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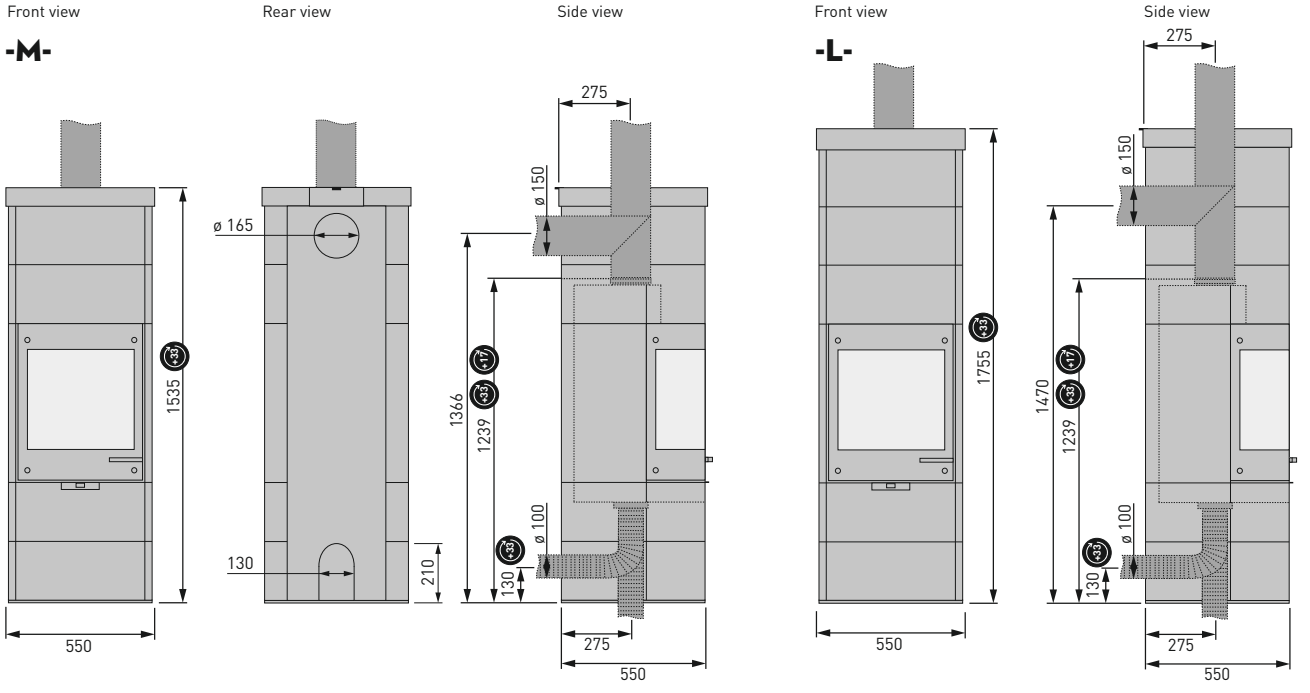
MODEL

MILANO STEIN 2.0

Chimney stove for solid fuels; only use recommended fuel:	Split logs
Operation with closed fire box (construction type 1):	✓



If using the rotating version of the chimney stove (optional), add the following values to the height measurements: + 33 mm (turntable), + 17 mm (rotating cast iron connecting piece)

Dimensions in mm

Weight, dimensions and other characteristics

60° optional: rotating (angle to the right / left):	60° / 60°
Weight of fireplace (stone):	m: 474 kg / l: 553 kg
THERMO STONE Heat accumulator with up to...kg of storage mass:	m: 55 kg / l: 55 kg
Fire box dimensions (h x w x d):	330 x 330 x 270 mm
Fire box opening dimensions:	990 cm²
Pipe diameter (waste smoke):	150 mm
Flue connection piece (top / rear):	• / •
Fresh air connection piece diameter:	100 mm
Combustion air connection (rear / bottom):	• / •

Min. distance from combustible component parts

Sides:	350 mm
Rear:	250 mm
Front (within the radiation area of the front glass):	1000 mm

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

Average feed pressure:	12 Pa
Waste gas mass flow rate:	5,5 g/s
Waste gas connection piece temperature:	300 °C
Waste gas temperature:	253 °C
RLU Multiple flues possible (room air dependent / independent operation):	✓ Z-43.12-211
Shared chimney flues admissible:	✓

⚠ THIS STOVE IS NOT A LOW BURNING STOVE! ⚠

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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:	Milano Stein 2.0
Equivalent models:	/
Test reports:	RRF - 40 12 2953 + P8-017/2012 Control institute Rhein-Ruhr-Feuerstättenprüfstelle GmbH (RRF), Nr.: 1625 Control institute Fraunhofer Institut für Bauphysik (IBP), Nr.: 1004
Harmonised standards:	DIN EN 13240:2001/A2:2004/AC:2007
Other applied standards or technical specifications:	CEN/TS 15883:2010
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 [%]:	80 %
Energy efficiency index (EEI):	106,0
Energy efficiency class:	A

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	80	≤ 40	≤ 120	≤ 1500	≤ 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	/	/	/	/	/	/	/	/	/

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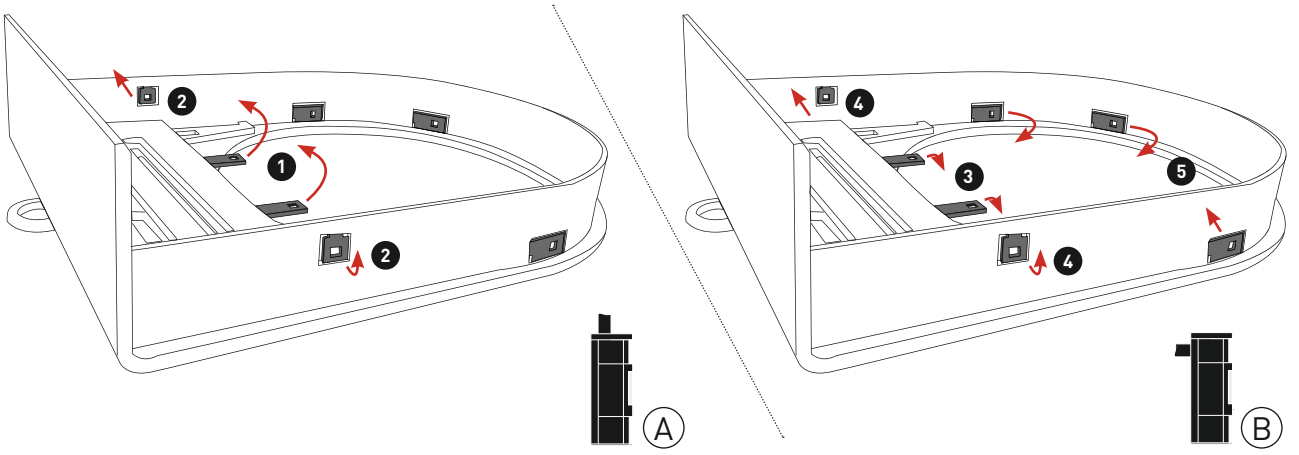
Characteristics when operating with the preferred fuel only							
Item:	Symbol:	Value:	Unit:	Item:	Symbol:	Value:	Unit:
Heat output				**Useful efficiency (NCV as received)**			
Nominal heat output:	P_{nom}	6,0	kW	Useful efficiency at nominal heat output:	$\eta_{th,nom}$	80	%
Minimum heat output (indicative):	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 17.						
Name and signature of the person empowered to bind	 Benedikt Wagner, managing director skantherm GmbH & Co. KG; Von-Büren-Allee 16; D-59302 Oelde						

CONVECTION AIR REGULATOR

INSTALLING THE CONVECTION AIR REGULATOR



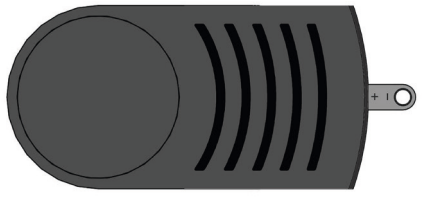
VARIANT A: TOP FLUE PIPE CONNECTION
Before inserting the convection air regulator into the body, bend the tabs using a screwdriver or pliers in the directions indicated in points 1 and 2. Turn the air regulator upside down and insert it into the provided opening in the body.

1. Bend the two tabs upwards so that you can guide the flue pipe through.
2. Bend the tab outwards slightly. The convection air regulator now sits securely in the stone.

VARIANT B: REAR FLUE PIPE CONNECTION
Before inserting the convection air regulator into the body, bend the tabs using a screwdriver or pliers in the directions indicated in points 3, 4 and 5. Turn the air regulator over and insert it into the provided opening in the body. Now insert the metal sheet insert.

3. Bend the two tabs downwards slightly so that the metal sheet insert can sit on top.
4. Bend the tab outwards slightly. The convection air regulator now sits securely in the stone.
5. Bend the tabs inwards slightly so that the metal sheet insert can sit on top.

HANDLING OF THE CONVECTION AIR REGULATOR



The quantity of convection air which flows through the upper part of the stove is controlled by means of the convection air regulator (on the upper edge on the back of the stove). The heat being generated from the stove can be absorbed more quickly by the accumulating stones and then spent over a longer period of time to the room if the convection air is reduced or if the regulator is being closed (-). In contrast, if convection air is opened (+), the heat is released faster to the environment at the installation site. For a long lasting and steady heat emission we recommend you initially to let the convection air opened (+) and to close (-) it when reaching the working temperature of the stove.

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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.

This skantherm fireplace model is suitable for integration into an alcove/cladding provided the safety distances indicated are observed.

Installation of chimney stove:
Make sure that the floor's carrying capacity is sufficiently high. In case of inadequate carrying capacity, suitable adjusting measures (e.g. plate for load distribution) are to be taken.

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

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.

Ventilation of room and chimney stove:
Please ensure sufficient ventilation of the room. Never close air supply openings or convection shafts of the stove.

The fire chamber door of a stove operating independently of ambient air always has to be kept closed as otherwise, the operation independent of ambient air cannot be guaranteed!

The following information should also be kept in mind regarding the supply of combustion air to room-sealed wood-burning stove models:
The stove can either be connected directly outwards with a combustion air conduit or to the air channel of an air exhaust chimney– LAS- (type: FC_{61x}). The pressure loss of the combustion air conduit may not be higher than 3 Pa. When using a flexible aluminium tube, please ensure that the pipe is protected against mechanical damages. The combustion air should be lockable outwards with an air damper and the position of the air damper should be visible in the installation room. Combustion air conduit as well as the connection piece need to be airtight.

The fireplace is not allowed for waste incineration!

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

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