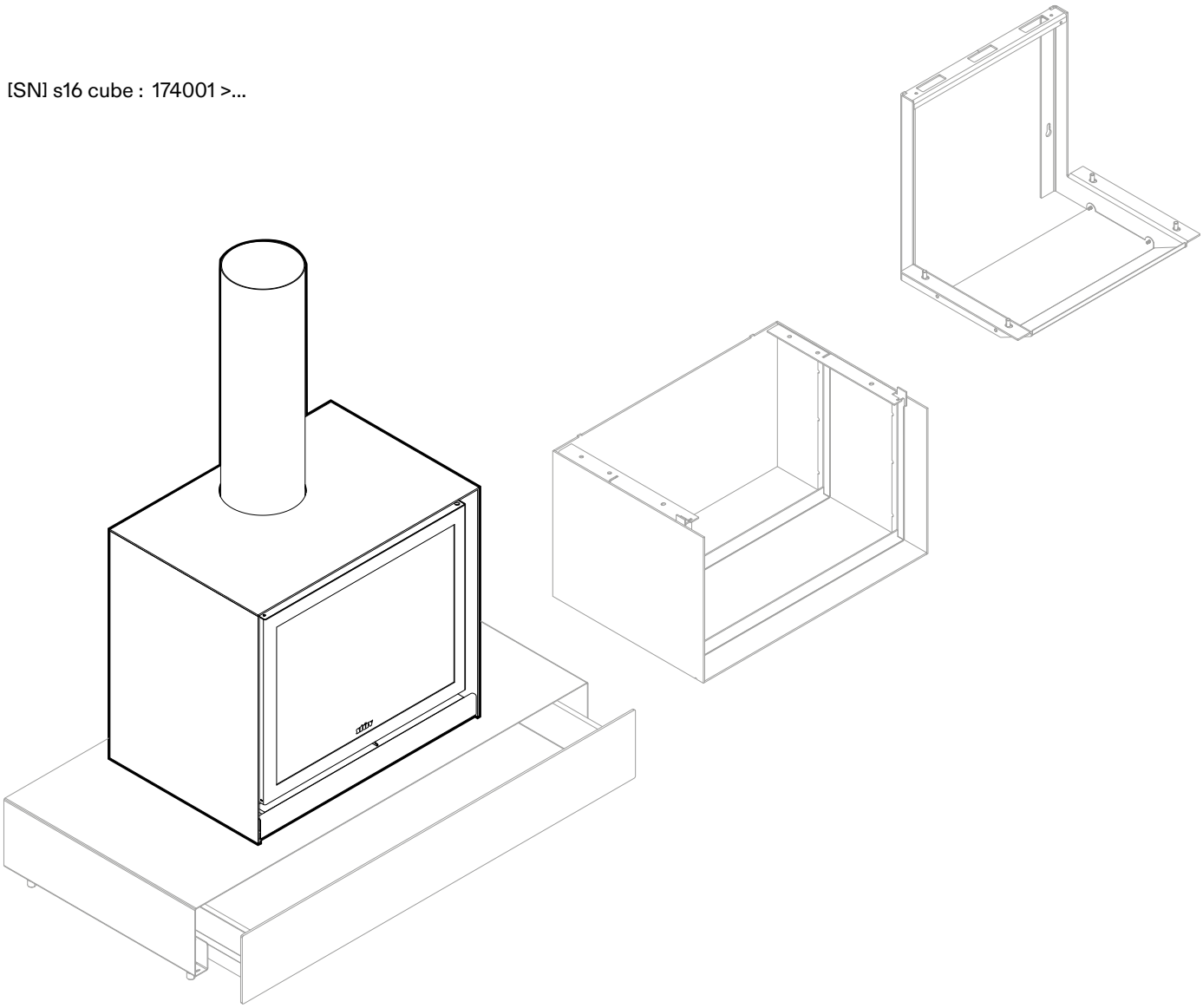
July 2025 [EN] 93104215

Installation instructions s[16]cube

For professionals

[SN] s16 cube : 174001 >...



STÛV 16 CUBE
STÛV 16 H
STÛV 16 UP

stûv

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.

Table of contents

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.

2. Precautions regarding surrounding materials

The building materials around the device may reach temperatures of up to 85°. 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. This limit is provided in the installation instructions for the Stûv 22.

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. Legal terms of use

⚠ 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

European Standards: EN 16510-2-1
Notified body identification number: 0051
Declaration of performance reference number : 25-1651021-01

16
Stûv S.A. Rue Jules Borbouse 4, 5170 Bois-de-villers
STÛV 16 CUBE/D4/H/UP 58

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

Hygiene, health and environment		Nominal output	Part load output
Emissions at 13% d'oxygène	CO	755 mg/Nm³	3569 mg/Nm³
	NOx	96 mg/Nm³	94 mg/Nm³
	OGC	33 mg/Nm³	268 mg/Nm³
	PM	14,7 mg/Nm³	16,2 mg/Nm³

Fire safety		Total distance	Convection air space	Insulation (Thermal conduct. of 0.105 W/m.K at 400°C)
Rear	dR	100 mm	100 mm	-
Sides	dS	150 mm	150 mm	-
Ceiling	dC	750 mm	750 mm	-
Bottom	dB	10 mm	10 mm	-
Distance to adjacent combustible (ex: furniture)	dP	1400 mm	1400 mm	-
Floor in front	dF	650 mm	650 mm	-
Side radiation area	dL	650 mm	650 mm	-

Safety and accessibility in use	Nominal output	Part load output
Flue gas outlet temperature	303°C	246°C
Minimum flue draught	12 Pa	7 Pa
Flue gas mass flow	5,9 g/s	4,2 g/s
Fire safety of installation to the chimney	T 400 G	

Energy economy and heat retention	Nominal output	Part load output
Space heat output	7 kW	3,4 kW
Water heat output	n.a.	n.a.
Efficiency	79,1 %	75,4 %
Space heating efficiency at nominal heat output	69,1 %	
Energy-Efficiency Index (EEI)	105	
Energy-Efficiency class	A	
Electric power consumption at nominal output	n.a.	
Electric power consumption at part load output	n.a.	
Power consumption in standby mode	n.a.	
Electric power (peak)	n.a.	
Electric power (average)	n.a.	
Voltage	n.a.	
Frequency	n.a.	
Mechanical resistance and stability		
Load bearing capacity	NPD	

CE

European Standards: EN 16510-2-1
Notified body identification number: 0051
Declaration of performance reference number : 25-1651021-02

16
Stûv S.A. Rue Jules Borbouse 4, 5170 Bois-de-villers
STÛV 16 CUBE/D4/H/UP 68

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

Hygiene, health and environment		Nominal output	Part load output
Emissions at 13% d'oxygène	CO	966 mg/Nm³	3974 mg/Nm³
	NOx	96 mg/Nm³	94 mg/Nm³
	OGC	34 mg/Nm³	404 mg/Nm³
	PM	14,7 mg/Nm³	32,3 mg/Nm³

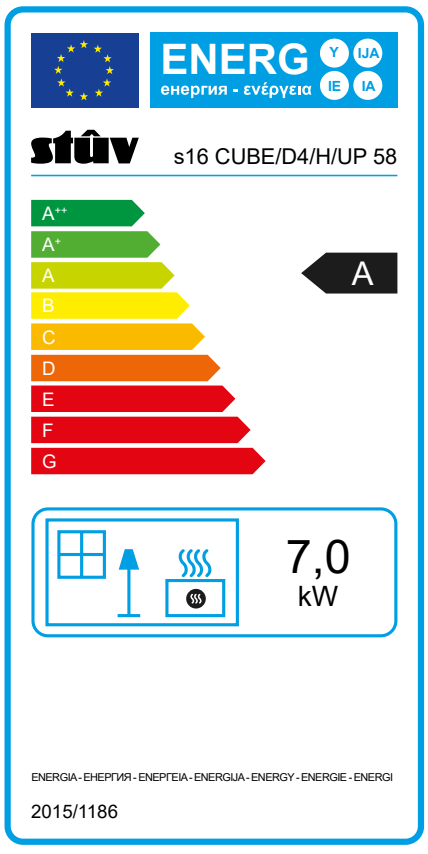
Fire safety		Total distance	Convection air space	Insulation (Thermal conduct. of 0.105 W/m.K at 400°C)
Rear	dR	100 mm	100 mm	-
Sides	dS	150 mm	150 mm	-
Ceiling	dC	750 mm	750 mm	-
Bottom	dB	10 mm	10 mm	-
Distance to adjacent combustible (ex: furniture)	dP	1650 mm	1650 mm	-
Floor in front	dF	650 mm	650 mm	-
Side radiation area	dL	650 mm	650 mm	-

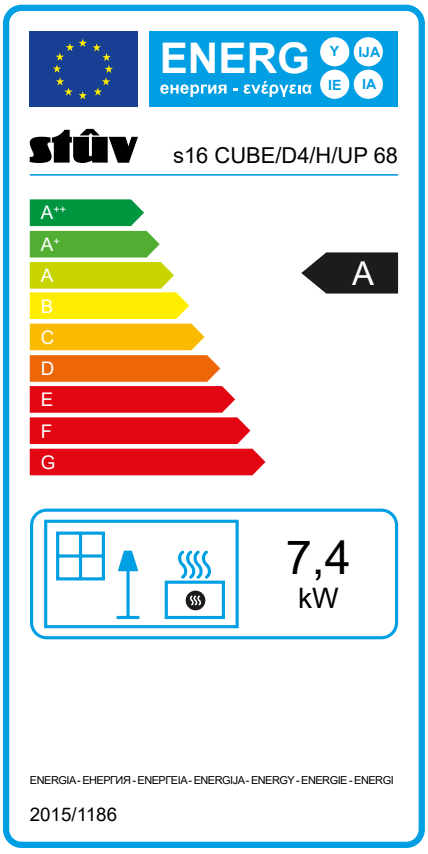
Safety and accessibility in use	Nominal output	Part load output
Flue gas outlet temperature	303°C	218°C
Minimum flue draught	12 Pa	7 Pa
Flue gas mass flow	6,8 g/s	4,3 g/s
Fire safety of installation to the chimney	T 400 G	

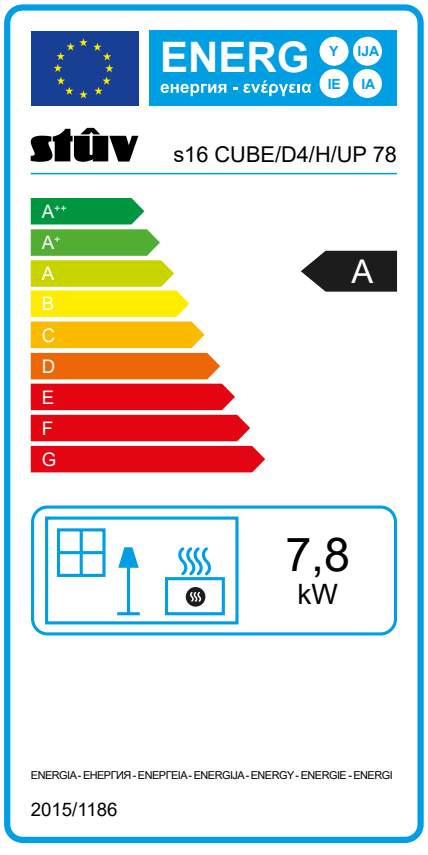
Energy economy and heat retention	Nominal output	Part load output
Space heat output	7,4 kW	3,5 kW
Water heat output	n.a.	n.a.
Efficiency	77 %	75,4 %
Space heating efficiency at nominal heat output	67 %	
Energy-Efficiency Index (EEI)	102	
Energy-Efficiency class	A	
Electric power consumption at nominal output	n.a.	
Electric power consumption at part load output	n.a.	
Power consumption in standby mode	n.a.	
Electric power (peak)	n.a.	
Electric power (average)	n.a.	
Voltage	n.a.	
Frequency	n.a.	
Mechanical resistance and stability		
Load bearing capacity	NPD	

CE					European Standards: EN 16510-2-1 Notified body identification number: 0051 Declaration of performance reference number : 25-1651021-03		
16 Stûv S.A. Rue Jules Borbouse 4, 5170 Bois-de-villers **STÛV 16 CUBE/D4/H/UP 78**					**Intended use :** space heating in residential buildings. Please read and follow the user instructions before starting! **Only use recommended fuels :** wood logs exclusively		
Hygiene, health and environment			Nominal output	Part load output	Energy economy and heat retention	Nominal output	Part load output
Emissions at 13% d'oxygène		CO	966 mg/Nm³	3974 mg/Nm³	Space heat output	7,8 kW	3,6 kW
		NOx	82 mg/Nm³	76 mg/Nm³	Water heat output	n.a.	n.a.
		OGC	34 mg/Nm³	404 mg/Nm³	Efficiency	77 %	77,8 %
		PM	14 mg/Nm³	32,3 mg/Nm³	Space heating efficiency at nominal heat output	67 %	
Fire safety		Total distance	Convection air space	Insulation (Thermal conduct. of 0.105 W/m.K at 400°C)	Energy-Efficiency Index (EEI)	102	
					Energy-Efficiency class	A	
Rear	dR	100 mm	100 mm	-	Electric power consumption at nominal output	n.a.	
Sides	dS	150 mm	150 mm	-	Electric power consumption at part load output	n.a.	
Ceiling	dC	750 mm	750 mm	-	Power consumption in standby mode	n.a.	
Bottom	dB	10 mm	10 mm	-	Electric power (peak)	n.a.	
Distance to adjacent combustible (ex: furniture)	dP	1650 mm	1650 mm	-	Electric power (average)	n.a.	
					Voltage	n.a.	
Floor in front	dF	600 mm	600 mm	-	Frequency	n.a.	
Side radiation area	dL	600 mm	600 mm	-	Mechanical resistance and stability		
Safety and accessibility in use			Nominal output	Part load output	Load bearing capacity	NPD	
Flue gas outlet temperature			303°C	218°C			
Minimum flue draught			12 Pa	8 Pa			
Flue gas mass flow			7,6 g/s	4,4 g/s			
Fire safety of installation to the chimney			T 400 G				

2. Energy labeling







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 16 CUBE/D4/H/UP 58

Energy efficiency rating	
Direct thermal power	**7,0 kW**
Indirect thermal power	**-**
Energy efficiency index	**105**
Output at rated thermal input	**79,1 %**
Output at minimum capacity	**75,4 %**

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 16 CUBE/D4/H/UP 68

Energy efficiency rating	
Direct thermal power	**7,4 kW**
Indirect thermal power	**-**
Energy efficiency index	**102**
Output at rated thermal input	**77,0 %**
Output at minimum capacity	**75,4 %**

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 16 CUBE/D4/H/UP 78

Energy efficiency rating	
Direct thermal power	**7,8 kW**
Indirect thermal power	**-**
Energy efficiency index	**102**
Output at rated thermal input	**77,0 %**
Output at minimum capacity	**77,8 %**

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 16510-2-1 (built-in stoves)

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

The Stûv 16-cube stoves (intermittent operation) meet the requirements (efficiency, gas emissions, safety, etc.) of the European standards EN 16510 and EN 13240. 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.**

The s16-D4, s16- H & s16-up stoves are technically composed of a s16-cube placed on a base. All the instructions related to the Stûv 16-cube are therefore applicable to the them. Note: s16-up must be installed on an incombustible wall!

	58		68		78	
	Part.	Nom.	Part.	Nom.	Part.	Nom.
Heat output (kW)	3,4	7	3,5	7,4	3,6	7,8
Efficiency (%)	75,4	79,1	75,4	77,0	77,8	77,0
CO_2 concentration (%)						
Average flue gas t° at the "spigot" outlet (°C)	291	359	267	351	243	343
Min. draft at the outlet for flue calculation (Pa)	7	12	7	12	8	12
Flue gas mass flow rate (g/s)	4,2	5,9	4,3	6,8	4,4	7,6

1.2. Other technical data

Flue shape	Circular		Circular		Circular	
Flue diameter (mm)	180		180		180	
Air intake diameter (mm)	63		63		63	
Recommended wood consumption range per hour at 12% humidity (kg/hour)	1,4	2,3	1,5	2,6	1,8	2,9
Max. wood consumption per hour to avoid overheating the appliance (kg/hour)	3		3,2		3,4	
Optimal power usage range (kW)	5	8	5	9	6	10
Maximum log length in horizontal position (cm)	40		60		50	
Minimum section of combustion air supply from outside when the appliance is not directly connected to outside air (cm^2)	50cm^2		50cm^2		50cm^2	
Maximum length & number of 90° bends with Ø63mm air intake ducts.	**Cube/D4/UP** : Max length of 1 meter with 1 single bend of 90°. **H** : Max length of 1 meter, no bend allowed. ⚠ **Any deviation from this rule requires reference to your calculation note!**					
weight (kg) cube	113		122		130	
D4	204		226		247	
H	136		147		158	
UP	121		130		138	

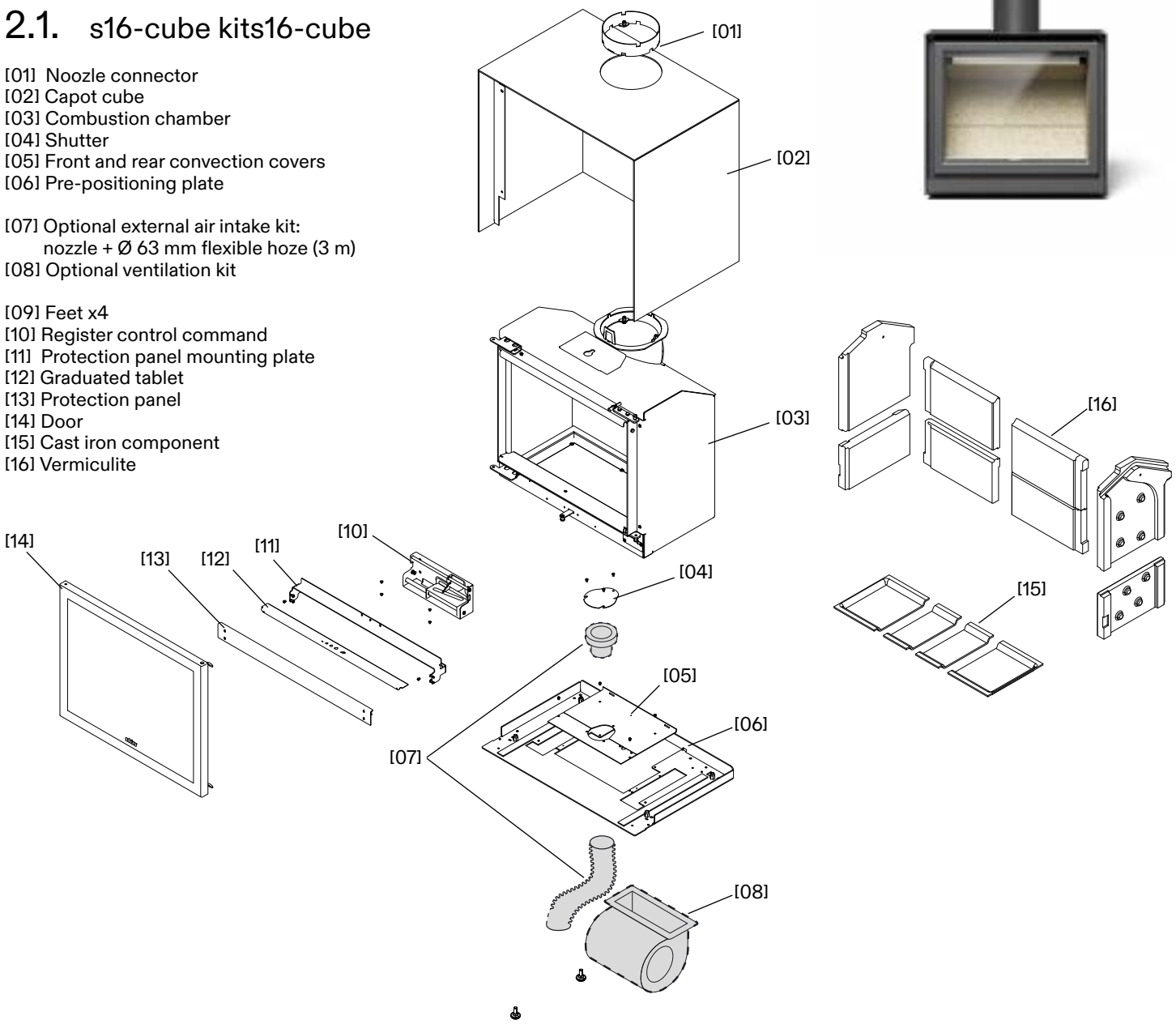
2. Product composition

2.1. s16-cube kits16-cube

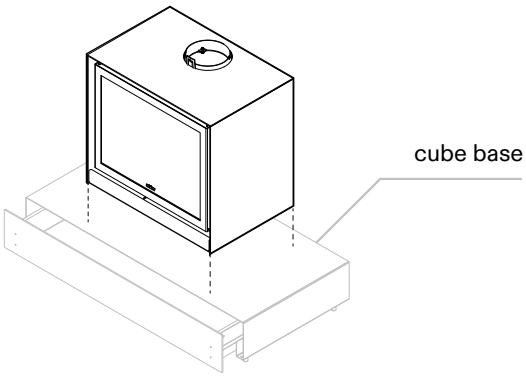
[01] Noozle connector
[02] Capot cube
[03] Combustion chamber
[04] Shutter
[05] Front and rear convection covers
[06] Pre-positioning plate

[07] Optional external air intake kit:
nozzle + Ø 63 mm flexible hoze (3 m)
[08] Optional ventilation kit

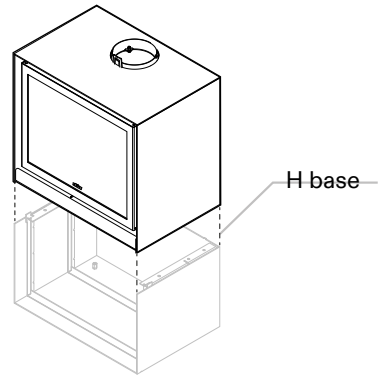
[09] Feet x4
[10] Register control command
[11] Protection panel mounting plate
[12] Graduated tablet
[13] Protection panel
[14] Door
[15] Cast iron component
[16] Vermiculite



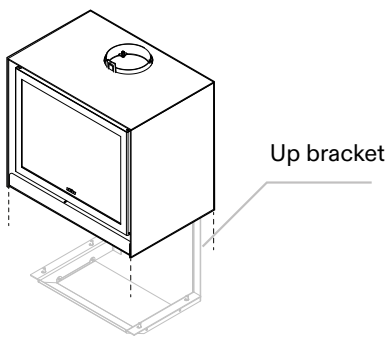
2.2. Additional optional kits



The s16-cube base can be ordered as an option. Please refer to the installation manual included with the base package before proceeding with the stove assembly.



The s16-H base can be ordered as an option. Please refer to the installation manual included with the base package before proceeding with the stove assembly.



The s16-up bracket can be ordered as an option. Please refer to the installation manual included with the base package before proceeding with the stove assembly.
⚠ Note: s16-up must be installed on an incombustible wall!

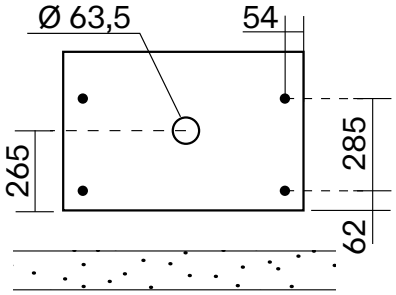
3. Useful dimensions

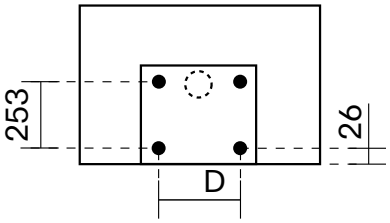
3.1. Dimensions of the basic kit

s16-cube without ventilation kit

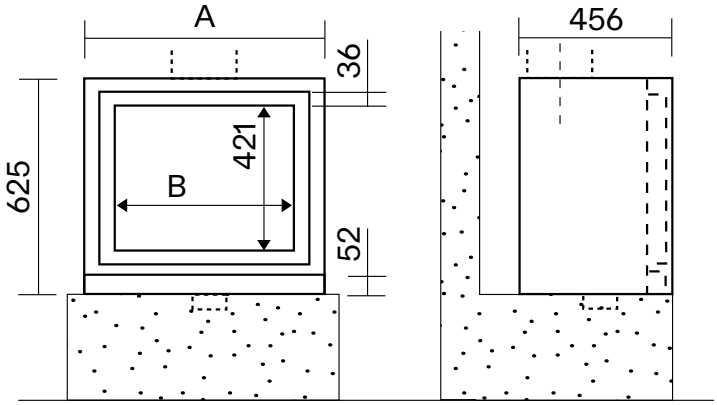
s16-cube with ventilation kit

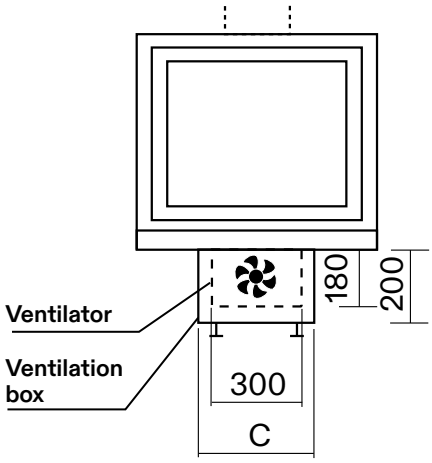
View from below



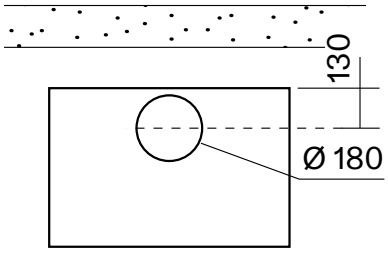


Front & side views





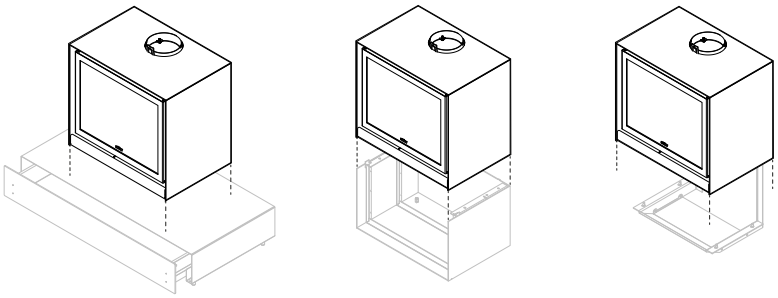
View from above



	A	B	C	D
Stûv 16-in 58	580 mm	448 mm	340 mm	288 mm
Stûv 16-in 68	680 mm	548 mm	540 mm	512 mm
Stûv 16-in 78	780 mm	648 mm	540 mm	512 mm

3.2. Dimensions of optional claddings

If you have ordered one of the optional Stûv 16 cube kits, please refer to the dimensions in the manual supplied with your cladding kit.



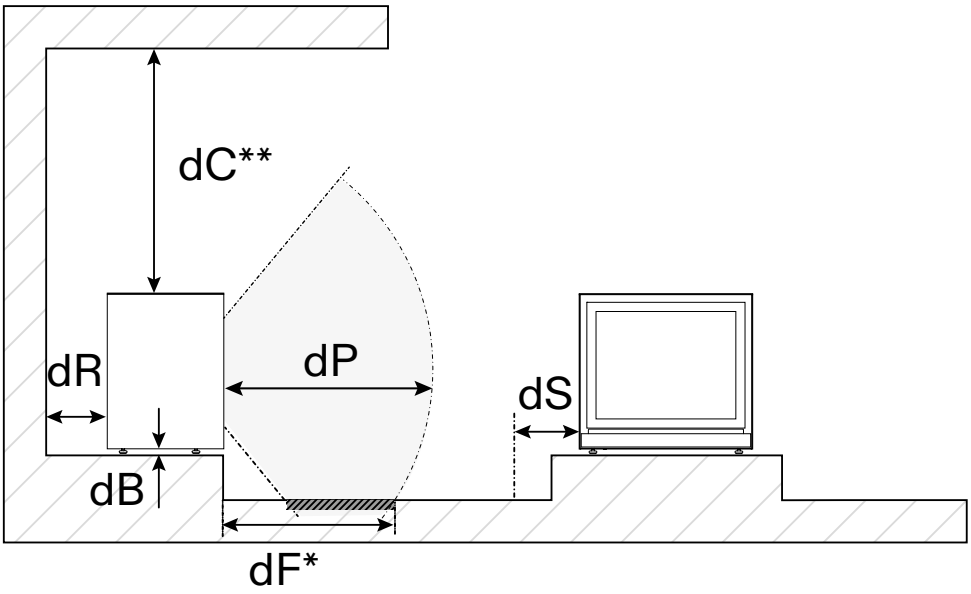
Preparation of the area

1. Load-bearing capacity of the structure

⚠ Make sure that the floor's strength is sufficient to support the stove, 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 distances & environment of the stove

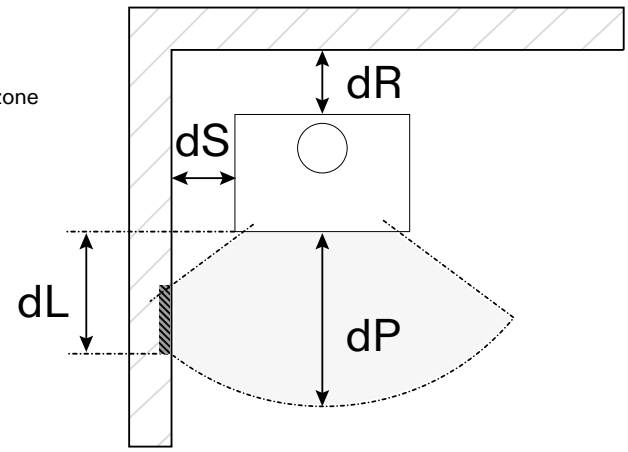
2.1. Safety distances to combustible materials (mm)



Combustible materials

Critical radiation exposure zone

Radiation zone



⚠ The specified safety distances for the **Stûv 16-cube** are **valid ONLY for fully insulated flue ducts** with an insulator having a thermal conductivity of 0.07 W/m.K at 400 °C and a 25mm thickness. **For all other cases, refer to the applicable regulations.**

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 90°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 these safety distances adapted to the differents optional kits (D4,H,up) can be found in their own package.

Safety distances	58	68	78
dR = Rear	100	100	100
dS = Sides	150	150	150
dC = Ceiling**	750	750	750
dB = Bottom	10	10	10
dP = Front (ex. furniture)	1400	1650	1650
dF = Floor in front*	650	650	600
dL = Side radiation area	650	650	600

2.2. Stove environment

Significant heat may be radiated through the glass door. Ensure the materials exposed to this radiated heat are resistant to high temperatures (diagram 1&2). Respect the safety distances from combustible materials at the back (diagram 2).

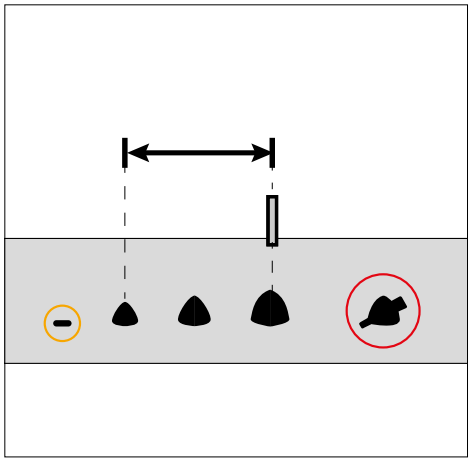
The floor in front of the appliance must be made of non-combustible material! Refer to the safety distances to the floor (dF) for your appliance model!

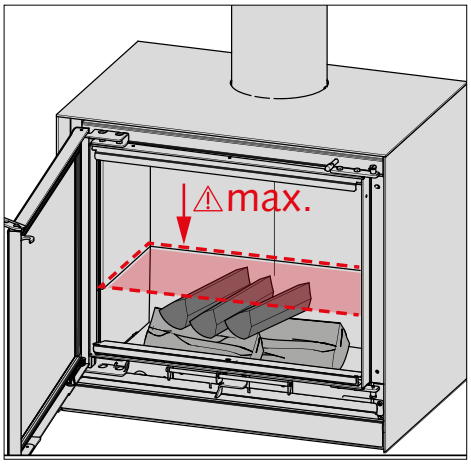
If using a floor plate, ensure that the critical exposure area is completely covered!

3. Mandatory instructions for safe use

⚠ **The boost mode of the control unit** ◯ (schema 1) **must never be used outside of the ignition phases!**

⚠ **The loading/reloading of logs must never exceed the upper limit of the first row of vermiculite at the bottom of the combustion chamber** (schéma 2).

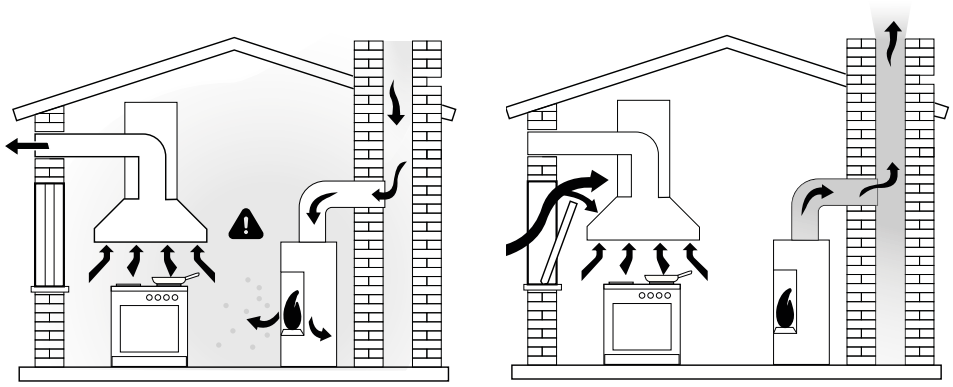




4. Air inlet

4.1. Prevention of draft interference: caution with other appliances

⚠ **Your Stûv 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). In this case, if your installation has an air inlet valve, make sure to open it before lighting the stove.
Si votre poêle n'est par contre pas raccordé directement à l'extérieur, vous devez prévoir Sufficient air intake near the fireplace: a minimum diameter of 63 mm or a minimum surface area of 32 cm^2. This air intake must comply with local and national regulations. Always keep this air intake free of any obstructions.



⚠ **Important!** This stove must be installed in accordance with good practice and local and national regulations. Some authorities impose or restrict conditions of use depending on the fuel used. Please take this into account. A qualified professional must have ensured that the characteristics of the flue and the environment are suitable for the stove installed. Read these instructions carefully and follow the maintenance recommendations. Complete and return the warranty certificate (at the end of this document) to us.

⚠ **BEWARE OF OTHER APPLIANCES!** The presence of other appliances that consume air in the same room (extractor fan, cooker hood, air conditioning, etc.) can significantly disrupt the operation of your stove. If the air supply to the fireplace is insufficient, a vacuum is created and the combustion in your fireplace is disrupted, creating a risk of backdraft. 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 that you consult a professional, who will help you to provide additional air inlets suitable for the total consumption of all your appliances.**

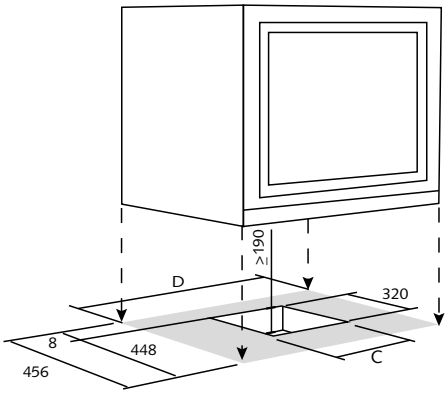
4.2. Preparation of the support structure (ventilation option only)

⚠ **Space must be provided for the fan or ventilation box.**

Regarding the distances between the wall and the connection duct, refer to your local and national regulations.

The option of a ventilation kit requires planning a housing in the support structure to accommodate it! Refer to the dimension table below for this purpose:

	C	D
s16-cube 58	350	580
s16-cube 68	550	680
s16-cube 78	550	780



4.3. Different types of air intake

4.3.1. External Air Intake via Ducted Supply

The Stûv 16-cube is designed to be connected via flexible duct directly to an external air supply independent of the house air (diagrams 1 & 3). We recommend this configuration as it ensures proper operation regardless of the building's air tightness or pressure variations in the house, caused for example by a kitchen hood or controlled mechanical ventilation. This air supply will come from a ventilated void, a ventilated room (basement) or from outside (mandatory in some countries).

The duct that carries this air:

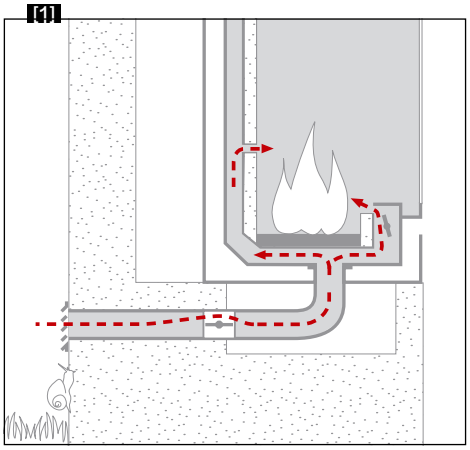
- Will be protected on the outside by a grille (diagram 1) with a free passage section at least equivalent to the air inlet section: Ø 63 mm. Pay attention to water infiltration and wind influence which can make the system ineffective.
- Will be as short as possible to avoid pressure losses and prevent cooling of the house.

With our standard Ø 63 mm flexible duct, we recommend a maximum length of 1 meter and no more than one bend. If you exceed these specifications, you will need to compensate with a larger diameter and/ or a smoother tube.
⚠ Be careful not to crush the duct.

The interior/exterior damper:

- prevents the house from cooling when the fireplace is not in operation.
  This device is therefore optional if you opt for direct connection to the stove. However, it remains useful if the ducts are too long relative to the stove or if the installation is in a low-energy house.
- should ideally be placed as close as possible to the exterior wall.

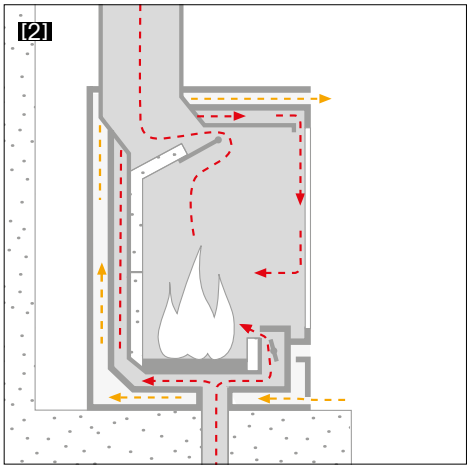
[1]

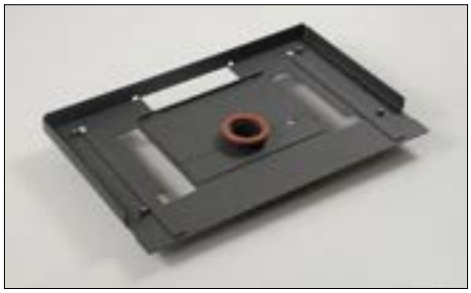


⚠ This configuration (diagram 1) is not compatible with s16-H et s16-up.

4.3.1.1. With natural convection

[2]



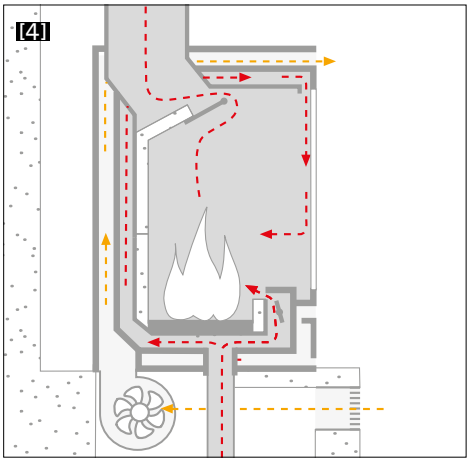


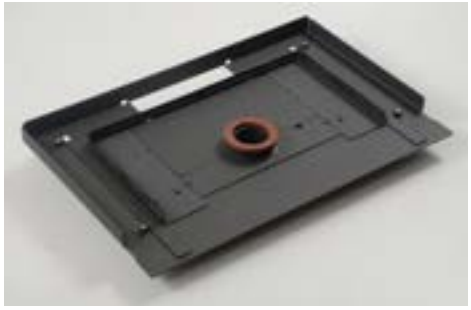
- The combustion air is drawn directly from outside the building.
- In this configuration the insert is not equiped with a fan.

⚠ Warning: In this configuration, remove the side convection shutters only.

4.3.1.2. With forced convection (optional fan)

[4]





- The combustion air is drawn directly from outside the building.
- In this configuration the insert is equiped with a fan.

4.3.2. Air intake from the ambient air

Indirect convection is the configuration where the air for combustion is taken from the ambient air in the room where the fireplace is located.

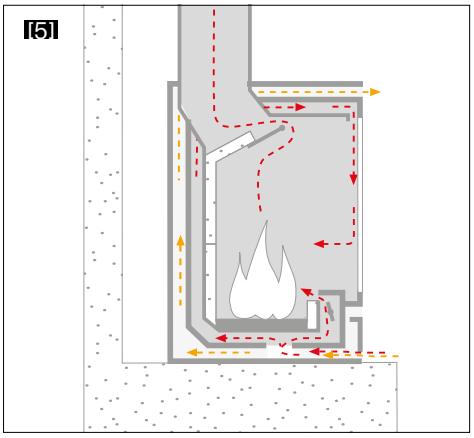
⚠ If the fireplace is not directly connected to an external air supply, an air intake with a sufficient cross-section (**approximately 50 cm²**) should ideally open near the fireplace.

The air from the room will enter the fireplace through the intake at the bottom of the front of the fireplace.

⚠ Warning: Ensure that the chosen configuration fully complies with local or national regulations. Be cautious of active air extraction systems (kitchen hood, air conditioning, controlled mechanical ventilation, other fireplaces...) located in the same space or in an adjacent room. They also consume a lot of air, can create a vacuum in the room, and disrupt the proper functioning of the fireplace (risk of backdraft). They could disrupt the operation of the fireplace even if it is connected to an external air supply.

4.3.2.1. With natural convection

[5]



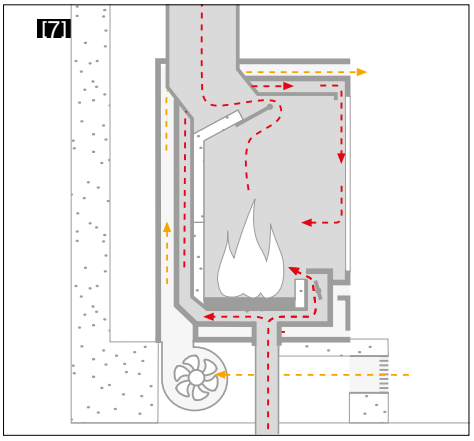
[6]

- The combustion air is drawn in the room where the insert is installed.
- In this configuration the insert is not equiped with a fan.

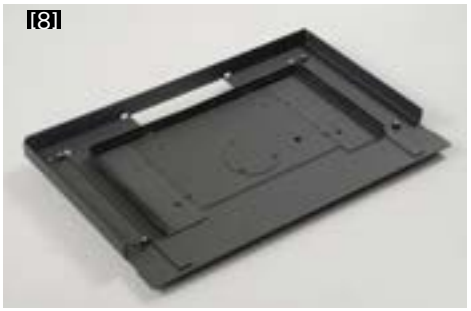
⚠ Warning: In this configuration, remove the front and rear & side convection shutters from the support plate.

4.3.2.2. With forced convection (optional fan)

[7]



[8]



- Air intake from the ambient air in the room where the fireplace is installed
- In this configuration the insert is equiped with a fan.

⚠ **Warning:** in this configuration, ensure that the fan does not obstruct the air supply required for combustion! Ensure that the shutter is properly sealed!

5. Smoke flue pipes

5.1. Basic standards

Stûv recommends that each installation complies with installation standards EN 15287-1 or -2 and that a calculation note be performed 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 complies with standard EN1856-1 and EN 14989-2, characterizing metallic flue pipes.

It is imperative to avoid the formation of condensate at your flue outlet. In case of damage caused by the presence of condensate, the resulting damage is not covered by the Stûv warranty.

5.2. Basic notions

Ensure that the dimensions of the flue, the clearances from combustible materials, glass, etc., comply with local regulations and standards for a proper installation.

For proper draft, the fireplace must be matched to the chimney flue (or vice versa). **An oversized chimney is as detrimental to the proper functioning of the fireplace as an undersized one.**
You can find a simplified method to roughly evaluate the characteristics of the flue based on the type of fireplace at www.stuv.eu > questions – answers. For more precision, consult a professional.

The flue should be as straight as possible and insulated to promote draft and prevent condensation.

The ideal solution is a flue constructed inside the building and thermally insulated. To be avoided: an uninsulated exterior flue.

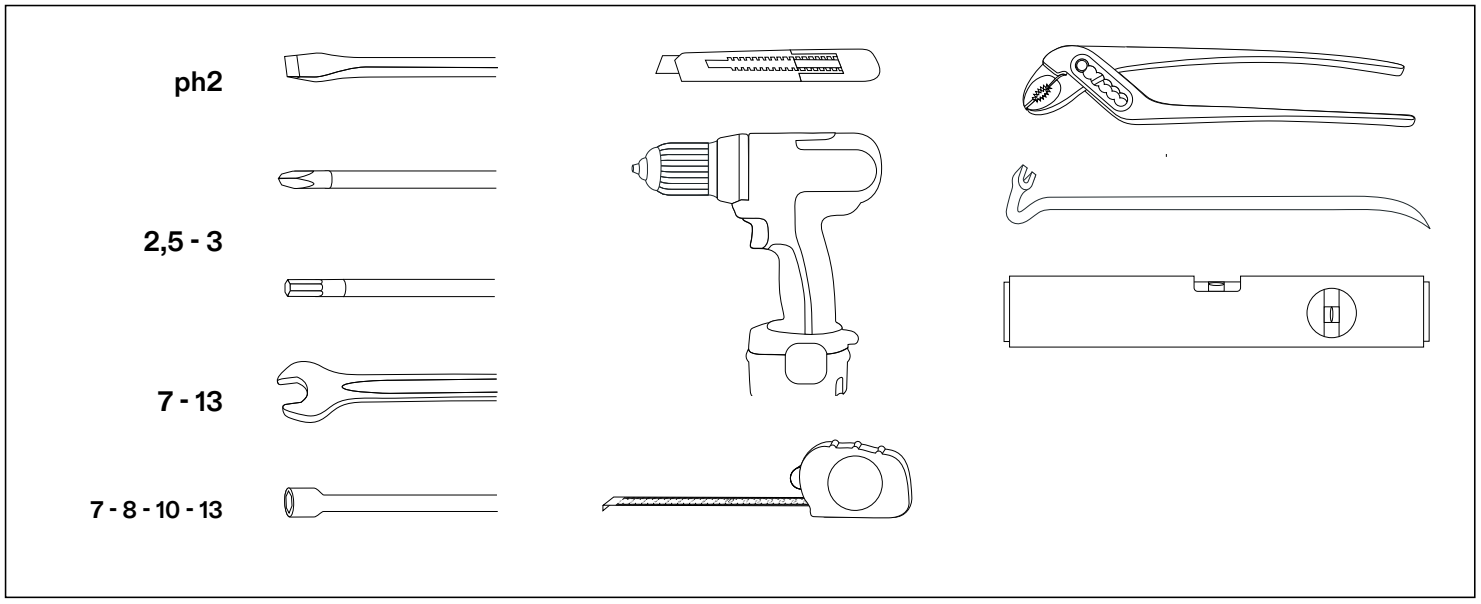
The fireplace can only be connected to a flue serving multiple appliances under three conditions:

- All appliances connected to this flue use the same fuel.
- They have "automatic" closing doors like the Stûv 16-cube.
- The flue has been designed for this type of use; consult a professional if necessary.

Standard diameter of the smoke outlet: 180 mm.

Some chimney configurations may require a different diameter than the standard one. In this case, please consult your dealer.

6. Tools



Installation

1. On taking delivery of the equipment

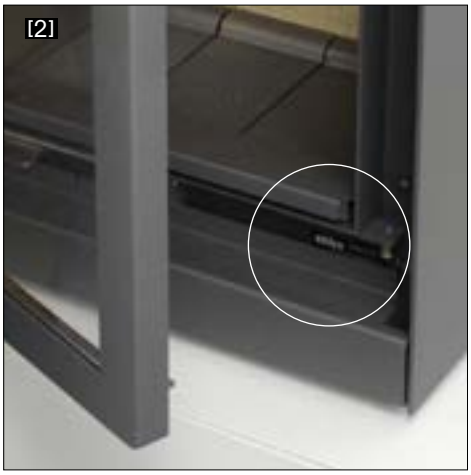
Please note!

Upon receipt of this stove, please ensure than the glass door has not been damaged during delivery. The guarantee only covers damage due to transport if it is reported within 48 hours of delivery and it is indicated on the delivery slip [picture 1].

Complaints

Always indicate the serial number visible on the stove when making a complaint [picture 2].


[1]


[2]

2. Unpacking

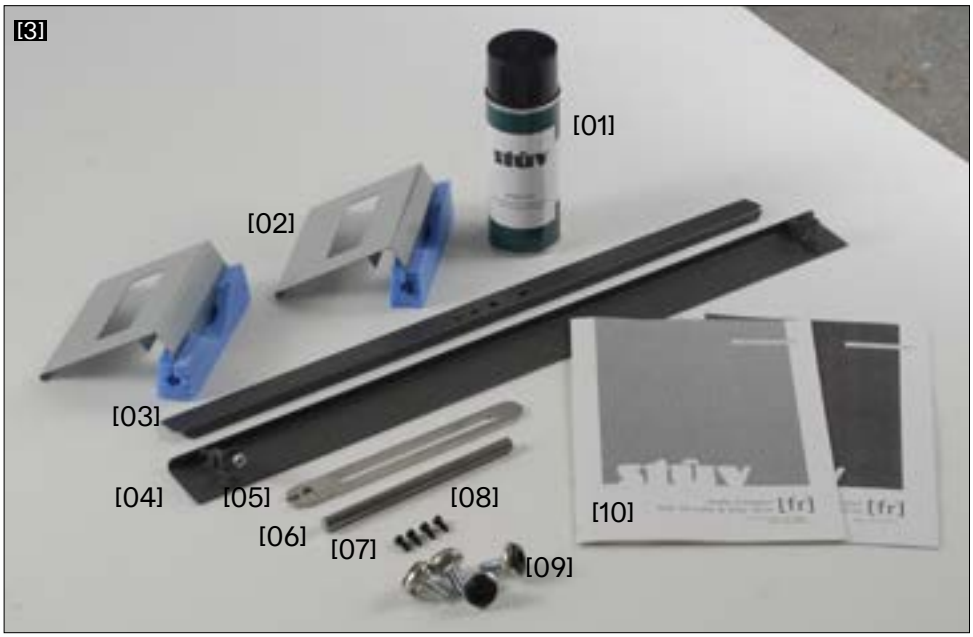
Please note !

The paint is not oven baked and is therefore relatively fragile but will harden after being heated a few times. Handle the system with care when installing.

Checking the order

Where accessories have been ordered (frame, support,...), they will be found around the hearth or its packaging. Please check all accessories are supplied as ordered.

Inside the combustion chamber, you will find:



[01] paint spray for touch-up

[02] grips to handle the finishing cover

[03] flap

[04] graduated tablet

[05] cold handgrip to handle the door and the valve

[06] anti-sweep stainless steel bar

[07] 2 bolts for attaching the front of the stove to the support plate

[08] 2 screws for attaching the back of the stove to the support plate

[09] adjustable levelling feet

[10] Installation instructions and directions for use

Before moving the stove

Dismantle the door: unfasten the resisting spring (photo 4), then remove it,

Lift off the cover:

- remove the 4 screws on either side of the door (photo 5),
- remove the upper part of the cover from the stove. To do so, release the lock by undoing the hexagonal-headed screw (photo 6) and turn the lock (photo 7),
- take off the cover using the grips provided (photos 8 and 9).

Moving the stove:

- using a pallet truck: leave it on its pallet
- using a hand truck: insert some cardboard to protect the back of the stove, turn the stove onto its back, leave the pallet in its position
- by hand: take hold of the stove at the front (photo 10) and at the back (photo 11).


[4]


[5]


[6]


[7]


[8]


[9]


[10]


[11]

3. Installation of the support plate

3.1. Mounting the Stûv 16-cube support plate

The base plate (photo 1) is a key element in the system: the outside air inlet duct is connected to it and the fan and its accessories are attached to it.

It supports the stove itself. It remains fixed.

It is positioned:

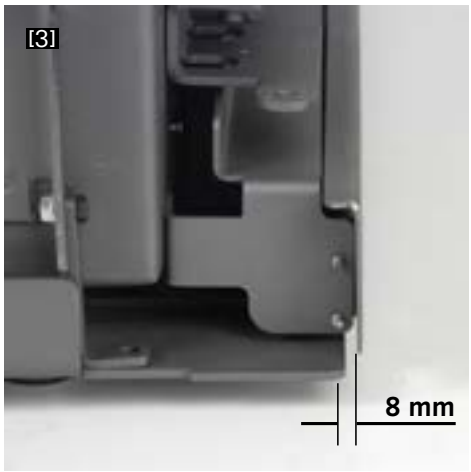
- on the ground
- or on a brickwork base
- or on the adjustable support
- or on the ventilation chamber.
- or on a Stûv base,
- or on the "16-cube base" sub-unit to form a Stûv 16-H.

In the two latter cases, see the instructions which come with these accessories.

Whatever solution is chosen, the position of the plate determines the position of the stove. It is thus essential to align it accurately with the smoke flue. A small hole cut in the sheet metal (photo 2) indicates the verticality of the smoke outlet.

Please bear in mind that the front edge of the plate will stand 8 mm back from flap (photo 3).

Prepare the base plate according to the configuration chosen. See page 7.



3.2. Mounting the Stûv 16-H support plate

Consult the instruction supplied with accessory

3.3. Fitting the Stûv 16-Up brackets

Consult the instruction supplied with accessory

4. Assembly of the plate on the ventilation chamber

Where this option has not been selected, please move on to the next chapter.

Warning! These components are not compatible with Stûv 16-H and Stûv 16-U configurations.

The ventilation box allows the connection of ducts which feed ambient air from remote areas of the room containing the stove or from adjacent rooms.

The ventilation box is not mandatory : when it is not fitted, the ventilator fan is placed in a space under the stove and will draw nearby ambient air through vents to be provided.

The ventilation box must be screwed on to the plate. It can be fitted in two ways :
- it can serve as a base for the stove.
- suspended from the pre-fitting plate (which is resting on the masonry or on the adjustable support)

The ventilation box supports the stove.

Determine the exact position of the box (which in turn will determine that of the stove !) A cross cut in the bottom of the box is plumb with the centre of the flue.

The front face of the chamber is 134 mm behind the front face of the stove (diagram 1). The front face does not have pre-cuts for the connection of ducts (photo 2).

Free the openings for the convection ducts (Ø 150mm).

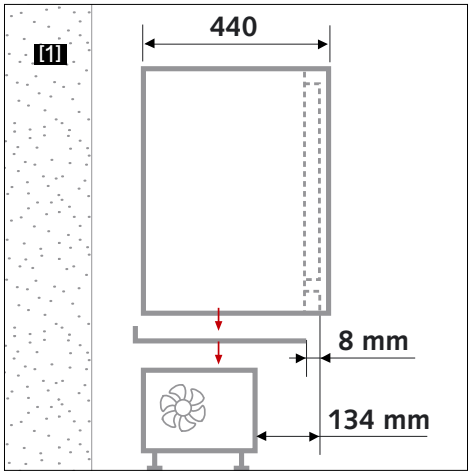
Caution : where this is the selected option, the outside combustion air duct (Ø 63 mm) must also run through the ventilation box (pic. 4 & 8). Passage through the box : ideally from the bottom or from the left hand side since the electronic power circuit will occupy the right hand side ; if for some reason it has to be on the right hand side, then the electronic circuitry will have to be fitted to the left.

Set level with the adjustable legs (pic. 5).

Secure the box to the floor (pic. 6).

Install the flanges (pic. 7), secure duct with a clamp.

[1]



[2]

[3]

[4]

[5]

[6]

[7]

8. Combustion air connection

Air drawn from outside

If the stove is positioned on a Stûv base with a drawer or on a Stûv 16-H base, please consult the instructions which come with these accessories.

The combustion air is drawn from outside by means of a duct (diagram 1) connected to the support plate.

Remove the plug (photo 2) and the cover at the front (photo 3).

Fit the duct over the sleeve (photo 4) and secure it with a clamp collar (photo 5) with the collar attachment turned towards the back of the stove

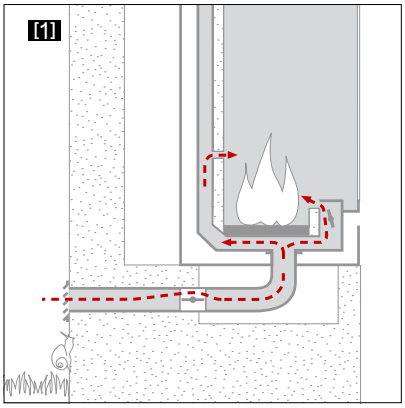
Insert the 2 M4 screws with hexagonal heads into the cover at the front, put the sleeve between the 2 screws (photo 6) and then fasten it all.

Ensure the plate is level and attach it to the base (photo 7).

Combustion air is drawn from the room where the stove is installed

Make sure there will be adequate air renewal once the stove is operating.

Remove all of the covers of the support plate (photo 8).

[1]


[2]


[3]


[4]


[5]


[6]


[7]


[8]


9. Fan optional kit

9.1. Overview

Warning! These components are not compatible with Stûv 16-H and Stûv 16-U configurations.

If you install the Stûv 16-cube on a Stûv base with a drawer, the composition of the ventilation kit and the installation procedure are slightly different.

Please refer to the instructions that come with the base with a drawer.

[01] fan + 2 screws

[02] electronic regulator
+ 2 M4 × 8 screws
with hexagonal heads

[03] switch with 4 positions
+ support
+ finish plate

[04] cable with 4 wires

[05] thermal switch
+ cable
+ cable guide

[06] 2 pre-cut filling plates (to be modified in line with the model of stove) + 4 screws tx M4 × 6

[07] air-tight seal for convection air circuit with pull thread.

[08] auto-adhesive aluminium strip to ensure the air-tightness of the outside envelope (transport handle grips, screw holes for attaching the duct)

9.2. Mounting on the pre-positioning plate

Remove the covers (photo 1) and get the power cable ready.

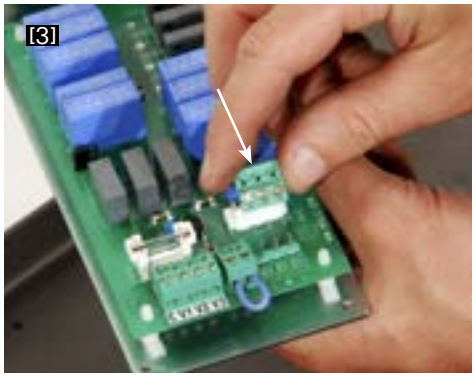
Put the fan into position (photo 2).

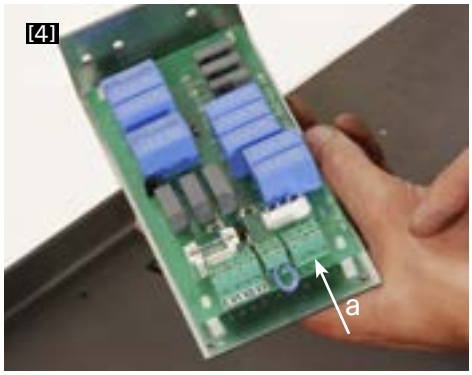
9.3. Electrical connections

Connection of the power supply and earth

Connect the cables to the circuit; the terminal blocks can be disconnected from the electronic circuit [photo 4]. The connection indications are marked on the underside of the terminal blocks (power supply, earth, speed 1, 2,).

Connect the power supply [photo 5-a].





Connect the earth to the circuit's metal support (photo 6).

Connection of speed control

Strip the cable with 4 wires and clean the sheath of each wire; you will see that each of the wires is numbered. Connect to the terminal block
(photo 7-c) by following the indications of the wiring scheme (diagram 8).

Connection of the fan

The cable attached to the fan is provided with a connector; connect it (photo 7-d).

Test the unit is working before connecting the thermal switch.
After testing, turn off the power!

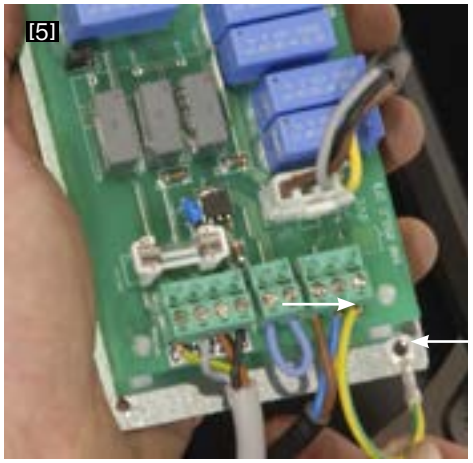
Adjustment of the fan's power

If the ducts [diagram 9] have a considerable length (A + B > 3m)*, the fan will require more power to overcome the pressure loss: you will have to connect the 3 separately supplied jumpers to the electronic circuit [photo 10].

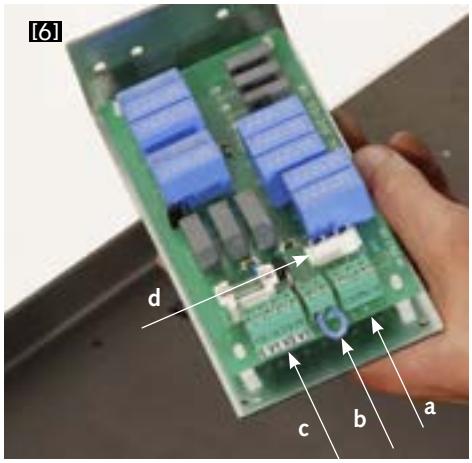
A: Length of the longest aspiration duct

B: Route of the air inside the stove = 1m

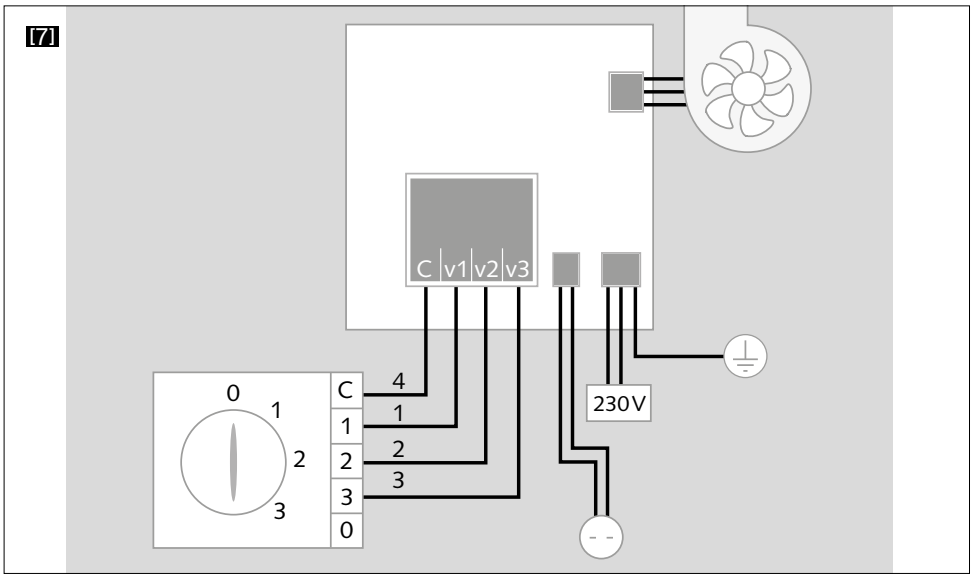
[5]



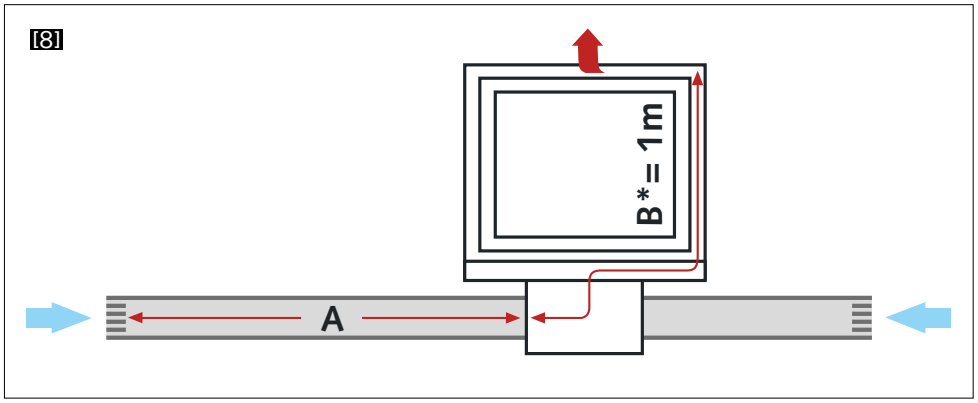
[6]



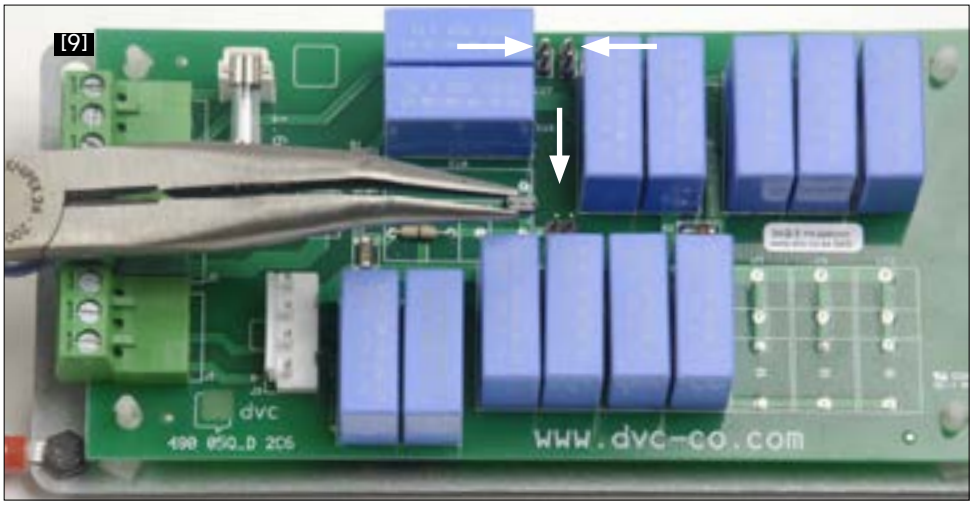
[7]



[8]



[9]

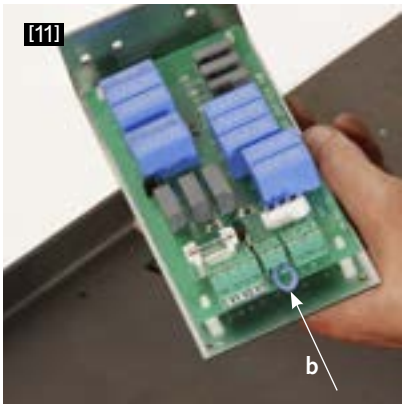


Connection of the thermal switch to the electronic circuit

The thermal switch only allows power to the fan when the temperature of the reheated air is high enough. Therefore, when lighting, the fan will only start after a few minutes to prevent unpleasant currents of cold air.

The same applies when putting out:

- Remove the shuntage (photo 12-b).
- Put the cable into the cable guide.
- Connect the thermal switch to the terminals now freed up.
- The thermal switch will later be attached to the stove.



9.4. Closing the fan's cover

Attach the electronic circuit under the front part of the access cover to the fan using 2 M4 × 8 screws with hexagonal heads (photo 1).

Position the back part of the access cover (photo 2). Push the fan right to the back. Attach the back cover at the same time as the side parts [a] forming the mouth of the fan using the 2 M4 × 12 screws.

Close the lateral openings (photo 2-a) using the two filling plates the length of which will have been adjusted to match the stove that you are installing (photo 3). Attach them using the 4 screws tx M4 × 6.

Connect the air inlet duct to the nozzle (photo 4) and attach the front part of the cover (with the electronic circuit) to the base plate. Ensure the cables of the thermal switch (photo 5-a) pass through the notch provided for this purpose and are protected by a cable guide.

The two closure sections of the fan's cover lock into place the collar of the combustion air adduction duct.

Fix the air-tight seal (photo 5 and 6) to prevent the fan disturbing combustion. Cut the excess with the cutter.

If you have not created an outside air connection, reclose the opening using the filling plate (photo 6-a)

The stove can now be installed on the base plate.

10. Positionning of the stove

Place the stove onto the plate.

The stove's lug (photo 1-a) must be lowered onto the hole (b) cut in the plate.

Fasten the stove to the plate using screws and nuts (photos 2, 3 and 4).

Put on the cover (photo 5). The hole cut in the cover should be centred in relation to the stove's smoke outlet.

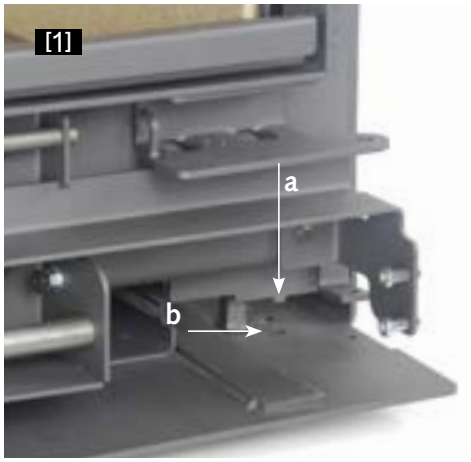
Attach the cover using the 4 screws at the front (photo 6), starting with the lower screws.

The upper part of the cover has to be fixed to the stove using a bolt provided for this purpose (photos 7 and 8).

Undo the bolt's hexagonal screw (photo 7)

Swivel it 3/4 of a turn (photo 8) and retighten.

[1]



[2]

[3]

[4]

[5]

[6]

[7]

[8]

11. Connection to the smoke flue

To avoid damage to the diverters when sweeping the chimney, we recommend putting the stainless steel bar over the smoke outlet (photo 1).

Simply put the duct into the stove's smoke outlet. Leave a 2 mm gap lengthways to allow for expansion.

[1]

[2]

12. Assembly of the thermal switch

If you have not installed a fan, go to the next section.

Push the valve as far left as possible.

Unscrew the valve cap (2 M4×6 screws) (photo 1).

Move the valve cap to the right to bring its notch into line with the slide control (photo 2) to be able to remove it.

Attach the thermal switch temporarily using the screws (photo 2).

Attach the earth ringlet by inserting a washer (provided in the fan kit fittings packet) to ensure good electrical contact (photo 3).

Put the valve cap back on. Right screw, then left screw.

[1]

[2]

[3]

13. Installation of the panel

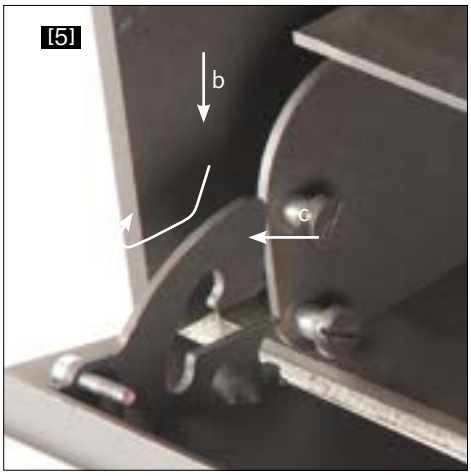
The panel is the part which protects the mechanisms in the lower part of the stove (photo 3).

The flap fits onto the stop screw (pic. 4-b) and pivots on the screw [c].

Adjust the screw (pic. 5) on the right-hand side of the flap (holding the magnet) so that:
- the magnet has sufficient force of attraction,
- and that the flap is vertical in a closed position.

The magnet attracts the filings: keep the contact parts clean!


[4]



[5]


[6]

14. Refitting the door

Refit the door on its hinges.

A spring inside the door shuts it automatically (picture 1) hook up the spring to its lug inside the stove (picture 2).


[1]


[2]

15. Graduated tablet

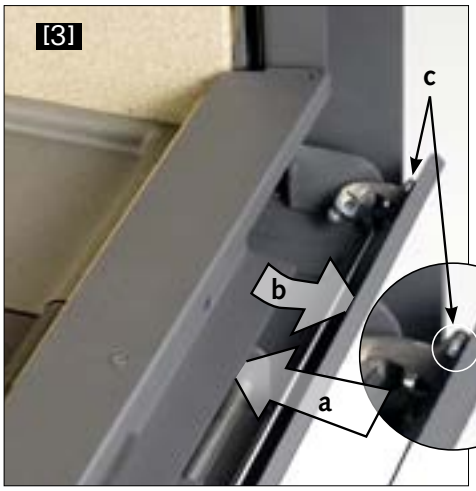
Tilt the flap (picture 1).

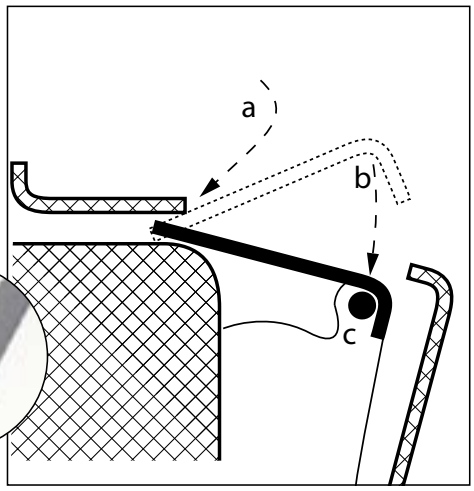
Slide in the graduated tablet – adjusted to the centre of the register – under the register hood (picture 2). It is simply placed on the 2 lateral screws.

Put the back edge of the tablet under the valve cover (photo + diagram 3-a).

The front edge of the tablet is inserted between the front part of the flap (3-b) and the 2 lateral screws (3-c).

Close the flap (picture 4).





16. When the installation of the stove is complete

Once the installation completed, 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 (spray paint, tubes of grease, tools).

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

See directions for use.

Once installation is complete, return the directions for use to the user. Fill in the guarantee certificate with him (at the back of the directions for use) and advise him to return it to the manufacturer or importer.

Ecodesign technical parameters for decentralised solid fuel heaters

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

Details of the device:

Model reference(s) :	STÛV 16 CUBE/D4/H/UP 58	Notified body / body number :	IMQ / 0051
Equivalent models :	STÛV 16 IN 58	Test report number :	CS25-0114847-01/02
Indirect heating functionality :	no	Applied harmonized standards :	EN 16510-2-1/2: 2022
Direct thermal power :	7 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	69,1	14,7	33	755	96	16,2	268	3569	94
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}	7,0	kW
Minimum thermal output (indicative)	P_{min}	3,4	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	-	105	-
Energy efficiency class	-	A	-

Characteristics	Symbol	Value	Unit
Useful efficiency (NCV as received)			
Useful efficiency at nominal heat output	$\eta_{th,nom}$	79,1	%
Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	75,4	%
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!

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

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

Details of the device:

Model reference(s) :	STÛV 16 CUBE/D4/H/UP 68	Notified body / body number :	IMQ / 0051
Equivalent models :	STÛV 16 IN 68	Test report number :	CS25-0114847-01/02
Indirect heating functionality :	no	Applied harmonized standards :	EN 16510-2-1/2: 2022
Direct thermal power :	7,4 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	P	OGC	CO	NO_x
				[x] mg/Nm^3 (13 % O_2)				[x] mg/Nm^3 (13 % O_2)			
Wood logs with a moisture content ≤ 25%	yes	no	67	14,7	34	966	96	32,3	404	3974	94
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}	7,4	kW
Minimum thermal output (indicative)	P_{min}	3,5	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	-	102	-
Energy efficiency class	-	A	-

Characteristics	Symbol	Value	Unit
Useful efficiency (NCV as received)			
Useful efficiency at nominal heat output	$\eta_{th,nom}$	77,0	%
Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	75,4	%

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!

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

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

Details of the device:

Model reference(s) :	STÛV 16 CUBE/D4/H/UP 78	Notified body / body number :	IMQ / 0051
Equivalent models :	STÛV 16 IN 78	Test report number :	CS25-0114847-01/02
Indirect heating functionality :	no	Applied harmonized standards :	EN 16510-2-1/2: 2022
Direct thermal power :	7,8 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/Nm^3 (13 % O_2)				[x] mg/Nm^3 (13 % O_2)			
Wood logs with a moisture content ≤ 25%	yes	no	67	14	34	966	82	32,3	404	3974	76
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}	7,8	kW
Minimum thermal output (indicative)	P_{min}	3,6	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	-	102	-
Energy efficiency class	-	A	-

Characteristics	Symbol	Value	Unit
Useful efficiency (NCV as received)			
Useful efficiency at nominal heat output	$\eta_{th,nom}$	77,0	%
Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	77,8	%

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!

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

Work acceptance

This document certifies the proper acceptance of the work. This form must be completed by the installer in 2 copies, 1 for the installer, 1 for the user.

The Purchaser

Name .....
First name .....
Work Adres .....
Postal code .....
E-mail Adress .....
City .....
Country .....

The installer

Compagny .....
Phone number .....
E-mail Adress .....

Your Stûv 16-cube stove

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

Flue characteristics

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

Checking the device settings:

☐ Check of flue emptiness
☐ Validation of draft
☐ Check of pellet quality

Comments: .....
.....
.....

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

THE INSTALLER
(name in full and signature)

THE CUSTOMER
(name in full and signature)

☐ Instructions and advice for lighting, use and maintenance transmitted 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

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

[NL] [DE] [IT] [EN] [FR]
This document is available in several languages:
Contact your distributor or visit www.stuv.com

stûv