

Beo

Chimney stove for solid fuels; only use recommended fuel:

Logs [category »I«]

Type of chimney stove

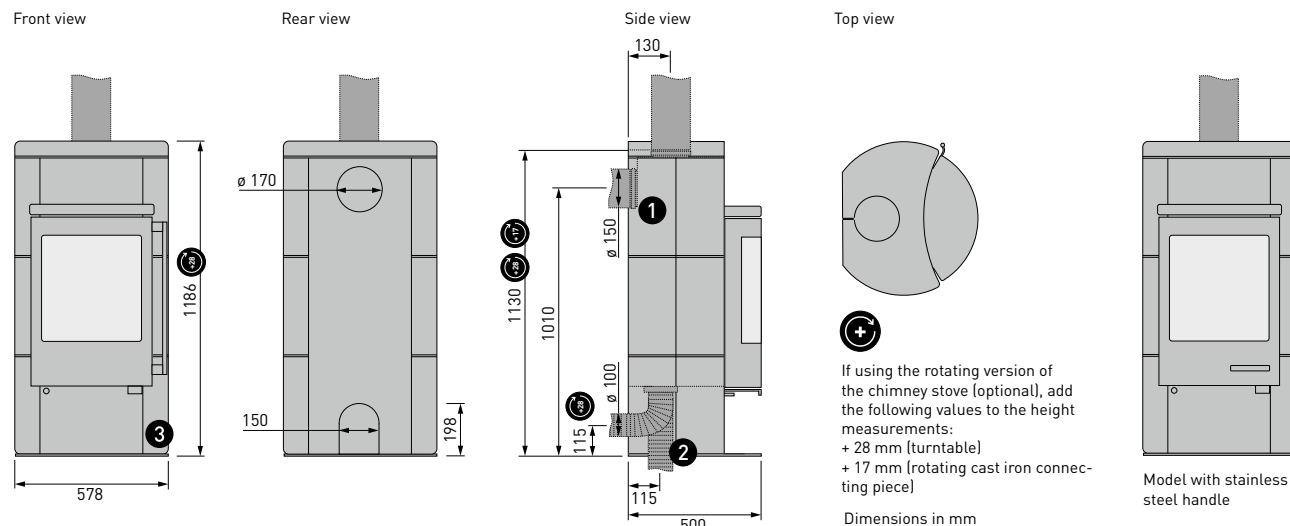
room air dependent (type BE)

Operation with closed fire box (construction type 1):

✓

! This stove is designed only for intermittent operation (INT)!

Weight, dimensions and other characteristics



60° optional: rotating (angle to the right / left): 30° / 30°
Weight of fireplace (steel / stone): 159 kg / 260 kg

THERMO STONE Heat accumulator with up to...kg of storage mass: 85 kg
Fire box dimensions (h x w x d): 350 x 350 x 370 mm
Fire box opening dimensions: 1040 cm²
Pipe diameter (waste smoke): 150 mm
1 Flue connection piece (top / rear): •/•
Temperature rating of chimney (T rating): T400 soot fire resistant
Max. load (chimney load, m_{chim}): 0 kg (not tested)
Fresh air connection piece diameter: 100 mm
2 Combustion air connection (rear / bottom): •/•

Environmentally friendly/low-pollutant combustion during operation

3 Combustion air regulator setting for the operating phase of the fireplace: „Small flame“ symbol
Fuel input per single burn: approx. total 1,4 kg
(ideal: beechwood, 2 logs, length 17 cm, Position as shown on the left)
Duration of single burn: approx. 45 min

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

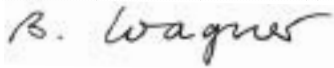
Average feed pressure (P_{nom}): 12 Pa
Waste gas mass flow rate (q_{lg, nom}): 6,1 g/s
Waste gas connection piece temperature (T_{snom}): 313 °C
Shared chimney flues admissible (only when operation dependant from ambient air): ✓

i Please read and follow our general assembly and operating instructions!

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:	Beo
Equivalent models:	/
Test reports:	RRF - 1021 24 1598 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:	no
Direct heat output:	6 kW
Indirect heat output:	/ kW
Characteristics when operating with the preferred fuel only	
Seasonal space heating energy efficiency η_s [%]:	69
Energy efficiency index (EEI):	104,6
Energy efficiency class:	

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/Nm ³ (13% O ₂)				[x] mg/Nm ³ (13% O ₂)			
Wood logs with moisture content ≤ 25 %:	yes	no	69	40	120	1250	200	/	/	/	/
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	/	/	/	/	/	/	/	/	/

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	kW	Useful efficiency at nominal heat output:	$\eta_{th,nom}$	79	%
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 6.						
Name and signature of the person empowered to bind	 Benedikt Wagner, managing director skantherm GmbH & Co. KG; Von-Büren-Allee 16; D-59302 Oelde						

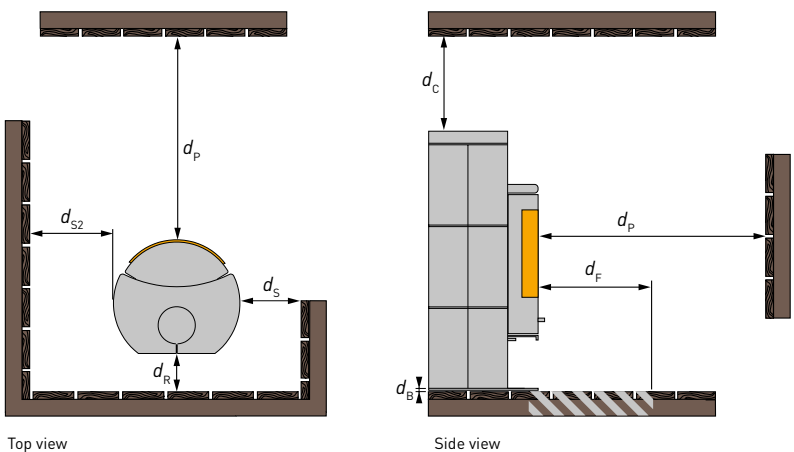
Supplementary information relevant for market surveillance	
Criterion for the end of the test cycle (Basic ember criterion mass):	0,14 kg



FIRE SAFETY



MINIMUM DISTANCE FROM
INFLAMMABLE COMPONENT PARTS



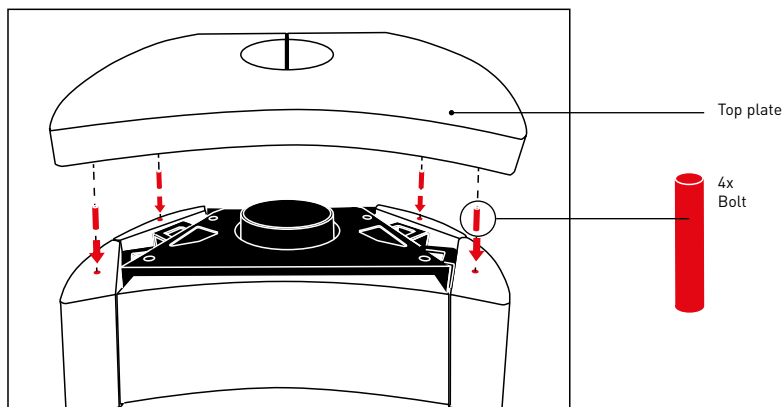
Distance at front in heat radiation range (d_P):	≥ 1400 mm
Distance from floor to front (d_C):	≥ 0 mm
Distance to rear wall (d_R):	≥ 350 mm
Distance to side wall (d_S):	≥ 230 mm
Distance to side wall in heat radiation area (d_{S2}):	≥ 550 mm
Distance under the fireplace (d_B):	≥ 0 mm
Distance to ceiling (d_C):	> 750 mm



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.

INSTALLATION INSTRUCTIONS

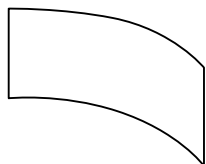
FITTING THE TOP PLATE



FITTING THE TOP PLATE

As delivered from the factory, the top plate is simply laid on top of the stove. To fix the top plate in place, you will require the four locking pins included with the stove. First, remove the plate and lay it to one side. Now insert the four locking pins into the holes drilled into the stove. Now place the top plate back onto the stove body. The locking pins now slide into the matching holes on the top plate, locking it securely into place.

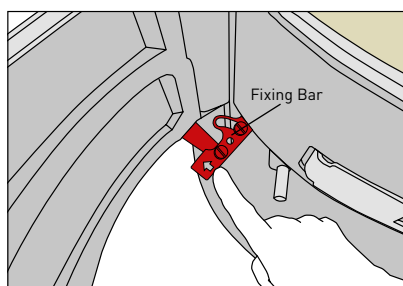
COVER PLATE



COVER PLATE

A cover plate is put into the firewood compartment and serves to conceal the fresh air pipe in case of external supply of combustion air.

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 m³/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.

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!

skantherm®

SKANTHERM GMBH & CO. KG

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