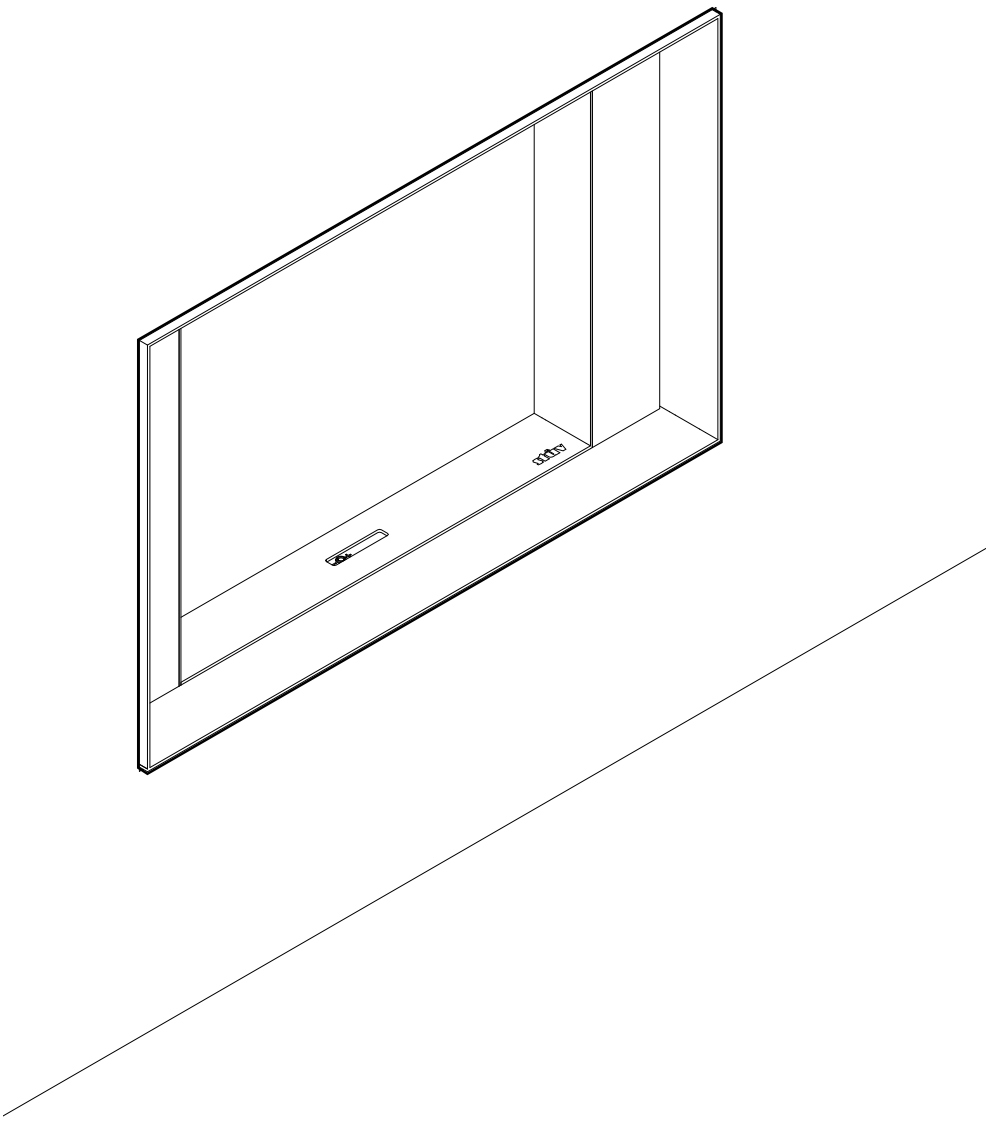
November 2025 [EN] 93104680

Installation instructions s[22]SF

For professionals

[SN] STÛV 22 SF 70: 174630 > ...
[SN] STÛV 22 SF 90: 176526 > ...
[SN] STÛV 22 SF 110: 185906 > ...



STÛV 22 SF 70
STÛV 22 SF 90
STÛV 22 SF 110

This guide is available in digital format at : www.stuv.com

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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General informations

1. Recommandations

Please read the installation and usage instructions before installing and using the product.

You should also follow the recommendations for using your stove.

This Stûv cladding should be installed by a professional who has received the appropriate training from the Stûv manufacturer or one of its importers.

Once the cladding has been installed, hand over these instructions to the user. Signature of the delivery note implies the recipient's acceptance and acknowledgement that the goods are the ones that were ordered. It is therefore important to check it thoroughly at the time of delivery.

Follow the maintenance instructions.

Any change made to the cladding may be dangerous. Please follow the specific instructions.

Installation of the stove, its accessories and the surrounds must comply with all (local and national) regulations and all (national and European) norms.

⚠ **Stûv recommends that each installation complies with the installation standards EN 15287-1 or -2 and that a calculation note is made according to standard 13384-1 and its annex to ensure that the appliance does not operate in a condensation regime. This calculation must cover the power range targeted by the appliance. Verify that your flue is in accordance with standard EN 1856-1 and EN 14989-2, which characterize metal flue pipes.**

2. Precautions regarding surrounding materials

The building materials around the device may reach temperatures of up to 90°C. Please make sure that they can tolerate this temperature both for their structural integrity and for the risk of dangerous emissions.

It is essential that you comply with the maximum amount of wood to be burned per hour to prevent the device from overheating (see page 9).

Follow the rules (local and national norms and regulations) for decompressing the chamber in which the device is installed.

3. Recommandations for dismantling, recycling and disposal of the appliance at the end of its life cycle

Stûv has a determinedly proactive responsible environmental apprach. 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.

4. Conditions légales d'utilisation

⚠ This appliance must not be used by children under 8 years old under any circumstances.

⚠ This appliance can only be used by persons with reduced physical, sensory, or mental capabilities if they are under supervision or have received the necessary training for the safe use of the appliance.

⚠ Cleaning and maintenance by the user must not be performed by children without supervision.

⚠ Children must not play with the appliance! Certain parts of the appliance, such as the glass and outer walls, can become very hot even during normal use (nominal power), and the glass radiation can be significant.



Labeling

1. CE marking

CE 16

Stûv S.A. Rue Jules Borbouse 4, 5170 Bois-de-villers

STÛV 22 SF 70

Intended use : wood insert for space heating in residential buildings. Please read and follow the user instructions before starting! **Only use recommended fuels :** wood logs exclusively

European standards:	EN 16510-1:2022 & EN 16510-2-2:2022
Notified body identification number:	0608
Declaration of performance number:	QA161322917

Hygiene, health and environment		**Nominal output**	**Part load output**
Emissions at 13% d'oxygène	**CO**	969 mg/Nm³	-
	NOx	118 mg/Nm³	-
	OGC	54 mg/Nm³	-
	PM	20 mg/Nm³	-

Fire safety		Total distance	Convection air space	Insulation (Thermal conduct. of 0.105 W/m.K at 400°C)
Rear	**dR**	96 mm	10 mm	86 mm
Sides	**dS**	78 mm	10 mm	68 mm
Ceiling*	**dC**	223 mm	150 mm	73 mm
Bottom	**dB**	100 mm	100 mm	0 mm
Distance to adjacent combustible (ex. furniture)	**dP**	1500 mm	1500 mm	-
Floor in front	**dF**	500 mm	500 mm	-
Side radiation area	**dL**	300 mm	300 mm	-

Safety and accessibility in use	**Nominal output**	**Part load output**
Flue gas outlet temperature	309 °C	-
Minimum flue draught	12.4 Pa	-
Flue gas mass flow	10.7 g/s	-
Fire safety of installation to the chimney		T 400G

Energy economy and heat retention	**Nominal**	**Part load**
Space heat output	12.3 kW	-
Water heat output	n.a.	n.a.
Efficiency	80.6 %	-
Space heating efficiency at nominal heat output	70.6 %	-
Electric power consumption	n.a.	n.a.
Power consumption in standby mode	n.a.	
Energy-Efficiency Index (EEI)	107	
Energy-Efficiency class	A	
Electric power (peak)	n.a.	
Electric power (average)	n.a.	
Voltage	n.a.	
Frequency	n.a.	
Product type	BF	

Mechanical resistance and stability	
Load bearing capacity	NPD

*Ceiling clearances may be reduced if insulation is installed on top of the insert. Refer to your installer's instructions in accordance with applicable codes and standards.

CE 15

Stûv S.A. Rue Jules Borbouse 4, 5170 Bois-de-villers

STÛV 22 SF 90

Intended use : wood insert for space heating in residential buildings. Please read and follow the user instructions before starting! **Only use recommended fuels :** wood logs exclusively

European standards:	EN 16510-1:2022 & EN 16510-2-2:2022
Notified body identification number:	0608
Declaration of performance number:	QA151322916

Hygiene, health and environment		**Nominal output**	**Part load output**
Emissions at 13% d'oxygène	**CO**	979 mg/Nm³	-
	NOx	100 mg/Nm³	-
	OGC	56 mg/Nm³	-
	PM	12 mg/Nm³	-

Fire safety		Total distance	Convection air space	Insulation (Thermal conduct. of 0.105 W/m.K at 400°C)
Rear	**dR**	76 mm	10 mm	66 mm
Sides	**dS**	80 mm	10 mm	70 mm
Ceiling*	**dC**	211 mm	150 mm	61 mm
Bottom	**dB**	46 mm	0 mm	46 mm
Distance to adjacent combustible (ex. furniture)	**dP**	2000 mm	2000 mm	-
Floor in front	**dF**	1500 mm	1500 mm	-
Side radiation area	**dL**	1500 mm	1500 mm	-

Safety and accessibility in use	**Nominal output**	**Part load output**
Flue gas outlet temperature	326°C	°C
Minimum flue draught	11.8 Pa	Pa
Flue gas mass flow	12.5 g/s	g/s
Fire safety of installation to the chimney		T 400G

Energy economy and heat retention	**Nominal**	**Part load**
Space heat output	16.2 kW	kW
Water heat output	n.a.	n.a.
Efficiency	81.1 %	%
Space heating efficiency at nominal heat output	71.1 %	-
Electric power consumption	n.a.	n.a.
Power consumption in standby mode	n.a.	
Energy-Efficiency Index (EEI)	108	
Energy-Efficiency class	A+	
Electric power (peak)	n.a.	
Electric power (average)	n.a.	
Voltage	n.a.	
Frequency	n.a.	
Product type	BF	

Mechanical resistance and stability	
Load bearing capacity	NPD

*Ceiling clearances may be reduced if insulation is installed on top of the insert. Refer to your installer's instructions in accordance with applicable codes and standards.

CE 15

Stûv S.A. Rue Jules Borbouse 4, 5170 Bois-de-villers

STÛV 22 SF 90 ULTRA

Intended use : wood insert for space heating in residential buildings. Please read and follow the user instructions before starting! **Only use recommended fuels :** wood logs exclusively

European standards: EN 16510-1:2022 & EN 16510-2-2:2022

Notified body identification number: 1880

Declaration of performance number: QA151322916

Hygiene, health and environment		Nominal output	Part load output
Emissions at 13% d'oxygène	**CO**	554 mg/Nm³	-
	NOx	99 mg/Nm³	-
	OGC	16 mg/Nm³	-
	PM	8 mg/Nm³	-

Fire safety		Total distance	Convection air space	Insulation (Thermal conduct. of 0.105 W/m.K at 400°C)
Rear	**dR**	200 mm	200 mm	0 mm
Sides	**dS**	150 mm	150 mm	0 mm
Ceiling*	**dC**	750 mm	750 mm	0 mm
Bottom	**dB**	0 mm	0 mm	0 mm
Distance to adjacent combustible (ex. furniture)	**dP**	2000 mm	2000 mm	-
Floor in front	**dF**	1500 mm	1500 mm	-
Side radiation area	**dL**	1500 mm	1500 mm	-

Safety and accessibility in use	Nominal output	Part load output
Flue gas outlet temperature	326 °C	-
Minimum flue draught	11.5 Pa	-
Flue gas mass flow	12.3 g/s	-
Fire safety of installation to the chimney		T 400G

Energy economy and heat retention	Nominal	Part load
Space heat output	16.8 kW	-
Water heat output	n.a.	n.a.
Efficiency	85.0 %	-
Space heating efficiency at nominal heat output	75.0 %	-
Electric power consumption	n.a.	n.a.
Power consumption in standby mode	n.a.	
Energy-Efficiency Index (EEI)	113	
Energy-Efficiency class	A+	
Electric power (peak)	n.a.	
Electric power (average)	n.a.	
Voltage	n.a.	
Frequency	n.a.	
Product type	BF	

Mechanical resistance and stability	
Load bearing capacity	NPD

*Ceiling clearances may be reduced if insulation is installed on top of the insert. Refer to your installer's instructions in accordance with applicable codes and standards.

CE 15

Stûv S.A. Rue Jules Borbouse 4, 5170 Bois-de-villers

STÛV 22 SF 110

Intended use : wood insert for space heating in residential buildings. Please read and follow the user instructions before starting! **Only use recommended fuels :** wood logs exclusively

European standards: EN 16510-1:2022 & EN 16510-2-2:2022

Notified body identification number: 0608

Declaration of performance number: QA151322915

Hygiene, health and environment		Nominal output	Part load output
Emissions at 13% d'oxygène	**CO**	1066 mg/Nm³	-
	NOx	103 mg/Nm³	-
	OGC	69 mg/Nm³	-
	PM	26 mg/Nm³	-

Fire safety		Total distance	Convection air space	Insulation (Thermal conduct. of 0.105 W/m.K at 400°C)
Rear	**dR**	114 mm	10 mm	104 mm
Sides	**dS**	148 mm	10 mm	138 mm
Ceiling*	**dC**	476 mm	350 mm	126 mm
Bottom	**dB**	143 mm	100 mm	43 mm
Distance to adjacent combustible (ex. furniture)	**dP**	2000 mm	2000 mm	-
Floor in front	**dF**	1500 mm	1500 mm	-
Side radiation area	**dL**	1500 mm	1500 mm	-

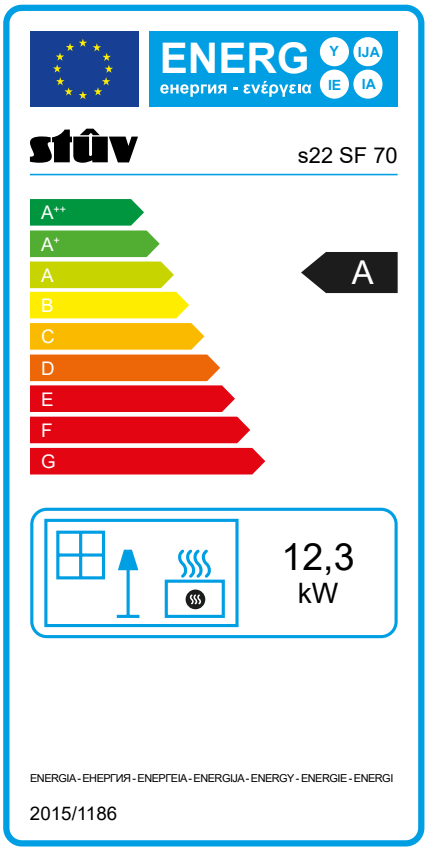
Safety and accessibility in use	Nominal output	Part load output
Flue gas outlet temperature	337 °C	-
Minimum flue draught	11.8 Pa	-
Flue gas mass flow	14.9 g/s	-
Fire safety of installation to the chimney		T 400G

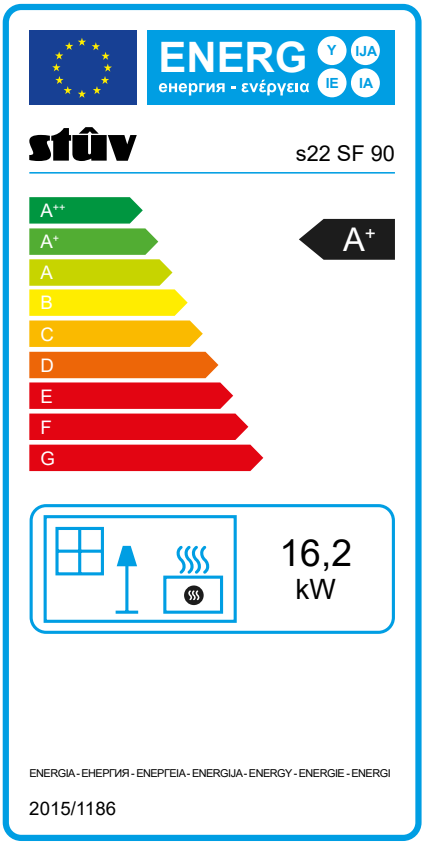
Energy economy and heat retention	Nominal	Part load
Space heat output	18.2 kW	-
Water heat output	n.a.	n.a.
Efficiency	80.2 %	-
Space heating efficiency at nominal heat output	70.2 %	-
Electric power consumption	n.a.	n.a.
Power consumption in standby mode	n.a.	
Energy-Efficiency Index (EEI)	106	
Energy-Efficiency class	A	
Electric power (peak)	n.a.	
Electric power (average)	n.a.	
Voltage	n.a.	
Frequency	n.a.	
Product type	BF	

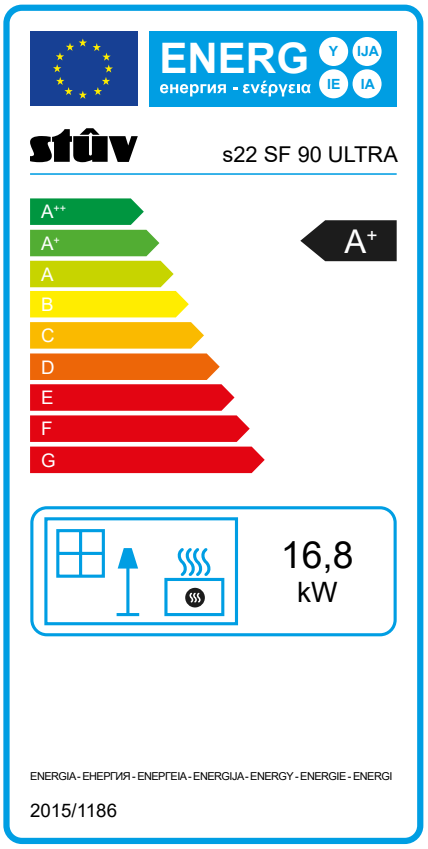
Mechanical resistance and stability	
Load bearing capacity	NPD

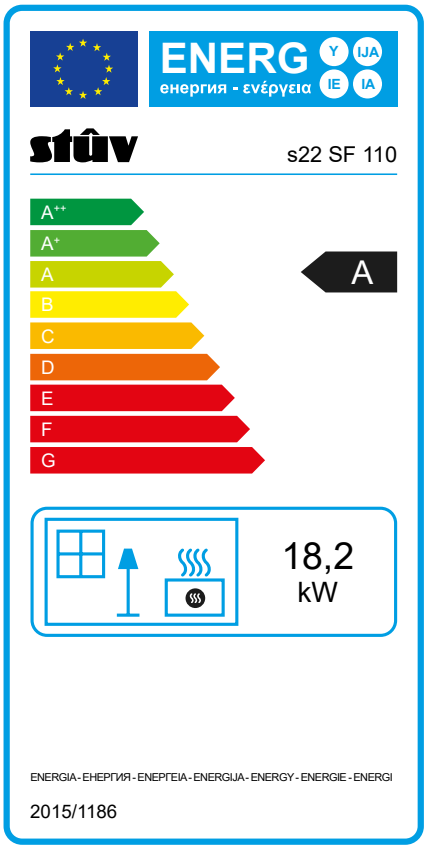
*Ceiling clearances may be reduced if insulation is installed on top of the insert. Refer to your installer's instructions in accordance with applicable codes and standards.

2. Energy labels









3. Product data sheets

Product datasheet
EU 2015/1186

Stûv s.a.

Rue Jules Borbouse,4
5170 Bois-de-Villers
info@stuv.com – www.stuv.com

Modele reference:

STÛV 22 SF 70

Energy efficiency rating	
Direct thermal power	**12.3 kW**
Indirect thermal power	**-**
Energy efficiency index	**107**
Output at rated thermal input	**80.6 %**
Output at minimum capacity	**-**

Special precautions that must be taken during assembly, installation or maintenance of the decentralised heating device:

Consult the installation, usage and maintenance instructions

Product datasheet
EU 2015/1186

Stûv s.a.

Rue Jules Borbouse,4
5170 Bois-de-Villers
info@stuv.com – www.stuv.com

Modele reference:

STÛV 22 SF 90

Energy efficiency rating	
Direct thermal power	**16.2 kW**
Indirect thermal power	**-**
Energy efficiency index	**108**
Output at rated thermal input	**81.1 %**
Output at minimum capacity	**-**

Special precautions that must be taken during assembly, installation or maintenance of the decentralised heating device:

Consult the installation, usage and maintenance instructions

Product datasheet
EU 2015/1186

Stûv s.a.

Rue Jules Borbouse,4
5170 Bois-de-Villers
info@stuv.com – www.stuv.com

Modele reference:

STÛV 22 SF 90 ULTRA

Energy efficiency rating	
Direct thermal power	**16.8 kW**
Indirect thermal power	**-**
Energy efficiency index	**113**
Output at rated thermal input	**85.0 %**
Output at minimum capacity	**-**

Special precautions that must be taken during assembly, installation or maintenance of the decentralised heating device:

Consult the installation, usage and maintenance instructions

Product datasheet
EU 2015/1186

Stûv s.a.

Rue Jules Borbouse,4
5170 Bois-de-Villers
info@stuv.com – www.stuv.com

Modele reference:

STÛV 22 SF 110

Energy efficiency rating	
Direct thermal power	**18.2 kW**
Indirect thermal power	**-**
Energy efficiency index	**106**
Output at rated thermal input	**80.2 %**
Output at minimum capacity	**-**

Special precautions that must be taken during assembly, installation or maintenance of the decentralised heating device:

Consult the installation, usage and maintenance instructions

Product presentation

1. Standards, certifications and technical specifications in accordance with EN 16510-2-2 (built-in stoves)

1.1. Flue calculation data according to standard EN 13384-1



The Stûv 22 SF inserts (intermittent operation) meet the requirements (efficiency, gas emissions, safety, etc.) of the European standards EN 16510-2-2. The data provided below has been verified by an accredited laboratory.

⚠ **In all cases, your installation must comply with standards EN 15287-1 or -2 and their annexes. Consequently, your flue system must adhere to standard EN 13384-1 and its annex.**

	22 SF 70		**22 SF 90**		**22 SF 90 ULTRA**		**22 SF 110**	
	Part.	Nom.	Part.	Nom.	Part.	Nom.	Part.	Nom.
Heat output (kW)	-	12.3	-	16.2	-	16.8	-	18.2
Efficiency (%)	-	80.6	-	81.1	-	85.0	-	80.2
CO_2 concentration (%)	-	10.0	-	11.2	-	11.9	-	10.5
Average flue gas temperature at the appliance "spigot" outlet (°C)	-	309	-	326	-	326	-	337
Minimum draft at the appliance outlet for flue calculation (Pa)	-	12.4	-	11.8	-	11.5	-	11.8
Flue gas mass flow rate (g/s)	-	10.7	-	12.5	-	12.3	-	14.9

1.2. Other technical data

Flue shape	Circular		Circular		Circular		Circular	
Flue diameter (mm)	180		200				200	
Air intake diameter (mm)	160 (basic)		160 (basic)				160 (basic)	
Recommended wood consumption range per hour at 12% humidity (kg/hour)	-	3.5	-	4.5	-	4.6	-	3.8
Max. wood consumption per hour to avoid overheating the appliance (kg/hour)	5.2		6.8		6.7		7.7	
Optimal power usage range (kW)	4	18	5	24	5	25	5	27
Maximum log length in horizontal position (cm)	33		50				80	
Minimum section of combustion air supply from outside when the appliance is not directly connected to outside air (cm^2)	200		200				200	
Maximum length & number of 90° bends with **basic Ø160mm air intake ducts**.	⚠ **Do not exceed 12 m and make sure to maintain the same cross-section up to the intake outlet!** Any deviation from this rule requires reference to your calculation note!							
Maximum length & number of 90° bends with **Ø100mm air intake ducts for optional air box**.	⚠ In every case **do not exceed 6 m!** Respect the following: • length : 1m (max. 4 elbows allowed) • length : 2m (max. 4 elbows allowed) • length : 3m (max. 2 elbows allowed) • length : 4m>6m (0 elbows allowed)							
weight (kg)	238		265				277	

2. Product composition

2.1. Overview of Stûv 22

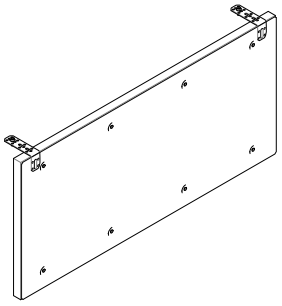
Included with the stove (basic) :
[01] insert
[02] combustion chamber trim
(choose from light or dark)

Finishing frames (choice) :

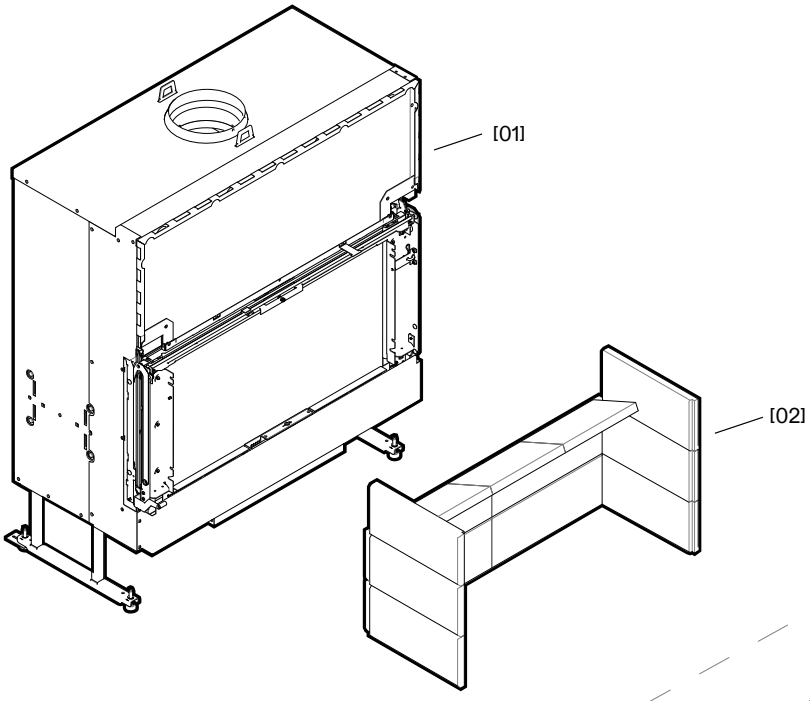
[03] Door frame (provided with chosen cladding)

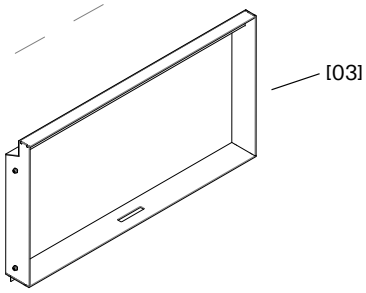
OPTIONS :
[04] front insulation kit
[05] fan
[06] ventilation chamber
[07] nozzle Ø100mm for external air inlet provided with flexible tubing)
[08] nozzle and bend Ø160mm for external air inlet + make-up air
[09] barbecue kit

OPTIONS



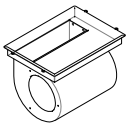
BASIC KIT

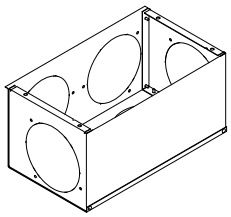




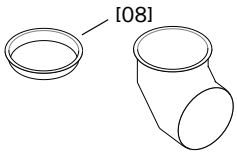
DOOR FRAME (+ finishing option)*
+ Trim frame
+ front panel
+ ready to fit cladding

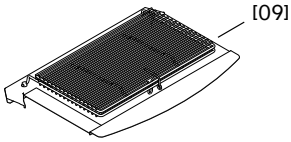
OPTIONS







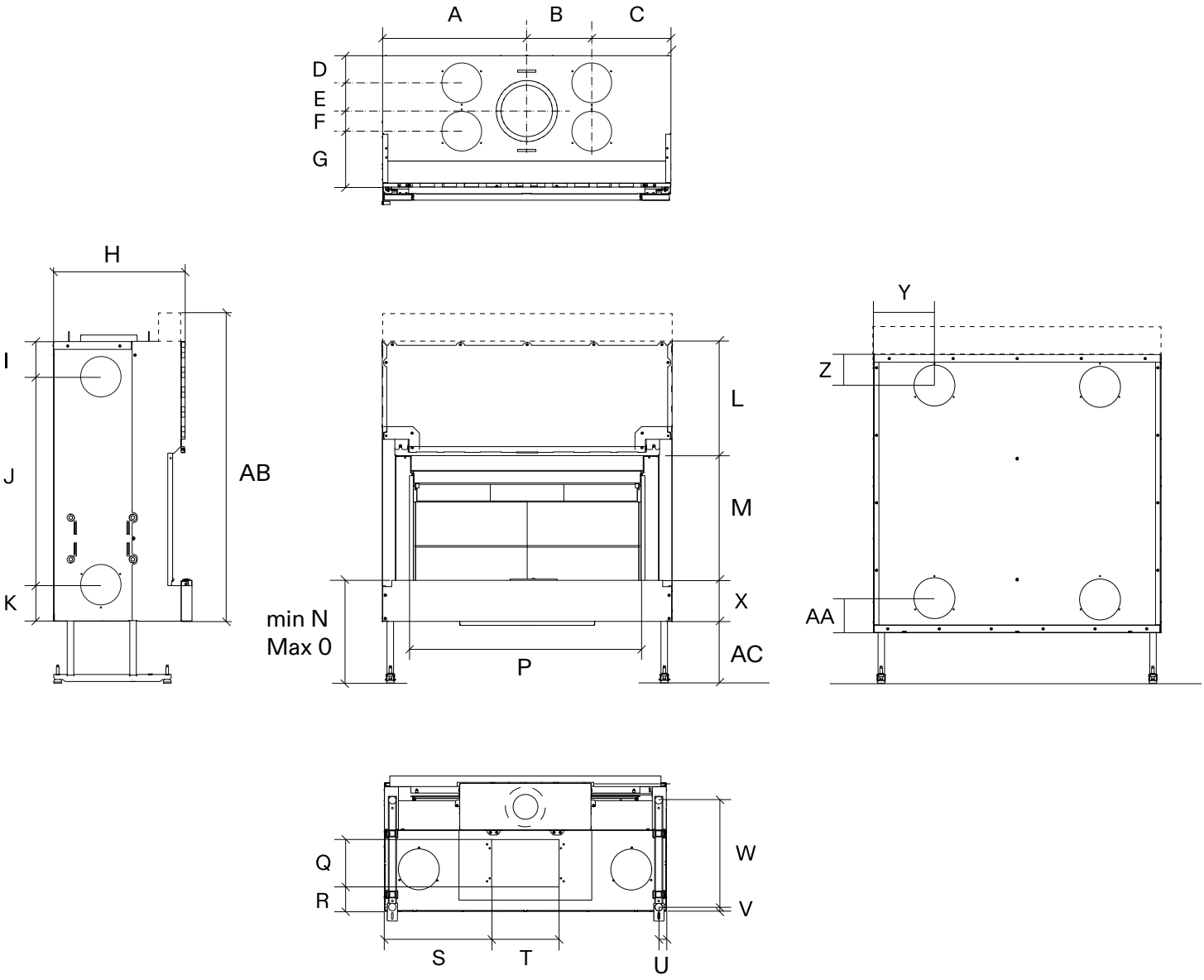




*Each trim frame, cladding or ready-to-fit finish is supplied with a dedicated frame type designed to suit it. Thanks to its range of configurations, Stûv offers a choice of claddings and finishes. Please refer to the appropriate manuals for dimensions & installation instructions.

2.2. Useful dimensions (mm)

2.2.1. Product dimensions (without door or finish)

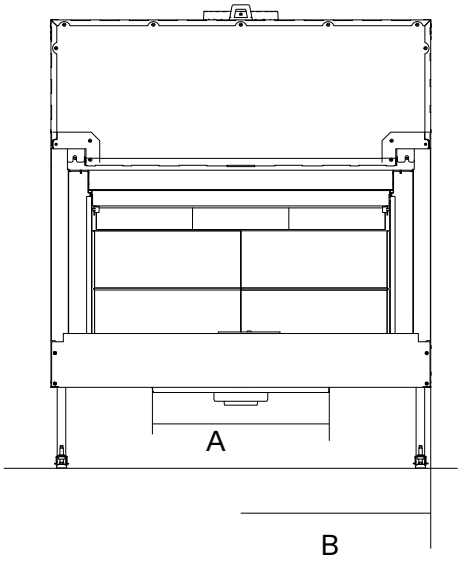


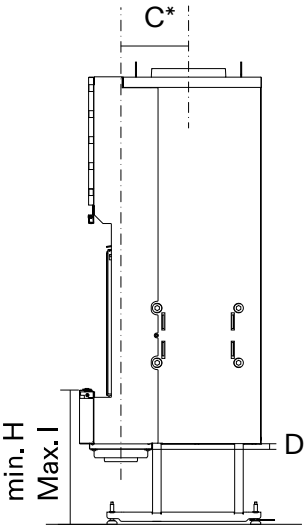
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Stûv 22 SF 70	355	260	94	103	110	81	212	505	117	1014	111	610	640	220	600	470
Stûv 22 SF 90	455	250	205	103	110	81	212	505	135	900	137	540	570	220	600	670
Stûv 22 SF 110	555	250	305	103	110	81	212	505	135	800	137	440	470	220	600	870

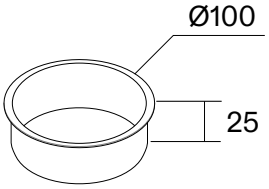
	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
Stûv 22 SF 70	186	95	220	265	30	15	420	160	135	105	111	1412
Stûv 22 SF 90	186	95	320	265	30	15	420	160	235	120	132	1272
Stûv 22 SF 110	186	95	420	265	30	15	420	160	235	120	132	/

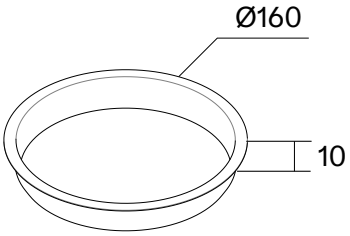
⚠ The updated dimensions of the insert, including its optional frame, cladding, or ready-to-fit finish, can be found in their respective documentation packages.

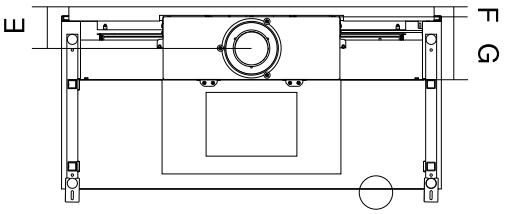
2.2.2. Air box dimensions (vertical inlet)







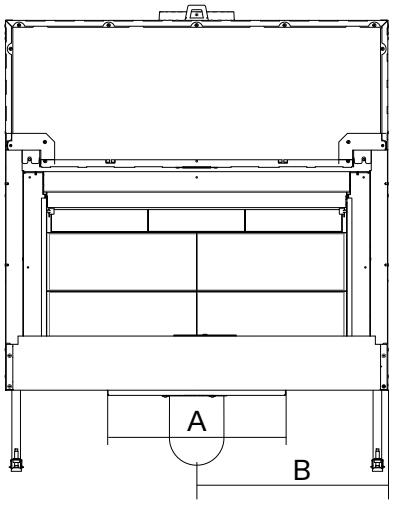


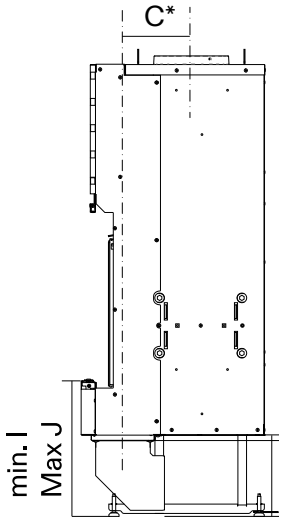


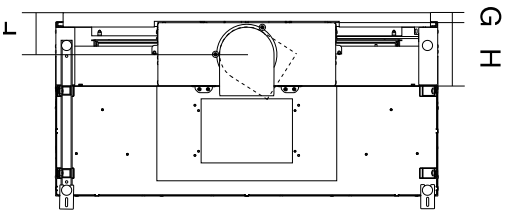
	A	B	C*	D	E	F	G	H	I
Stûv 22/70	520	355	198	15	130	30	180	220	600
Stûv 22/90	520	455	198	15	130	30	180	220	600
Stûv 22/110	520	555	198	15	130	30	180	220	600

* distance between the centre of the air inlet nozzle and the centre of the smoke outlet.

2.2.3. Air box dimensions (horizontal inlet)







	A	B	C*	D	E	F	G	H	I	J
Stûv 22/70	520	355	198	15	200	130	30	180	400	600
Stûv 22/90	520	455	198	15	200	130	30	180	400	600
Stûv 22/110	520	555	198	15	200	130	30	180	400	600

* distance between the centre of the air inlet nozzle and the centre of the smoke outlet.

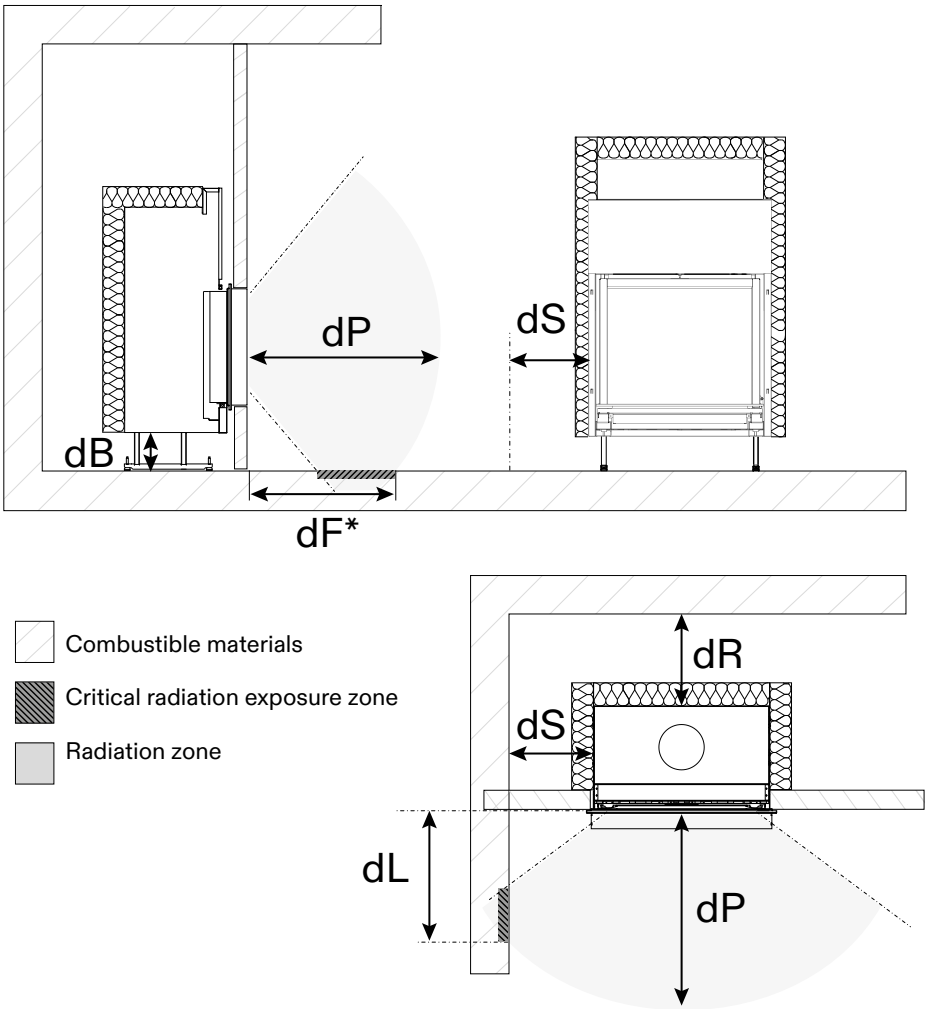
Preparation of the area

1. Load-bearing capacity of the structure

⚠ Make sure that the floor's strength is sufficient to suppor**t the fireplace**, the weight of the **flue system**, and **any potential casing construction**. In case of doubt, consult a specialist. For information regarding the weight of your appliance, refer to the table on page 9.

2. Safety requirements

2.1. Safety distances to combustible materials (mm)



Heat radiation and surroundings materials

The radiation from the glass and walls can be significant. It is imperative to maintain safety distances from combustible materials or ensure that materials exposed to this radiation are resistant to high temperatures.

⚠ Due to the effect of radiation, the floor temperature can reach up to **85°C***. Please take this into account when choosing your floor finish to ensure it is not altered. Also, avoid "heat traps" in the hood!

**If the stove is located in a bell-shaped environment (e.g., an old hearth), this space must be ventilated to avoid "heat traps." Leave a minimum clearance of 750mm above the appliance.

NOTE:
The updated drawings of the safety distances adapted to the D4 optionnal kit can be found in its own package.

2.1.1. Safety distances for Stûv 22 SF

Fire safety **Stûv 22 SF 70**		Total distance	Convection air space	Insulation (Thermal conduct. of 0.105 W/m.K at 400°C)
Rear	**dR**	96 mm	10 mm	86 mm
Sides	**dS**	78 mm	10 mm	68 mm
Ceiling*	**dC**	223 mm	150 mm	73 mm
Bottom	**dB**	100 mm	100 mm	0 mm
Distance to adjacent combustible (ex. furniture)	**dP**	1500 mm	1500 mm	-
Floor in front	**dF**	500 mm	500 mm	-
Side radiation area	**dL**	300 mm	300 mm	-

Fire safety **Stûv 22 SF 90**		Total distance	Convection air space	Insulation (Thermal conduct. of 0.105 W/m.K at 400°C)
Rear	**dR**	96 mm	10 mm	86 mm
Sides	**dS**	78 mm	10 mm	68 mm
Ceiling*	**dC**	223 mm	150 mm	73 mm
Bottom	**dB**	100 mm	100 mm	0 mm
Distance to adjacent combustible (ex. furniture)	**dP**	1500 mm	1500 mm	-
Floor in front	**dF**	500 mm	500 mm	-
Side radiation area	**dL**	300 mm	300 mm	-

⚠ These specified safety distances of the **Stûv 22** apply **ONLY to smoke ducts that are fully insulated** with insulation material with a thermal conductivity of 0.07 W/m.K at 400 °C and a thickness of 25 mm. For all other cases, refer to the applicable regulations.
* Ceiling clearances of the **Stûv 22 SF** may be reduced if insulation is installed on top of the insert. Refer to your installer's instructions in accordance with applicable codes and standards.

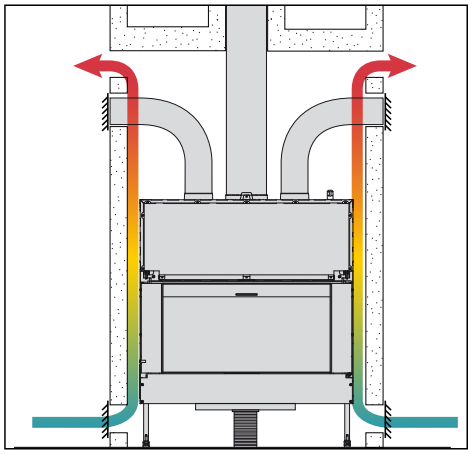
Fire safety **Stûv 22 SF 110**		Total distance	Convection air space	Insulation (Thermal conduct. of 0.105 W/m.K at 400°C)
Rear	**dR**	96 mm	10 mm	86 mm
Sides	**dS**	78 mm	10 mm	68 mm
Ceiling*	**dC**	223 mm	150 mm	73 mm
Bottom	**dB**	100 mm	100 mm	0 mm
Distance to adjacent combustible (ex. furniture)	**dP**	1500 mm	1500 mm	-
Floor in front	**dF**	500 mm	500 mm	-
Side radiation area	**dL**	300 mm	300 mm	-

2.1.2. Safety distances for Stûv 22 ULTRA

Fire safety **Stûv 22 SF 90 ULTRA**		Total distance	Convection air space	Insulation (Thermal conduct. of 0.105 W/m.K at 400°C)
Rear	**dR**	200 mm	200 mm	0 mm
Sides	**dS**	150 mm	150 mm	0 mm
Ceiling*	**dC**	750 mm	750 mm	0 mm
Bottom	**dB**	0 mm	0 mm	0 mm
Distance to adjacent combustible (ex. furniture)	**dP**	2000 mm	2000 mm	-
Floor in front	**dF**	1500 mm	1500 mm	-
Side radiation area	**dL**	1500 mm	1500 mm	-

* Ceiling clearances of the **Stûv 22 SF ULTRA** may be reduced if insulation is installed on top of the insert. Refer to your installer's instructions in accordance with applicable codes and standards.

2.2. Stove's surroundings and decoration



The recess:

The Stûv 22 is systematically fitted with a finishing accessory (frame or front panel). The dimensions of the recess will depend on the finish chosen.

The stove must be able to expand freely. The brickwork or decorative materials must not enter into contact with the stove under any circumstances; leave a gap of at least 5 mm.

This recess and/or the space around the stove must be ventilated to prevent "**heat traps**". Any closed or contained space constitutes a heat trap which causes the walls to heat up. Circulation of air can be ensured by having an air inlet in the base of the cladding (hood or recess) and an outlet in the upper part (diagram 1).

If necessary, insert insulating material of the thickness required between the stove and inflammable materials (see pages 3).

Leave sufficient space around the fan (if you have chosen this option).

Radiated heat:

Significant heat may be radiated through the glass door. Ensure the materials exposed to this radiated heat are resistant to high temperatures (diagram 2).Safety

Depending on the type of floor in front of the device, it may be necessary to provide for a protective plate (e.g. a hearth plate is recommended to protect a wooden floor).

The use of flammable materials to finish a Stûv 22 is only guaranteed by Stûv with Stûv finishes and in accordance with the requirements for each finish.

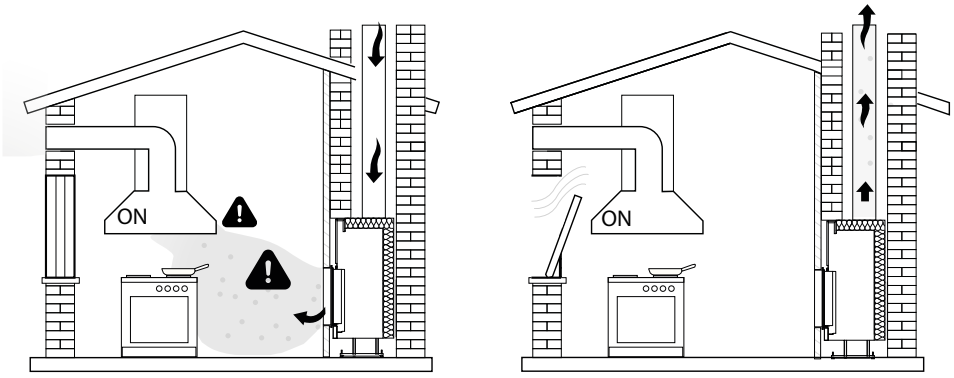
3. Combustion air inlet

3.1. Basic notions

⚠ Your stove requires air to function properly.
Ideally, your installer will have connected your stove directly to the outside for air supply (ducted outside air intake, see next page). In this case, if your installation has an air inlet valve, make sure to open it before lighting the stove!
If your stove is not connected directly to the outside, you must provide sufficient air intake near the fireplace: a minimum diameter of 160 mm or a minimum surface area of 200 cm^2. This air intake must comply with local and national regulations. Always keep this air intake free of any obstacles.

⚠ BEWARE OF OTHER APPLIANCES!
The presence of other appliances that extract air from a room (such as extractors, cooker hoods or air conditioners) can seriously affect the operation of your stove, even if it has its own external air supply. These appliances create negative pressure (vacuum) in the room, which can reduce the amount of air available to your stove and make its air supply insufficient for proper combustion.

This situation can compromise the efficiency and safety of your stove, creating a risk of backdraft even if your air intake is ducted. Toxic combustion gases can then be drawn from the chimney or other exhaust ducts into the living areas. **If you think your installation poses this type of risk, it is essential to consult a professional, who will help you plan additional air intakes suitable for the total consumption of all your appliances.**



3.2. The ideal solution : drawing air from outside through a ducted connection

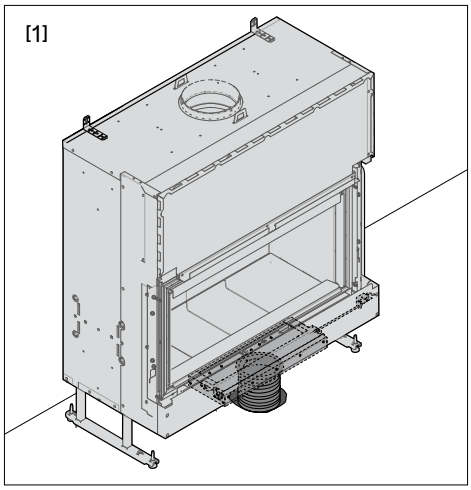
3.2.1. Connection to the insert

The stove needs air for combustion, especially when it is operating with the glass door open (e.g., when you reload it).

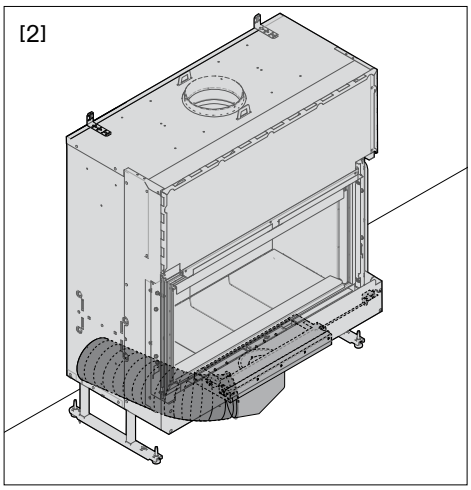
Drawing air from outside:
The Stûv 22 is designed to be connected directly to an outside air inlet (independent from the air inside the house). We recommend this configuration.
Drawing the air from outside is possible in 4 different configurations:

- **upright under the stove**, just underneath the air box to be connected via a nozzle and a Ø160mm flexible tube (combustion air + make-up air for open fire mode) (diagram 1).
- **horizontally, behind the stove**, to be connected with the Ø160mm flexible tube with pivoting bend (combustion air + make-up air for open fire mode) (diagram 2).
- **upright under the stove**, just underneath the air box to be connected via a nozzle and a Ø100mm flexible tube (combustion air only, make sure there is an additional external air inlet valve in the room for open fire mode) (diagram 3). Warning: this configuration is not regulated in France and Italy.
- **under the stove, at the front**, if the air box is not connected. (diagram 4)

[1]



[2]



⚠ If the stove has a fan and the combustion air box is not connected, you will need to incorporate a fan box so that it does not use up the combustion air).

3.2.2. Specifications of the duct

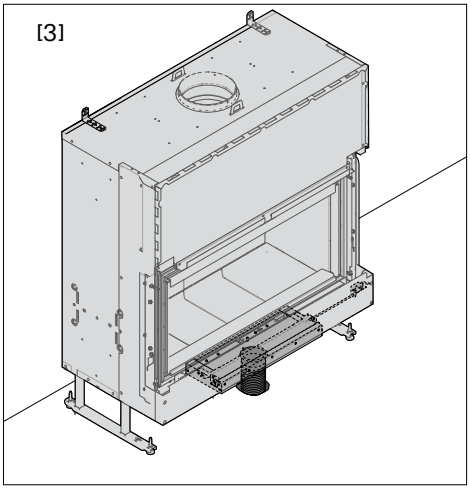
The duct that brings in outside air (whether it is connected to the stove or not):

- 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 ideally be fitted with a closure valve (for example, the Stûv valve – see below) to prevent the room from becoming cold when the stove is not in use.
- will be as short as possible to prevent pressure loss and to prevent making the house cold.

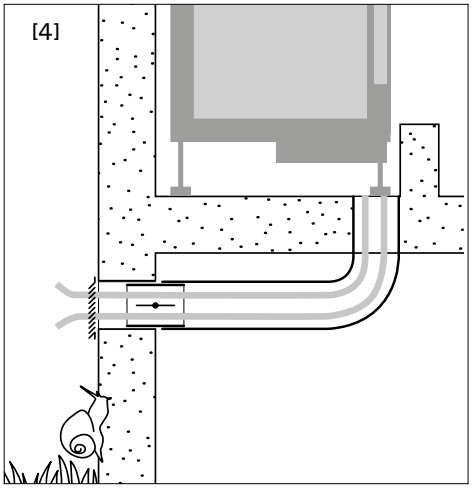
⚠ If you use our standard flexible Ø 160 mm flue, we recommend a maximum length of 6 m and no more than 6 elbows. If you exceed these guidelines, you must compensate with a greater diameter and/ or a smoother duct.

⚠ Careful not to crush the flue!

[3]



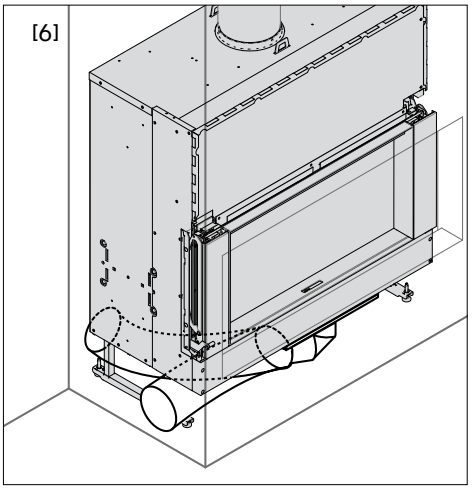
[4]



[5]



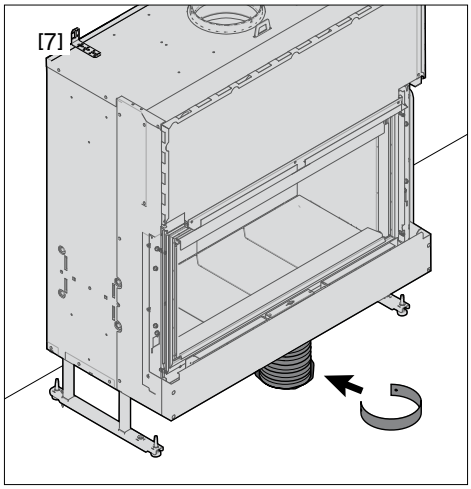
[6]



3.2.3. Make up air

⚠ Warning!
- The air box cannot under any circumstances bear the weight of the device! Check that the device is resting on its feet, that these are well fastened and that the device is slightly higher than the base of the air box.
- The bottom air box is not compatible with forced convection (fan).

A tube cover is provided with the stove. Some claddings need this to be installed so that the tube is not visible via the gap between the floor and the bottom of the cladding (diagram 7).



3.3. If no outside air can be braught near the stove (most unfavourable case)

Ensure there is sufficient replenishment of air in the room when the stove is in use.

- Be careful with air extraction systems (kitchen hoods, air conditioning, mechanically-controlled ventilation, other stoves) in operation in the same space or in an adjacent room. They also use lots of air and can cause a depression in the room and prevent the stove from operating correctly (risk of draughtback). They can affect the operation of the stove even if it is connected to an outside air inlet.
- If a forced convection system is installed, you are strongly recommended to draw in air from the outside or from the room (in all cases, away from the mantelpiece) [diagram 6].

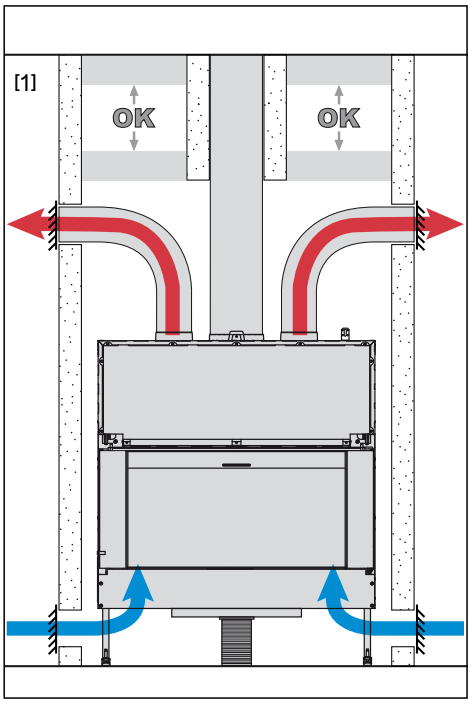
Ensure the configuration chosen fully meets local and national regulations.

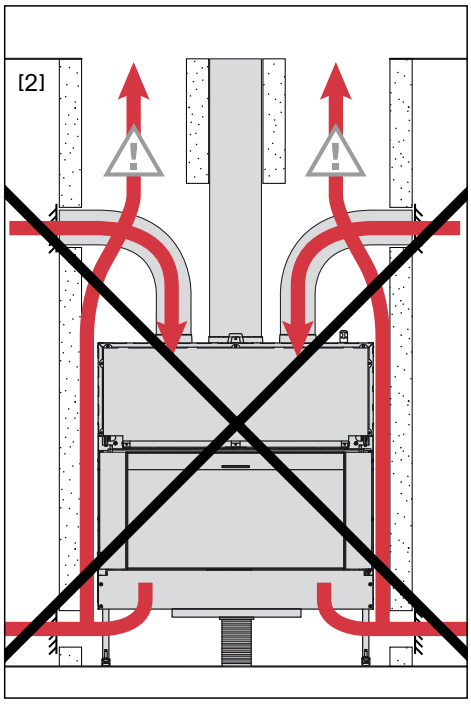
4. Flue pipes

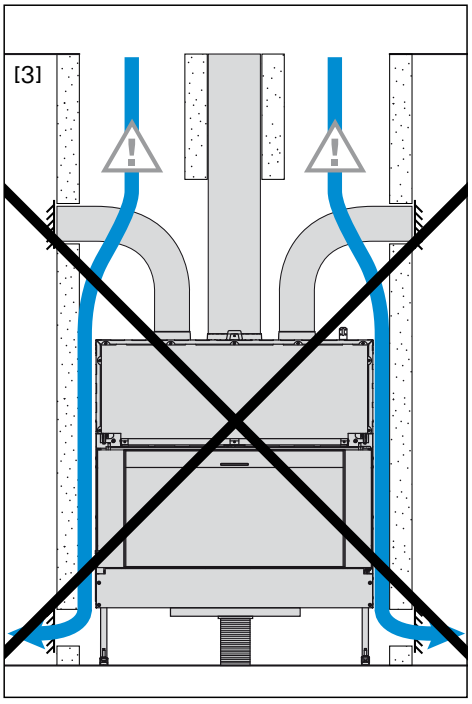
4.1. Basic information

Stûv recommends that each installation complies with the installation standards EN 15287-1 or -2 and that a calculation note is carried out according to standard 13384-1 and its annex to ensure that the appliance does not operate in condensation mode. This calculation must include the power range targeted by the appliance. Check that your flue meets the standards EN1856-1 and EN 14989-2, which characterize metal flues.

It is imperative to avoid the formation of condensation at your smoke outlet. In case of damage caused by the presence of condensation, the damages are not covered by the Stûv warranty.







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

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.

At **www.stuv.eu > questions – answers** you will find a simplified method to determine the specifications of the flue depending on the type of stove.

As the Stûv 22 SF is a highly efficient stove, the smoke flue must be of good quality. The flue should be as straight as possible and insulated to encourage the draught and 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 can only be connected to a smoke flue serving several systems on 4 conditions:

- The stove is equipped with the "automatically closing door" option.
- all the systems connected to this flue use the same fuel,
- they have automatically closing doors,
- the flue has been checked for this type of usage; consult a professional if necessary.
-

Caution !
The appliance must not be operated in a smoke control area in open fire.

Take care to avoid heat loss!

If several flues are available: only use one of them. Block up the unused flues at the top and bottom and, generally speaking, ensure that the top of the recess where the stove is fitted is air-tight (diagram 1).

IMPORTANT!
Beware of any heat loss

Unused flues or ventilated spaces between walls can generate undesirable counter-draughts (the hot air escapes) (diagram 2), or cause the entry of cold air from outside (diagram 3).

Diameter of the smoke outlet:

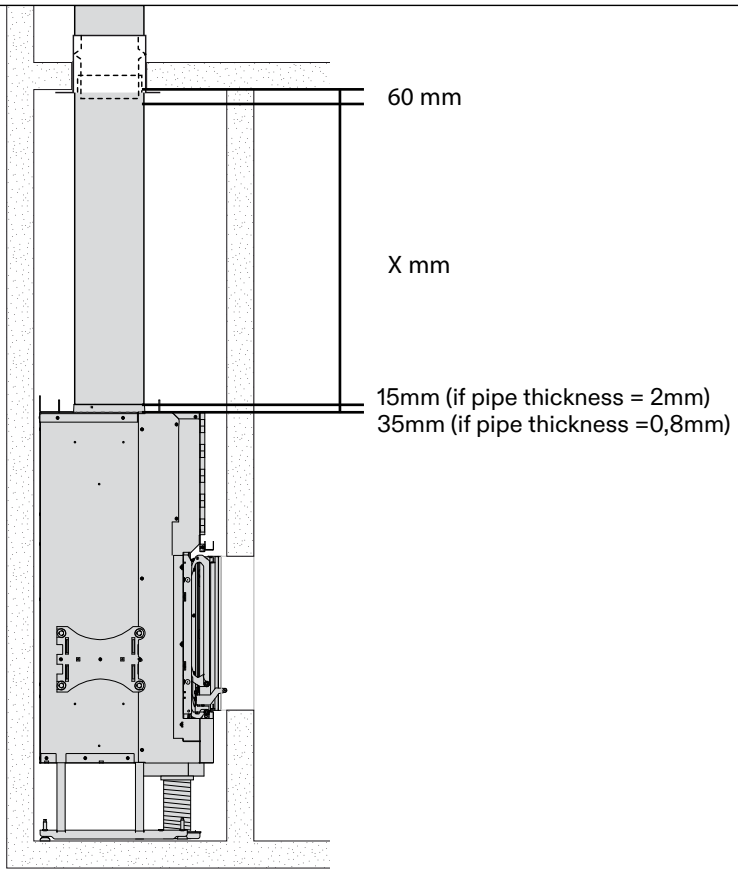
22/70 : D180 mm
22/90 : D200 mm
22/110 : D200 mm

Some flue configurations may require a different diameter than that provided as standard.

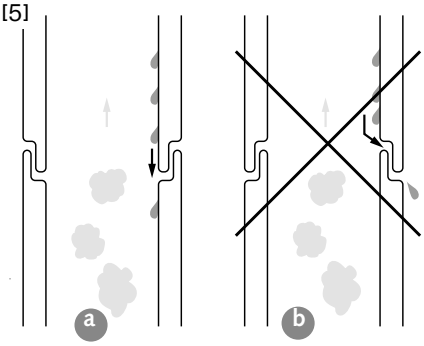
Warning!
If there is a false ceiling in your recess, this false ceiling must be sealed.
The entire area covered (floor, wall and ceiling of the recess) by the stove must be made of noncombustible materials.

4.2. Connection to the smoke flue

[4]



[5]



⚠ Allow play of 2 mm/m for expansion of the flue.
Calculation for the height of the connection duct

The following must be added to the height which separates the Stûv from the ceiling connection:

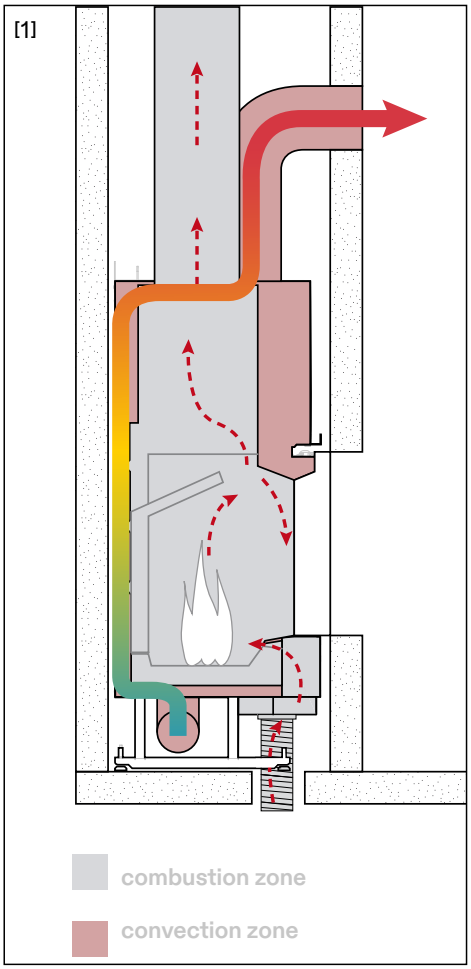
- approximately 60 mm for the part of the flue recessed into the ceiling.
- for the recessing of the flue at the stove, add 15 mm for a flue that is 2 mm thick and 35 mm for a stainless steel flue that is 0.8 mm thick.

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 2/a) rather than the smoke (diagram 2/b).

5. Circulation of convection air

5.1. Natural or forced convection?

[1]



Natural convection is sufficient in most cases (diagram 1).

This configuration obviously allows easier (no electrical connection) and less expensive installation and ensures completely silent operation.

However, a fan unit:

- enables the amount of air to be increased and for it to be distributed further: this is vital if you set up an air circuit with longs lengths of ducting,
- allows the temperature to be made constant more quickly in the space to be heated,
- enables the air temperature to be reduced in the outlet vents (therefore preventing combustion of the ash and the depositing of ash on the surrounding plasterwork),Air passage

Hot air is more voluminous than cool air. To facilitate the abstraction of hot air, more air outlets to the stove than inlets are required.

Therefore, if you open two air inlet holes in the base of the stove, you have to open three in the outlet.

In France : minimum of 400 cm² for the inlet and 500 cm² for the outlet.

⚠ **In all cases, the air outlet of the unit must have a minimum area of 330 cm²!**

Other regulations to be observed:

$$\frac{\textbf{air inlet section}}{\textbf{air outlet section}} \geq \textbf{2/3}$$

These air sections must correspond to the vents opened on the system.

⚠ Please note that if the exhaust outlets are too numerous or unbalanced, some of them can start drawing air in instead of expelling it. Examples in the table below.

Configuration of the ducts

If you do not install a fan, ducts are not mandatory. However, please note that a fibrous insulating material inserted in the recess can give off volatile particles. In this case, thanks to the ducts, any contact between the convection air and these materials can be avoided.

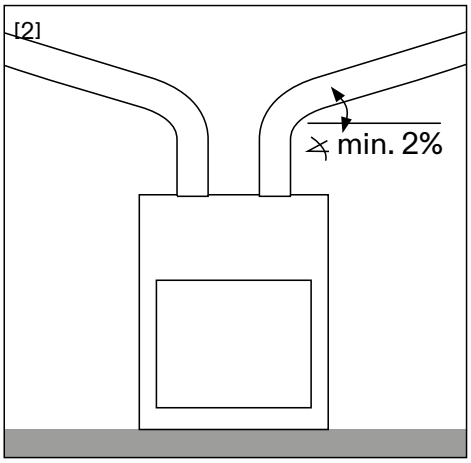
Whether you install a fan or not, the ducts must rise in a gradual gradient (min 2%) towards the outlet to prevent heat traps (diagram 2).

To ensure balanced air flow, the duct system has to be configured symmetrically (number of ducts, their height, the number of bends, their degree of insulation). This factor is even more important with natural convection than forced convection.

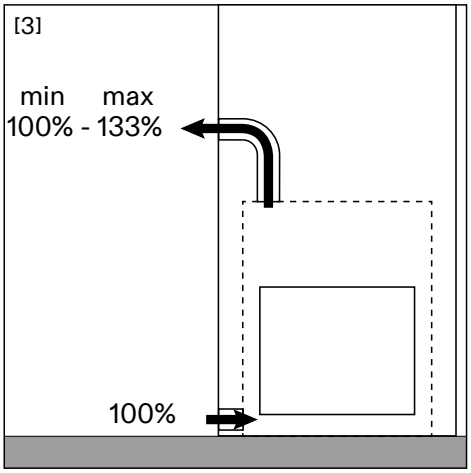
In practice...

- The ducts have a diameter of 150 cm.
- The air inlets and outlets have to be set up so they cannot be obstructed.
- If you install grills on the air inlets/outlets, ensure that the passage of useful air in these grills (surface of the openings) is at least equivalent to the section of the air inlets/outlets to prevent pressure loss.

[2]



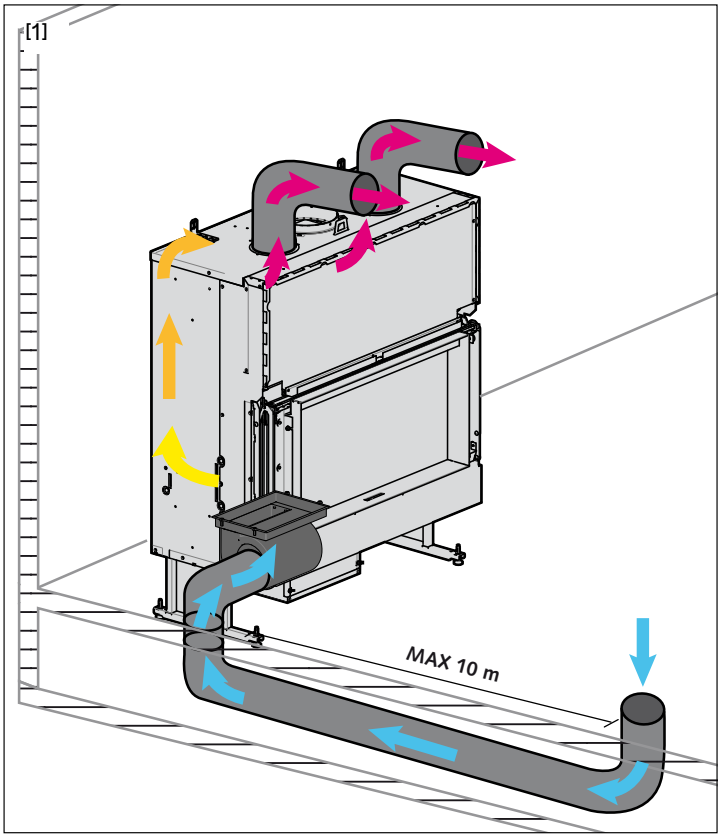
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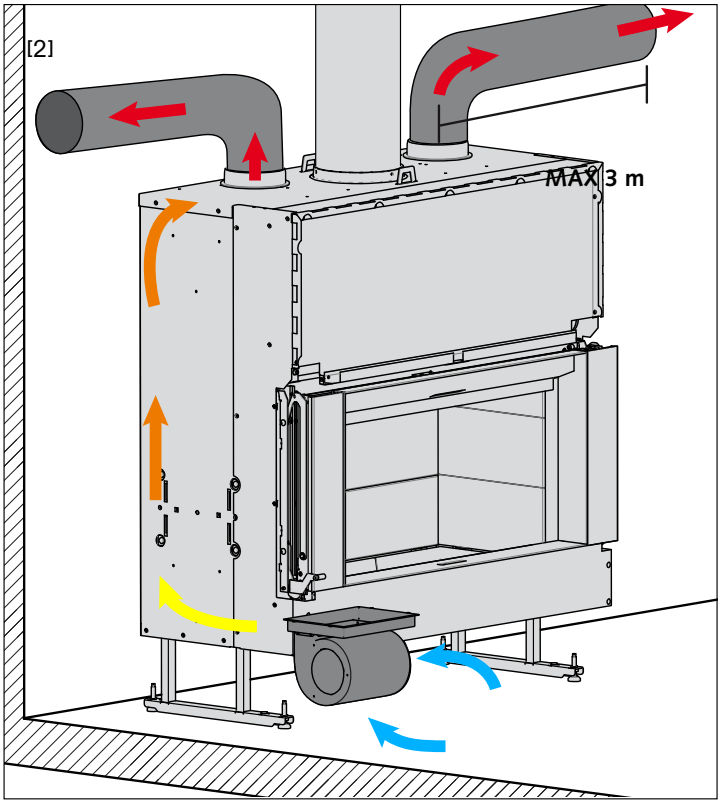


air inlet section	air outlet section	air inlet section / air outlet section	number of vents to open on the fireplace
330 cm²	330 cm²	1 ≥ 2/3 OK	2 inlets / 2 outlets
330 cm²	600 cm²	~~1/2 < 2/3~~	⚠ **Unbalanced airflow!**
330 cm²	500 cm²	2/3 ≥ 2/3 OK	2 inlets / 4 outlets

5.2. Forced convection set up

5.2.1. Inlet or outlet ducts installation





The fans supplied by Stûv are designed to direct room air and not to be installed in the hot air circuit at the stove's outlet.

2 ways of creating an air circuit:

- install ducts in the stove's inlet to draw in room air distant from the stove (diagram 1) or even from another room in the house. For this configuration, it is imperative to use a fan in a water-tight case
- install the ducts in the stove's outlet to carry hot air further (max. 3 m) even to an adjacent room (diagram 2).

In both cases, a circulation of air is created: The air reheated by the stove moves towards the areas from where the room air was drawn (depression zone), ensuring a constant temperature.

Whatever the air circuit planned around the stove, please note the local and national regulations in force for this kind of installation.

Air return

If you plan to have a room air inlet or outlet in another room (distribution across several rooms), do not forget to create air passages of sufficient section (at least the same) for the return: The air which has been drawn from or directed to a room must be able to return there.

The abstraction of air must be offset by a return to prevent depressions in the room where the stove is situated as this involves the risk of draughtback.

The advantages and disadvantages of these 2 types of installation

Outlet ducts	Inlet ducts
+ easier to implement if not planned for in the architecture or in the case of renovation	+ Slight positive pressure near the system promotes efficient air intake.
– depression near the stove that risks affecting the drawing of air	+ Bends, reverse gradients, ... may be used in the ducts, provided that air can flow freely without stagnation.
– geometry of the layout restricted: the ducts must always rise in a slight gradient without any obstructions in the route to prevent the hot air from stagnating.	+ no variation in room air temperature on its route which means it can be obtained from further away improving direction and ensuring more consistent room temperature.
– significant drop in the air temperature along its route (maximum 3 m).	– difficult to implement if not planned in the architecture

5.2.2. In practice

In forced convection, the use of ducts is compulsory so that the air exits the stove and does not immediately enter into the fan (which would disrupt the air circuit within the cladding).

Setting up the power supply (2 conductors + ground) and the fan controls; the connection has to be protected by a bipolar fuse.

Please also see the notes in the previous section.

Please note

To prevent the fan from affecting combustion, do not put the combustion air inlet and the convection air inlet too close to one another.

The advantages of using a fan box.

Installing an air unit makes it possible to channel the air.

The advantages of this are as follows:

1. It avoids agitating the dust in the recess.

2. It avoids creating negative pressure in the recess.

6. Insulating the insert : pros & cons

Precautions and thermal insulation

Take the necessary precautions to prevent excessive heating of the recess walls and construction materials close to the stove (e.g. wooden beams) and insulate these materials according to industry regulations and the applicable standards depending on their flammability.

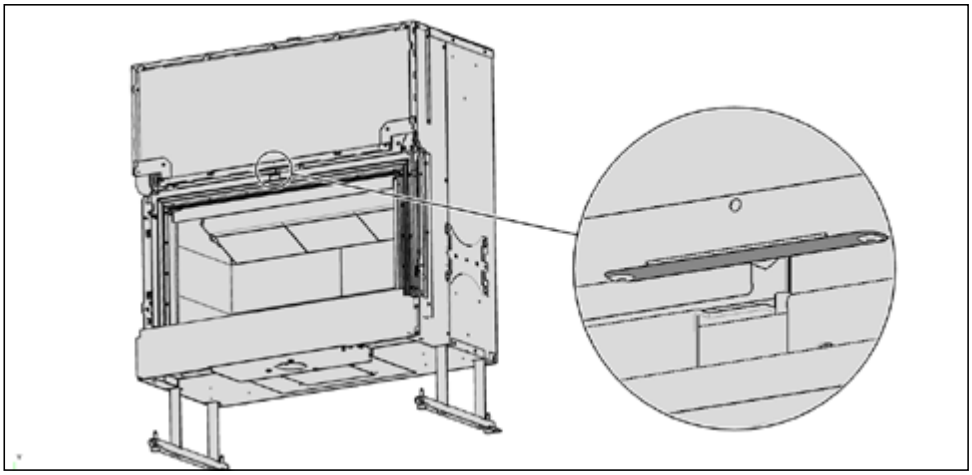
Improvement of performance

Thermal insulating materials can also be placed against the stove to improve its performance — especially when the stove is installed against an external wall. If installed against an internal wall, heat will instead transfer through the masonry and help warm adjacent rooms (reduction of heat loss).

Note: When using fibre insulation (such as mineral wool), the recess must be sealed and equipped with ducts for the convection circuit to prevent insulation fibres from being released into the air.

Installation

1. On taking delivery of the equipment

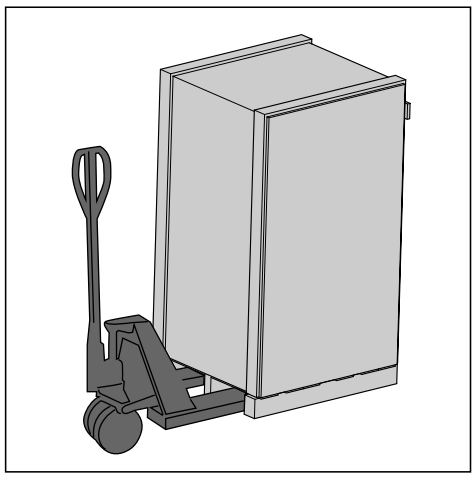


IMPORTANT!
Signing the delivery forms signifies that you accept the product and acknowledge that the merchandise is compliant with the merchandise ordered. It is therefore very important to check the integrity of the merchandise on delivery.
Complaints

If you need to make a complaint, always indicate the serial number visible on the stove (diagrams 1 & 2).



2. Unpacking

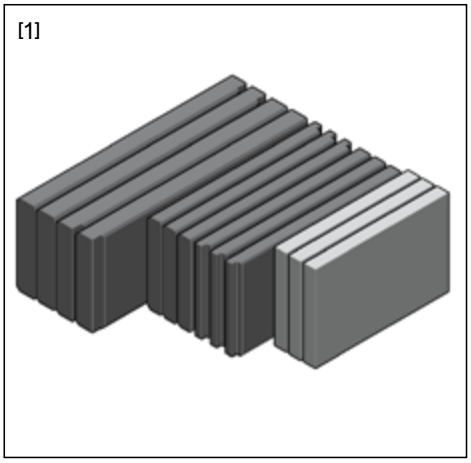


Warning!

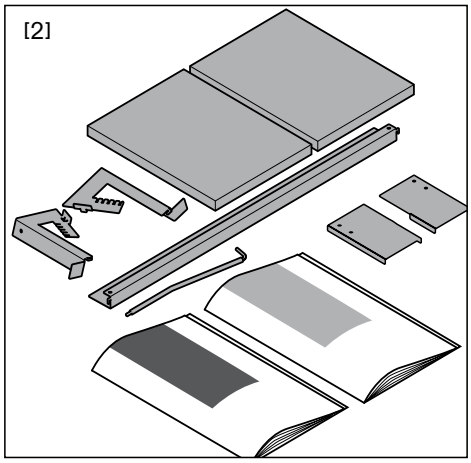
The paintwork is relatively fragile, so handle the appliance with care when installing it.

3. Checking the contents

[1]



[2]



You will find on its own package:

– Fireproof and vermiculite bricks which line the combustion chamber

	Back fireproof bricks	Side fireproof bricks	Deflector vermiculite bricks
22/70	6	8	1
22/90	6	8	2
22/110	4	6	3

You will find a box in the stove, containing:
- The bracket for the sloping vermiculite bricks (diagram 2a and 2b)
- Sloping deflectors (diagram 2c)
- The instructions (diagram 2d)
- The cold grip (diagram 2e)
- The assembly template (diagram 2f)
- A bag of accessories containing:

- Screw and nut to adjust the air inlet (refer to the chapter on setting the air inlet)
- two bolt fittings (refer to the chapter on positioning the door frame)
- fastening screws for the legs
- fastening screws for the smoke outlet-fastening screws and washers for the air box fittings.

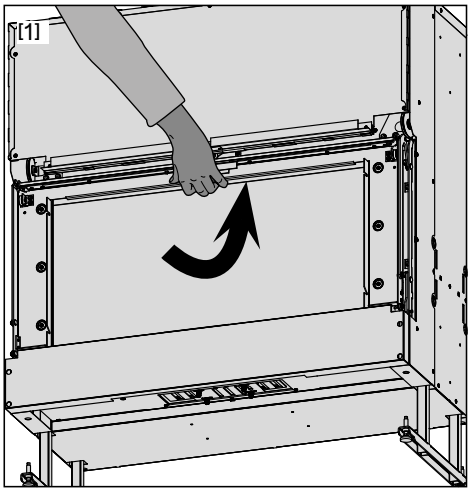
– a pair of white gloves.

If accessories have been ordered (frame, ventilator...) they are placed around the fireplace or its packaging. Please ensure due reception of all accessories ordered.

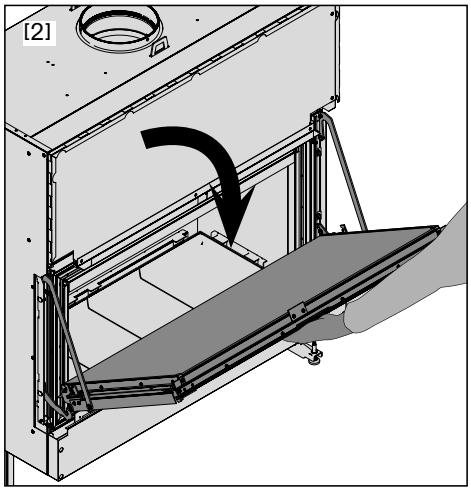
4. Positioning of the stove

4.1. Stove preparation : removing the door

[1]



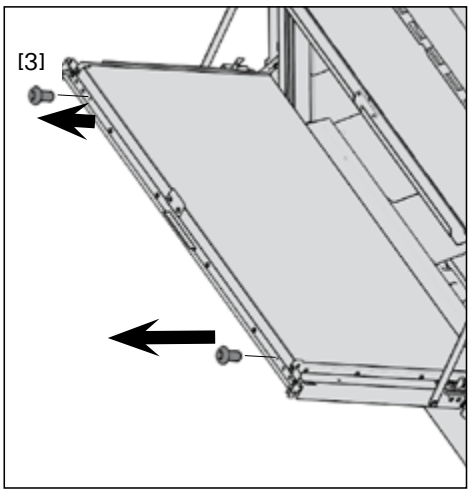
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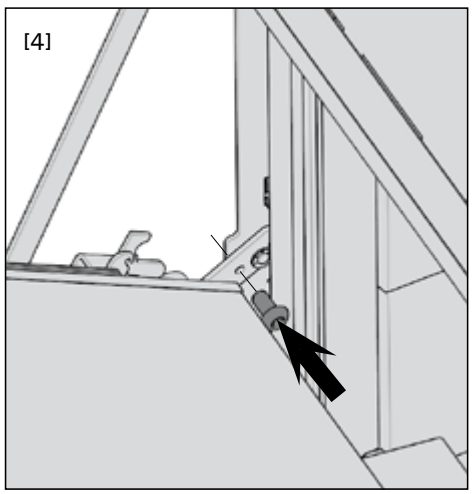
To make it easy to move the Stûv 22, we recommend that the device's door is uncoupled.

By doing this, you will lighten the weight of the device and avoid any damage to the glass.

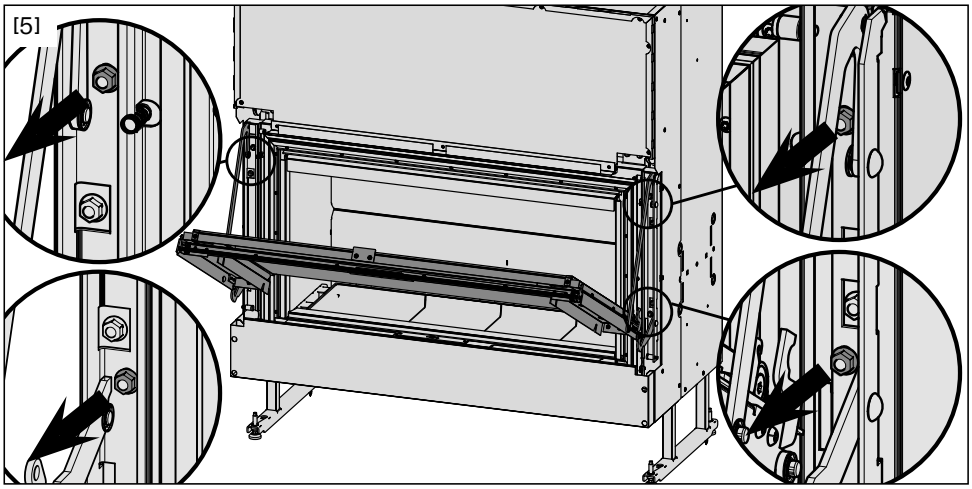
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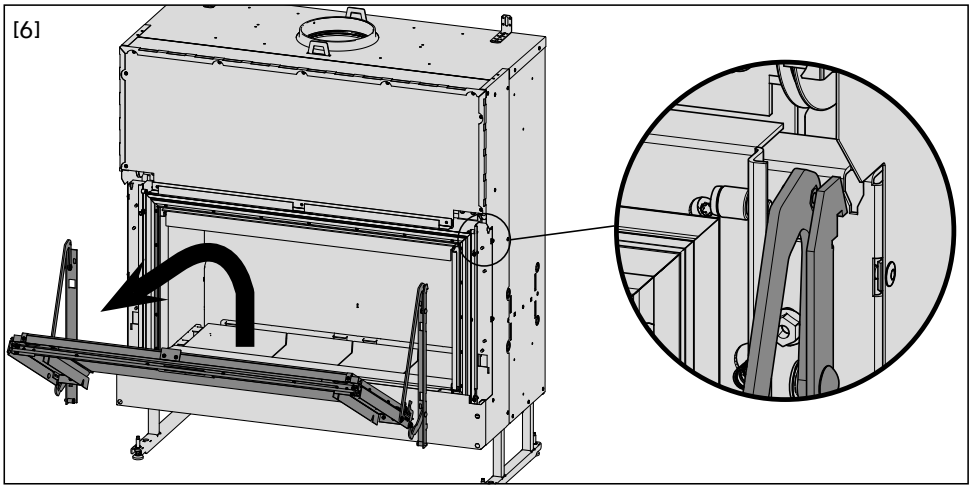
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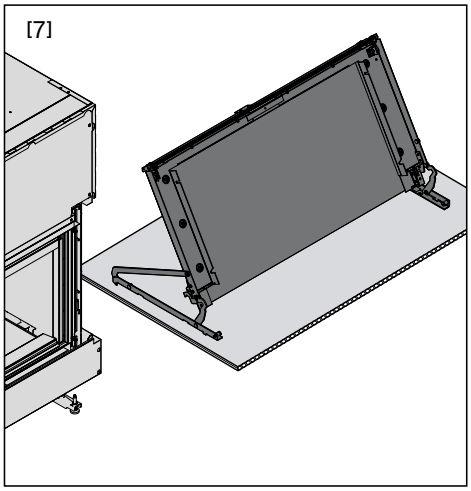
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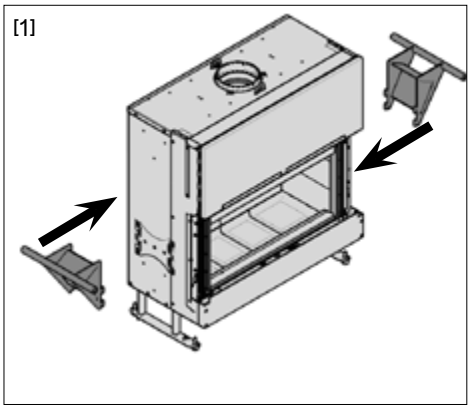


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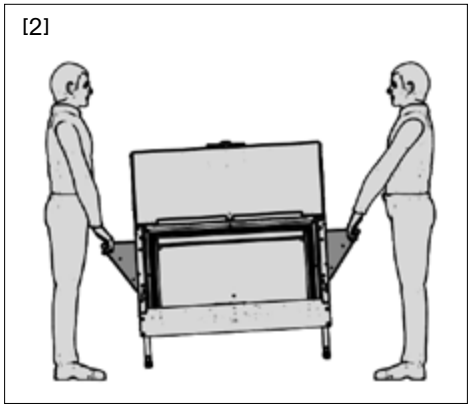


4.2. Guidelines for Ergonomic Handling

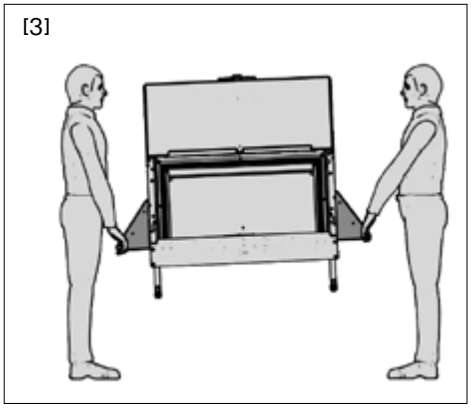
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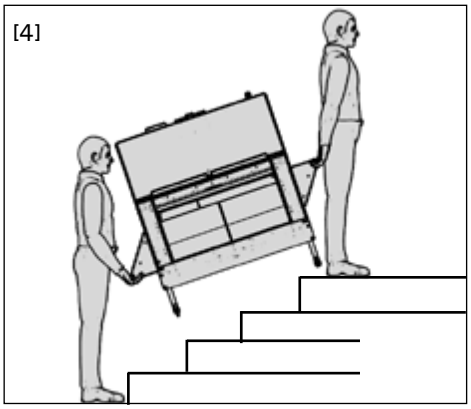
[2]



[3]



[4]



The stove can be moved :

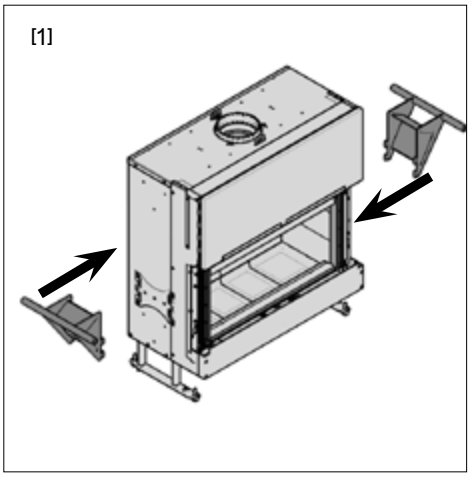
- with a pallet truck : leave it on its pallet,
- with purpose-built handles (diagram 1) ; they are reversible to allow handling in staircases for example (diagram 4).

4.3. Preparation of the ducts

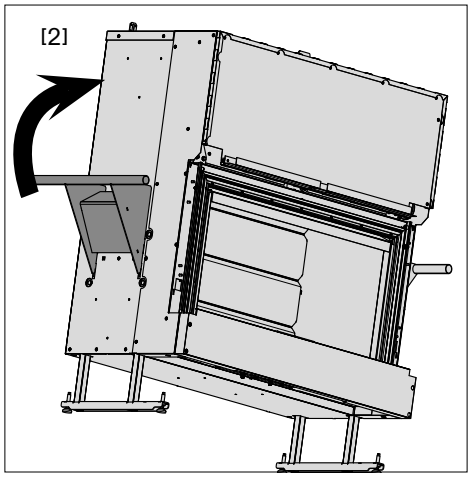
- **Intake of air for combustion**
  If you have selected this option, install the combustion air inlet duct.
- **Convection air**
  If necessary, prepare the ducts for the hot air outlet.
- **Grills**
  The air inlet and outlet grids should be positioned in such a way that they cannot become blocked.

4.4. Positioning of the stove

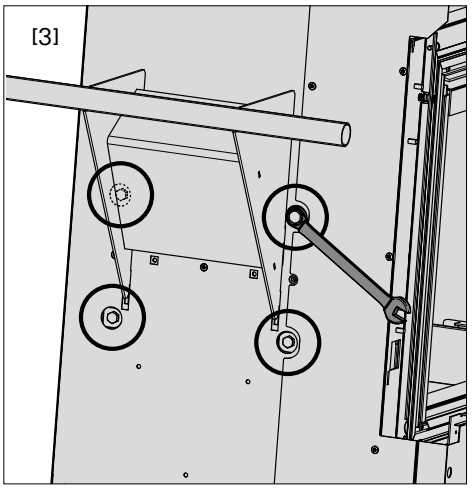
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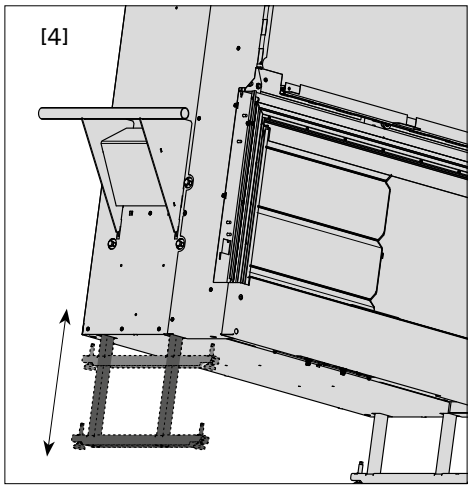
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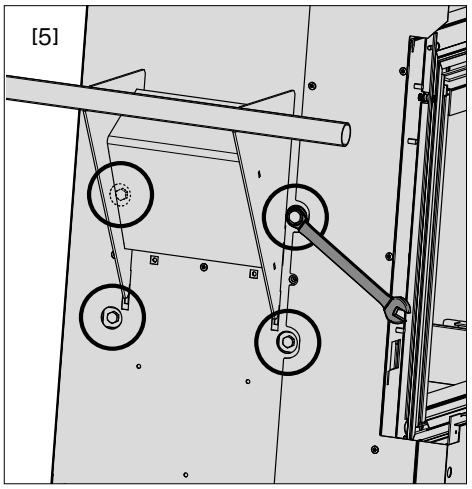
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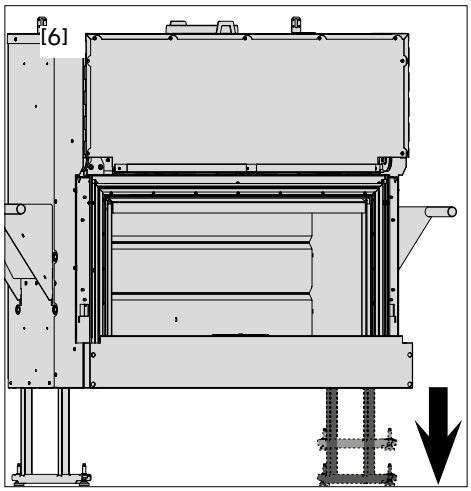
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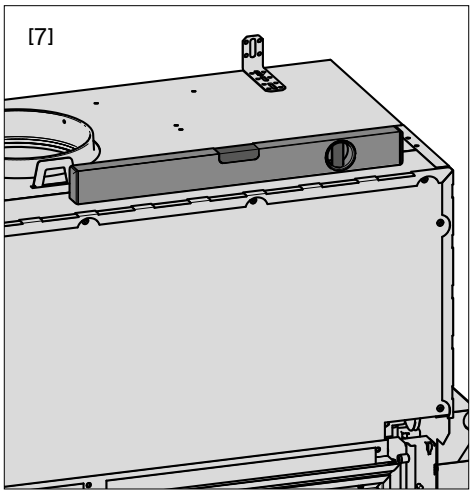
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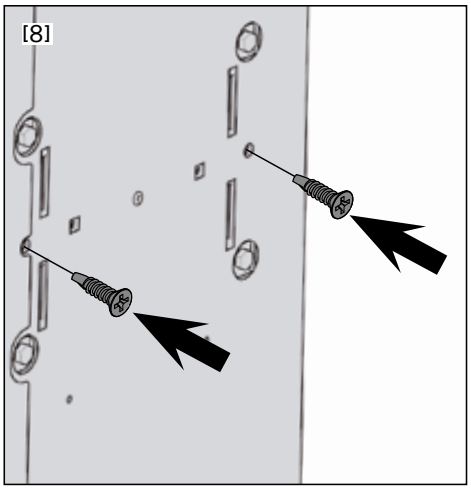


Positioning the stove high up

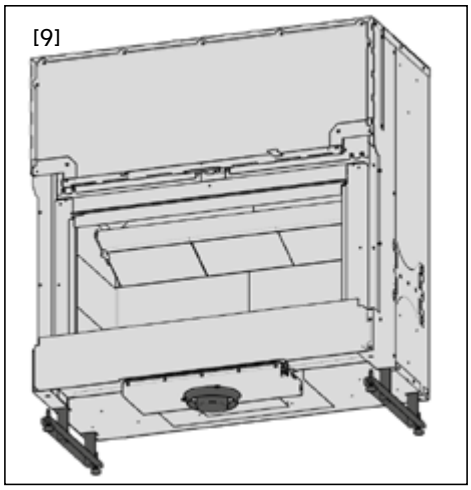
It advisable that two people change the height of the device.
The first person will raise the device while the second will loosen and tighten the bolts that hold the feet.
To do so, please proceed this way:

- Raise the device.
- Using a spanner, loosen the 4 clamping bolts (diagram 3).
- Push the foot in or pull it out in order to obtain the desired height (diagram 4).
- Tighten the 4 bolts in order to maintain the position of the foot (diagram 5).
- Repeat these operations for the second foot.
- Check the level of the device on its top part (diagram 7).
- Once the height is correct, place 2 self-tapping bolts on each side in the square holes provided for this purpose (diagram 8).

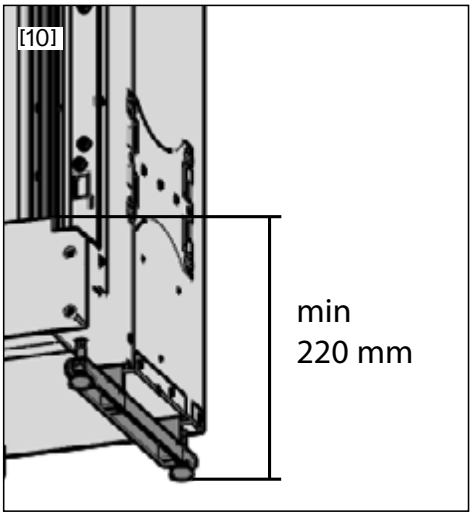
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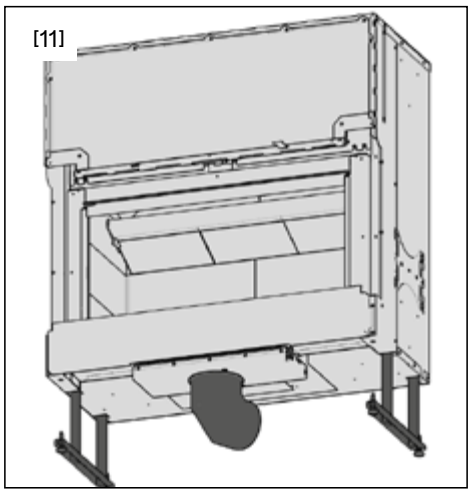
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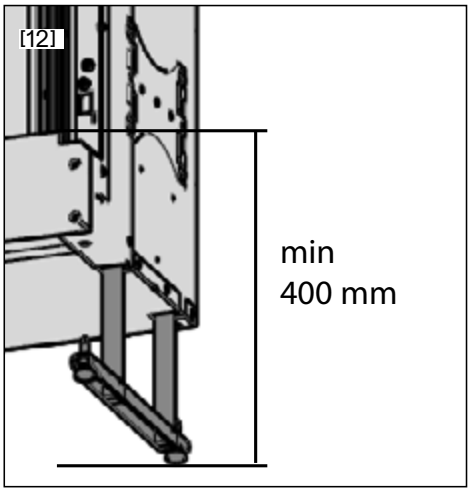
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[11]



[12]



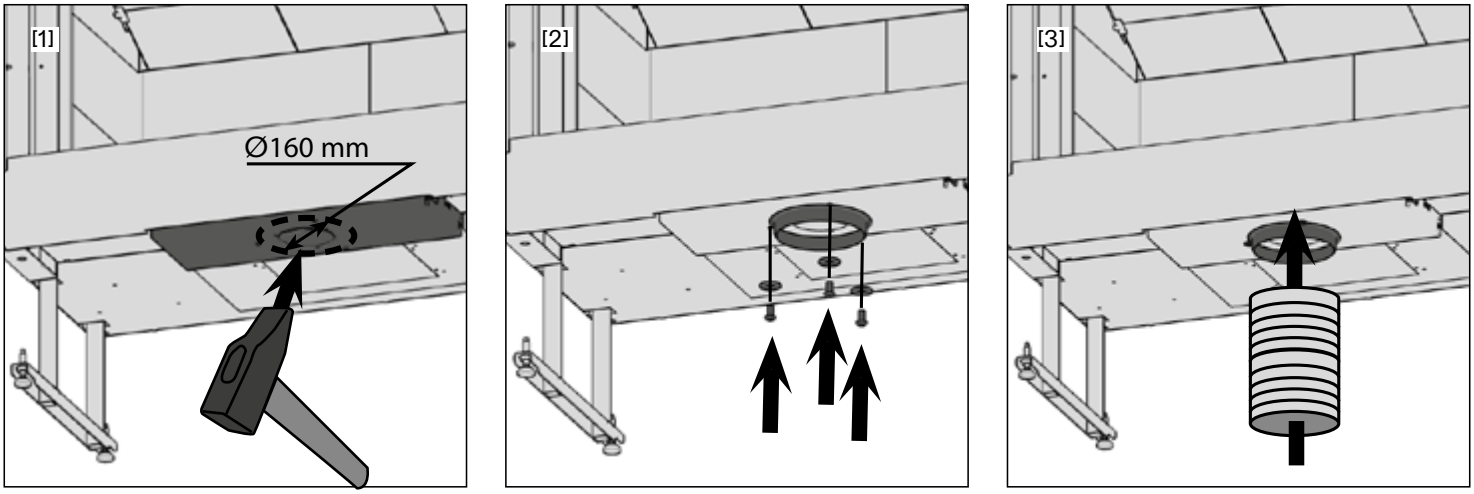
WARNING!
⚠ Make sure the device is not resting on the air box! It cannot bear the weight of the Stûv 22.

Between 220 and 400mm between the floor and the height of the housing, connect the air box to the Ø100 or Ø160mm nozzles.

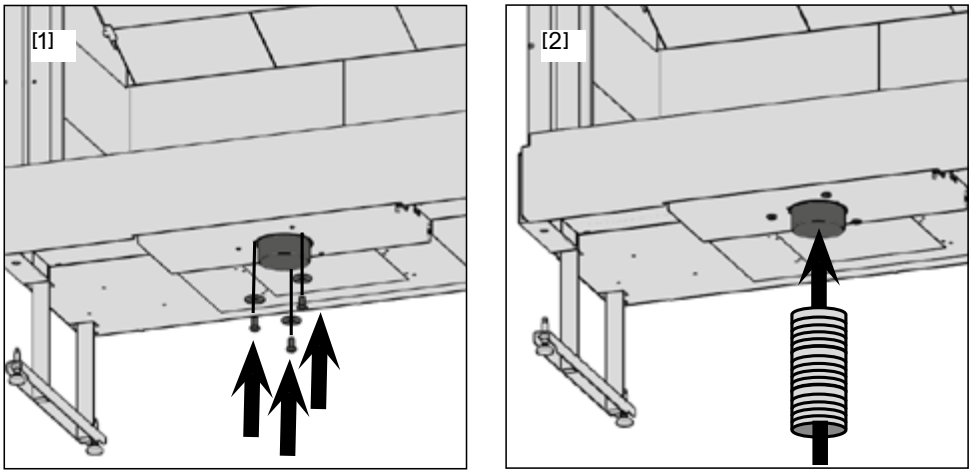
Over and above 400mm, you can connect the air box to the Ø160mm. bend.

4.5. Air box connection (optional)

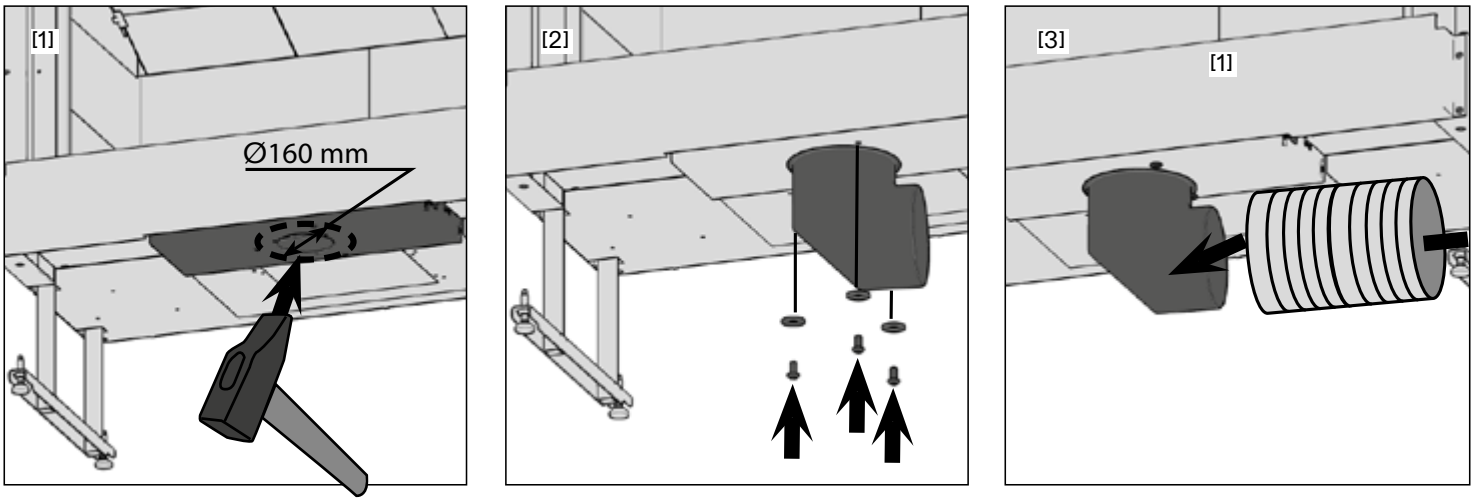
4.5.1. Vertical connection with Ø160mm nozzle



4.5.2. Vertical connection with Ø100mm nozzle

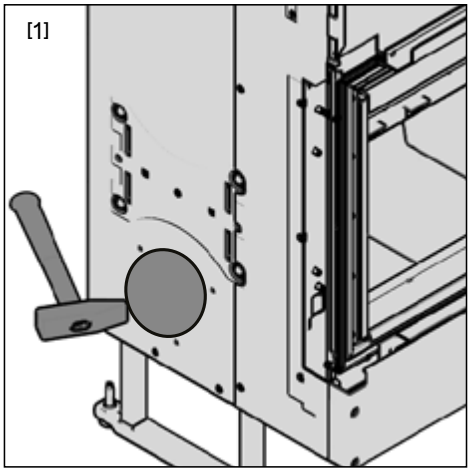


4.5.3. Horizontal connection with Ø160mm bend

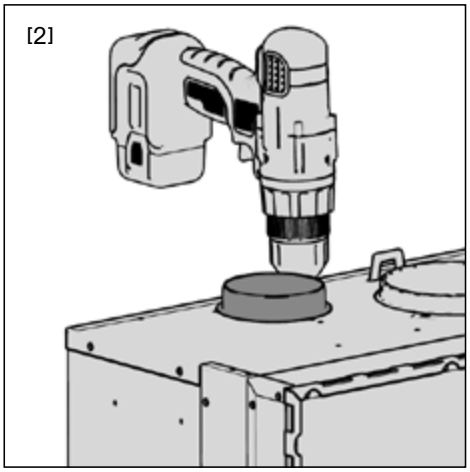


5. Convection

[1]



[2]



In general:

In order to get the best from your Stûv 22, we recommend that you use the maximum number of air inlets and outlets to encourage natural convection between the outer casing of the stove and the combustion chamber.

In practice:

- **For natural convection:**
  Using a hammer, free up 4 of the 6 pre-cut air intakes [diagram 1] and open 4 air outlets in the upper part.
- ⚠ **For an installation with forced convection: DO NOT OPEN ANYTHING!**

  If you are not installing a fan when the stove is installed but you anticipate fitting one later: do not break the pre-cuts on the bottom of the appliance but break the pre-cut provided for fitting the fan (see section on auxiliary fan)!

In all cases, it is recommended to open at least 2 of the hot air outlets (1 on the left and 1 on the right).

Fitting ducts

Use the 10 mm socket driver to fix the optional nozzles (photo 2).

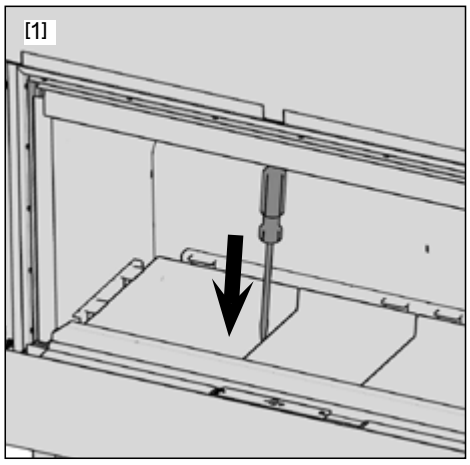
They provide a fixing base for a Ø150 mm flexible tube connection. This tubing will direct hot air straight from the hearth to an adjacent room without carrying any dust that could be in suspension between the masonry and the hearth.

Please note

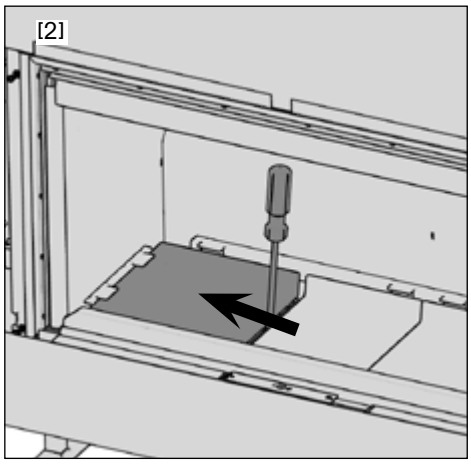
The air inlet and outlet grills have to be positioned in such a way that they cannot be obstructed.

6. Auxilliary ventilation

[1]



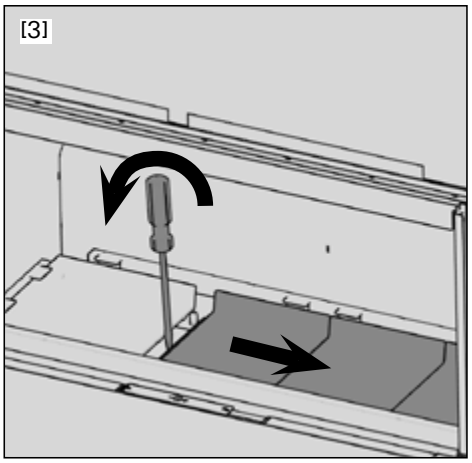
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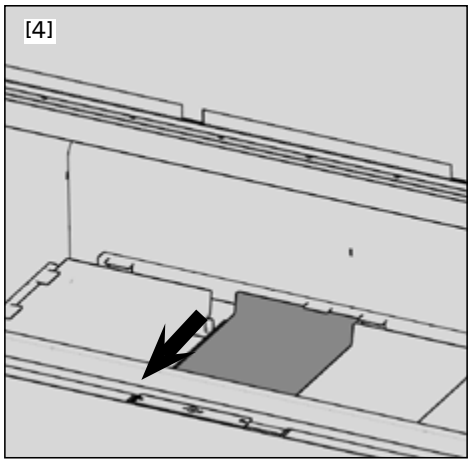
If you intend to use auxiliary ventilation, the unused air inlets for convection in the bottom part of the system must remain closed!

- Remove the cast-iron stove base plates.
- Push the cast-iron plate on the left to the left using a flat screwdriver and move the other plates away to the right.
- Push each of the plates to the back in order to be able to pivot them and take them out of the stove.

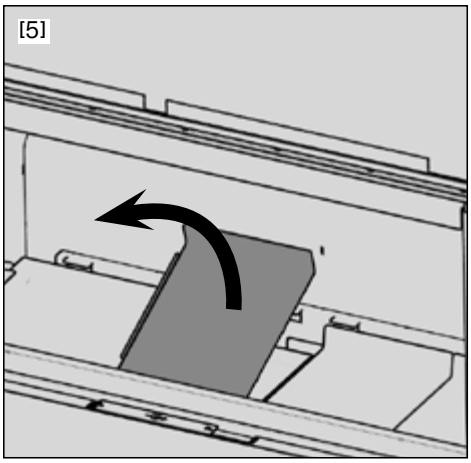
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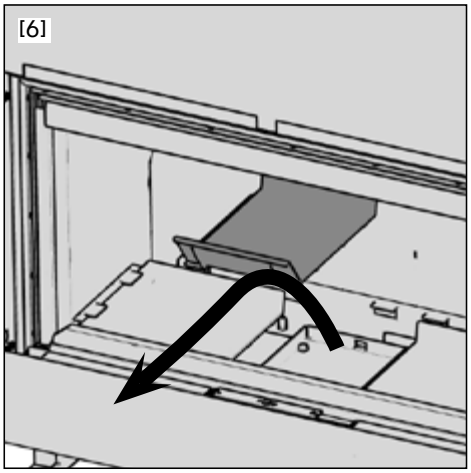
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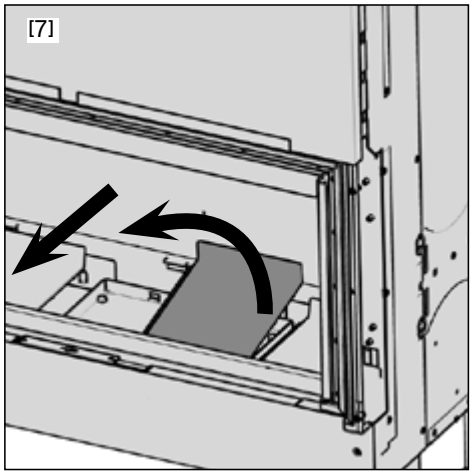
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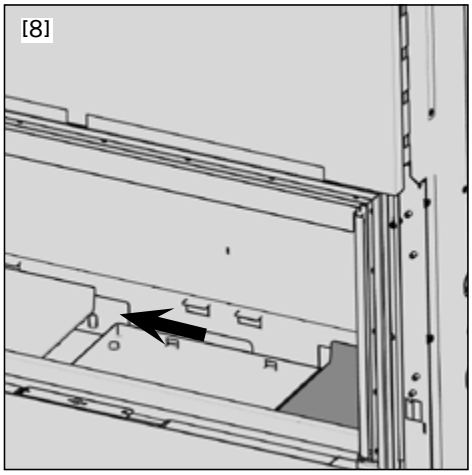
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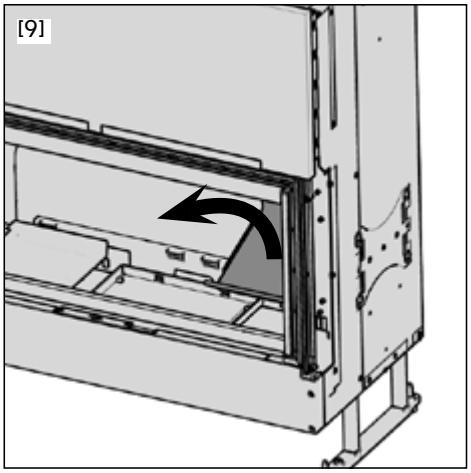
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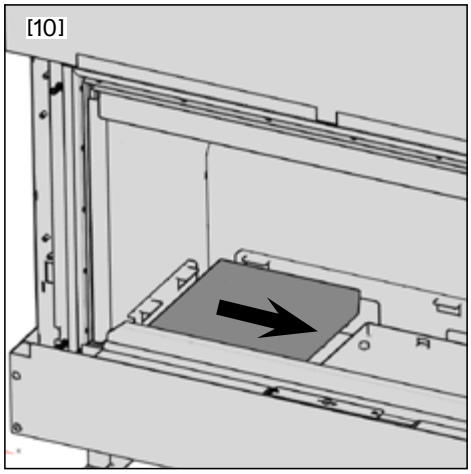
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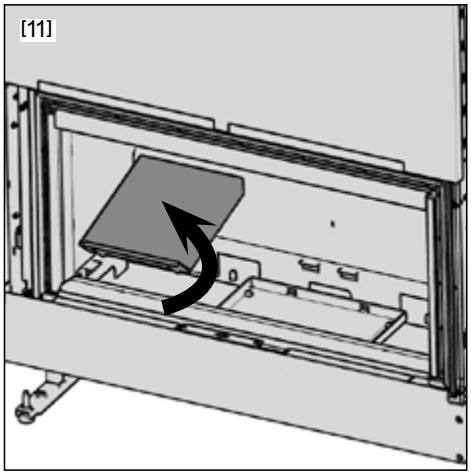
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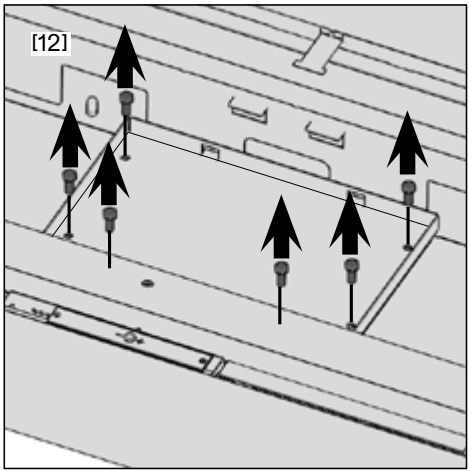
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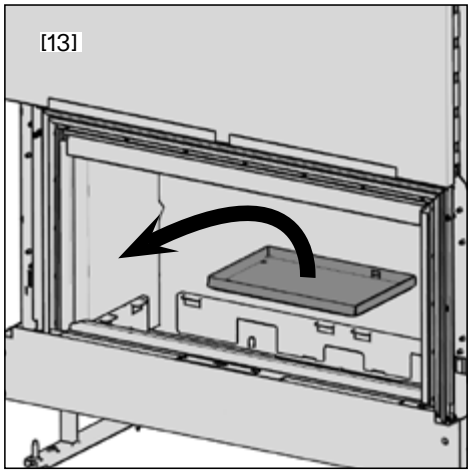
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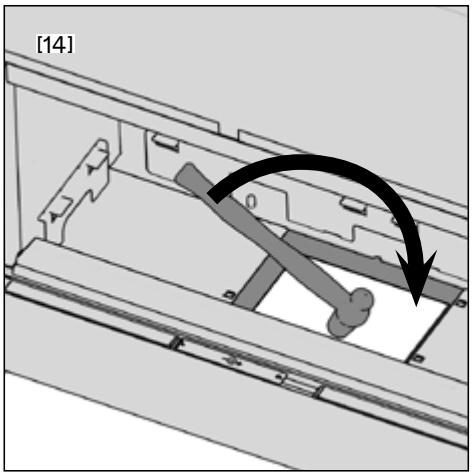
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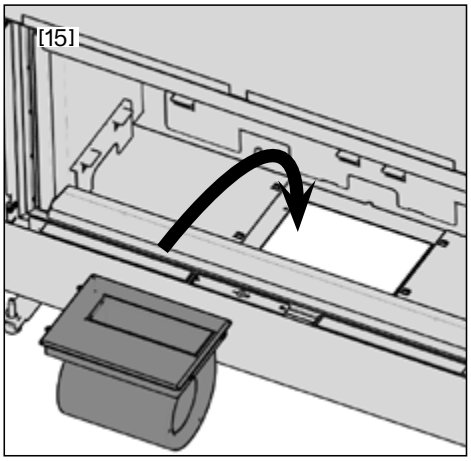


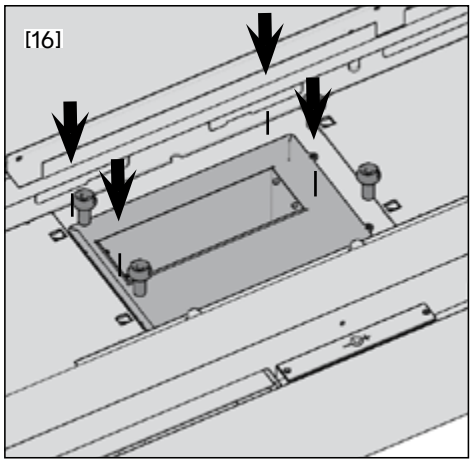
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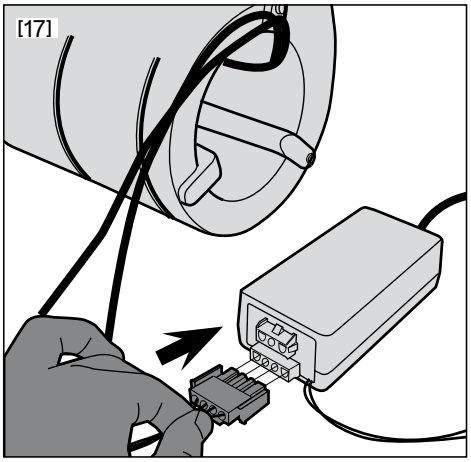


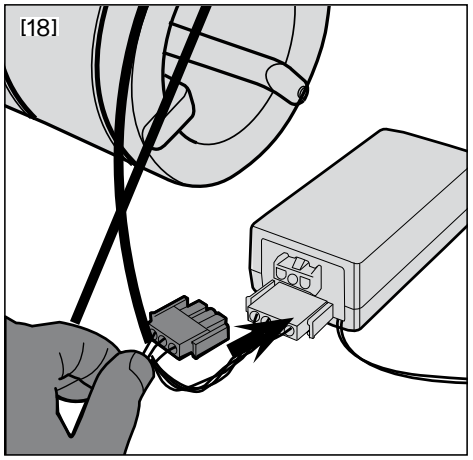
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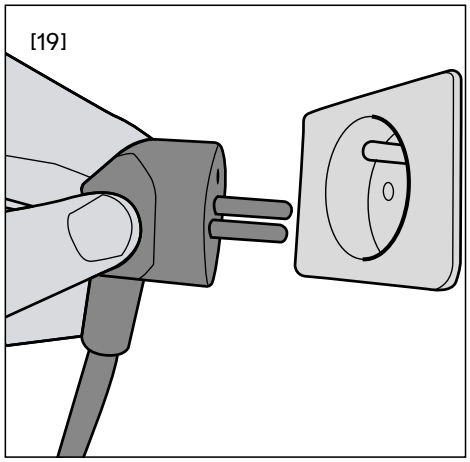


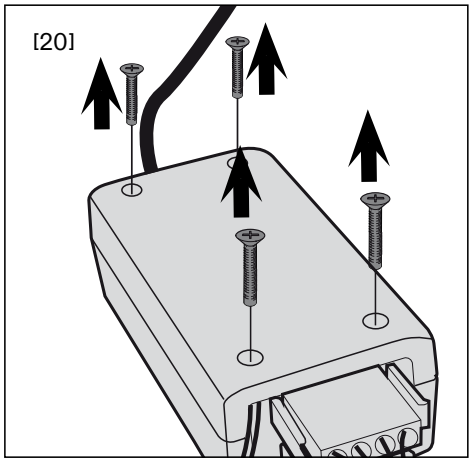












> Unscrew the hatch located at the back of the combustion chamber.

> Using a hammer, discard pre-cut plate to free opening for ventilator (photo 3).

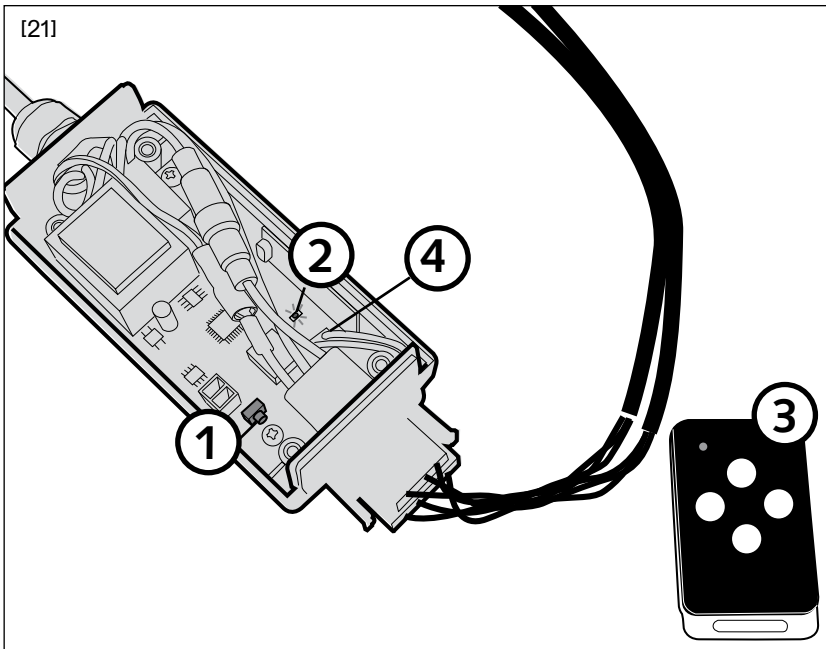
> Connect electrical supply (see below).

> Insert and fix ventilator unit (photo 5).

Maintenance is carried out from inside the combustion chamber.Check fuses are disconnected before any operation.

⚠ IMPORTANT!
Make sure that you position the various parts in such a way that makes access possible once the stove is installed and the recess closed. They must be located under the access hatch of the combustion chamber (inside the air unit, if necessary).

[21]



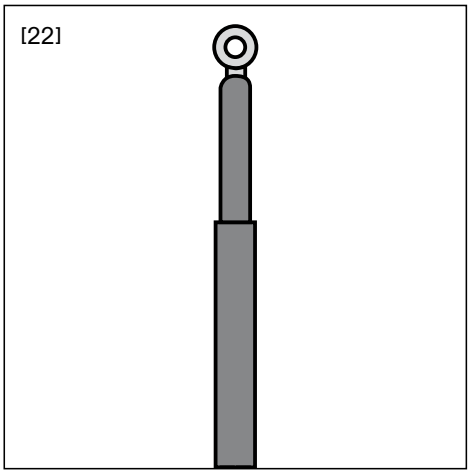
In order to pair up the remote control, open the case containing the electronic card (diagram 21)

- Press button 1.
- LED 2 should flash rapidly.
- Press any remote control button 3.
- LED 2 should flash more slowly. From now on, the transmitter and receiver recognise each other.
- Close the case.

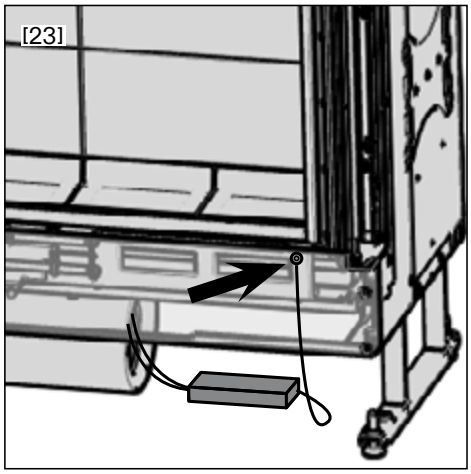
If you wish to use the fan without the sensor, ensure that the element 4 is detached.

The heat sensor is configured in the factory to activate the fan once the temperature exceeds 30° C. It is possible to increase this temperature, and to do this, please refer to the "configure temperature sensor" section.

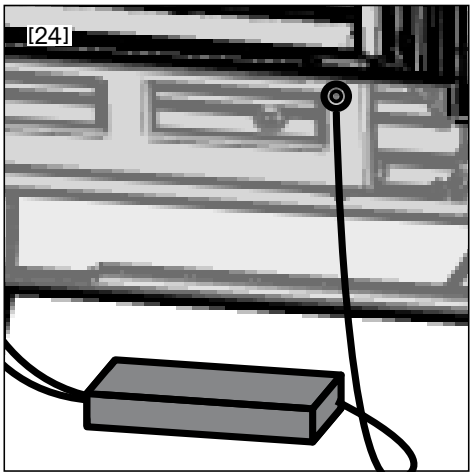
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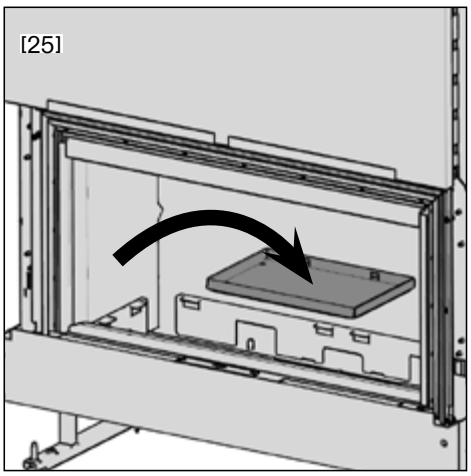
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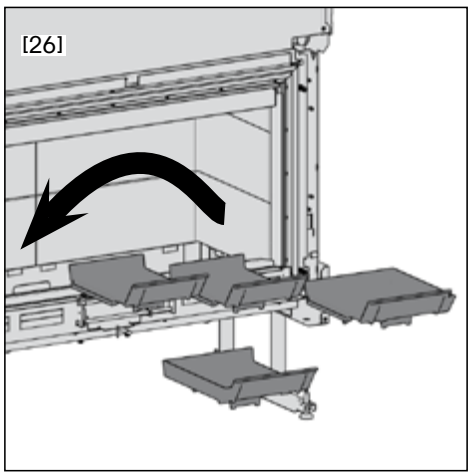
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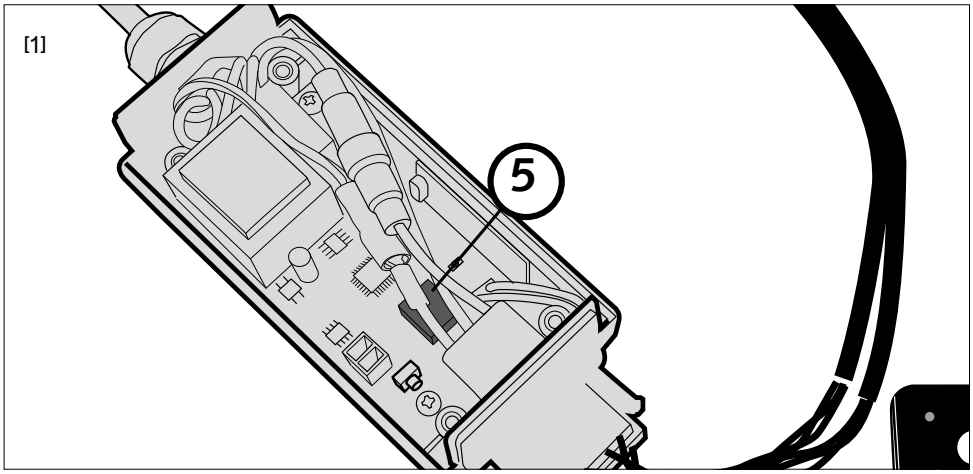


[26]



7. Configuration of the band temperatire sensor (option)

[1]

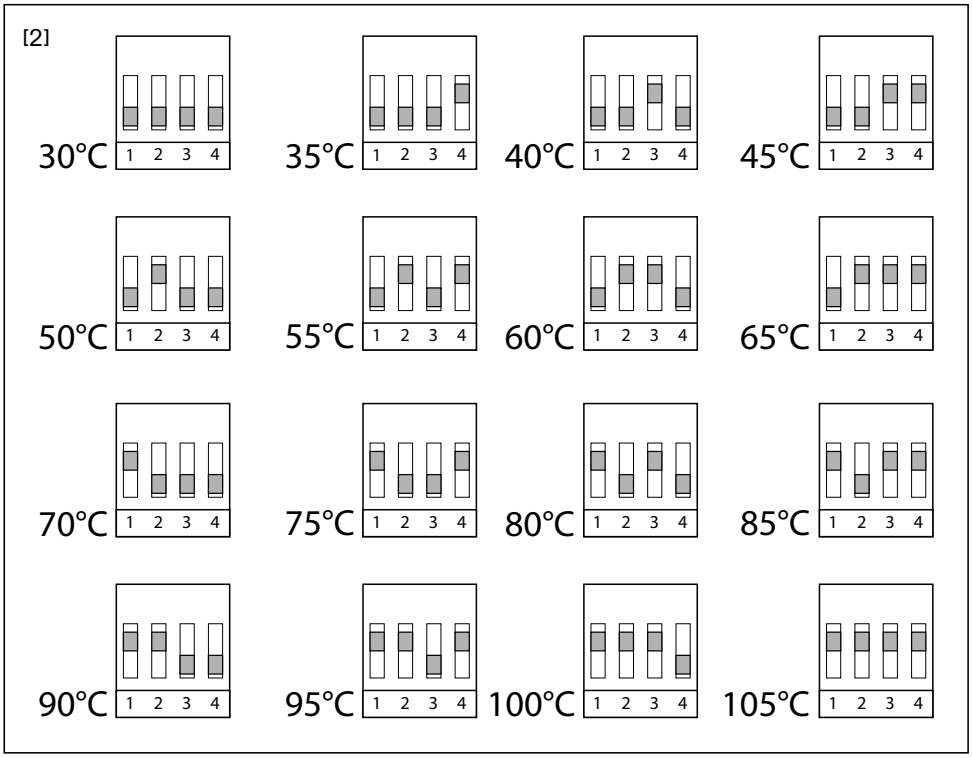


Reminder: The fan is fitted with a heat sensor. This sensor activates the fan once the temperature exceeds a predefined threshold and automatically turns the fan off when the temperature falls below this same value. This way, the fan cannot blow cold air into your room.

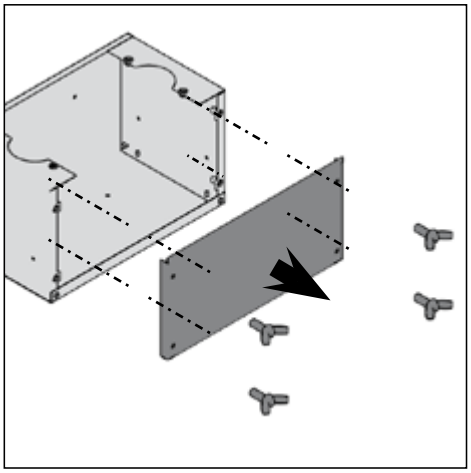
The factory settings set the activation temperature at 40°C.

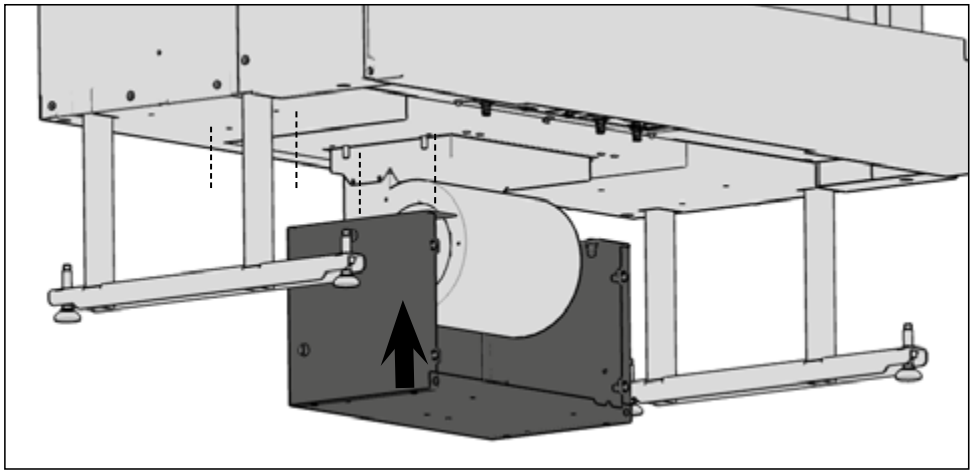
It is possible to increase this value. Refer to diagram 2 in order to adjust the DIPswitch (diagram 1 item 5) depending on the activation/deactivation temperature desired.

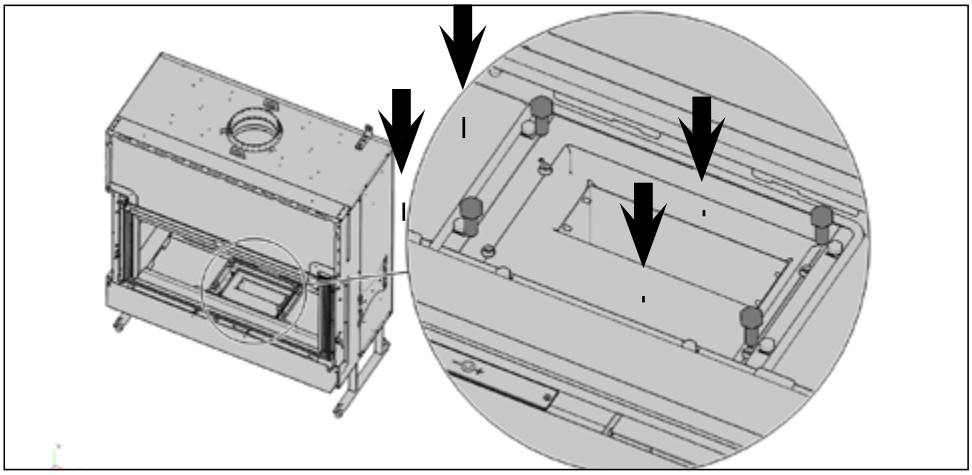
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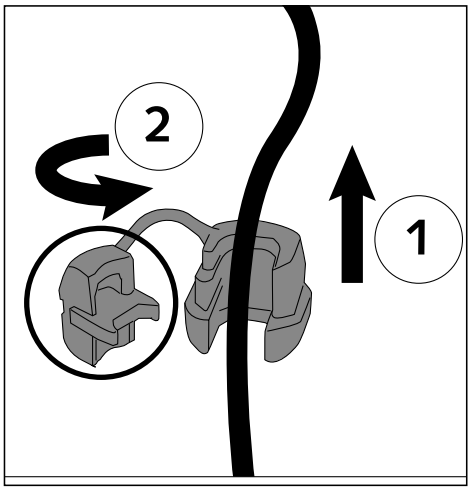


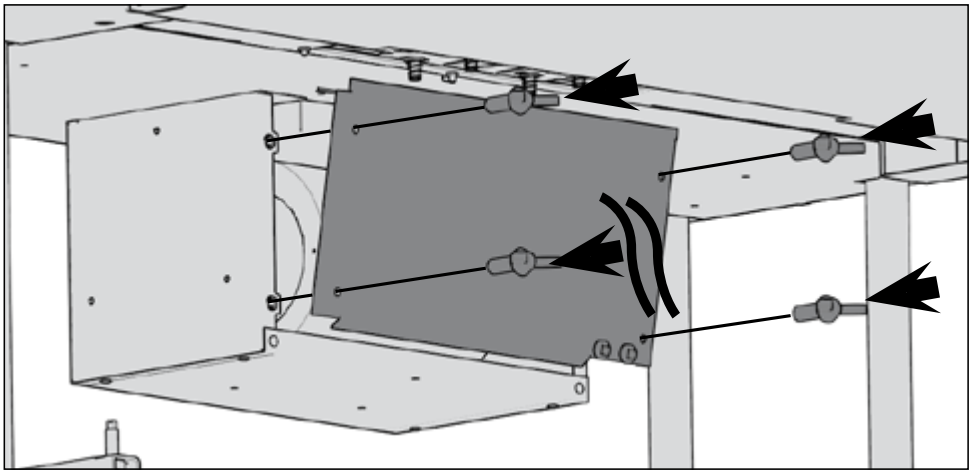
8. Fitting the fan housing (option)





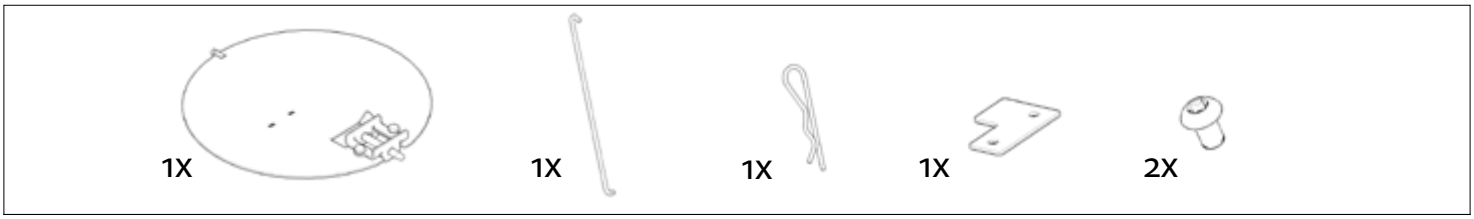


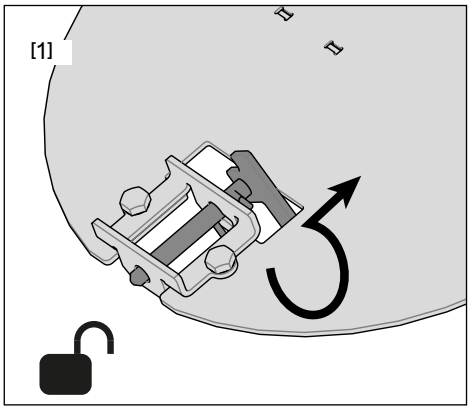


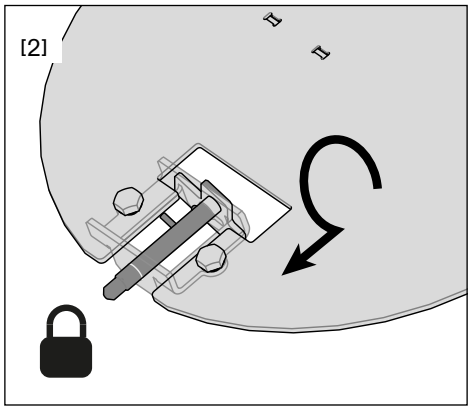


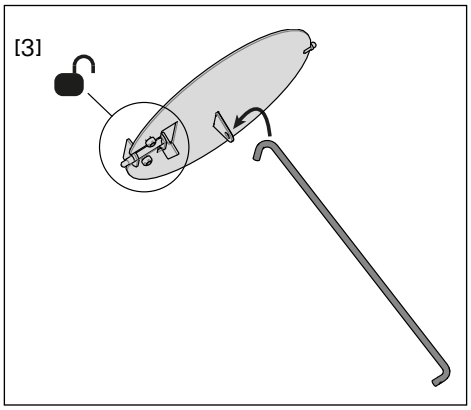
9. Assembling the smoke damper (option)

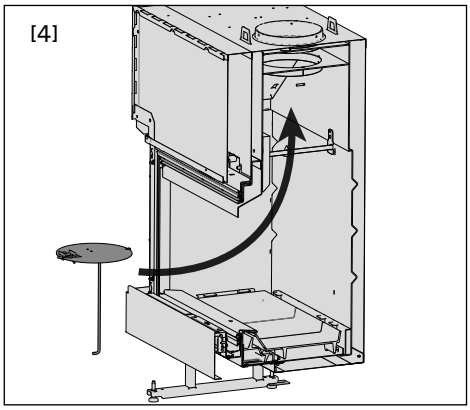
⚠ The smoke damper should be assembled before the combustion chamber is trimmed!

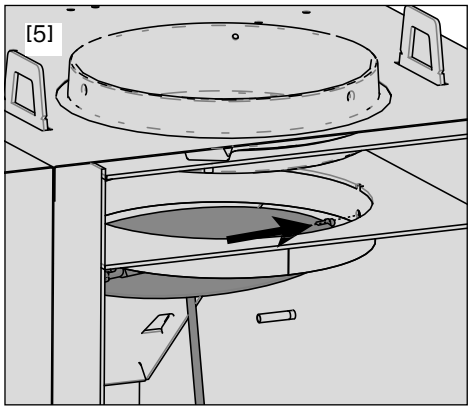


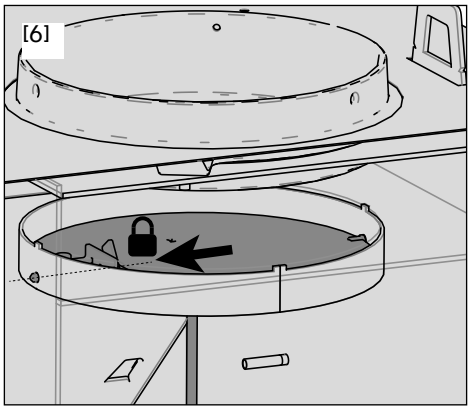


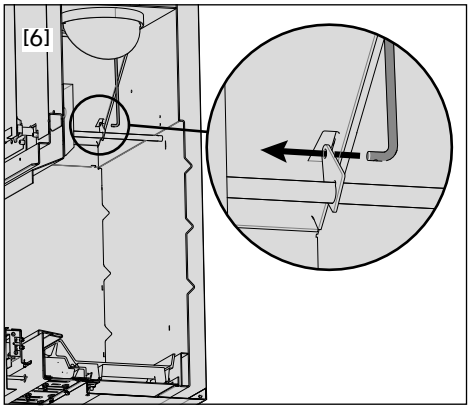


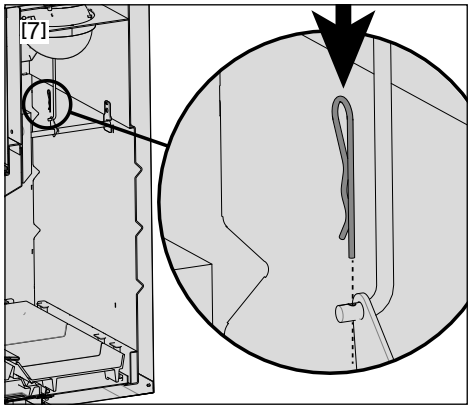


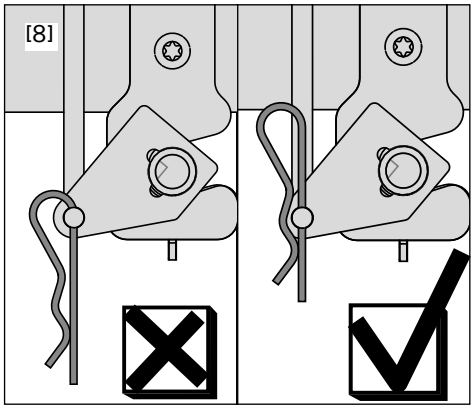












Open the latch built into the smoke damper and retract it into its housing (figure 1).

Insert the connecting rod into the hatch (figure 2).

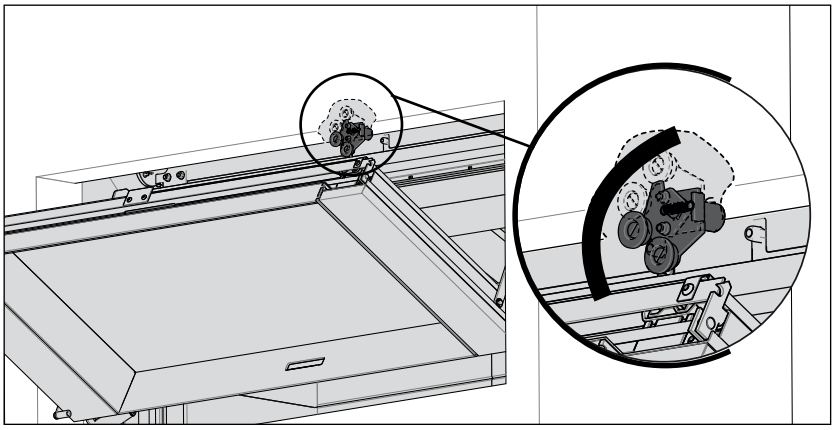
Place the damper in the upper crown of the combustion chamber. Start with the rear pin (Figure 4) and then the front pin, taking care to lock it in position (Figure 5).

Engage the lower part of the rod (Figure 6) to create the connection with the shaft of the flap drive.

Push the pin into position (figures 7 & 8).

⚠ At the end of the installation; check that the control is in the down position and verify that the mechanism works properly by operating the glass.

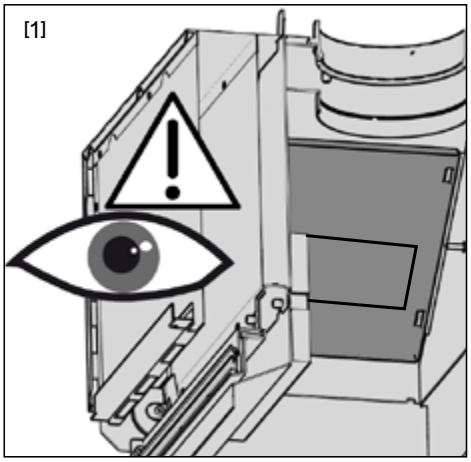
10. Checking the position of the damper control

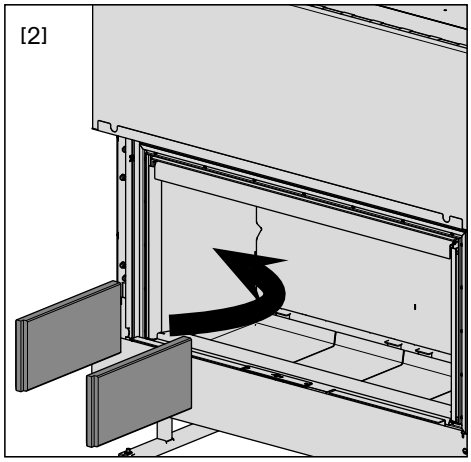


> After refitting the door; check that the control is correctly in the bottom position [figure 1]. If this is not the case, pivot the control then close the door and test whether the glass door can be opened.

⚠ **If the control is in the top position, it will not be possible to open the glass door!**

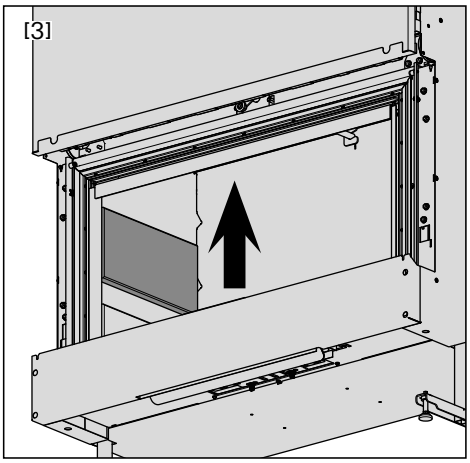
11. Lining the combustion chamber

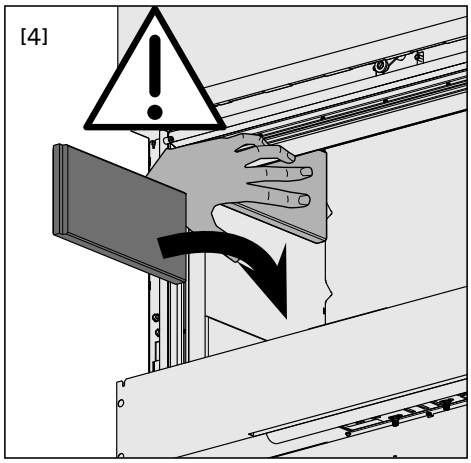


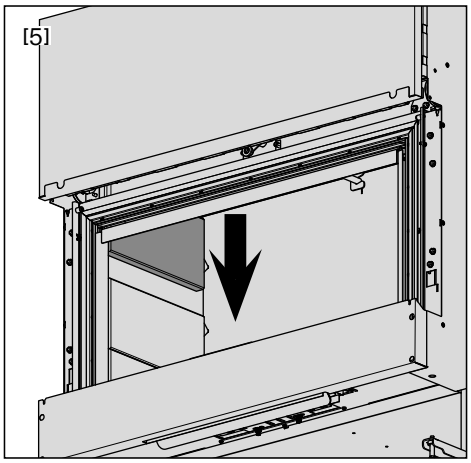


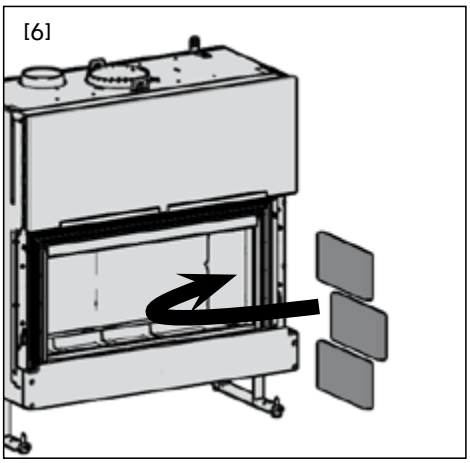
Warning!
Before lining the combustion chamber, ensure that the two sheet metal deflectors are correctly notched (diagram 1).

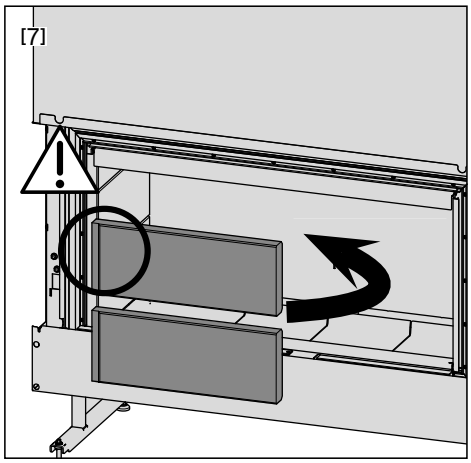
If you encounter drawing problems, it is possible to break the central pre-cut plate in order to create an air passage intended to improve the airflow. To do this, unhook the sheet metal deflectors, break the pre-cut plates using a hammer and replace the two deflectors.

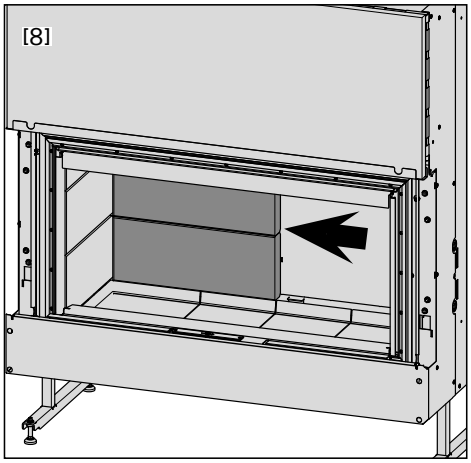


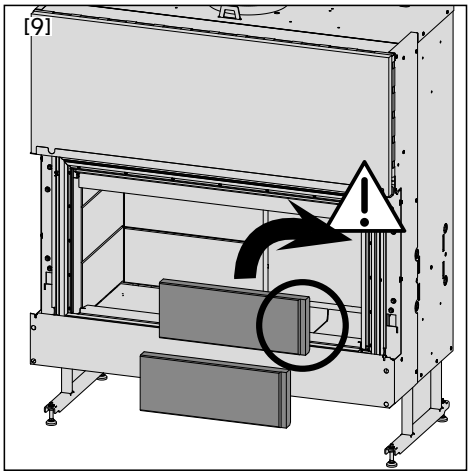


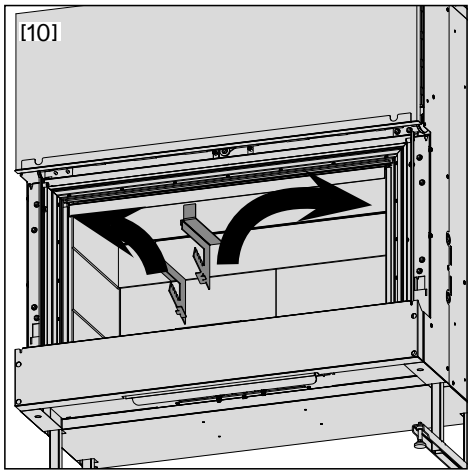




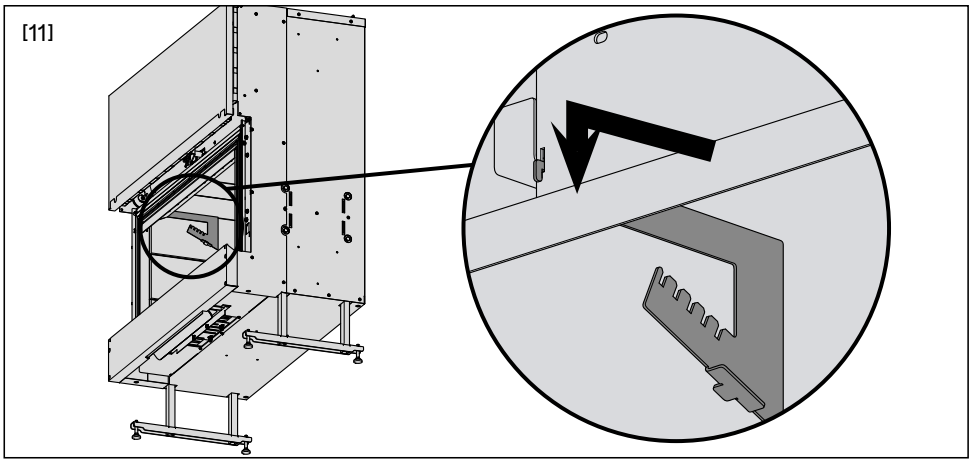








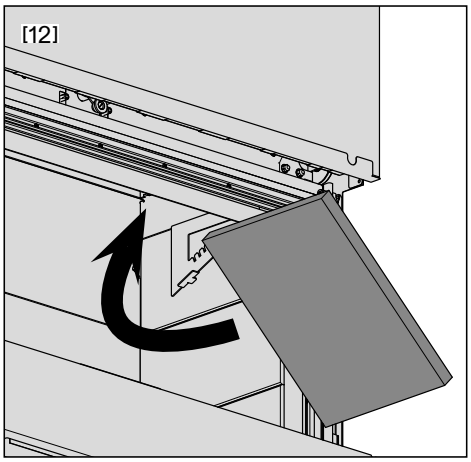
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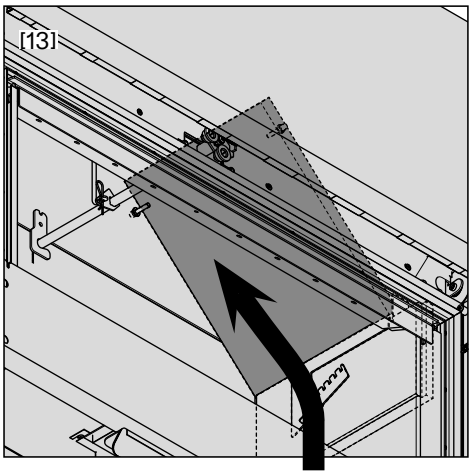
The horizontal vermiculite support [diagram 13] should be positioned on the tooth closest to the sloping vermiculite supports [diagram 14].

It is, however, possible to fit this support into the notches that are further away. This operation should be carried out in the case of a lazy chimney [diagram 15].
Warning!
Make sure you do things step-by-step.

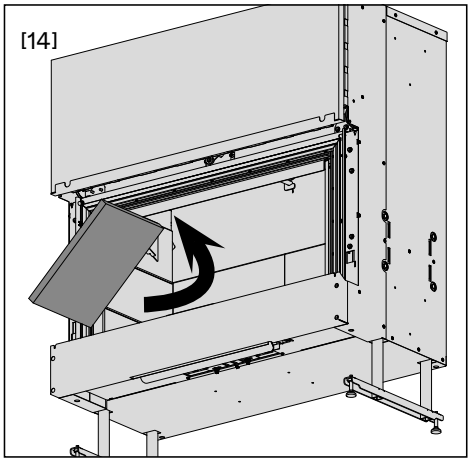
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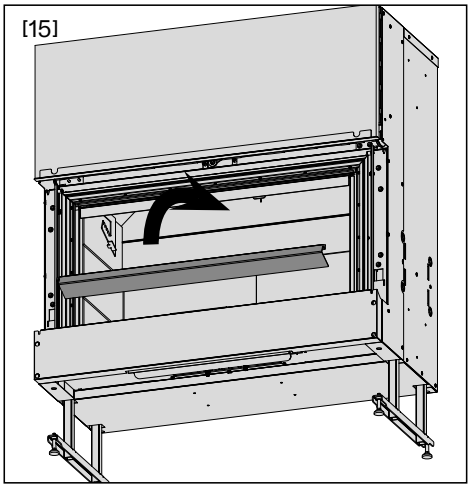
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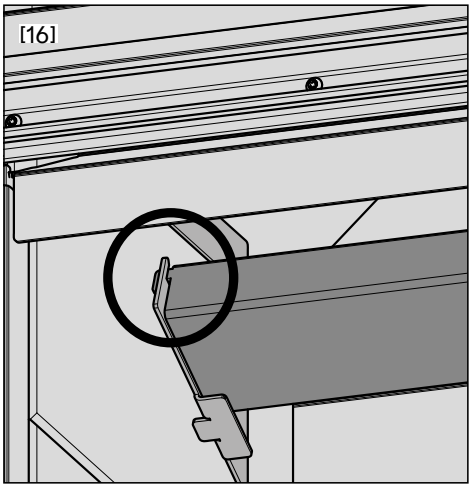
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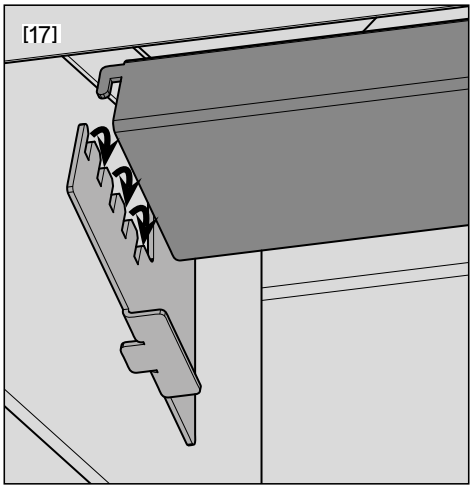
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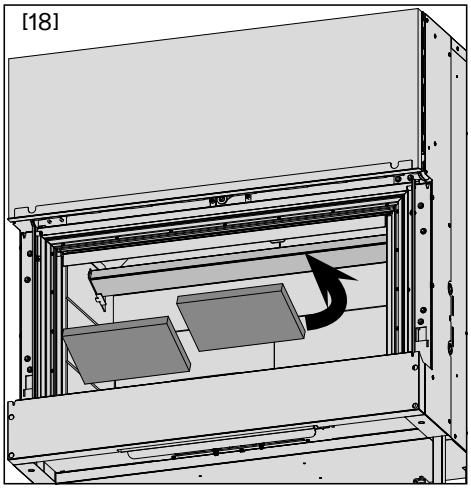
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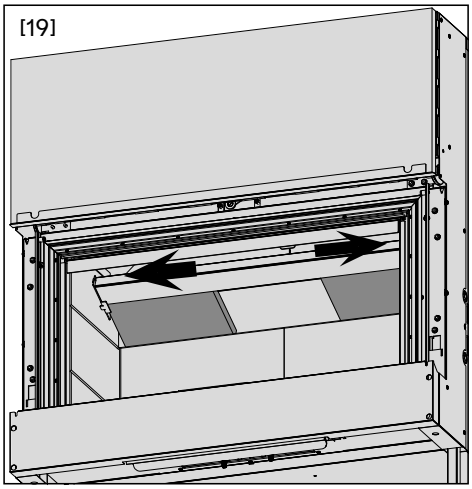
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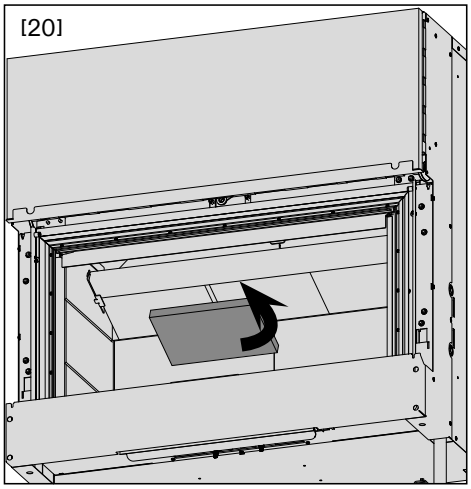
[18]



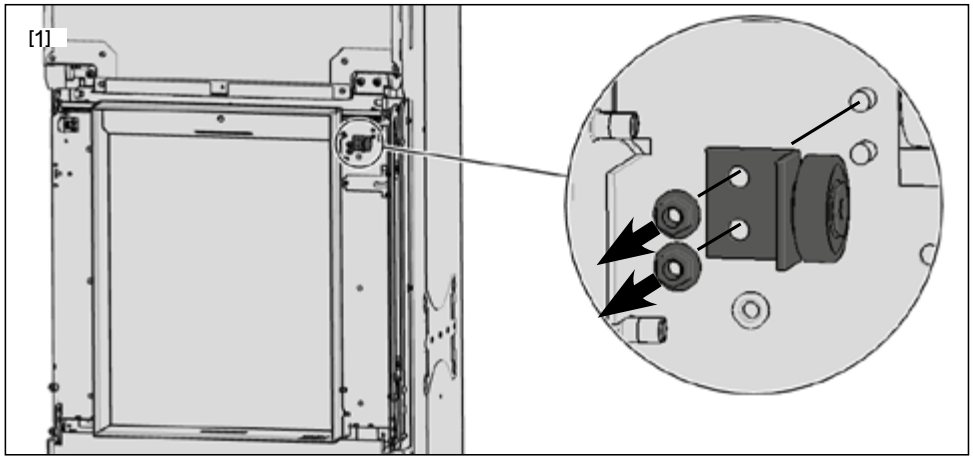
[19]

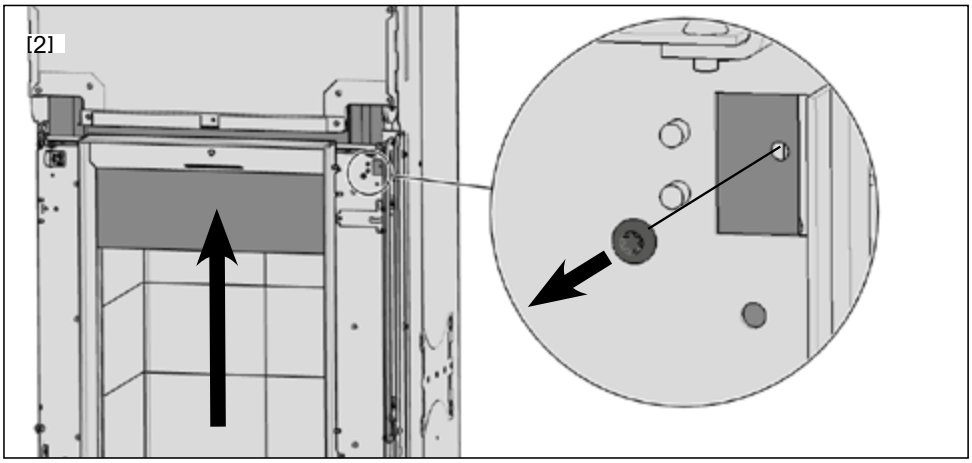


[20]



12. Releasing the partial opening of the glass door (s22 SF 70 only)



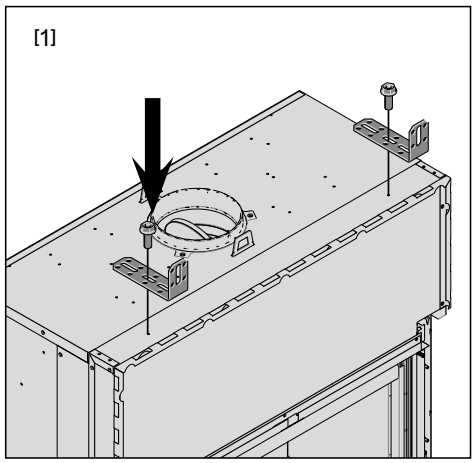


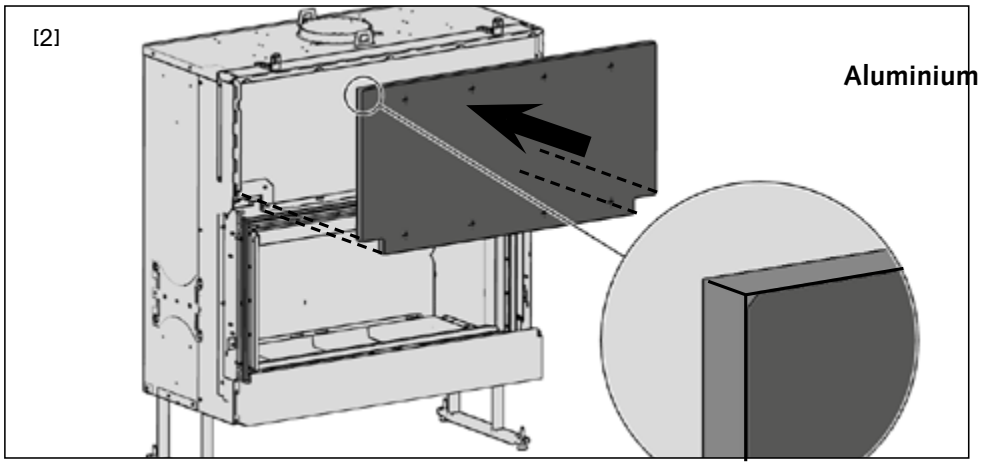
In order to avoid any risk of backflow, the opening of the Stûv 22 SF 70 glass door is locked in the factory.

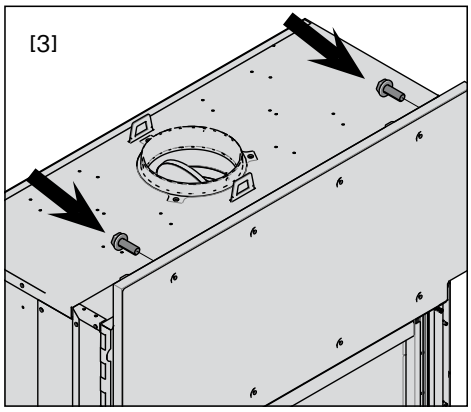
It is necessary to check that the flue duct is the correct size before releasing the stove opening at the future user's request.

Operation when fully open:
- min. flue height: 9 metres (if duct Ø180mm)
- min. flue height:7 metres (if duct Ø200mm)

13. Insulating the front panel (option)







14. Mounting of the door

Please refer to your frame installation guide.

15. When the installation of the stove is complete

⚠ Carry out a test to ensure it is working correctly.

Before this test, ensure no items involved in installation have been left in the combustion chamber or in the bends.

When the fire is first lit, some smoke or odours may be produced: Ventilate the room thoroughly.

See directions for use.

Once the stove is installed, give the instructions back to the user. Fill in the warranty certificate with them (online), the acceptance report and the installation report, and recommend that they send this back to the manufacturer or importer.

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Details of the device:

Model reference(s) :	STÛV 22 SF 70	Notified body / body number :	SGS / 0608
Equivalent models :	-	Test report number :	EZKA/2016-01/00005-1
Indirect heating functionality :	no	Applied harmonized standards :	EN 16510-1:2022/ EN16510-2-2: 2022
Direct thermal power :		Other applied standards / technical specifications :	-
Indirect thermal power :	12.3 kW		

Details of the reference fuel (only one) :

Fuel	Reference fuel (only one):	Other eligible fuel (s):	Seasonal space heating energy efficiency η_s [x %]:	Emissions from space heating at rated thermal output (*) :				Emissions from space heating at minimum heat output (*) (**) :			
				PM	OGC	CO	NO_x	PM	OGC	CO	NO_x
				[x] mg/Nm^3 (13 % O_2)				[x] mg/Nm^3 (13 % O_2)			
Wood logs with a moisture content ≤ 25%	yes	no	70,6	20	54	118	969	-	-	-	-
Compressed wood with a moisture content of < 12%	no	no	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
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, NOx = 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
Heating output			
Thermal output	P_{nom}	12.3	kW
Minimum thermal output (indicative)	P_{min}	-	kW
Auxiliary power consumption			
At nominal heat output	el_{max}	n.a.	kW
At minimum heat output	el_{min}	n.a.	kW
In standby mode	el_{SB}	n.a.	kW
Permanent pilot flame power requirement			
Pilot flame power requirement (if applicable)	P_{pilot}	n.a.	kW
Energy efficiency			
Energy efficiency index	-	107	-
Energy efficiency class	-	A	-

Characteristics	Symbol	Value	Unit
Useful efficiency (NCV as received)			
Useful efficiency at nominal heat output	$\eta_{th,nom}$	80.6	%
Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	-	%
Type of heat output/room temperature control (select only one)			
Single stage heat output control, no room temperature control			yes
Two or more manual stages, no room temperature control			no
With mechanic thermostat room temperature control			no
With electronic room temperature control			no
With electronic room temperature control plus day timer			no
With electronic room temperature control plus week timer			no
Other control options (multiple selections possible)			
Room temperature control, with presence detection			no
Room temperature control, with open window detection			no
With distance control option			no

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	STÛV 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

Ecodesign technical parameters for decentralised solid fuel heaters

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Details of the device:

Model reference(s) :	STÛV 22 SF 90	Notified body / body number :	SGS / 0608
Equivalent models :	-	Test report number :	EZKA/2015-02/00023-1
Indirect heating functionality :	no	Applied harmonized standards :	EN16510-1:2022 / EN16510-2-2:2022
Direct thermal power :	16.2 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 [x %]:	Emissions from space heating at rated thermal output (*) :				Emissions from space heating at minimum heat output (*) (**) :			
				PM	OGC	CO	NO_x	PM	OGC	CO	NO_x
				[x] mg/Nm^3 (13 % O_2)				[x] mg/Nm^3 (13 % O_2)			
Wood logs with a moisture content ≤ 25%	yes	no	81.1	12	56	979	100	-	-	-	-
Compressed wood with a moisture content of < 12%	no	no	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
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, NOx = 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
Heating output			
Thermal output	P_{nom}	16.2	kW
Minimum thermal output (indicative)	P_{min}	-	kW
Auxiliary power consumption			
At nominal heat output	el_{max}	n.a.	kW
At minimum heat output	el_{min}	n.a.	kW
In standby mode	el_{SB}	n.a.	kW
Permanent pilot flame power requirement			
Pilot flame power requirement (if applicable)	P_{pilot}	n.a.	kW
Energy efficiency			
Energy efficiency index	-	108	-
Energy efficiency class	-	A+	-

Characteristics	Symbol	Value	Unit
Useful efficiency (NCV as received)			
Useful efficiency at nominal heat output	$\eta_{th,nom}$	81.1	%
Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	-	%

Type of heat output/room temperature control (select only one)	
Single stage heat output control, no room temperature control	yes
Two or more manual stages, no room temperature control	no
With mechanic thermostat room temperature control	no
With electronic room temperature control	no
With electronic room temperature control plus day timer	no
With electronic room temperature control plus week timer	no
Other control options (multiple selections possible)	
Room temperature control, with presence detection	no
Room temperature control, with open window detection	no
With distance control option	no

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!

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Ecodesign technical parameters for decentralised solid fuel heaters

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Details of the device:

Model reference(s) :	STÛV 22 SF 90 ULTRA	Notified body / body number :	ACTECO / 1880
Equivalent models :	-	Test report number :	1880-CPR-009-22
Indirect heating functionality :	no	Applied harmonized standards :	EN16510-1:2022 /EN16510-2-2:2022
Direct thermal power :	16.8 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 [x %]:	Emissions from space heating at rated thermal output (*) :				Emissions from space heating at minimum heat output (*) (**) :			
				PM	OGC	CO	NO_x	PM	OGC	CO	NO_x
				[x] mg/Nm³ (13 % O_2)				[x] mg/Nm³ (13 % O_2)			
Wood logs with a moisture content ≤ 25%	yes	no	75.0	6	16	554	99	-	-	-	-
Compressed wood with a moisture content of < 12%	no	no	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
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, NOx = 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
Heating output			
Thermal output	P_{nom}	16.2	kW
Minimum thermal output (indicative)	P_{min}	-	kW
Auxiliary power consumption			
At nominal heat output	el_{max}	n.a.	kW
At minimum heat output	el_{min}	n.a.	kW
In standby mode	el_{SB}	n.a.	kW
Permanent pilot flame power requirement			
Pilot flame power requirement (if applicable)	P_{pilot}	n.a.	kW
Energy efficiency			
Energy efficiency index	-	113	-
Energy efficiency class	-	A+	-

Characteristics	Symbol	Value	Unit
Useful efficiency (NCV as received)			
Useful efficiency at nominal heat output	$\eta_{th,nom}$	85.0	%
Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	-	%
Type of heat output/room temperature control (select only one)			
Single stage heat output control, no room temperature control			no
Two or more manual stages, no room temperature control			no
With mechanic thermostat room temperature control			no
With electronic room temperature control			no
With electronic room temperature control plus day timer			no
With electronic room temperature control plus week timer			no
Other control options (multiple selections possible)			
Room temperature control, with presence detection			no
Room temperature control, with open window detection			no
With distance control option			no

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!

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Ecodesign technical parameters for decentralised solid fuel heaters

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Details of the device:

Model reference(s) :	STÛV 22 SF 110	Notified body / body number :	SGS / 0608
Equivalent models :	-	Test report number :	EZKA-14-0174-1
Indirect heating functionality :	no	Applied harmonized standards :	EN16510-1:2022 / EN16510-2-2:2022
Direct thermal power :	18.2 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 [x %]:	Emissions from space heating at rated thermal output (*) :				Emissions from space heating at minimum heat output (*) (**) :			
				PM	OGC	CO	NO_x	PM	OGC	CO	NO_x
				[x] mg/Nm³ (13 % O_2)				[x] mg/Nm³ (13 % O_2)			
Wood logs with a moisture content ≤ 25%	yes	no	70.2	26	69	1066	103	-	-	-	-
Compressed wood with a moisture content of < 12%	no	no	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
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, NOx = 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
Heating output			
Thermal output	P_{nom}	18.2	kW
Minimum thermal output (indicative)	P_{min}	-	kW
Auxiliary power consumption			
At nominal heat output	el_{max}	n.a.	kW
At minimum heat output	el_{min}	n.a.	kW
In standby mode	el_{SB}	n.a.	kW
Permanent pilot flame power requirement			
Pilot flame power requirement (if applicable)	P_{pilot}	n.a.	kW
Energy efficiency			
Energy efficiency index	-	106	-
Energy efficiency class	-	A	-

Characteristics	Symbol	Value	Unit
Useful efficiency (NCV as received)			
Useful efficiency at nominal heat output	$\eta_{th,nom}$	80.2	%
Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	-	%
Type of heat output/room temperature control (select only one)			
Single stage heat output control, no room temperature control			yes
Two or more manual stages, no room temperature control			no
With mechanic thermostat room temperature control			no
With electronic room temperature control			no
With electronic room temperature control plus day timer			no
With electronic room temperature control plus week timer			no
Other control options (multiple selections possible)			
Room temperature control, with presence detection			no
Room temperature control, with open window detection			no
With distance control option			no

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!

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Chief Executive Officer and Managing Director

Acceptance of works

This document certifies the satisfactory completion of the work. This form must be filled out by the installer in 2 copies, 1 for the installer and 1 for the user.

Customer:

Name .....
First name .....
Adresse of works .....
Postal code .....
E-mail address .....
City .....
Country .....

Installer:

Company .....
Phone number .....
E-mail address .....

VOTRE foyer Stûv 22

Serial number .....
Installation date .....

Flue characteristics

Flue hight (m) .....
Flue diameter (mm) .....

Type of flue

Device settings check :

Flue clearance check
Draft validation
Pellet quality control
Remarks

SAFETY INSTRUCTIONS : The use of this appliance must comply with the recommendations of the installer and the manufacturer's instructions provided in the user manual given to the customer along with the invoice and this acceptance report. The efficiency and longevity of the appliance will be directly related to the quality of the pellets used. In France, chimney sweeping is mandatory twice a year (certificate required).

THE INSTALLER (full name and signature)

THE CUSTOMER (full name and signature)

☐ Instructions and advice on starting, use, and maintenance of the device provided to the user.

Contact

Stûv stoves are designed and manufactured in Belgium by:

Stûv S.A.

Rue Jules Borbouse 4,
B-5170 Bois-de-Villers (Belgium)
info@stuv.com - www.stuv.com

Stûv reserves the right to make changes without prior notice.

These instructions have been produced with the greatest of care. However, we do not accept responsibility for any errors that may have been made

Editor:
Gérard Pitance – rue Jules Borbouse 4 –
5170 Bois-de-Villers – Belgium

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