Installationsmanual (DK) / Installationsanleitung (DE) / Installation manual (UK) / Manual d'installation (FR)

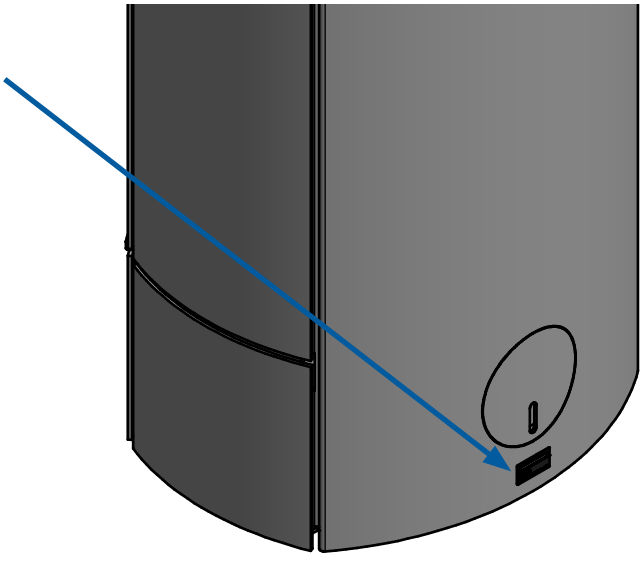
Caro 90 / 110 / 130
Caro 110 SST / 120 SST

INSTALLATIONSMANUAL (DK)
INSTALLATIONSANLEITUNG (DE)
INSTALLATION MANUAL (UK)
MANUEL D'INSTALLATION (FR)
INSTALLASJONSHÅNDBOK (NO)
INSTALLATIONSMANUAL (SE)
ASENNUSKÄSIKIRJA (FIN)
INSTALLATIE HANDLEIDING (NL)

RAIS® ART OF FIRE

attika® FEUERKULTUR

The production number can be found on the back of the stove.



CONTENTS

This manual applies to the following models:

Caro 90 Manuel, Caro 90 Manuel Sideglass
Caro 90 Manuel Classic, Caro 90 Classic Sideglass
Caro 110 Manuel, Caro 110 Manuel Sideglass
Caro 110 Manuel Classic, Caro 110 Classic Sideglass
Caro 130 Manuel, Caro 130 Manuel Sideglass
Caro 130 Manuel Classic, Caro 130 Classic Sideglass
Caro 110 SST Manuel, Caro 110 SST Electronic
Caro 110 SST Manuel Classic, Caro 110 SST Electronic Classic
Caro 120 SST Manuel, Caro 120 SST Electronic
Caro 120 SST Manuel Classic, Caro 120 SST Electronic Classic

Revision: 12
Date: 08-12-2023

INSTALLATION MANUAL

Thank you for choosing your new RAIS or ATTIKA product! This installation manual will ensure that your fireplace insert is installed correctly and that it will provide you with comfort and pleasure for many years to come.

IN GENERAL

It is important to correctly install the fireplace insert out of consideration for both the environment and personal safety. The installation of the stove must comply with all local rules and regulations, including those that refer to national and
European standards.

No unauthorised alterations may be made to the fireplace insert.

GENERAL INSTALLATION REQUIREMENTS

The installation should be undertaken by a qualified HETAS engineer. And a CO monitor (certified) must be installed in the same room as the appliance.
Before the fireplace insert may be put to use, the installation should be reported to the local Council/Authority.

There must be a plentiful supply of fresh air in the installation room to ensure good combustion – if required, through an Air-System connection. NB: Any mechanical air extraction, for example a cooker hood, can minimise the supply of air.
The wood-burning stove has an air consumption of at least 7,4 m3/h.

The floor structure must be able to support the weight of the wood-burning stove and a chimney. If the existing floor structure does not meet this requirement, suitable measures must be taken (e.g. installation of a load distribution plate). Seek advice from a building expert.

If the wood-burning stove is to be installed on a flammable floor, national and local regulations must be complied with, including for the size of the non-flammable plate, which must cover the floor in front of the wood-burning stove to protect the floor from any embers that fall out of the stove.

The fireplace insert must be positioned at a safe distance from flammable material. Due to risk of fire, flammable items (e.g. furniture) may not be positioned closer to the fireplace insert than the closest permitted distance stated in the installation section. When deciding where to install your RAIS/ATTIKA fireplace insert, you should think about being able to heat other rooms in the home, so you get the most out of your new fireplace insert.

After receiving your fireplace insert, please check it for any defects.

CHIMNEY

The chimney must be tall enough to ensure correct draught conditions, i.e. -14 to -18 pascal. If the recommended chimney draught cannot be achieved, problems from smoke escaping from the door may arise when lighting the fire. We recommend adapting the chimney to suit the flue outlet connector. The flue outlet connector is 150 mm in diameter.
The Stove must not be installed in a chimney serving more than one appliance.

If the draught is excessive, it is recommended that you equip the chimney with a regulating damper. If a regulating damper is fitted, you must ensure that there is a free flow area of at least 20 cm² at the closed regulating damper.

Remember that there must be unobstructed access to the access door on the chimney.

The technical data given below includes specifications, dimensional drawings and the information plate.

SPECIFICATIONS	
Danish Technological Institute ref.: 300-ELAB-2543-EN, 300-ELAB-2543-NS	
	CARO 90
Nominal output (kW)	5.0
Min./Max. Output (kW):	3–7*
Heating area (m^2)	100
Fireplace insert width/depth/height (mm)	486 X 407 X 920
Combustion chamber W x D x H (mm)	352 X 225 X 228**
Min. uptake (pascal)	-12
Weight (kg) min., depending on the model:	
Efficiency (%)	80
CO emission attributed to 13% O2 (%)	0.07 (896 mg/Nm^3)
NOx emission attributed to 13% O2 (mg/Nm^3)	80
Particle emission in accordance with NS3058/3059 (g/kg)	2.17
Dust measurement in accordance with DIN + 13% O2 (mg/Nm^3)	10
Flue gas flow (g/s)	4.3
Flue gas temperature (°C)	286
Recommended amount of wood (kg) when stoking the fire (Distributed between 2 logs, each max. 24 cm)	1.3
Intermittent operation Stoking should be done within	50 minutes

*Not verified by test.
**Max. load

The fireplace insert is tested and approved by:

DTI
Danish Technological Institute
Teknologiparken Kongsvang Allé 29
8000 Aarhus C
Denmark
www.dti.dk
Tel.: +45 7220 2000
Fax: +45 7220 1019

SPECIFICATIONS	
Danish Technological Institute ref.: 300-ELAB-2543-EN, 300-ELAB-2543-NS	
	CARO 110
Nominal output (kW)	5.0
Min./Max. Output (kW):	3–7*
Heating area (m^2)	100
Fireplace insert width/depth/height (mm)	486 X 407 X 1111
Combustion chamber W x D x H (mm)	352 X 225 X 228**
Min. uptake (pascal)	-12
Weight (kg) min., depending on the model:	
Efficiency (%)	80
CO emission attributed to 13% O2 (%)	0.07 (896 mg/Nm^3)
NOx emission attributed to 13% O2 (mg/Nm^3)	80
Particle emission in accordance with NS3058/3059 (g/kg)	2.17
Dust measurement in accordance with DIN + 13% O2 (mg/Nm^3)	10
Flue gas flow (g/s)	4.3
Flue gas temperature (°C)	286
Recommended amount of wood (kg) when stoking the fire (Distributed between 2 logs, each max. 24 cm)	1.3
Intermittent operation Stoking should be done within	50 minutes

*Not verified by test.
**Max. load

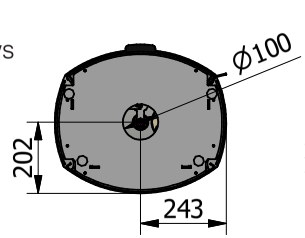
SPECIFICATIONS	
Danish Technological Institute ref.: 300-ELAB-2543-EN, 300-ELAB-2543-NS	
	CARO 130
Nominal output (kW)	5.0
Min./Max. Output (kW):	3–7*
Heating area (m^2)	100
Fireplace insert width/depth/height (mm)	486 X 407 X 1329
Combustion chamber W x D x H (mm)	352 X 225 X 228**
Min. uptake (pascal)	-12
Weight (kg) min., depending on the model:	
Efficiency (%)	80
CO emission attributed to 13% O2 (%)	0.07 (896 mg/Nm^3)
NOx emission attributed to 13% O2 (mg/Nm^3)	80
Particle emission in accordance with NS3058/3059 (g/kg)	2.17
Dust measurement in accordance with DIN + 13% O2 (mg/Nm^3)	10
Flue gas flow (g/s)	4.3
Flue gas temperature (°C)	286
Recommended amount of wood (kg) when stoking the fire (Distributed between 2 logs, each max. 24 cm)	1.3
Intermittent operation Stoking should be done within	50 minutes

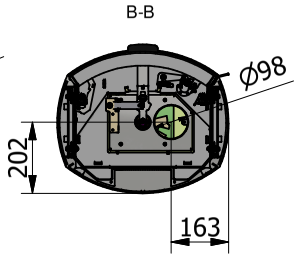
*Not verified by test.
**Max. load

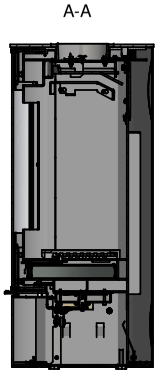
SPECIFICATIONS	
Danish Technological Institute ref.: 300-ELAB-2543-EN, 300-ELAB-2543-NS	
	CARO 110 SST / 120 SST
Nominal output (kW)	5.0
Min./Max. Output (kW):	3–7*
Heating area (m^2)	100
Fireplace insert width/depth/height (mm)	486 X 407 X 920
Combustion chamber W x D x H (mm)	352 X 225 X 228**
Min. uptake (pascal)	-12
Weight (kg) min., depending on the model:	
Efficiency (%)	80
CO emission attributed to 13% O2 (%)	0.07 (896 mg/Nm^3)
NOx emission attributed to 13% O2 (mg/Nm^3)	80
Particle emission in accordance with NS3058/3059 (g/kg)	2.17
Dust measurement in accordance with DIN + 13% O2 (mg/Nm^3)	10
Flue gas flow (g/s)	4.3
Flue gas temperature (°C)	286
Recommended amount of wood (kg) when stoking the fire (Distributed between 2 logs, each max. 24 cm)	1.3
Intermittent operation Stoking should be done within	50 minutes

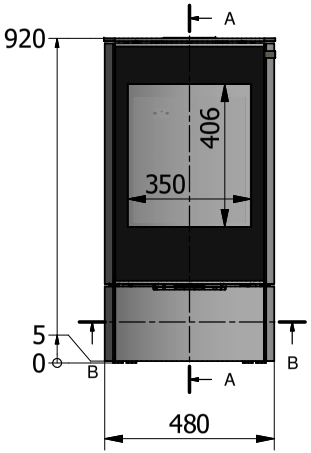
*Not verified by test.
**Max. load

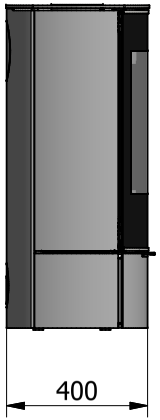
Caro 90
Without side windows

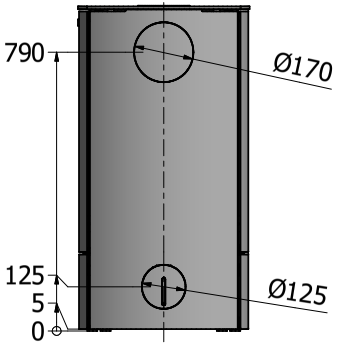


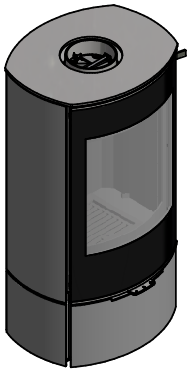


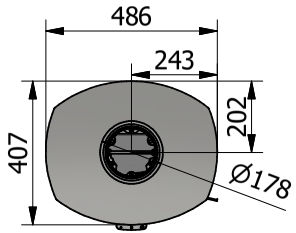




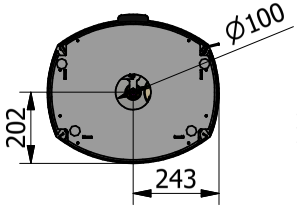


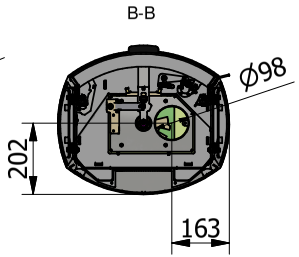


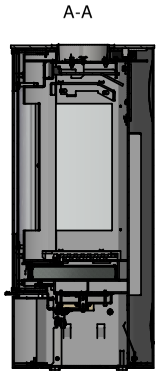


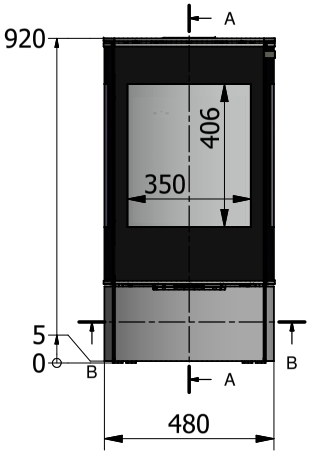


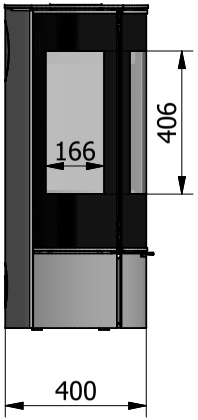
Caro 90
With side windows

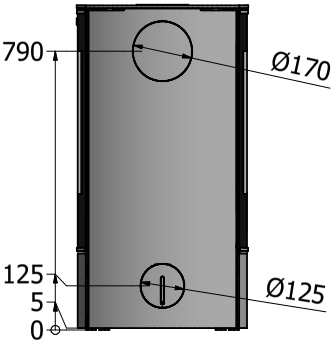


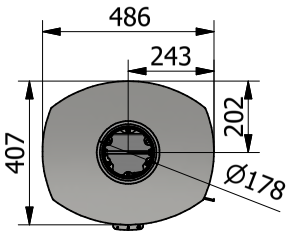




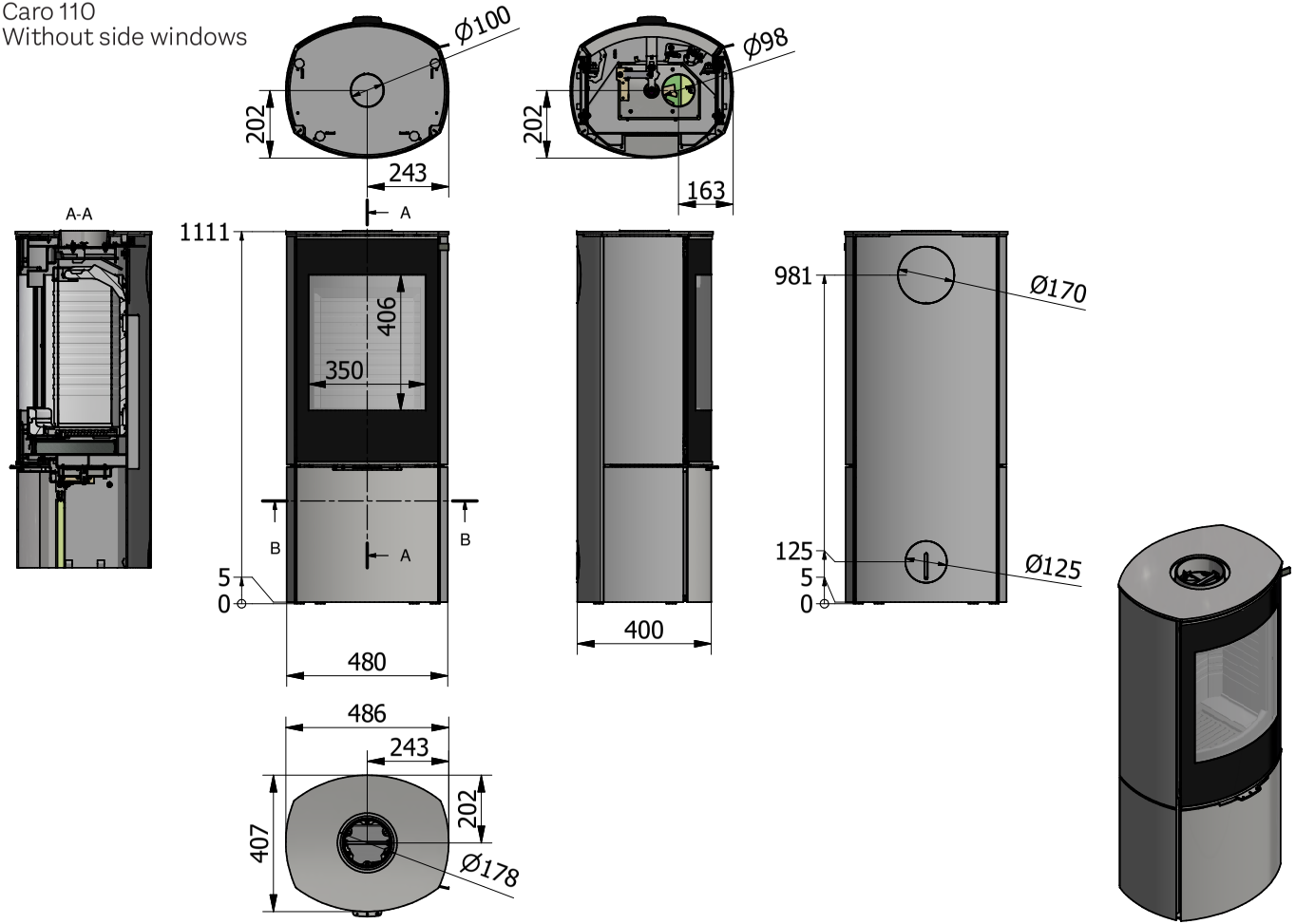




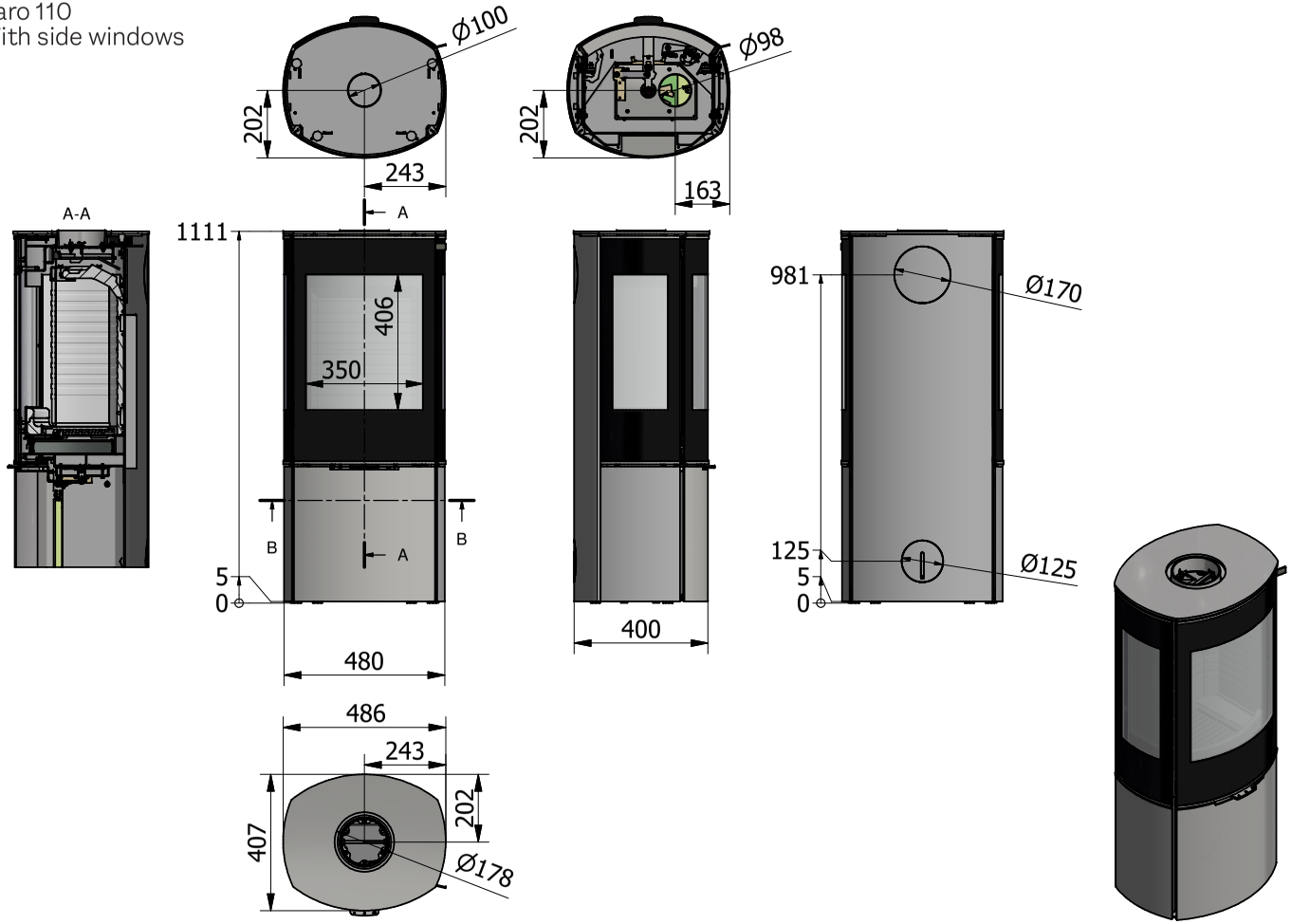




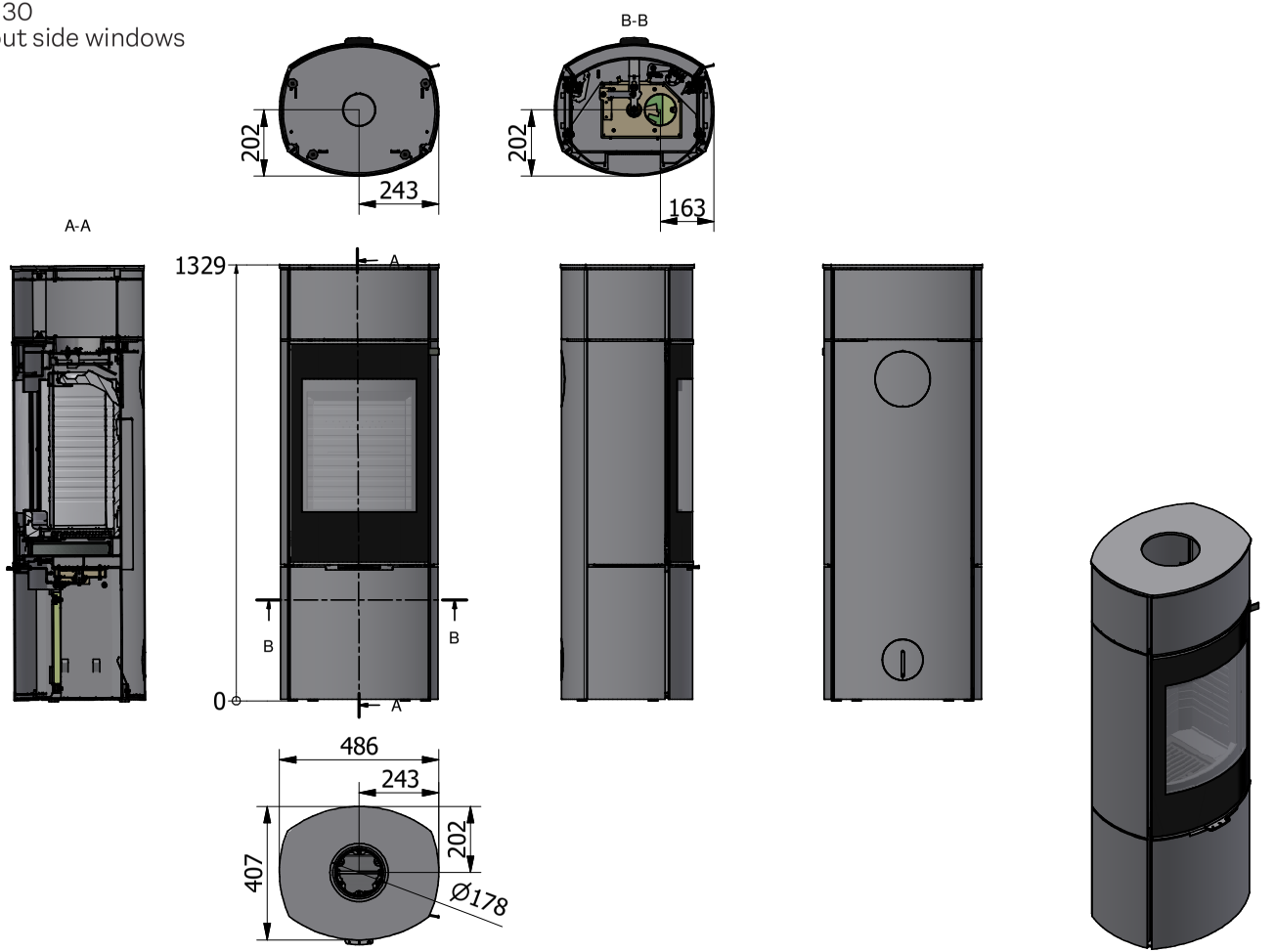
Caro 110
Without side windows



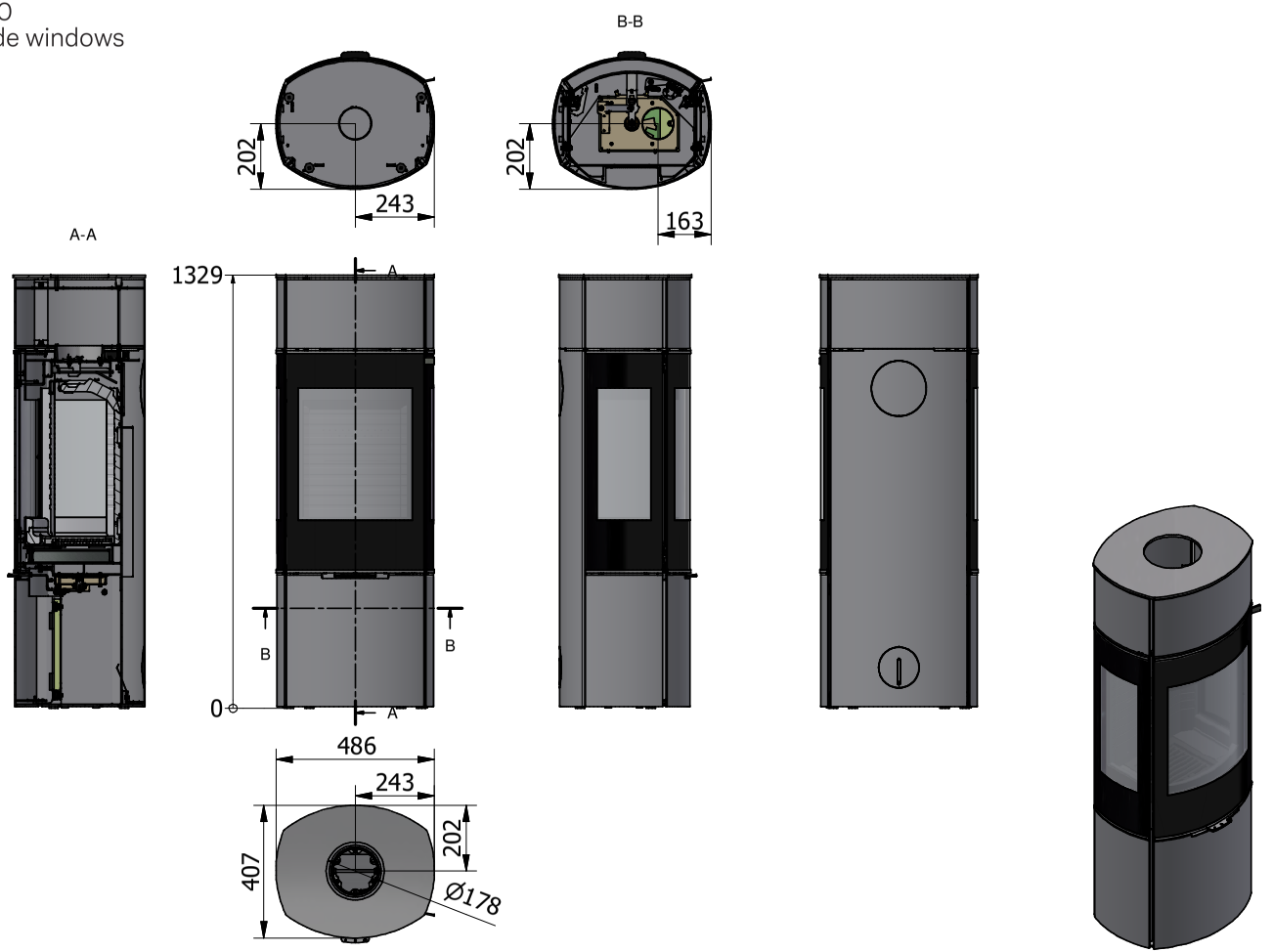
Caro 110
With side windows



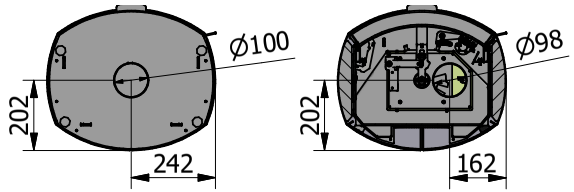
Caro 130
Without side windows

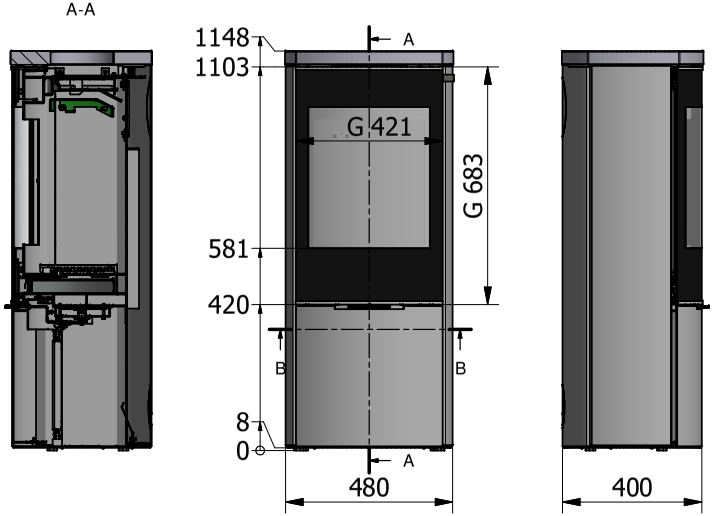


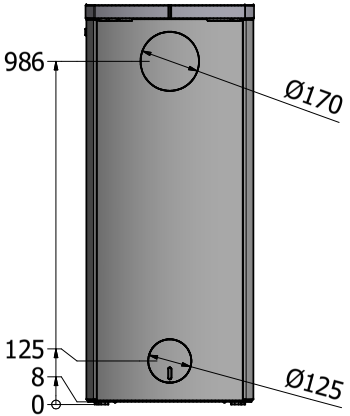
Caro 130
With side windows

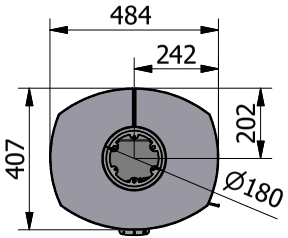


Caro 110 SST
Caro 120 SST









21

EN 13240:2001+A1:2004,
EC.NO: 14

Notified Body: 1235

Produced at: RAIS A/S, Industrivej 20, 9900 Frederikshavn, Danmark

Caro 90 Manual, Caro 90 Manual Side glass, Caro 90 Manual Classic, Caro 90 Manual Classic Side glass, Caro 110 Manual, Caro 110 Manual Side glass, Caro 110 Manual Classic, Caro 110 Manual Classic Side glass, Caro 130 Manual, Caro 130 Manual Side glass, Caro 130 Manual Classic, Caro 130 Manual Classic Side glass, Caro 110 SST Manual, Caro 110 SST Manual Classic, Caro 120 SST Manual, Caro 120 SST Manual Classic

AFSTAND TIL BRÆNDBART, BAGVÆG ABSTAND ZU BRENNBAREN BAUTEILEN, HINTEN DISTANCE TO COMBUSTIBLE BACK WALL	DK: 100mm SE BRUGERVEJLEDNING DE: 100mm SIEHE BEDIENUNGSANLEITUNG UK: 100mm SEE USER MANUAL
DIST. ENTRE COMPOSANTS COMBUSTIBLES, ARRIÈRE	FR: 100mm CONSULTEZ LE GUIDE DE L'UTILISATEUR
AFSTAND TIL BRÆNDBART, SIDEVÆG ABSTAND ZU BRENNBAREN BAUTEILEN, SEITE DISTANCE TO COMBUSTIBLE SIDE WALL	DK: 400mm SE BRUGERVEJLEDNING DE: 400mm SIEHE BEDIENUNGSANLEITUNG UK: 400mm SEE USER MANUAL
DISTANCE ENTRE COMPOSANTS COMBUSTIBLES, COTÉ	FR: 400mm CONSULTEZ LE GUIDE DE L'UTILISATEUR
AFSTAND TIL BRÆNDBART, MØBLERING ABSTAND VORNE ZU BRENNBAREN MÖBELN DISTANCE TO FURNITURE AT THE FRONT	DK: 900mm SE BRUGERVEJLEDNING DE: 900mm SIEHE BEDIENUNGSANLEITUNG UK: 900mm SEE USER MANUAL
DISTANCE ENTRE COMPOSANTS COMBUSTIBLES, DEVANT	FR: 900mm CONSULTEZ LE GUIDE DE L'UTILISATEUR
CO EMISSION (REL. 13% O2) CO EMISSION IN DEN VERBRENNUNGSPRODUKTEN (BEI 13%O2) EMISSION OF CO IN COMBUSTION PRODUCTS (AT 13%O2) EMISSION CO DANS LES PRODUITS COMBUSTIBLES (À 13%O2)	0,07 % / 896 mg/Nm³
STØV / STAUB / DUST / POUSSIÈRES:	10 mg/Nm3
RØGGASTEMPERATUR / ABGASTEMPERATUR / FLUE GAS TEMPERATURE / TEMPÉRATURE DES GAZ DE FUMÉE:	286 °C
NOMINEL EFFEKT / HEIZLEISTUNG / THERMAL OUTPUT / PUISSANCE CALORIFIQUE:	5,0 kW
VIRKNINGSGRAD / ENERGIEEFFIZIENZ / ENERGY EFFIENCY /EFFICACITÉ ÉNERGÉTIQUE:	80 %
DK: Brug kun anbefalede brændsler. Følg instrukserne i bruger manualen. Anordningen er egnet til røggassamleledning og intervalfyring. DE: Lesen und befolgen Sie die Bedienungsanleitung. Zeitbrandfeuerstätte. Nur empfohlene Brennstoffe einsetzen. UK: Fuel types (only recommended). Follow the installation and operating instruction manual. Intermittent operation. F: Veuillez lire et observer les instructions du mode d'emploi. Foyer à durèe de combustion limitèe, homologué pour cheminée à connexions multiples. Utiliser seulement les combustibles recommandés.	DK: BRÆNDE DE: HOLZ UK: WOOD FR: BOIS

(Not to be used with a shared flue in UK)

Geeignet für den Anschluss an einen gemeinsamen Schornstein, sofern beide Geräte den gleichen Besitzer haben.

Suitable for connection to a shared flue, on the condition that both devices have the same owner.

Raumheizer für feste Brennstoffe
Appliance fired by wood
Poêle pour combustibles solides

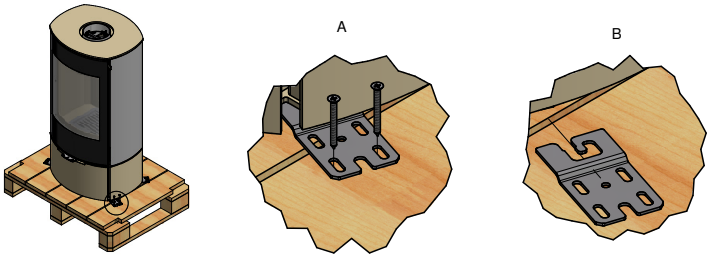
Produced for: ATTIKA FEUER AG, Brunnmatt 16, CH-6330 Cham / RAIS A/S, Industrivej 20, DK-9900 Frederikshavn

INSTALLATION

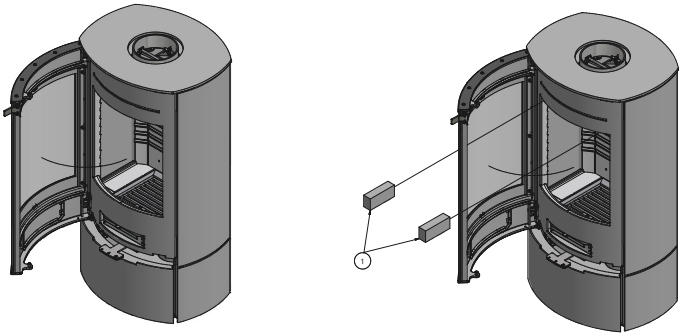
The following section explains how to install the fireplace insert and includes information about the packaging, installation distances etc.

DELIVERY PACKAGING

Upon delivery, the stove is secured to a transport pallet using four transport safety fittings, one in each corner (A).
The safety fittings are secured with screws, which must be unscrewed. The safety fittings can then be removed (B).



The top of the wood-burning stove has two polystyrene blocks (1), which protect the combustion chamber lining in transit. These must be removed before starting a fire in the stove.



DISPOSAL OF PACKAGING

RECYCLING
The fireplace insert is delivered in recyclable packaging.
This packaging must be disposed of in accordance with national regulations relating to the disposal of waste.

The glass is not recyclable.
The glass must be disposed of along with any residual ceramic or porcelain waste. Heat-resistant glass has a higher melting point, which is why it is not recyclable.

By ensuring heat-resistant glass does not end up alongside recyclable products you are making an important contribution to the environment.

INSTALLATION DISTANCES.

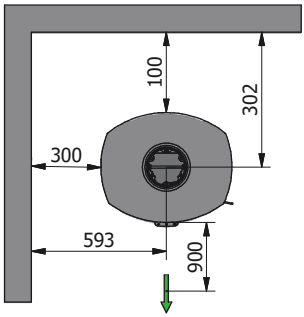
IMPORTANT:

Please bear in mind that the installation distances on the following pages only apply to the wood-burning stove.
The final choice of Chimney solution may have a larger safety distance to the flammable material. The Chimney solution must always be installed in accordance with current building regulations and in a manner that ensures CE / UKCA-marking compliance.

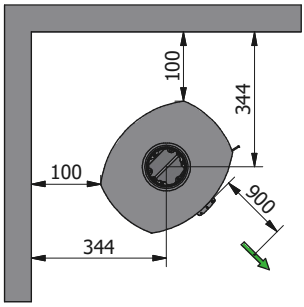
INSTALLATION DISTANCE TO FLAMMABLE MATERIAL:
CARO 90 / CARO 110 / CARO 130 / CARO 110 SST / CARO 120 SST

The installation distances applicable to the wood-burning stove are shown below. Bear in mind that the final choice of chimney may have a different safety distance.
All dimensions are in mm.

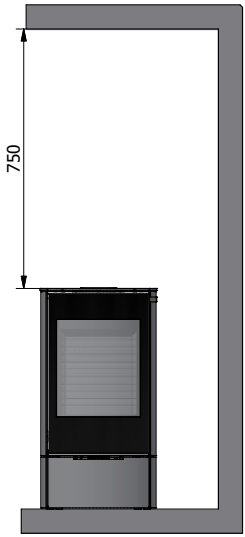
Right-angle installation



Corner installation



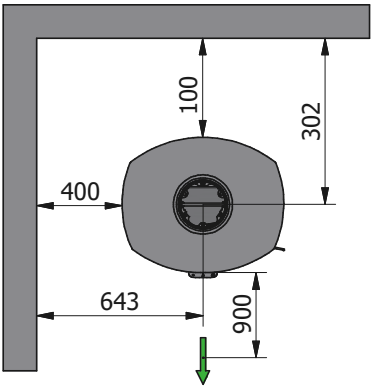
Flammable ceiling



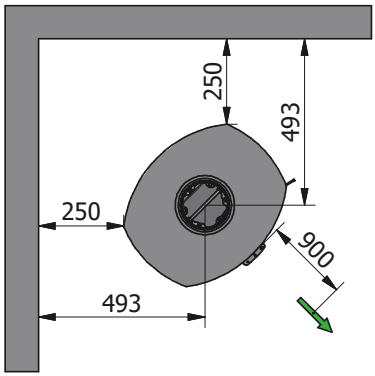
Safety distances to the flammable ceiling are measured from above the door.

INSTALLATION DISTANCE TO FLAMMABLE MATERIAL:
CARO 90 / CARO 110 / CARO 130 WITH SIDE GLASSES (WITH SIDE WINDOWS)

Right-angle installation

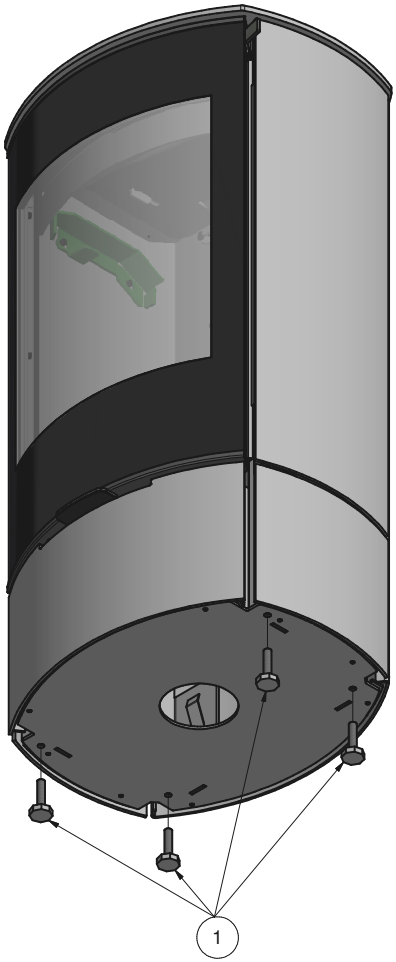


Corner installation



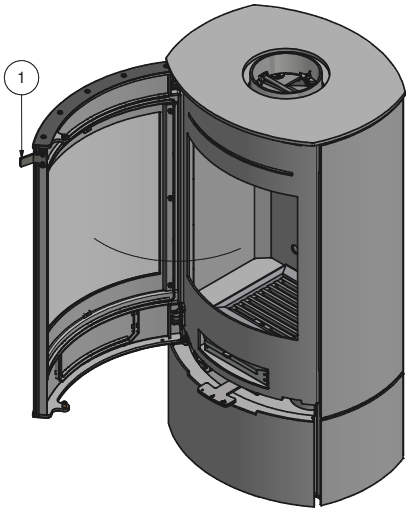
HEIGHT ADJUSTMENT

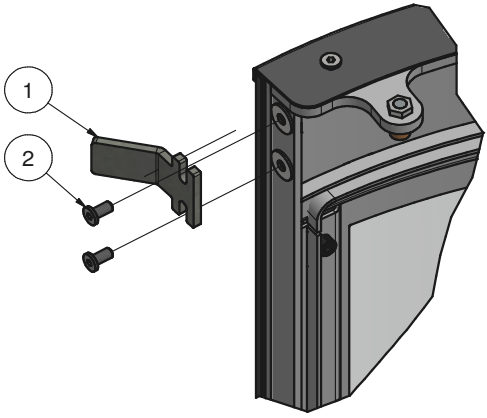
The stove is equipped with four adjustment screws (1) under the stove.
Use the adjustment screws to ensure the wood-burning stove stands level.

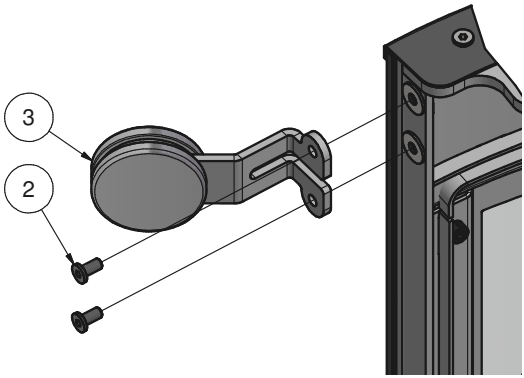


FITTING/CHANGING THE HANDLE

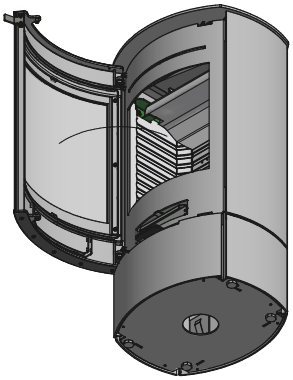
The wood-burning stove comes with a temporary handle (1). To remove it, undo the screws (2). The new handle (3) can now be fitted to the stove using the screws (2).







REMOVING THE COMBUSTION CHAMBER LINING



The combustion chamber lining protects the body of the fireplace insert from the heat of the fire. The large differences in temperature can lead to cracks in the combustion chamber lining. This will not affect the functionality of the fireplace insert. The lining will only need be replaced after several years of use when it begins to disintegrate. The liner panels are easy to place in position in the fireplace insert and can easily be replaced by you or your dealer.
Procedure for removing the combustion chamber lining:

1. Remove the smoke deflector plate (1) by pulling it forwards and downwards so that the rear end is free of the vertical plates. The smoke deflector can now be carefully removed.

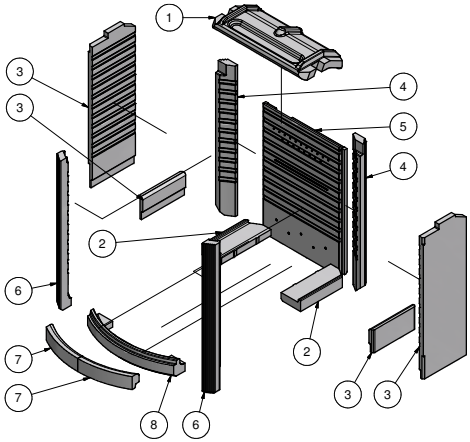
2. Remove the base panels (2).

3. Loosen the side plates (3) by turning the front end of the plate towards the center of the oven. Then take them out carefully.

4. Remove the back plates (4) by pulling the bottom of the plates forward and out.

5. The back plate (5) is now loose and can be removed.

6. Remove the corner plates (6) by pushing the bottom of the stone back and out.

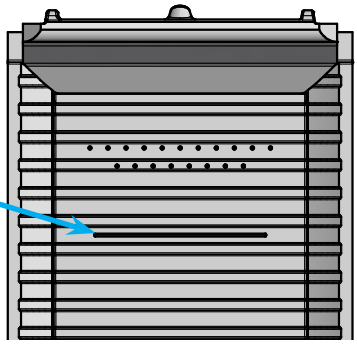


7 The front stones (7) & (8) can now be taken up and out.

To re-install the combustion chamber lining sections, repeat the above procedure in reverse order.

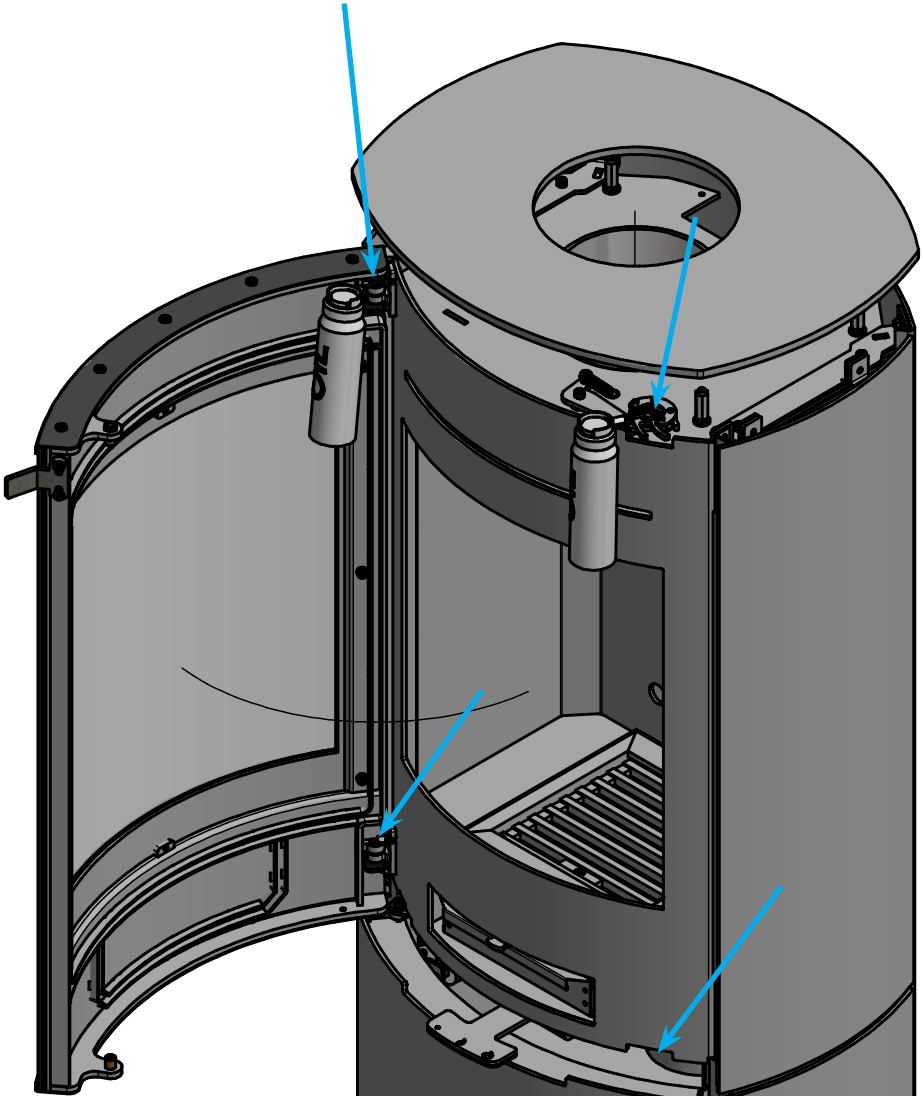
MAX LOAD

The maximum allowable quantity of wood is marked with a line on the rear panels. In other words, wood should not go above this line.



LUBRICATING THE HINGES & LOCK

The fireplace must be lubricated regularly using the four moving parts on the lock and hinges (see image). Use heat-resistant oil.

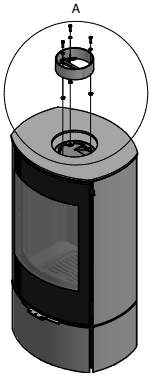


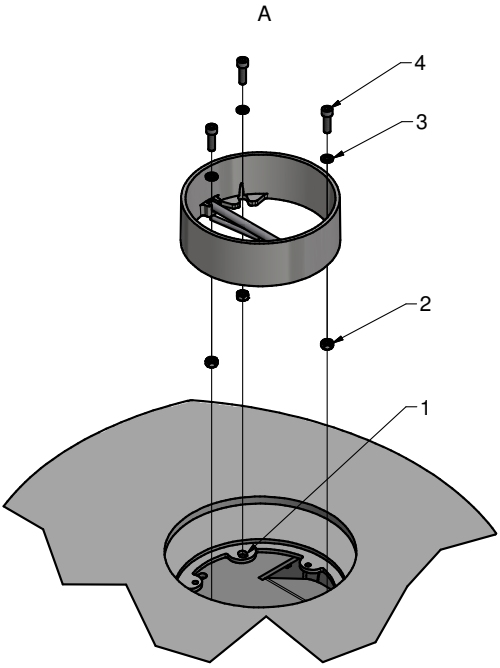
MOUNTING OF SMOKE OUTLET SPIGOT

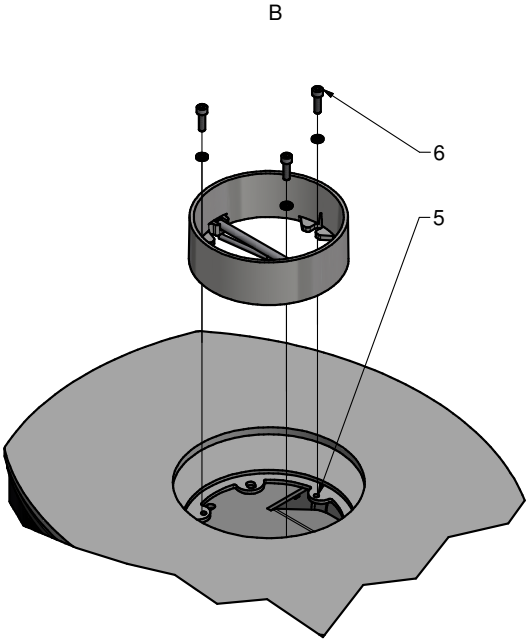
THE SMOKE OUTLET SPIGOT CAN BE TURNED TWO WAYS. YOU CAN CHOOSE EITHER WAY.

Version **A** uses the three free holes:
1) Ø8 Slits
2) M6 Nuts
3) M6 Washers
4) M6X20mm cylinder screws

Version **B** uses the three threaded holes:
5) M6 threaded holes
6) M6X20mm cylinder screws







INSTALLATION OF SMOKE OUTLET FOR REAR OUTLET.

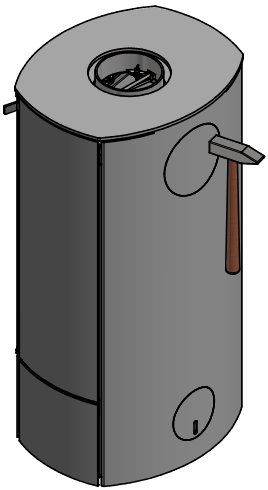
The stove is ready for top exit on delivery, but can be changed to rear exit in the following way.

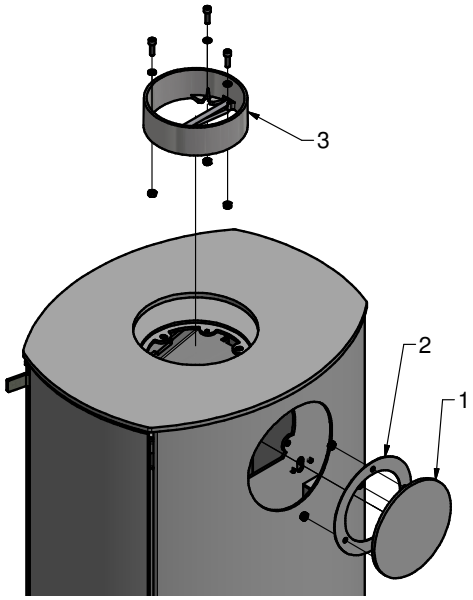
1. On the back of the stove there is a knock-out form that must be knocked free of the back. It is attached via four small pins.

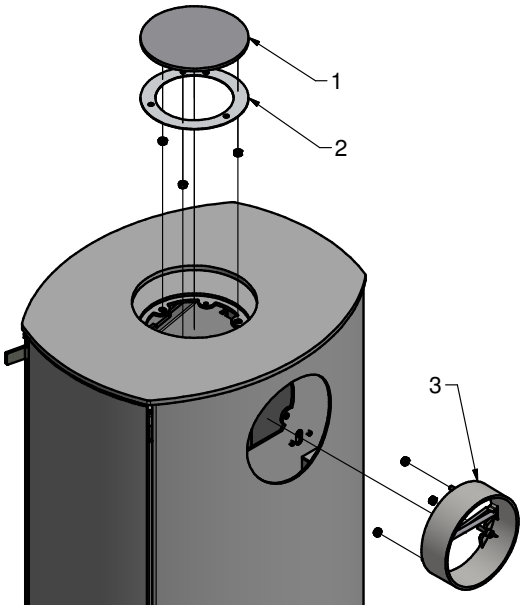
2. Remove the knock-out form with a hammer or similar.

3. Remove the cover (1) and gasket (2) from the rear outlet and mount it on the top outlet.

4. Mount the smoke connection (3) on the rear exit.

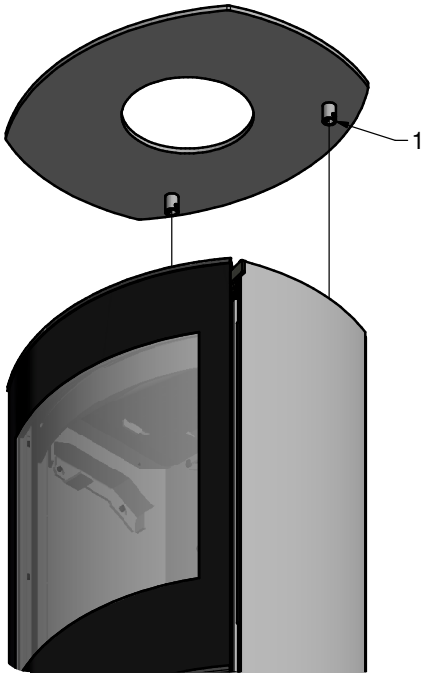


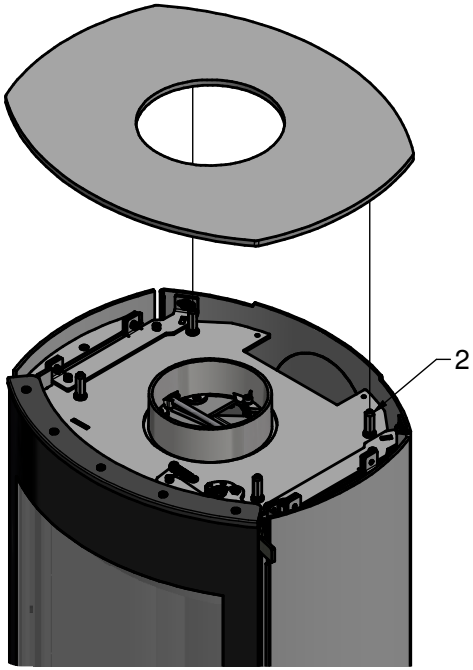




INSTALLATION OF TOP PLATE.

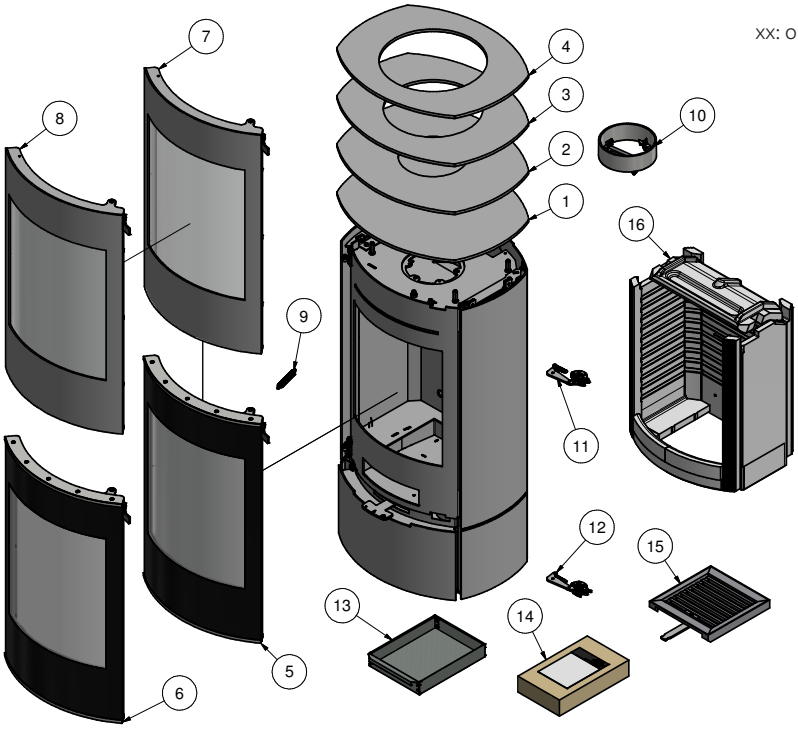
THE TOP PLATE IS PLACED BY GUIDING THE BUSHINGS (1) DOWN OVER THE SPACERS (2). ADJUST THE GAP TO 6MM BY ADJUSTING THE SPACERS.





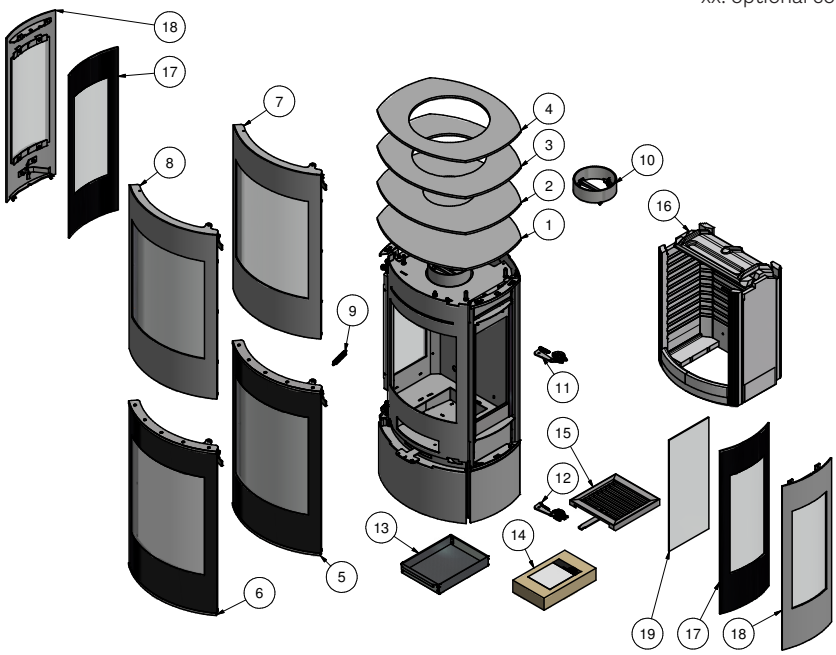
Pos	item number	Title
1	14-0000-0601XX	Top plate Back Outlet
2	14-0000-0602XX	Top plate Top Outlet
3	14-0000-0603XX	Top plate (Premodul Twinflue)
4	14-0000-0604XX	Top plate (Metaloterm/Schiedel Twinflue)
5	14-0000-1001	Glass door with double glass
6	14-0000-1002	Glass door with single glass
7	14-0000-1003XX	Classic door with single glass
8	14-0000-1004XX	Classic door with double glass
9	0110-1,9x12,7x88,9	Traction spring Stainless
10	61-00	Flue collar 6”
11	10-0000-1801	Closing mechanism Top
12	10-0000-1802	Closing mechanism Bottom
13	14-0000-040116	Ash pan
14	14-0000-5503	Gasket set for doors
15	14-0000-3800	Shaking grate
16	14-0000-2201	Caro Skamol set

xx: optional colour code



Pos	Vare nummer	Tittel
1	14-0000-0601XX	Top plate Back Outlet
2	14-0000-0602XX	Top plate Top Outlet
3	14-0000-0603XX	Top plate (Premodul Twinflue)
4	14-0000-0604XX	Top plate (Metaloterm/Schiedel Twinflue)
5	14-0000-1001	Glass door with double glass
6	14-0000-1002	Glass door with single glass
7	14-0000-1003XX	Classic door with single glass
8	14-0000-1004XX	Classic door with double glass
9	0110-1,9x12,7x88,9	Trækfjeder Rustfri
10	61-00	Flue collar 6”
11	10-0000-1801	Closing mechanism Top
12	10-0000-1802	Closing mechanism Bottom
13	14-0000-040116	Ash pan
14	14-0000-5503	Pakningssæt
15	14-0000-3800	Shaking grate
16	14-0000-2201	Caro Skamol set
17	14-0000-5005	Outer Side glass
18	14-0000-2601	Classic side panel - Mounted

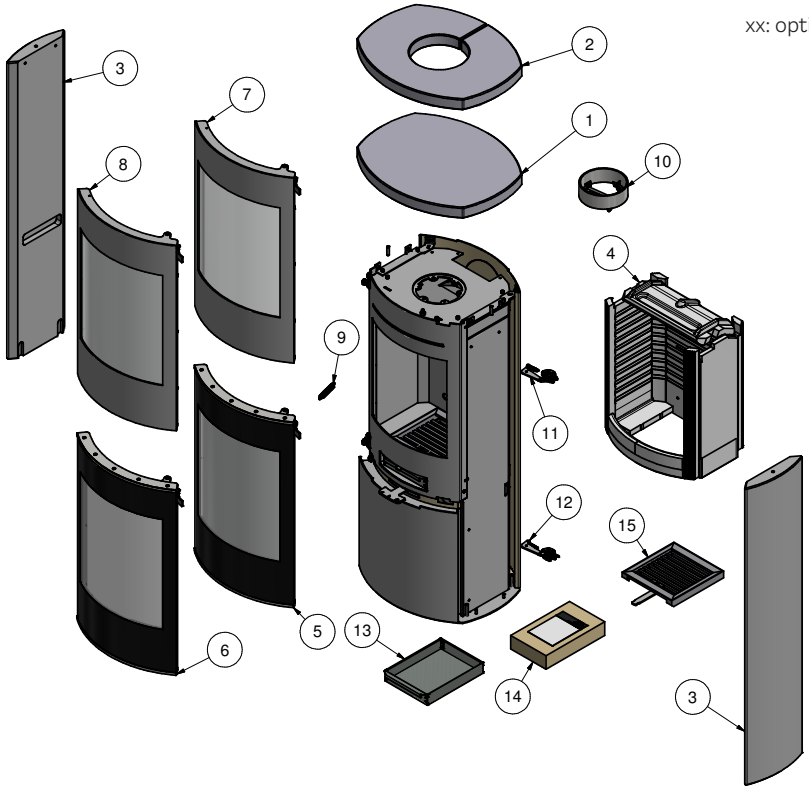
xx: optional colour code



Reservedele Caro 110 SST / 120 SST

Pos	Vare nummer	Tittel
1	14-0301-700101	Top plate B/O
2	14-0301-700102	Top plate Top Outlet
3	14-0301-700106	Side stone
4	14-0000-2201	Caro Skamol set
5	14-0000-1001	Glass door with double glass
6	14-0000-1002	Glass door with single glass
7	14-0000-1003XX	Classic door with single glass
8	14-0000-1004XX	Classic door with double glass
9	0110-1,9x12,7x88,9	Trækfjeder Rustfri
10	61-00	Flue collar 6”
11	10-0000-1801	Closing mechanism Top
12	10-0000-1802	Closing mechanism Bottom
13	14-0000-040116	Ash pan
14	14-0000-5503	Pakningssæt
15	14-0000-3800	Shaking grate

xx: optional colour code



TEST Reg.nr. 300

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Notificeret prøvningsorgan med ID-nr. 1235

Prøvningsattest IV

Uddrag af rapport nr. 300-ELAB-2543-EN og 300-ELAB-2543-NS

Emne: Rais Caro 90, Rais Caro 110 SST

Rekvirent: Rais AS

Industrivej 20, DK-9900 Frederikshavn

UK

Procedure:

X	Prøvning efter DS/EN13240/A2:2004
X	Prøvning efter NS3058-1 & -2 (partikelmåling)
X	Emissionsmåling af støv og OGC

Prøvningsresultater

Akkrediteret prøvning af brændeovn iht. EN 13240 er foretaget med brænde der påfyres manuelt, og følgende resultater blev opnået:

Nominel ydelse:	5,0	kW
CO-emission:	0,07	% - henført til 13 % O_2
Virkningsgrad:	80	%
Røggastemperatur:	286	°C
Afstand til bagvæg:	100	mm (normalopstilling mod brandbar væg)
Afstand til sidevæg:	400	mm (normalopstilling mod brandbar væg)

Emissioner iht. NS 3058 og/eller CEN/TS 15883:

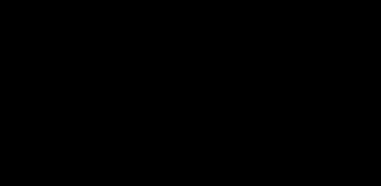
Partikler efter NS 3058:	2,17	g/kg (tørstof) middelværdi (krav: ≤4)
Partikler efter NS 3058:	2,47	g/kg (tørstof) maksimalt (krav: ≤8)
OGC efter CEN/TS 15883:	52	mgC/Nm³ ved 13% O_2 (krav: ≤120)
Støv efter CEN/TS 15883:	10	mg/Nm³ ved 13% O_2 (krav: ≤30)

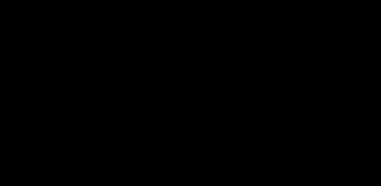
Bemærk venligst, at de oplyste værdier er et uddrag af prøvningsrapporten.
For yderligere oplysninger henvises til prøvningsrapporten, se nummer ovenfor.

Aarhus, den 3-6-2021 dato Jes Sig Andersen Seniorspecialist	Skorstensfejerpåtegning

På baggrund af ovennævnte emissioner attesteres det hermed, at fyringsanlægget opfylder emissionskravene i bilag 1 til Bekendtgørelse nr. 541 af 27/4-2020 om regulering af luftforurening fra fyringsanlæg til fast brændsel under 1 MW.

Installasjonshåndbok (NO) / Installationsmanual (SE) / Asennuskäsikirja (FIN) / Installatie handleiding (NL)





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