



AERA

**MONTAGEANLEITUNG
INSTALLATION MANUAL
NOTICE D'INSTALLATION
ISTUZIONI DI MONTAGGIO
MONTAGEHANDLEIDING
NAVODILA ZA MONTAŽO**

ruegg
SWITZERLAND

English

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1 Principles

1.1 Pictures

The pictures used in these manual are designed to be as generally applicable as possible. For this reason, under certain circumstances the details of individual pictures may differ from those of your product.

1.2 Crosshatches

Crosshatches used in these instructions have the following meaning:



Concrete



Wood



Masonry or porous concrete



Air gap, cavity with or without active rear ventilation



Solid brick (chimney brick)



Thermal insulation (mineral)



Fireclay; casing/external cover

Thermal insulation; nbb, RD $\geq 80 \text{ kg/m}^3$ 

Fire resistant plate; nbb



Wooden beams

nbb means: non-flammable building materials/coatings

2 Safety

2.1 Regulations

- The AERA is type-tested and authorized according to EN 16510-2-1:2022
- Values from the EN test are published primarily. Where the test does not provide sufficient information, country-specific values from CH and DE were used. The installer is responsible for this validity.
- The appliances have been tested for closed operation only.
- The appliances are suitable for time-limited operation (INT). They may be operated with the approved fuels without any time restrictions.
- All local regulations, including the corresponding national and European standards, must be met and take precedence over the installation manual.
- The system installer is responsible for compliance with country-specific legislation.
- Installations may only be carried out by qualified specialists in accordance with the details in this manual and the statutory provisions. If this is not the case, Rüegg rejects any guarantee and liability.

2.2 Warnings

Warning and safety information is used to mark the following hazards:



Indicates a potentially hazardous situation. If not avoided, this situation can be fed to death or most serious injuries.

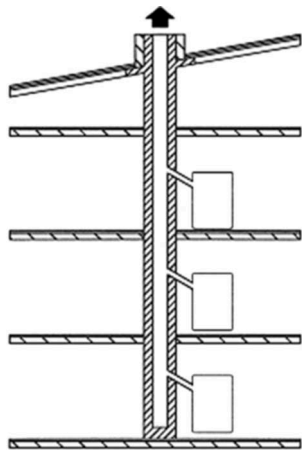


Indicates a potentially hazardous situation. If not avoided, it can result in minor injury.



Indicates a potentially harmful situation. If not avoided, can result in damage to those of your product or the surrounding area.

2.3 Multiple use

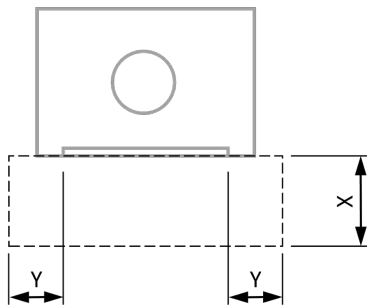


Fireplace inserts with self-closing doors may be connected to a chimney designed for multiple use.

Fireplace inserts with doors that do not close independently may only be installed individually on a chimney flue.

The valid local regulations and the manufacturer's instructions are to be followed when installing the flue gas system!

2.4 Precoat

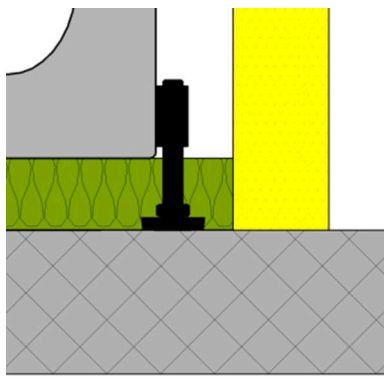


Combustible floors in front of fireplace inserts need to be protected by a non-flammable precoat in front of the pane.

The precoat is not measured or determined in the EN test. Thus, the country-specific regulations apply in this case.

Directive	Country	X [cm]	Y [cm]
VKF fire protection application / state-of-the-art paper VHP (2017 version)	CH	≥ 40	≥ 10
TR OL (2010/2017 edition)	D	≥ 50	≥ 30

2.5 Substrate



The substrate on which the unit is installed needs to be sufficiently sturdy. The adjustable feet are used for alignment. The regulations in the “Fire Resistance” section need to be followed.

NOTICE

A substrate with sufficient load-bearing capacity!

The substrate needs to be strong enough to support the full weight of the appliance.

- ▶ Check the load-bearing capacity of the substrate.
- ▶ Place adjustable feet directly on the load-bearing substrate.

3 Transport

3.1 Packaging

The Aera is secured to a wooden pallet and packed in a cardboard box. We recommend transporting the components in their original packaging to the installation site. The cardboard packaging is fully stackable up to 250 kg. Damaged packaging can no longer be stacked.

The following points are to be followed for the transport of the Aera :

- Secure the Aera for transportation
- Avoid transporting it lying down
- Remove any unsecured single parts from the firebox
- For transportation, the appliances may not be braced over the housing, otherwise they will buckle.

3.2 Delivery

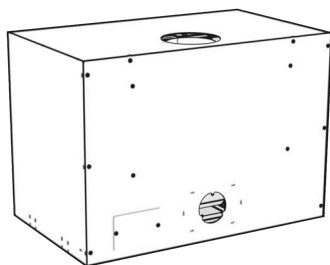
- To ensure the supplied Aera is fully intact, check for any damage incurred during transportation and measure the dimensions.
- Check the function of the doors before installation.
- Report any defects to the customer service department immediately before installation.
- Read this manual carefully before installation.

4 Installation

4.1 Alignment

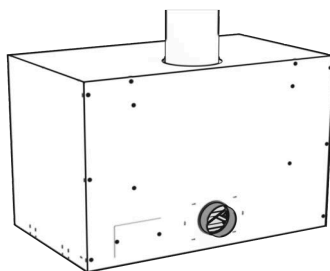
The appliance needs to be precisely aligned at the installation location with the help of a spirit level. Before applying the casing, you need to perform a functional check of the door to ensure it operates properly. If the appliance is not precisely aligned, components of the door mechanism may make noise or jam!

4.2 Interior air



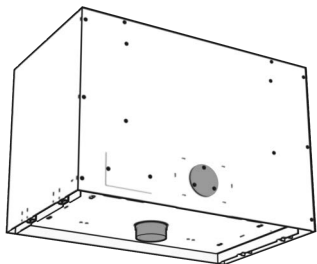
The appliance is shipped ready for use with ambient air. The rear panel is open for this purpose.

4.3 Combustion air at the rear



Secure the fresh air inlet to the back panel

4.4 Combustion air at the bottom

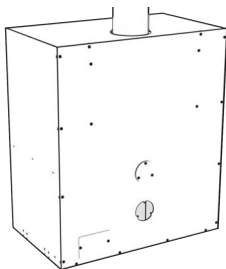


Cover the opening on the back panel.

Break out the perforations at the bottom.

Secure the fresh air inlet at the bottom.

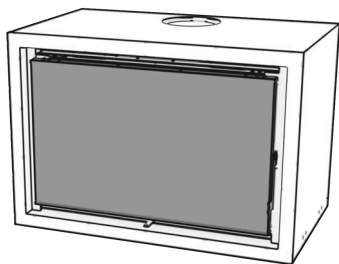
4.5 Combustion air conditions urban



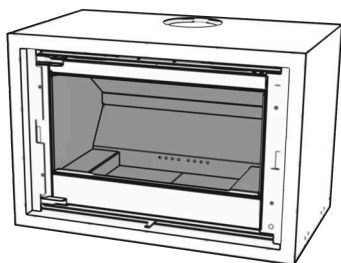
The appliance is shipped ready for indoor use.
The rear panel is open for this purpose.

There are two positions available for the combustion air at the rear.

4.6 First weight reduction

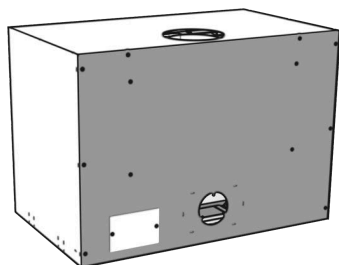


Remove the door.

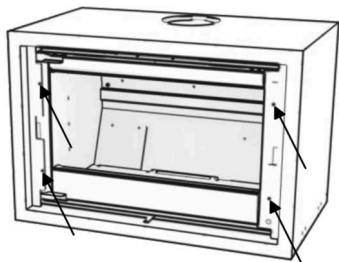


Remove the firebox.

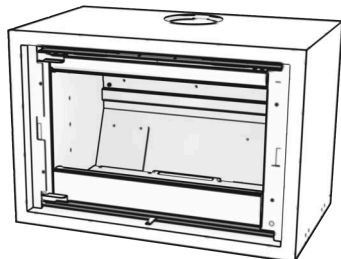
4.7 Second weight reduction



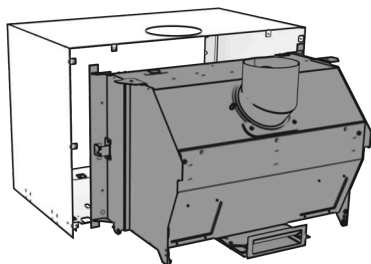
Remove the back panel.



Loosen the screws.

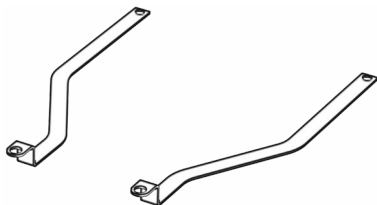


Remove the grilles at the top and bottom.



Slide the base unit out of the casing.

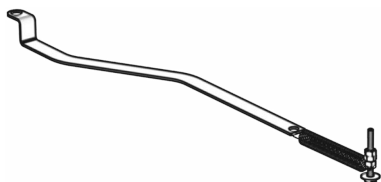
4.8 Self-closing doors - Type A1



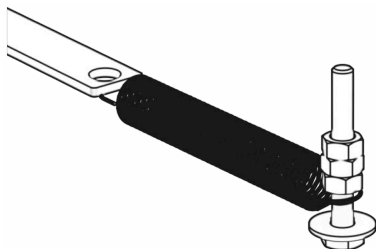
The Type A1 kit includes two metal plates.

The left plate is used for the left-hand door handle.

The right plate is used for the right-hand door handle.

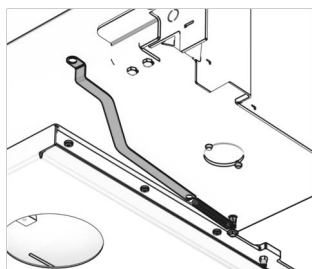


The components may be pre-assembled.



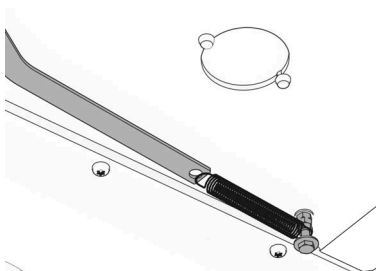
Order:

Screw
Washer
Spring
3 x Nut

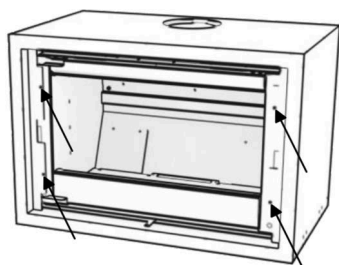


The screw may be secured all the way into the base plate.

In this illustration, the door handle is on the left.

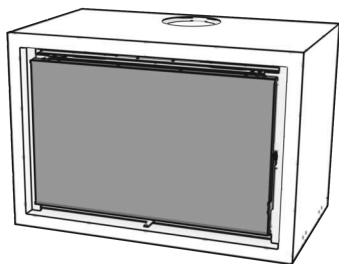


Detail of the securing operation.

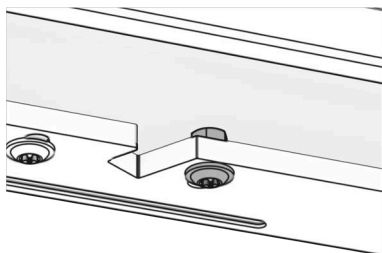


Secure the Plug-in panel frame or front frame with four screws.

The Plug-in panel frame is shown in the illustration.

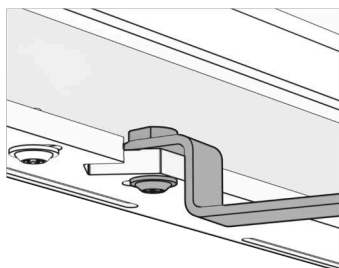


Install the door.



If there is an existing door, loosen the screw and nut.

The screw is needed.
The nut may be recycled.



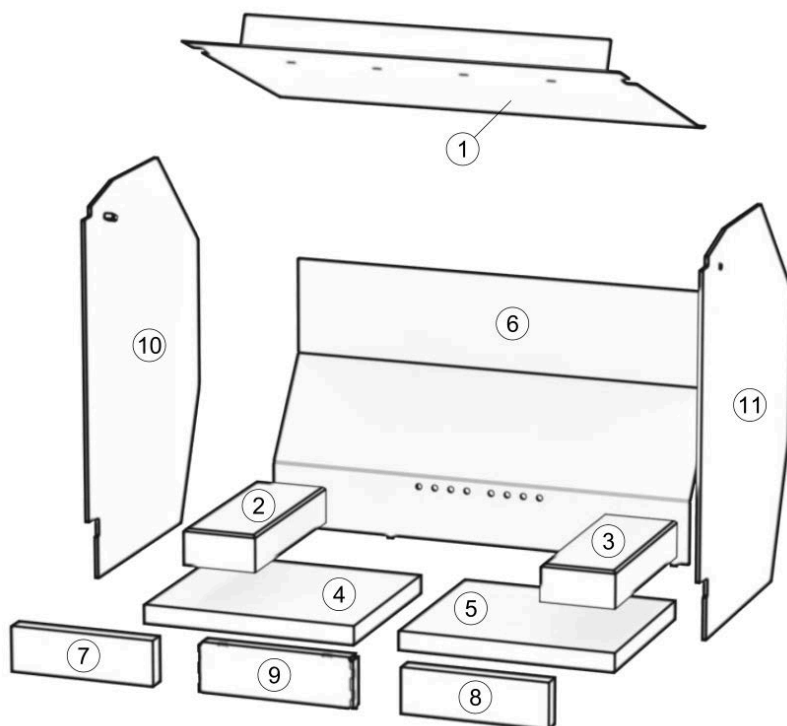
The turned part has a thread. Assemble the turned part together with the sheet metal and screw.

Install the grilles at the top and bottom.

5 Combustion chamber lining

5.1 Installation

The combustion chamber lining consists of wall, floor and baffle plate. The combustion chamber lining may be disassembled in the order specified. We recommend the reverse order for installation.



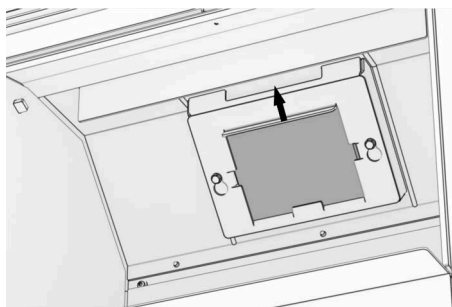
1. Move the baffle plate up until the pin is no longer blocked. Remove/install baffle plate.
2. Remove/replace side combustion chamber stone.
3. Remove/replace side combustion chamber stone.
4. Remove/replace floor stone.
5. Remove/replace floor stone.
6. Remove/replace rear wall.
7. Remove/replace front stone.
8. Remove/replace front stone.
9. Remove/replace air duct.
10. Remove/install side plate.
11. Remove/install side plate.

5.2 Handling of catalyst (Star appliances)

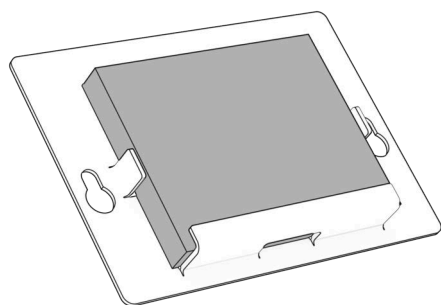
The catalyst can be found above the baffle plate. The catalyst may be disassembled in the order listed. We recommend the reverse order for installation.

NOTICE**Fragility!**

Impact should be avoided, and it is important not to drop the catalyst as this can be fed to its destruction.



Slide the bracket up with the handle facing upwards and remove.



Remove the catalytic converter from the bracket.

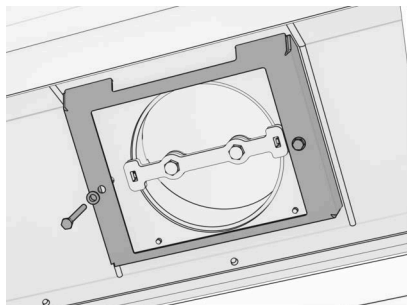
5.3 Installing a catalytic converter (Star appliances)

The catalysts are coated with a layer of catalytically active materials. This coating may be composed of mixed metal oxides or even noble metals. To ensure that the effectiveness of this catalytically active layer is not compromised, we recommend that you only handle the catalysts with gloves, preferably disposable gloves.

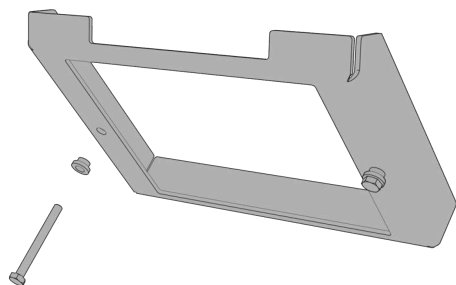
NOTICE

Fragility!

Impact should be avoided, and it is important not to drop the catalyst as this can be fed to its destruction.

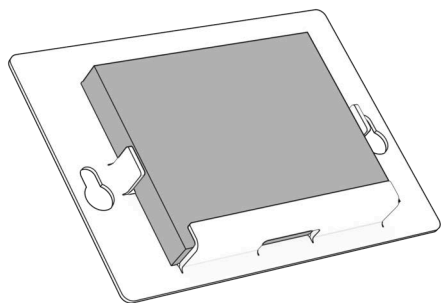


Mount the base plate with two turned parts and two screws

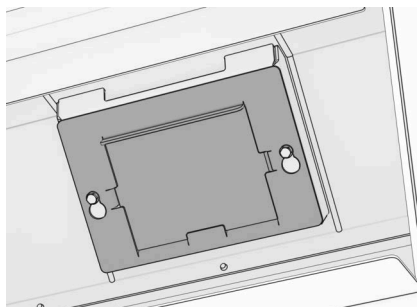


Sequence:

Base plate
turned part
screw



Position the catalytic converter on the bracket.



Insert the bracket with the catalytic converter into the base plate and let it snap into place.

6 Combustion air

6.1 Supply

- Rüegg-Aera is designed so that the combustion air can be fed to the appliance for closed operation separately from the room air. The combustion air is fed directly into the appliance from outside the installation room and supplied to the fire internally.
- Cross-section 78 cm² (connection support Ø 10 cm)

6.2 Air pipe

- Preferably, supply lines should have a round cross-section with a smooth interior.
- Mineral supply lines (e.g. brickwork) must have a wear-resistant interior.
- Supply lines must be at least 3 cm thick along their entire length, non-flammable and thermally insulated.
- A fine-mesh, removable facade sieve must always be installed in the facade as a supply line connection. The flow resistances declared by the manufacturer must be followed.
- The cross-section of 78 cm² (Ø 10 cm) may not be reduced! If smaller cross-sections are installed based on calculations, the installer does so at his own risk. The proper functioning of the system is not guaranteed.
- Outside air lines with a cross-section of 78 cm² (Ø 10 cm) may not exceed the following maximum lengths:

with semi-rigid aluminium pipes ("Aluflex"): $L_{\max} = 6 \text{ m}$

with smooth-walled tubes: $L_{\max} = 8 \text{ m}$

6.3 Exhaust systems with integrated or external combustion air supply

In principle, all appliances with an externally supplied combustion connection can be connected to such a chimney.

However, exhaust gas systems with integrated or adjacent combustion air ducting have technical hurdles and properties that can lead to malfunctioning:

- These systems may have an initial draft in the fresh air duct. This draft is subject to the physical conditions of the two openings of smoke outlet and Inlet of fresh air as well as the local wind conditions (negative pressure effect with passing air).
- The increased resistance in the fresh air duct needs to be taken into account. As the resistance increases, the combustion quality of the fire deteriorates.

These factors may be responsible for the following effects:

- Poor start to the fire
- No clean burn-out
- Heavier soiling on the panes
- Backfiring from the fire through the air ducts into the fresh air duct

Countermeasures and structural solutions that address the issue are as follows:

- flue gas fan
- bypass damper in the fresh air intake to draw in air from the room during the start-up phase until the chimney has reached a sufficient temperature.
- Avoids low-pressure situations in the living room

If these technical challenges are adequately addressed, the appliance may be connected to an exhaust

system with an integrated or adjacent combustion air duct. Country- and region-specific regulations are still to be followed.

Rüegg may not provide any liability guarantees for installations on such systems, as well as other installations such as long fresh air lines or reductions of the chimneys outside the details mentioned in the installation manual, since the structural and geological situation needs to be assessed on site.

6.4 Air valve

To prevent cold air from entering, cold bridges and condensation, we recommend installing a tightly closing air valve near the facade.

6.5 Combustion air supply and simultaneous operation with other appliances

The HeatCube requires a sufficient supply of combustion air to operate. If the appliance is operated in a building with mechanical ventilation, extractor hoods or other air-extracting devices, it must be ensured that no dangerous pressure situation can arise that can lead to an uncontrolled exhaust gas backflow.



Extractor fans that are operated in the same room or air system as fireplaces may be a serious problem.

7 Flue gas system

7.1 General

The flue gas system needs to be designed and authorized for use with wood-burning fireplaces. The flue gas system must comply with national and local regulations and must meet the following requirements as a minimum:

Temperature class	T400	(Nominal operating temperature $\geq 400^{\circ}\text{C}$)
Sootfire resistance class:	G	(System with soot fire resistance)
Corrosion resistance class:	2	(natural wood)

7.2 Length

- The determined draft in the flue gas system must be between 10 - 20 Pa. Measured in the firebox or in the connecting piece with the throttle valve and air slide fully open.
- Flue gas systems without a flue gas fan with lengths $L \leq 4\text{ m}$ are not authorized.
- The draught conditions need to be checked by means of suitable measurements before the system is encased.
- To achieve stable draught conditions, a flue gas fan may be installed in the flue gas system.

7.3 connecting piece

When installing the connector, the following requirements need to be met.

- Authorised materials:

steel	$\geq 2\text{ mm}$ sheet thickness
chromium-nickel steel	$\geq 1\text{ mm}$ sheet thickness
- The connection piece must be routed directly and in a flow-efficient manner from the fireplace insert to the chimney.
- All connections need to be permanently heat-resistant and sealed.
- Ducts for connection pieces that lead through combustible environments must be professionally executed. National and local regulations must be observed.
- Provisions for regular cleaning must be made.

7.4 Cross-section

- If the cross-section installed is smaller or larger than that calculated or measured, the installer does so at their own risk. The system needs to be guaranteed to function perfectly.
- The following faults may be possible:
 - Condensation due to excessive cooling of the flue gases
 - Smoke formation due to insufficient draft

NOTICE**Flue gas temperature**

The flue gas temperature is the average temperature measured at the nozzle during the test at nominal heat output. This may be changed if the firing behavior is changed.

7.5 Triple values

Appliance	Standard finish Ø [cm]	Flue gas mass flow [g/sec]	Flue gas temperature [°C]	Minimum discharge pressure [Pa]
Aera one	15	7.7	213	12
Aera two	15	8.3	207	12
Aera three	15	8.1	219	12
Aera urban one	15	7.7	213	12
Aera urban two	15	8.3	207	12
Aera urban three	15	8.1	219	12
Aera one Star	15	6.9	203	12
Aera two Star	15	7.7	208	12
Aera three Star	15	8.6	196	12
Aera urban one Star	15	6.9	203	12
Aera urban two Star	15	7.7	208	12
Aera urban three Star	15	8.6	196	12

7.6 Chimney loading

When installing the chimney, the following requirements need to be met.

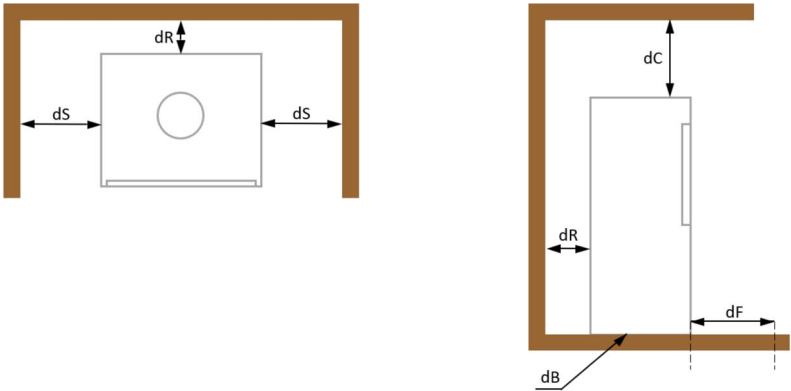
Appliance	max. chimney load [kg]
Aera one	50
Aera two	50
Aera three	50
Aera urban one	50

Aera urban two	50
Aera urban three	50
Aera one Star	50
Aera two Star	50
Aera three Star	50
Aera urban one Star	50
Aera urban two Star	50
Aera urban three Star	50

8 Fire resistance

8.1 Positioning

When positioning the appliance, you need to ensure that the required distances from flammable materials are maintained.



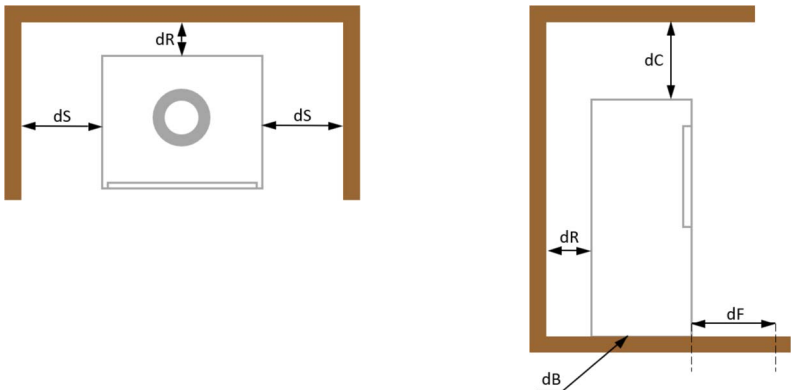
Appliance	Distance to the side [cm]	Distance from the back wall [cm]	Ground clearance [cm]	Distance to the front [cm]	Distance to the ceiling [cm]
	dS	dR	dB	dF*	dC
Aera one	15	10	0	0	70
Aera two	15	10	0	0	70
Aera three	15	10	0	0	70
Aera urban one	15	10	0	0	70
Aera urban two	15	10	0	0	70
Aera urban three	15	10	0	0	70
Aera one Star	15	10	0	0	70
Aera two Star	15	10	0	0	70

Aera three Star	15	10	0	0	70
Aera urban one Star	15	10	0	0	70
Aera urban two Star	15	10	0	0	70
Aera urban three Star	15	10	0	0	70

*If the dF value is greater than 0, a simple underlayment panel is not sufficient. The floor needs to be constructed with non-flammable materials in accordance with the value in the table.

8.2 Positioning of the protected flue pipe

When using an insulated flue pipe or a heat shield on the flue pipe, the minimum clearance dR from the combustible wall is reduced.



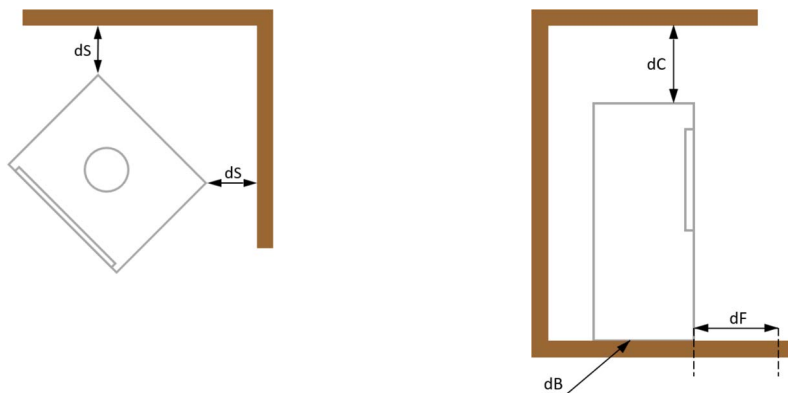
Appliance	Distance to the side [cm]	Distance from the back wall [cm]	Ground clearance [cm]	Distance to the front [cm]	Distance to the ceiling [cm]
	dS	dR	dB	dF*	dC
Aera one	15	5	0	0	70
Aera two	15	5	0	0	70
Aera three	15	5	0	0	70
Aera urban one	15	5	0	0	70
Aera urban two	15	5	0	0	70

Aera urban three	15	5	0	0	70
Aera one Star	15	5	0	0	70
Aera two Star	15	5	0	0	70
Aera three Star	15	5	0	0	70
Aera urban one Star	15	5	0	0	70
Aera urban two Star	15	5	0	0	70
Aera urban three Star	15	5	0	0	70

*If the dF value is greater than 0, a simple underlayment panel is not sufficient. The floor needs to be constructed with non-flammable materials in accordance with the value in the table.

8.3 Corner positioning

When positioning the appliance in a corner, the following clearances from combustible materials need to be maintained.



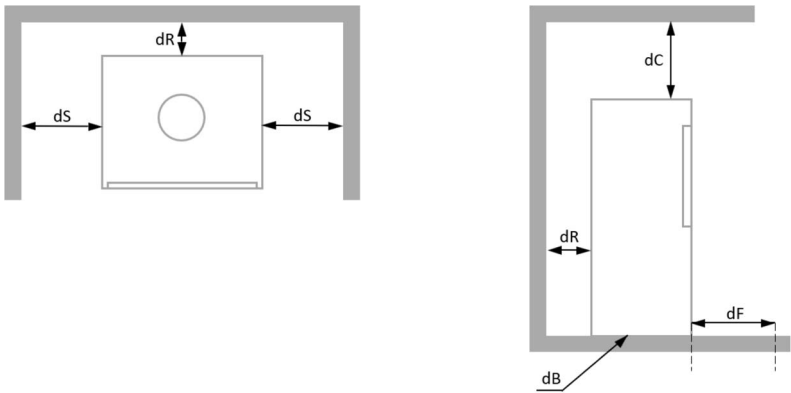
Appliance	Distance to the side [cm]	Ground clearance [cm]	Distance to the front [cm]	Distance to the ceiling [cm]
	dS	dB	dF*	dC
Aera one	5	0	0	70
Aera two	5	0	0	70
Aera three	5	0	0	70
Aera urban one	5	0	0	70

Aera urban two	5	0	0	70
Aera urban three	5	0	0	70
Aera one Star	5	0	0	70
Aera two Star	5	0	0	70
Aera three Star	5	0	0	70
Aera urban one Star	5	0	0	70
Aera urban two Star	5	0	0	70
Aera urban three Star	5	0	0	70

*If the dF value is greater than 0, a simple underlayment panel is not sufficient. The floor needs to be constructed with non-flammable materials in accordance with the value in the table.

8.4 Non-flammable

When positioning the appliance against a non-flammable wall, the following clearances may be maintained.



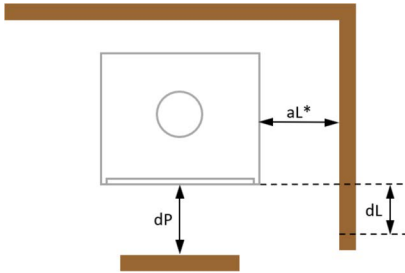
Appliance	Distance to the side [cm]	Distance from the back wall [cm]	Ground clearance [cm]	Distance to the front [cm]	Distance to the ceiling [cm]
	dS	dR	dB	dF*	dC
Aera one	5	5	0	0	70
Aera two	5	5	0	0	70

Aera three	5	5	0	0	70
Aera urban one	5	5	0	0	70
Aera urban two	5	5	0	0	70
Aera urban three	5	5	0	0	70
Aera one Star	5	5	0	0	70
Aera two Star	5	5	0	0	70
Aera three Star	5	5	0	0	70
Aera urban one Star	5	5	0	0	70
Aera urban two Star	5	5	0	0	70
Aera urban three Star	5	5	0	0	70

*If the dF value is greater than 0, a simple underlayment panel is not sufficient. The floor needs to be constructed with non-flammable materials in accordance with the value in the table.

8.5 Safe distance

Within the appliance's radiation range, safety distances from flammable materials need to be maintained.



Appliance	dP [cm]	dI [cm]	aL** [cm]
Aera one	110	0	15
Aera two	110	0	15
Aera three	110	0	15
Aera urban one	110	0	15
Aera urban two	110	0	15

Aera urban three	110	0	15
Aera one Star	110	0	15
Aera two Star	110	0	15
Aera three Star	110	0	15
Aera urban one Star	110	0	15
Aera urban two Star	110	0	15
Aera urban three Star	110	0	15

** A statement about dL may be made only if aL is equal to or greater than the value in the table.

9 Type plate

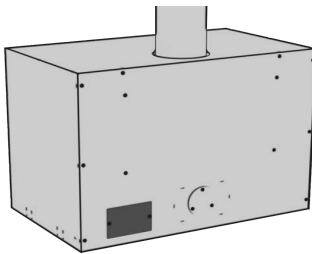
The type plate can be found on the back panel.
For a speedy service, we need the following information:

Device type:

Manufact. no:

Manufact. Date:

Problem description:



1	dB: XX cm	CO _{nom} (13% O ₂): XX mg/Nm ³	19	Power: XX kW	23
2	dF: XX cm	NO _{2,nom} (13% O ₂): XX mg/Nm ³	20	Platenum: XX kW	24
3	dC: XX cm	OGC _{nom} (13% O ₂): XX mg/Nm ³	21	Therm: XX %	25
4	dS: XX cm	PM _{nom} (13% O ₂): XX mg/Nm ³	22	Eff: XX	26
5	dL: XX cm			Label: XX	27
6	dP: XX cm			Typ: XX	28
7	s: XX cm Silica			Temom: XX °C	29
8				Drum: XX Pa	30
9	Kennziffer Prüfstelle / No. d'identification du lab. d'essai: XX				31
10	Prüfnorm / Essai suivant norme: EN 16510-1:2022, EN 16510-2-2:2022				32
11	Verwendungszweck / Motif de l'utilisation: Raumheizung in Wohngebäuden / Chauffage des locaux dans les bâtiments résidentiels				
12	Eine Mehrfachbelegung ist nur bei selbstschließender Tür zulässig. Le raccordement multiple n'est autorisé que pour des foyers à fermeture de porte automatique.				
13	Darf nur als Zeitbrandfeuerstätte (NT) betrieben werden. Foyer ne pouvant être utilisé qu'en feu intermittent (NT).				
14	Lösen und beachten Sie die Bedienungsanleitung. Lisez attentivement la notice d'utilisation.				
15	Ausschließlich empfohlener Brennstoff: Scheitholz. Combustible agréé: Bûches.				
					
	Rüegg Cheminée Schweiz AG CH-8340 Hinwil www.ruegg.ch		16		
	Fabrikationsnr. / No. de fabrication: XXX XXX X XX XXX XXX				18
	XX XX		Datum / Date: dd.mm.yyyy		33

1	dB, Minimum distance below the floor to combustible materials
2	dF, Minimum distance from the front to combustible materials in the lower front radiation area
3	dC, Minimum distance from the top to combustible materials in the ceiling
4	dR, Minimum distance from the rear side to combustible materials
5	dS, Minimum distance from the sides to combustible materials
6	dL, Minimum distance from the front to combustible materials in the lateral front radiation area
7	dP, Minimum distance from the front to combustible materials
8	s, Protective insulation
9	Code number inspection center
10	Test standard according to which the fireplace insert was tested
11	Utilization
12	Multiple use of the fireplace is only authorized if the door closes automatically.

13	May only be operated as a temporary fireplace (INT)
14	Please read the operating instructions and are to be followed at all times.
15	Only use the recommended fuel: firewood.
16	Manufacturer's address
17	Description and generation
18	Fabrication number
19	CO emissions at an oxygen content of 13% at nominal heating output
20	NOx emissions at an oxygen content of 13% at nominal heat output
21	Hydrocarbon emissions at an oxygen content of 13% at nominal heat output
22	Particle emission at an oxygen content of 13% at nominal heating output
23	Rated heating capacity
24	Efficiency of the fireplace at nominal heat output
25	Annual room heating efficiency of the fireplace at nominal heat output
26	Energy efficiency index
27	Label
28	Type
29	Temperature at the outlet pipe at nominal heat output
30	Minimum pressure at rated output
31	Flue gas mass flow at nominal heat output
32	Chimney designation according to the chimney standard
33	Date of manufacture

10 final inspection

Before initial start-up, the following points need to be carried out by the installer:

- ▶ Final visual inspection of the system.
- ▶ Combustion air ensured. At least one pre-perforated cover needs to be removed and the combustion air supply needs to be ensured.
- ▶ Functional check of the doors for low resistance and extraneous noise when opening by locking and unlocking them several times.
- ▶ A functional check of the air slide for low resistance and extraneous noise (light scratching and grinding noises are tolerable).
- ▶ A functional check of the flue gas valve.
- ▶ A functional check of the fresh air valve (if present).
- ▶ A functional check of the flue gas ventilator (if present).
- ▶ Assessment of the flue gas connection for the safe discharge of flue gases.
- ▶ Assessment of the thermal insulation according to the applicable fire protection regulations.
- ▶ Handing over the enclosed operating set, including operating instructions, to the client in person.
- ▶ Providing the client with detailed instructions on operation and possible hazards during operation.
- ▶ Fully completing and returning the warranty card.

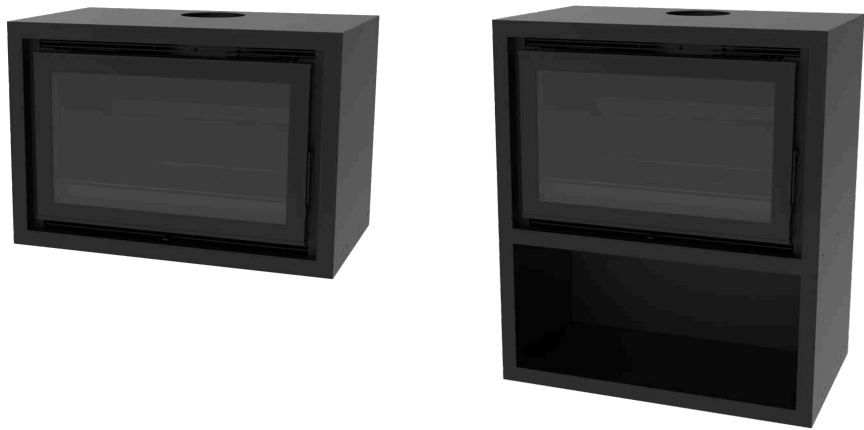
11 Initial start-up

Initial start-up of the system may only take place after the materials used (casing, plaster, etc.) have fully dried out. Please follow the manufacturer's instructions for those of your products used.

- ▶ Carry out the initial start-up as described in the enclosed operating instructions.
- ▶ During the first few firings of your system, unpleasant odours may be caused by the evaporation of binding agents in the paint. Open all windows in the vicinity of your system.
- ▶ During heating and cooling of the fireplace insert, temporary, tension-related cracking noises may occur. These may be of varying intensity depending on the processing.

12 Technical data

The values listed in the following tables are either given by design or they were determined during the type test according to EN 16510.



		Aera one	Aera two	Aera three
External dimensions H × W × D	cm	65x75x50	57x82x50	65x102x50
Weight complete	kg	153	150	191
Wood feed quantity	kg/h	2.1	2.2	2.2
Flue gas mass flow (closed)	g/sec	7.7	8.3	8.1
Flue gas tempera- ture (closed)	°C	213	207	219
Minimum discharge pressure (closed)	Pa	12	12	12
diameter of outlet pipe	cm	15	15	15
Type of fireplace		Typ BE	Typ BE	Typ BE
P _{nom}	kW	8.0	8.3	8.2

η_{nom}	%	≥ 80	≥ 80	≥ 80
η_{S}	%	≥ 70	≥ 70	≥ 70
EEI		106	106	106
CO_{nom} (13 % O_2)	mg/m^3	≤ 1250	≤ 1250	≤ 1250
NO_{Xnom} (13 % O_2)	mg/m^3	≤ 200	≤ 200	≤ 200
OGC_{nom} (13 % O_2)	mg/m^3	≤ 120	≤ 120	≤ 120
PM_{nom} (13 % O_2)	mg/m^3	≤ 40	≤ 40	≤ 40
Tests according to EN 16510	Nr	3014402	2014402	4014402

		Aera urban one	Aera urban two	Aera urban three
External dimensions H x W x D	cm	103x75x50	95x82x50	103x102x50
Weight complete	kg	199	198	247
Wood feed quantity	kg/h	2.1	2.2	2.2
Flue gas mass flow (closed)	g/sec	7.7	8.3	8.1
Flue gas tempera- ture (closed)	$^{\circ}\text{C}$	213	207	219
Minimum discharge pressure (closed)	Pa	12	12	12
diameter of outlet pipe	cm	15	15	15
Type of fireplace		Typ BE	Typ BE	Typ BE
P_{nom}	kW	8.0	8.3	8.2
η_{nom}	%	≥ 80	≥ 80	≥ 80
η_{S}	%	≥ 70	≥ 70	≥ 70
EEI		106	106	106
CO_{nom} (13 % O_2)	mg/m^3	≤ 1250	≤ 1250	≤ 1250

NO _{xnom} (13 % O ₂)	mg/m ³	≤ 200	≤ 200	≤ 200
OGC _{nom} (13 % O ₂)	mg/m ³	≤ 120	≤ 120	≤ 120
PM _{nom} (13 % O ₂)	mg/m ³	≤ 40	≤ 40	≤ 40
Tests according to EN 16510	Nr	3014402	2014402	4014402
		Aera one Star	Aera two Star	Aera three Star
External dimensions H × W × D	cm	65x75x50	57x82x50	65x102x50
Weight complete	kg	154	151	192
Wood feed quantity	kg/h	2.1	2.2	2.2
Flue gas mass flow (closed)	g/sec	6.9	7.7	8.6
Flue gas tempera- ture (closed)	°C	203	208	196
Minimum discharge pressure (closed)	Pa	12	12	12
diameter of outlet pipe	cm	15	15	15
Type of fireplace		Typ BE	Typ BE	Typ BE
P _{nom}	kW	8.2	7.8	8.3
η _{nom}	%	87.3	85.2	85.6
η _S	%	77	75	76
EEI		117	114	114
CO _{nom} (13 % O ₂)	mg/m ³	455	626	623
NO _{xnom} (13 % O ₂)	mg/m ³	93	88	83
OGC _{nom} (13 % O ₂)	mg/m ³	19	31	33
PM _{nom} (13 % O ₂)	mg/m ³	14	13	14
Tests according to EN 16510	Nr	3014402	2014402	4014402

		Aera urban one Star	Aera urban two Star	Aera urban three Star
External dimensions H × W × D	cm	103x75x50	95x82x50	103x102x50
Weight complete	kg	200	199	248
Wood feed quantity	kg/h	2.1	2.2	2.2
Flue gas mass flow (closed)	g/sec	6.9	7.7	8.6
Flue gas tempera- ture (closed)	°C	203	208	196
Minimum discharge pressure (closed)	Pa	12	12	12
diameter of outlet pipe	cm	15	15	15
Type of fireplace		Typ BE	Typ BE	Typ BE
P _{nom}	kW	8.2	7.8	8.3
η _{nom}	%	87.3	85.2	85.6
η _s	%	77	75	76
EEI		117	114	114
CO _{nom} (13 % O ₂)	mg/m ³	455	626	623
NO _{xnom} (13 % O ₂)	mg/m ³	93	88	83
OGC _{nom} (13 % O ₂)	mg/m ³	19	31	33
PM _{nom} (13 % O ₂)	mg/m ³	14	13	14
Tests according to EN 16510	Nr	3014402	2014402	4014402