

Installation Instruction



C i10/ C i20

Contura

EC Declaration of conformity

Contura www.contura.eu

MANUFACTURER

Name NIBE AB / Contura
Address Box 134, Skulptörvägen 10, SE-285 23 Markaryd
Place of manufacture Markaryd, Sweden

PRODUCT

Product type Insert lit with solid fuels
Type designation Contura Insert 10 and 20
Standard EN 13229
Intended for use Heating of living accommodation
Fuels Wood logs
Special conditions None

CE-MARKING	Ci10	Ci20
Nominal output	9 kW	10kW
Fuel type	Wood logs	Wood logs
Flue gas temperature	265° C	280° C
Energy efficiency	81%	81%
Emission of CO	0,09%	0,07%

Installation distances See installation instructions

Appendix

Lighting and installation instructions



Niklas Gunnarsson
Business area manager NIBE STOVES



Manufacturer's declaration

The inserts are approved by the Swedish National Testing and Research Institute, SP SITAC and fulfils the applicable rules for CE marking. Manufacture of the product has taken place in accordance with those documents that are the basis for the relevant type approval certification and the required manufacturing checks.

A warm welcome to Contura.

A warm welcome to the Contura family. We hope you will get a great deal of pleasure from your new stove. As a new owner of a Contura stove, you have secured a product with timeless design and long service life. Contura also has a combustion process that is both environmentally friendly and efficient, for the best heat production.

Read through these installation instructions carefully before installation. Read how to best light your stove in the lighting instructions.

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NOTE!

Report installation of a stove to your local authority.

The owner of the house is personally responsible for ensuring compliance with the mandatory safety requirements and must have the installation approved by a qualified inspector. Your local chimney sweep must also be informed about the installation as this will affect the routines for regular chimney-sweeping services.

WARNING!

During operation some of the surfaces of the inserts become extremely hot and can cause burn injuries if touched. Be aware of the strong heat radiated through the hatch glass. Placing flammable material closer than the safe distance indicated may cause a fire. Pyre lighting can cause quick gas ignition with the risk of damage to property and personal injury.

Technical Data

Model	i10	i20
Power output	6-12 kW	6-12 kW
Nominal output	9 kW	10 kW
Efficiency	81%	

Weight (kg)	215	240
Width (mm)	785	685
Depth (mm)	515	515
Height (mm)	1315	1535

Connector diameter Ø200 mm ext.

Type approved in accordance with:
European standard EN-13229

DIN plus

Bauart 1

15A B-VG

Test report no. i10: RRF-29 09 2077,

i20: RRF-29 09 2078

General

This manual contains instructions about how the Contura i10 and i20 must be constructed and installed. In order for the Insert's function and safety to be guaranteed, we recommend that the installation is carried out by a professional. Our Contura dealers can recommend suitable technicians, information about our dealers can be found at www.contura.eu

Instructions for lighting are also supplied with the insert. Read them carefully and keep them safe for future use.

The inserts are type approved and can be connected to a chimney dimensioned for a flue gas temperature of 350°C, the external diameter of the connector is Ø200 mm. Supply air from the open air should be used as combustion air. Follow the recommendations for cross section areas for convection air.

Structural support

Check that wooden joists have the sufficient load capacity for the insert, chimney and construction parts that are used when recessing. A completed installation can usually be positioned on a normal wooden joist in a single-family house as long as the total weight does not exceed 400 kg.

Hearth plate

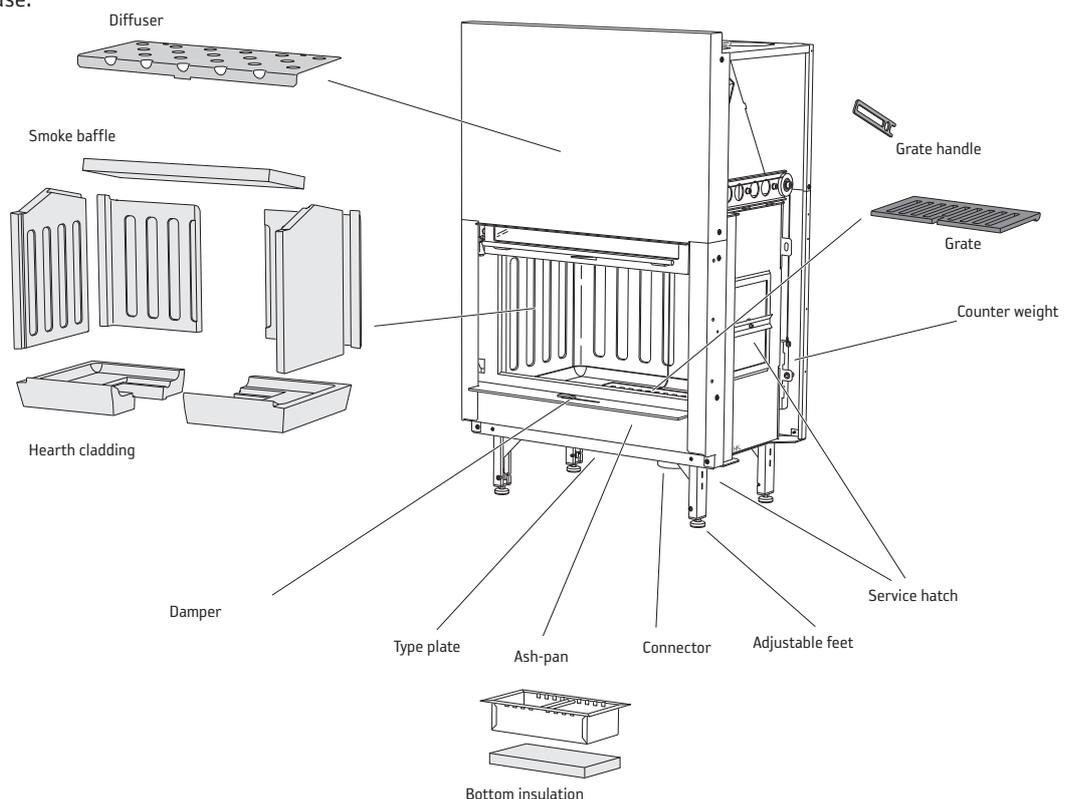
If the floor under the stove is flammable, it must be protected by a non-flammable material e.g. natural stone, concrete or 0.7 mm thick metal. The floor in front of the hearth opening must be protected against any falling embers using non-flammable material that covers an area at least 300 mm in front and 100 mm along each side of the hatch opening. A painted metal or toughened glass hearth plate is available as an accessory.

Chimney

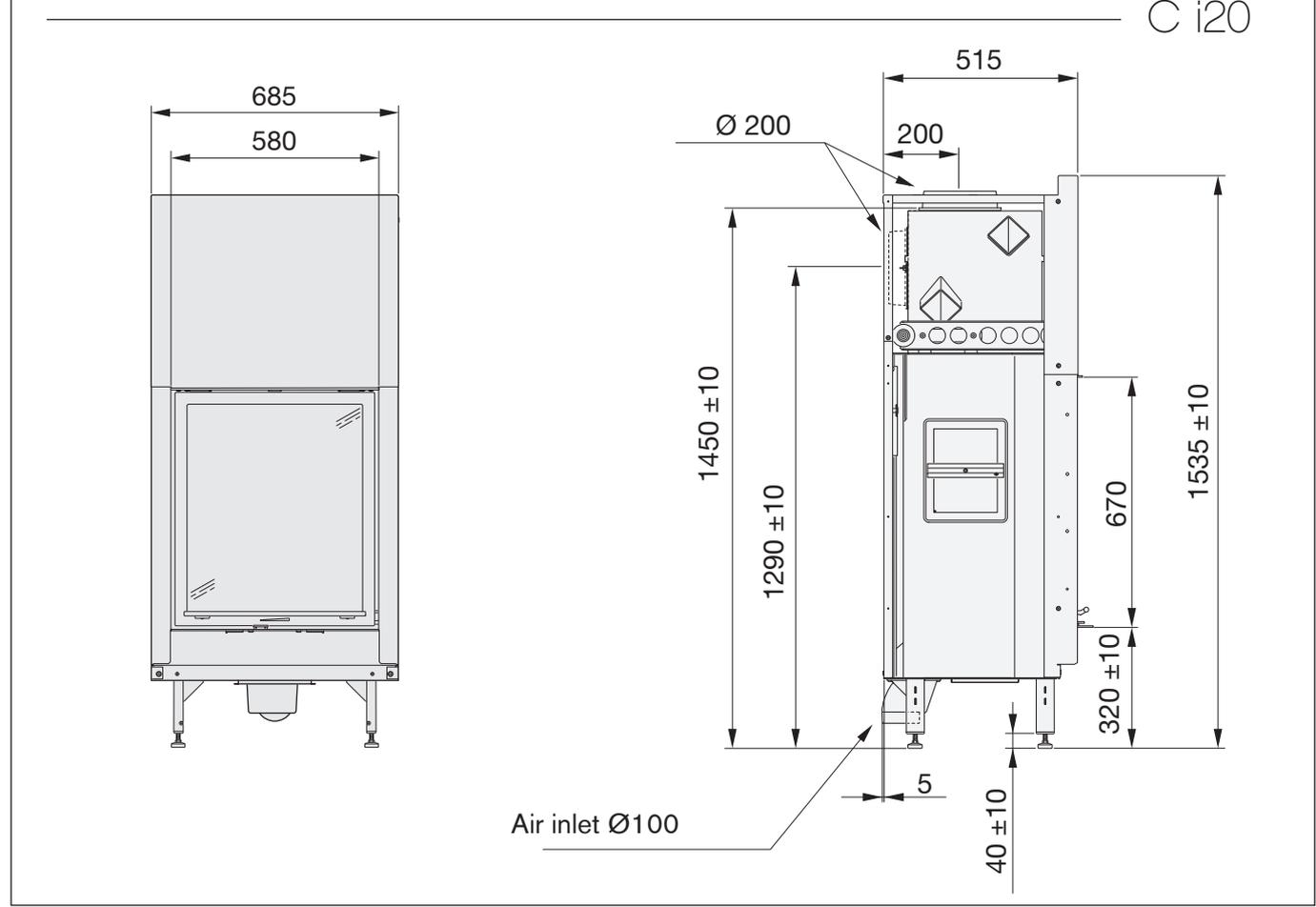
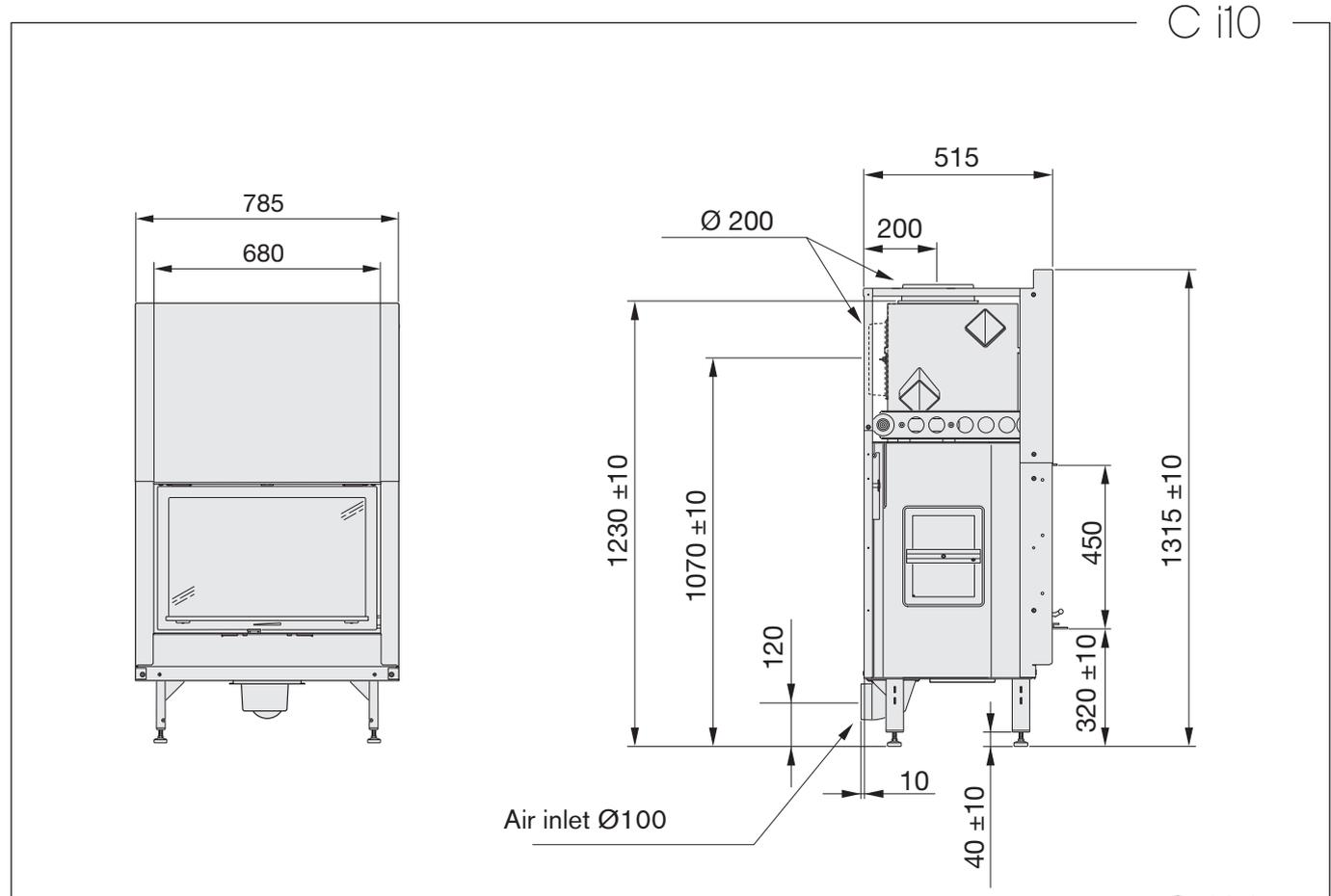
The insert requires a draft in the chimney of at least -12 Pa. The draft is affected both by the length and area of the chimney, and by how well sealed it is.

- Once the lighting phase is complete, this insert must be operated with the door closed because of the risk of smoke entering the room. Always open the door carefully and slowly to prevent blow back because of the changing pressure in the stove.
- Carefully check that the chimney is sealed and that there is no leakage around soot hatches and flue connections.

Note that a flue with sharp bends and horizontal routing reduces the draught in the chimney. Maximum horizontal flue is 1 m, on the condition that the vertical flue length is at least 5 m. It must be possible to sweep the full length of the flue and the soot hatches must be easily accessible.



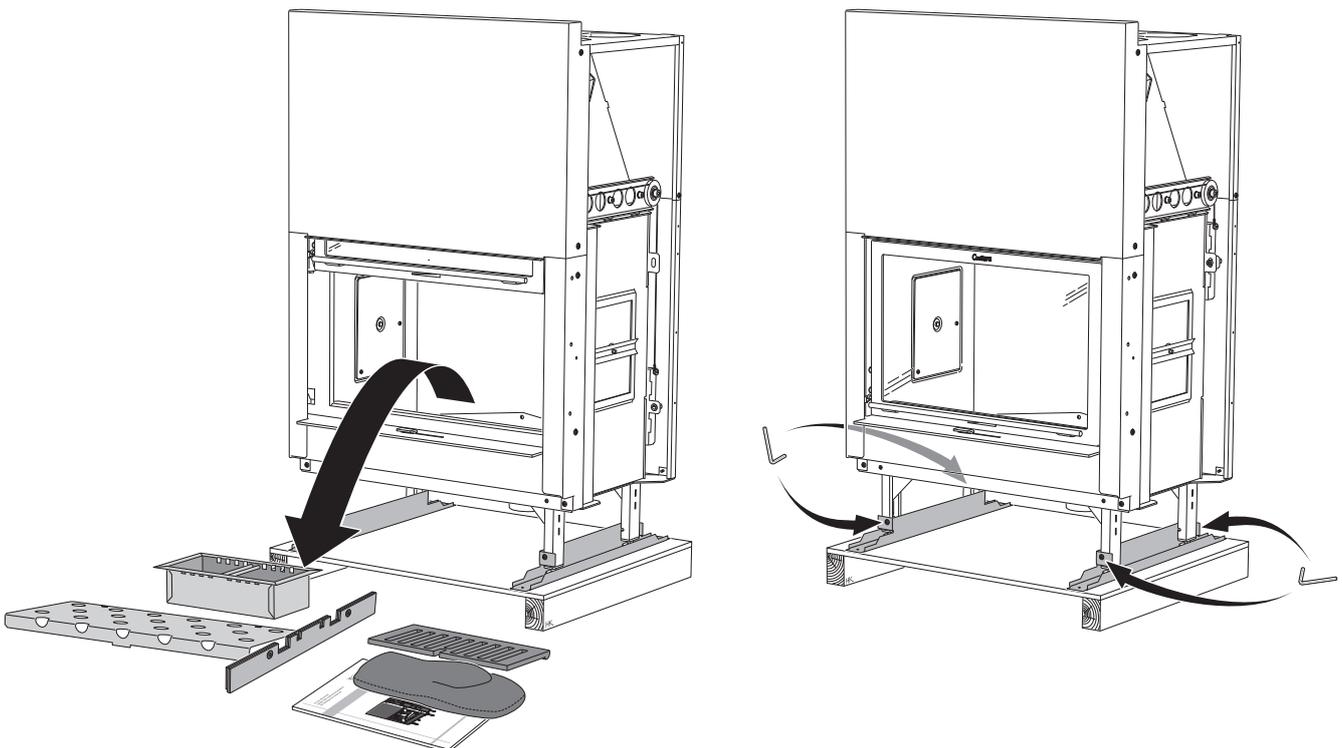
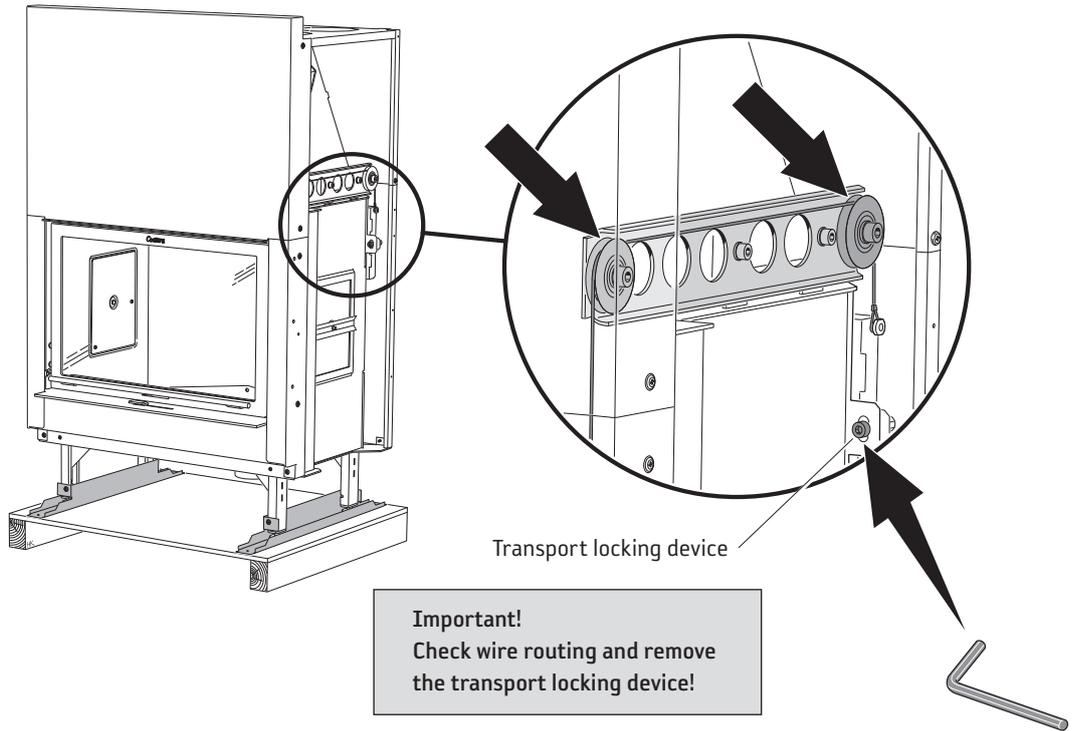
Important dimensions



Prior to installation

Unpacking and removing loose parts

Before moving the insert, the loose parts inside the insert should be removed by removing the screws, which makes up the transport locking device for the hatch's counter weight. Check that both wires are in the grooves for the sheaves before the hatch is opened and the loose parts can be removed. Before moving the insert from the pallet, transport lock the hatch again by reinstalling the screws on the counterweight. The insert is secured to the pallet via two runners, slacken off the screws and bend the mounting lugs to the side, reinstall the screws on the legs before removing the insert from the pallet.



Function check

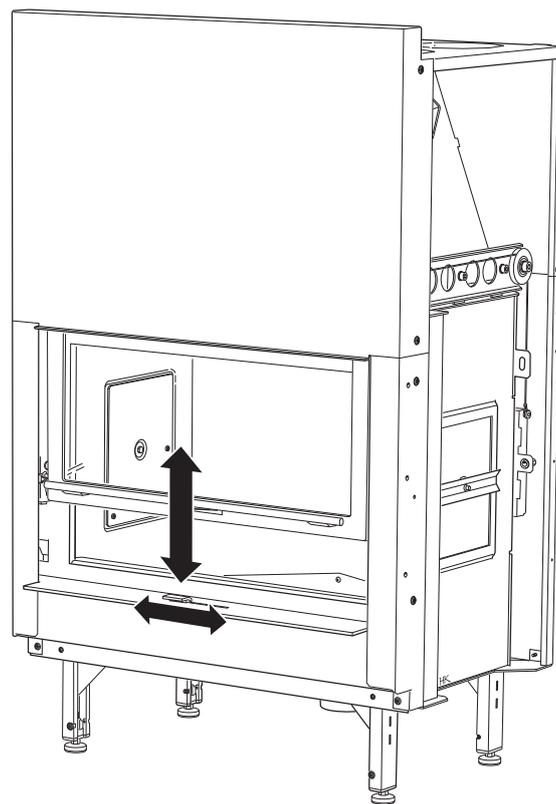
Perform a function check on the Insert as follows:

Use the adjustable feet to level the insert. Slacken off the two transport screws that hold the counter weight and at the same time check that both wires are in the sheaves. Check that the hatch can be opened and closed.

Check that the damper knob can be moved back and forth to the max and min marks on the hatch.

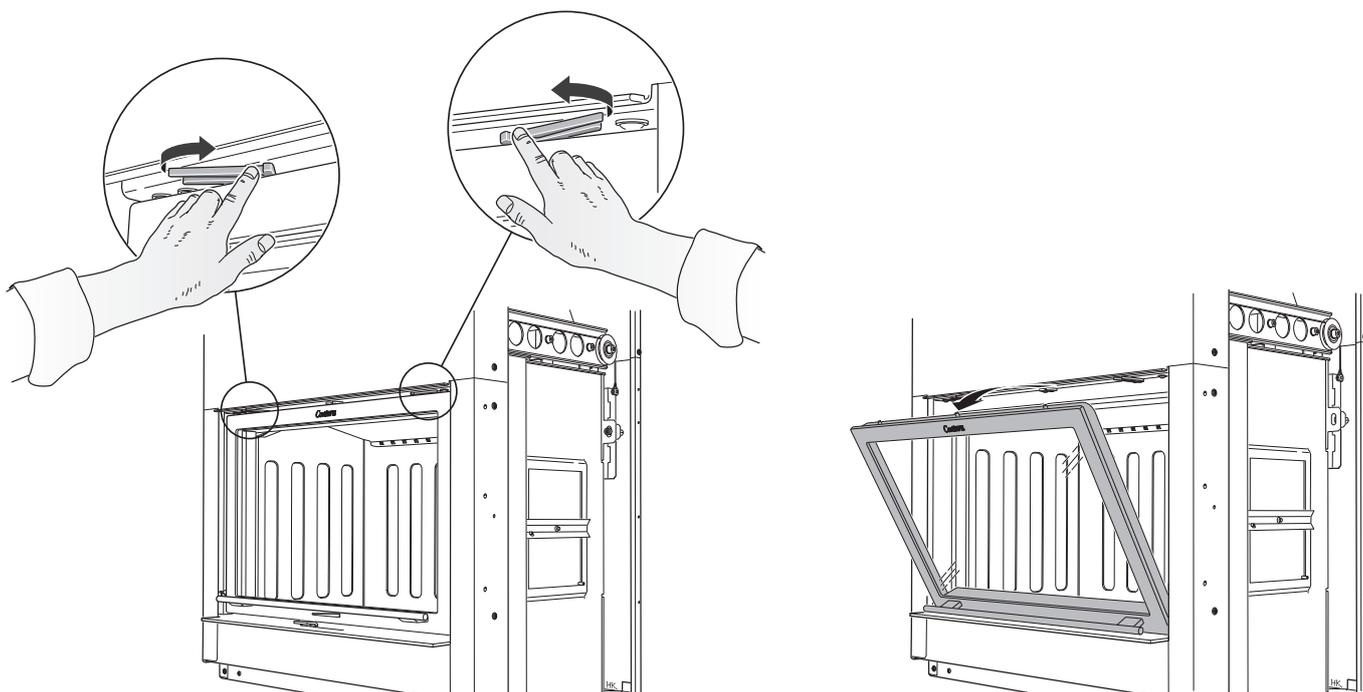
Important!

The hatch runners are lubricated at the factory, with special grease that can withstand high temperatures. This type of grease is usually difficult to find on the market and we recommend contacting a Contura dealer to order this special grease when lubricating the runners.



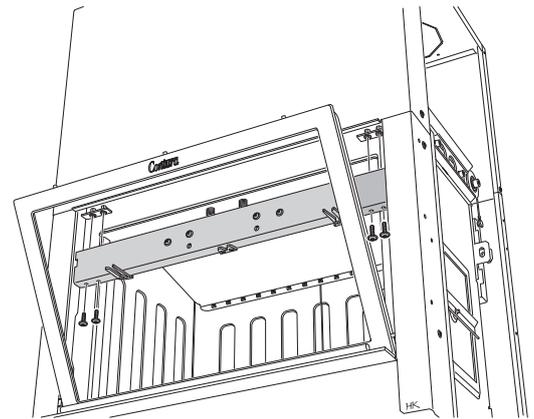
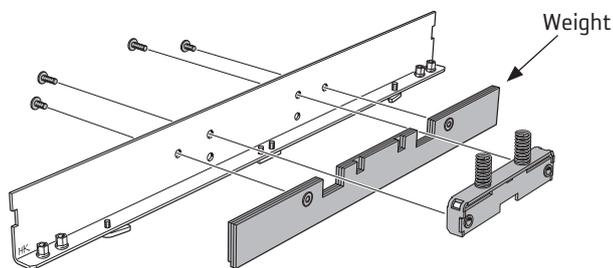
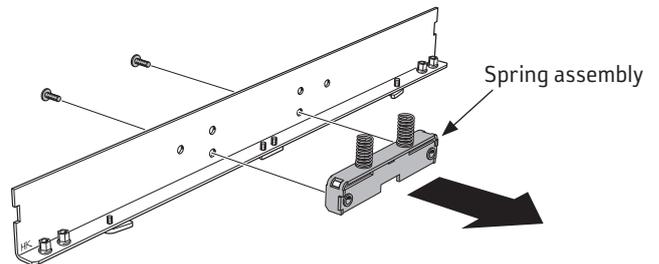
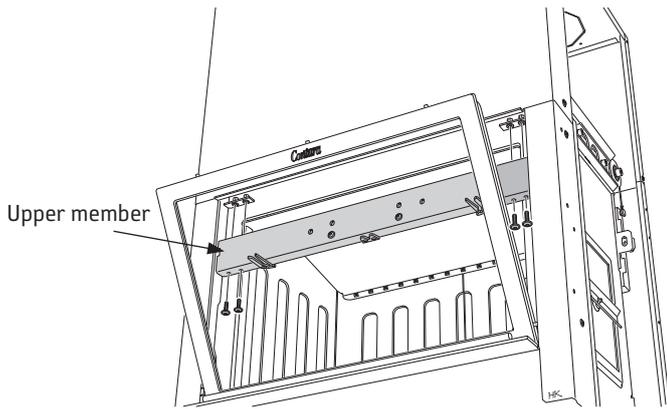
Cleaning the hatch glass

If necessary, the hatch can easily be cleaned of soot or ash. Open the two catches by pressing them as illustrated; after the catches have opened the hatch will fall forwards to a limit position for cleaning. To close the hatch, move the hatch back into the catches, which are pushed back to their original position.



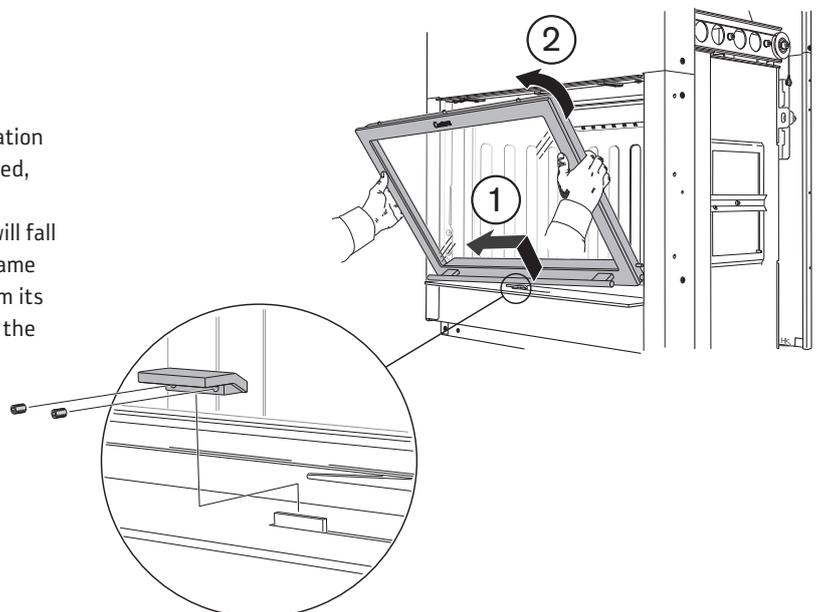
Self-closing hatch

The insert can be supplied with a self-closing hatch. First open the hatch according to section “Cleaning the hatch glass”, then remove the four screws to release the Upper member. Remove the two screws that hold the spring assembly, install the weight to the upper member and reinstall the spring assembly in the upper screw holes. Reinstall the Upper member using the four screws. The insert can now be supplied with the self-closing hatch.

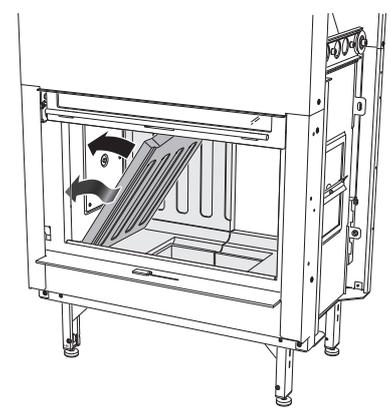
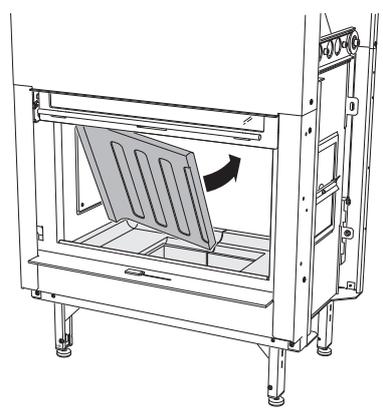
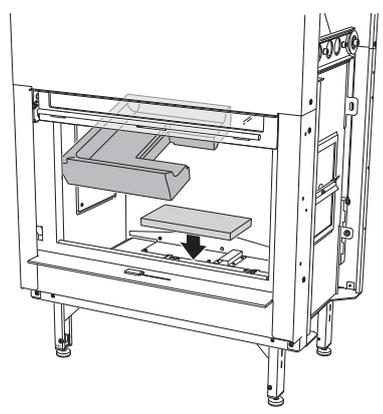


Installing removable parts

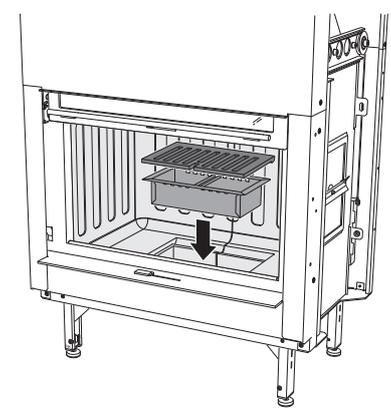
Removing the hatch from the insert facilitates the installation of the hearth surround on the I 20. If the insert is recessed, removal of the hatch is made easier if the damper knob is removed. After the catches have been opened the hatch will fall forward to a limit position. Now lift the hatch and at the same time move it to the left so that the right side releases from its mounting, then tilt the hatch out. Assembly takes place in the reverse order.



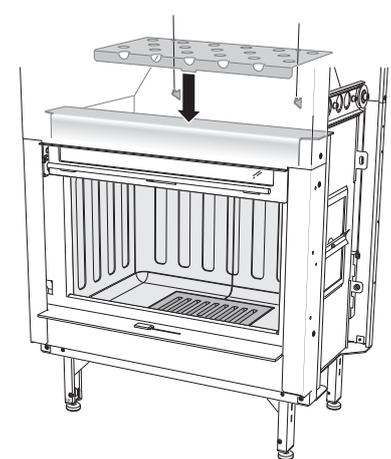
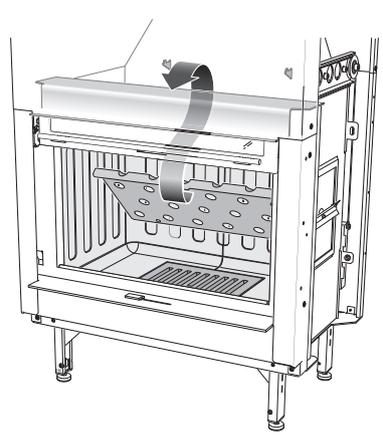
Start by placing the insulation panel in the bottom of the Insert. Start installing the two lower parts of the hearth surround, then continue with the left back section followed by the left side, finally install the right back section and side.



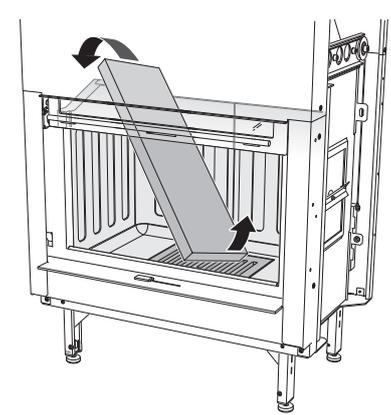
Position the ash-pan and cast-iron grate.



Prior to positioning the smoke baffle on top of the hearth surround's sides The diffuser must be positioned up inside the insert's heat exchanger, the diffuser must rest against the front edge of the heat exchanger, at the rear edge there are hooks that fit into the diffuser.



Smoke baffle.



Installation

Ensure that the installation is approved by a certified chimney sweep, who can also provide information on which national and regional regulations apply. Also ensure that a function check of the hatch opening mechanism and damper control is performed according to the "Function check" section.

Supply of combustion air

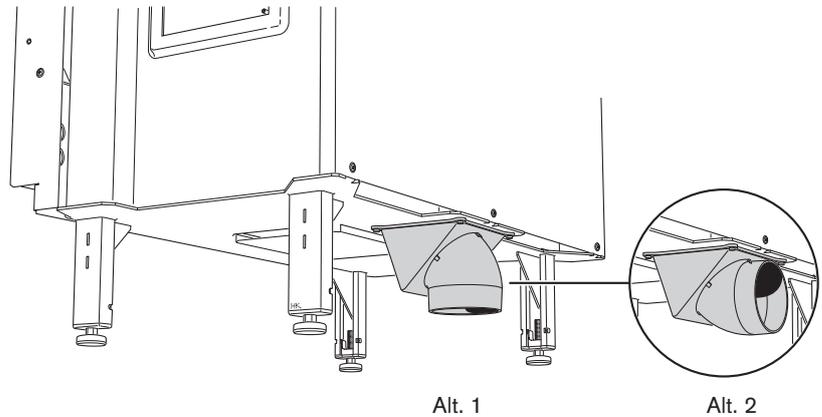
Combustion air can be provided directly via a duct from outside, or indirectly via a vent in the outer wall of the room where the stove is to be placed. The amount of combustion air that is used for combustion is approx. 30 m³/h.

Some installation alternatives are shown to the right.

The air duct connection on the stove has an external diameter of $\varnothing 100$ mm. In hot areas, the duct should be insulated with 30 mm mineral wool covered with a moisture inhibitor for example, aluminium tape.

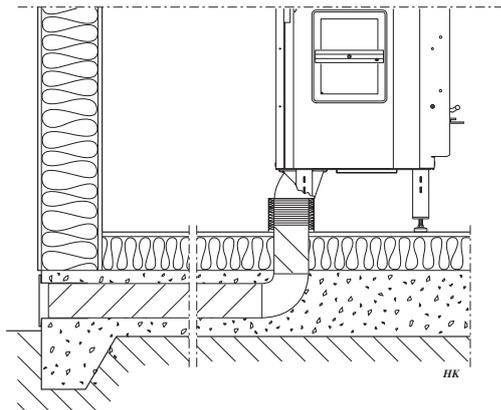
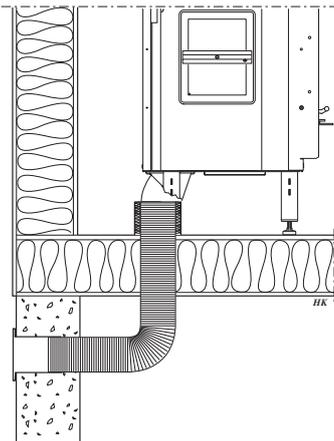
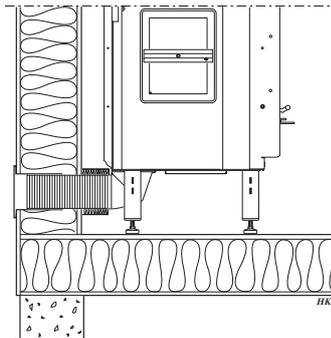
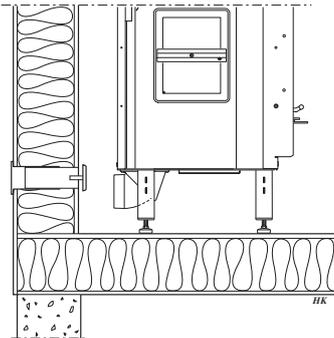
It is important that the lead-in between the pipe and the wall (or floor) is sealed using jointing compound.

A 1 m length of condensation insulated ducting for combustion air is available as an accessory.



Alt. 1

Alt. 2



Connection to chimney

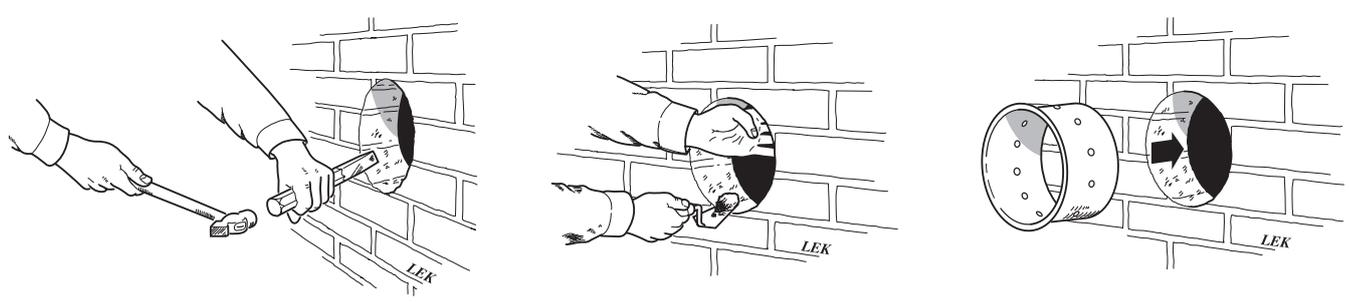
The insert is prepared for top connection, when connecting from the rear of the insert, the Ø200 connector and cover on the rear of the insert must be switched over, see “Connecting from the rear of the insert”.

When connecting to the chimney of less than Ø200, install a reduction pipe on the existing Ø200 connector. The reduction pipe must not have an exit diameter less than Ø150. When using reduction pipes, flue gases can be forced out into the room if the insert is lit with the hatch open. The condition for connecting to a Ø150 chimney is that the insert must only be lit with the hatch closed.

IMPORTANT
Always observe the safety distances to combustible material that steel flues require

Rear connection to a masonry chimney

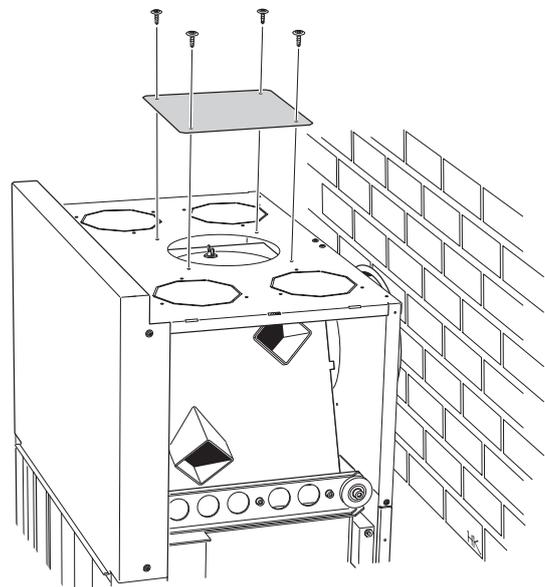
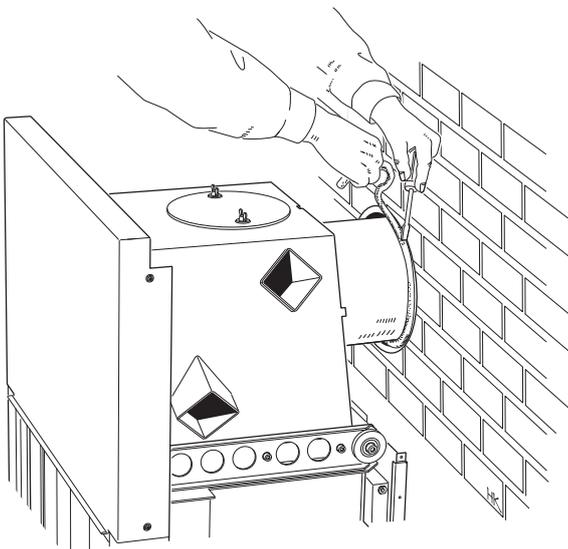
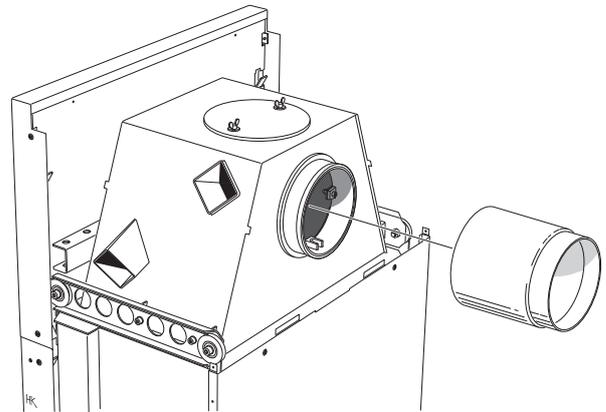
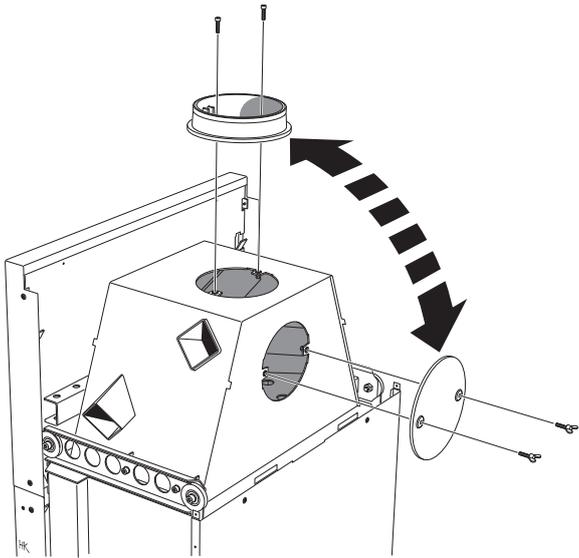
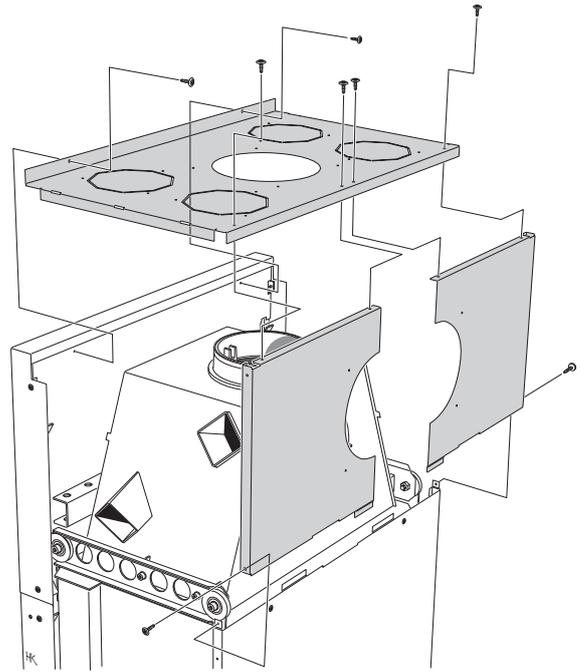
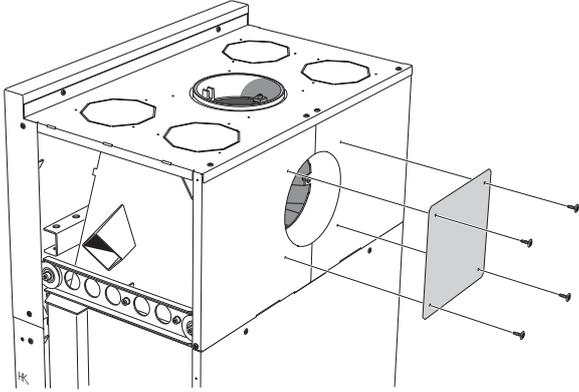
Mark out the centre for making a hole in the wall to the flue.
Check that the connection height in the chimney breast corresponds to the height of the connection pipe from the stove.



Make a hole large enough so that the wall connector can be cemented in position with fireproof mortar (not supplied). Let the mortar dry before the insert is connected to the chimney.

Connecting from the rear of the insert

Remove the top and rear panels. Swap the connector and cover. Install the connection pipe on the connector; ensure that gasket does not move out of position. When the insert is in position, seal the connection pipe and wall connector well, use heat-resistant sealant if necessary. Reinstall the top and rear panels; screw the covers onto the top panel.



Recessing the insert

When recessing the insert, adjacent walls that are not classed as fire walls or are considered unsuitable for heat loads must be protected by non-combustible material according to the specification below.

All joints on the non-combustible material must be sealed using the manufacture's recommended method. The area between the insert and the recess must be ventilated according to the specification/dimension diagrams on page 31.

When top connecting a steel flue please refer to the relevant manufacturer's installation instructions. Observe the safety distances to combustible material that steel flues require. Heat radiation from the hatch is strong and is why combustible material must not be placed closer than 1.5 m in front of the hatch. When recessing, building material must not be in direct contact with the insert due to the thermal expansion of the insert.

Material requirements

The building material must not be combustible.

The thermal conductivity coefficient may be a maximum of 0.14 W/mK.

The thickness of the building material must always be at least 100 mm.

In cases where the building material's insulation properties are given as a U-Value, this must be a maximum of 1.4 W/ m²K.

List of suitable materials:

Aerated concrete: =0.12-0.14

Vermiculite: =0.12-0.14

Calcium silicate: =0,09

Sealing

If the recess is to extend to the ceiling, a seal must be made above the convection exhaust. This is to prevent hot air collecting in the recess closest to the ceiling. The seal must a maximum of 100 mm above the convection exhaust's upper edge and must be made up of 20 mm thick building boards made of calcium silicate or a panel with at least a 50 mm thickness of rock wool on top.

Convection air

The convection air ventilates the surround, cools the insert and transports the hot air out into the room. The total sum of the effective cross section area up and down must not be less than the stated values. The air intake must be positioned somewhere between the floor and the bottom of the insert, up to or on the sides of the recess. The vent must be positioned above the insert's highest point up to or to the sides of the recess.

If the air intakes and exhausts are to be located on the sides, the areas on the left and right hand sides must be of equal size to ensure that the insert is evenly cooled.

Observe the minimum distance up to the ceiling (see diagram on page 31).

Convection air in: 600 cm²

Convection air out: 600 cm²

If the convection outlets are directed upwards the following applies

- the recess must be free-standing or placed against non-combustible walls
- the distance from the air outlet to combustible roof must be at least 700 mm

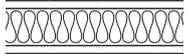
To service the hatch's runners, all recess parts built out in front of the moulding below the hatch, e.g. shelves, must be removable.

Note that building regulations apply regarding the area below and in front of the insert, see section "Hearth plate".

Recess example

Note!

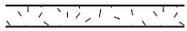
The dimensions are the minimum dimensions, unless otherwise stated.



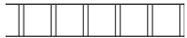
Wall of combustible material



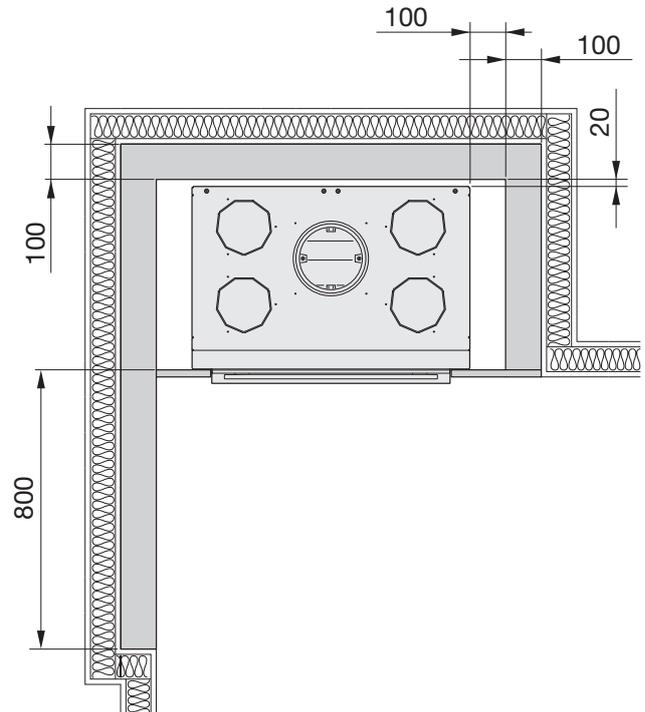
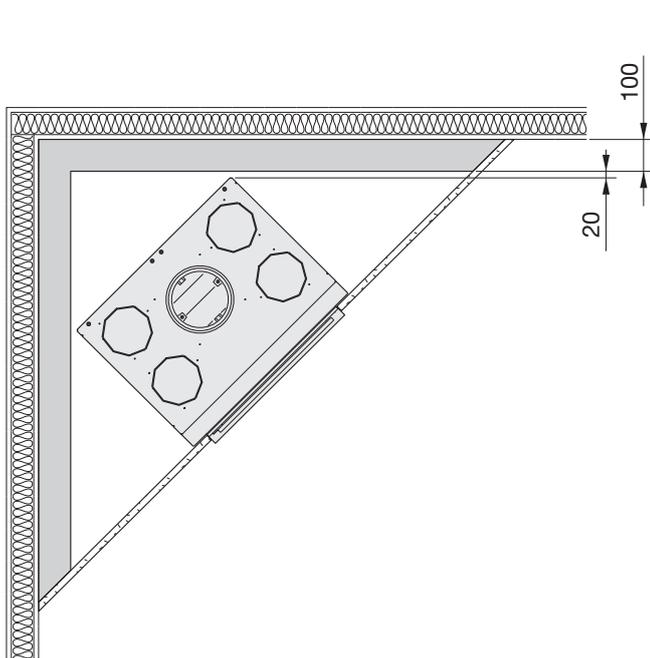
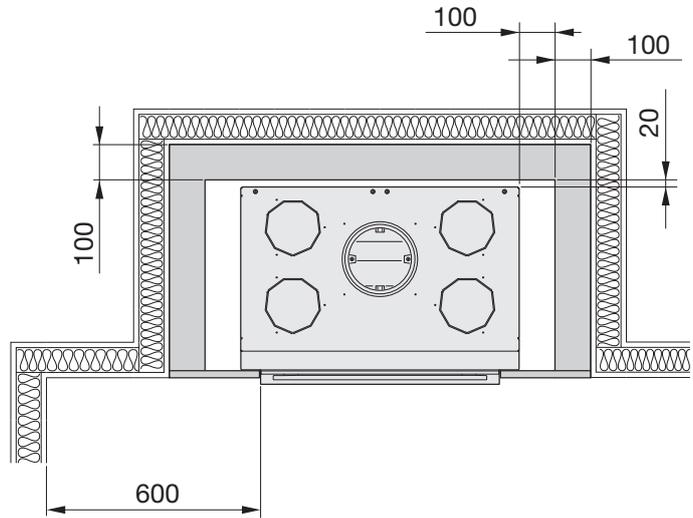
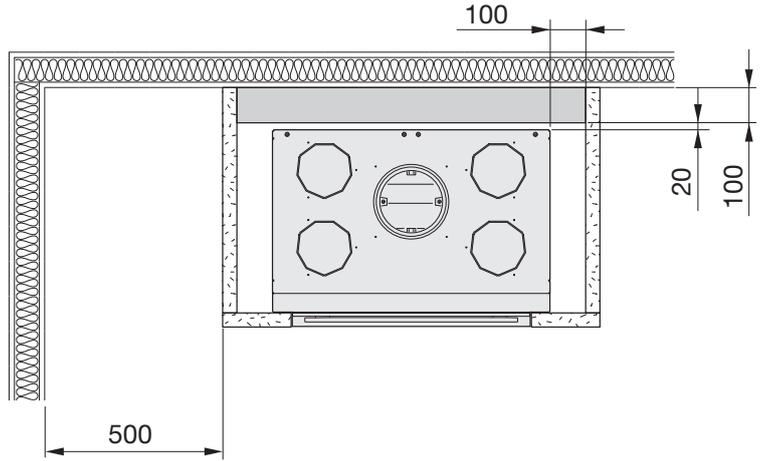
Wall of non-combustible material, made of 100 mm aerated concrete in the recess example.

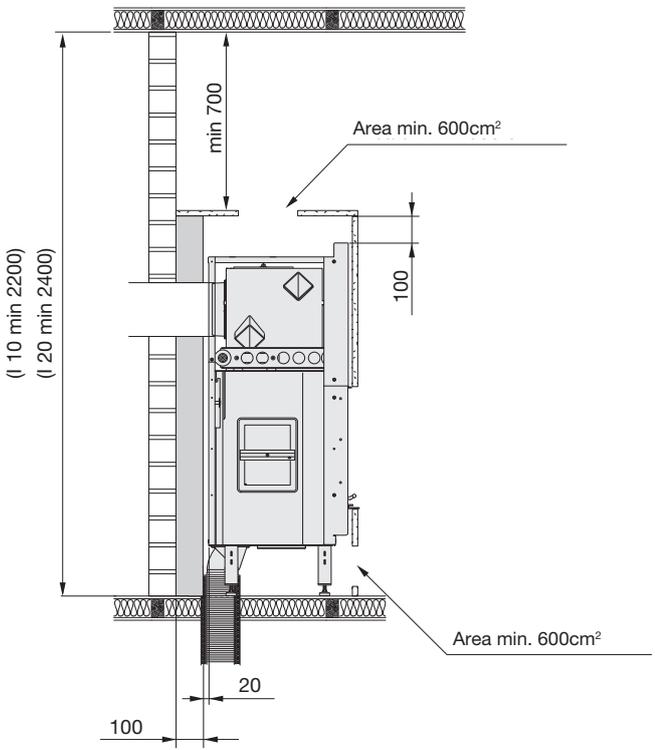
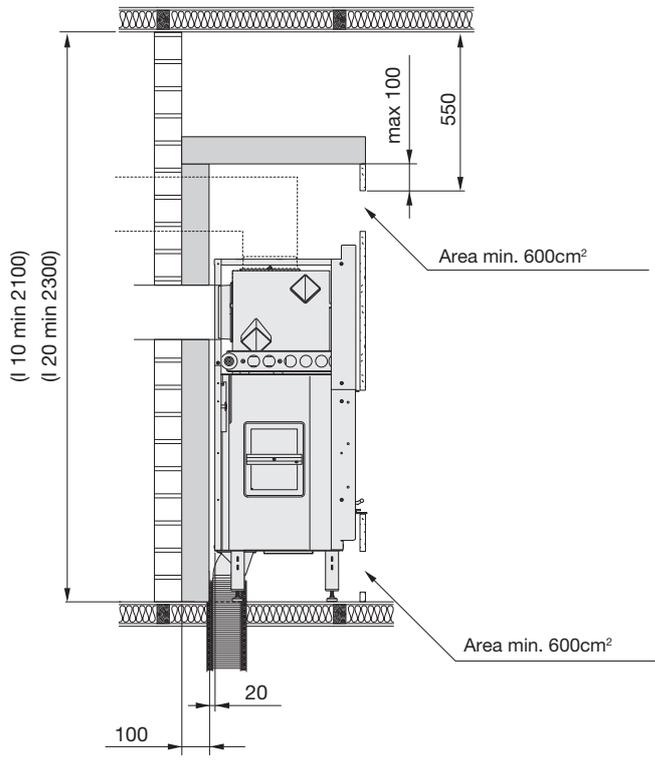
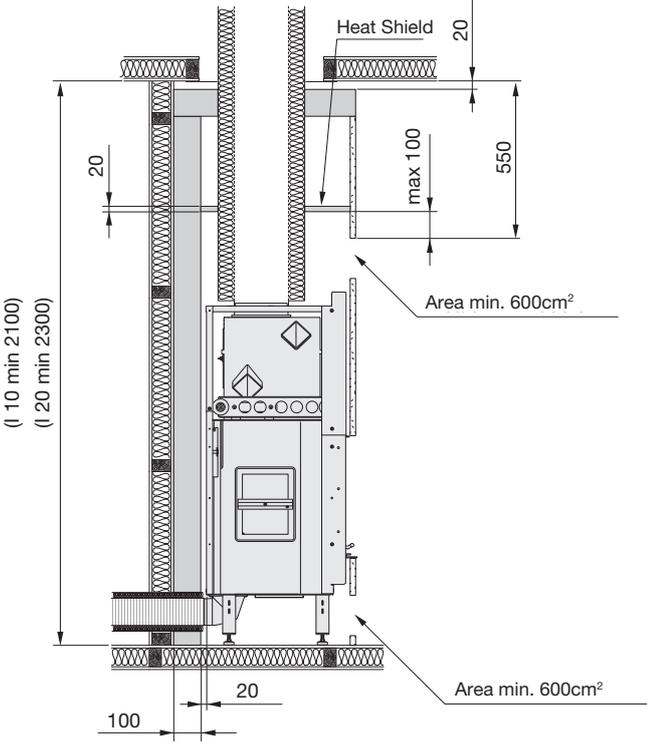


Wall of non-combustible material that is not in contact with combustible material and therefore has no minimum thickness requirement.



Chimney breast





Contura

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Contura reserves the right to change colours, materials, dimensions and models at any time without special notice. Your dealer can give you the most up to date information. Stoves shown in brochures may have extra equipment.

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