

INDUO II

Operating manual

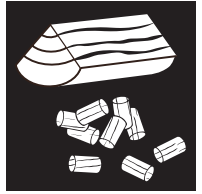


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1. PREFACE

Explanations to symbols


...Important note

...Useful tip


...Hex #8

...Hex #10

...Allen key #6

...Manually

...Scrawl with Metaflux

...Hacksaw

Contact details of the manufacturer

Manufacturer:	RIKA Innovative Ofentechnik GmbH
Contact:	Andreas Bloderer
Address:	Müllerviertel 20 4563 Micheldorf Austria

Details of the device

Model Identifier:	INDUO II PELLET
Equivalent models:	-
Notified body:	Technische Universität Wien, Getreidemarkt 9/166, 1060 Wien, Austria
Notified body no.:	1746
Test report no.:	PL-12101/1-P
Applied harmonised standards:	EN14785:2006
Other applied standards/technical specifications:	-
Indirect heating functionality:	Nein
Direct heat output:	10 kW
Indirect heat output:	-

Characteristics when operating with the preferred fuel

Seasonal space heating energy efficiency η_s :	80,6 %
Seasonal space heating energy efficiency RIKATRONIC η_s :	-
Energy Efficiency Index:	122
Energy Efficiency Index RIKATRONIC:	-

Special precautions for assembly, installation or maintenance

Fire protection and safety distances such as distances to combustible building materials must be observed!
An adequate supply of combustion air for the appliance must be guaranteed at all times. Air-suction systems can interfere with the combustion air supply!
The flue gas values of the appliance must be observed for the chimney dimensioning!

Characteristics when operating exclusively with the preferred fuel

Heat output			
Nominal heat output	P_{nom}	10	kW
Minimum heat output	P_{min}	3	kW
Useful efficiency			
Useful efficiency at nominal heat output	$\eta_{th,nom}$	91	%
Useful efficiency at minimum heat output	$\eta_{th,min}$	94,1	%
Auxiliary electricity consumption			
At nominal heat output	$e_{l,max}$	0,02	kW
At minimum heat output	$e_{l,min}$	0,01	kW
In standby mode	$e_{l,sB}$	0,003	kW
Permanent pilot flame power requirement			
Pilot flame power requirement	P_{pilot}	n.A.	kW

Type of heat output/room temperature control	
single stage heat output, no room temperature control	Yes
two or more manual stages, no room temperature control (**)	No
with mechanic thermostat room temperature control (**)	No
with electronic room temperature control (**)	No
with electronic room temperature control plus day timer (**)	No
with electronic room temperature control plus week timer (**)	No
Room temperature control with presence detection (**)	No
Room temperature control with open window detection (**)	No
with remote control options (**)	No

Details of the fuel

Fuel	Preferred fuel:	Other suitable fuel:	η_s [%]	Space heating emissions at nominal heat output (*)				Space heating emissions at minimum heat output (*)(**)			
				PM	OGC	CO	NO _x	PM	OGC	CO	NO _x
				mg/Nm ³ (13% O ₂)				mg/Nm ³ (13% O ₂)			
Wood logs, moisture content ≤ 25 %	No	No	-	-	-	-	-	-	-	-	-
Wood logs RIKATRONIC, moisture content ≤ 25 %	No	No	-	-	-	-	-	-	-	-	-
Compressed wood, moisture content < 12 %	Yes	No	80,6	10	3	42	130	-	-	-	-
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	-	-	-	-	-	-	-	-	-

(*) PM = dust, OGC = gaseous organic compounds, CO = carbon monoxide, NO_x = nitrous gases

(**) Only required when applying correction factors F(2) or F(3)

Signed for and on behalf of the manufacturer by:
Andreas Bloderer / product management

Micheldorf, 16.12.2021

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Contact details of the manufacturer

Manufacturer:	RIKA Innovative Ofentechnik GmbH
Contact:	Andreas Bloderer
Address:	Müllerviertel 20 4563 Micheldorf Austria

Details of the device

Model Identifier:	INDUO II WOOD
Equivalent models:	-
Notified body:	Technische Universität Wien, Getreidemarkt 9/166, 1060 Wien, Austria
Notified body no.:	1746
Test report no.:	PL-12101/2-P
Applied harmonised standards:	EN13240:2001/A2:2004/AC:2007
Other applied standards/technical specifications:	-
Indirect heating functionality:	Nein
Direct heat output:	10 kW
Indirect heat output:	-

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Seasonal space heating energy efficiency RIKATRONIC η_s :	75,6 %
Energy Efficiency Index:	114
Energy Efficiency Index RIKATRONIC:	114

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Useful efficiency at minimum heat output	$\eta_{th,min}$	85,9	%
Auxiliary electricity consumption*			
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In standby mode	$e_{l,sB}$	0,003	kW
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Pilot flame power requirement	P_{pilot}	n.A.	kW

*RIKATRONIC

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				mg/Nm ³ (13% O ₂)				mg/Nm ³ (13% O ₂)			
Wood logs, moisture content ≤ 25 %	Yes	No	75,6	27	28	792	101	-	-	-	-
Wood logs RIKATRONIC, moisture content ≤ 25 %	Yes	No	75,6	27	28	792	101	-	-	-	-
Compressed wood, 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	-	-	-	-	-	-	-	-	-

(*) PM = dust, OGC = gaseous organic compounds, CO = carbon monoxide, NO_x = nitrous gases

(**) Only required when applying correction factors F(2) or F(3)

Signed for and on behalf of the manufacturer by:

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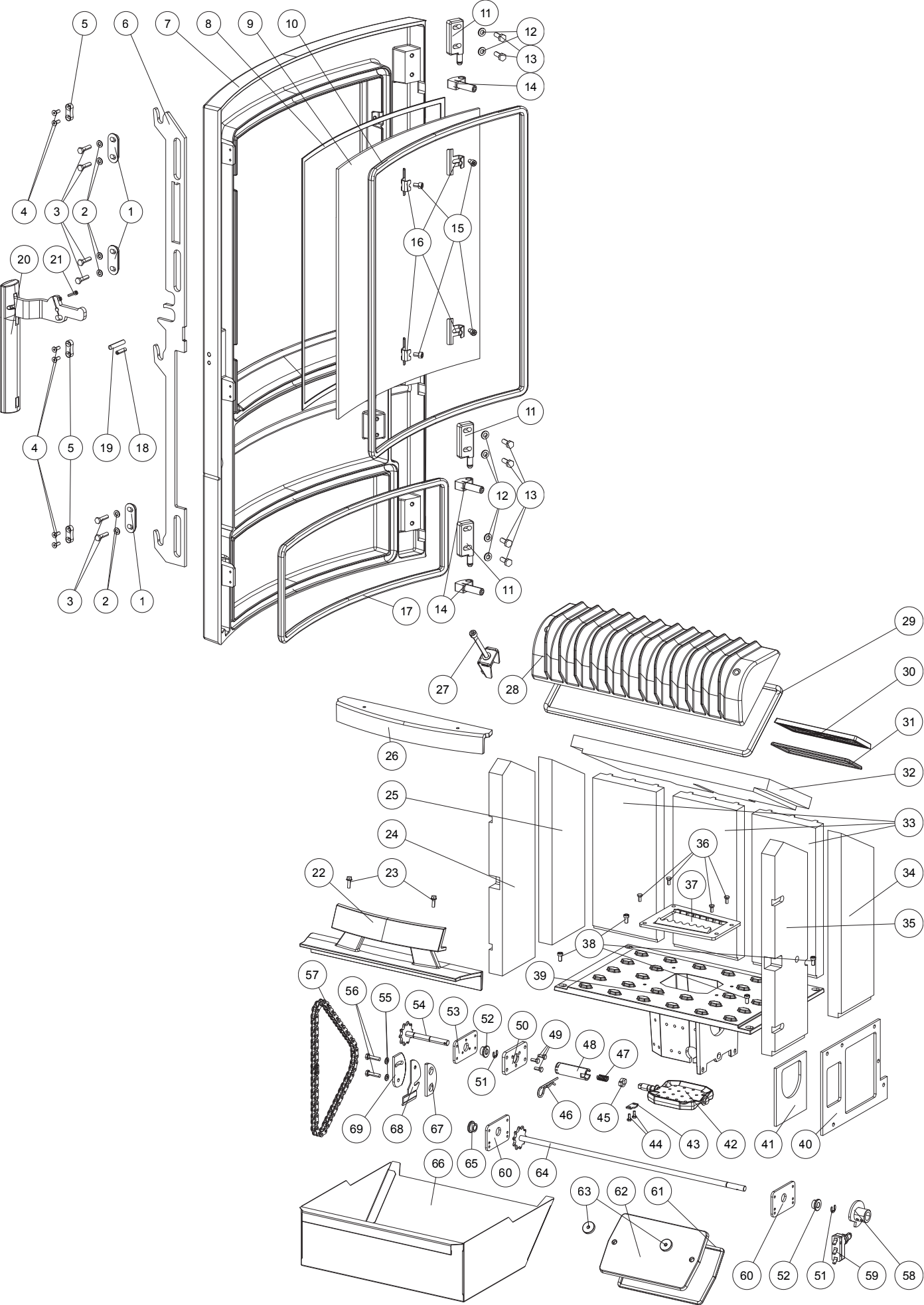
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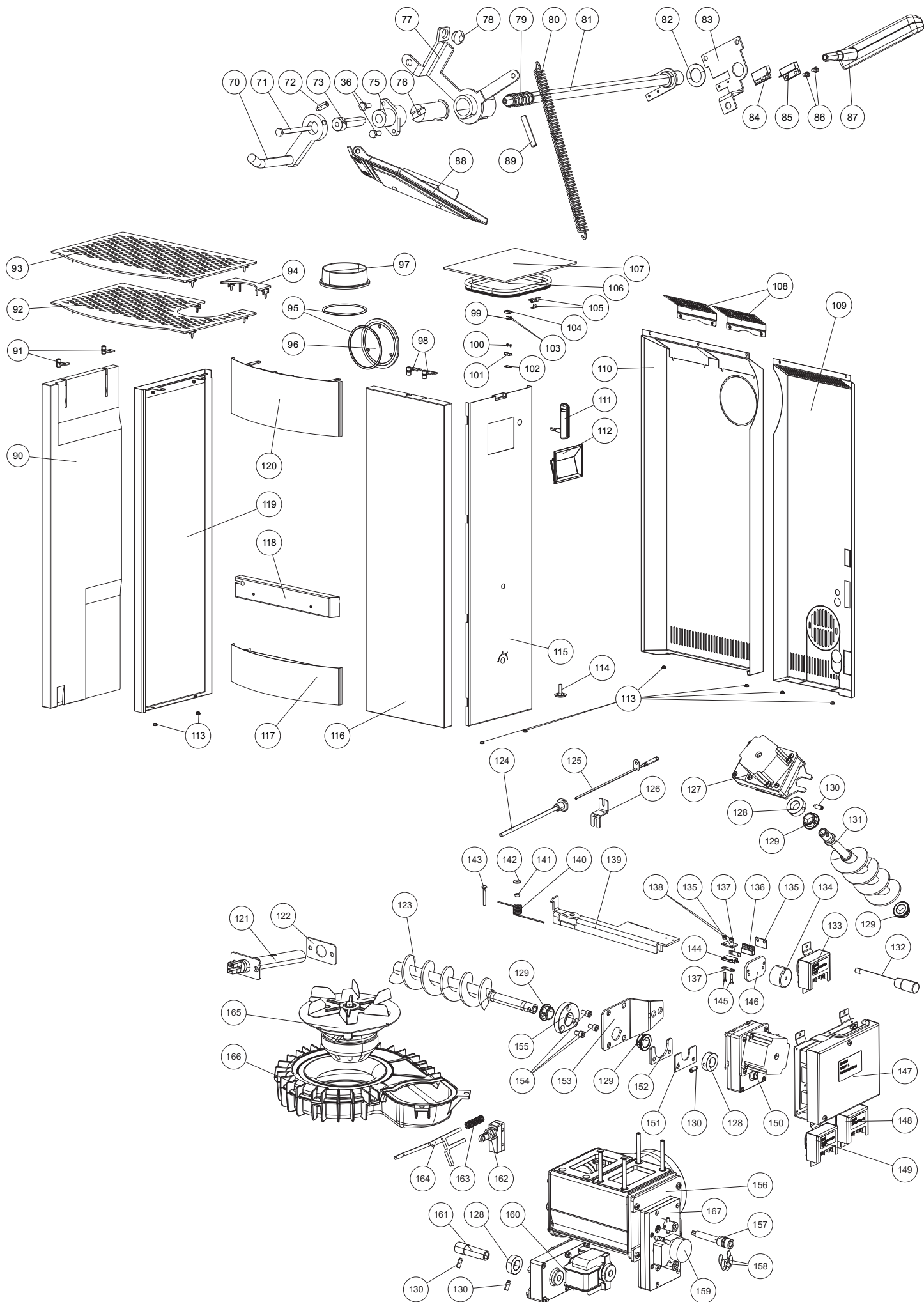
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3. TECHNICAL DATA

Spare part overview exploded diagram





Spare part overview article numbers

Nr.	Art.Nr.	Description
1	L02007	Guide stone
2	N111965	Washer M05
3	N111866	Hexagonal screw M05X20
4	N111856	Hexagonal countersunk screw M04x12
5	L01957	Closure plate
6	L02010	Door lock
7	B16564	Door metallic assy
	B16972	Door compleet, black
8	N103693	Flat seal black 8x2
9	Z34303	Door glass (ceramic glass)
10	N112551	Round sealing strip grey D11 (1m)
11	Z34472	Hinge plate
12	N112175	Washer
13	N103964	Hexagonal screw M06x16
14	Z34457	Hinge
15	N112075	Allen screw M05X08
16	L02574	Glass holder
17	N112551	Round sealing strip grey D11 (1m)
18	N111637	Setscrew door opener M05X20
19	N111798	Cylindrical pin door opener
20	B16565	Door opener assy
21	N112065	Cylinder screw M03X14
22	Z34554	Wood retainer metallic
	Z36928	Wood retainer black
23	N111947	Self-tapping screw M05x16
24	Z34412	Firebrick lining front left
25	Z34411	Firebrick lining rear left
26	Z34553	Air scoop metallic
	Z36252	Air scoop black
27	Z35555	Angle bracket and allen screw
28	B18224	Heat exchanger cover metallic
	B16679	Heat exchanger cover black
29	N111320	Sealing cord grey D14
30	B16682	Flue gas chute lid
31	N103066	Round sealing strip black D06
32	Z36658	Baffle plate
33	Z34409	Firebrick lining rear
34	Z34410	Firebrick lining rear right
35	Z34413	Firebrick lining front right
36	N103560	Hexagonal screw M05x10
37	L02008	Fire trough tray
38	N111846	Hexagon socket 06x12
39	Z36643	Fire trough
40	Z34468	Sealing
41	Z36935	Seal
42	Z34244	Turning grid
43	L02044	Turning grid support
44	N112148	Hexagonal screw M04X10
45	L01875	Driving plate turning grid
46	N112470	Spring clip
47	N108131	Pressure spring

Nr.	Art.Nr.	Description
48	Z33924	Intermediate shaft turning grid
49	N107521	Hexagonal screw M05x12
50	Z34824	Bearing clamping plate metallic
	Z34965	Bearing clamping plate black
51	N104718	Circlips D08
52	N108310	Sinter bearing ID10
53	Z34757	Bearing plate top metallic
	Z34966	Bearing plate top black
54	B16553	Sprocket top
55	N100172	Washer
56	N110928	Screw M06X25
57	Z34557	Chain turning grid
58	B16559	Actuating cam turning grid
59	N111825	Contact switch
60	Z34461	Bearing plate bottom metallic
	Z34964	Bearing plate bottom black
61	N111631	Round sealing cord grey D06
62	B16680	Cleaning cover
63	N112093	Milled nut (cleaning cover)
64	B16957	Sprocket bottom
65	Z34555	Sinter bearing ID 10,2 sprocket out
66	L02952	Ash drawer
67	Z35158	Spacer chain guide / clamping plate
68	Z35302	Chain guide
69	Z35303	Clamping plate
70	B16675	Flap lever flue gas flap
71	N112283	Hexagonal screw M05X55
72	N112499	Grub screw M6x16
73	Z36535	Shaft of fluegas flap
75	Z36925	Bearing
76	Z36926	Shaft of fluegas flap
77	B18135	Lever fluegas flap
78	Z18997	Rubber buffer
79	N112321	Pressure spring
80	Z34471	Tension spring flue gas flap
81	B18087	Hinge shaft
82	N112120	O-ring
83	L02954	Holder plate
84	N111732	Magnetic switch top part
85	N111733	Magnetic switch bottom part
86	N112409	Hexagon socket screw M03X05
87	B17925	Flap handle
88	B17340	Fluegas flap assy
89	N112315	Cylindrical pin
90	Z34565	Soapstone option, lateral
91	B18082	Stone retainer
92	B16576	Convection cover metallic assy
	B16965	Convection cover assy, black
93	E15143	Cover, flue pipe connection rear, metallic
	E15356	Cover, flue pipe connection rear, black
94	B16577	Flue pipe cover metallic

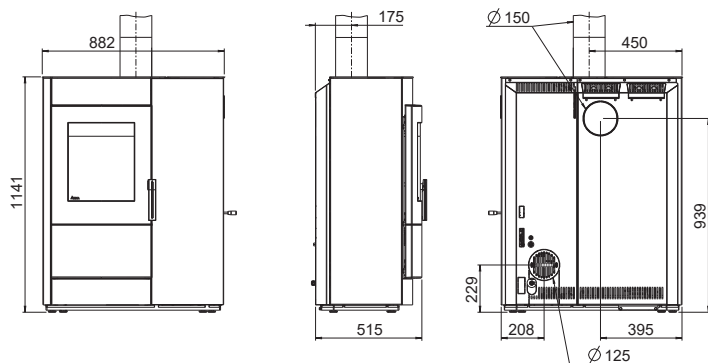
Note: Please consider the powdercoated parts can differ slightly in colour and colour effects though they are elaborated in high quality. Fairing parts with minor damage cannot be repaired and must therefore be replaced as spare parts. There is no matching RAL colour for the painted fairing parts.

Nr.	Art.Nr.	Description
	B16966	Flue pipe cover black
96	Z21690	Blind cover metallic
97	Z30137	Flue pipe attachments (without seal) metallic grey D150
	Z20556	Flue pipe connection black D150
98	B17100	Stone retainer
99	N112143	Hexagonal nut M03
100	N111842	Hexagon socket M03x10
101	N111733	Magnetic switch bottom part
102	L01445	Switch spacer
103	N112144	Washer M03
104	N111732	Magnetic switch top part
105	N110461	Double ball catch
106	N111731	Container seal
107	B16578	Container lid metallic grey assy
	B16971	Container lid black assy
108	Z34994	Cleaning opening metallic
	Z34995	Cleaning opening black
109	Z36659	Rear wall right metallic grey
	Z36661	Rear panel right, black
110	Z34486	Rear wall left metallic grey
	Z34971	Rear panel left black
111	B17925	Flap handle
112	B16574	Touch-display plug-in
113	N111730	Grommet
114	N112490	Levelling screw black
115	B17924	Right side panel metallic
	B17931	Right side panel black
116 *1	Z34483	Soapstone front
	E15755	Quartz front anthracite grey
	Z36545	Frontstone white
117	B16570	Cover panel, bottom metallic
	B16960	Casing panel bottom black
118	Z34479	Cable cover metallic grey
	Z34967	Cable cover black
119	B16566	Side panels steel metallic grey left
	B16964	Side casing panel, left black
120	B16568	Front top metallic
	B16961	Front top black
121	B17923	Ceramic ignition
122	Z36293	Seal for ignition
123	Z34464	Insertion screw
124	B15248	Sensor tube
125	B16676	Flame temperatur sensor
126	L01954	Pressure bracket
127	N111862	Screw motor, stepless
128	Z11915	Lock ring conveyer screw
129	Z35182	Friction bearing D16
130	N112499	Grub screw M6x16
131	Z34463	Discharge auger
132	B16798	Handle burnback flap
133	B16030	Additional motherboard for motor, incl. cable

Nr.	Art.Nr.	Description
134	Z34790	Electromagnet
135	L01445	Switch spacer
136	N111732	Magnetic switch top part
137	L02310	Guard plate
138	N111942	Self-locking nut
139	Z34885	Activator security flap
140	Z34529	Torsion spring
141	Z35524	Spacer
142	N104195	Washer
143	N112299	Hexagonal screw M04X30
144	N111733	Magnetic switch bottom part
145	N112044	Hexagon socket screw M03X16
146	L02012	Magnet plate
147	B16561	Mainboard USB11
148	B16672	Additional board
149	B16671	Additional board
151	L02250	Bearing holding plate
152	L02605	Bearing collar plate
153	L02604	Motor plate
154	N111967	Allen screw M06x10
155	Z35752	Bearing retaining ring
156	B16547	Air regulator assy
157	B18088	Extension of actuator
158	N112220	Circlips
159	N111817	Air regulator motor
160	N111880	Turning grid motor
161	Z34467	Coupling turning grid motor
162	N111825	Contact switch
163	N112309	Pressure spring door contact
164	Z35156	Stop bar
165	B19655	Fan motor packed
166	B16951	Induced draft fan housing
167	B16464	Transmission air regulator
	N111604	Fuse 2,5 A
	Z34841	Cable for additional motherboard
	E15745	Sealing kit
	B16581	Wiring harness
	*1	Front Quartz only available with Metallic side trim

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Dimensions



Dimensions

Height	[mm]	1141
Width	[mm]	882
Corpus depth	[mm]	515

Weight

Weight without shell	[kg]	305
Weight with shell	[kg]	345
Weight with soap stone sideways (optional)	[kg]	385

Flue Pipe Connection

7,5 Pt	[mm]	150
Depth from rear wall to middle of flue pipe	[mm]	175
Side distance	[mm]	450
Rear connection height	[mm]	939
Rear connection side distance	[mm]	395

Fresh Air Connection

Diameter	[mm]	125
Connection height	[mm]	229
Side distance	[mm]	208

Amount of fuel

	Nominal Load	Part Load
Log operation	2,8 kg	1,4 kg
Pellet operation	~2,2 kg/h*	~0,7 kg/h*
Burn time at full pellet hopper	~14 h*	~53 h*

*Practical values may vary depending on pellet quality.

Note

Pellet consumption depends on the size of the pellets. The larger the pellet, the slower the feed and vice versa.

Electrical connection

The stove is supplied with an approx. 2m long connecting cable with a Euro-plug. This cable is to be connected to a 230Volt/50Hz socket. The average electrical power consumption is about 20 Watt in heating operation. And approx. 150 Watt during automatic ignition. The connection cable must be laid so that there is no contact to any sharp edges or hot surfaces of the stove.

Technical data

Description	Measure	Data
Heating capacity range	[kW]	3 - 10
Room heating capacity depending on house coating	[m³]	70 - 260
Pellet consumption	[kg/h]	≤2,4
Pellet container capacity*	[l]/[kg]	51/~33
Electric supply	[V]/[Hz]	230/50
Average electrical input	[W]	~ 20
Fuse	[A]	2,5 T

Pellet Operation	Measure	Data
Heating capacity range	[kW]	3 - 10
Fresh air demand	[m³/h]	22
Efficiency in pellet mode	[%]	91
CO ₂	[%]	13,3
CO-emission on 13% O ₂	[mg/m _N ³]	42
Dust emission	[mg/m _N ³]	10
Exhaust	[g/s]	5,4
Exhaust temperature	[°C]	214,7
Chimney draft requirement	[Pa]	3

Log Operation	Measure	Data
Heating capacity range	[kW]	5 - 10
Fresh air demand	[m³/h]	26
Efficiency in log mode	[%]	86
CO ₂	[%]	9,7
CO-emission on 13% O ₂	[mg/m _N ³]	792
Dust emission	[mg/m _N ³]	27
Exhaust	[g/s]	10,1
Exhaust temperature	[°C]	216,2
Chimney draft requirement	[Pa]	12

*The capacity in kg may deviate due to different pellet bulk densities.

The owner of small firing systems or the person authorised for the small firing system is to keep the technical documentation and is to submit it to the authorities or the chimney sweep on request.

Note

Please observe the national and European standards as well as local regulations concerning the installation and operation of firing installations!

Packaging

Your first impression is important to us!

The packaging of your new stove provides excellent protection against damage. However damage to the stove and accessories may still occur during transport.

Note

Therefore please check your stove on receipt for damage and completeness! Report any deficiencies to your dealer immediately! Pay particular attention during unpacking that the stone panels remain intact. Scratches to the material can easily occur. Stone panels are excluded from the warranty

The packaging of your new stove is environmentally neutral to a great extent.

Tip

The wood used in the packaging has not been surface treated and may therefore be burnt in your stove. The cardboard and film (PE) can be disposed of via the municipal waste collection for recycling.

4. IMPORTANT INFORMATION

General warning and safety information

Observance of the introductory general warning information is imperative.

- Read the entire manual thoroughly before installing and putting the stove into service. Observe the national provisions and laws as well as the regulations and rules applicable locally.
- RIKA stoves should only be installed in rooms with normal humidity (dry areas according to VDE 0100 Part 200). The furnaces are not splash water protected and may not be installed in wet areas.
- Only approved transport equipment with sufficient load carrying capacity may be used with your heating appliance.
- Your heating appliance is not suitable for use as a ladder or stationary scaffolding.
- The burning of fuel releases heat energy that lead to extensive heating of the stove surfaces, doors, door and operating handles, glass, flue pipes and possibly the front wall. Refrain from touching these parts without appropriate protective clothing or equipment e.g. heat-resistant gloves or means of operation (operating handle).
- Make your children aware of this particular danger and keep them away from the stove during heating.
- Only burn approved heating materials.
- The combustion or introduction of highly flammable or explosive materials such as empty spray cans etc. in the combustion chamber and storing them near the stove is strictly prohibited due to the danger of explosion.
- No light or inflammable clothing is to be worn when post-heating.
- Use the heat-resistant gloves supplied to open the doors of your stove.
- Only use suitable tools from our range of accessories when handling embers and make sure that no embers fall out of the combustion chamber onto inflammable material.
- Push the embers together to form a firebed when you add new fuel (logs).
- Placing non-heat resistant objects on the stove or near it is prohibited.
- Do not place clothing on the stove to dry.
- Laundry racks etc. must be placed at a sufficient distance to the stove – ACUTE DANGER OF FIRE!
- When your stove is burning, the use of highly inflammable and explosive materials in the same or adjacent rooms is prohibited.
- If the stove is heated in continuous operation, the cleaning intervals are shorter. Increased wear, especially of the thermally stressed parts, is the result. Please therefore strictly follow the requirements for cleaning and maintenance!

Note

Waste and liquids may not be burnt in the stove!

Note

To prevent your stove from overheating of the internal components, do never cover the convection fins!

Note

CAUTION when filling the pellet container. The opening of the pellet container is sufficiently dimensioned to ensure easy filling. Take great care that no pellets drop to the convection fins and the hot stove body. This can cause a lot of smoke.

Tip

Therefore we recommend refilling the pellet container at a cold stove.

Note

Your stove will expand and contract during the heating and cooling phase. This can sometimes lead to slight bending or cracking noises. This is normal and is no reason for a complaint.

First heating

The stove body, just as various steel parts, cast iron parts and the flue pipes are painted with a heat resistant paint. During the first heating the paint dries out completely. This may cause a slight smell. Touching or cleaning the painted surfaces during the curing should be avoided. The hardening of the paint is finished after the first heating with high power.

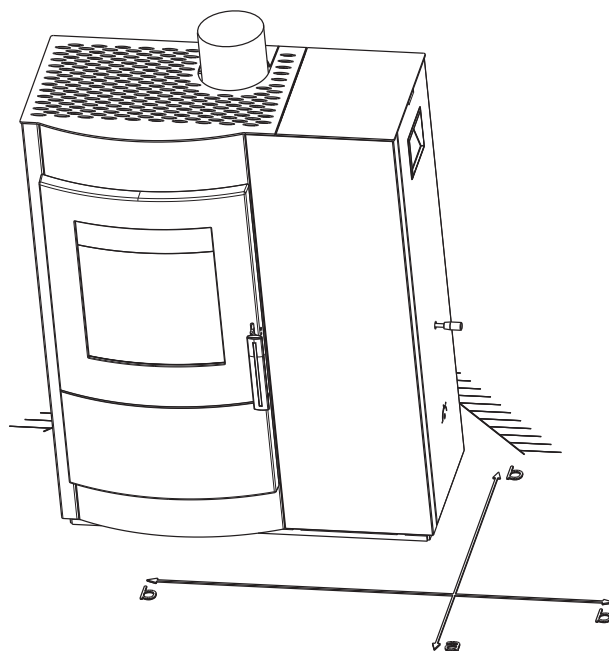
Safety distances

Note

1. To non-combustible objects
 $a > 40 \text{ cm}$, $b > 10 \text{ cm}$
2. To combustible objects and reinforced concrete load-bearing walls
 $a > 80 \text{ cm}$, $b > 20 \text{ cm}$

Tip

Please observe a minimum distance of 20 cm behind and sideways the stove for maintenance.



Prior to set up

Floor bearing capacity

Ensure that the substructure is capable of bearing the weight of the stove prior to set-up.

Note

No modifications may be made to the firing installation. This also leads to loss of warranty and guarantee.

Floor protection

A glass, sheet steel or ceramic plate is required, if the floor is combustible (wood, carpet, etc.).

Flue pipe connection

- Flue pipes pose a particular source of hazard regarding gas leaks and fire. Get the advice of an authorised specialist company for the layout and assembly.
- Please observe the corresponding installation guidelines for walls panelled with wood when connecting your flue pipes to the stove,
- Observe the formation of flue gas (atmospheric inversion) and draughts when the weather is unfavourable.
- Infeed of too little combustion air can lead to smoke in the rooms or to flue gas leaks. Hazardous deposits in the stove and chimney may also occur.
- If flue gas escapes, let the fire burn out and check whether all the air inlet openings are free and the flue gas pipes and the stove pipe are clean. If in doubt notify the master chimney sweep since draught malfunctions may be connected to your chimney.

Stoves type 1 (BA 1):

- These may only be operated with the combustion chamber door closed.
- Suitable for multiple occupancy. (note the different country regulations)
- The combustion chamber door may only be opened to add fuel and must then be closed again otherwise other firing installations connected to the chimney may be endangered.
- The combustion chamber door is to be kept closed when the stove is not in operation.
- Fouling of the chimney i.e. deposits of highly inflammable materials such as soot and tar and subsequently fire in the chimney may occur if the chimney is miscalculated and dimensioned wrong and if wet wood is used.

If fire in the chimney occurs, disconnect the mains plug of the stove. Phone the fire brigade and get yourself and other residents out of harm's way.

Note

Due to the size of the combustion chamber door it is necessary not to open the door abruptly, to prevent the flames coming out. Especially when reheating into blazing flames.

Note

on ROOM-AIR DEPENDENT and ROOM-AIR INDEPENDENT OPERATION:

Your stove has been tested as a room-air independent stove according to EN13240 and to EN14785 and can be installed as well room-air dependent and independent. In Germany it does not conform to the requirements for room-air independent operation.

When installed room-air dependent in combination with room-air installations (e.g. controlled ventilation and venting systems (extractors etc.) it must be ensured that the stove and the room air system are monitored and safeguarded mutually (e.g. via a differential pressure controller etc.).

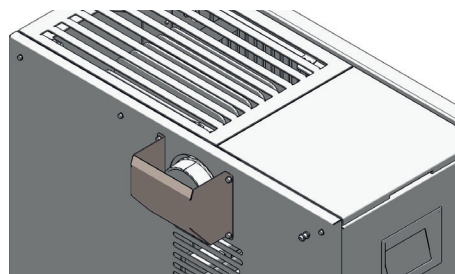
The combustion air infeed of approx. 20 m³/h must be ensured.

Please observe the respective local regulations and rules in consultation with your master chimney sweep. For changes after the printing of this manual, we can not assume any liability. We reserve the right to change without notice.

Convection air conduction

only for stoves with MULTIAIR

The MULTIAIR equipped stove is delivered with a cover on the convection air outlet to prevent direct heat to the wall.



example

Operation without this cover or without attached convection pipes is not allowed. If you do though no warranty and no liability is accepted for damage.

- The amount of air and temperature of one fan is designed to heat one additional room.
- Note the regional specific fire safety regulations and clarify the connection situation with the competent authority
- The max. temperature of the convection air is 180 °C at the air outlet.
- The convection air canal should be as short as possible.
- Keep the number of deflections as small as possible.

Note

Please pay attention to the national and country-specific building and fire regulations when connecting the convection air pipes. Installation and assembly must be performed by a trained specialist only.

5. INSTALLING THE STOVE

Note

Assembly may only be performed by authorised specialist companies.

Note

Please observe the regional safety and building regulations. Please contact your master chimney sweep in this context.

Note

Only use heat-resistant sealing materials as well as corresponding sealing strips, heat-resistant silicon and rock wool.

Note

Also take care that the flue does not project into the free cross-section of the chimney.

Note

In case of room-air independent operation the stove pipe connections must be tightly sealed permanently. Use a heat-proof silicon to position the stove pipe on the conical supports of the flue tube nozzles and for insertion in the chimney flue lining.

Note

The stove should not be pushed on unprotected floors.

Tip

Strong corrugated cardboard, cardboard or e.g. old carpet is useful to assist assembly and as a base. The stove can also be pushed on this cardboard or carpet.

We recommend original flue pipes from RIKa for proper connection.

Connection to the chimney

- The device must be connected to a flue that is approved for solid fuels and is insensitive to moisture. The moisture insensitivity may vary if the flue calculation results in a dry operation. The chimney must have a diameter of min. 100 mm for pellet stoves and 130 mm -150 mm for log wood stoves depending on the diameter of the flue pipes.
- Avoid long flue pipes to the chimney. The horizontal length of the flue pipe should not exceed 1.5 metres.
- Avoid too many bends of the flue gas pipes. There should not be more than 3 bends in the exhaust pipe.
- Please use a connection with a cleaning opening.
- Connections must be made of metal and must meet the requirements of the standard (install the connections airtight).
- Before installing a chimney calculation must be made. The evidence must be performed for single occupancy to EN13384-1 and EN13384-2 for multiple occupancy.
- The maximum draft of the chimney should not exceed 15 Pa.
- The derivation of the flue gases must be guaranteed even during a temporary power outage.

Note

If connecting to multiple connection chimneys and depending on country regulations, additional safety equipment is required. Your local chimney sweep will advise you in this case.

Note

Be sure to prevent condensed water from entering via the flue connection. For combination stoves, a condensate collection pipe must be used for ceiling connection or flue pipe connection at the top. Damages caused by condensate are excluded from manufacturer's warranty.

Connecting to a steel chimney

The connection must be calculated and shown with EN13384-1 and EN13384-2.

Use only insulated (double) stainless steel tubes (flexible aluminum or steel tubes are not permitted).

An inspection door for regular inspection and cleaning must be present.

The flue pipe connection to the chimney has to be air-tight.

Combustion air

Every combustion process requires oxygen from the surrounding air. This so-called combustion air is removed from the living area in the case of individual stoves without external air connections.

This air removed must be replaced in the living space. Very tightly sealed windows and doors in modern flats may mean that too little air replaces that used. The situation also becomes problematical due to additional venting in flats (e.g. in the kitchen or WC). If you cannot feed in external combustion air, then air the room several times a day to prevent negative pressure in the room or poor combustion.

Feeding in external combustion air

only for devices which are able to run in room-air independent operation.

- Combustion air must be fed to the stove from outside via a sealed pipe for operation independent of the room air. According to EnEV, it must be possible to shut off the combustion air pipe. The open/closed setting must be clearly recognisable.
- Connect at the air intake either a pipe Ø 125 mm for log wood and combi stoves, or Ø 50 mm or Ø 60 mm for pellet stoves. Fix it with a hose clamp (not included!). At pellet stoves with longer intake pipes than 1 m the diameter should be increased to 100 mm. (see RIKa range).
- To ensure sufficient air intake, the intake pipe should not exceed max. 4 metres and have max. 3 bends.
- If the line leads outside it must have a windbreak.
- In extreme cold pay attention to icing on the air intake opening (check).
- It is also possible to suction in combustion air directly from another sufficiently vented room (e.g. cellar).
- The combustion air pipe must be tightly connected (adhesive or cement) permanently to the air nozzles of the stove.
- If you do not use the stove for a long time, please close the combustion air intake to prevent the stove from moisture.

Note

Please note that problems may arise due to updrafts in the case of combustion air supply from an integrated chimney ventilation shaft. If the combustion air flowing downwards is heated it may rise and thus counter the chimney with a resistance which in turn reduces the negative pressure in the combustion chamber. The chimney manufacturer is to guarantee that the resistance for the combustion air is a maximum 2 Pa even in the least favourable operating state of the chimney.

If one or more of these conditions does NOT apply, the result is poor combustion in the stove and negative pressure in the installation room.

6. BRIEF INFORMATION ON FUEL - PELLETS

What are pellets?

Wood pellets are a standardised fuel. Every manufacturer must adhere to certain conditions in order to enable flawless, energy-efficient heating. Pellets are made from wooden waste, from sawmills and planning workshops, as well as from residue from forestry operations. These starting products are crushed, dried, and pressed into pellet fuel without any bonding agent.

ENplus – Pellets

This ENplus standard sets benchmarks in the European pellet market. The traceability of pellets is ensured thanks to the use of identification numbers. The pellet manufacturers' production facilities and manufacturing processes are reviewed every year. A quality assurance system ensures the pellets comply with the requirements of the new standard and that the conditions for trouble-free heating are guaranteed.



Wood pellet specification according to ENplus – A1

Parameter	Measure	ENplus-A1
Diameter	mm	6 (± 1) ²⁾
Length	mm	3,15–40 ³⁾
Bulk density	kg/m ³	≥ 600
Calorific value	MJ/kg	$\geq 16,5$
Water content	Ma.-%	≤ 10
Fine fraction ($< 3,15$ mm)	Ma.-%	≤ 1
Mechanical rigidity	Ma.-%	$\geq 97,5$ ⁴⁾
Ash content	Ma.-% ¹⁾	$\leq 0,7$
Ash softening temperature	(DT) °C	≥ 1200
Chlorine content	Ma.-% ¹⁾	$\leq 0,02$
Sulphur content	Ma.-% ¹⁾	$\leq 0,03$
Nitrogen content	Ma.-% ¹⁾	$\leq 0,3$
Copper content	mg/kg ¹⁾	≤ 10
Chrome content	mg/kg ¹⁾	≤ 10
Arsenic content	mg/kg ¹⁾	≤ 1
Cadmium content	mg/kg ¹⁾	$\leq 0,5$
Mercury content	mg/kg ¹⁾	$\leq 0,1$
Lead content	mg/kg ¹⁾	≤ 10
Nickel content	mg/kg ¹⁾	≤ 10
Zinc content	mg/kg ¹⁾	≤ 100

1) in an anhydrous state

2) diameter must be specified

3) a maximum of 1 % of the pellets may be longer than 40 mm, max. length is 45 mm

4) the limit value of $\geq 97,7$ Ma.-% applies when conducting measurements with a lignotester (internal control)

Your pellet stove is only approved for the burning of pellets of tested quality. Please ask your pellet stove dealer for tested fuel and a list of monitored fuel manufacturers.

Note

Only burn pellets that have been inspected according to ENplus – A1. Using poor quality or prohibited pellet fuel will have a negative effect on the function of your pellet stove and can also lead to the warranty becoming null and void, as well as the product liability connected with this.

Note

Burning straw, maize, woodchips etc. is not permitted! Observe waste incineration legislation! Non-observance of these regulations makes void all warranty and guarantee claims and may impair the safety of the unit!

Pellet container refilling during operation

Note

CAUTION when filling! Avoid direct contact between the plastic bag and the hot stove. Immediately remove all pellets that have fallen on the hot stove or next to the container!

We recommend always having a suitable amount of pellets in the container to prevent the fire from extinguishing due to a lack of fuel. Check the level frequently. However the container lid should be kept closed, except during filling.

If you refill the container during operation (open the container lid), the fan will speed up and the pellet auger will stop; operation will only be continued once the container lid is closed again.

Pellet container capacity: (see TECHNICAL DATA)

Pellet storage

In order to guarantee problem free burning of the wooden pellets, it is imperative necessary to store the fuel as dry as possible and free from impurities.

Pellets should not be kept in sacks outdoors or stored in a manner where they are exposed to the environment. This can lead to blockages in the screw conveyor.

Note

Screw stoppers are excluded from the warranty.

7. BRIEF INFORMATION ON COMBUSTIBLE - LOGS

Suitable fuels and fuel amounts

Your stove is generally suitable for burning dry firewood. You can also burn combustibles such as wood briquettes.

Note

A stove is not a waste incinerator. The warranty lapses if waste or non-approved materials such as plastic, treated wood (chipboard), coals or clothes are burnt! This leads to damage to the stove and chimney and to environmental pollution!

Note

FUEL AMOUNTS

The stove is fitted with a construction-specific flat firebox. This means only one layer of logs may be laid on the base embers. Please observe that adding greater quantities of logs leads to emission of high temperatures, higher than the stove is designed for. This may cause damage to your stove. This is reflected in particular on the glass of the combustion chamber door, which will get a gray haze in case of overheating the stove, which can not be removed.

Wood types

Different types of wood have different calorific values. Wood from deciduous trees is particularly suitable. It burns with a constant flame and forms long-lasting embers. Coniferous wood has higher levels of resin and burns off faster as do all softwoods and tends to spray sparks.

Wood type	Calorific value kWh/m ³	Calorific value kWh/kg
Maple	1900	4,1
Birch	1900	4,3
Beech	2100	4,2
Oak	2100	4,2
Alder	1500	4,1
Ash	2100	4,2
Spruce	1700	4,4
Larch	1700	4,4
Poplar	1200	4,1
Robinia	2100	4,1
Fir	1400	4,5
Elm	1900	4,1
Willow	1400	4,1

Output controlling

The output of your stove is regulated manually or via the Rikatronik-control. Please observe that the output of your stove also depends on the chimney draught and the amount of fuel added.

Clean combustion

1. The firewood must be dry and untreated.

The should-be value is between 14 % and 18 % relative wood moisture.

Wood has to be stored dry and ventilated for 2–3 years.

2. Correct firewood amount and size:

- Too much firewood leads to overheating. This can damage your stove and increases the exhaust emission values.
- If you take too little firewood or if the logs you place are too large the stove will not reach the optimum operating temperature. The flue gas values also increase in this case.
- For right quantity of firewood see AMOUNT OF FUEL.

8. TECHNOLOGY AND SAFETY FUNCTIONS

The technological advances in your new combi stove are the result of years of testing and practical experience. The practical advantages of your pellet/log stove are convincing:

The range of operating modes leaves nothing to be desired. The automatic fuel detection means the operating mode can be changed at any time (simply add logs during pellet operation or ignite logs with the pellet burner).

Manually regulated currentless log operation is also possible. This ensures faultless operation even in the case of longer power cuts.

Operating comfort

The microprocessor-controlled combustion regulation optimises the interaction of flue gas blower, air flap position and screw using the current combustion chamber temperature. This guarantees optimum combustion and operating status in both pellet and log operation.

All function can be regulated centrally using the integrated touch display. The intuitive graphic interface permits easy operation; all the settings can be made quickly and simply.

Top efficiency - lowest emissions

A very great heat exchange surface together with optimum combustion air control leads to excellent fuel utilisation.

Fine continuous pellet dosing in an optimised burner pot made of high-quality grey cast iron leads to virtually complete combustion with very good exhaust gas values - and this is guaranteed in every operating phase.

The combination of temperature-controlled automatic air regulation and optimised wood retainer geometry enable combustion with minimum emissions at top efficiency in log operation.

Note

During operation, the flame noise, pellets dropping and actuation of the electronic components are audible due to the automatic control.

Note

The innovative technology of our combination stove INDUO offers you a maximum of heating comfort, depending on the availability of the fuel the stove can be heated with pellets and / or logs without any modification.

Both cases are solid fuels that can cause a fogging of the door glass during the combustion, particularly with the very fine ash from wood pellets.

By external influences such as chimney draft or pellet quality this coating can be very bright or dark black (especially with low power). This is a natural process and is not a shortage.

We therefore recommend regular cleaning of the door glass, just because soot is an excellent insulator and thus the heat dissipation can be reduced.

If the stove is heated according to its function in the combined operation, a significant improvement can be achieved due to the higher temperatures in log wood mode.

Burnback and flue gas flaps

The combi stove safety concept is based on double safeguards. If faultless operation is no longer ensured due to a component defect or power cut, the burnback flap in the pellet chute is released. This directly interrupts the connection between the pellet container and push in screw. Thus preventing pellet burnback. Closing the burnback flap at the same time opens the flue gas flap thus ensuring safe burning off of the fuel in the combustion chamber.

Note

Check with every maintenance / cleaning the correct operation of the flue flaps.

Overheating

A safety temperature limiter (STL) switches the stove off automatically on overheating. Once the stove has cooled, the STB at the stove rear must be unlocked manually (pressed). The stove is ready for operation again after acknowledging the error message at the touch display and activating the burnback and flue gas flap (see ACTIVATING THE BURNBACK AND FLUE GAS FLAP). The operating mode set is retained.

Note

Maintenance and cleaning work must be performed if overheating occurs! If this error recurs, operation without danger is no longer guaranteed; notify customer service immediately.

Low-temperature shutdown

The unit switches off if the stove cools below a minimum temperature. This switch-off may occur if pellet ignition is delayed.

Electrical excess current protection

The stove has a main fuse (at the rear) to protect against excess current.

Automatic cleaning cycle

The speed of the flue gas fan is increased every hour for a short period to blow ash from the burn pot, increasing the operational safety. The status indicator CLEANING appears on the display.

Every 5 hours (interval adjustable) an additionally automatic cleaning cycle is performed. The stove stops, the automatic cleaning tilts the grid and then re-ignites the stove. The status indicator CLEANING appears on the display continuously. The cleaning procedure with tilting the grid is to convey ash and clinker from the burn pot into the ash drawer.

Note

At runtime of the cleaning cycle occurs a noise due to the turning grid (stove start or big cleaning).

Note

This additional function does not replace a manual cleaning as described in CLEANING and MAINTENANCE, as this is absolutely necessary to do regularly.

Component monitoring

All the electrical components used are continuously monitored during operation. If a component is defective or can no longer be actuated correctly, then operation is stopped and a warning or error message is issued (see MANUAL TOUCH DISPLAY).

Auger motor monitoring

Too long or wet pellets as well as pellets with too high dust content (see BRIEF INFORMATION ON FUEL PELLETS) can cause so-called "auger jammers" in the auger channel. This may also happen if the pellets accumulate in the burn pot and the backlog reaches into the chute. The auger motor reacts in both cases with an increased current consumption, which causes the error message: INSERTION MOTOR JAMMED. The stove will be stopped. Please call the customer service immediately.

9. ASSEMBLY/DISMANTLING STONE AND OPTIONS

Note

Only work on the unit when the mains plug has been disconnected and the stove has cooled completely.

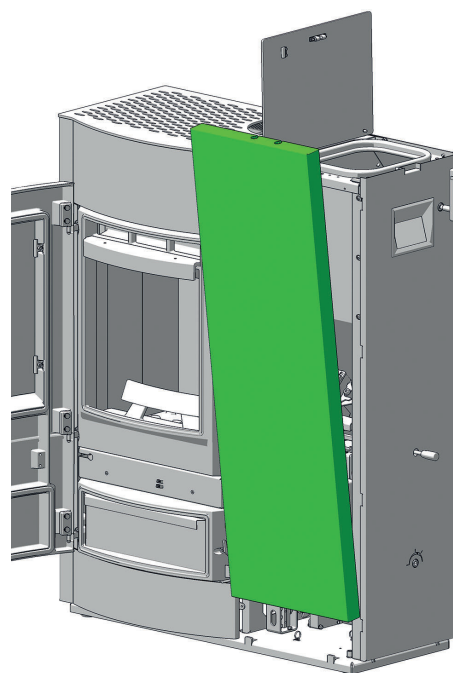
Note

During assembly / dismantling do not allow objects (screws etc.) to fall into the pellet container – they can block the screw conveyor and damage the stove.

Note

During any conversion work, take particular care of your fingers and any panels and stove attachments. Select soft bases to prevent scratches to your living space furniture and stove panels.

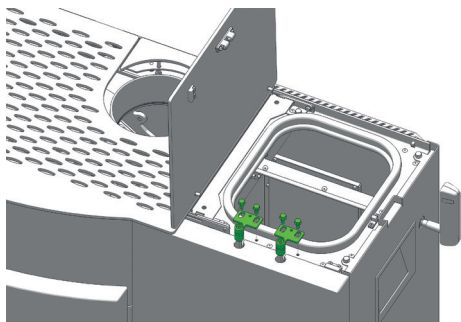
Tip the stone slightly forwards and lift it out of the floor bracing. Pay attention to the edges of the stone to prevent damage. Place the stone on a suitable base.



Dismantling stone

Open the container lid to the stop, it remains open in this position.

Open the 4 hex head bolts and remove the two stone holders.

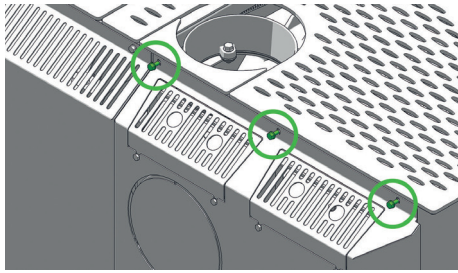


Open the door of the combustion chamber.

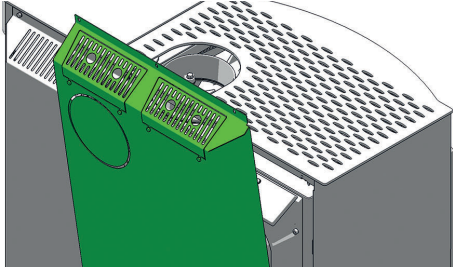
Re-assemble the parts in reverse order.

Conversion to flue pipe connection rear

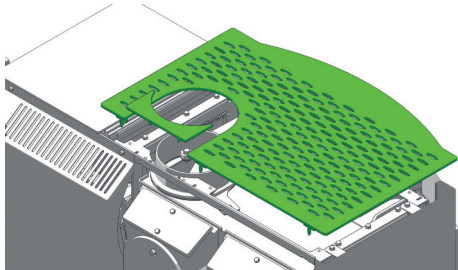
Remove the left rear wall by opening the 3 top hex head bolts.



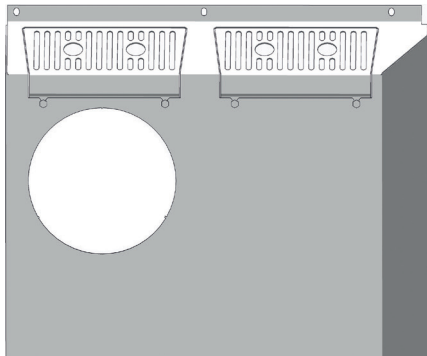
The rear wall is mounted at the floor, it is removed by pressing it back slightly and lifting.



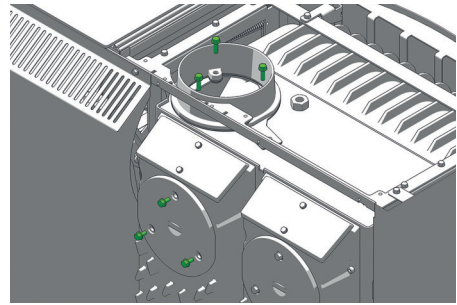
Lift the two covers of the stove by carefully pressing upwards and place them on a clean base.



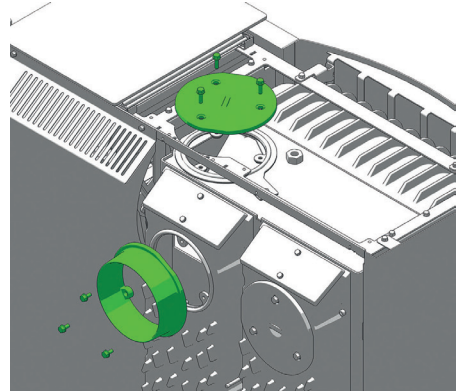
Cut the perforated opening in the left rear wall with a hacksaw and deburr the edges with a round file.



Swap the flue connections and the fluegas cover.

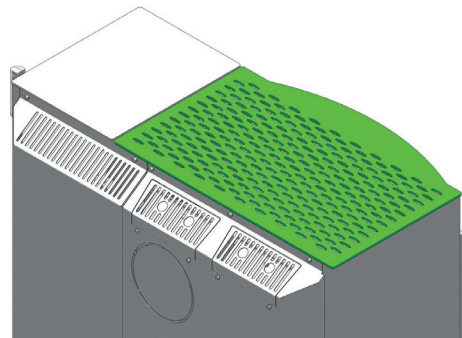


Grease the fastening screw with copper paste.



Re-assemble the parts in reverse order.

With the option for rear flue connection you have the possibility to set up a closed lid. The closed lid must be ordered separately. More detailed information can be obtained from your dealer.



10. BURNBACK AND FLUE GAS FLAP

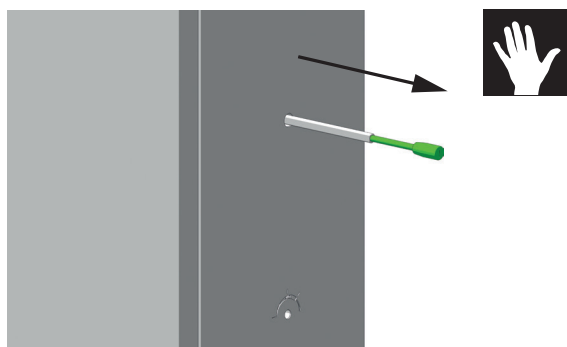
Start of operation

Once the stove has been reconnected to the mains you see the following warning on the display.



The stove cannot be taken into operation as long as the burnback flap is not pulled out and the flue gas flap is not closed yet.

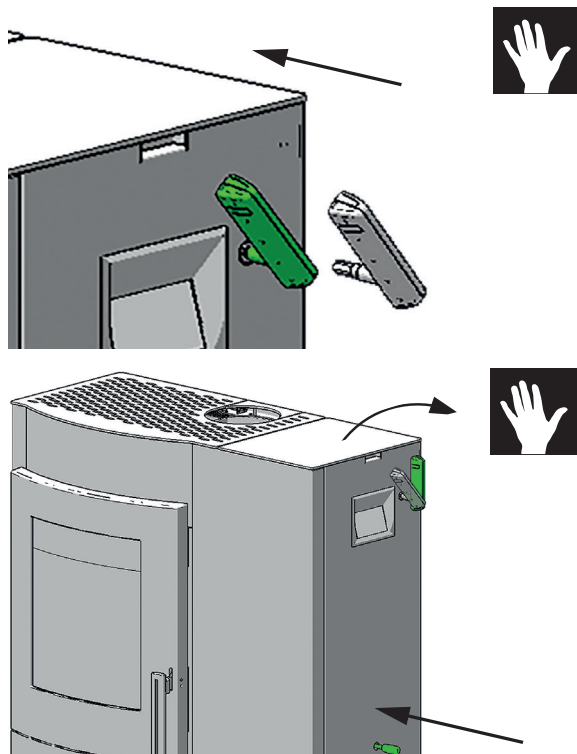
The burnback flap must be pulled out using the handle supplied until it remains open.



Tip

The burnback flap can be pushed back in without problem due to the special mechanism, the black galvanised shaft is thus no longer visible from the outside.

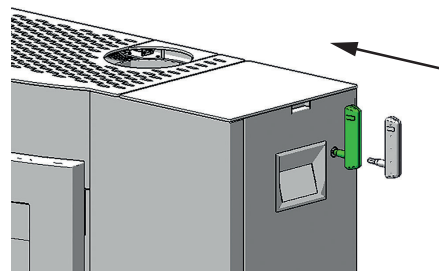
Insert the handle of the flue gas flap into the stove. The handle must then be shifted backwards to close the flap.



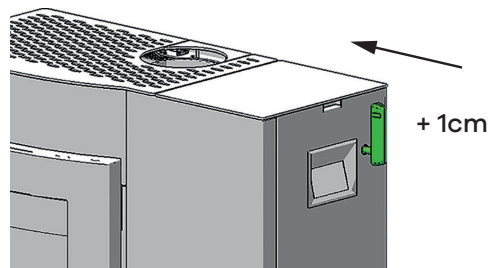
The warning is deleted as soon as the two flaps are activated and the Home menu appears.

Refilling logs - opening flue gas flap

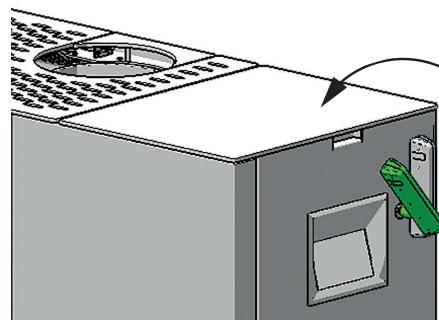
Attach the wrench in shown position.



Press the wrench inside.



Turn the wrench as illustrated. The flue gas flap is now open.



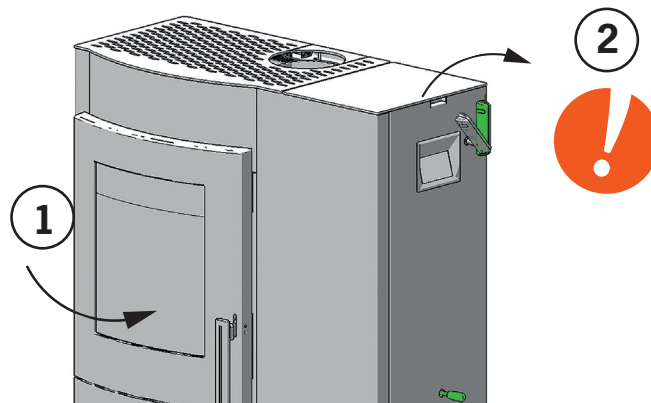
Wait about 3 seconds before you open the combustion chamber door to refuel.

Tip

If the flue gas flap is open, a warning appears on the display. It expires when you close the flue gas flap.

Put one to two logs (max. 2.8 kg) on the embers.

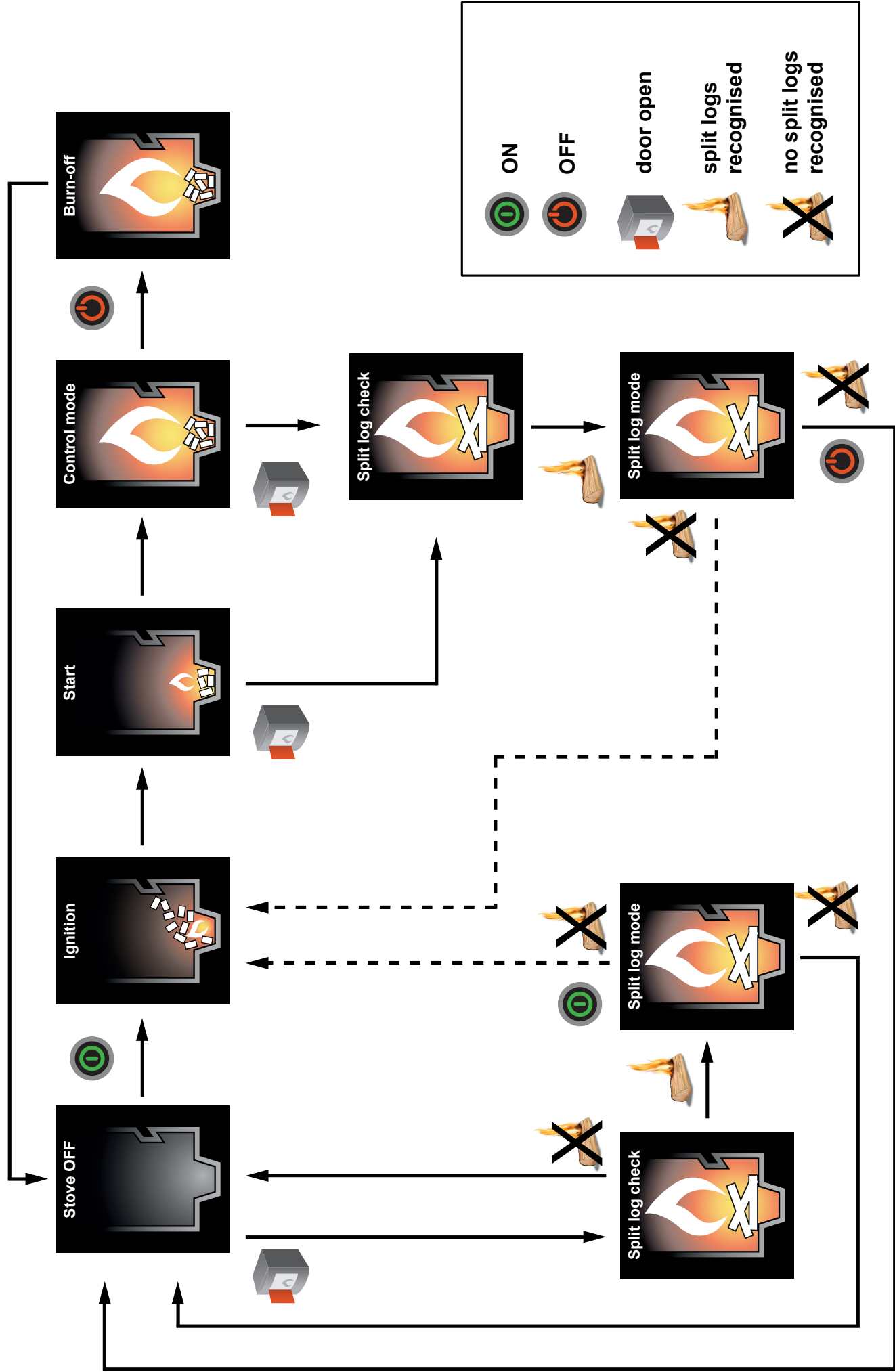
After closing the combustion chamber door, turn back the wrench into starting position.



Note

Pellet operation is not possible with an open flue gas flap.

11. FLOW DIAGRAM PELLET - LOG OPERATION



12. COMFORT OPTIONS

Room sensor, Radio room sensor

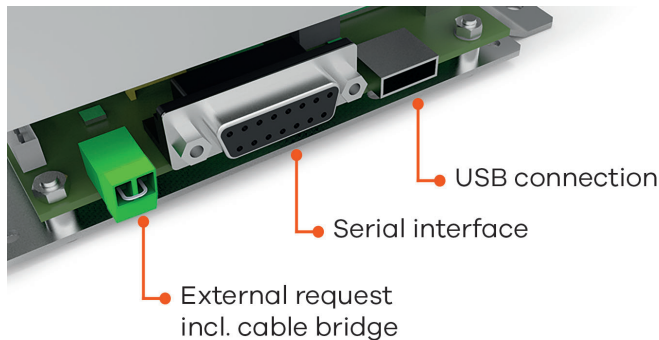
This option permits control of your stove via room temperature. You can set both the room temperature and the heating times required. A room temperature selected by you is observed during the heating times.

Please see the operating instructions for the option room sensor and wireless room sensor for more detailed information.

Interface for various options

for various options

The ROOM SENSOR and the WIRELESS ROOM SENSOR are to be connected to the interface (stove rear) using the connection cable supplied.



(condition as delivered)

External request

- Low-pressure controller* for multiple occupancy (e.g. BROKO - ON by default, see Settings)
- External room thermostat*, Rotary controller* (in conjunction with MULTIAIR)
- Contactor (e.g. exhaust hood)*

* remove cable bridge and connect a 2-pin cable with a section between 0.5 and 0.75mm² instead.

It will take approximately 1 minutes for your stove to shut down after receiving an external shut-down request.

Note
Operation is not possible unless either the cable bridge, or an external request (e.g. an external room thermostat) are connected. The external request has priority over all operating modes (MANUAL / AUTOMATIC / COMFORT).

Serial interface

- RIKA room sensor/ RIKA radio room sensor (available on request)
- RIKA GSM Control (available on request)

USB connection

- RIKA FIRENET (available on request)

External room thermostat

Your stove has an interface on the rear wall to which you can connect a customary room thermostat. This requires a 2-pole cable of 0.5 – 0.75 mm² cross-section that you have to connect instead of the cable bridge fitted for delivery.

External connection cable bridge

If the control of your stove is to be assumed by an external room thermostat, you have to connect your external room thermostat (1) instead of the standard integrated cable bridge (2).

The connected room thermostat can be operated in either MANUAL or AUTOMATIC MODE. In both MODES, the current set heat output is used, in AUTOMATIC MODE the heating times set at the stove can also be activated.

You can see whether the external demand is currently activated in the INFO main menu in submenu item Info - inputs.

If your stove receives an external demand to stop operation, it takes approx. 5 minutes until it switches off. All further settings required to your thermostat can be taken from the respective room thermostat operating instructions.

Note

Operation is not possible unless either a cable bridge or an external room thermostat is connected. The external demand has priority over all operating modes (MANUAL/AUTOMATIC/COMFORT).

Option RIKA FIRENET 2nd Generation

Only for combination and pellet stoves with touch panel version V2.29 or higher.

The FIRENET module connects your stove to the Internet. You can operate the stove with any Internet-enabled device (tablet, PC, Smartphone ...). So you retrieve the operational status, various information and make your settings remotely.

For further information, please contact your dealer.

RIKA VOICE

for combi and pellet stoves with touch display, version V2.26 or above, only and in combination with the RIKA Firenet module and Amazon Alexa

RIKA VOICE allows you to control your RIKA stove by simply speaking to it. Power on or off, switching between modes or adjusting the preferred heat output or room temperature: a few words is all it takes!

More detailed information could be obtained at www.rika.at or from your dealer.

13. MAINTENANCE

The frequency with which the stove requires cleaning and the maintenance intervals depend on the fuel you use. High moisture content, ash, dust and chips may more than double the maintenance required. We would like to again point out that only tested and recommended pellets or dry logs may be used as fuel.

Note

Ash may contain embers – only place ash in sheet steel containers. **FIRE RISK!** In a cold state, dispose it of in the household waste.

Note

We recommend at least once a year to have all maintenance carried out by your RIKA dealer.

Cleaning the fire trough

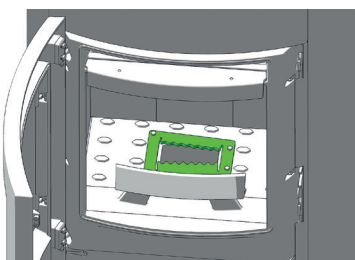
at least weekly

Despite the automatic ash dumping prior to and during heating operation you have to remove ash or clinker from the combustion chamber, from the fire trough and the turning grid regularly.

Use the cleaning function to put the grid vertical.



Remove the clinker using the brush supplied and sweep the ashes with a broom in the ash tray. Vacuum out the fire trough.



Do not damage the ignition when cleaning with the brush. Vacuum out the pipe of the ignition.

Note

Clean the fire trough regularly. Only clean when cold, when embers are extinguished!

Note

To prevent "clinker formation" it is advisable to operate the stove sometimes on higher power level or, according to its combination function, with logs.

Checking the door contact

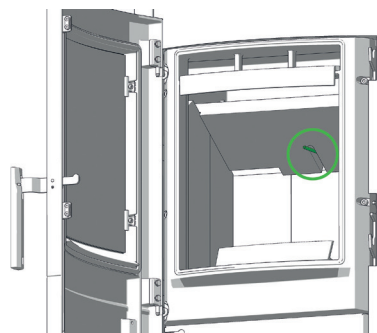
(Only for models with Rikatronic)

Check that the door contact switch is working at regular intervals.

Press the door contact several times with your hand to prevent it from sticking.

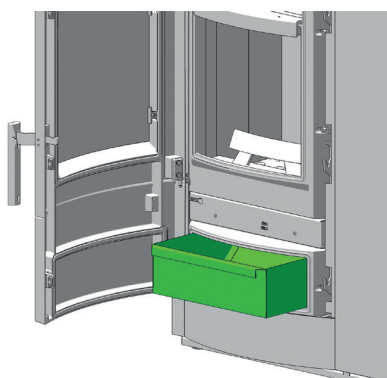
Cleaning the flame temperature sensor

Remove the dust deposits from the sensor at regular intervals. Use a clean cleaning cloth or newspaper.



Empty the ash drawer

Empty the ash drawer regularly. The ash drawer is simply pulled forward with the combustion chamber door open.



Cleaning the door glass

The viewing window becomes coated in the case of solid fuels, particularly with the very fine ash of wood pellets, light or dark depending on the pellet quality (especially with low output). The glass can be cleaned best with a moist cloth. Stubborn dirt can be removed with a special cleaner available from your stove dealer. Usual cleaners containing acid or solvents can be too harsh and damage the glass.

Cleaning painted surfaces

Wipe the painted surfaces with a damp cloth, do not scrub. Do not use solvent-containing cleaners.

14. CLEANING

Tip

Your RIKA dealer will gladly advise you about their service and maintenance offers.



Depending on pellet consumption, a message prompting cleaning of the stove appears on the display in regular intervals. This message can be acknowledged on the Touch Display, while continuing operation. Perform a cleaning cycle at the next opportunity.

Subsequently, reset the counter in the SETTINGS menu / RESETS submenu, as per operating instructions of TOUCH DISPLAY.

Tip

The message will only stop reappearing once you have reset the feed volume in the SETTINGS / Resets menu.



Note

Your stove must be switched off and cooled before any maintenance work is performed. Only work on the unit when the mains plug has been disconnected.



Cleaning the convection air openings

Vacuum clean any dust deposits from the convection air openings at regular intervals.

The stove should be cleaned thoroughly prior to the start of the heating season to prevent excess odour.

Note

To prevent your stove from overheating of the internal components, do never cover the convection fins!



Combustion air - intake

If necessary, please also clean the air intake with a Hoover.

Note

Only when the stove is cold! You could vacuum out embers – FIRE RISK!



Cleaning the pellet container

Do not refill the completely emptied container immediately; remove the residues (dust, chippings etc.) from the bottom of the container. The unit must be disconnected from the mains!

Bearings

annually

All built in bearings (pellet screw, turning grid) should be checked. Clean or replace bearings depending on condition.

Checking door seal

annually

The condition of the seals at doors and glass should be checked at least once a year. Repair or replace seals depending on condition.

Note

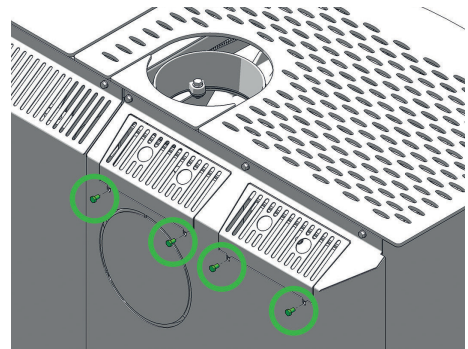
Only intact seals ensure your stove works perfectly!



Cleaning flue pipes

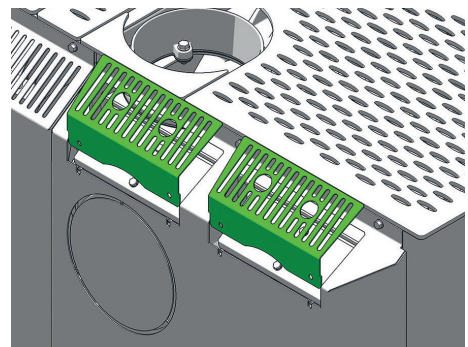
The flue pipes should be cleaned at least 2 x a year or after approx. 700 kg pellets. The flues are behind the combustion chamber.

Remove the hexagonal screws of both covers at the rear side.

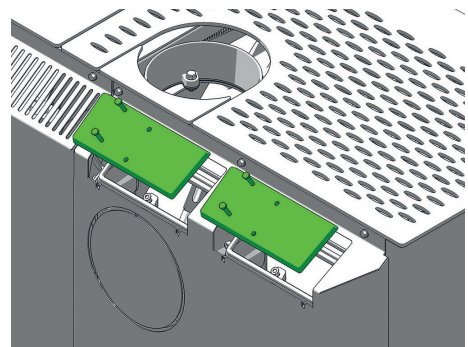


ZE

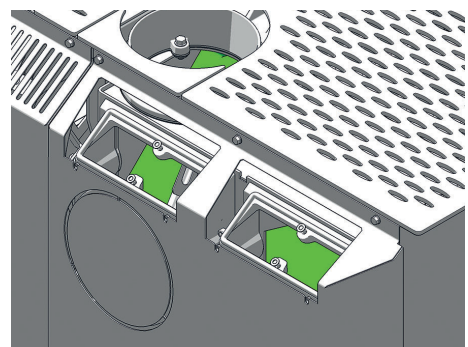
Now you can remove the covers.



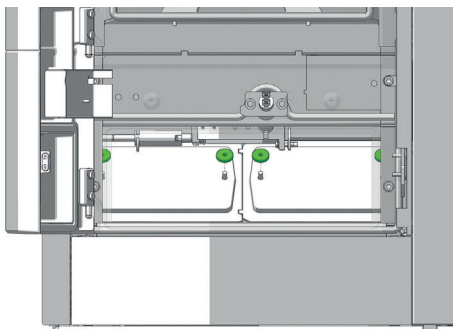
Loose the screws of the heat exchanger lids and remove them.



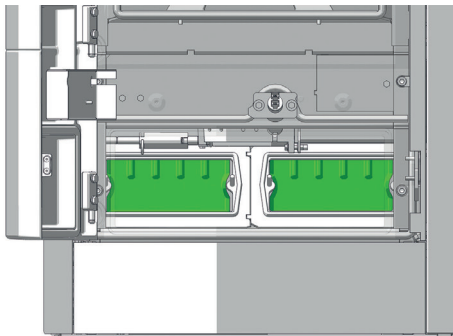
Clean the heat exchangers with the provided brush.



Dismantle the two cleaning covers behind the ash drawer by loosening the 4 milled nuts.



Vacuum out the chambers in the lower section of the flue pipes.



Also clean the impeller of the flue gas blower by vacuuming out the suction opening.

Re-assembly the parts removed in reverse order.

Note

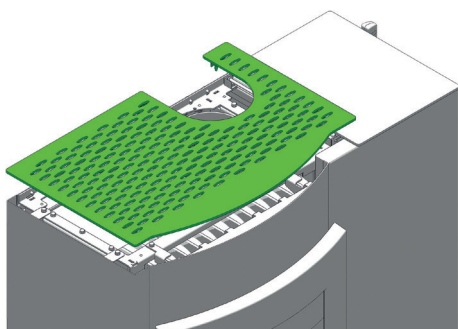
Your stove may suck in false air via incorrectly sealed cleaning covers; this air may lead to incomplete combustion in the fire trough and thus piling up of pellets. DANGER of FIRE!

To ensure the proper operation of your pellet stove, replace the defect (porous, frayed) seals after cleaning and maintenance.

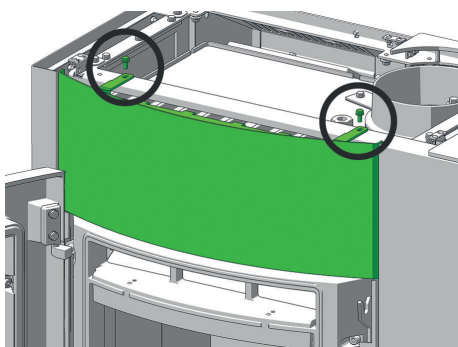


Cleaning flue gas deflector section

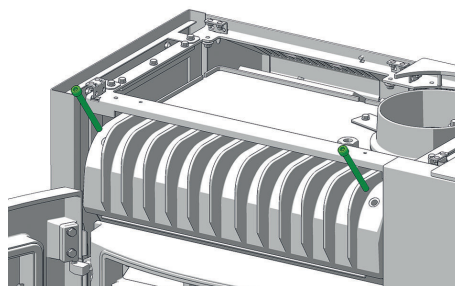
Lift the cover of the stove by carefully pressing upwards and place it on a soft, clean base.



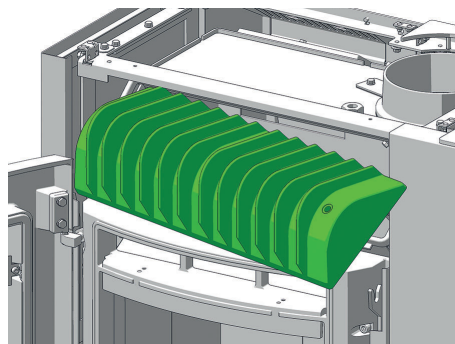
Open the fixing bolts of the top cover plate and place it on a soft, clean base.



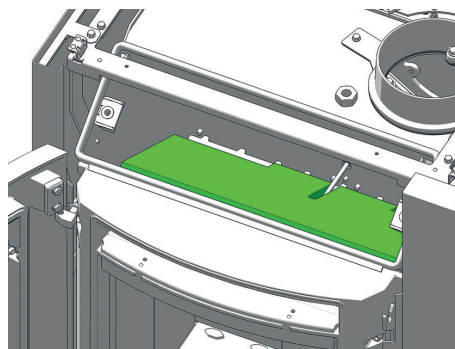
Open the fixing bolts of the cast cover.



Turn the cast cover carefully out of the frame and place it down.



Vacuum out the deflector section.



Re-assembly the parts removed in reverse order.

Note

Your stove may suck in false air via incorrectly sealed cleaning covers; this air may lead to incomplete combustion in the fire trough and thus piling up of pellets. DANGER of FIRE!

To ensure the proper operation of your pellet stove, replace the defect (porous, frayed) seals after cleaning and maintenance.



Cleaning the flue pipes

annually

Remove the flue pipes. Inspect and clean the chimney connection. Brush off any soot and dust deposits in the fire and in the flue pipes and vacuum.

Note

Accumulated fly ash in the flue gas channels may impair the performance of the stove and pose a safety risk.



15. PROBLEMS - POSSIBLE SOLUTIONS

Problem 1

Fire burns with weak, orange flame. Pellets heap up in fire trough, window sooted up.

Cause(s) pellet operation

- Insufficient combustion air
- Poor chimney draught
- Stove is sooted over inside

Cause(s) log operation

- Poor chimney draught
- Too much fuel
- Damp wood
- Incorrect heating up
- Stove is sooted over inside

Possible solutions pellet operation

- Remove any ash or clinker from the fire trough that may block the air inlets. If possible swap to better pellet quality (see CLEANING and MAINTENANCE).
- Check whether flue gas pipes are blocked with ash (see CLEANING and MAINTENANCE).
- Check whether the suction nozzles and air inlet pipe or flue tube are blocked.
- Check door and cleaning cover seals for leaks (see CLEANING and MAINTENANCE).
- Clean blower impeller (see CLEANING and MAINTENANCE).
- Have service performed by authorised specialist company.
- Every glass plate must be cleaned from time to time (depending on use) with glass cleaner.

Possible solutions log operation

- Use dry wood and correct fuel amounts (see BRIEF INFORMATION ON FUEL - LOGS)

Problem 2

Stove smells strongly and / or fumes are emitted

Cause(s) pellet / log operation

- Burning-in phase (taking into service)
- Stove has accumulated dust and/or dirt

Possible solutions pellet / log operation

- Wait to end of burning-in phase and vent sufficiently
- Suction off any dust deposits from the convection air openings at regular intervals

Problem 3

Flue gas discharge when wood is added and during heating phase.

Cause(s) pellet / log operation

- Flue gas flap is not open for refueling
- Combustion chamber door opened too fast
- Too much ash in combustion chamber
- Adding logs to snappy
- Chimney draught too low
- Flue pipe connection leaks
- Logs combustion still running (visible flame)
- Inspection openings leak

Possible solutions pellet / log operation

- Open the flue gas flap for refueling
- open the combustion chamber door moderate
- regular cleaning of combustion chamber (vacuum)
- Adding logs carefully
- Check chimney
- Check connections and if necessary re-seal
- Add logs after flame is gone (display: „please add logs“)
- Check seals and replace (fire door, plaster cover, ..)

Note

Please note that checks on the control system and wiring may only be performed in unit switched dead. Any repairs may only be performed by trained specialists.

Tip

If a malfunction message occurs, the cause must first be remedied; the unit can be put back into operation by acknowledging the malfunction at the touch display.

16. INSTRUCTIONS FOR COMMISSIONING PROTOCOL

FOR PELLET AND COMBI STOVES

The commissioning protocol is to be treated as a documents and serves as the basis for the warranty and guarantee terms. It is to be completed entirely, in particular the stove data and addresses, the work to be performed is to be ticked off after completion. The signatories confirm with their signatures that all the items on the list have been concluded properly.

Note

Please return 1 completed protocol for putting into service to RIKA Innovative Ofentechnik GmbH, Müllerviertel 20, 4563 Micheldorf, Austria.



Electrical periphery

It is important that the connection socket in the electrical periphery is earthed. The operability of any room thermostat present must be checked. The execution of commands is to be established by phoning in the case of a GSM modem.

Exhaust gas system

The exhaust line, stove and combustion air inlet are part of the combustion system as a whole; therefore the correct execution must also be checked. The plug connections should be tight in general since the system works with excess pressure. The exhaust tube has a diameter of 100 mm for pellet stove, and of 130 mm / 150 mm for the combi stove, which is sufficient for short distances. In the case of several changes in direction, the resistance of the exhaust system can increase with the flue to such an extent that the combustion quality suffers and/or noise arises from the greater flow speed. Correct determination of the chimney draught can only be performed at nominal thermal output and serves to evaluate the chimney. If the draught is more than 15 Pa, then a draught limiter should be installed.

Stove functions

These are the basic stove functions that are to be checked and ticked off. The stove is ready for operation if these functions are ensured.

Operator instruction

This is one of the most important points in the putting into operation. It is very important that the operator understands the stove properly and is prepared to assume responsibility for the basic tasks required for operational safety.

In particular the connection between special features of a biomass heating system and his obligations as well as the warranty and guarantee terms must be explained. e.g. non-tested pellets and screw blockers, lack of cleaning or maintenance and stove malfunctions. Thorough instruction can prevent many complaints.

Stove functions

Explanation of the processes in the stove during ignition, normal operation, cleaning phase etc.

Control

Explain operator's possibilities to intervene, empty pellet container, room thermostat, GSM modem, functions and settings, program times if necessary. Operating instructions: Handover and reference to the content to the following points, is a document.

Warranty terms

Difference between warranty (statutory) and guarantee (voluntary), terms of guarantee, determination of wearing parts, reference to pellet quality to be used and the consequences of poor quality.

Cleaning instructions

Ash and dust occurs with a biomass heating unit. The fire trough is to be cleaned regularly with regular heating operation (in the case of pellet operation, the drilled air holes in particular must be free of residues). The ash drawer is to be emptied regularly. The flue gas pipes are to be cleaned once or twice in the heating season depending on stove type; by a specialist company is best.

Maintenance

Note

We recommend at least once a year to have all maintenance carried out by your RIKA dealer.



Combustion

All doors must close tightly to prevent intake of false air.

Installation address

Surname, forename

Street, number

Post-code, city

E-mail, phone

RIKA retailer

Retailer stamp

Device data

Device type

Serial number

Cladding undamaged? ☐ YES ☐ NO

Software version

Display version

Year of production

Electrical peripherals

Connection socket grounded ☐

Room thermostat ☐ Model

FIRENET ☐ Model

GSM modem ☐ Function checked ☐

Phone provider

Inspection of system and safety components

Smooth operation of flues gas flap checked (combi stove) ☐

Smooth operation of backfire safety flap checked (combi stove) ☐

Differential pressure sensor (building) ☐ YES ☐ NO

Fire alarm in place? ☐ YES ☐ NO

Fire-proof floor covering in place? ☐ YES ☐ NO

Other

Installation

Proper installation according to installation and user manuals ☐ YES ☐ NO

Comments

Room height

Room ventilation ☐ YES ☐ NO

Exhaust hood (outdoor connection) ☐ YES ☐ NO

WC extraction ☐ YES ☐ NO

Central vacuum cleaning system ☐ YES ☐ NO

ATTENTION:
Compliance with national regulations and laws as well as locally applicable rules and regulations is within the responsibility of the specialist contractor commissioned with installation.

Flue gas line/chimney

Chimney type ☐ BRICKS ☐ STAINLESS STEEL ☐ FIRECLAY

Chimney diameter Chimney height

Chimney – approved by inspection authority? ☐ YES ☐ NO

Chimney system ☐ INDOOR ☐ OUTDOOR

Above sea level

Number of deflector plates Length of smoke pipes

Smoke pipes in connection system ☐ WITH ☐ WITHOUT SEALING LIP

Plaster openings ☐ YES ☐ NO

Chimney draft (full load) Outside temperature

Independently of room air ☐ YES ☐ NO

Device functions

Relay testing (component testing) ☐

Door/bricks/cladding checked and adjusted(function/gaps) ☐

Initial user instruction

Pellet quality explained (env. standard/DIN plus/ENplus-A1) ☐

Device function/control explained ☐

Cleaning & maintenance interval, maintenance checklist explained ☐

Maintenance contract ☐ YES ☐ NO

Guarantee conditions described ☐

Warranty conditions explained ☐

Soot brush ☐ Door opener ☐ Thermal gloves ☐

Care and maintenance log ☐ available and handed over to the user

Pictures made of ACTUAL condition ☐

User manual, warning and safety information explained ☐

Stove taken into operation with the client ☐

Stove switched off and handed over ☐

RIKA Innovative Ofentechnik, 4563 Micheldorf, Müllerviertel 20, Austria, hereby confirms that the provided personal data is exclusively used for in-house purposes, processing and recording. The client confirms the reception of correct and clear instructions. Our general terms and conditions shall apply.

☐ I consent to the collection, saving and use of my personal data (name, address, e-mail) by RIKA Innovative Ofentechnik GmbH for marketing and information purposes. This consent can be withdrawn at any time and without any charge and formless under marketing@rika.at.

User signature

Place, date

Signature & stamp of commissioning technician

ORIGINAL - REMAINS WITH CLIENT

17. GUARANTEE CONDITIONS

We recommend having the installation performed by a RIKA-certified technician.

These guarantee conditions only apply for the European mainland. For all other countries, the separate conditions of the importer in the respective country apply. In cases of doubt, or in the case of missing or incorrect translations, the German version is always the sole valid version.

In the interest of ensuring damage limitation in good time, the guarantee claim should be sent in writing to the RIKA specialist or contract dealer.

In this event, the following documents must be presented:

- Written reason for complaint
- Invoice
- Commissioning record
- Model name and serial number

RIKA GUARANTEE

5 YEARS

on the welded stove body.

Up to 5 years or 10,000 kg of consumed pellets for pellet stoves.

The RIKA guarantee is a commercial or manufacturer's guarantee (subject to certain exceptions).

This relates exclusively to defects in the material and processing, and to the supply of replacement parts free of charge. Working hours and travel times are not covered by the manufacturer's guarantee.

The guarantee is conditional on the following:

- Only original parts supplied by the manufacturer must be used.
- Professional installation of the stove in compliance with the respective operating manual valid at the time of purchase.
- The stove must be connected by a professional certified for that type of stove.
- The commissioning is performed by a RIKA-certified technician.

If these points are not complied with, the guarantee claim is void!

Any costs incurred by the manufacturer as a result of an unjustified guarantee claim will be charged back to the claimant. Likewise excluded from the guarantee is any damage resulting from or caused by non-compliance with the manufacturer's instructions for operating the appliance, e.g. overheating, use of non-approved fuels, unprofessional interference with the appliance or the flue pipe, a flue suction that is incorrectly adjusted to the appliance or is insufficient or too strong, condensation water, non-performance of or inadequate maintenance or cleaning, non-compliance with the applicable building regulations, improper operation by the operator or third parties, transport and handling damage.

STATUTORY WARRANTY PROVISIONS REMAIN UNAFFECTED BY THE GUARANTEE!

18. WARRANTY CONDITIONS

As a consumer, you are entitled to the warranty, which covers any defects at the time of delivery. The warranty is two (2) years from the date of delivery of the stove.

See the respective general terms and conditions of business and warranty conditions of the RIKA dealer.

The warranty does not cover:

1. Wearing parts (normal wear and tear not resulting from a defect)
2. Parts in contact with fire, e.g. glass, combustion troughs, grates, baffle plates, deflectors, combustion chamber cladding (e.g. refractory clay), ceramics, ignition elements, sensors, combustion chamber sensors and temperature monitors
3. Paint, surface coatings (e.g. handles, cover panels)
4. Seals
5. Natural stone, thermal stone, etc.

valid from: 01.07.2023

19. DISPOSAL INFORMATION

RIKA Innovative Ofentechnik GmbH is ensuring that its products are eco-friendly throughout the product life cycle. This is why our commitment for electronic products goes beyond the end of their product life cycle.

Note

For proper disposal of the device, we recommend contacting a local waste disposal company.

Note

Please contact your RIKA specialist dealer for professional disassembly/dismantling of the device.

Note

We recommend that you remove the parts that come into contact with the fire, such as glass, fire trough, grates, draught plates, baffle plates, combustion chamber linings (e.g. fireclay), ceramics, ignition elements, sensors, combustion chamber sensors and temperature monitors and dispose of them in the household waste.

Information on the individual components of the device

- **Electrical or electronic components:** Remove the electrical or electronic components from the device by disassembling them. These components must not be disposed of in the residual waste. Proper disposal should be carried out via the waste electrical equipment take-back system.
- **Fireclay in the combustion chamber:** Remove fireclay components that have been installed in the combustion chamber from the appliance. If present, fastening elements must be removed beforehand. Fireclay components that come into contact with the fire or flue gas must be disposed of; reuse or recycling is not possible.
- **Vermiculite in the combustion chamber:** Remove vermiculite that has been installed in the combustion chamber from the appliance. If present, fastening elements must be removed beforehand. Vermiculite in contact with fire or flue gas must be disposed of; reuse or recycling is not possible.
- **Glass ceramic pane:** Remove the glass ceramic pane using a suitable tool. Remove the seals and separate them from the frame if present. Transparent glass ceramic can generally be recycled, but must be separated into decorated and non-decorated panes. The glass ceramic pane can be disposed of as construction waste.
- **Sheet steel:** Disassemble the sheet steel components of the device by unscrewing or flexing (alternatively by mechanical crushing). If present, remove the seals beforehand. Dispose of the sheet steel parts as metal scrap.
- **Cast iron:** Disassemble the components of the cast iron device by unscrewing or flexing (alternatively by mechanical crushing). If present, remove gaskets beforehand. Dispose of the cast parts as metal scrap.
- **Natural stone:** Remove existing natural stone mechanically from the unit and dispose of as construction waste.
- **Gaskets (glass fibre):** Remove the gaskets mechanically from the device. These components must not be disposed of with residual waste, as waste glass fibre cannot be destroyed by incineration. Dispose of gaskets as glass and ceramic fibres (artificial mineral fibres).
- **Metal handles and decorative elements:** If present, remove or dismantle metal handles and decorative elements and dispose of them as metal scrap.

Note

Please observe the local disposal possibilities for all components.

Extract from the waste code of the European Waste List Regulation

Waste code	Waste type
15 01 03	Wooden packaging
17 01 03	Tiles and ceramics
17 02 02	Glass
17 04 05	Iron and steel
17 05 04	Soil and stones

NE

Electronic Waste

In accordance with the European Directive (2012/19/EU) Waste Electrical and Electronic Equipment (WEEE) and other local regulations, RIKA supports the setup of take-back systems and recycling infrastructures.

Old devices can easily be returned to the municipal waste collectors for recycling purposes. Please observe the national regulations to that end.



The device may not be disposed of in the normal household waste.

20. COMPLIANCE WITH EU REGULATIONS



This product complies with the requirements of the European Community.

Hereby, RIKA Innovative Ofentechnik GmbH declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/30/EU, 2014/35/EU, 2014/65/EU and 2011/185/EU.

The most recent and valid version of the DoC (Declaration of Conformity) can be viewed at www.rika.at



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In case of doubt as well as missing or incorrect translations, the German version is the only valid one. Subject to technical and visual changes as well as layout and printing errors.

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