

Installation instructions

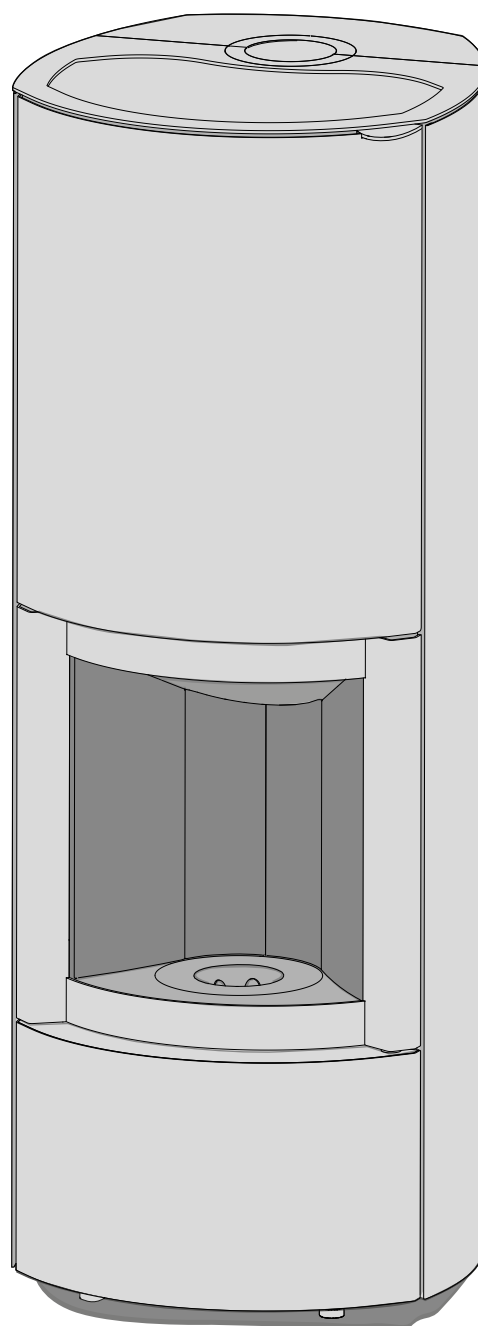
For professionals

EN

This guide is available in digital format at:

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Find us also on:



stuv P20-S

November 2024

APF 137

239795 > ...

WELCOME TO THE WORLD OF STÛV!

You have just opted for an eco-friendly, high-performance heating system.

We hope that you enjoy using it from this moment on.

You will find advice and the installation instructions in this document.

The operating instructions, which are on an additional leaflet, will guide you on the use and maintenance of your Stûv.

We highly recommend that you entrust the installation of this Stûv to a qualified professional who can especially check that the characteristics of the flue correspond to the installed stove.

The installation of the stove, its accessories and the materials which surround it must comply with all regulations (local and national) and all of the standards (national and European) of the country of installation.

Any changes made to the appliance can be dangerous.

In addition, the appliance will no longer be covered by its warranty.

We recommend that you read this manual before carrying out the installation.

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PRESENTATION OF THE PRODUCT

Standards, certification and technical characteristics

The Stûv P20-S stove (for intermittent operation) comply with the requirements of European Standards **EN 14785** in terms of efficiency, gas emissions, safety etc....

Data provided in this notice are supplied by a certified laboratory.

Stûv P20-S are covered by:

patents nos.:

EP 2304319

JP 5390603

US 8.904.944

US 8.826.899

+ Patents pending

model drawing nos.:

8044366-0002

Results of tests according to EN 14785 standards: 2006
Domestic wood pellet convection heating appliances



Stûv P20-S

System mass	175 kg
-------------	--------

Calculation data for ducts according to EN13384-1

	Minimum power	Maximum power
CO ₂ concentration	7,7 %	13,3 %
Heat power	3,7 kW	8,1 kW
Performance	90,7 %	90,3 %
T°	141°C	222°C
Weight-flow ratio of smokes	3,7 g/s	4,9 g/s
Recommended draught	3 Pa	6 Pa
Minimum draught at the output of the appliance for flue calculation	0 Pa	0 Pa

Requirements relating to the electrical power supply

Voltage	230 V
Frequency	50 Hz
Electric power consumption on ignition	360 W
Electrical power consumption under normal operation	24 W
Electrical power consumption in stand by mode	3 W

Requirements relating to fuel

Recommended fuel	Exclusively wood pellets
Certification	Din plus, EN plus A1
Diameter	6 mm

Air supply requirements

Minimum diameter of the air supply duct 60 mm	60 mm
Maximum length of air supply duct 5 m	5 m
Maximum number of 90° bends 4	4
Minimum cross-section of combustion air supply from outside (when the stove is not connected directly to the outside air)	30 cm²



In all cases, your installation must comply with standards EN 15287-1 or -2 and their appendices. Consequently, your smoke flue must comply with standard EN 13384 -1 and its appendix.

Technical parameters for decentralised solid fuel heaters

according to commission (EU) 2015/1185 and 2015/1186 and Ecodesign regulations



Details of the device:

Model reference(s):	STÜV P20 S	Notified body / body number:	ACTECO / 1080
Equivalent models:	-	Test report number:	1880-CPR-086-22
Indirect heating functionality:	no	Applied harmonized standards:	EN 14785 : 2006
Direct thermal power:	8,1 kW	Other applied standards / technical specifications:	-
Indirect thermal power :	0,0 kW		

Details of the reference fuel (only one) :

Fuel	Reference fuel (only one):	Other eligible fuel (s):	Seasonal space heating energy efficiency η_s [%]:	Emissions from space heating at rated thermal output (*) :				Emissions from space heating at minimum heat output (*) (**):			
				PM	OGC	CO	NO _x	P	OGC	CO	NO _x
				[x] mg/Nm ³ (13% O ₂)				[x] mg/Nm ³ (13% O ₂)			
Wood logs with a moisture content $\leq 25\%$	no	no	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Compressed wood with a moisture content of $< 12\%$	yes	no	87	6	<1	4	89	3	<1	188	60
Any other fuel	no	no	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

(*) P = particulate matter, OGCs = organic gaseous compounds, CO = carbon monoxide, NO_x = nitrogen oxides.

(**) Only required if correction factors F(2) or F(3) are applied

Characteristics when operating with the reference fuel (only one) :

Characteristics	Symbol	Value	Unit	Characteristics	Symbol	Value	Unit
Heating output				Useful efficiency (NCV as received)			
Thermal output	P _{nom}	8	kW	Useful efficiency at nominal heat output	$\eta_{th, nom}$	90,3	%
Minimum thermal output (indicative)	P _{min}	3,7	kW	Useful efficiency at minimum heat output (indicative)	$\eta_{th, min}$	90,7	%
Auxiliary power consumption				Type of heat output/room temperature control (select only one)			
At nominal heat output	el _{max}	0,024	kW	single stage heat output control, no room temperature control		no	
At minimum heat output	el _{min}	0,026	kW	two or more manual stages, no room temperature control		no	
In standby mode	el _{SB}	0,004	kW	with mechanic thermostat room temperature control		no	
Permanent pilot flame power requirement				with electronic room temperature control		no	
Pilot flame power requirement (if applicable)	P _{pilot}	N.A.	kW	with electronic room temperature control plus day timer		no	
Energy efficiency				with electronic room temperature control plus week timer		yes	
Energy efficiency index:	-	128	-	Other control options (multiple selections possible)			
Energy efficiency class:	-	A+	-	room temperature control, with presence detection		no	
				room temperature control, with open window detection		no	
				with distance control option		yes	

Special precautions for assembly, installation or maintenance :

Fire protection and safety distances, such as distances to combustible building materials, must be observed! An adequate supply of combustion air to the appliance must be guaranteed at all times. The flue gas values of the appliance must be observed when dimensioning the chimney!

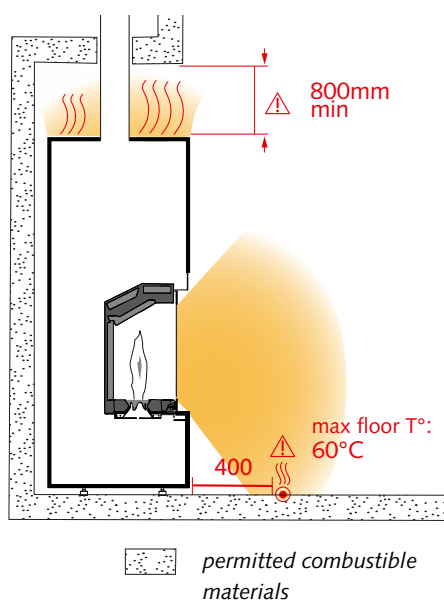
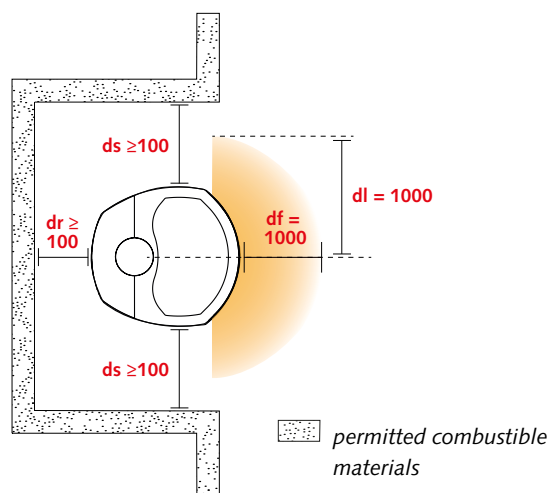
Fabricant:	STÜV SA
Contact:	Thomas Duquesne Science & Technology Manager certifications@stuv.be
Address:	Rue Jules Borbouse,4 5170 Bois-de-Villers Belgique

Gérard Pitance
Managing Director and Founder

Jean-François Sidler
Chief Executive Officer and Managing Director

Stûv P20-S marking

	nominal reduced Heating output P 8.1kW 3.7kW		
	Emissions (à 13% oxygen content)	CO	4mg/Nm ³ 188mg/Nm ³
Stûv S.A. Rue Jules Borbouse 4, 5170 Bois-de-Villers		NOx	89mg/Nm ³ 60mg/Nm ³
Stûv P20-S		OGC	<1mg/Nm ³ <1mg/Nm ³
22		PM	6mg/Nm ³ 3mg/Nm ³
EN 14785:2006	Minimum flue gas draught	p	6Pa 3Pa
Notified Body: 1880	Average temperature of the smoke at the appliance's outlet	T	222°C 141°C
Declaration of performance number: QA221478501			
Read and follow operating instructions			
Version française disponible dans la notice d'utilisation Nederlandse versie beschikbaar in de gebruikersgids Deutsche Version in der Installationsanleitung La versione italiana è disponibile all'interno della guida utente Versión española disponible en el manual del usuario Versão portuguesa disponível no Manual do Utilizador Česká verze je k dispozici v uživatelské příručce Wersja polska dostępna w instrukcji obsługi	Minimum clearance distance	dr	100mm rear
	from combustible materials	ds	100mm sides
		df/dl	1000mm front
		dc	800mm top
		db	0mm bottom
	Appliance efficiency	η _{nom}	90.3% nominal
		η _{part}	90.7% reduced
	Rated input power		360W peak
			24W average
	Rated voltage		230V
	Rated frequency		50Hz





ENERG

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stûv
P20-S

A++
A+
A
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A+





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kW

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2015/1186

Materials and main components

The Stûv P20-S consists mainly of:

> Painted steel sheets/tubes for structural and facing elements

> Vermiculite for the inside of the combustion chamber

> Cast iron for the structural elements of the burner

> Aluminium for the smoke extraction flue

> HDPE for the Pellet hopper

> Remote control with PP body and PC screen, lithium-ion battery (optional).

All of these components are deemed to be compliant within tolerances and national practices.

Recommendations for dismantling, recycling and disposal of the appliance at the end of its life cycle

Stûv has a determinedly proactive responsible environmental approach. We think about the end-of-life of our products.

Each of the device's components can be isolated so that sorting can be carried out and therefore optimum recycling.

Removal of the various parts must be done in accordance with local and national regulations.



Legal terms and conditions for use

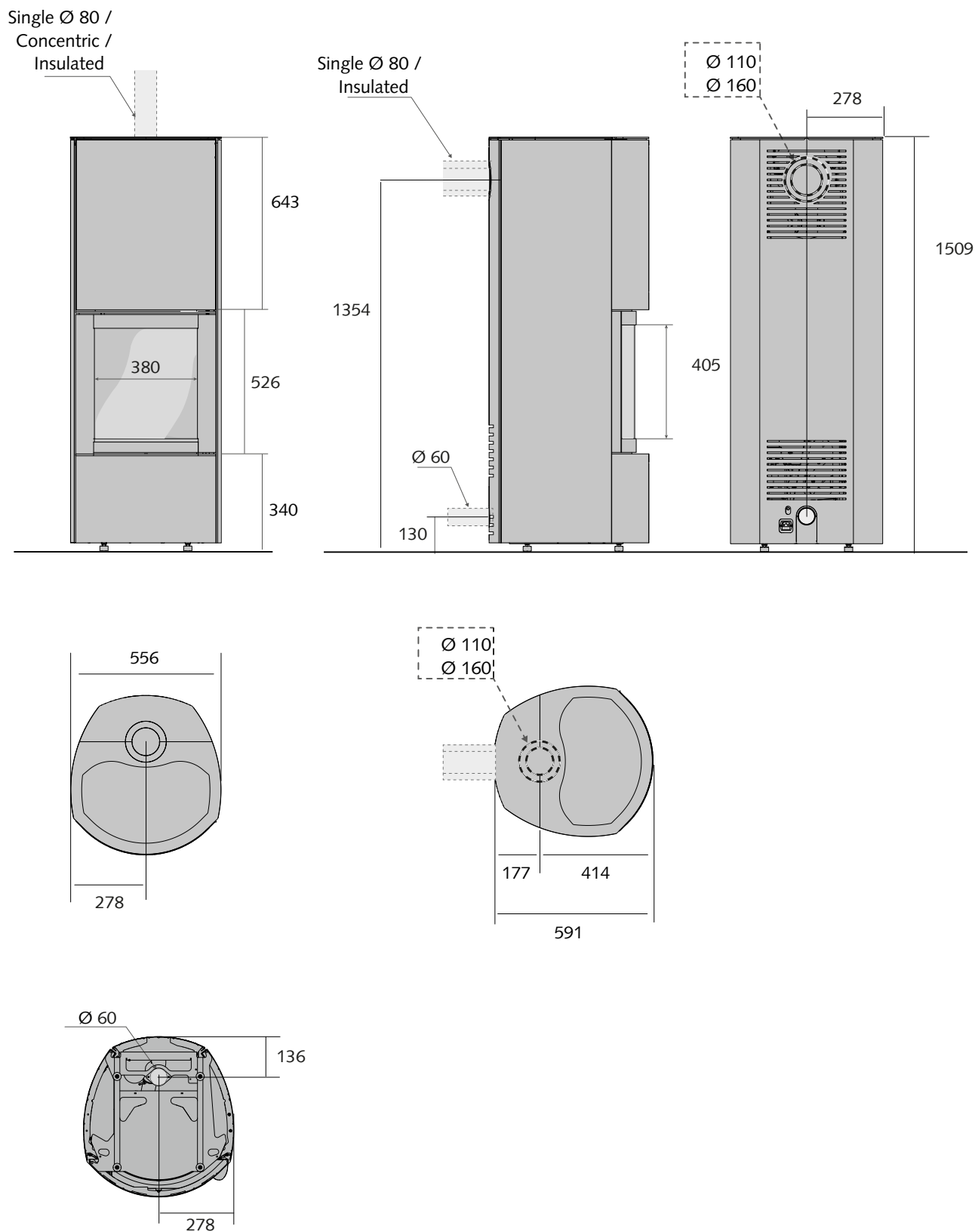


⚠ This appliance must not be used by children under 8 years of age.

⚠ This appliance may only be used by persons with reduced physical, sensory or mental capabilities if they are supervised or trained in the safe use of the appliance.

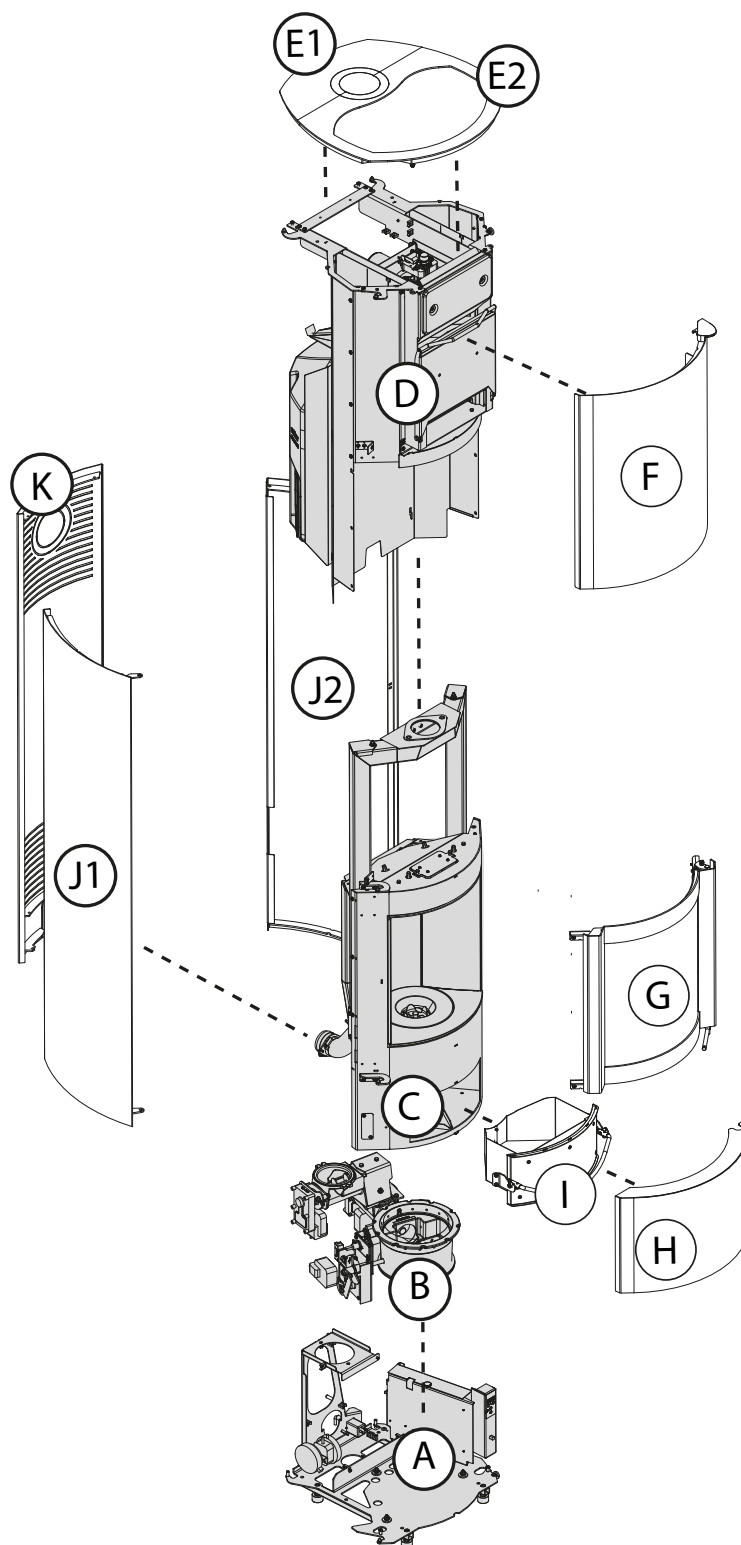
⚠ Cleaning and maintenance by the user must not be carried out by unsupervised children.

⚠ Children must not play with the appliance! Some parts of the stove - the glass and the outer walls - can be very hot even in normal use (rated power) and the radiation from the glass can be high.



Overview of the stove components

- A. Burner base with air entry system
- B. Pellet feeder screw and fire bed
- C. Combustion chamber, exchanger and safety valve
- D. Smoke extractor and pellet hopper
- E.1 Rear top shelf
- E.2 Front top shelf
- F. Loading hopper access door
- G. Combustion chamber door
- H. Ash pan door
- I. Ash pan
- J.1 left finish cladding
- J.2 right finish cladding
- K. Rear panel



PREPARATION OF THE AREA

Recommendations

The stove has to be installed in such a way as to facilitate access to sweep the stove, the connection duct and the smoke flue.

Provide for a sufficient clearance to be able to conduct operations on each of the sides of the appliance.

Only use the parts supplied or recommended by the manufacturer, Stûv s.a.

Combustion air inlet

The stove requires air for combustion.

The ideal solution

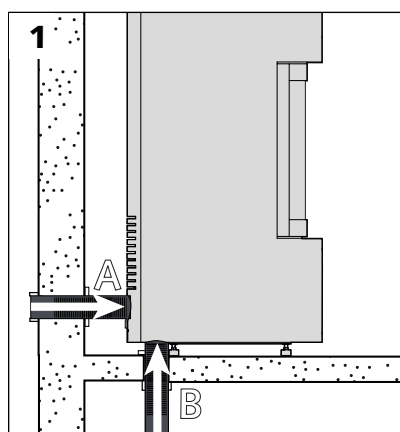
The Stûv P-20 is designed to be connected directly to an outside air inlet (independent of the air in the house) by an independent flexible tube [diagram 1A or 1B] or a concentric conduit [diagram 2]. We recommend one of these arrangements if the installation is carried out in an airtight building (with double-flow CMV).

If the stove is not connected directly to an outside air inlet...

A sufficient air inlet (minimum 30 cm²) should ideally be created close to the stove.

This air inlet comes from a ventilated empty space, a ventilated room (cellar) or from outside [diagram 3].

Certain local regulations make these measures obligatory. If local and/or national regulations are more restrictive than our instruction, they take precedence over our recommendations.



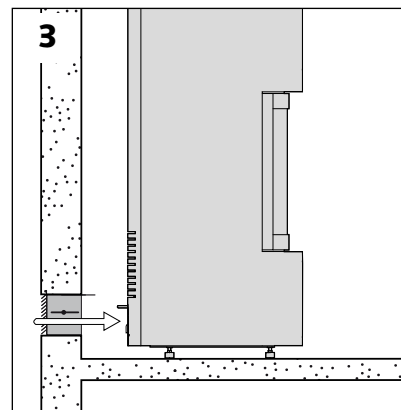
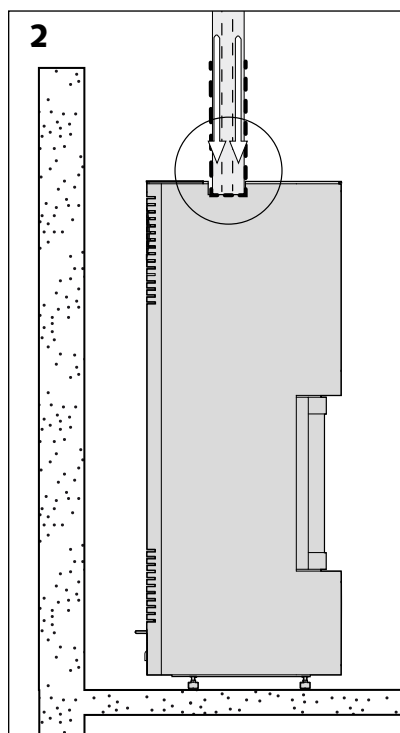
The duct that brings in outside air... (whether it is connected to the stove or not)

... will be protected on the outside by a grill the free passage section of which is at least equivalent to the section of the air inlet. Please note that the infiltration of water and the effect of the wind can damage the system.

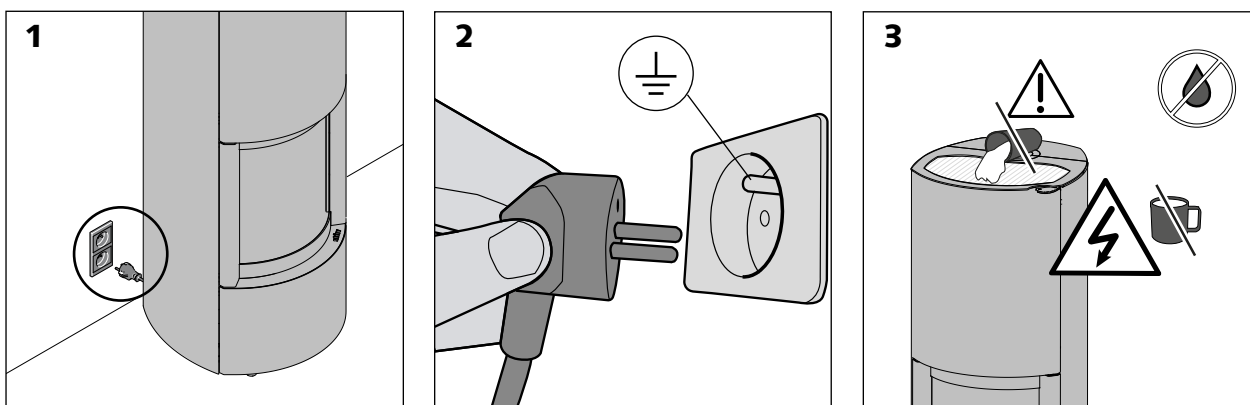
... will be as short as possible to prevent pressure loss and to prevent making the house cold.

If you use our standard flexible Ø 60 mm flue, we recommend a maximum length of 5 m and no more than 4 elbows. If you exceed these guidelines, you must compensate with a greater diameter and/or a smoother duct.

Careful not to crush the flue.



Electrical power supply

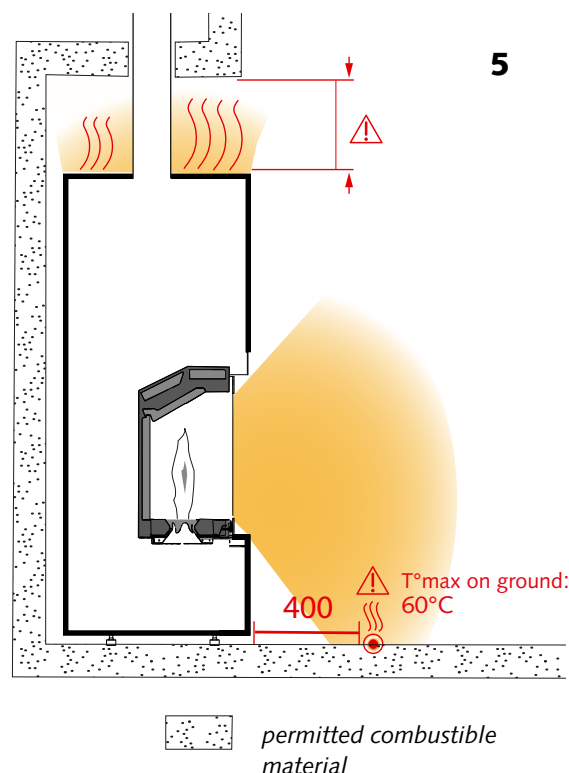
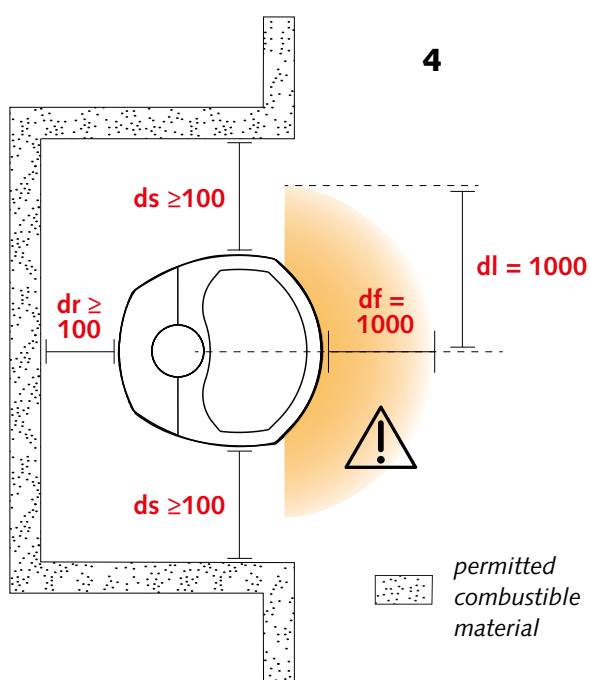


Provide for an electrical supply, ideally at the rear of the unit. The wall plug must remain easy to access once the installation is completed. **Caution! It is imperative that the plug and the electrical installation are earthed and are fitted with a differential circuit breaker 300mA. NEVER REMOVE ANYTHING FROM THE UNIT [diagram 3] !!!**

Holding capacity of the structure

Ensure that the resistance of the floor is sufficiently strong to support the stove and the construction of the cladding. If in any doubt, please consult a specialist.

Safety distances to combustible materials



Heat radiation and surrounding materials.

The heat radiated from the glass door and the walls may be significant.

Whichever way the stove is pointing, observe the safety distances related to combustible materials [diagram 4 & 5] or ensure that the materials exposed to radiated heat are resistant to high temperatures.

! Under the effect of radiation, the floor temperature can reach up to 60°C, so please take this into account when selecting the floor finish to ensure it is not altered. [* diagram 5].

Avoid "heat traps" in the hood

If the stove is situated in a bell-shaped area (ex : a former hearth), this space must be ventilated to prevent "heat traps". Allow a clearance of at least 800 mm above the device [diagram 5].

Ensure the flue's dimensions meet local regulations and the applicable installation standards in line with good practice.

Basic information

For good draught, the stove must be suited to the flue (or vice versa).

An oversized flue is as detrimental to the smooth operation of the stove as an undersized flue.

As the Stûv P-20 is a highly efficient stove, the smoke flue must be of good quality. The flue must also be as straight and smooth as possible and insulated to encourage drawing and to prevent condensation.

The ideal solution is a flue built inside the building and thermally insulated.

 An outside flue without any insulation must be avoided.

The stove must never be connected to a smoke flue serving several systems.

Take care to avoid heat loss!

If several chimney flues are available, only use one. Cap unused flues top and bottom.

Standard outlet diameter

The use of flues that are 80 mm in diameter should be preferred.

Some flue configurations may require a different diameter than that provided as standard. Should this be the case, please consult your retailer

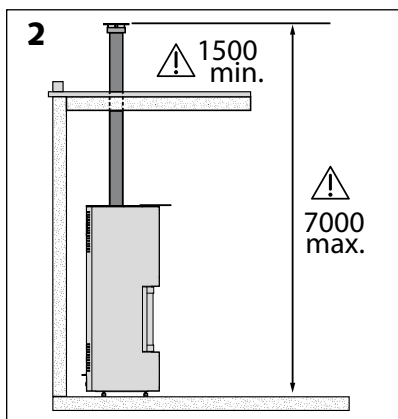
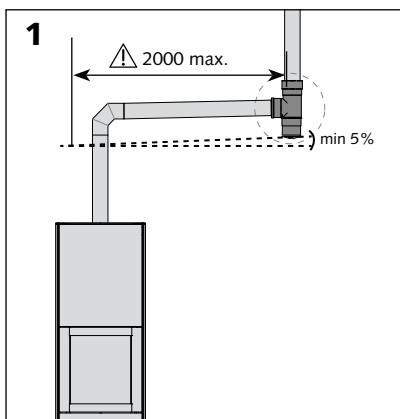
Special cases...

The maximum length of the horizontal parts is 2m with a minimum slope of 5%.



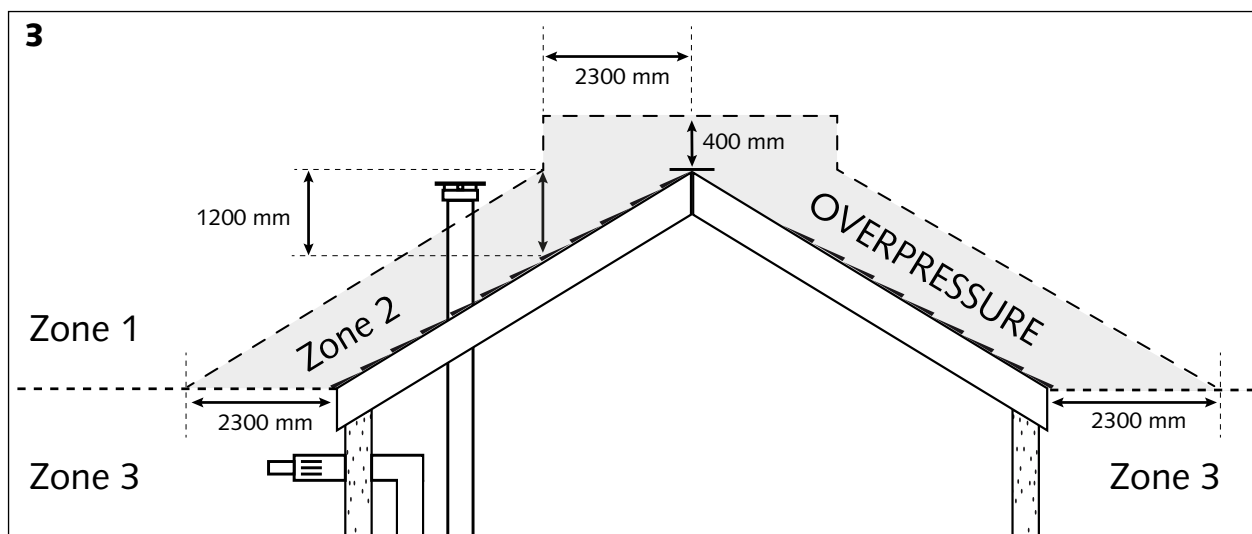
Stûv recommends that each installation complies with installation standards EN 15287-1 or -2, and that a calculation note is drawn up in accordance with standard 13384-1 and its appendix, to ensure that the unit does not operate in a condensation regime. This calculation must include the appliance's intended power range. Check that your flue complies with standards EN1856-1 and EN 14989-2, which characterize metal flues.

Connection to the smoke flue



The length of the horizontal flue must be 2m at the most and with a minimum slope of 5% [diagram 1].
Make sure you fit a tee to collect collect soot

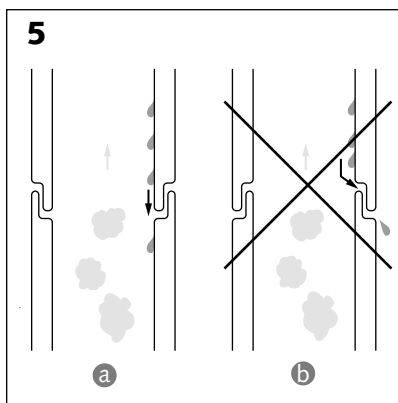
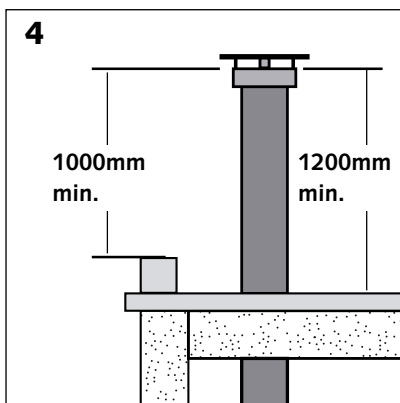
⚠ The maximum height of the flue must be **1.50 m**. The maximum flue height from the bottom of the unit is **7m** [diagram 2].



Authorized outlet [see diagram 3]

Flue type	Zone 1	Zone 2	Zone 3
concentric flues	✓	✓	✓*
all other flues	✓		

* Warning! the P20-S is only compatible with Poujoulat for installation in zone 3.



It is recommended that a flue is used whose outlet extends by at least 400 mm above the ridge of the roof or by at least 1.2 m for a flat roof [diagram 4].

Air-tightness

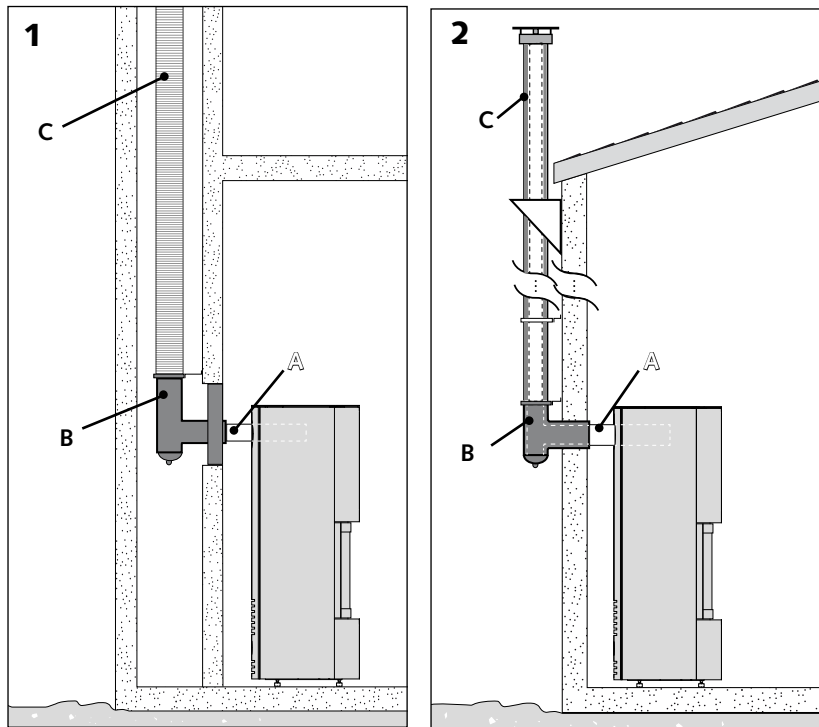
The various components which make up the connection between the stove and the smoke flue and those which make up the flue itself have to be fitted so that they are airtight for the condensation [diagram 5a] rather than the smoke [diagram 5b].



The recommendations below do not exempt you from complying with current regional regulations on stove installation!

Connection to the smoke flue (in accordance with EN 13384-1)

Horizontal connection (rear output)



Connection to a masonry chimney [diagram 1].

A tube must be used in a masonry chimney to avoid condensation.

> Connect the single-wall connection duct [A] to a 90° tee-piece with a plug [B].

> Fit flexible ducting inside the chimney to tube it [C].

⚠ To avoid condensation, a masonry chimney must be lined!

⚠ Lining a ventilated chimney greatly increases the risk of condensation.

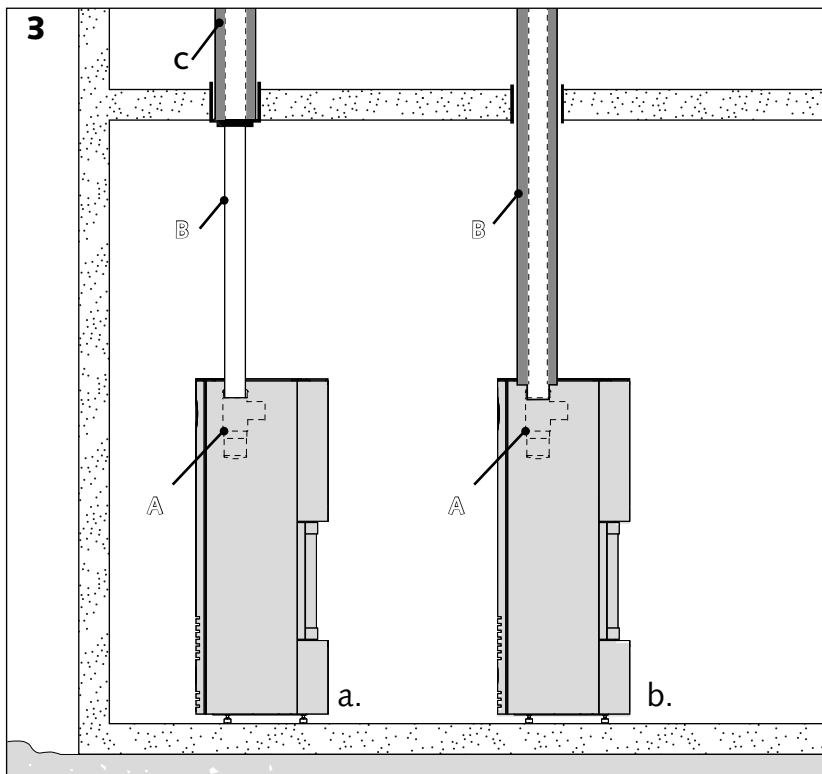
Connection to an outside insulated flue [diagram 2].

> Connect the single-wall connection duct [A] to a 90° double-walled tee-piece with a plug [B].

> Use double-wall stainless steel ducts [C].

⚠ It is imperative to insulate the outer duct.

Vertical connection (upper output)

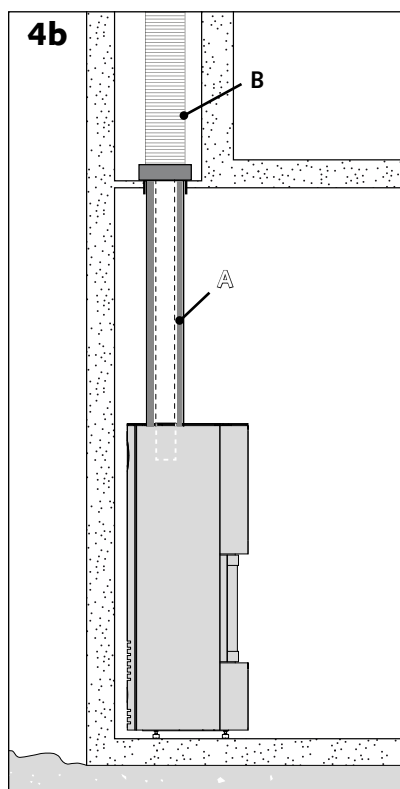
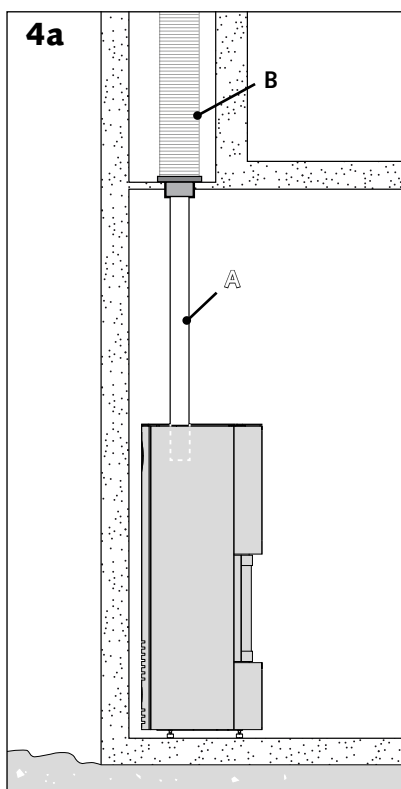


New internal connection [diagram 3].

For larger outlets, your P20-S will be delivered with a 90° Tee [A] (see details p.34). This tee allows you to connect to a single-wall flue [diagram 3a] or an insulated double-wall flue [diagram 3b].

Stûv recommends the use of a double-wall flue directly at the stove outlet [diagram 3b]. This solution is more aesthetically pleasing and reduces the risk of condensation.

⚠ As a minimum, you are required to use an insulated flue [C] from the ceiling opening of the room where the stove is installed!



Connection through an existing inner pipe [diagram 4a & 4b].

> At the appliance outlet, the connecting flue [A] can be single-wall [diagram 4a] or double-wall insulated [diagram 4b].

> Pipe the chimney with a flexible conduit [B].

⚠ Existing chimneys must be lined to prevent condensation.

⚠ Lining a ventilated chimney greatly increases the risk of condensation.

Concentric flue gas ducts (EVAPDC)

Mandatory air adjustment and UPS battery



Your Stûv P20-S stove has been specifically developed to achieve an exceptional level of airtightness. This optimization allows it to meet particularly demanding installation configurations but requires **mandatory air adjustment for concentric ducts, regardless of your outlet area**, to ensure clean combustion. Strictly follow the parameter adjustment instructions described on page 48.

Stûv recommends the use of an UPS protection battery to compensate for network power losses. This battery must support at least 1500VA. There are different types of devices available that will provide protection against overvoltage and/or undervoltage.

Mandatory constraints related to concentric ducts

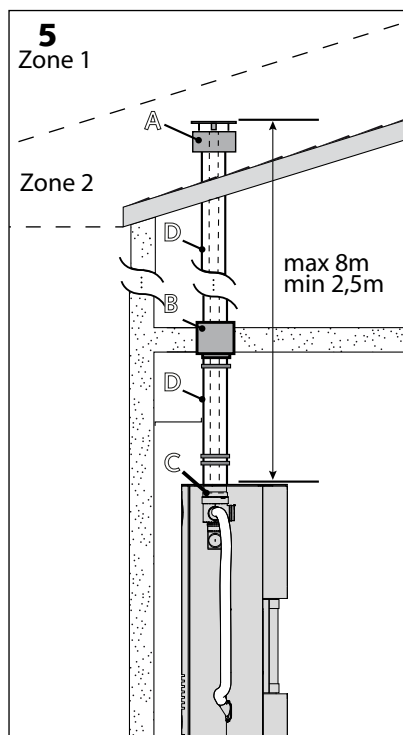
⚠ REMINDER: Concentric ducts must only be installed inside the building!

Your stove is compatible, among others, with **MODINOX** and **POUJOULAT** accessories. For a detailed listing, please refer to page 36, depending on your type of installation.

⚠ Strictly adhere to the constraints listed in the table below!
Stûv reminds you that failure to comply with these will directly result in non-compliance of your installation!

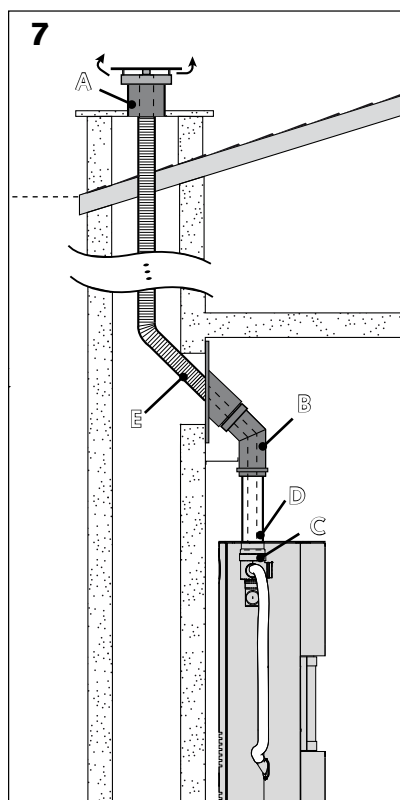
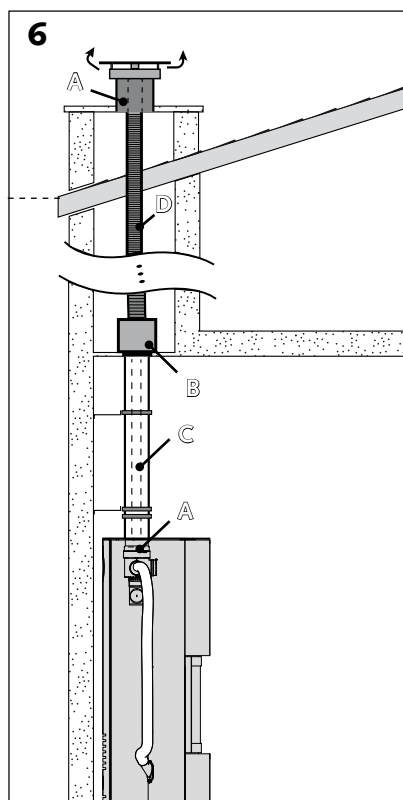
Installation with vertical terminal	
Maximum total duct length	8m
Minimum total duct length	2,5m
Maximum number of allowed bends	2
Maximum bend angle	45°
Maximum total deflection	2,5m
Installation with horizontal terminal	
Minimum total vertical duct length	0,5m
Maximum total horizontal duct length	1.1m (with at least 0.4m of external outlet)

Concentric with VERTICAL TERMINAL



Connection to a new concentric flue [diagram 5].

- > Install a concentric terminal in zone 1 or zone 2 [A].
- > Install your ceiling connector [B].
- > Place the Stûv concentric adaptor at the appliance outlet [C].
- > Install concentric ducts [D].



Concentric connection to an existing internal flue [diagram 6].

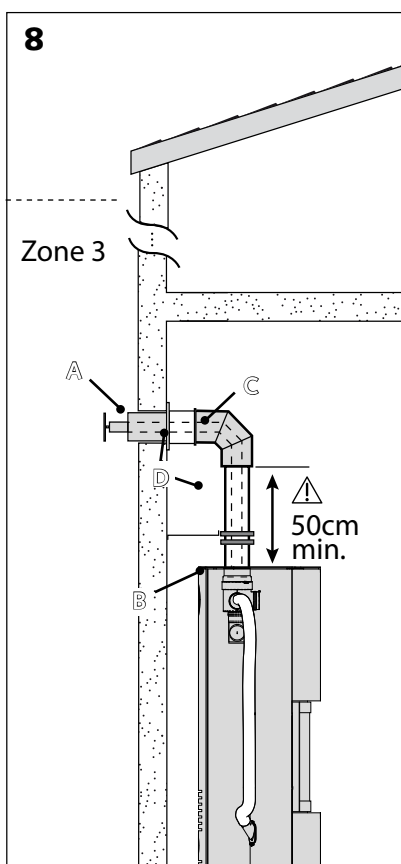
- > Install a concentric terminal in zone1 or zone2 [A].
- > Install the ceiling kit [B].
- > Use a concentric flue [C] between the ceiling kit and the Stûv concentric adaptor [A].
- > Pipe the existing flue with a flexible hose [D] to the concentric terminal.

Concentric connection via a masonry chimney [diagram 7].

In this configuration, the space between the lining and the existing masonry allows combustion air to enter.

- > Install a concentric terminal in zone1 or zone2 [A].
- > Install the Poujoulat 45° flue connection kit.Poujoulat (ref: KRFL 45 PGI) [B].
- > Place the Stûv concentric adaptor [C] at the appliance outlet.
- > Use a concentric flue [D].
- > Pipe the existing flue with a flexible hose [E] to the concentric terminal.

Concentric with HORIZONTAL TERMINAL



⚠ Can be configured using Poujoulat accessories only!
Configuration is only possible using Poujoulat accessories. In the current state of coupling tests, only coupling with Poujoulat brand terminals has been validated by Stûv!

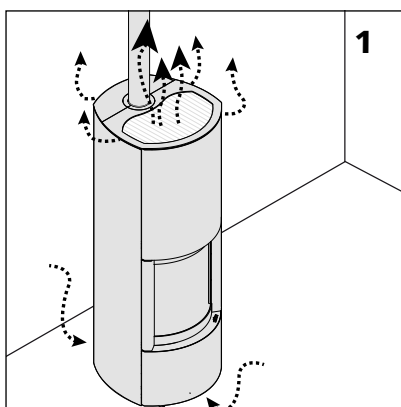
Connection to a concentric flue outlet on the facade [diagram 8].

- > Install a concentric terminal in zone 3 [A].
- > Place the Stûv concentric adaptor [B] at the outlet of your appliance.
- > Connect [A] to [B] using a 90° concentric elbow [C] and concentric ducts [D].

⚠ Comply with the zone 3 installation requirements laid down by your regional regulations!

⚠ Make sure you respect the safety distances from the smoke outlet.

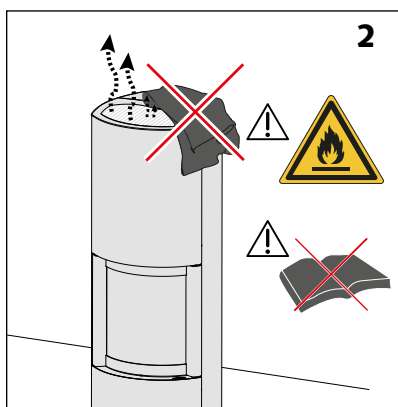
Convection air circulation



The circulation of convection air in the Stûv P20-S is done naturally.

The air intake is in the base of the unit and under the lantern. Hot air comes out of the top part of the product [diagram 1].

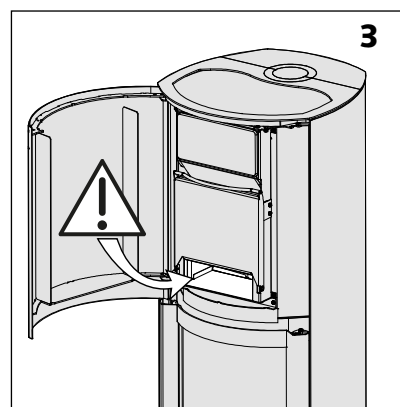
⚠ Always leave the air passages completely free! Never place anything on top of the appliance [diagram 2]!



Never obstruct the opening below the loading hatch [diagram 3]!

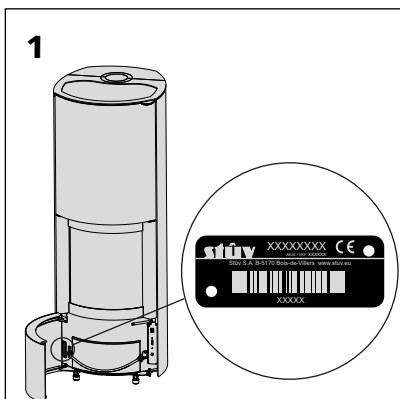
This circulation of convection air also has an impact on the thermostat regulating the appliance.

If you have opted for the remote control option, please place it in the room where the Stûv P20-S is located. Be careful not to position it too close to the heat and radiation of the stove, or exposed to any other heat source (other heating appliance, sun, etc.).



INSTALLATION

On taking delivery of the equipment



Please note !

When you take delivery of the stove, please check that the glass has not been broken during transport. **The guarantee only covers damage caused during transport if mentioned on the delivery note.**

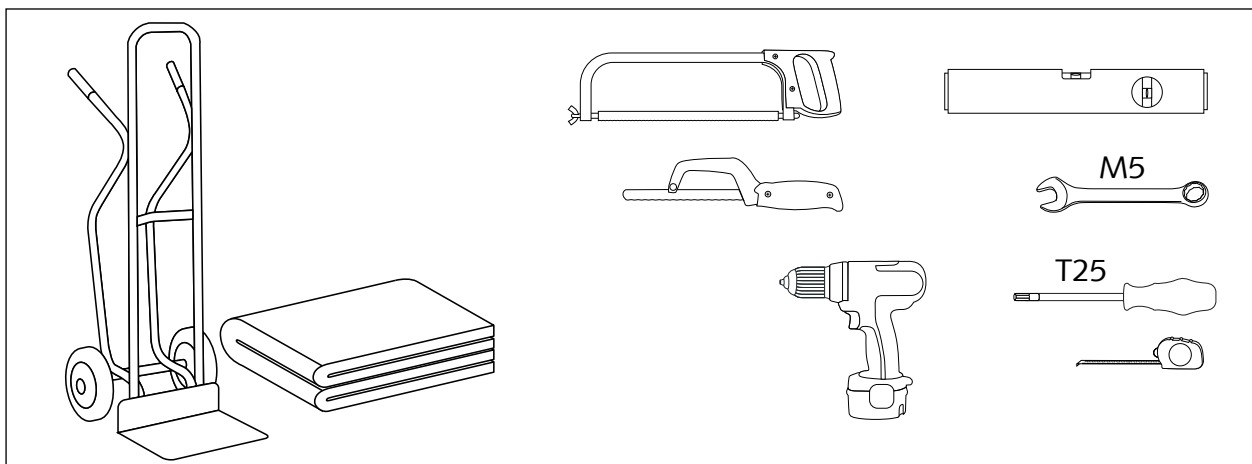
Accessories

If accessories have been ordered, they can be found around the stove or its packaging. Check receipt of these.

Complaints

In the event of a complaint, always quote the serial number which can be seen on the stove [diagram 1].

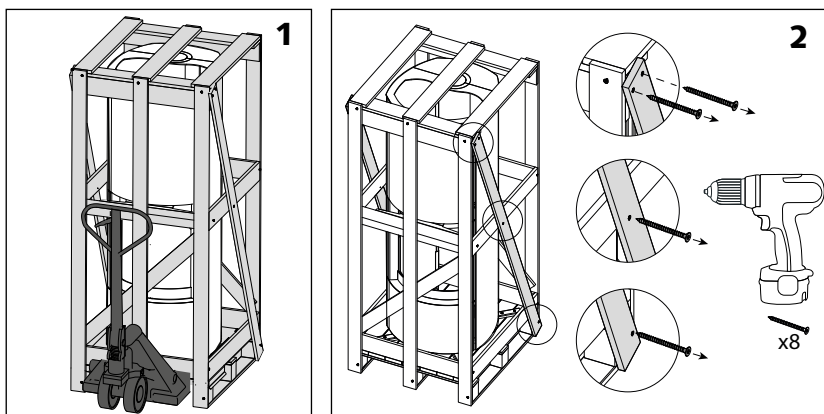
Tools required



Unpacking

Caution!

The paint is not baked, so it's relatively fragile, but it does harden with the first heating. Please therefore handle the unit with care when installing it.



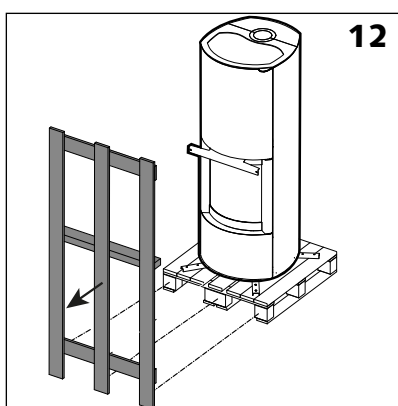
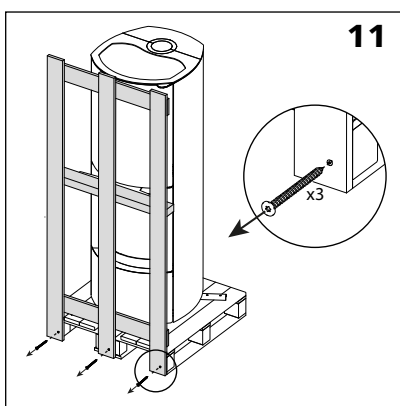
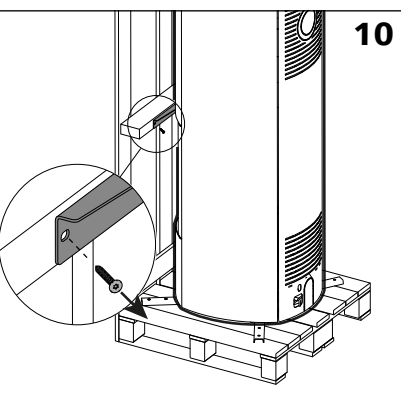
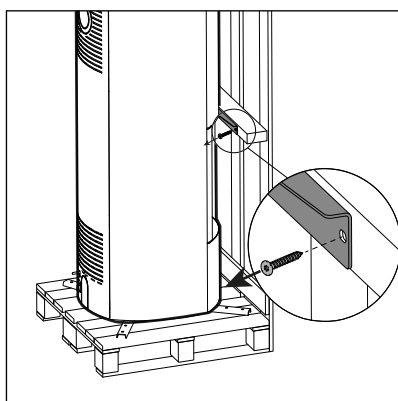
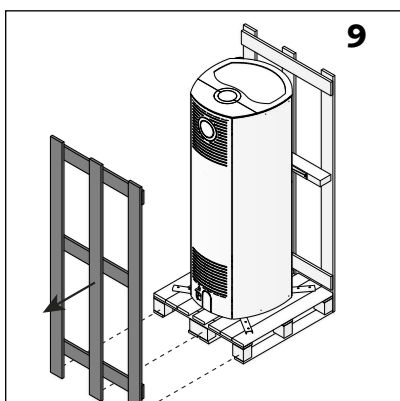
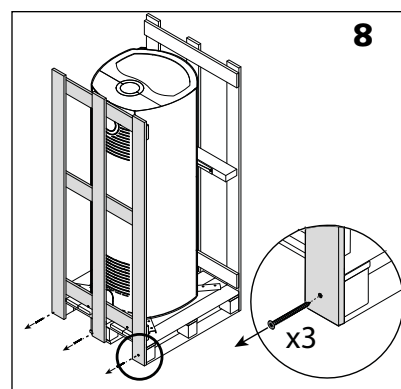
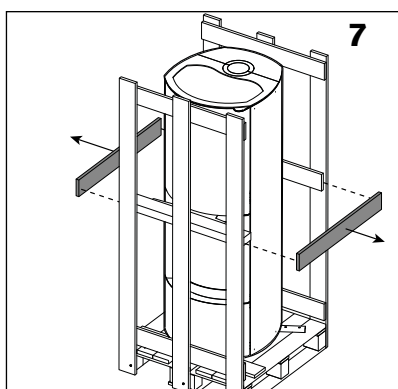
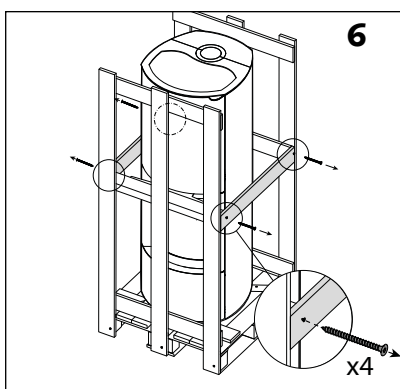
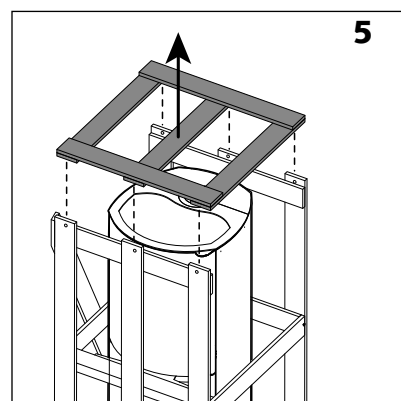
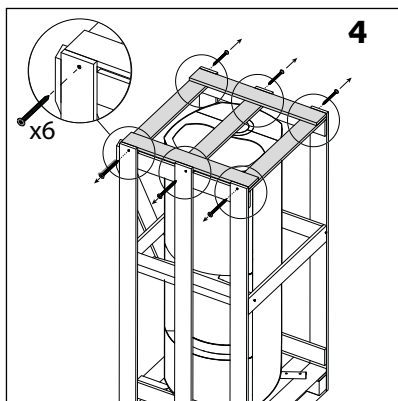
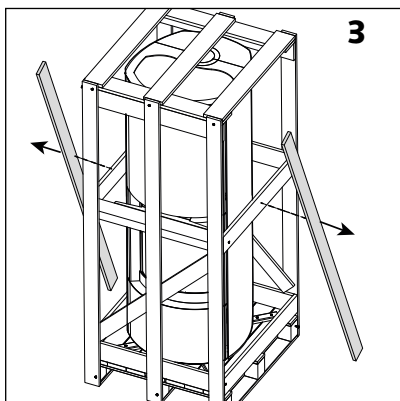
Moving

When the stove is still packed, use a pallet truck [diagram 1] or a hand truck.

When using a hand truck :

> Place a protective cover over the hand truck! (e.g. blanket, cardboard, etc.).

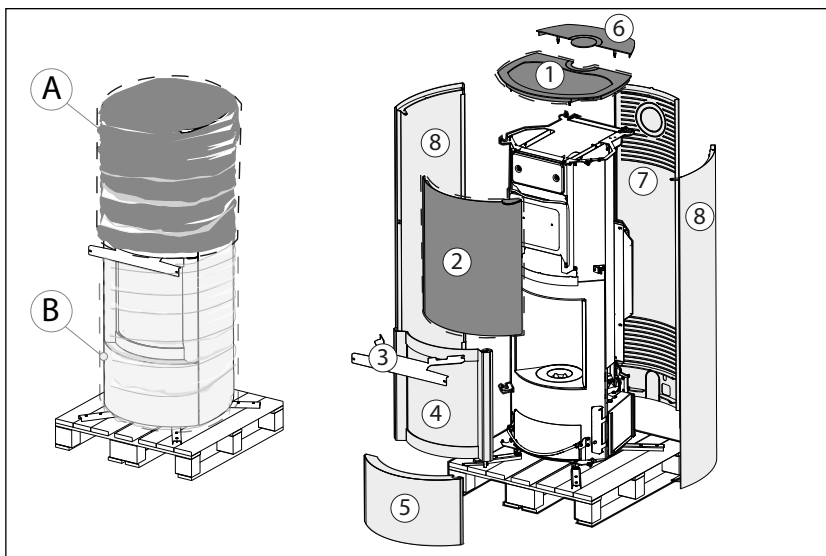
> Pick up the stove from the front.



⚠ Be sure to remove the two transport handle retaining screws [Figure 10] before the 3 lower front pallet screws [Figure 11].

Stove preparation

⚠ Before the connection phase, Stûv strongly advises you to remove all facings from your P20-S to avoid any risk of scratching, soiling or other unsightly damage to your stove.
For the duration of the operation, leave the 4 brackets in place.

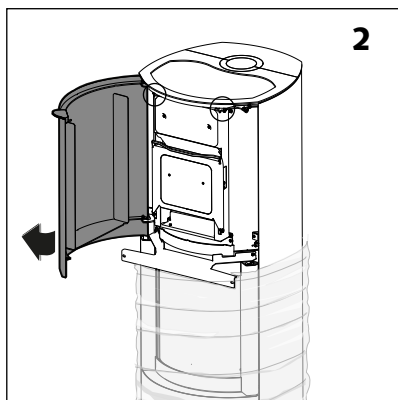
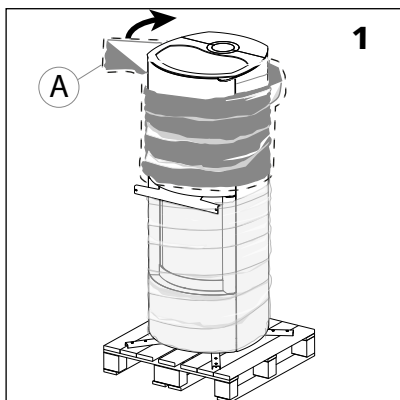


⚠ Please note: first, remove only the upper part of the stretch film [A].

Please remove the facings in the following order:

1. Front top shelf
2. Loading hopper access door
3. Carrying handle
4. Combustion chamber door
5. Ash drawer door
6. Rear top shelf
7. Rear panel
8. Side panels

Removal of door and gate

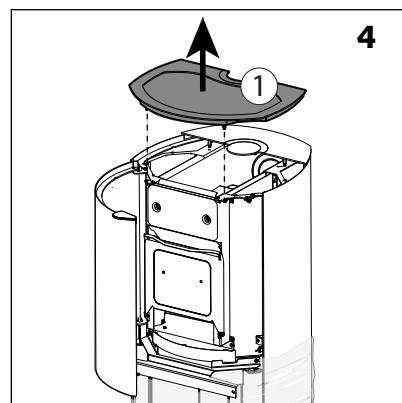
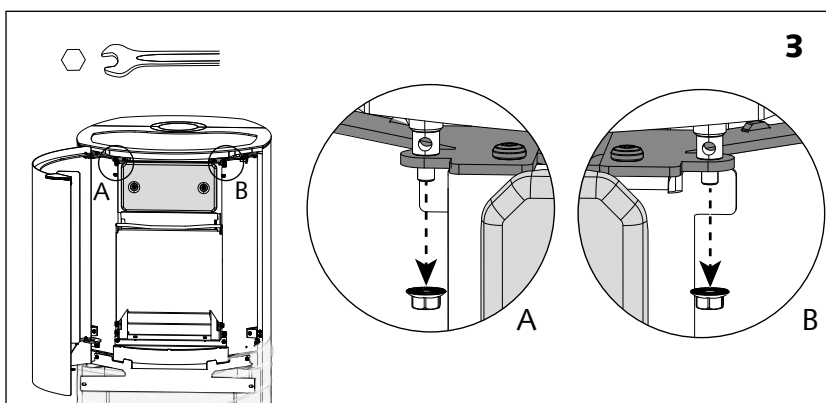


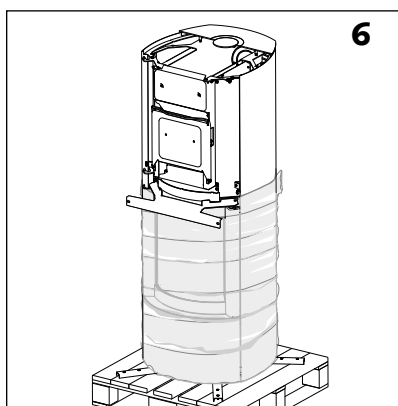
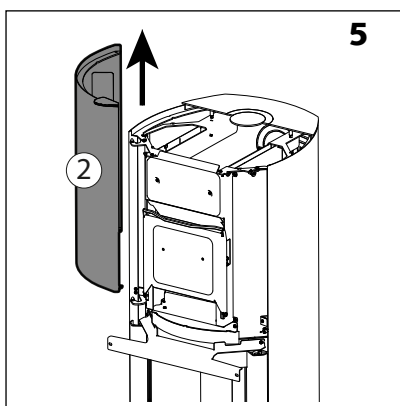
⚠ Store each disassembled part safely, awaiting final placement.

> Remove the top stretch film [A].

> Open the hopper access door and unscrew the two bolts holding the front shelf in place [diagram 2].

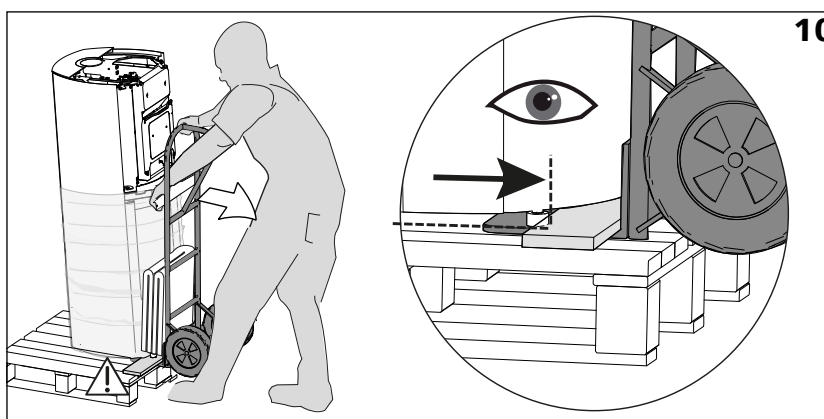
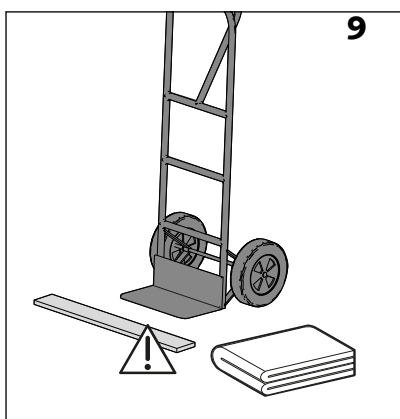
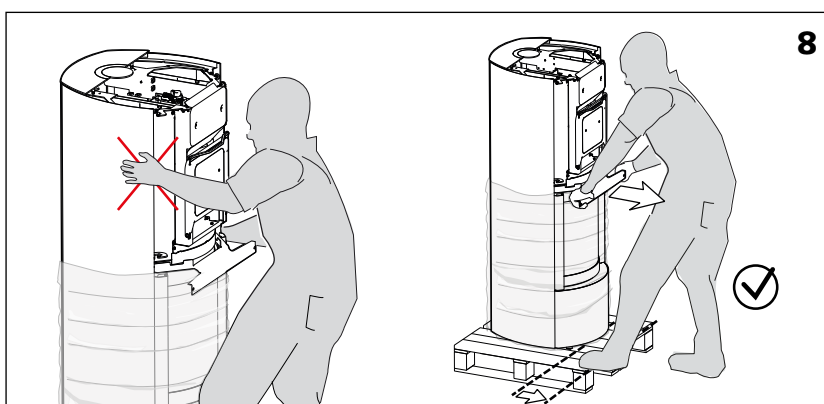
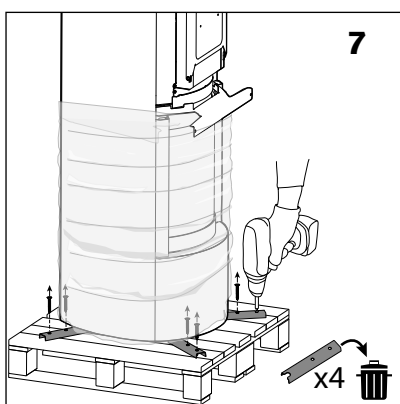
> Open the loading hopper access door [diagram 5].





At this point, you can transport the stove directly from the truck to its final location. The carrying handle is designed for this purpose. **⚠ If you choose this option, please handle the unit with care!** N.B. In any case, you will be asked to remove all facing before proceeding with the final installation of the P20-S.

[Option A] Quickly moving the stove to the installation site (optional)



If you want to get the unit to its final location as quickly as possible, please observe the precautions described above.

⚠ Please note that the paint is still sensitive to scratches before the unit is heated for the first time! Stûv recommends removing all facing before beginning installation (see next page).

> Remove the 8 fixing screws from the bottom pallet [diagram 7].

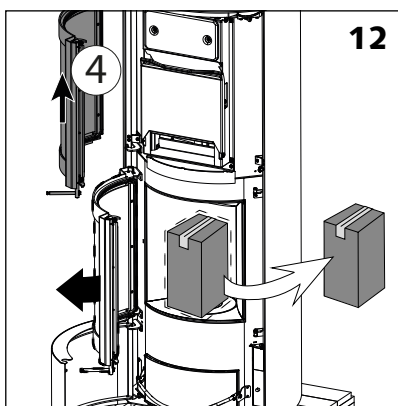
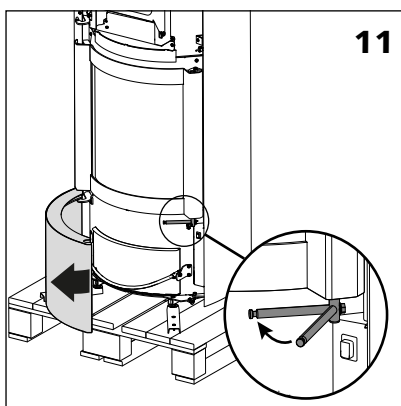
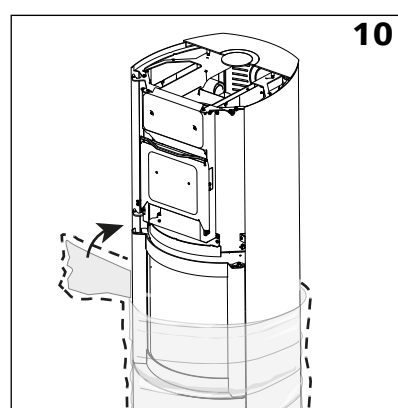
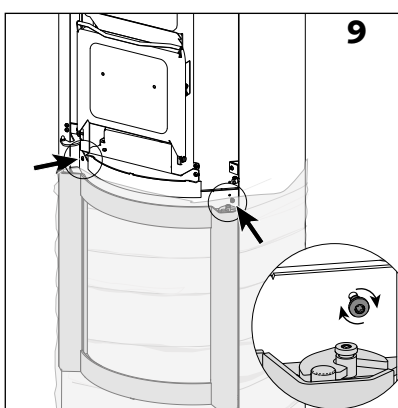
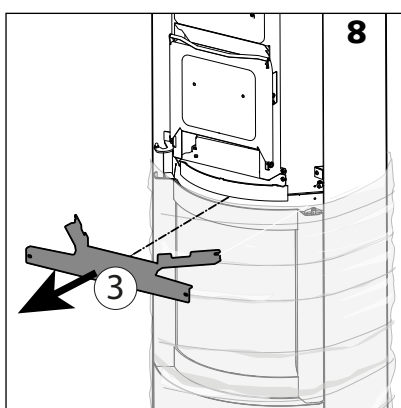
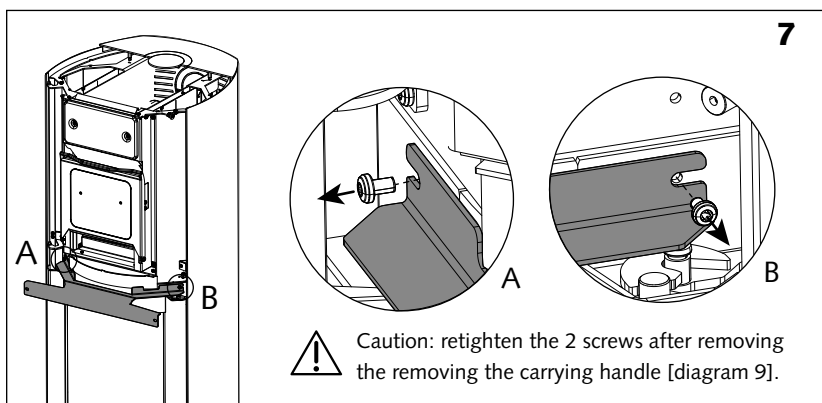
> **Use the carrying handle** to move the P20-S to the front edge of the pallet [diagram 8].

> To prevent damage to the appliance during loading, be sure to place one of the boards from the packaging so as to create a stop between the front legs of the stove and the hand truck [diagram 9]. You should also place a blanket between the stove and the hand truck.

[Option B] Securely moving the stove (recommended)

> As paint is sensitive to scratches before the unit is heated for the first time, Stuv recommends that all facing be removed before installation begins.

Please follow the stove preparation phase described below.



> Remove the carrying handle to clear access to the combustion chamber door [diagram 7]. Screw the screws back into position [diagram 9].

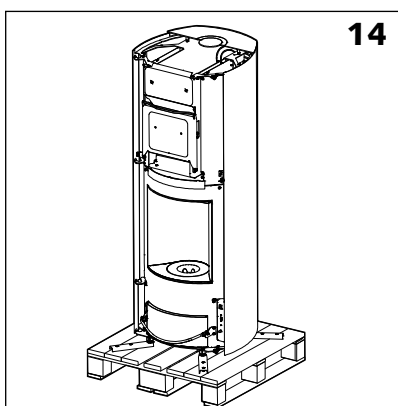
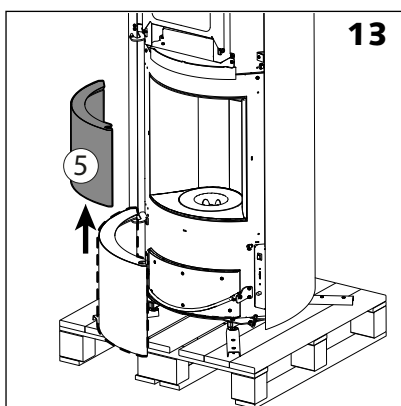
> Open the door and operate the combustion chamber handle [diagram 11].

Note:

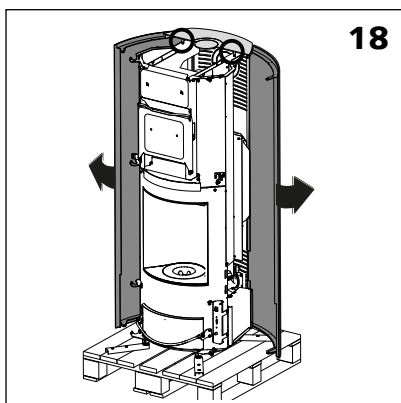
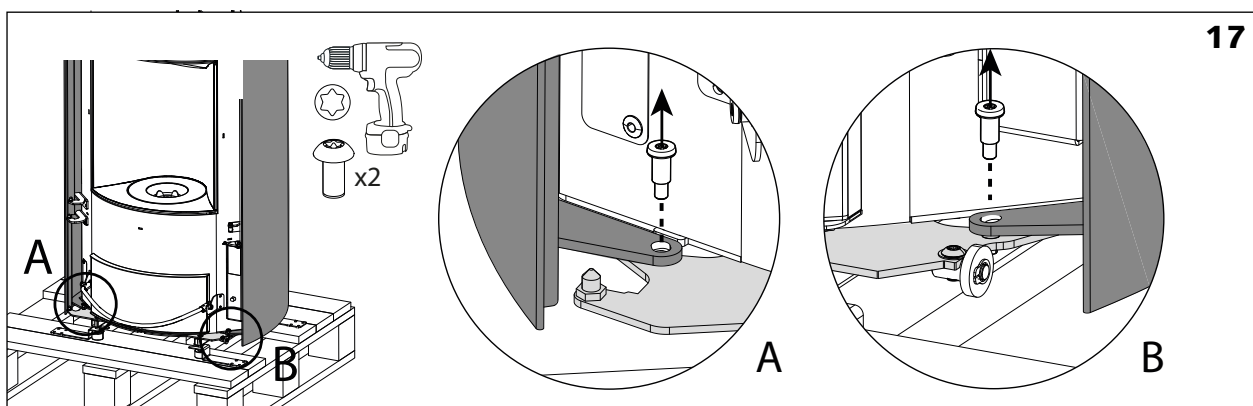
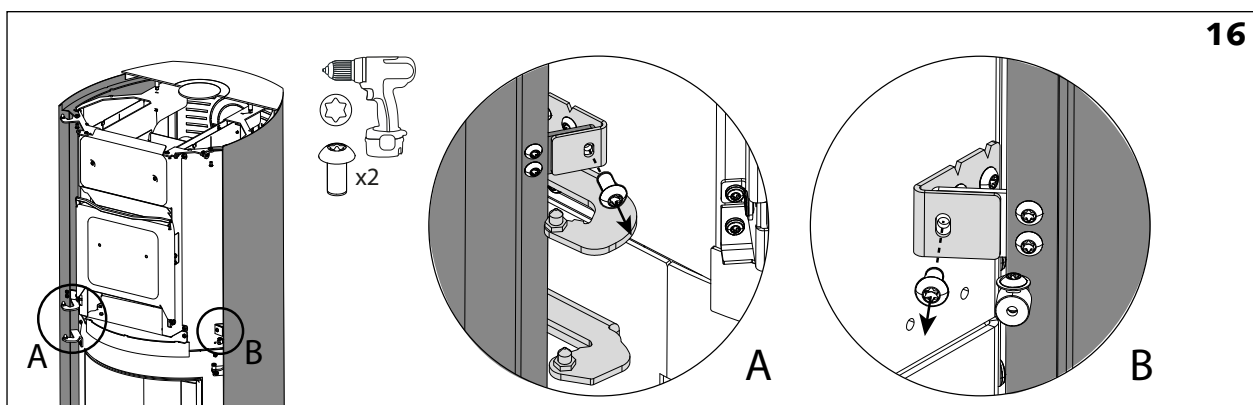
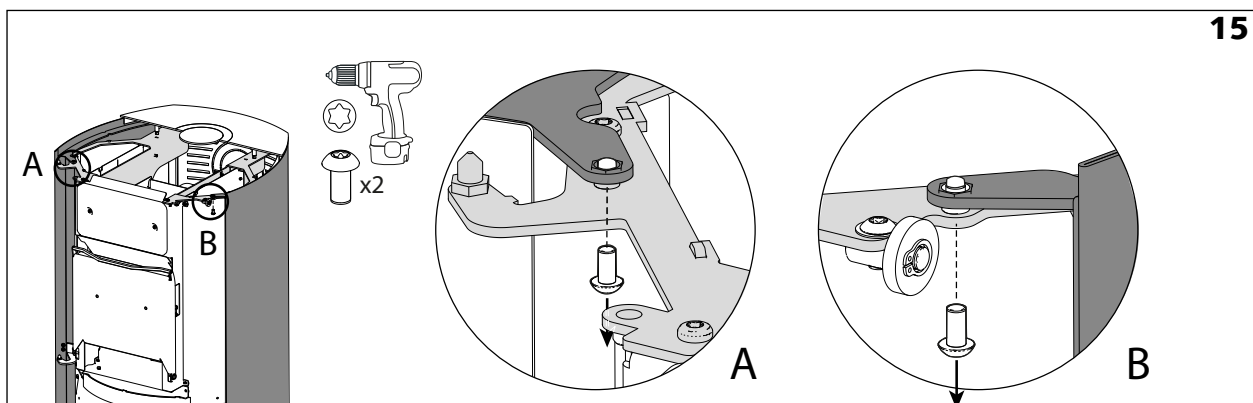
When opening the appliance door for the first time, remove the box contained in the combustion chamber [diagram 12]. Check the contents of the box (see section "Checking the contents of the combustion chamber").

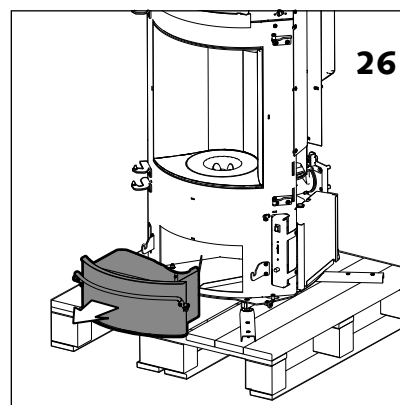
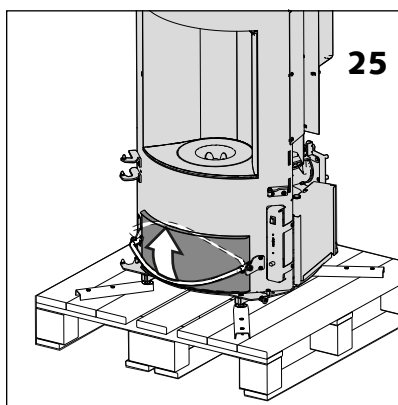
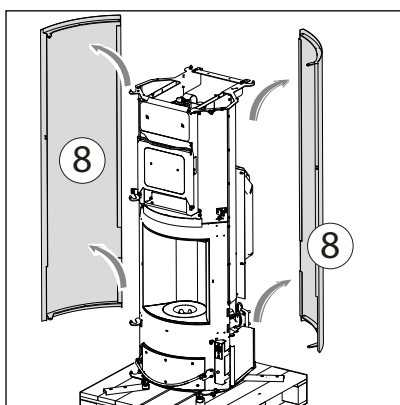
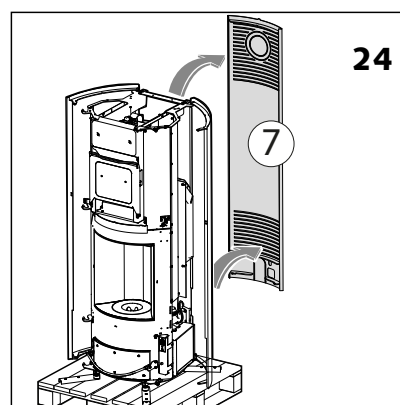
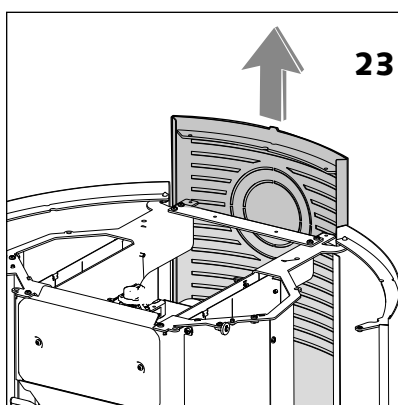
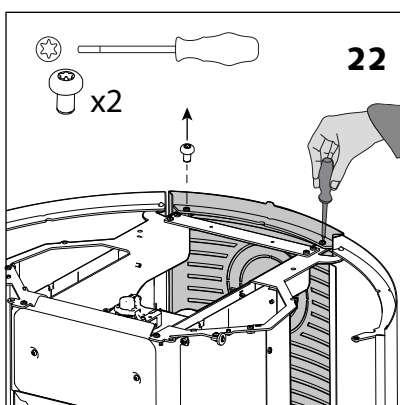
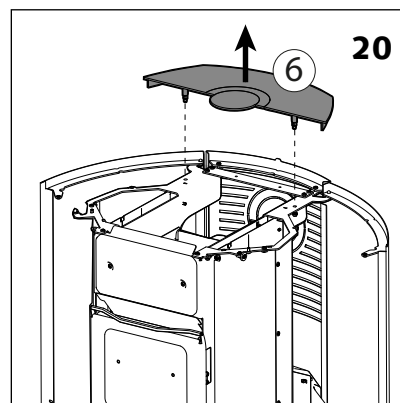
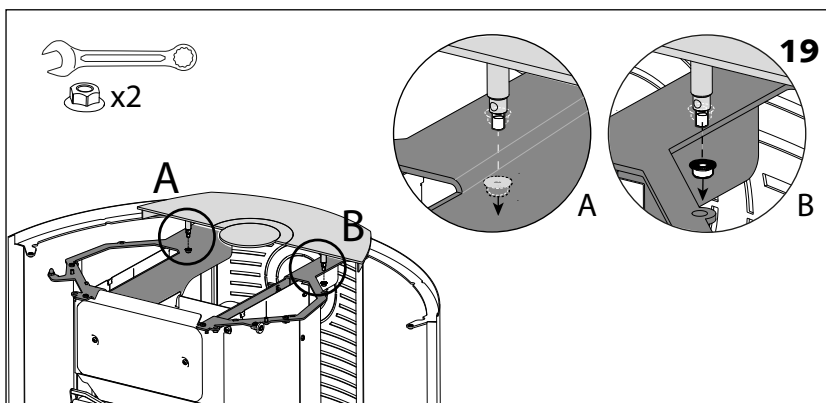
> Then remove the wicket door [diagram 13].

> Follow the rest of the procedure to remove the facings [diagram 15 to 26].

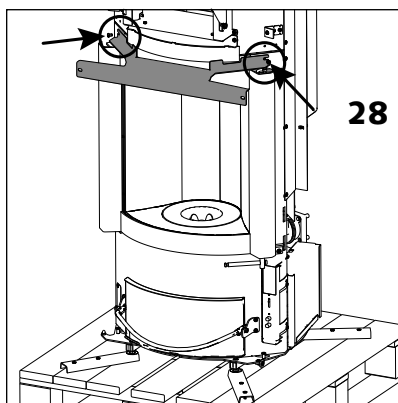
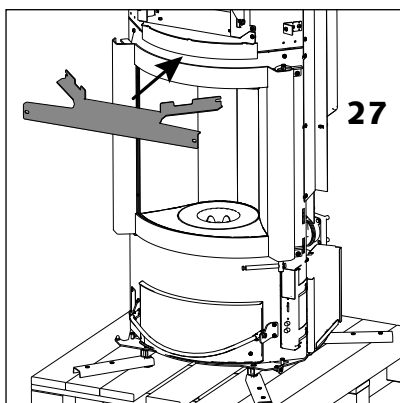


Opening the side panels





Carrying handle attachment



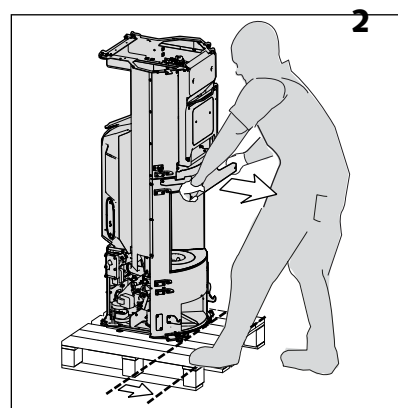
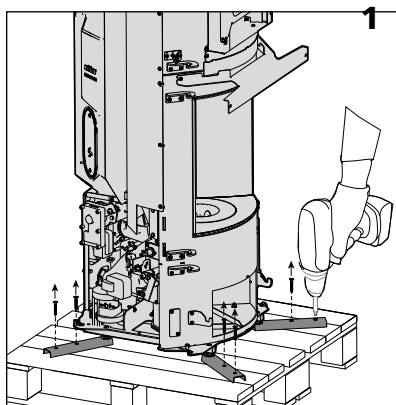
> Before transporting, return the handle to its original position.

Transporting the stove

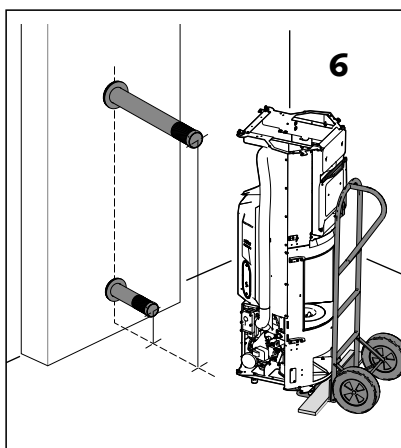
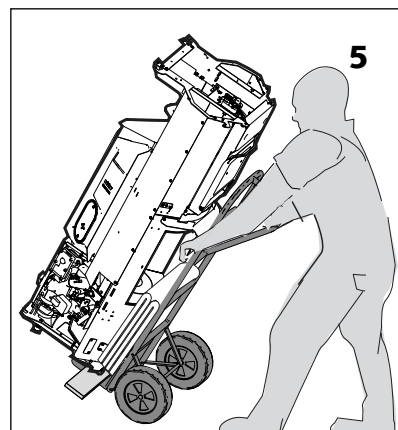
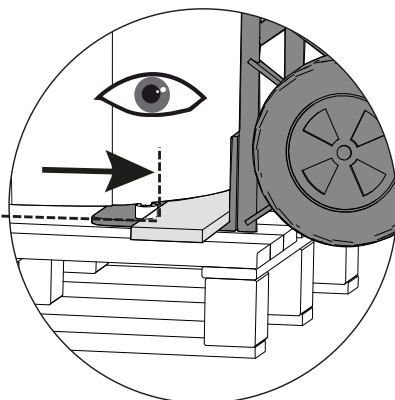
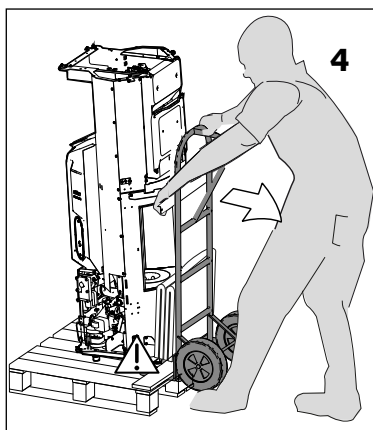
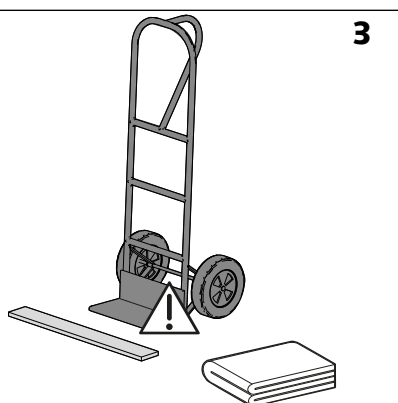
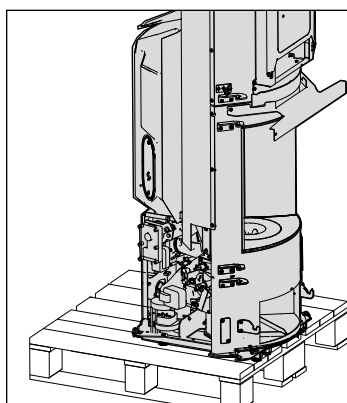
Once the hearth is exposed, you can proceed with the installation.

> Remove the 8 fixing screws from the lower pallet [diagram1].

> Use the carrying handle to bring the P20-S to the front edge of the pallet [diagram2].



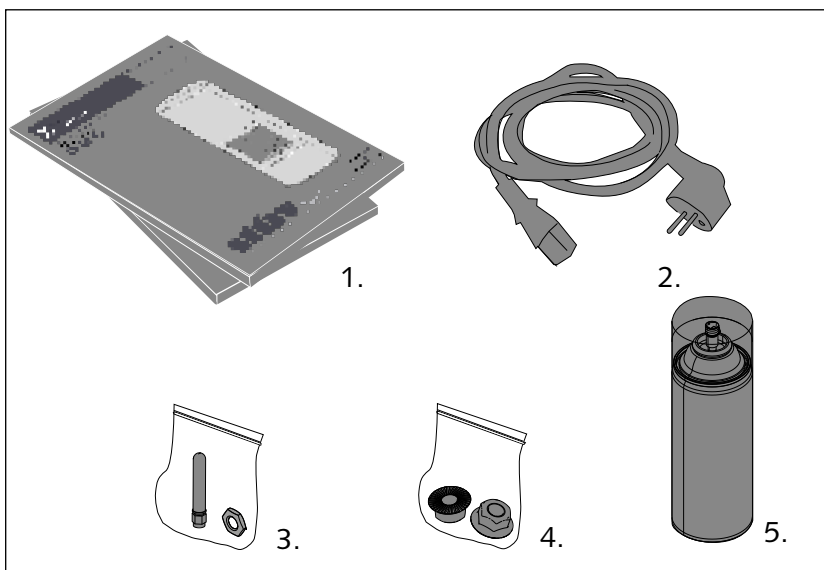
> To prevent damage to the appliance during loading, be sure to place one of the boards from the packaging to create a stop between the front legs of the stove and the hand truck [diagram 3&4]. You should also place a blanket between the stove and the hand truck.



> Once brought to the final connections can then be made. can then be made.

Please refer to the instructions covering your type of installation.

Checking the contents of the combustion chamber

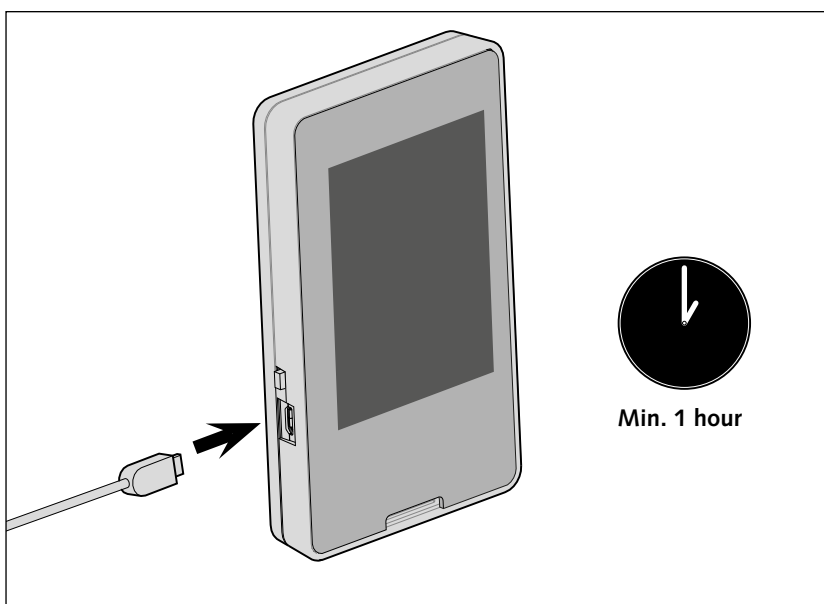


In the combustion chamber you will find:

A box containing:

- > installation and operating instructions (1).
- > power plug (2)
- > Wi-Fi antenna (3)
- > two nuts for additional front shelf (4)
- > a can of paint (5)

The first charge must last at least one hour! ! (optional)

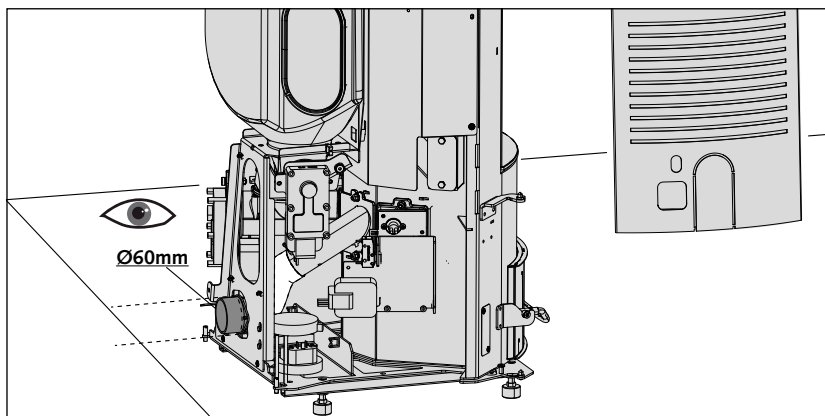


The remote control is **ONLY** available as an option.

> If you have chosen the remote control option, please charge it directly using the cable provided. If you have chosen the remote control option, please charge it directly using the cable provided ⚠ **The first charge should last at least one hour!**

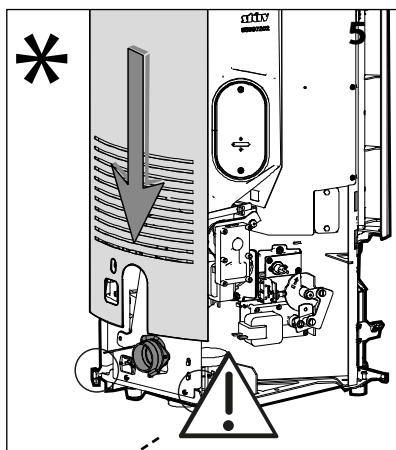
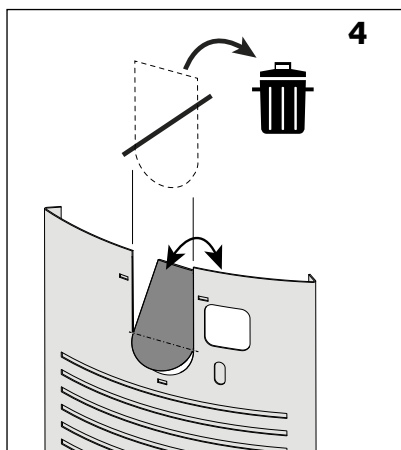
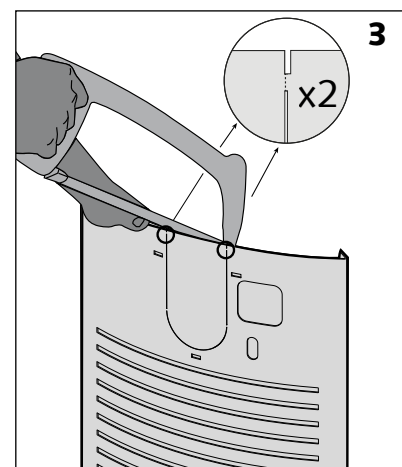
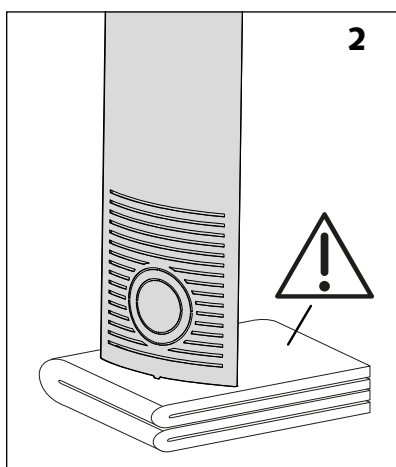
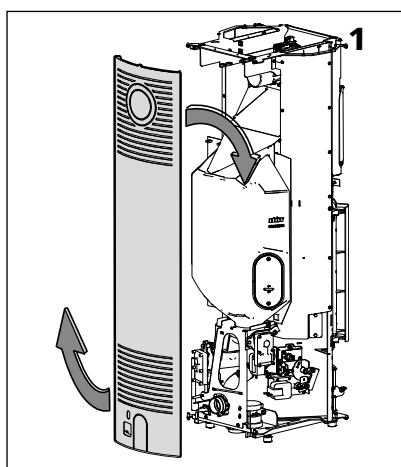
> The rest of the remote control installation procedure will be described later, when you commission the unit.

Outside air connection from the rear of the unit



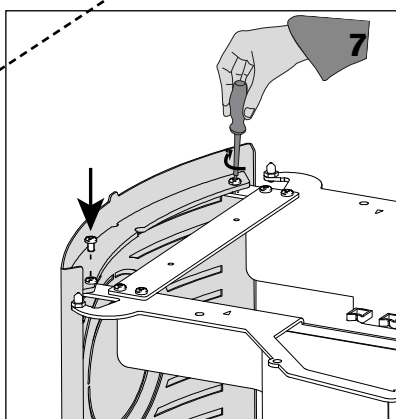
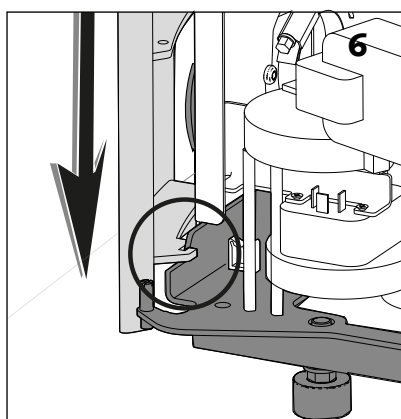
Your P20-S is initially configured for air supply from the rear of the unit [diagram 1]. If you wish to connect air from the underside of the unit, please refer to the next page.

⚠ The supply line must not exceed 5 metres in length and no more than 4 bends!



> Be careful to protect the facing during the operation [diagram 2].

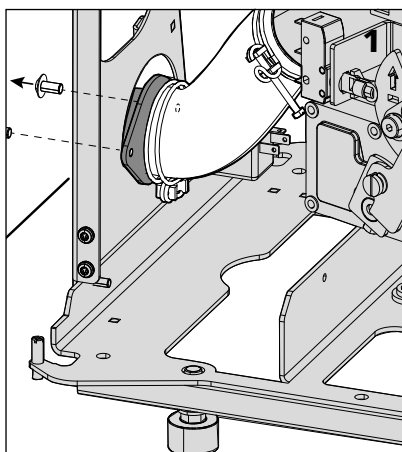
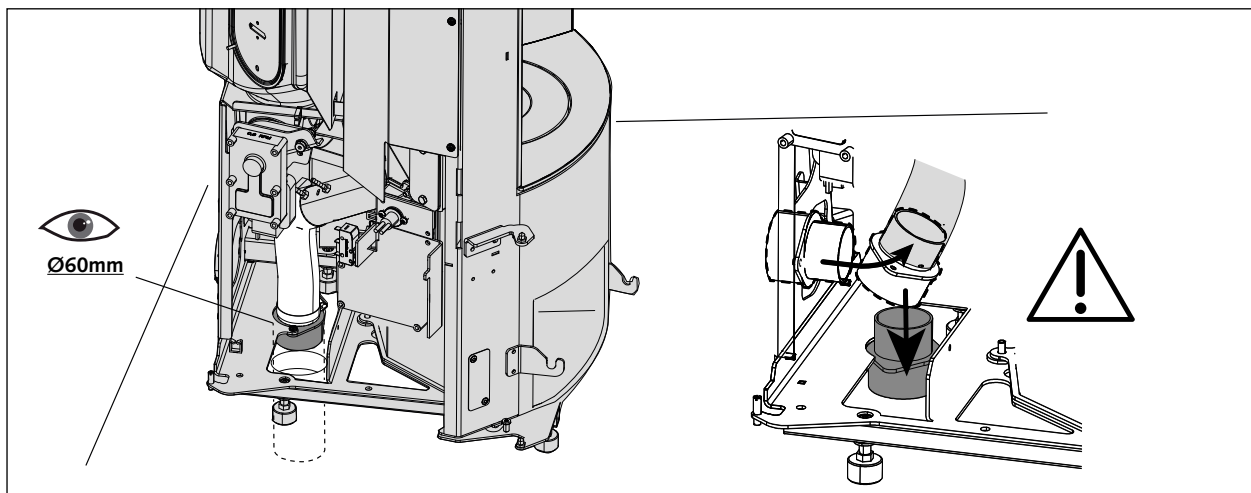
> To use the rear air intake, saw off the pre-cuts in the rear cladding to free up access to the connection flange [diagram 3&4].



⚠ NOTE*: if your flue connection is also from the rear, an additional cut must be made before installing the facing.

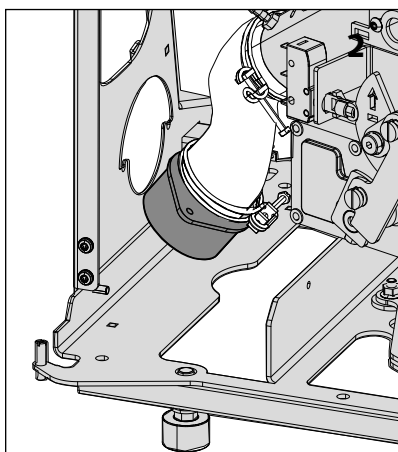
Please refer to the "Flue connection" chapter if this is the case.

Outside air connection from the rear of the unit

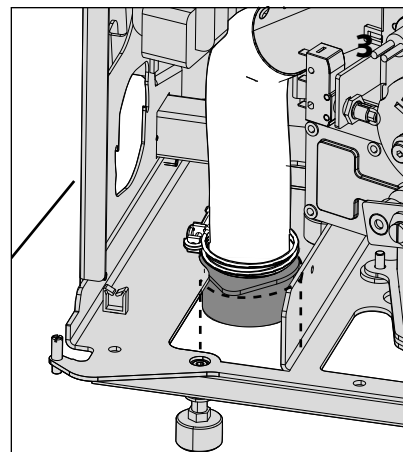


To install the air supply via the underside of the stove, you need to :

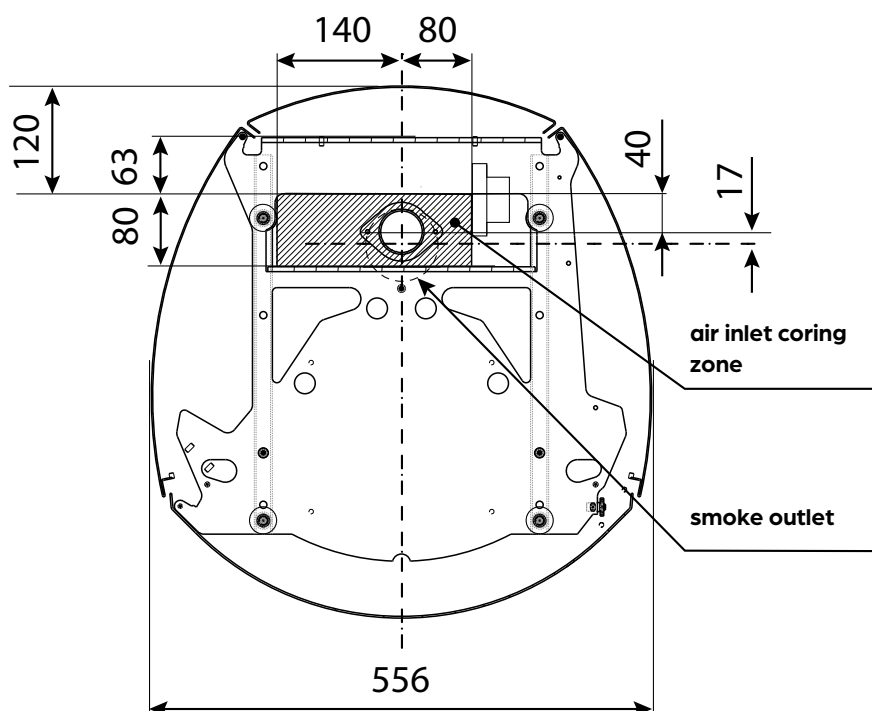
> unscrew the flange from the rear plate of the appliance [diagram 1].

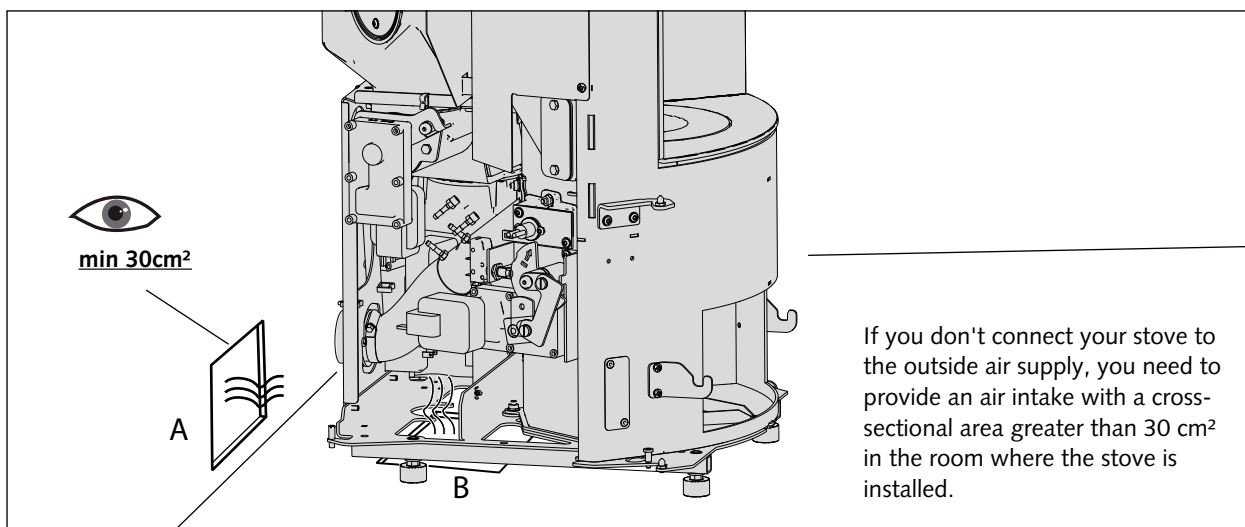


> feed the outside air intake hose into the area provided for this purpose [diagram 2-3]. This leaves the flange free for easy connection.



> connect the flange to the outside air using a flexible hose [diagram 3]. Please refer to the following diagram to identify the coring area for the lower air intake.

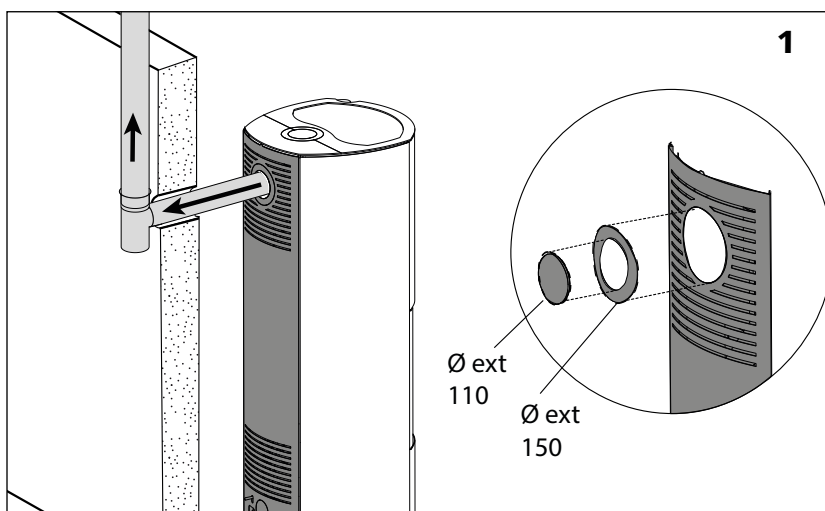




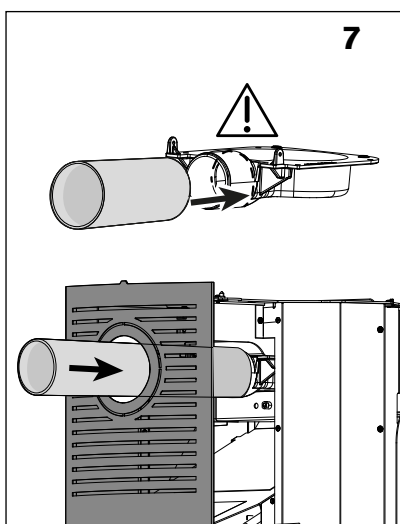
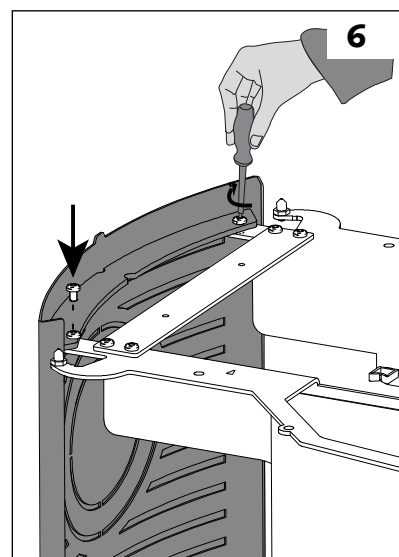
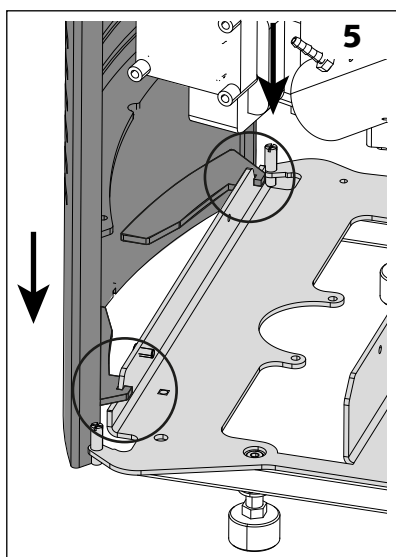
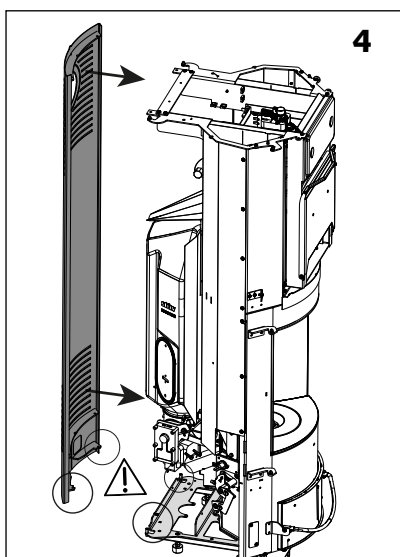
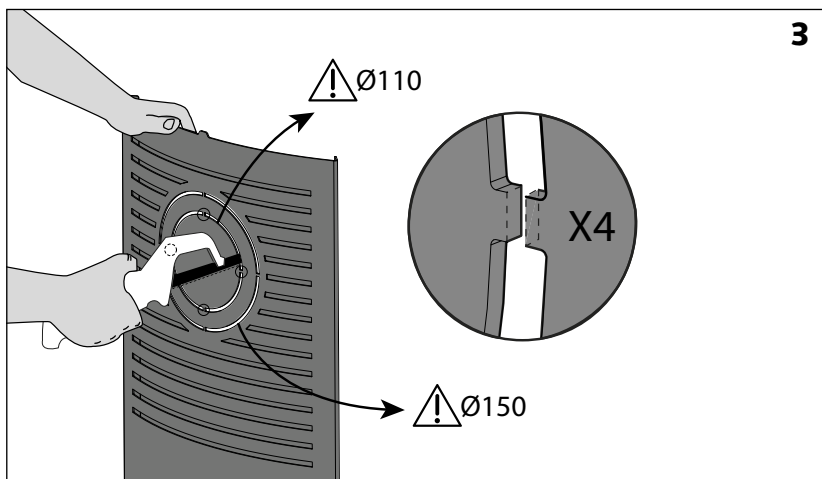
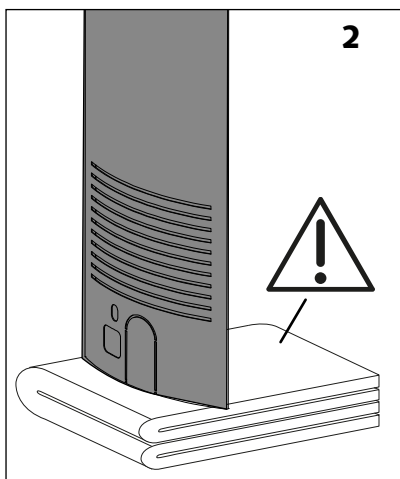
Connection to the smoke flue

Your Stûv P20-S offers 3 flue connection options. Please refer to the desired type of outlet in order to follow the instructions **⚠ Each type of connection implies different installation instructions. In particular, make sure you use the correct cut-outs!**

Connection to a rear smoke outlet in a single [A] or insulated flue [B]



To install your rear smoke outlet, cut one of the two cut-outs to match the diameter of the smoke outlet of your installation as closely as possible.

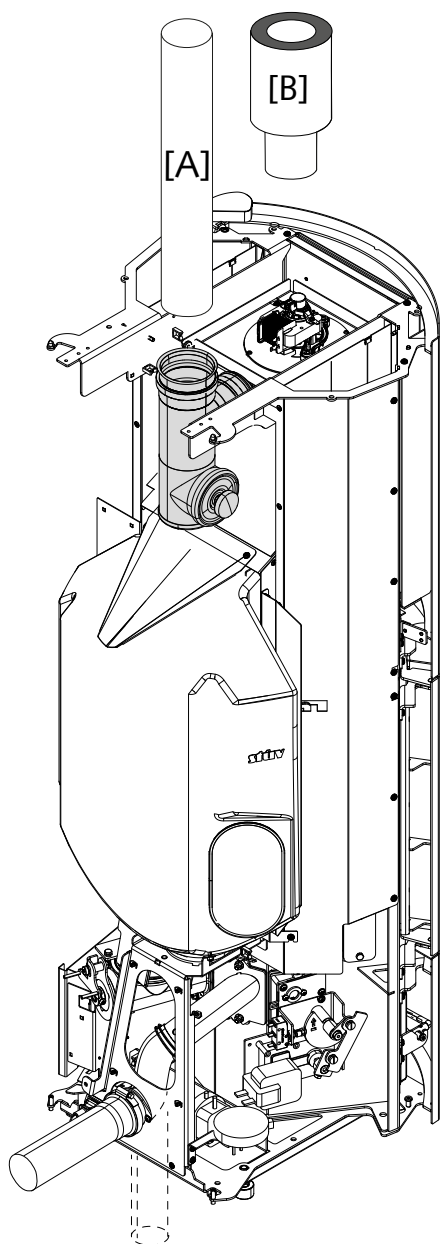


The flue is connected to the center back of the unit.

We recommend fitting a 90° Tee with a soot box to easily collect and evacuate any soot.

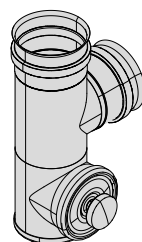
Caution!
The fan is 80mm outside diameter (male). Remember to order the appropriate connection accessories (female) when ordering connection accessories.

Top outlet connection for single-wall pipe [A] or insulated pipe [B].



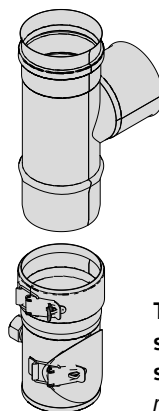
As a single or insulated top outlet, your stûv P20-S will be delivered with one of the two connection tees below.

option 1

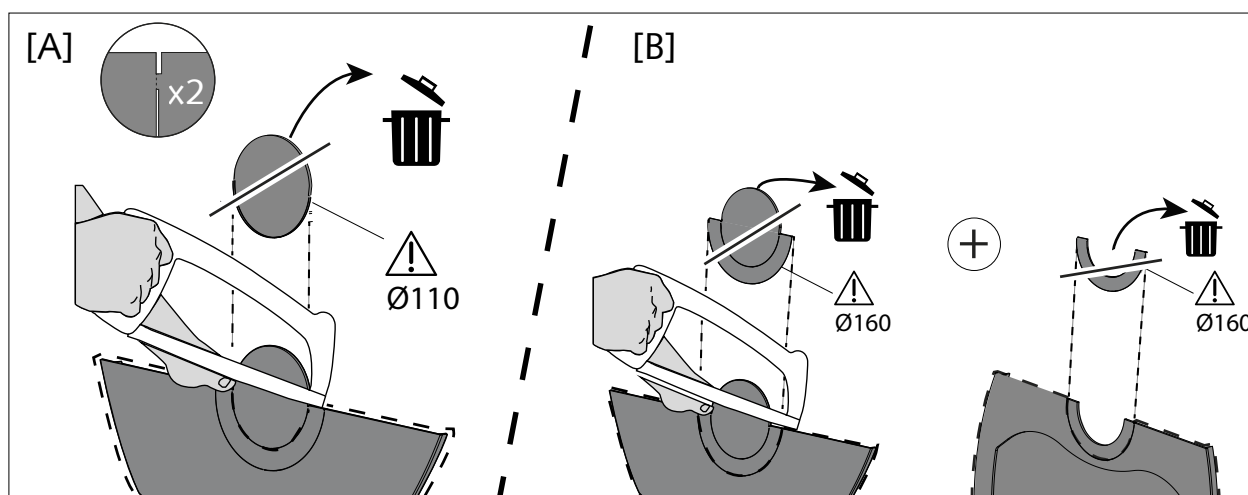


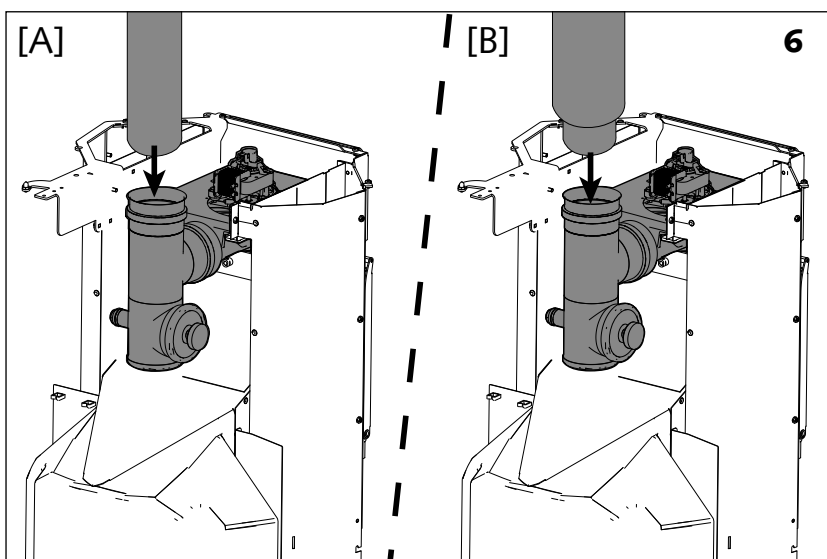
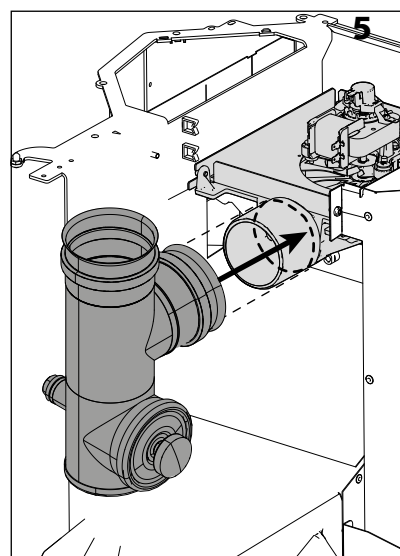
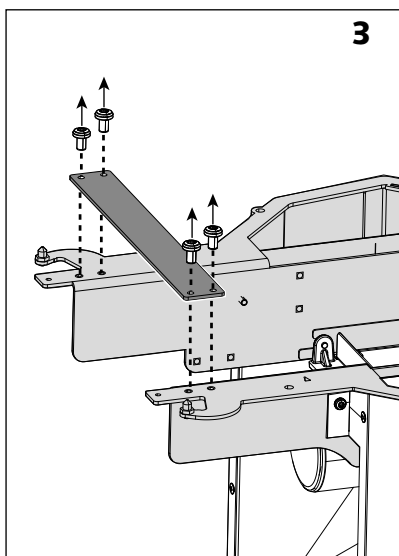
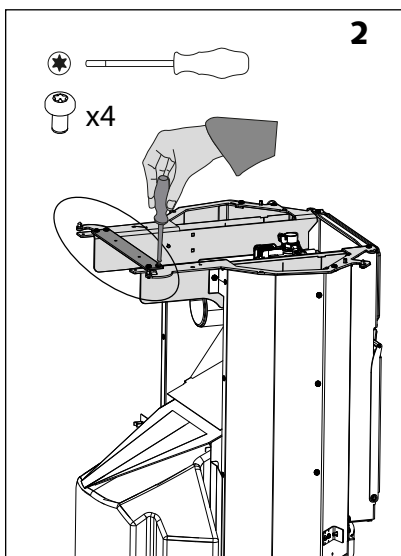
**Top connection Ø80
left hatch**
ref: 12016054

option 2



**Top connection Ø80
swivelling hatch with
soot suction plug**
ref: 12016052



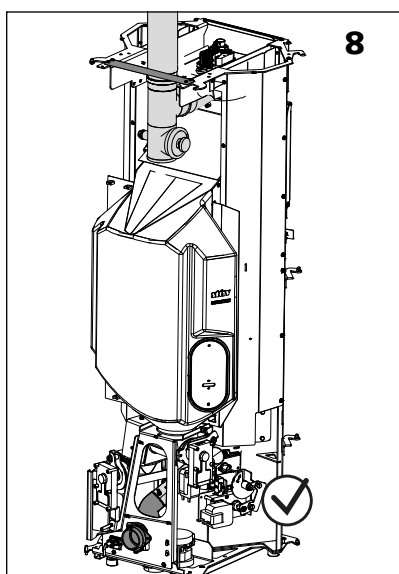
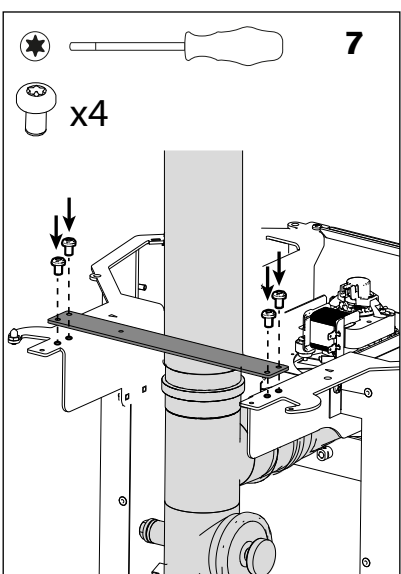


> To install your high flue outlet, make the cut-out corresponding to the diameter of your installation (a single cut-out on the rear shelf for the single flue outlet [A] / a cut-out on each shelf for the insulated flue outlet [B]).

Caution!

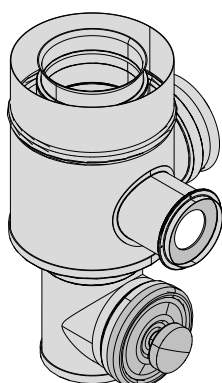
> The 90° Tee with soot box must be installed to collect and evacuate the soot [diagram 6].

> Make sure to replace the crosspiece after installation [diagram 7].

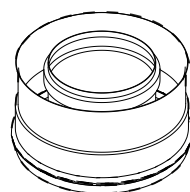


Connection using a concentric flue (optional)

option 1



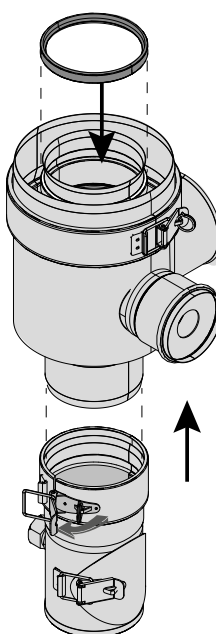
**Concentric top connection
Ø130 (left hatch)**
ref: 12016055



Modinox adaptator
(Ø130>Ø125)
ref: *pla-manchon fumée/air*
fm D80-noir

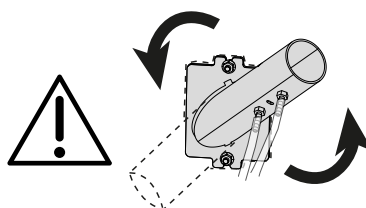
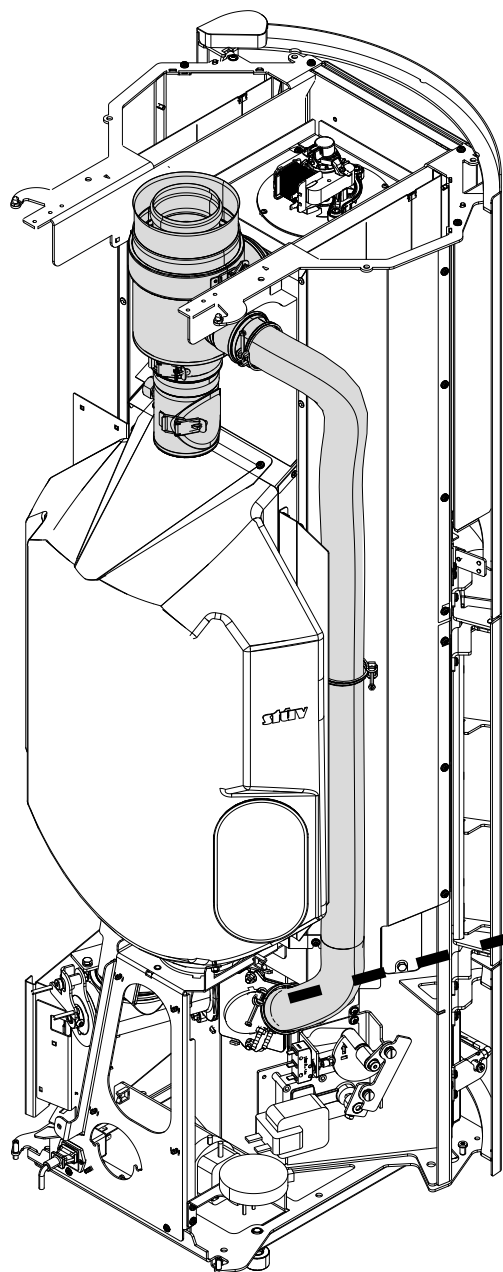
⚠ CAUTION!
The flow parameters must be modified for concentric installation. Carry out the settings described on page 49.

option 2

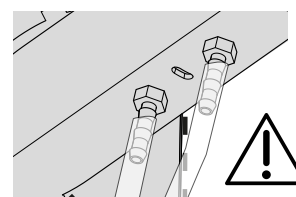


**Concentric top connection
Ø130 (swivelling hatch)**
ref: 12016053

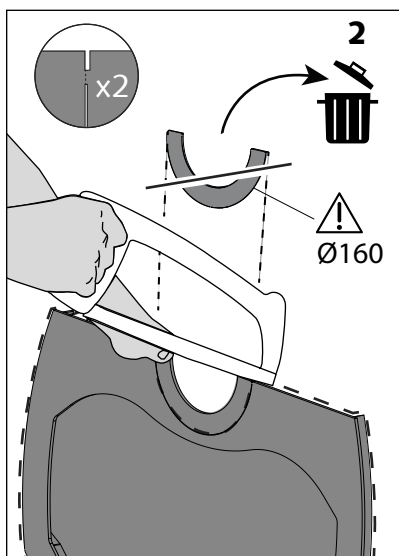
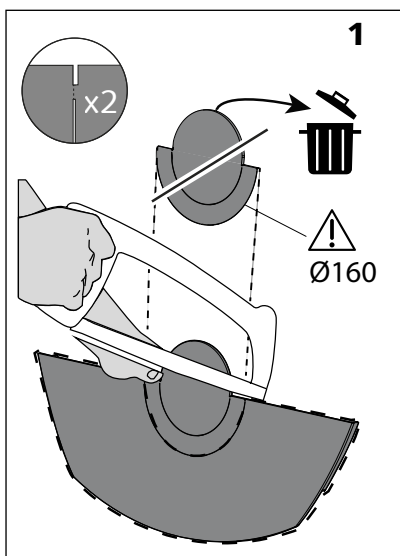
Flexible hose,
straight buselot
and pipe clamps
are included when
ordering option 1
or 2.



Reverse the combustion chamber inlet pipe [diagram 5] so that you can connect your aluminium hose to it.



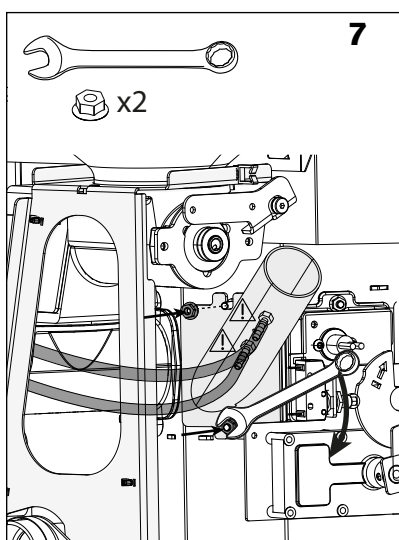
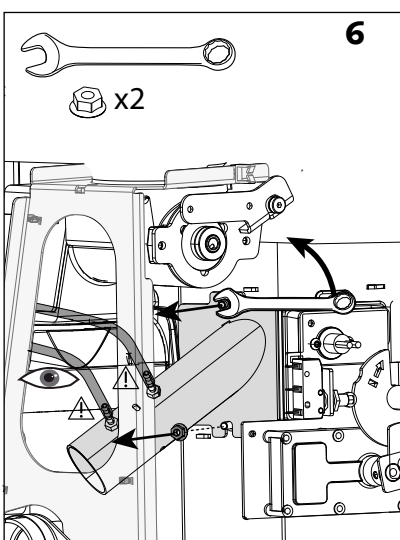
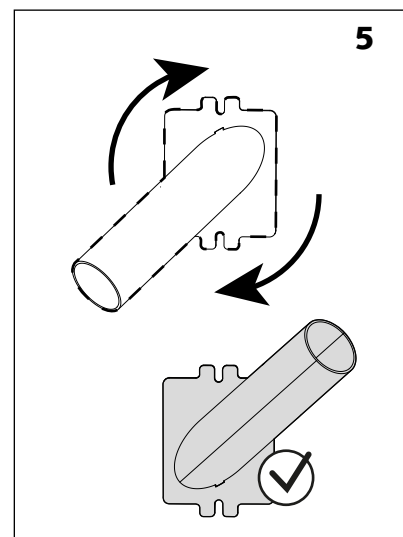
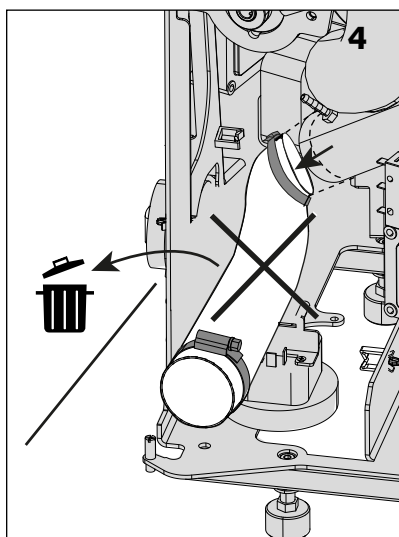
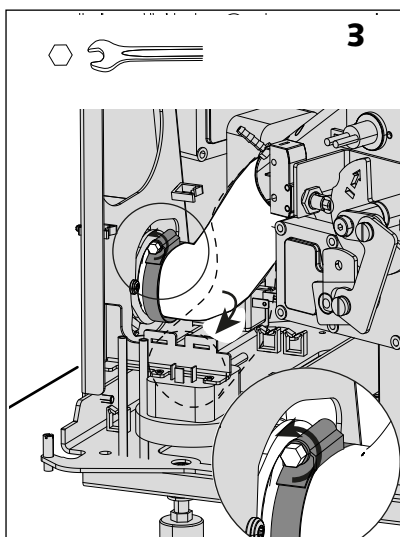
⚠ Keep the silicone tubes in position during the operation. Identify them if necessary!



> To install your concentric flue outlet, start by making the $\text{Ø}160\text{mm}$ cut-outs on each of the top shelves [diagrams 1&2].

> Undo the clamp and remove the rear air intake pipe [diagrams. 4&5].

> Loosen the 2 nuts on the base of the combustion chamber intake pipe [diagram 6]. Tilt the base 180° and reattach it to its support [diagrams 7&8].



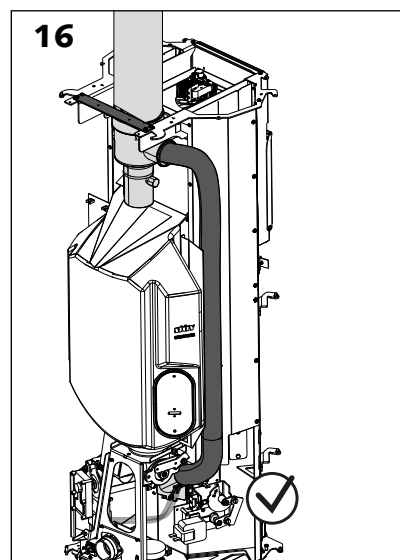
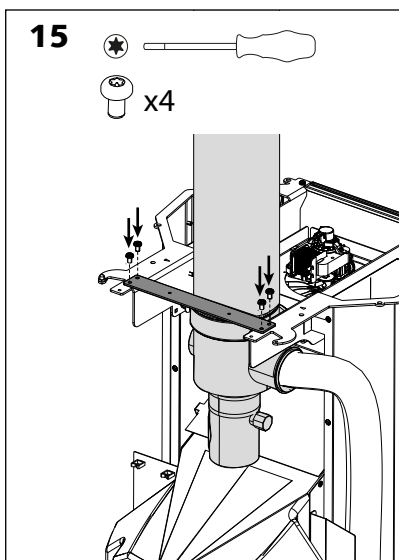
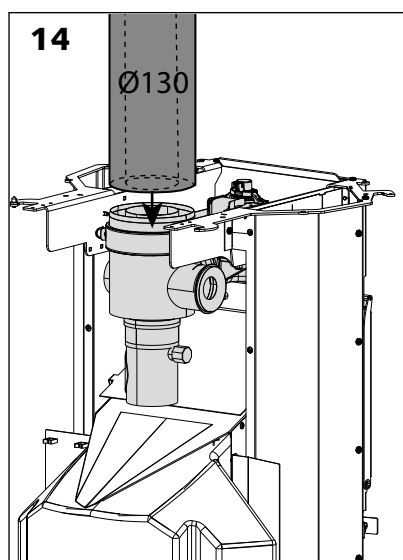
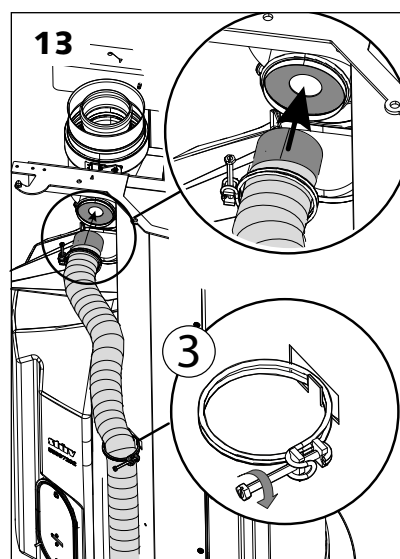
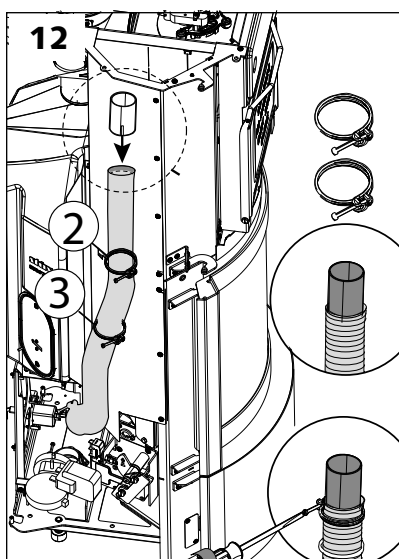
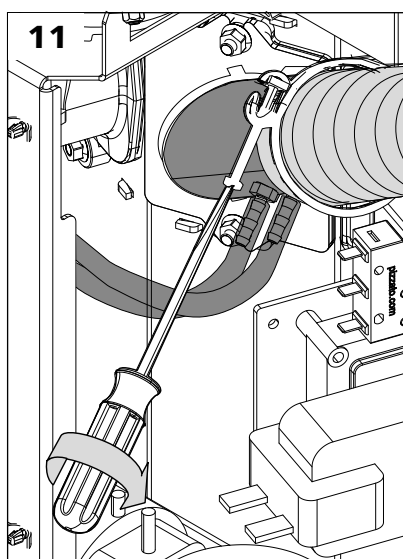
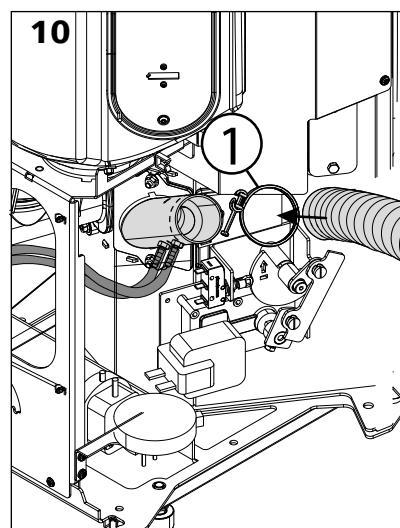
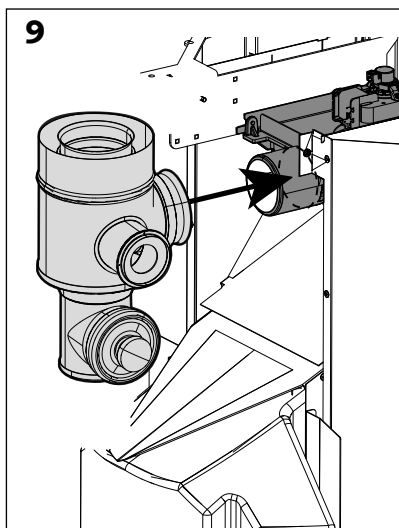
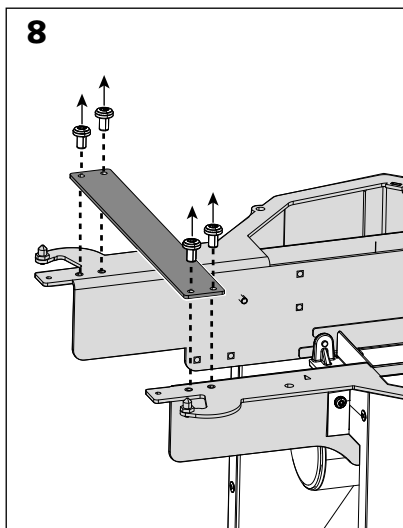
⚠ MAKE SURE to keep the pressure measurement hoses in position! If you have to disconnect them, mark them beforehand.

> Remove the reinforcing crosspiece to facilitate installation [diagram 9&10].

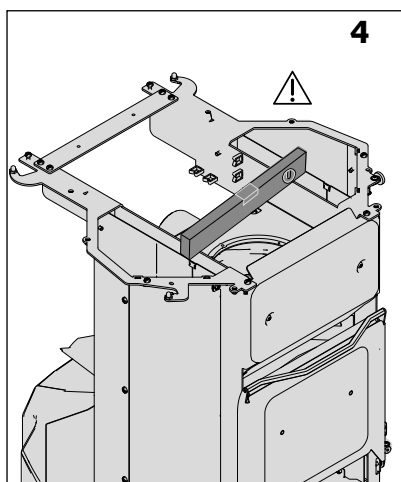
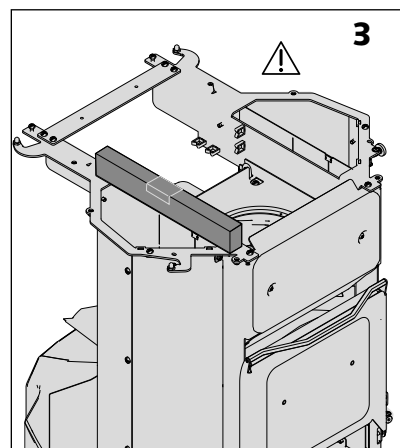
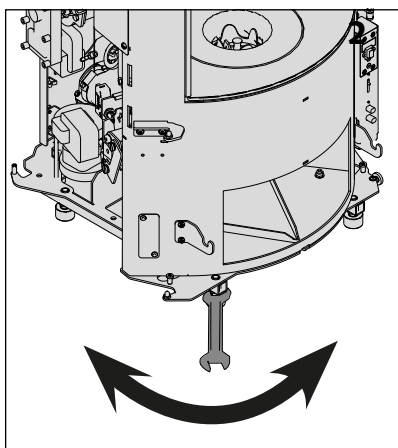
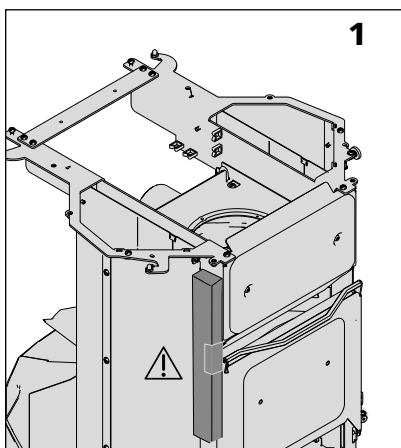
> Place the 90° concentric tee with soot box (mandatory!) to collect and evacuate soot [diagram 6].

> Connect the supplied flexible hose from the combustion chamber intake to the air intake of the concentric Tee [diagram 12].

> Put the crosspiece back into position once assembly is complete [diagram 13].



Once the connection phase is complete, continue with the installation of the facings.



⚠ Upgrade the P20-S to its final location! This is critical to the proper operation of the device.

This levelling will have an impact on the various connections [diagram 1 to 4].

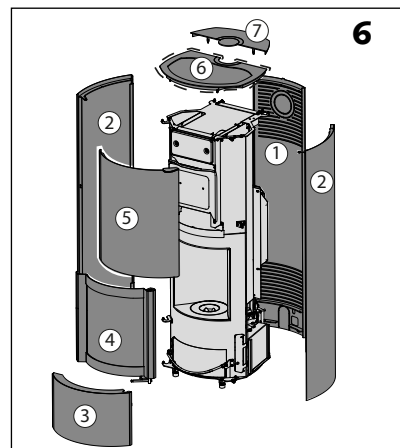
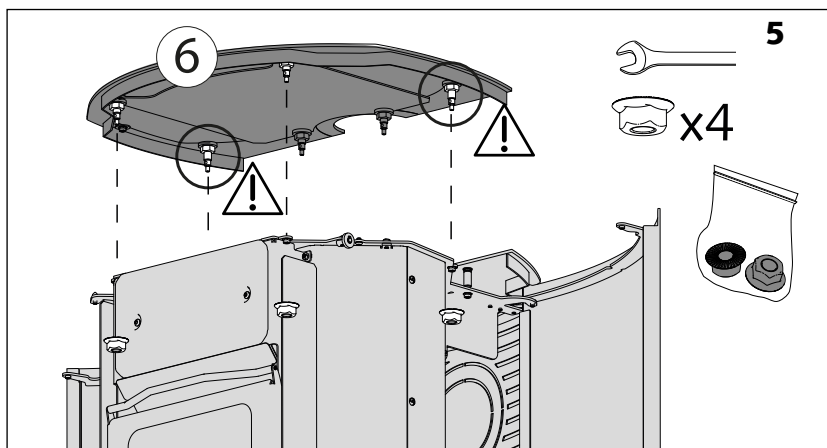
Do not descend below the minimum height between the floor and the bottom of the unit (screwed feet at maximum).

Once the connection phase has been completed, proceed with the stove cladding [diagram 6].

Please place the facings in the following order:

1. Rear panel
2. Side panels
3. Ash drawer door
4. Combustion chamber door
5. Loading hopper access door
6. Front top shelf*.
7. Rear top shelf

⚠ Don't forget to screw the two top shelves back on. [schema 5]!

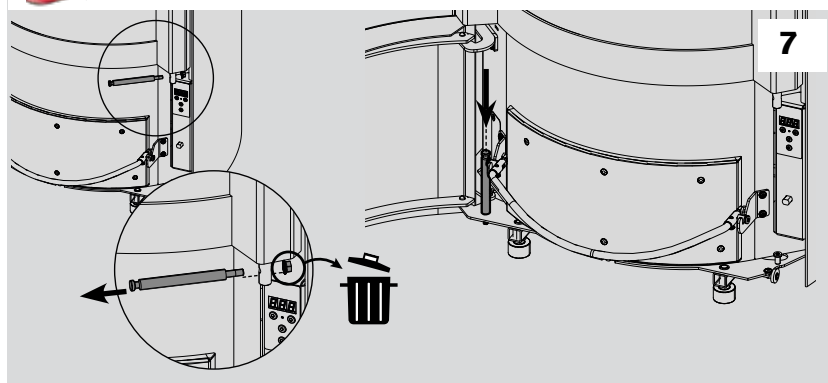


NOTE: Be sure to also screw on the two additional rear nuts supplied with the unit when fitting the front top shelf [diagram 5]!

⚠ For the Swiss market, dismantle the door handle and use it as a cold hand. There's a small hole in the frame for easy storage [diagram 7].

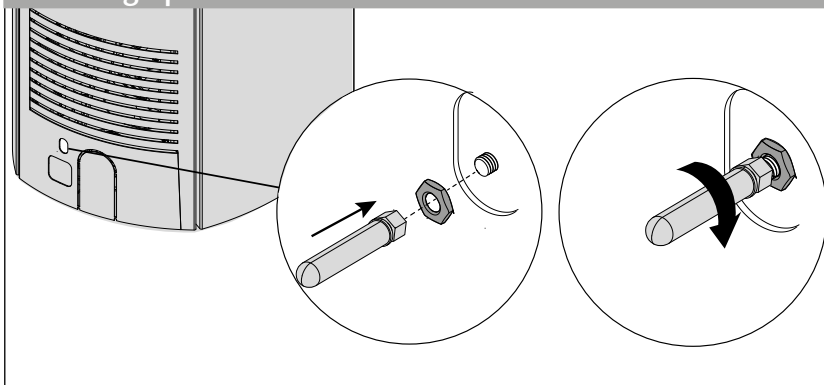


MANDATORY INSTALLATION INSTRUCTIONS (SWITZERLAND ONLY)



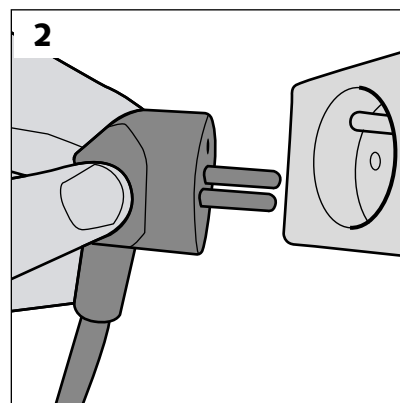
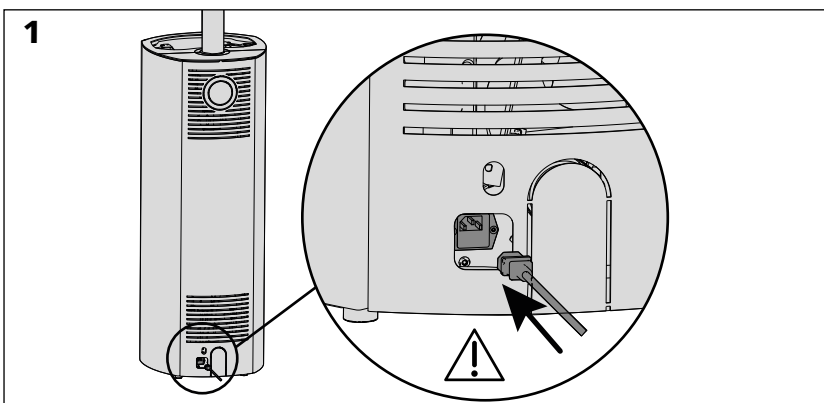
STARTING UP

Powering up the Stûv P20-S

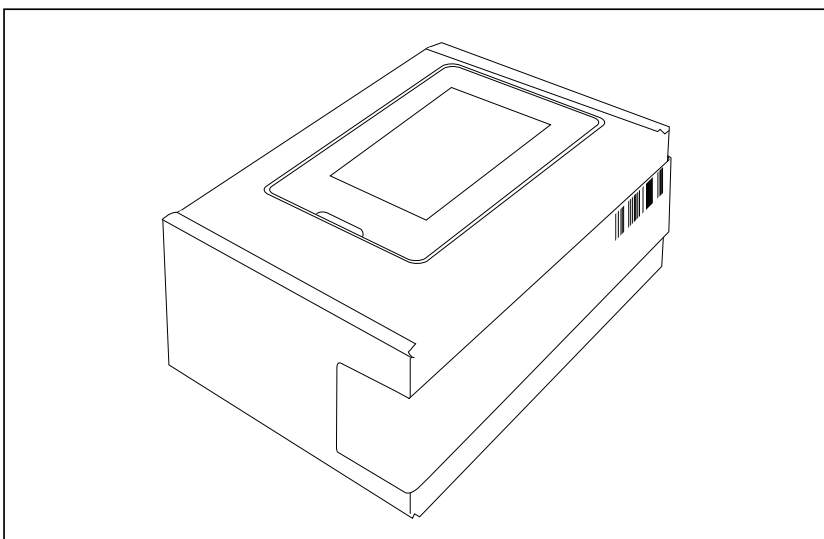


> Plug in the Stûv P20-S.

Make sure you are in the full stop position!



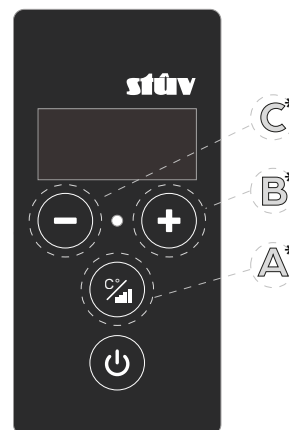
Remote control connection and pairing *(optional)*



Please refer to the «**Quick start guide: remote control**» supplied in the remote control box. It will guide you through the various steps involved in pairing the remote control with your device.

P20-S button functions by pressure duration

Buttons	Duration of support	Fonction	Expected condition
A 	8 sec (long presses)	Configuration mode on/off	Simplified Control Display screen flashes
In configuration mode (SCD display flashes)			
B 	2 sec (short presses)	Switching between Wi-Fi and wired (Ethernet) operation	The LED displays the network status (see LED status table below).
	8 sec (long presses)	Switches Wi-Fi module to access point (identified as Wi-Fi module, connection can be established)	LED flashes orange
C 	2 sec (short presses)	Opens a 1-minute remote control connection window	LED flashes purple
	8 sec (long presses)	Reset remote control connection + open 1-minute connection window	



Simplified Control Display (SCD)

SCD LEDs indicate your connection status

Color	Status	Meaning	Resolutions
Green	Fixed	Connected to home Wi-Fi network	/
	Flashing	Home Wi-Fi network configured. No network access	Restart the home network configuration by checking its parameters*.
Blue	Fixed	Connected to wired home network (Ethernet)	/
	Flashing	Home wired network configured. No network access	Check that the Ethernet cable is properly connected to the router*.
Orange	Flashing	Device Wi-Fi in access point mode	/
Purple	Flashing	Remote control connection window open (1minute)	/
Red	Fixed	General system error on the communication board	When the device is switched off, disconnect it from the mains and reconnect it after 15 seconds.
	Flashing	Connection error between communication board and device control board	Check that the communication cable is correctly connected between the 2 boards*.
Off		Communication card not powered or software error	Check device power supply Check communication board power supply Check cable connection between communication board and control board

* Please refer to the networking procedure on the next page.

Why connect your P20-S to Wi-Fi?

Connecting your device to the network not only enables remote control, but also allows you to benefit from Stûv's **remote maintenance service, diagnostics on the status of your device and automatic software updates**.

You have two options for installing the communication module: Wi-Fi connection and wired connection via an Ethernet cable to the router (possibly via PLC modules for data transmission over a wired electrical network).

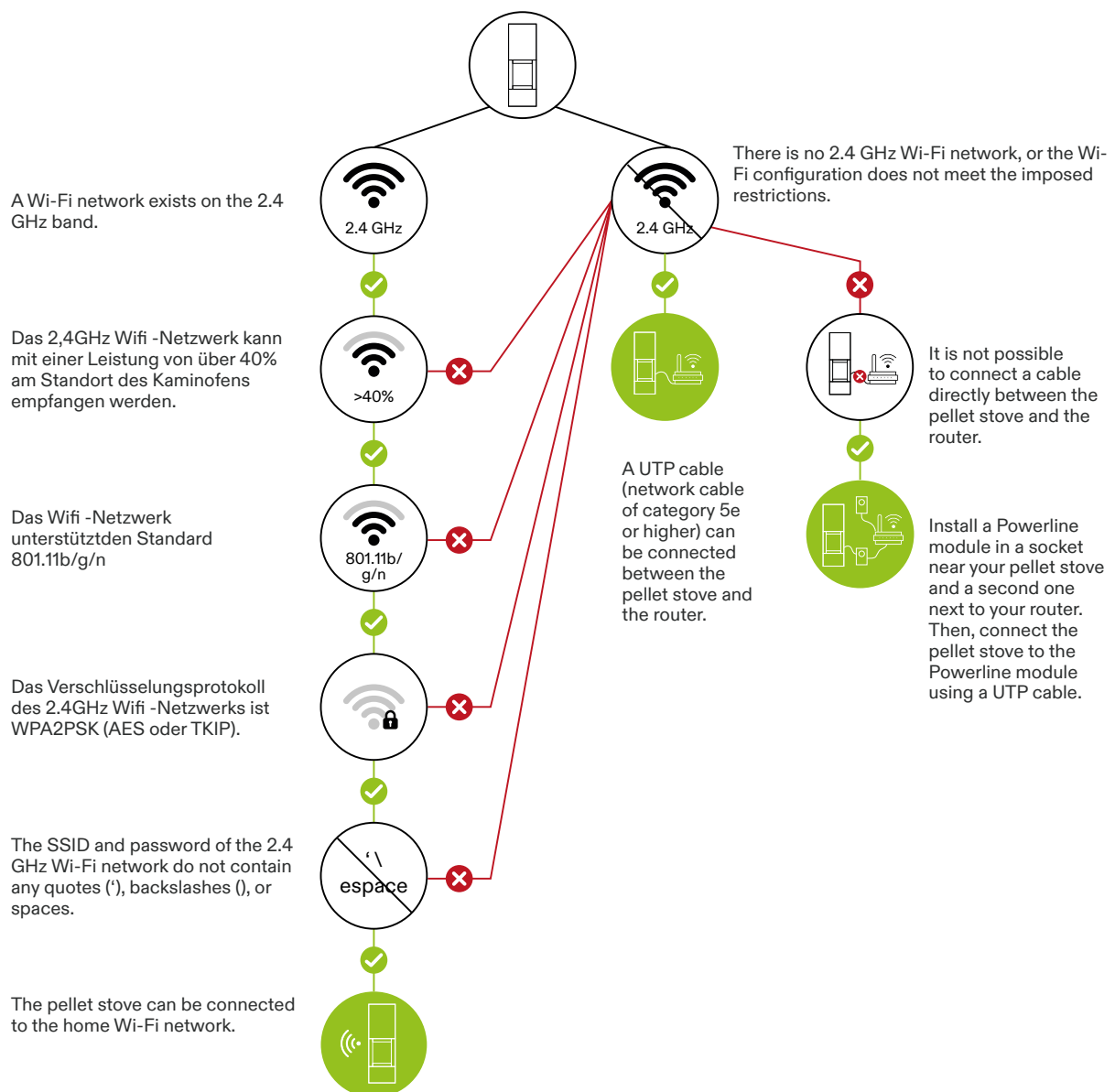
This choice can be made by taking a PC and downloading an application such as **Netspot Free Edition** (Windows or Mac), **Vistumbler** (Windows) or **Wi-FiInfoView** (Windows), which will enable you to quickly assess the characteristics of your home Wi-Fi network.

⚠ In all cases, the home network router must comply with the following requirements:

- > IP address allocation on the network must be handled automatically by DHCP.
- > Ports 1883 and 443 must be open to the outside world.

The tutorial for connecting the device to the home network is directly integrated into the application.

Once installed on your smartphone, it will guide you through the steps involved in connecting your device. To install the app, please refer to the next point.

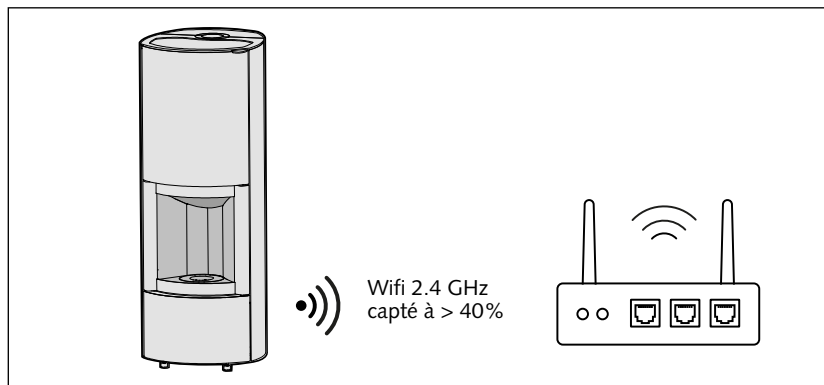


Option 1: Wi-Fi connection



To connect the Stûv P20-S to the home Wi-Fi network, the following conditions must be met:

1. **A home Wi-Fi network on the 2.4 GHz frequency band** (the 5GHz frequency band is not supported);
2. **Network configuration preferably in the 20 MHz bandwidth** (the 40MHz bandwidth is also supported, although less stable)
3. **An uncongested channel.** The communication card covers all 14 available Wi-Fi channels. An environment with too many Wi-Fi networks can lead to connection problems (instability, interference, etc.). **Configure your router to use a lightly congested channel.**



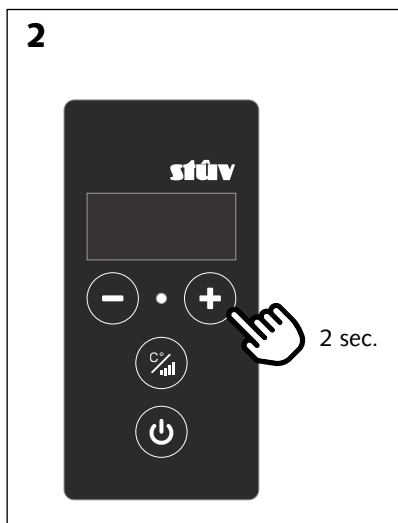
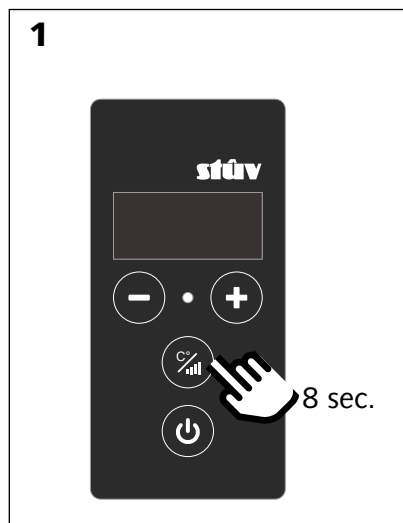
4. **A home Wi-Fi network supporting 801.11b/g/n standards.**
5. **Different SSIDs (= network names) for the 2.4 GHz and 5 GHz bands.**
 ⚠ Some home Wi-Fi systems use a technology that emits a single SSID (Wi-Fi network name) for both 2.4 GHz and 5 GHz networks. This technology regularly causes problems and does not always allow the P20-S to be connected to the home network. In this case, we strongly recommend configuring an SSID for the network transmitting on the 2.4 GHz band, and a different SSID for the one transmitting on the 5 GHz band;
 ⚠ The SSID can be visible or hidden;
6. **A Wi-Fi network encryption protocol is either WPA2-PSK (AES or TKIP), or a combination of WPA/WPA2.** WPA-Enterprise is not supported.
7. **A Wi-Fi signal strength of at least 40%** where the device is located.
8. Neither the SSID (Wi-Fi network name) nor the password can contain the quote character (') or the backslash (\). Other special characters such as "#!&\$!?,./:~{}()*\$[]" are supported.



If you are not familiar with the above parameters, or if they are not (or cannot be made to be) compliant with the prerequisites, it is imperative to configure the system in wired mode!

FOYER INSTALLATION ON WI-FI NETWORK

It is necessary to install the stove on the end-user's Wi-Fi* network so that he can control it with a connected device.

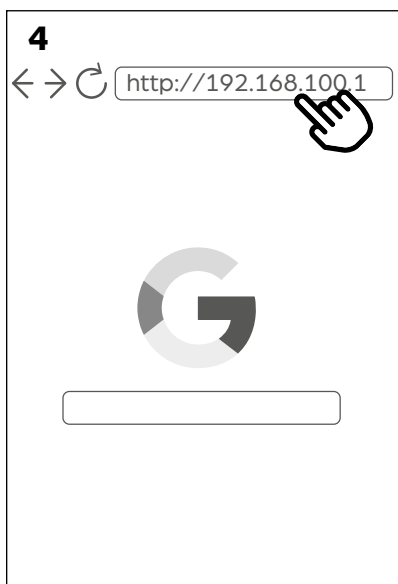


> Press and hold (min. 8 seconds) the button  [diagram 1].

> Then press and hold the button for at least 8 seconds.  [diagram 2]. The LED should now flash orange, indicating that the device is in "access point" mode and ready to be connected to a Wi-Fi network.

> On a connected device (smartphone, tablet or PC), connect to the Wi-Fi network named "**Stuv_P10 S00XXXX**" [diagram 3]. No password is required. This network is not secure.

> On the same connected device, open a web page and type the following address in the URL bar: **http://192.168.100.1** [diagram 4].

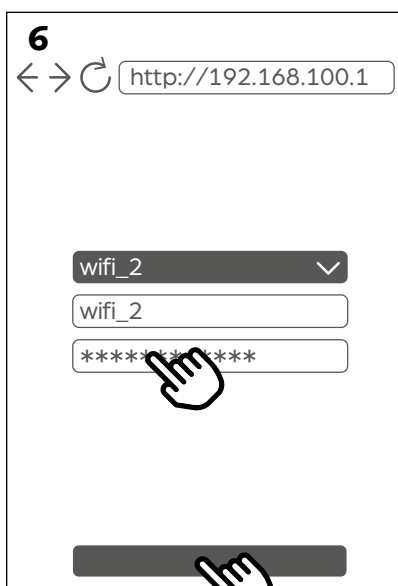
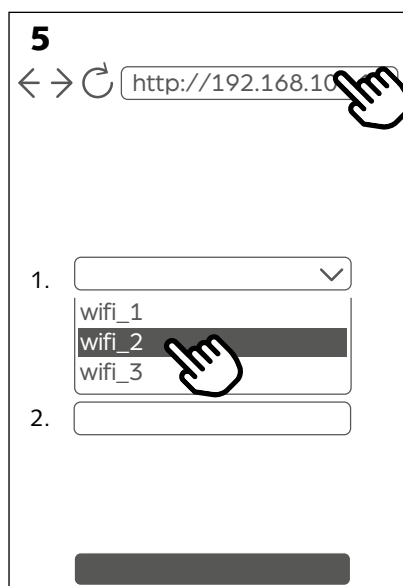


Note: Be careful not to confuse the search bar of a search engine with the URL address bar.

> On the resulting page, scroll down the first pane to select the wireless network on which the device is to be installed [Figure 5.1].

> If the desired wireless network is hidden, you can type the device name directly to search for it [diagram 5.2].

> Enter the password for the selected wireless network, then press "configure and restart" [diagram 6].



Warning: make sure you have the correct password for the end-user's wireless network.  **Some devices switch directly to uppercase! Special characters and punctuation marks in the Wi-Fi network name (SSID) can also cause connection problems.**

> The household box is then installed on the home network.

Please note: Connection may take several minutes.



With a device connected, check that the device is working correctly by installing the application and performing a connection test.

If the device has been successfully installed on the home network, an error page is displayed in the Internet browser, confirming that the home is no longer an access point and has been successfully connected to the network [schema 7].

> The LED should then turn a steady green, indicating that the operation has been successful.

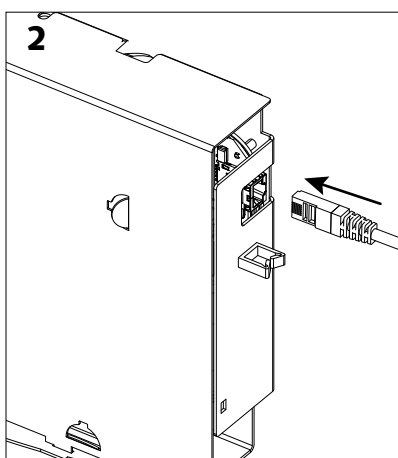
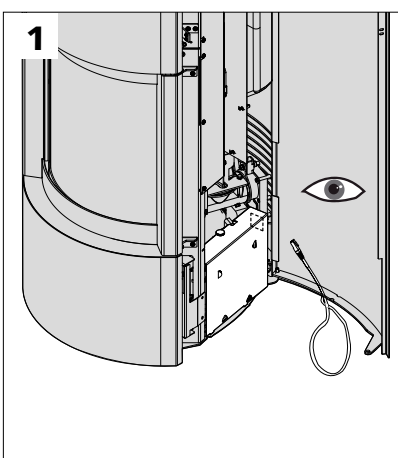
Note: Connection may take several minutes.



A flashing green light indicates that the device has been unable to connect to Wi-Fi. The error is either due to the password, or to one of the communication parameters (see Summary p.45).

* Stüv cannot be held responsible for Wi-Fi network compatibility or stability.

Option 2 : Wired connection

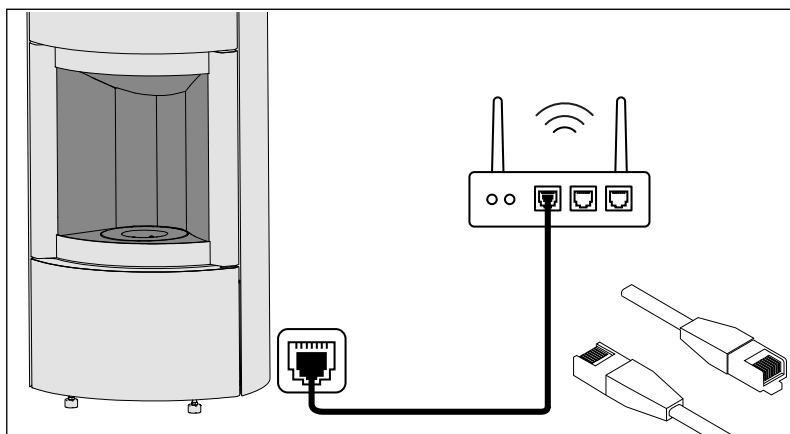


The Ethernet port on your device is accessed through the opening in the right-hand side panel [Figure 1]. Plug the first end of your cable into the back of the network card case [Figure 2].

Then choose one of the following two options to complete the connection.

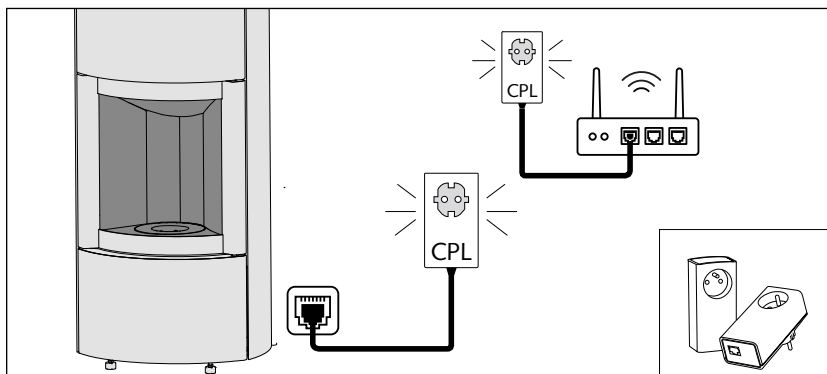
There are two ways of connecting the P20-S to a wired home network (Ethernet):

1. Direct or indirect (via the home network) cable connection to the router;



Setting up the device on the home WiFi network *(continued)*

2. Connection to the router via PLC (powerline);



If the router is too far from the stove, a system such as a PLC can be a simple solution for installing the cable (the purchase price of such an option varies between €50 and €75).

Setting up the device on the home WiFi network

The Stûv application lets you configure and control your appliance.

> Download and install the application free of charge by searching for "Stûv remote" in the Play Store or App store.

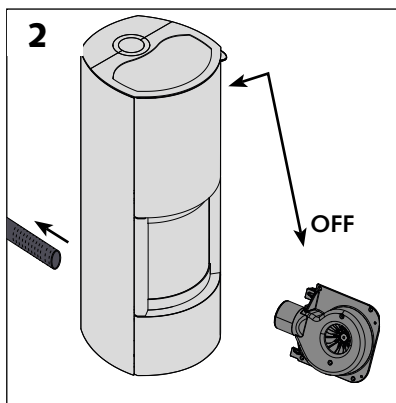
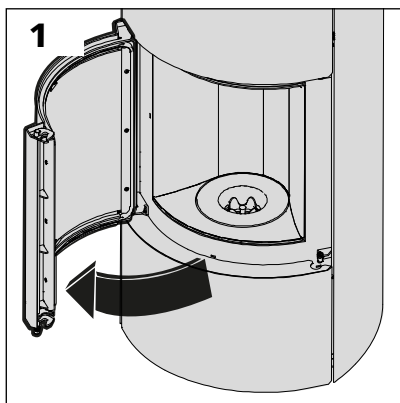


> When the application is launched, a message indicates that no heater is connected. Press "Connect my device" to start the connection procedure.

> Follow the rest of the connection steps on the app.

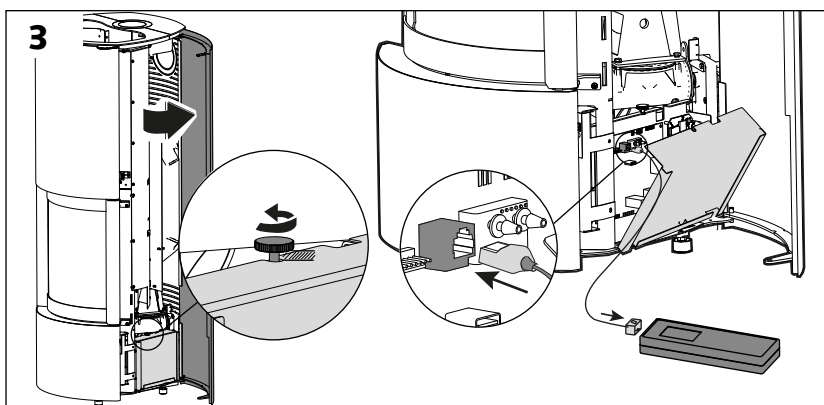


Flux calibration (mandatory after each transport)



⚠ The diagnostics and wired settings display specific to Stûv is needed for the next step. **Warning!** Calibration must be carried out when the device is switched off with the fan shut down, with any external air inlet disconnected. The door also needs to be open. [diagrams 1 & 2] !

> Connect the display to the appropriate socket. You'll find it on the bottom right-hand side of the unit, by opening the cover [diagram 3].



> Enter the "technical parameters" menu by simultaneously pressing and holding the and [diagram 4].

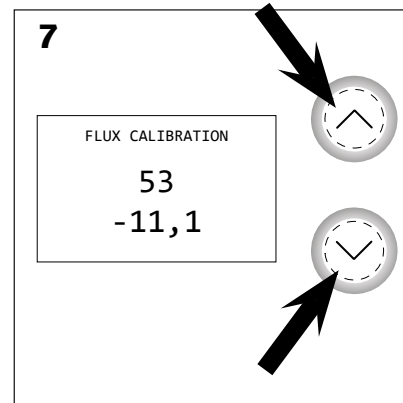
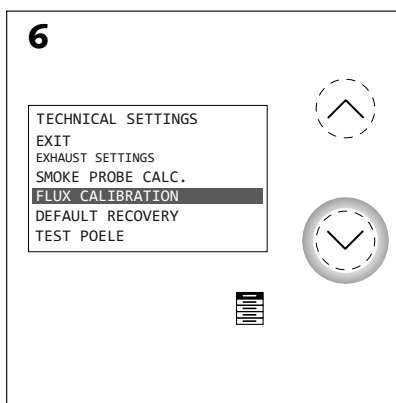
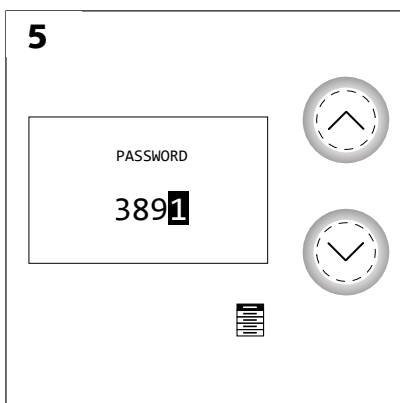
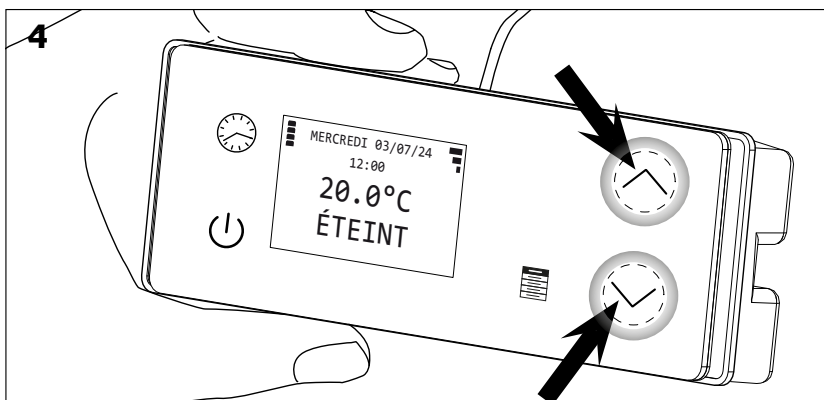
> Use code **3891** - Enter the required number using the keys and [diagram 5]:

- Move on to the next digit by briefly pressing
- Confirm the combination by pressing and holding

> Go into the "Calibration flux" menu using the button [diagram 6].

If the values shown are: 100 and 0.0, the flow sensor is calibrated correctly [diagram 3]. If not, you will need to recalibrate; to do this:

> On the calibration flux screen, press and at the same time [diagram 7].



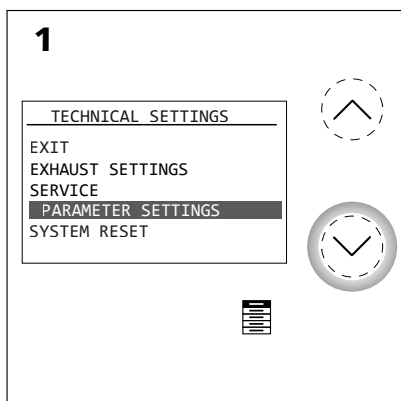
> The device will then reconfigure the flow sensor. Wait for the remote control to display the home screen. Once it does, the process is complete.

> Connect the external air inlet.

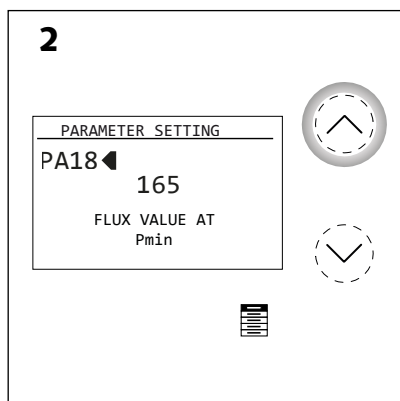
Change in flux calibration settings (mandatory for concentric flue installations)

Your Stûv P20-S is factory-set for a single flue outlet, in compliance with standard EN-13384. If the P20-S is connected to a concentric flue, the minimum and maximum flow parameters of your appliance must be modified. Make the settings as described below:

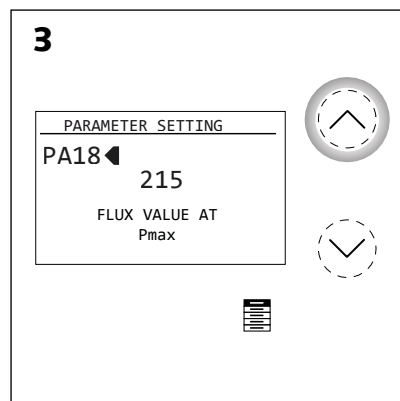
Air control	Single wall pipe	Concentric flue
Flow at Pmin (PA18)	143	165
Flow at Pmax (PA19)	190	215



In the 'technical parameters' menu of the wired diagnostics and settings display (see previous page), select 'parameters menu' using the  button [diagram 1].



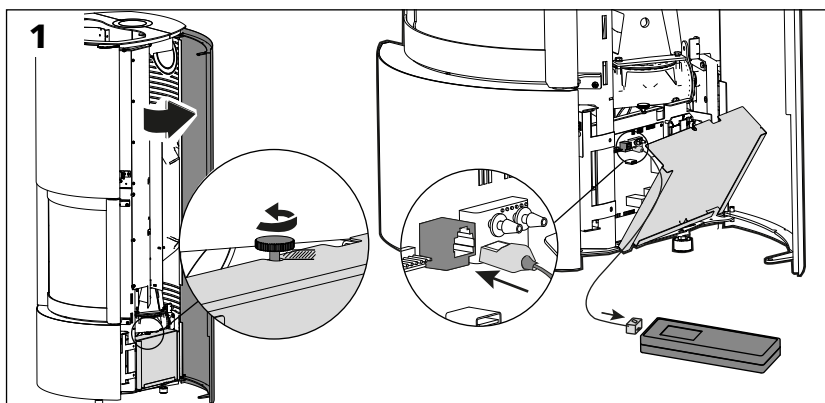
Use the button  to select parameter 18 (PA18) for Pmin. Confirm your selection by pressing the  button. Increase its value from 143 to 165 using the  button. Confirm this value by pressing the  button.



Then use the button  to select the next parameter (PA19) relating to Pmax. Confirm your selection by pressing the  button. Increase the value from 165 to 215 using the  button. Then confirm this value by pressing the button .

Use  to quickly check that the new values have been saved.

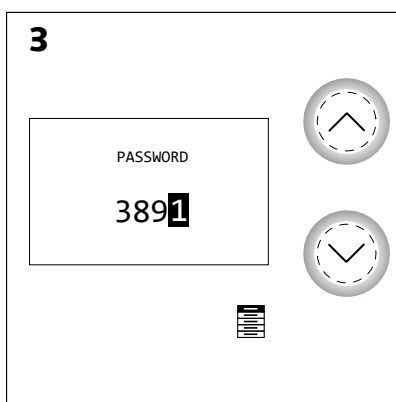
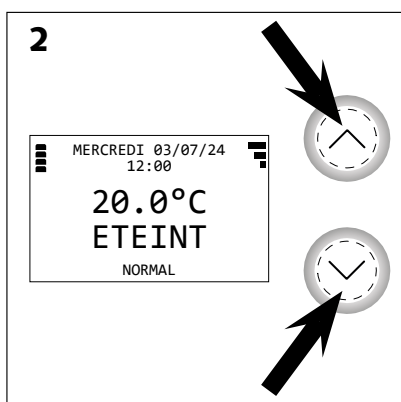
Exit finally the menu by holding the  button.



The Stûv-specific wired diagnostic and adjustment display is required for this step.

> Connect the display to the appropriate socket. You'll find it on the lower right-hand side of the unit, by opening the cover [diagram 1].

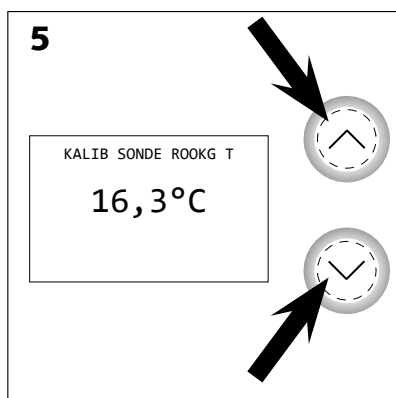
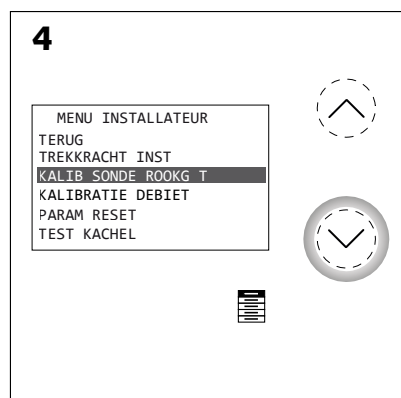
> Enter the "technical parameters" menu by simultaneously pressing and holding the  and  [diagram 2].



> Use code **3891** - Enter the required number using the keys  and .
- Move on to the next digit by briefly pressing  -
Confirm the combination by pressing and holding .

> Use the key to enter the "Flow calibration" menu.  [diagram 3].

⚠ To do this, the device must have been switched off for at least 2 hours!

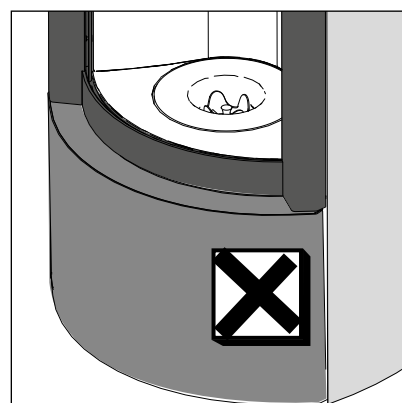
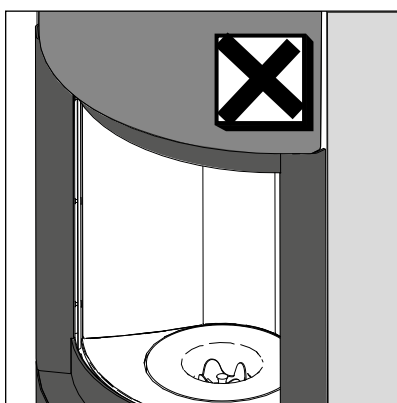
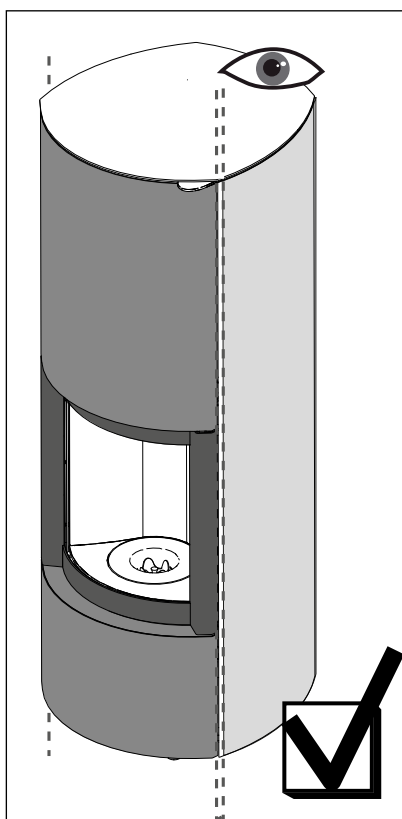


> In the smoke calibration screen, simultaneously press simultaneously  with  [diagram 5].

>The device will then reconfigure the temperature sensor.

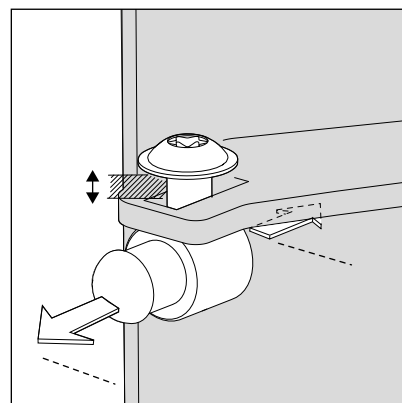
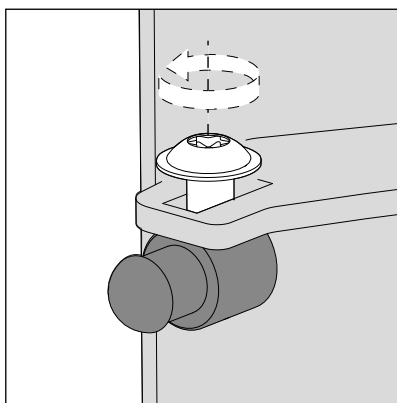
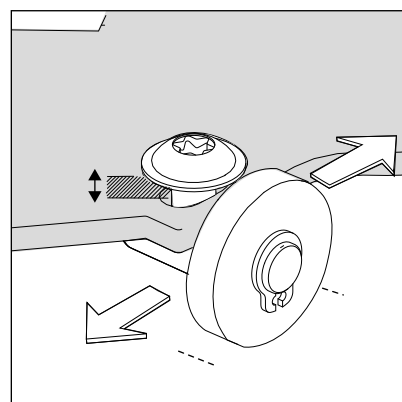
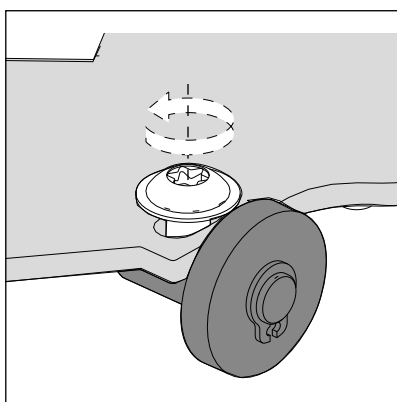
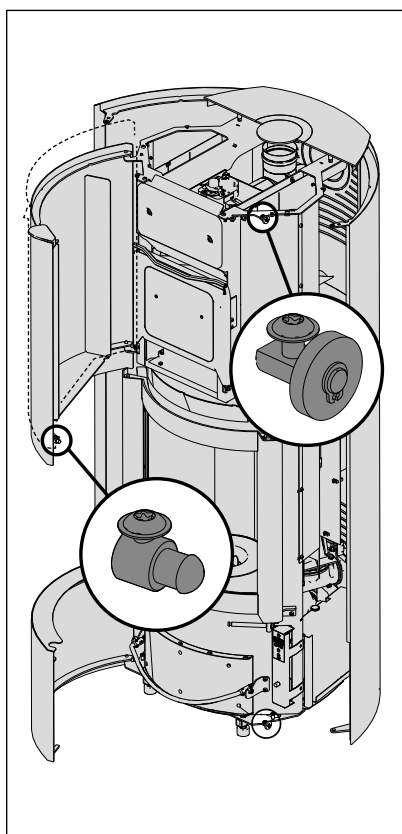
Wait for the remote control to display the welcome screen. When it does, the operation is complete.

Facing alignment



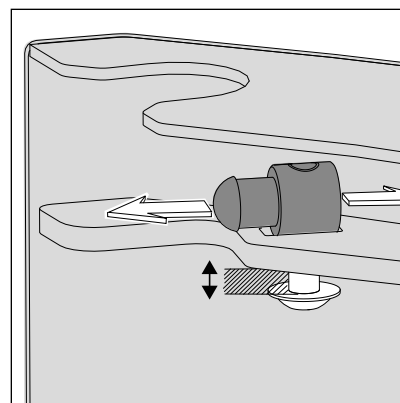
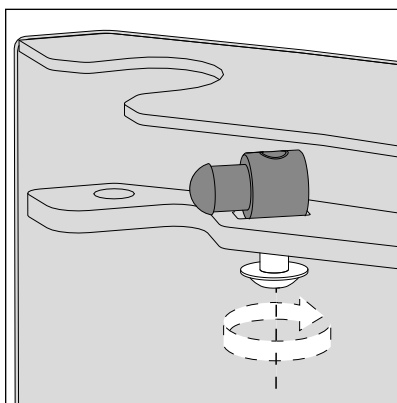
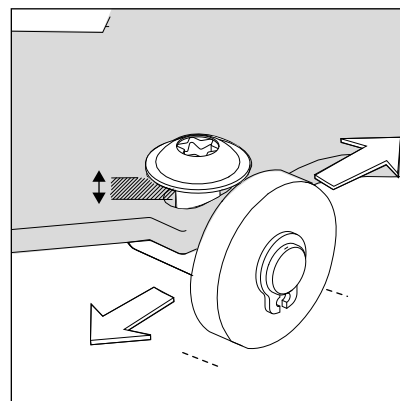
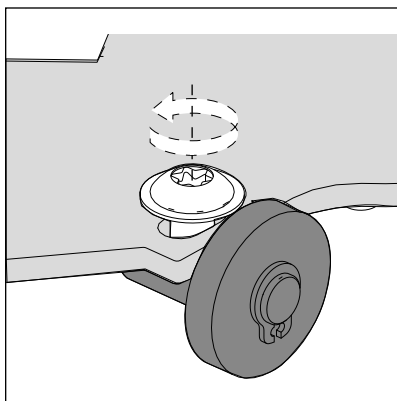
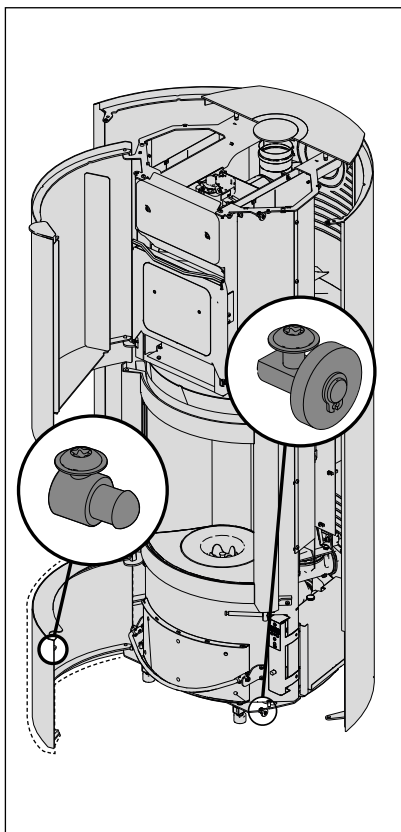
The P20-S is factory-set. You can, however, intervene **if you notice that a mismatch between the faces may have occurred** during transport or handling of the device.

Adjustment points for levelling loading hatch access door (if required)



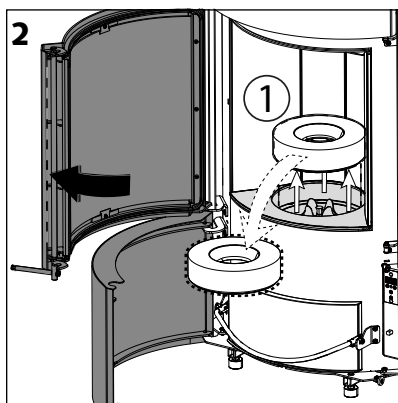
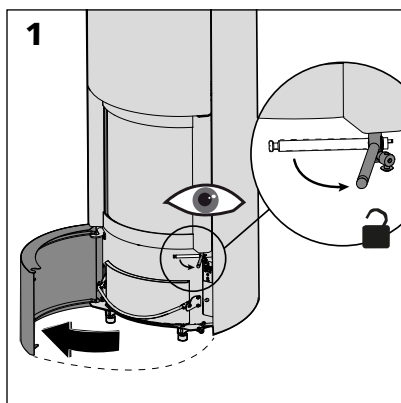
 Be sure to retighten the screws once the correct setting has been made.

Adjustment points for gate levelling (if required)



⚠ Be sure to retighten the screws once the correct setting has been made.

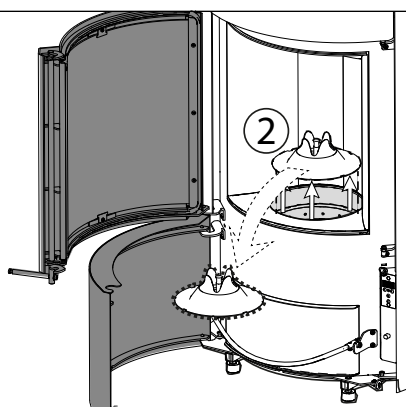
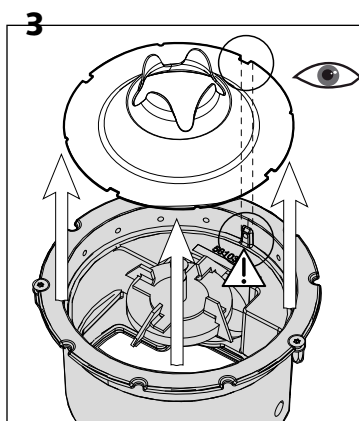
Inspection of ash screen



NOTE:

Each stove is factory-tested. The presence of pellets in the screws is normal. It is important to visually check the grates before lighting.

⚠ Pay particular attention to the orientation of the vermiculite ring and the flame modeller [diagrams 2&3]!

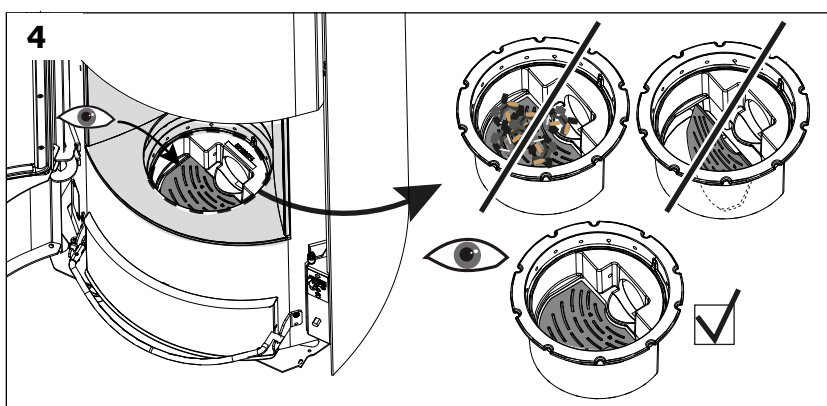


> Open the ash pan access door, then the combustion chamber door [diagram 1].

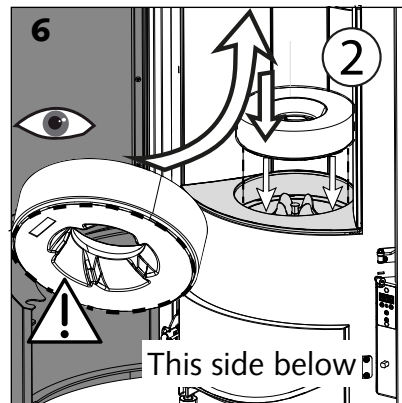
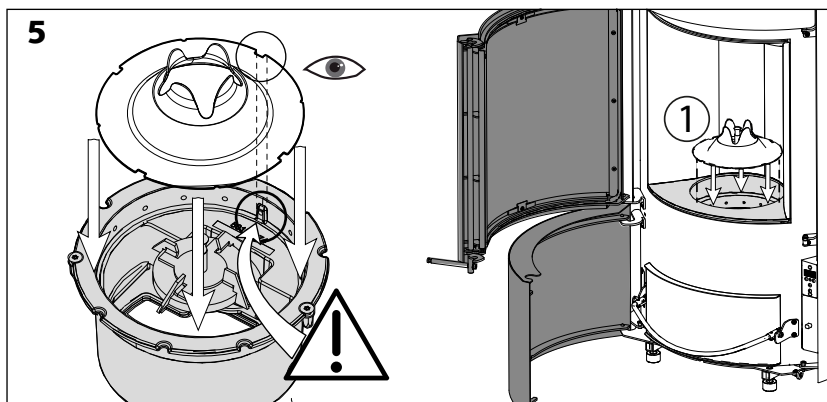
> Remove the vermiculite ring [diagram 2].

> Remove the flame modeller [diagram 3].

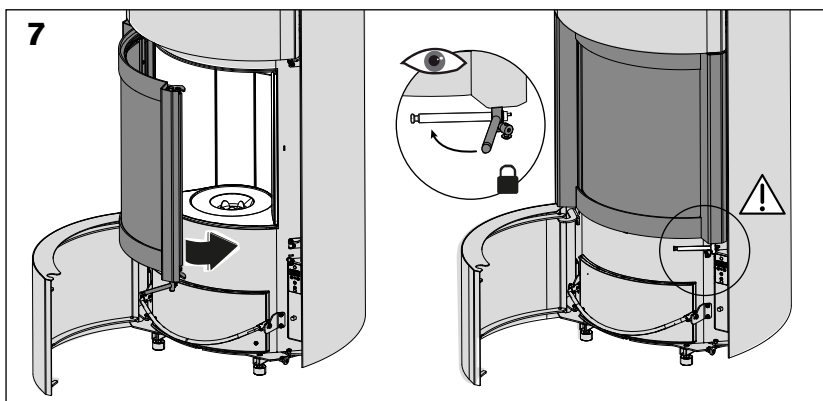
> Check that the grate is horizontal and clean [diagram 4]. Clean if necessary.



> Replace the flame modeller and vermiculite in position (pay attention to the direction of placement!) [diagrams 5&6].

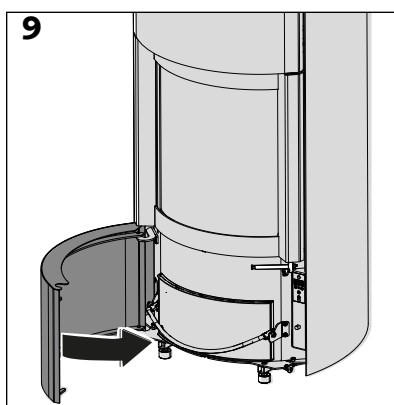
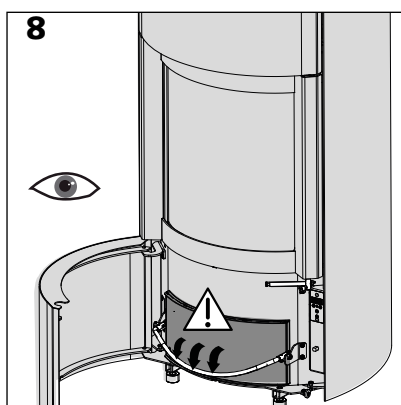


Checks prior to switching on the unit for the first time (continued)

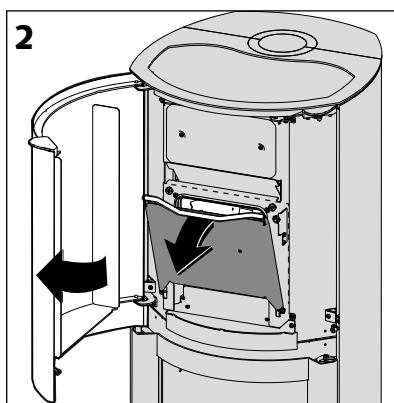
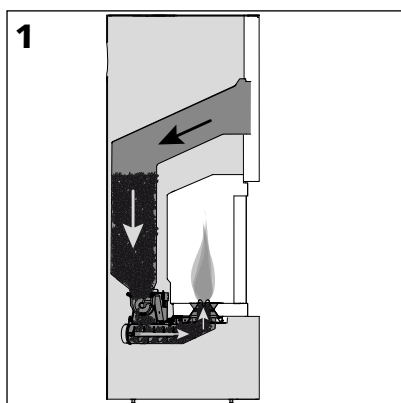


> Check that the combustion chamber and ash pan are properly sealed [diagrams 7&8]. **Their tightness ensures that the appliance operates correctly.**

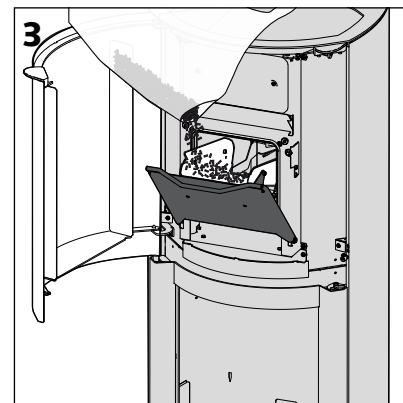
> Close the wicket door to complete the operation [diagram 9].



Filling the pellet tank



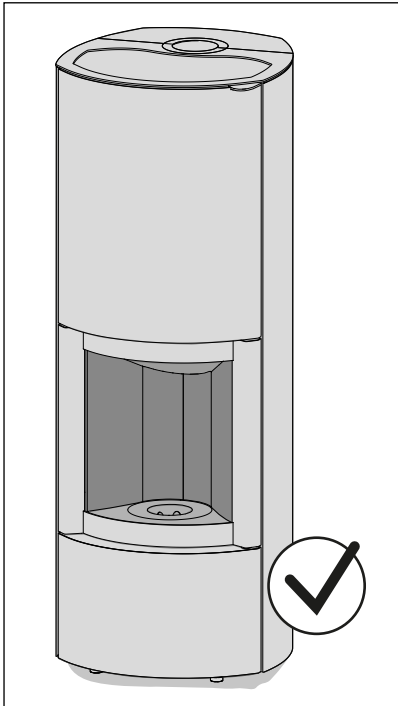
> Open the loading hopper access door. Then pull on the handle to lower the hatch into position [diagram 2].



> Once the hatch is open, pour the pellet into the hopper [diagram 3].

Caution!
Before filling the hopper, check that there are no foreign objects inside. Do not attempt to burn wet pellets. Do not pour in dust or small pieces of pellet.

Pre-commissioning checks (end)



Your Stûv P20-S is now ready to use. Please refer to the operating instructions for assistance in getting started.

How to control the Stûv P20-S

Please refer to the operating instructions for your device.

Once the device is switched on...

We recommend that you leave the appliance running for a few minutes to check that it is operating correctly (no alarm signal, good flame behavior, etc.).

For further details on the operation of the appliance, please refer to the user manual supplied with this installation manual.

Should you have any questions or comments, please do not hesitate to contact our customer service department at info@stuv.com.

ACCEPTANCE OF WORKS



THIS DOCUMENT CERTIFIES ACCEPTANCE OF THE WORK . THIS FORM IS TO BE COMPLETED BY THE INSTALLER IN 2 COPIES, 1 FOR THE INSTALLER, 1 FOR THE USER.

THE PURCHASER

SURNAME
FIRST NAME
ADDRESS WHERE WORKS WERE CARRIED OUT
POST CODE
TOWN/PLACE
COUNTRY
EMAIL ADDRESS
TELEPHONE NUMBER

INSTALLATION ENGINEER

COMPANY
EMAIL ADDRESS
TELEPHONE NUMBER

YOUR STÛV STOVE P20-S

SERIAL N°
DATE OF INSTALLATION

FLUE CHARACTERISTICS

HEIGHT OF FLUE IN M
DIAMETER OF FLUE IN MM
TYPE OF FLUE

CHECK OF SYSTEM'S SETTINGS

CHECK ON THE VACUITY OF THE FLUE
VALIDATION OF DRAUGHT
PELLET QUALITY CHECK
COMMENTS
.....
.....

SAFETY GUIDELINES

The use of this system has to comply with the installer's recommendations and the manufacturer's instructions which are set out in the directions for use issued to the customer with the invoice and this confirmation of acceptance.

The performance and the longevity of the appliance are directly linked to the quality of the pellets used.

THE INSTALLATION ENGINEER (name written out in full and signature).....

THE CUSTOMER (name written out in full and signature)

☐ INSTRUCTIONS AND ADVICE ON LIGHTING, USE AND MAINTENANCE PROVIDED TO THE USER.

CONTACTS

Stûv stoves are designed and manufactured in Belgium by:

Stûv sa
rue Jules Borbouse 4
B-5170 Bois-de-Villers (Belgium)
info@stuv.com – www.stuv.com

Importer for Finland

Ilkka Alatarvas OY
Pikkujärventie 4B
01680 Vantaa
T 400 872 858
www.takkamaailma.com

Importer for Sweden

Eldoform Sverige AB
Slipgatan 2 – 117 39 Stockholm
T 0707 883 53 – www.eldoform.se

Importer for Denmark

Stove APS
Aldershvilevej 84 – 2880 Bagsvaerd
T 51 33 10 93

Importer for Estonia

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Sopruse 145 – 13417 Tallinn
T +372 56 249 004 - www.tulering.ee