skantherm®

DATA SHEET – MODEL-SPECIFIC DATA, NOTES AND INSTRUCTIONS

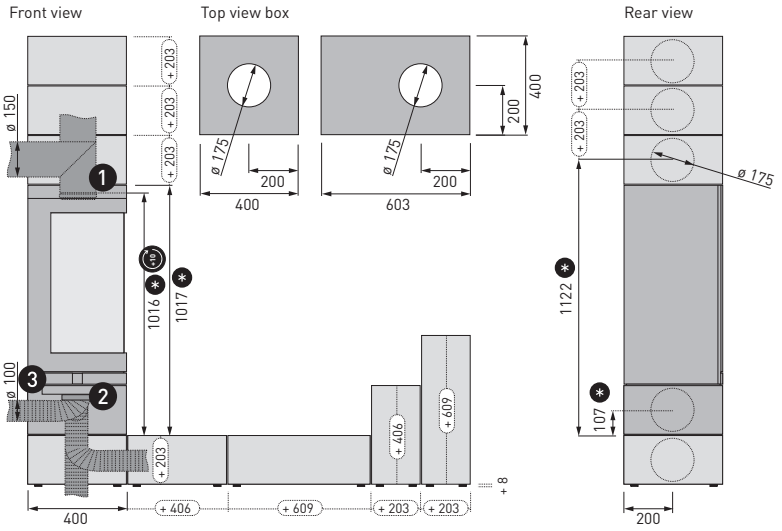
Elements 3.0 [RLU]

ENGLISH // 06.07.2026 | V-4 //
LE-NR.: 1546-1

Chimney stove for solid fuels; only use recommended fuel:	Logs (category »I«)
Type of chimney stove	independent of room air (type CA) RLU
Operation with closed fire box (construction type 1):	✓

⚠ **This stove is designed only for intermittent operation (INT).**

Weight, dimensions and other characteristics



Dimensions in mm

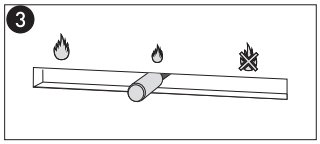
If using the rotating version of the chimney stove (optional), add 10 mm to the height measurement because of the rotary cast iron socket.

+ 203
Box dimensions incl. shadow gap (6 mm)

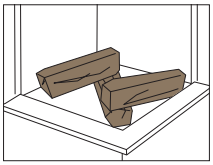
*
Incl. adjustable foot (8 mm)

90° optional: rotating (angle to the right / left):	90°
Weight of fireplace (steel, firing chamber / small box / big box):	145 / 18 / 24 kg
THERMO STONE Heat accumulator with up to...kg of storage mass:	160 kg
Fire box dimensions (h x w x d):	500 x 275 x 275 mm
Fire box opening dimensions:	1677 cm²
Pipe diameter (waste smoke):	150 mm
1 Flue connection piece (top / rear / side): Concealed flue pipe routing possible if using at least one box above the combustion chamber. Flue pipes can be connected in any direction (upwards, to the side and to the rear).	•/ - / -
Temperature rating of chimney (T rating):	T400 soot fire resistant
Max. load (chimney load, mchim):	20 kg
Fresh air connection piece diameter:	100 mm
2 Combustion air connection (rear / side / bottom): Combustion air can be connected on the side from two boxes under the combustion chamber.	• / - / •

Environmentally friendly/low-pollutant combustion during operation



Combustion air regulator setting for the operating phase of the fireplace:	„Small flame“ symbol



Fuel input per single burn: (ideal: beechwood, 3 logs, length 20 cm, positioned crosswise), approx. total 1.7 kg	total approx. 1,5 kg
Duration of single burn:	approx. 40 min

Values for calculation of the chimney according to DIN EN 13384-1 and 13384-2

Average feed pressure (P_{nom}):	12 Pa
Waste gas mass flow rate ($ø_{f,g\,nom}$):	7,7 g/s
Waste gas connection piece temperature (T_{snom}):	373 °C
Multiple flues possible (room air dependent / independent operation):	✓

📖 **Please read and follow our general assembly and operating instructions.**

◀ ENGLISH

skantherm®

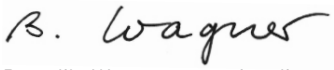
TECHNICAL DOCUMENTATION ACCORDING TO REGULATION (EU) 2015/1185

Name and address of the manufacturer:	skantherm GmbH & Co. KG; Von-Büren-Allee 16; D-59302 Oelde
Model identification:	Elements 3.0 [RLU]
Equivalent models:	/
Test reports:	RRF - 1021 24 1546 Control institute Rhein-Ruhr-Feuerstättenprüfstelle GmbH (RRF), Nr.: 1625
Harmonised standards:	DIN EN 16510-1:2022
Other applied standards or technical specifications:	DIN EN 16510-2-1:2022
Indirect heating functionality:	nein
Direct heat output:	6,9 kW
Indirect heat output:	/ kW
Characteristics when operating with the preferred fuel only	
Seasonal space heating energy efficiency η_s [%]:	65
Energy efficiency index (EEI):	99
Energy efficiency class:	A (A+++ ↑ G)

Fuel:	Preferred fuel (only one):	Other suitable fuel(s):	η_s [x %]:	Space heating emissions at nominal heat output:				Space heating emissions at minimum heat output:			
				PM	OGC	CO	NOx	PM	OGC	CO	NOx
				[x] mg/Nm³ (13% O_2)				[x] mg/Nm³ (13% O_2)			
Wood logs with moisture content ≤ 25 %:	yes	no	65	40	120	1100	120	/	/	/	/
Compressed wood with moisture content < 12 %:	no	no	/	/	/	/	/	/	/	/	/
Other woody biomass:	no	no	/	/	/	/	/	/	/	/	/
Non-woody biomass:	no	no	/	/	/	/	/	/	/	/	/
Anthracite and dry steam coal:	no	no	/	/	/	/	/	/	/	/	/
Hard coke:	no	no	/	/	/	/	/	/	/	/	/
Low temperature coke:	no	no	/	/	/	/	/	/	/	/	/
Bituminous coal:	no	no	/	/	/	/	/	/	/	/	/
Lignite briquettes:	no	no	/	/	/	/	/	/	/	/	/
Peat briquettes:	no	no	/	/	/	/	/	/	/	/	/
Blended fossil fuel briquettes:	no	no	/	/	/	/	/	/	/	/	/
Other fossil fuel:	no	no	/	/	/	/	/	/	/	/	/
Blended biomass and fossil fuel briquettes:	no	no	/	/	/	/	/	/	/	/	/
Other blend of biomass and solid fuel:	no	no	/	/	/	/	/	/	/	/	/

TECHNICAL DOCUMENTATION ACCORDING TO REGULATION (EU) 2015/1185

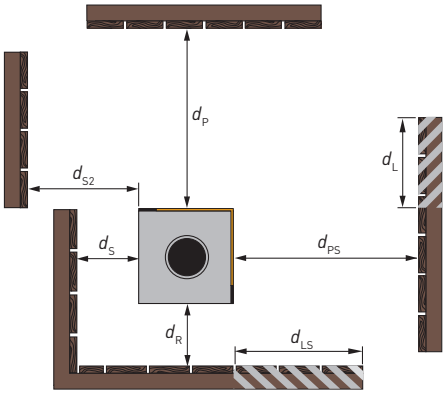
Characteristics when operating with the preferred fuel only							
Item:	Symbol:	Value:	Unit:	Item:	Symbol:	Value:	Unit:
Heat output				**Useful efficiency (NCV as received)**			
Nominal heat output:	P_{nom}	6,9	kW	Useful efficiency at nominal heat output:	$\eta_{th,nom}$	75	%
Minimum heat output (indicative):	P_{min}	N.A.	kW	Useful efficiency at minimum heat output (indicative):	$\eta_{th,min}$	N.A.	%
Auxiliary electricity consumption				**Type of heat output/room temperature control**			
At nominal heat output:	el_{max}	N.A.	kW	single stage heat output, no room temperature control:			yes
At minimum heat output:	el_{min}	N.A.	kW	two or more manual stages, no room temperature control:			no
In standby mode:	el_{SB}	N.A.	kW	with mechanic thermostat room temperature control:			no
Permanent pilot flame power requirement				with electronic room temperature control:			no
Pilot flame power requirement (if applicable):	P_{pilot}	N.A.	kW	with electronic room temperature control plus day timer:			no
				with electronic room temperature control plus week timer:			no
				Other control options			
				room temperature control, with presence detection:			no
				room temperature control, with open window detection:			no
				with distance control option:			no

Specific precautions for assembling, installation or maintenance	The fire and safety distances to combustible building materials have to be strickly observed! The fireplace must always be supplied with sufficient combustion air. Air extraction systems can interfere with the combustion air supply! For further important notes, please refer to the chapter „Important information“, page 8.
Name and signature of the person empowered to bind	 Benedikt Wagner, managing director skantherm GmbH & Co. KG; Von-Büren-Allee 16; D-59302 Oelde

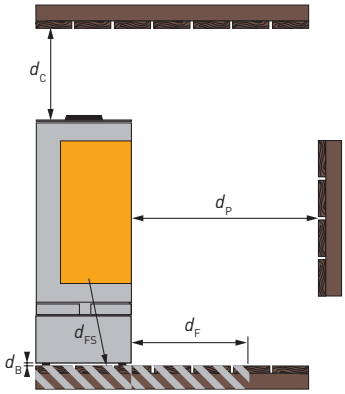
Supplementary information relevant for market surveillance	
Criterion for the end of the test cycle: (Basic ember criterion mass):	0,15 kg

FIRE SAFETY

MINIMUM DISTANCE FROM INFLAMMABLE COMPONENT PARTS (WITHOUT LATERAL EXTENSION ELEMENT)



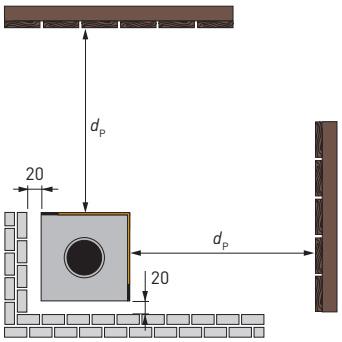
Top view of combustion chamber



Side view of combustion chamber

Distance at front in heat radiation range (d_P):	⩾ 900 mm
Distance to side wall in heat radiation area (d_{PS}):	⩾ 900 mm
Distance from floor to front (d_F):	⩾ 0 mm
Distance to side at floor level (d_{FS}):	⩾ 0 mm
Distance to rear wall (d_R):	⩾ 200 mm
Distance to side wall (d_S):	⩾ 200 mm
Distance to side wall in heat radiation area (d_{S2}):	⩾ 300 mm
To area requiring protection on side wall (d_L):	⩾ 0 mm
To area requiring protection on rear wall (d_{LS}):	⩾ 0 mm
Distance under the fireplace (d_B):	⩾ 5 mm
Distance to ceiling (d_C):	> 750 mm

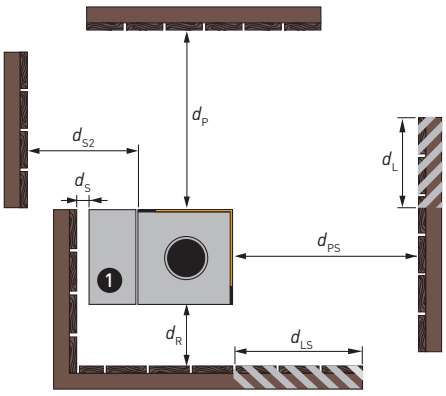
MINIMUM DISTANCE TO NON FLAMMABLE COMPONENTS



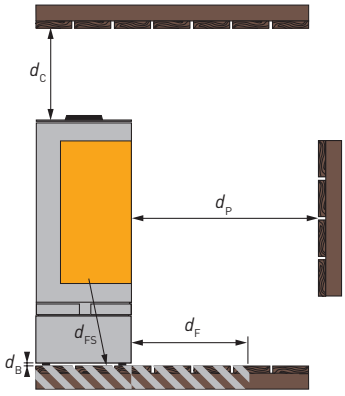
Top view of combustion chamber

The exterior side of extension elements with no flue pipes passing through can be installed at a distance of 20 mm from inflammable components or walls, as they barely heat up during operation.

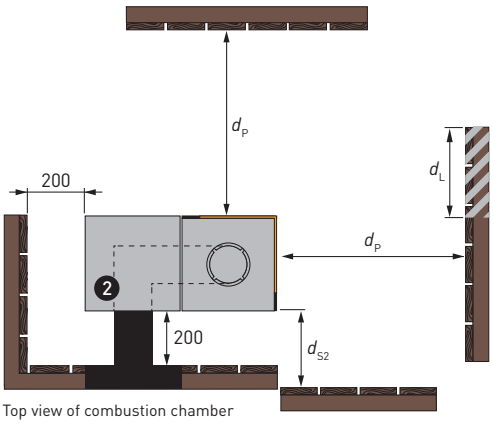
MINIMUM DISTANCE FROM INFLAMMABLE COMPONENT PARTS (WITH LATERAL EXTENSION ELEMENT)



Top view of combustion chamber with lateral extension element



Side view of combustion chamber



Top view of combustion chamber

1 Lateral extension element WITHOUT flue pipe

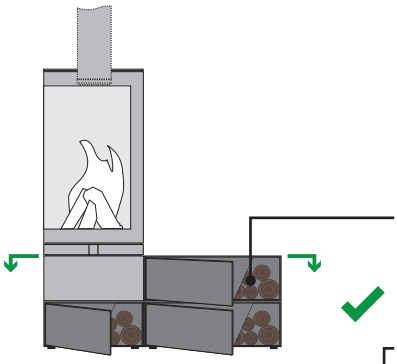
2 Lateral extension element WITH flue pipe

Distance at front in heat radiation range (d_P):	⩾ 900 mm
Distance to side wall in heat radiation area (d_{PS}):	⩾ 900 mm
Distance from floor to front (d_F):	⩾ 0 mm
Distance to side at floor level (d_{FS}):	⩾ 0 mm
Distance to rear wall (d_R):	⩾ 150 mm
Distance to side wall (d_S):	⩾ 10 mm
Distance to side wall in heat radiation area (d_{S2}):	⩾ 300 mm
To area requiring protection on side wall (d_L):	⩾ 0 mm
To area requiring protection on rear wall (d_{LS}):	⩾ 380 mm
Distance under the fireplace (d_B):	⩾ 5 mm
Distance to ceiling (d_C):	> 750 mm

Extension elements that are led through the flue pipes, must be installed at least 200 mm from the inflammable components or walls (please note the DIN standard of the flue pipe/the wall duct).

Please observe that the stated distances to combustible materials are fire protection information that does not take possible material changes caused by heat such as discoloration or stress fractures into consideration.

INSTRUCTIONS FOR USING THE BOXES AND ACCESSORIES



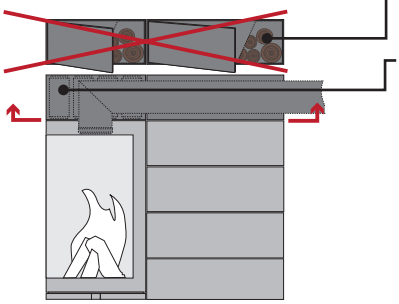
The surface of the combustion chamber and neighbouring elements, including elements that are routed through a flue pipe, can become very hot during operation. To be able to install optional accessories such as the door/TipOn drawer safely, and to safely store combustible materials such as firewood, the elements must be ventilated properly both to the front and to the side.
This is possible/not possible in the following situations:

❶ Below/laterally of the combustion chamber

The element is located below or below/laterally from the combustion chamber. Here, no significant heat transmission takes place.

❷ Above/laterally of flue pipes

The storage of combustible materials or the installation of a door/TipOn drawer unit is not possible above boxes used for the routing of stovepipes.

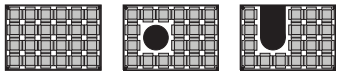


❸ Above the combustion chamber/heat accumulation stones skantherm thermostone

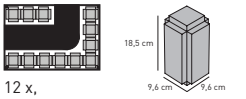
<u>Elements above the firing chamber may only be used for storage stones. The storage of objects and in particular of flammable materials is not possible.</u>
The thermostones can be integrated into an element box of a width of 40,0 cm and 60,3 cm. The weight of a thermostone is approx. 5 kg. **Please observe that the total weight of all thermostones in elements lying one above the other must not exceed 160 kg!**

Examples of weight details for elements boxes with integrated heat storage stone (top view):

16 x, ca. 80 kg | 12 x, ca. 60 kg | 10 x, ca. 50 kg | 9 x, ca. 45 kg

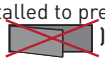


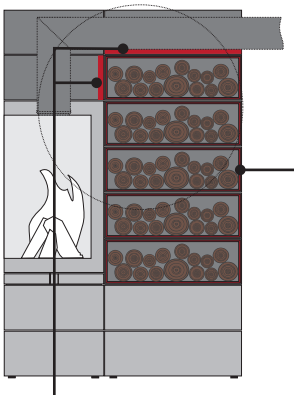
24 x, ca. 120 kg | 20 x, ca. 100 kg | 18 x, ca. 90 kg



12 x, ca. 60 kg | Art.-No. 8070000

⚠ Necessary radiation protection

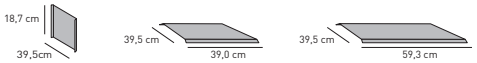
If boxes are installed on the side of the firing box and these boxes are used to store combustible material, the following accessories must be installed to prevent heat transfer **(note that the door/the TipOn drawer cannot be installed here!**  **):**



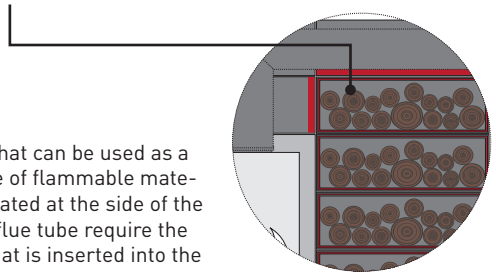
❹ Box with radiation protection insert

Art.-No. 8070154*/ 8070121 // Art.-No. 8070156*/ 8070122
*for installation in wall-mounted optic tunnel boxes and in the horizontal optic box

Tunnel box with radiation protection plate inserted

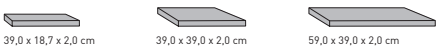


Art.-No. 8070147 // Art.-No. 8070148 // Art.-No. 8070149



For fire protection requirements, each element that can be used as a heating box or storage space (e.g. for the storage of flammable materials such as firewood) and which are directly located at the side of the firing chamber or adjacent to an element with a flue tube require the use of an additional radiation protection insert that is inserted into the element.
The radiation protection plate is required when using tunnel elements (box without rear wall).
Radiation proctection is not necessary below the combustion chamber.

❺ Box with radiation protection plate insert



Art.-No. 8070228 // Art.-No. 8070224 // Art.-No. 8070225

If an element with a flue pipe passing through it needs to be positioned above or to the side of the heating box or storage element, as a basic principle, to stop heat being transmitted to the neighbouring element, a radiation protection plate needs to be inserted and placed to the side/on the floor.

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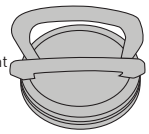
INSTALLATION INSTRUCTIONS

INSTALLATION OF THE EXTENSION ELEMENTS (OPTIONAL)

Accessories:

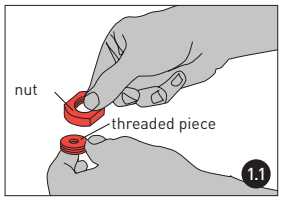
6 pcs. magnet per optical box

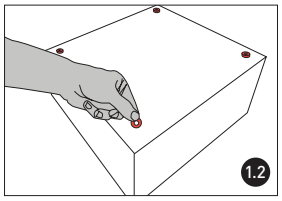
optional: 4 pcs. adjustment feet, art. #: 80702111

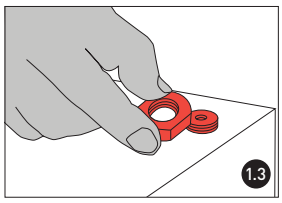


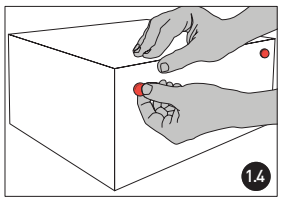
1 pc. vacuum lifting tool

optional: 12 pcs. shim









1 Installation of the 1st extension element

1.1 Mounting of the adjustment feet by gluing. An adjustment foot consists of an internal threaded piece and the pertaining nut. The threaded piece is additionally provided with an adhesive layer on one side. Remove the nut from the threaded piece and put it aside.

1.2 Remove the protective paper from the adhesive layer. You can now carefully position the threaded piece with the adhesive layer as shown. Press the threaded piece firmly in order to make sure it will stick to the bracket. For the three other adjustment feet of the extension elements, proceed the same way as described above.

1.3 Now, screw the nuts on the mounted threaded plates and turn the extension feet upright on its adjustment feet.

1.4 Now, position two magnets on the lateral surfaces of the external element that you intend to add to the already existing stove combination.

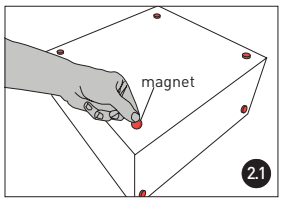
Erect the extension element at a distance of approx. 1.5 to 2 cm to the final position. Now, push the extension element carefully towards the fireplace. The magnets now cling audibly to the combustion chamber. Using a flat wrench (width 30 mm) you can now align the extension element with regard to its height.

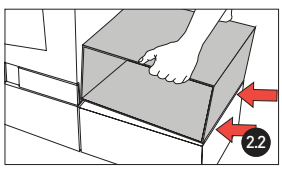
⚠ Warning: Magnets

The magnets must be attached. If not, it can lead to unwanted heat transfer to the extension elements.

⚠ Pace Maker

Magnets may have an impact on the function of pace makers and implanted defibrillators. As a person concerned you should keep a sufficient distance to such magnets. Please warn other people wearing such devices before they approach the magnets.





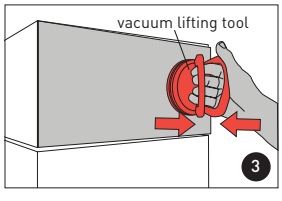
2 Installation of one further extension element

2.1 Carefully position four magnets as described under step **1.4** .

Now, determine the lateral surface that is to be placed adjacent to the firing chamber or another extension element. Place the magnets in two corners. Make sure the surface is nonmagnetic. Rotate the extension element onto the four magnets.

2.2 Now, lift the extension element into that position where it is to be mounted. Align one of the outer edges of the extension element in such a way that it is flush with the outer edge of the extension element below and tilt the extension element slowly onto the magnets. It is very important to work with precision since the subsequent alignment is possible only to a small extent.

Tip: If you install five or more decor boxes above one another, small height differences can be compensated for with the shims included. To do so, position the shims on the magnets in each case.



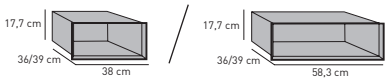
3 Removal of the lid

A lid can be removed using the vacuum lifting tool supplied. Place the vacuum lifting tool carefully near the external edge of the lid tool. Press both brackets together. The lid can now be pulled out of the box. **Please loosen the vacuum lifting tool from the lid immediately in order to avoid damage to the paintwork.**

The use of a vacuum lifting tool is not needed for the insertion of a lid. The sheet is simply pushed into the open side of the extension element.

INSTALLING THE HEAT SHIELD INSERT (OPTIONAL)

Accessories:

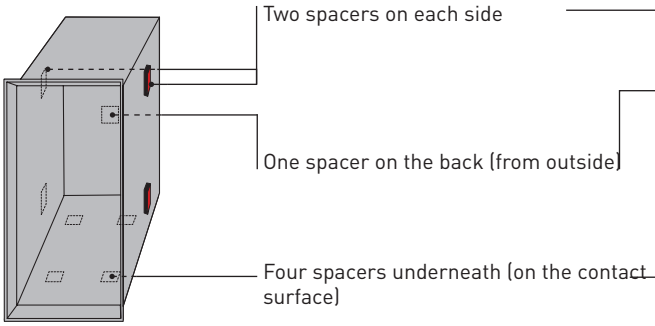


1 × heat shield insert in the required size

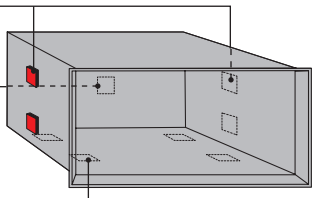
9 × spacers per heat shield insert, self-adhesive

To ensure adequate air circulation between the heat shield insert and the inner walls of the decor boxes, a total of nine spacers must be affixed **to the outer surface of the heat shield insert.** The positions of the spacers depend on the orienta-tion of the decor boxes.

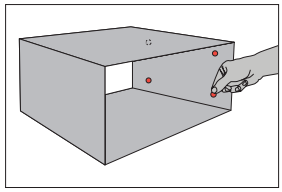
VARIANT 1
HEAT SHIELD INSERT IS INSTALLED IN A DECOR BOX THAT IS UPRIGHT:

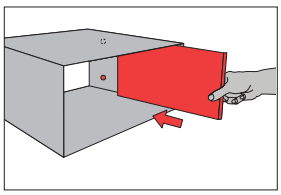


VARIANT 2
HEAT SHIELD INSERT IS INSTALLED IN A DECOR BOX THAT IS LYING FLAT:

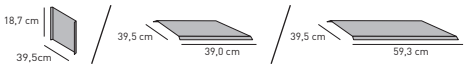


INSTALLING THE HEAT SHIELD PANEL (OPTIC TUNNEL BOX , OPTIONAL)





Accessories:

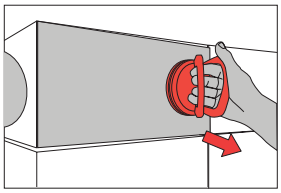


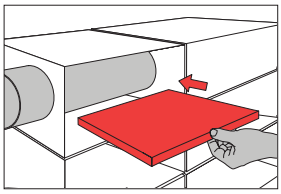
1 × heat shield panel in the required size

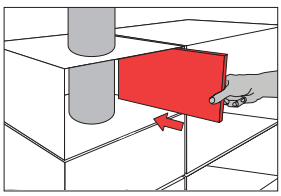
4 × magnets per heat shield panel

Depending on the position of the decor tunnel box, using the box as a storage unit may require the installation of a heat shield panel that ensures adequate air circulation to the inner walls of the de-cor tunnel box. First, position the four magnets enclosed on the inner surface of the box onto which the panel will be installed. The magnets serve as spacers and also help to fix the panel in place. You can now insert the heat shield panel into the decor tunnel box. The chamfered edges of the panel should point towards the open sides of the box.

INSTALLING THE HEAT SHIELD PLATE (OPTIONAL)







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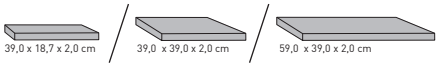

1 × heat shield plate in the required size

Remove the inspection panel with the suction lifter (ensure that the surface of the suction lifter is free of grease!) and lay it to one side. **Remove the suction lifter from the inspection panel promptly to avoid damaging the painted surface!**

Insert the plate into the box in the chosen position.

You can now replace the inspection panel in the box. The suction lifter is not required for this step.

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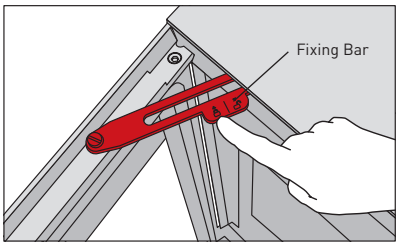
OTHER EQUIPMENT: FIXING BAR



For cleaning purposes, the open stove door can be locked with a fixing bolt. Push the bolt back while the door is wide open. The bolt clicks into place. As soon as the opening angle is increased again, the bolt returns into its initial position and the door closes automatically.

⚠ IMPORTANT INFORMATION ⚠

Installation:
It is imperative that the chimney stove be installed in strict conformity with any prevailing national and European standards as well as any applicable local regulations. Please contact your local chimney sweep prior to installing your chimney stove.

Initial operation:
Please absolutely ensure you read chapter 4.1 of the general instruction manual.

Fire safety:
Always maintain the specified safety distances from flammable components and materials.

The surfaces and controls can become hot during operation. Use a heat-resistant glove if necessary.

Except when lighting the fire, refilling fuel and sweeping out ash, the firebox and (optional) ash pan must be kept shut at all times.

Ventilation of room and chimney stove:
Always ensure good general ventilation of the room where the fireplace is installed to ensure an adequate level of oxygen in this room.
To ensure optimum indoor air quality, we recommend supplying at least
50 m^3/hour of fresh outside air per kilowatt hour of nominal heat output.
Never close the combustion air inlet vents on the stove, or on the stove's supply air duct or the convection shafts.

For stoves with an external air supply (with appropriate certification), please also note the following instructions:

- **The minimum size of the room with the fireplace should be 80 m3.**
- **skantherm models that are certified for use with an external air supply must not be installed in rooms with a controlled ventilation system unless the air extraction part of this system does not generate a negative pressure higher than 8 Pa.**
- **Before lighting the stove, always check the stove for leaks affecting its replaceable wear parts like seals, the ash pan, the closing mechanism, stove pipe connector, etc.**

Cleaning:
Make sure to clean your chimney stove at regular intervals. This also applies to emptying the ash tray*/ash box* and cleaning the shaking grate*/ retractable grate* (*depending on model). Also make sure to clean the connection pieces and flues at least once a year and to apply a heat resistant lubricant on all moving parts such as hinges at least once a year, too. Use a damp cloth to clean window glasses. Contact your local chimney sweeper for professional cleaning of your chimney at regular intervals.

The fireplace is not allowed for waste incineration!

FOR DETAILED INFORMATION PLEASE CONSULT OUR GENERAL INSTALLATION & OPERATION MANUAL!

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