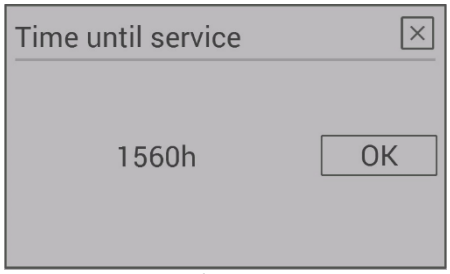


Fig. 106: Service due

Here you can see how many maintenance-free operating hours your stove still has before a service is required.

The service must be carried out by an authorised Austroflamm service engineer.

12.12 Menu item - service menu

This menu is reserved for the Austroflamm service engineer.

12.13 Menu item - display lock

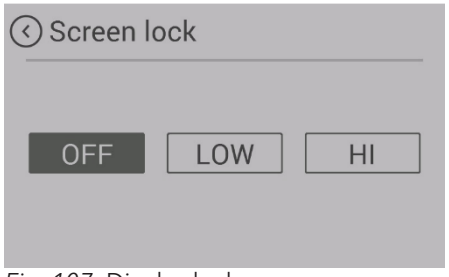


Fig. 107: Display lock

You have the option to restrict functions on the display (“Child safety”).

LOW

Low lock level. Menu functions are disabled. The heat output can no longer be changed. The stove can however continue to started / stopped.

HIGH

The entire stove is locked. Starting and stopping are no longer possible.

In order to unlock again, switch back to the “Display lock” setting and disable the function.

12.14 Menu item - Language

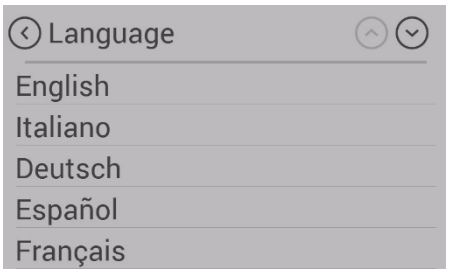


Fig. 108: Language

Choose the desired language on your control panel.

12.15 Menu item - Info

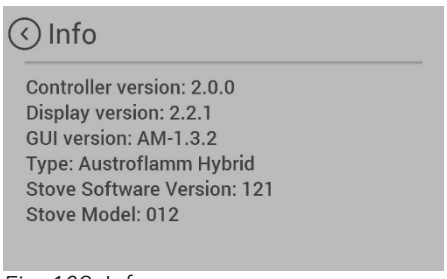


Fig. 109: Info

Hardware and software versions of the individual components are displayed here.

In case of servicing, please have the

- "Stove software version:" and the
- "Stove model no.:" ready.

12.16 Menu item - Heating statistics

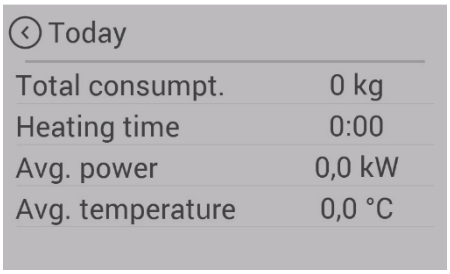


Fig. 110: Heating statistics

Usage data is displayed in the heating statistics. This can be shown for different time periods.

12.17 Menu item - tips

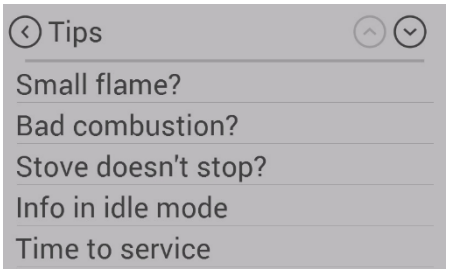


Fig. 111: Tips

Here you can find important "tips" for the correct operation of your stove and answers to queries for possible problems.

12.18 Setting the firebox door closing pressure

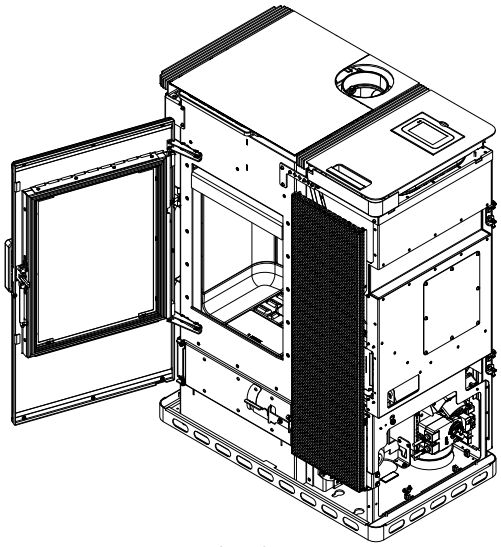


Fig. 112: Opening the door

1) Open the door.

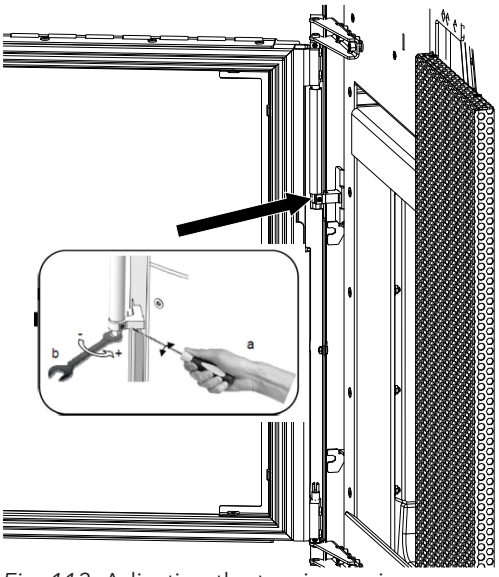


Fig. 113: Adjusting the tension spring

2) The tension spring can be adjusted with a screwdriver and a fork spanner.

12.19 Adjusting the ash box door

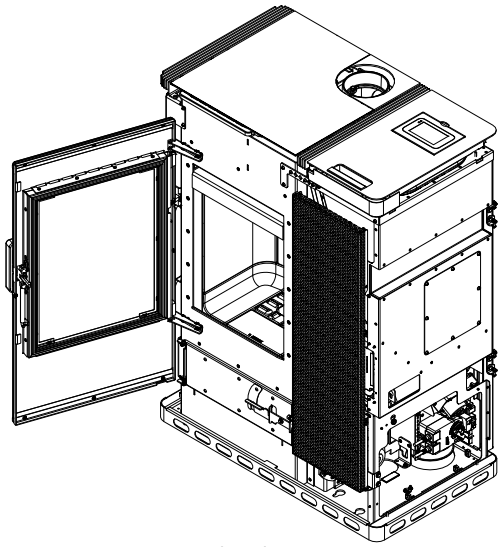


Fig. 114: Opening the door

1) Open the door.

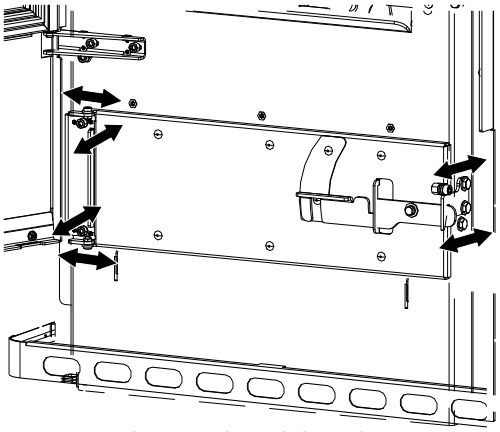


Fig. 115: Adjusting the ash box door

2) The ash box door can be adjusted at the screws to the relevant position.

12.20 Adjusting the firebox door

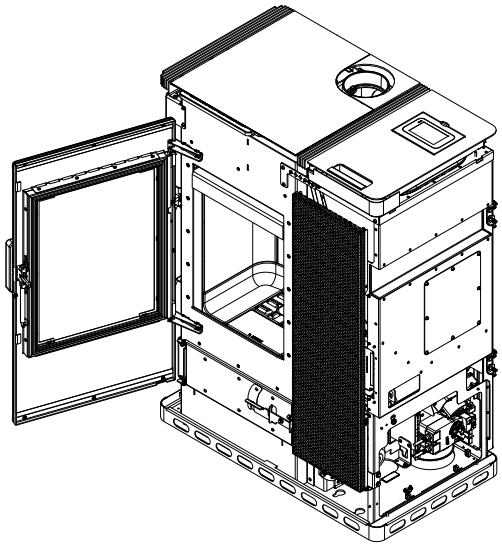


Fig. 116: Opening the door

1) Open the door.

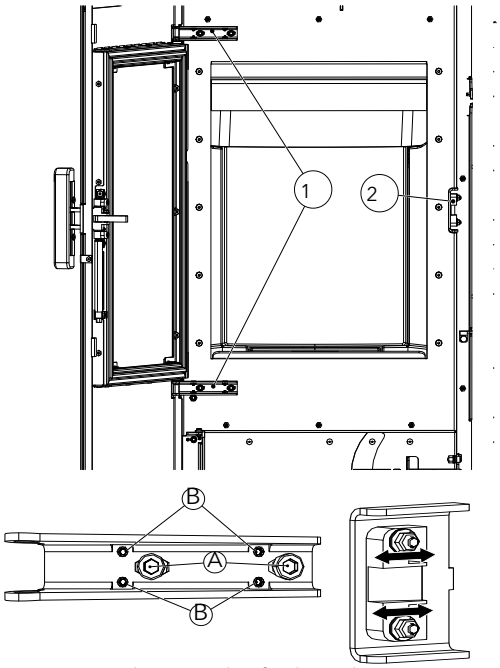


Fig. 117: Adjusting the firebox door

2) The hinges (1) can be adjusted with the marked screws A + B.
   - ⇨ A: left/right
   - ⇨ B: forwards/backwards
3) The snap (2) can be adjusted forwards and backwards at the springs.

13 Commissioning

13.1 First start-up

1) The hybrid stove must be connected to the chimney. Sufficient combustion air must be supplied.
2) Remove the accessories from the pellet hopper and the firebox.
3) Fill the hopper with pellets and close the hopper lid.
4) Insert power cable and set tumbler switch on the back of the hybrid stove to "I".
   ⇨ The Austroflamm logo will now appear on the display.
   ⇨ This is followed by the main operating level with temperature displays and hopper level.
5) The pellet screw conveyor must be filled before the first start-up.
   To do so, open and close the firebox doors (confirm the question "Have you inserted log?" that follows it on the display with "YES").
6) Next start the manual filling process.
   ⇨ For more detailed information see menu item: Manual pellet feed [▸on page 64]. This process takes approximately 5 minutes.
7) To start the hybrid stove in pellet mode, press the knob for more than 2 seconds or press "Start" on the display.

14 Maintenance

14.1 Intervals

Cleaning- and maintenance intervals depend on the operating hours and connection situation.

Cleaning the viewing window	as necessary
Visual inspection of riddling grate, remove adhering deposits	Every 2-3 operating days
Empty the ash box and clean the firebox	as necessary
Clean the exhaust gas pipes	1 x annually or when display shows due for service
Cleaning screw shaft, pellet hopper	min. 1 x annually or when the pellet supply is visibly reduced and the STB turns off the heating appliance.
Replace the battery	Recommendation: every 2 years
Check all seals (door, heat exchanger lid, ash box, hopper lid); replace as necessary.	1 × annually

The hybrid stove and its parts must be cleaned in compliance with the above overview.

Have your hybrid stove inspected and maintained annually before the start of the cold season by an Austroflamm engineer.

14.2 Cleaning and emptying the riddling grate

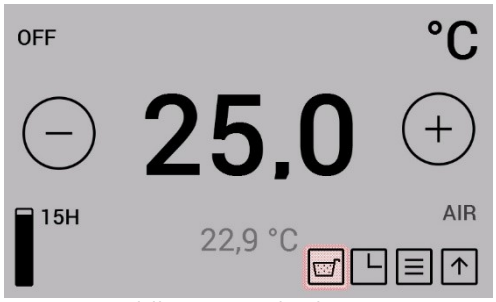


Fig. 118: Riddling grate display

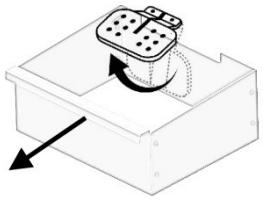


Fig. 119: Riddling grate

On stove models with automatic riddling grate, each time the stove stops the combustion residues on the riddling grate are tipped into the ash pan. The ash pan must be emptied as required.

The collection of fly ash in the combustion chamber is normal and should be vacuumed out per week of operation.

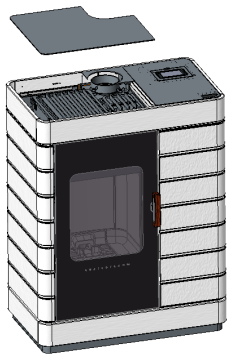
The combustion pot and the riddling grate must be inspected every 2-3 days of operation for adhering deposits and cleaned with a wire brush.

The riddling grate is closed by pressing the “Release ash pan” button. This process takes approximately 90 seconds. After this the ash box can be removed.

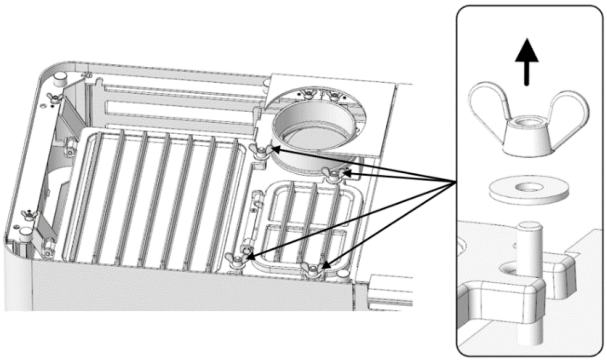
This feature is only possible in the “OFF” operating condition.

14.3 Cleaning the exhaust gas pipes

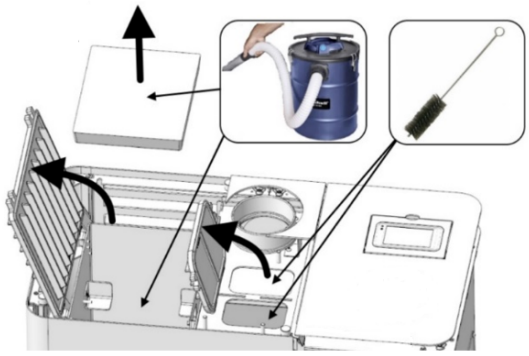
1)



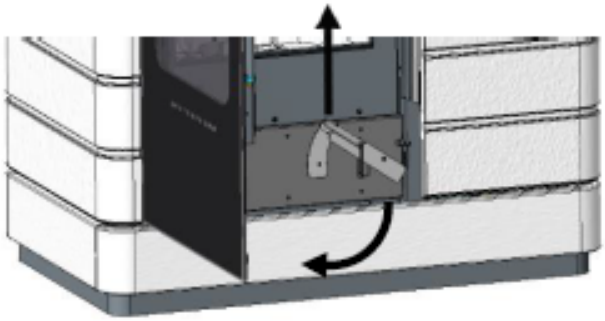
2)



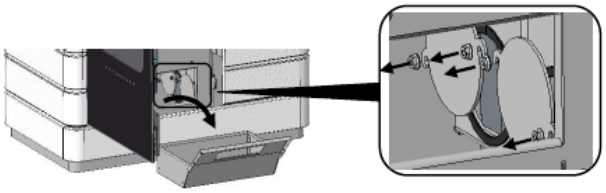
3)



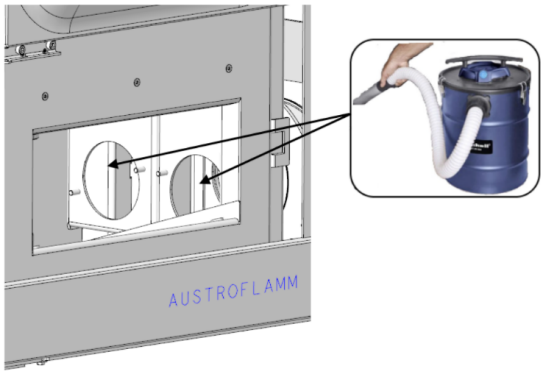
4)



5)



6)



14.4 Changing the storage battery

A type CR2032 storage battery is located in the controls. The control unit uses this storage battery to store certain data, e.g. time, date, and heating times, even during a power failure or if cut off from the mains.

If the battery is dead the control unit will continue to work as normal. In the event of a power failure, however, the above listed data will be lost. It will then have to be saved from scratch.

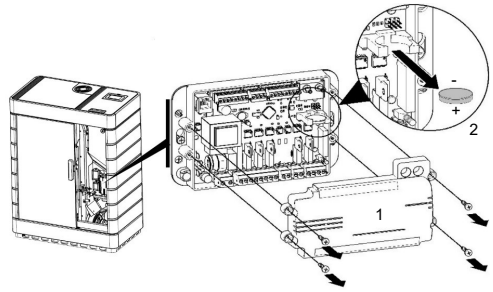


Fig. 120: Changing the storage battery

1	Cover	2	CR2032 storage battery

Change the battery every 2 years, as follows:

1) The battery is located on the central control unit. To replace it, the right-hand side cladding of the hybrid stove must first be removed. Then remove the cover of the control unit.
2) Use insulated pliers or a similar tool to remove the old battery from the holder.
3) Insert the new battery, taking note of the correct polarity.

15 Alarms and error messages

15.1 List of alarms and errors

Alarms are displayed on the control panel in yellow. When an alarm is displayed the hybrid stove can continue to be used. Errors are displayed in red. When errors are displayed the hybrid stove is not ready for operation.

Warning code Error code	Description	Solution
Alarm - A001	Fuel level low	Replenish pellets, Set filling level to “FULL” again.
Alarm - A002	Service due	Maintenance by service technician required.
Alarm - A003	Flue gas temperature	Exhaust gas temperature too high: service technician required.
Alarm - A004	Low battery	Change control storage battery (CR2032). The battery must be changed every 2 years as part of a service.
Error - E001	IR communication error	Infra-red sensor malfunction, contact service engineer.
Error - E004	Communication error	Communication error between controls and display, check data cable - plug connections.
Error - E101	Ignition failed	Restart.
Error - E102	Vacuum too low or too high	Possible causes: 1. The automatic start procedure has been manually cancelled. 2. Supply air pipe, combustion pot, exhaust gas pipes, exhaust gas fan or flue pipe contaminated. 3. Chimney draught contaminated. 4. Chimney draught too strong.
Error – E107	Firebox sensor	Firebox temperature sensor cable faulty. Call Service.
Error - E108	Safety switch I01 error	RESET safety temperature limiter (STB)! Caution: STB can only be reset after cooling down to below 105 °C.
Error - E109	Safety switch I02 error	1. Pellet hopper lid open. 2. Riddling grate not closed. 3. Bridge on I02 not correctly plugged in. If the error continues, contact service engineer.
Error - E110	faulty room temperature sensor	room temperature sensor faulty. Replace sensor. contact service technician.
Error - E113	Exhaust gas excess temperature	Exhaust extractor and flues are blocked. Cleaning required.
Error - E114	Firebox temperature too low	Possible causes: 1. Ignition failed (empty combustion pot and restart the appliance). 2. Fuel tank empty (fill up fuel tank). 3. DC side of the controls must be earthed (stove body has built up millivoltage).
Error - E115	System shut-down	Software must be reloaded. Contact service engineer.

15.2 Resetting warnings and errors

In the event of a warning or error a yellow or red message with the description is displayed.

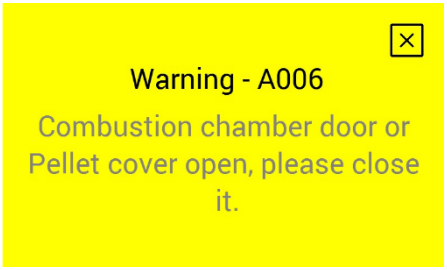


Fig. 121: Warning

1) To close the warning display, tap  .
   - ⇨ Closing the display does not reset the warning.
   - ⇨ To reset the warning, the problem must be resolved.
   - ⇨ However, the stove can continue to be operated despite the warning display being active.

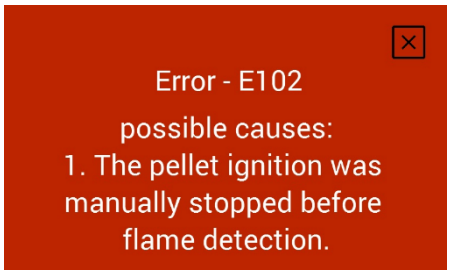


Fig. 122: Error

2) Close the error display by tapping  .
   - ⇨ Closing the display does not reset the error.
   - ⇨ To reset the error, the problem must be resolved.
   - ⇨ When an error occurs the stove cannot be operated.

15.3 Safety temperature limiter

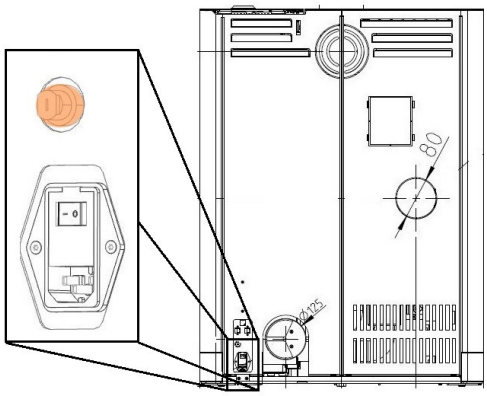


Fig. 123: Safety temperature limiter

Your stove is fitted on the back with a safety temperature limiter (1).

This automatically switches off in the event of overheating (temp. ≥ 105 °C). In the event of a switch-off the cause must be determined. To make the stove operable again, after cooling down, press in the green reset button on the safety temperature limiter.

Safety temperature limiter (1) with removable black protective cap.

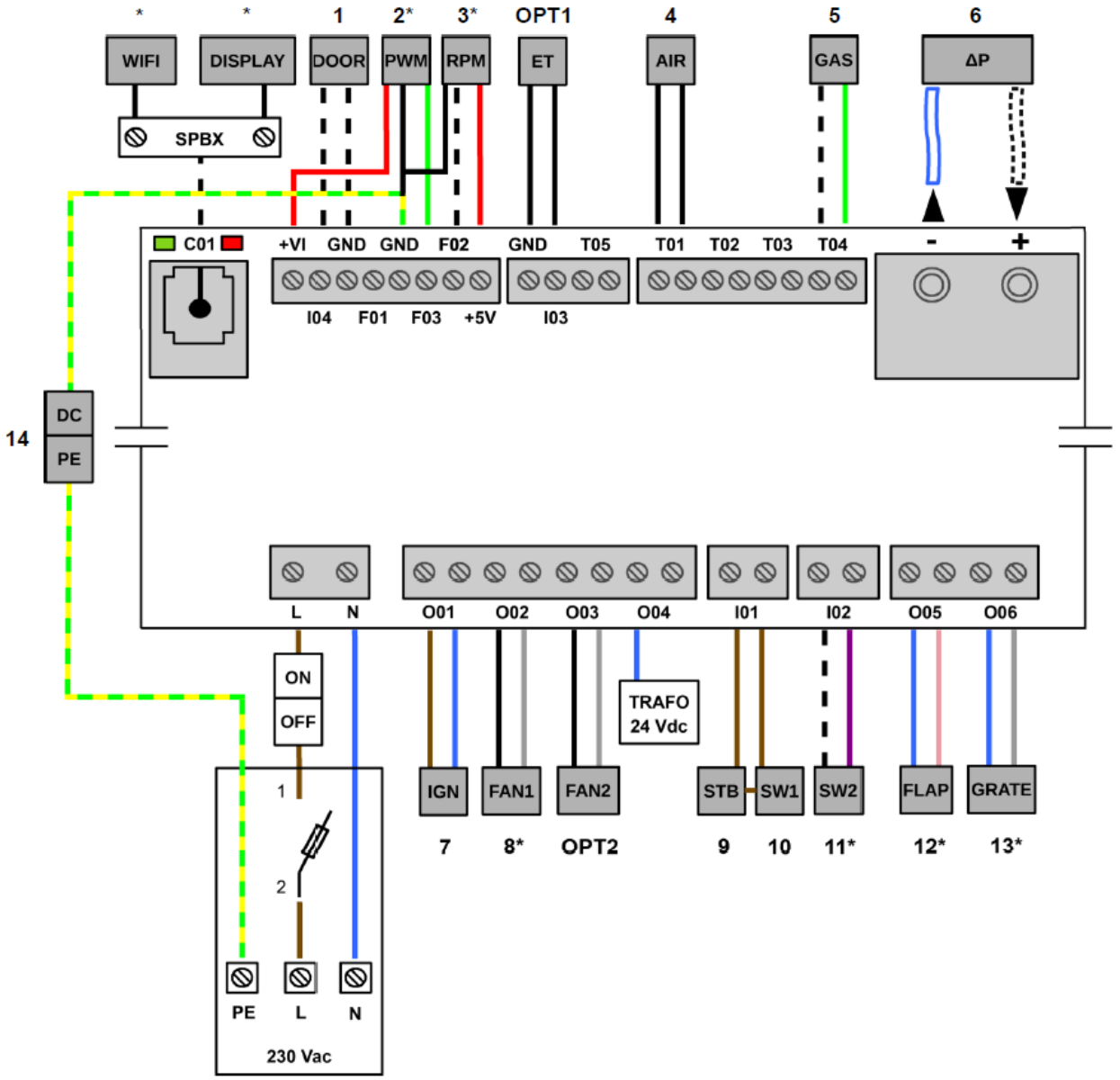
16 Electrical connection diagram

16.1 Model with permanently running screw motor

NOTICE

Repairs to your hybrid stove must only be carried out by authorised Austroflamm engineers.

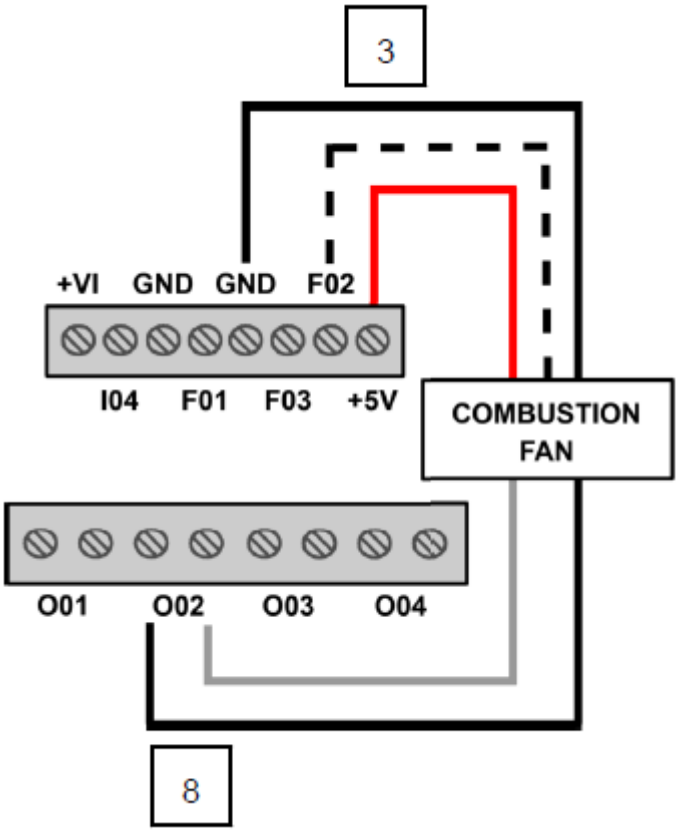
Electrical connection diagram - overview



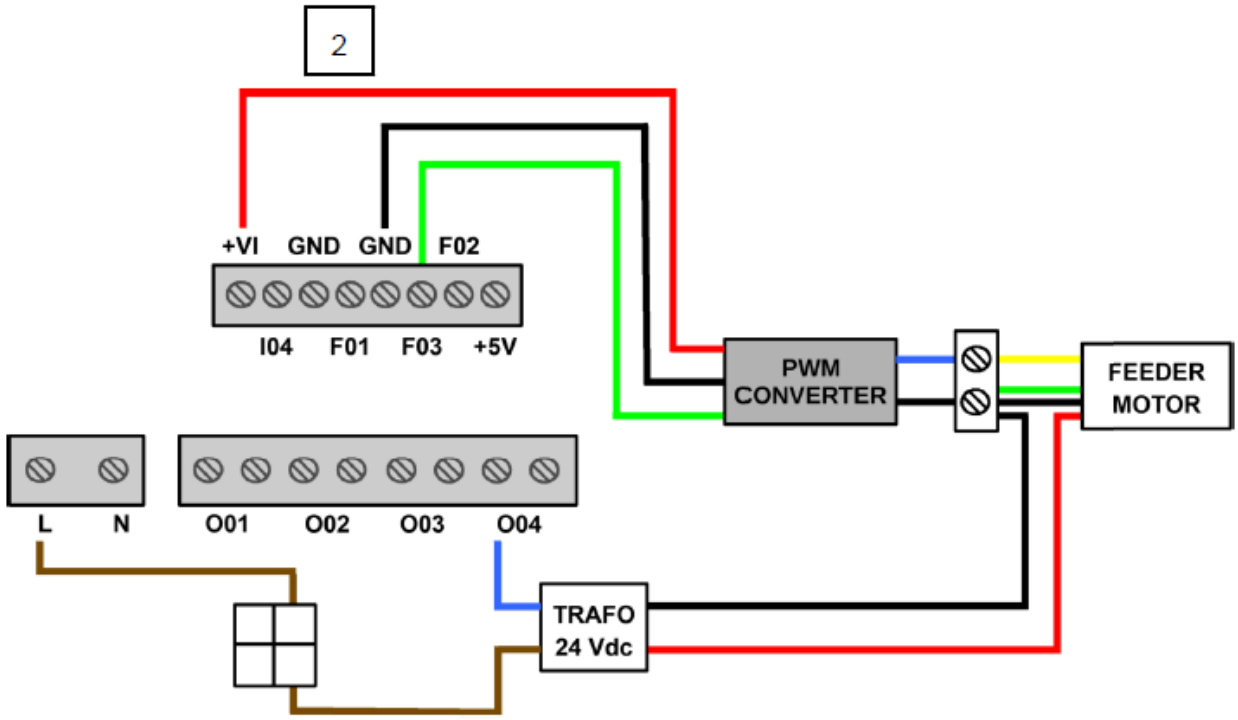
1	Door contact switch
2	PWM DC changeover
3	RPM / HAL-IC
4	Room temperature sensor
5	Firebox temperature sensor
6	Differential pressure measurement

7	Ceramic ignition
8	exhaust gas fan
9	Safety temperature limiter
10	Hopper lid safety switch
11	Grate positioning
12	Damper motor
13	Grate motor
14	Central earthing point
OPT1	External thermostat
OPT2	Air distribution module
*	See detailed electric connection diagram

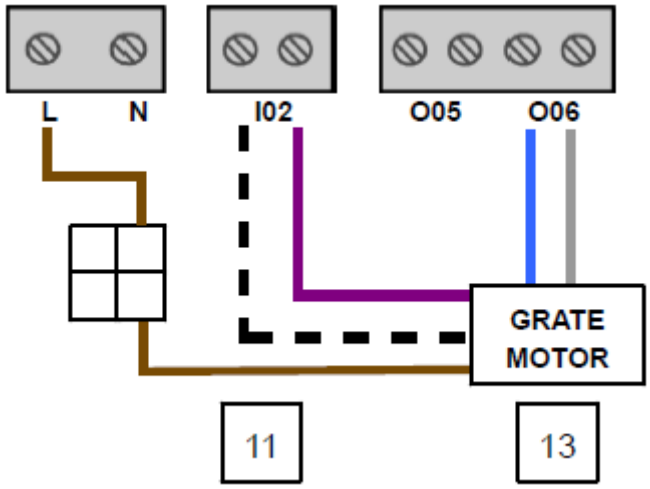
Electric connection diagram, detailed - exhaust gas fan



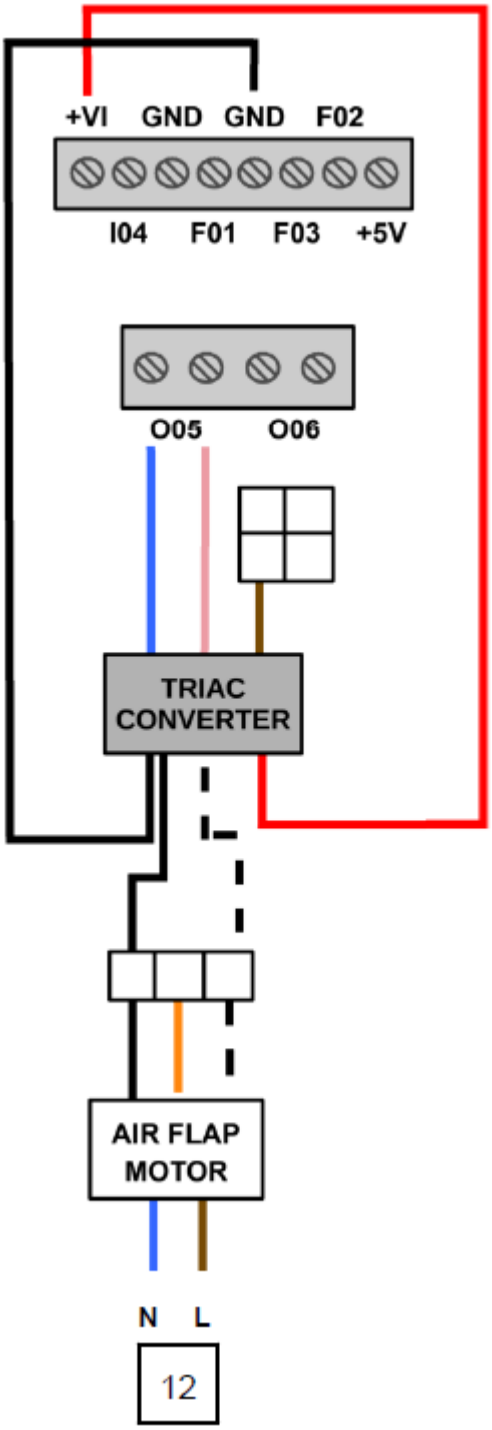
Electric connection diagram, detailed - screw motor



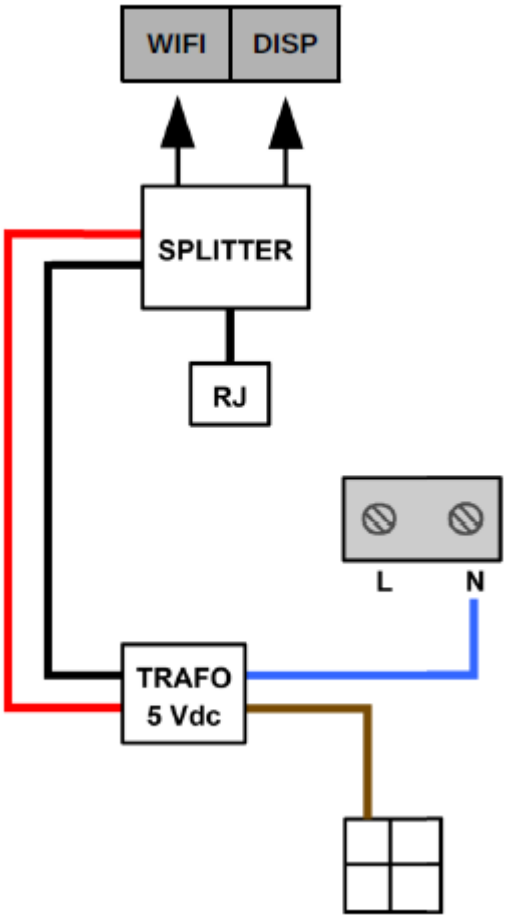
Electric connection diagram, detailed - grate motor



Electric connection diagram, detailed - damper motor



Electric connection diagram, detailed - data cable splitter

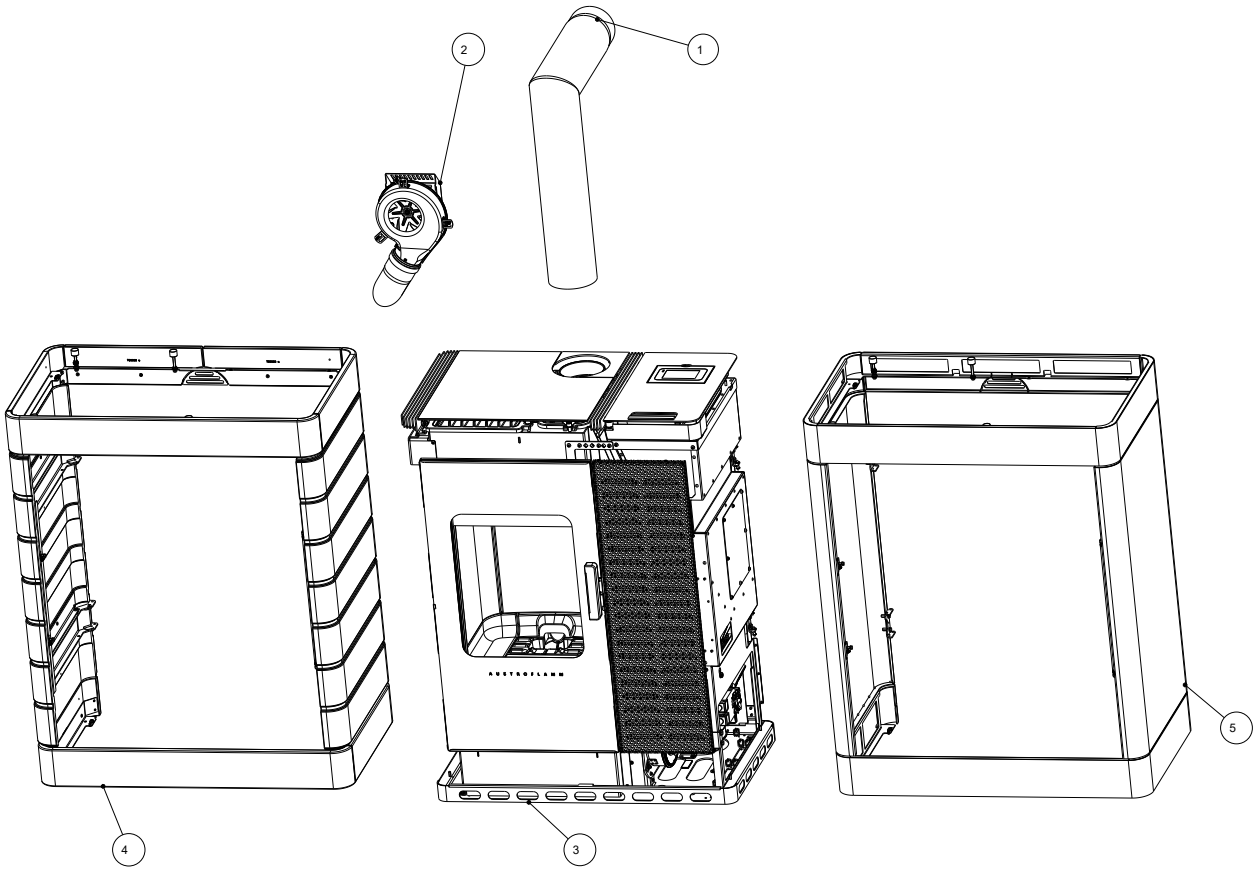


17 Dismantling

For correct uninstallation and dismantling of the hybrid stove, contact your Austroflamm specialist dealer.

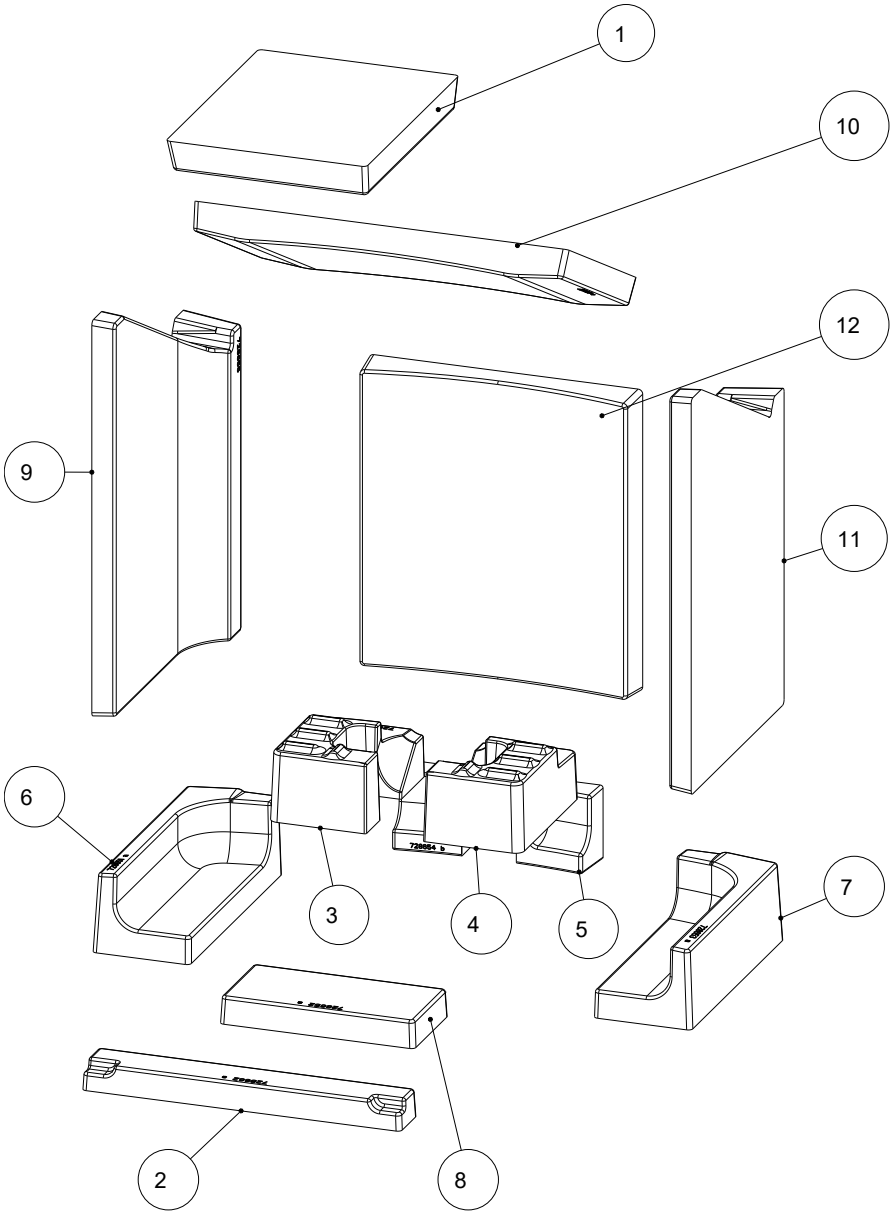
18 Spare parts

Scotty Duo accessories



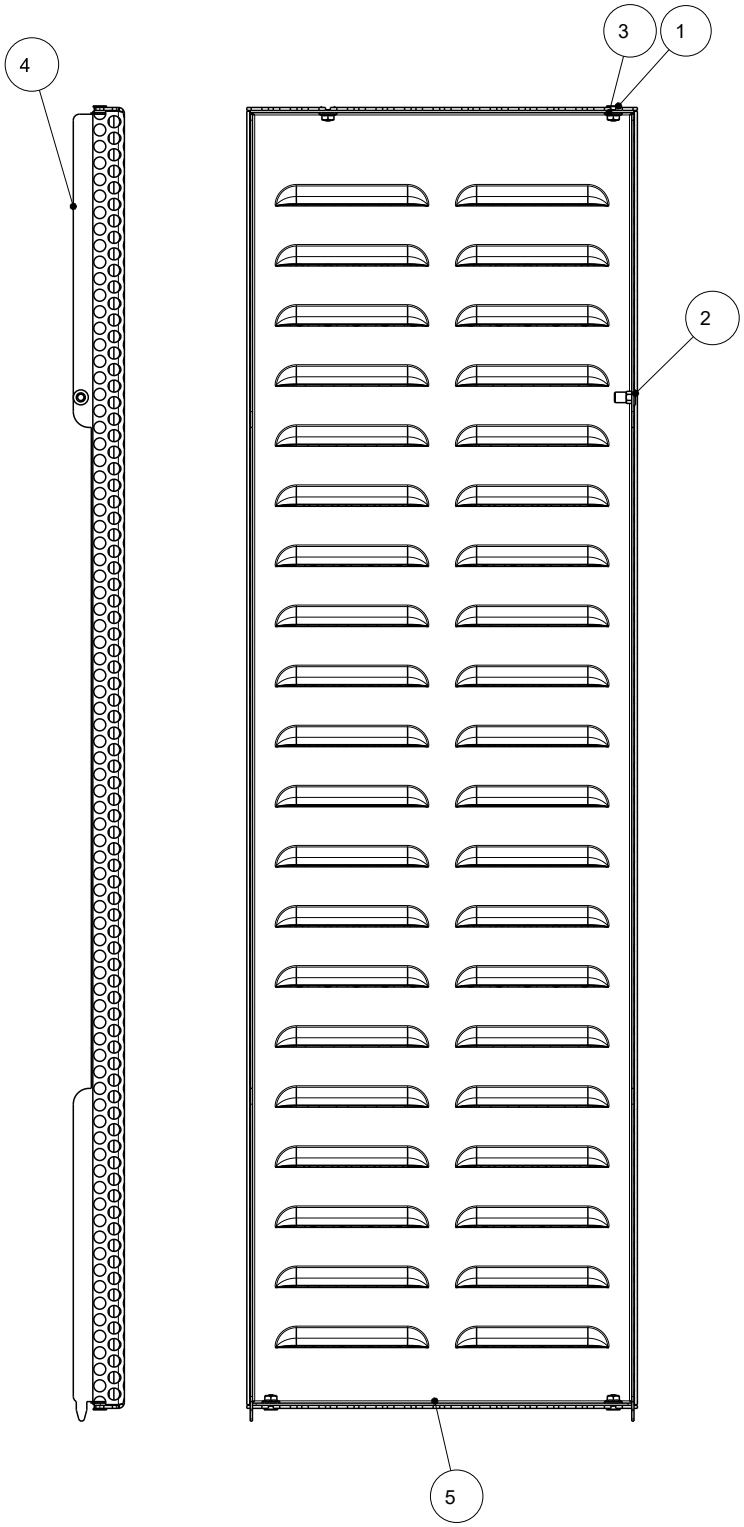
Item	Qty	Item	Item no.
1	1	Elbow piece 130 - set	620066
2	1	Air distribution module (ADM)	805003
3	1	SCOTTY DUO	812001
4	1	VK ceramic, complete	812002-XX
5	1	VK steel, complete	812003-29

Keramott



Item	Qty	Item	Item no.
1	1	Elbow 2	728661
2	1	Floor, front	728662K
3	1	Firestone, left	728656-B
4	1	Firestone, right	728656-A
5	1	Floor, rear	728654
6	1	Floor, left	728651
7	1	Floor, right	728653
8	1	Floor, middle	728652
9	1	side wall, left	728655
10	1	Elbow 1	728659
11	1	side wall, right	728657
12	1	Rear panel	728658

right cladding front

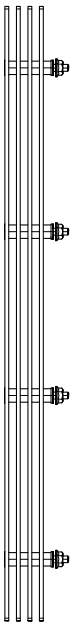


Item	Qty	Item	Item no.
1	4	Taptite counter-sunk head bolt M5X10 DIN7500M	718481-92
2	1	Hex M5 HUT/FEF 3	718769-93
3	4	Hexagon nut with flange, M5 DIN6923	723916-92 S
4	1	VK front right 2	729335-29
5	1	VK front right 1	729337-29

Convection lamella, left

Item	Qty	Item	Item no.
1	1	Convection lamella installed on the left	729211-29

Convection lamella, right



Item	Qty	Item	Item no.
1	1	Convection lamella installed on the right	729212-29

19 Disposal

NOTICE

To dispose of the stove properly, get in touch with the local (possibly municipal) waste disposal company.

NOTICE

We recommend that you remove those components of the stove which have been in contact with fire such as window, combustion chamber, grates, firebox lining (Keramott), ceramic, sensors and baffle plates and dispose of them in the household waste.

NOTICE

For correct uninstallation and dismantling of the hybrid stove, contact your Austroflamm specialist dealer.

Electric and electronic components

Remove the electric and electronic components from the appliance by dismounting them. These components must not be disposed of via non-recyclable waste. Disposal should be carried out professionally via the electrical and electronic waste return system.

Keramott

Remove Keramott components. If present, fastening elements must be removed beforehand. Keramott components that have been in contact with fire or flue gas must be disposed of. Reuse or recycling is not possible. Local disposal options must be observed.

Steel sheet

Disassemble steel-sheet components of the appliance by mechanical crushing. If present, remove seals beforehand. Dispose of steel sheet parts as metal scrap. Local disposal options must be observed.

Cast iron

Disassemble cast-iron components of the appliance by unscrewing or flexing them from one another, or alternatively by mechanical crushing. If present, remove seals beforehand. Dispose of the cast-iron parts as metal scrap. Local disposal options must be observed.

Natural stone

Mechanically remove any natural stone present from the appliance and dispose of it as construction waste. Local disposal options must be observed.

Fittings etc. (for water-carrying appliances)

Disassemble the components for carrying water by unscrewing and removing them and dispose of them as metal scrap. Local disposal options must be observed.

Seals (glass fiber)

Mechanically remove the seals from the appliance. These components must not be disposed of via non-recyclable waste.as glass fiber waste cannot be destroyed through burning. Dispose of seals as glass- and ceramic fiber waste (artificial mineral fibers (AMF)). Local disposal options must be observed.

Handles and decorative elements made of metal

If present, disassemble or remove handles and decorative elements made of metal and dispose of as metal scrap. Local disposal options must be observed.

20 Warranty and guarantee

1) **Warranty statement:** For your AUSTROFLAMM hybrid stove, we guarantee the flawless performance of the body for six years, and of all other steel and cast iron components for two years from the date of first sale.

   Steel and cast-iron parts and electrical and electronic components that manifest material- and or processing defects during the guarantee period (warranty case) will be replaced for new parts provided that the warranty case has been asserted to the best of the holder's knowledge within the statutory warranty period. Functional problems with electronic accessories (e.g. WLAN BOX, SmartSpot) shall only justify a warranty claim for the particular accessory.

   Our warranty only covers the free delivery of the new parts: work- and travel times are not recorded.

2) **Exceptions:** We do not provide a guarantee on wear parts (e.g. Keramott, seals and grate or combustion cavity, ignition cartridge, temperature sensor, flange bearing), surface coatings, varnish, glass and ceramics. In the case of such defects no warranty case has occurred .

   When heating up, during operation and when cooling down, your hybrid stove may produce some noise (crackling, soft clicking). This is caused by the various materials expanding and contracting under the influence of temperature in your hybrid stove. Noise of this kind does not constitute a warranty claim and do not constitute a warranty claim.

   The territorial scope of validity of our guarantee covers Austria, Germany and France. In all other countries, separate conditions of the importer apply to the respective country.
   No warranty case occurs if your Austroflamm hybrid stove is not located within the territorial scope of validity, which does not change if it is transported or dispatched by Austroflamm."

3) **Requirements:** A warranty case shall only then be replaceable if your Austroflamm hybrid stove has been operated, maintained, installed and commissioned by a specialist authorized by Austroflamm, all in compliance with the user handbook. For the replaceability of the warranty case the start-up log must be received by Austroflamm within one month at the latest of the initial commissioning. In order to make a claim on the warranty, repairs to your hybrid stove insert must only be carried out by a service engineer authorized by Austroflamm.

   The warranty claim is asserted with the invoice and serial number with the Austroflamm specialist dealer via whom the purchase was made. An unjustified warranty claim will be charged back to you.

4) **Guarantee:** This guarantee does not affect your statutory warranty rights towards us. Should your Austroflamm hybrid stove already be defective at the point of handover, you can always connect us within the framework of the statutory warrant regardless of whether there is a warranty claim or the guarantee is claimed.

21 Data processing

Additional commissioning report in respect of data processing

(please forward together with start up log and this page to info@austroflamm.com)

The personal data given in the start up log, in particular name, address, telephone number, which are solely necessary and required for the purpose of executing the start up of the product, are collected on the basis of legal authorizations.

Any use of the personal data beyond this and the collection of additional information usually requires the consent of the data subject. You may voluntarily grant such consent in the following section.

If you consent to the appropriate handling of your personal data for the following purposes, please tick this box.

o I hereby agree that Austroflamm GmbH and AUSTROFLAMM Service GmbH & Co KG may send me service reminders and offers on other products from Austroflamm GmbH for the purposes of advertising via E-Mail/ SMS/ telephone.

_____

Signature

_____

Date

The legal instruction can be accessed on the Austroflamm GmbH home page at the following address: https://www.austroflamm.com/de/datenschutz.

22 Start up log

Operator / Customer	Dealer / Engineer
Name	Company
Street	Street
Town and postal code	Town and postal code
Telephone	Telephone
Email	Email

Pellet stove		
Model	Control software version	
Serial number	Control panel software version	
Technical defects	WLAN Box software version	
Visual defects	WLAN module [ ] yes [ ] no	
Accessories / defects (SmartSpot, air distribution module, etc.)		

On-site conditions	
Socket earthed (see electric installation test certificate)	Number of elbows:
	Total length of flue pipes:
Type of chimney: Type of chimney [ ] brick [ ] stainless steel [ ] firebrick	Flue pipes in plug-in system [ ] with seal lip [ ] without seal lip
Chimney diameter:: _____Chimney height: _____	Sea level:
Chimney flue – Approved by chimney sweep: [ ] yes [ ] no	Chimney flue-/draught: Actual value:_____ Target value:_____ 3-12 Pa
Controlled living space ventilation [ ] yes [ ] no	Flue pipe diameter:
Other:	Outside temperature for draft measurement:

Appliance – Preparation for Start, Functional Check			
Pellet hopper loaded		Induced draught fan function tested	
Pellet quality: e.g. OE standard, DIN plus, ENplus A1		Screw motor function tested	
Riddle grate function tested		Ignition cartridge function checked	
Keramott "burnt white" after trial		Partial load test carried out	
Firebox door seal checked [ ] yes [ ] no			

Instructions for Operator / Customer			
Instructions for handling the appliance explained clearly and comprehensibly		Cleaning and maintenance interval explained	
Terms of the guarantee and warranty explained.		Photographic documentation of actual condition – hybrid stove installation (Please be sure to obtain the customer's consent beforehand)	
[ ] wire brush [ ] glove [ ] user instructions		(Start, combustion and burnout phases carried out.)	

The end customer confirms that they can now put the stove into operation unassisted. They further confirms that the stove is in a fully functional state and free of defects.

_____	_____	_____
Place, date	Signature Operator / Customer	Signature Technician

23 Service Report

Date	Technicians	Notes	Work carried out, replacement parts installed

Date	Technicians	Notes	Work carried out, replacement parts installed

Notizen / notes / appunti / remarques

Notizen / notes / appunti / remarques

Endkontrolle
Final inspection
Controllo finale
Contrôle final

☐ Technische Funktion
technical function / funzione tecnica / fonction technique

☐ Lackierung / paint / vernice / peinture

☐ Sauberkeit / cleanliness / pulizia / propreté

☐ Vollständigkeit / completeness / completo / complet

Geprüft von / checked by / controlled da / contrôlé par

_____

Datum / date / data / date

_____

Typenschild (Duplikat)
Type plate (duplicate)
Targhetta (duplicato)
Plaque signalétique (duplicata)

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AUSTROFLAMM