

# TOPOII/XL



## *Operating Manual*



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## 1. PREFACE

### *Explanations to symbols*



...Important  
note



...Hex #8



...Allen key #6



...Scrawl with  
copper paste



...Useful  
tip

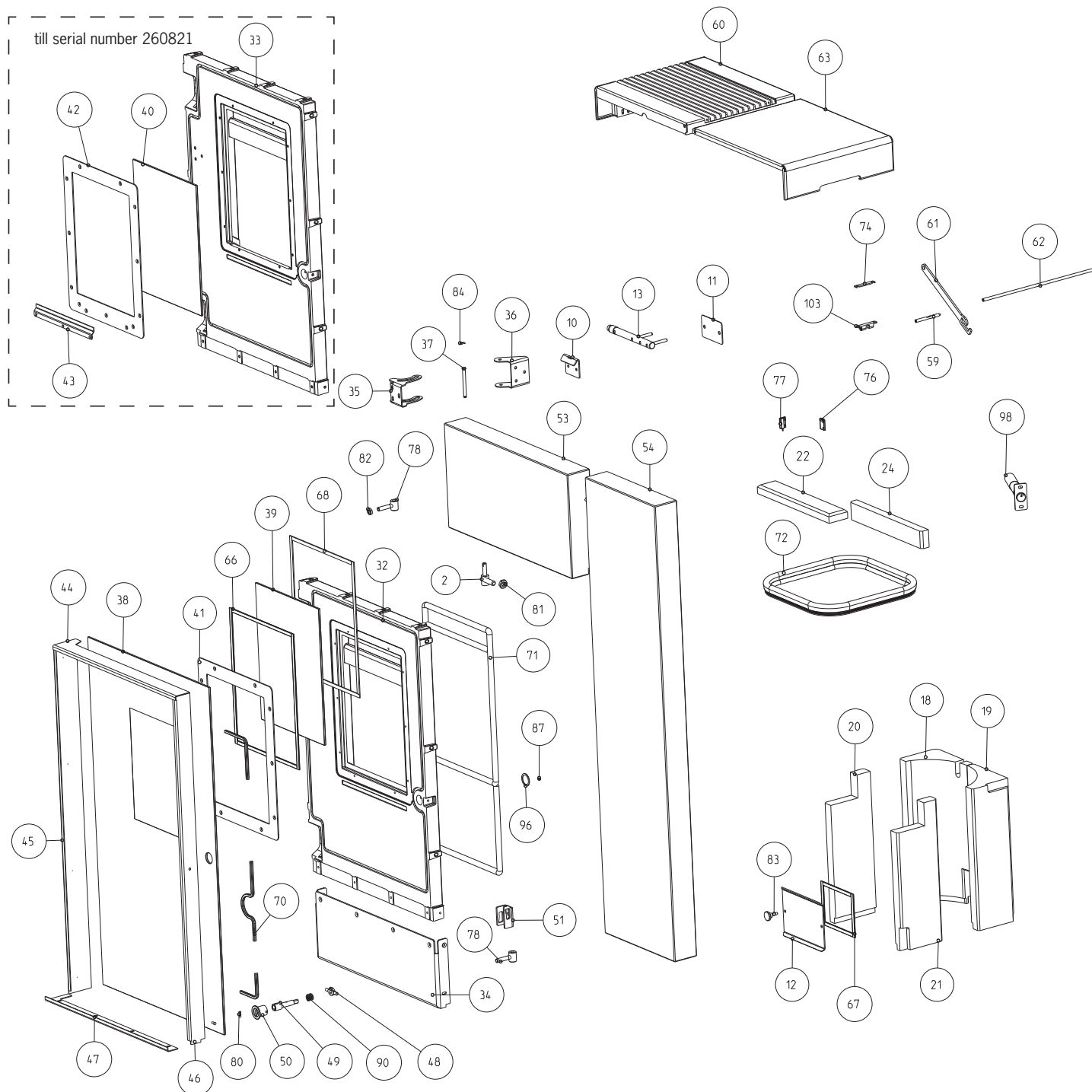


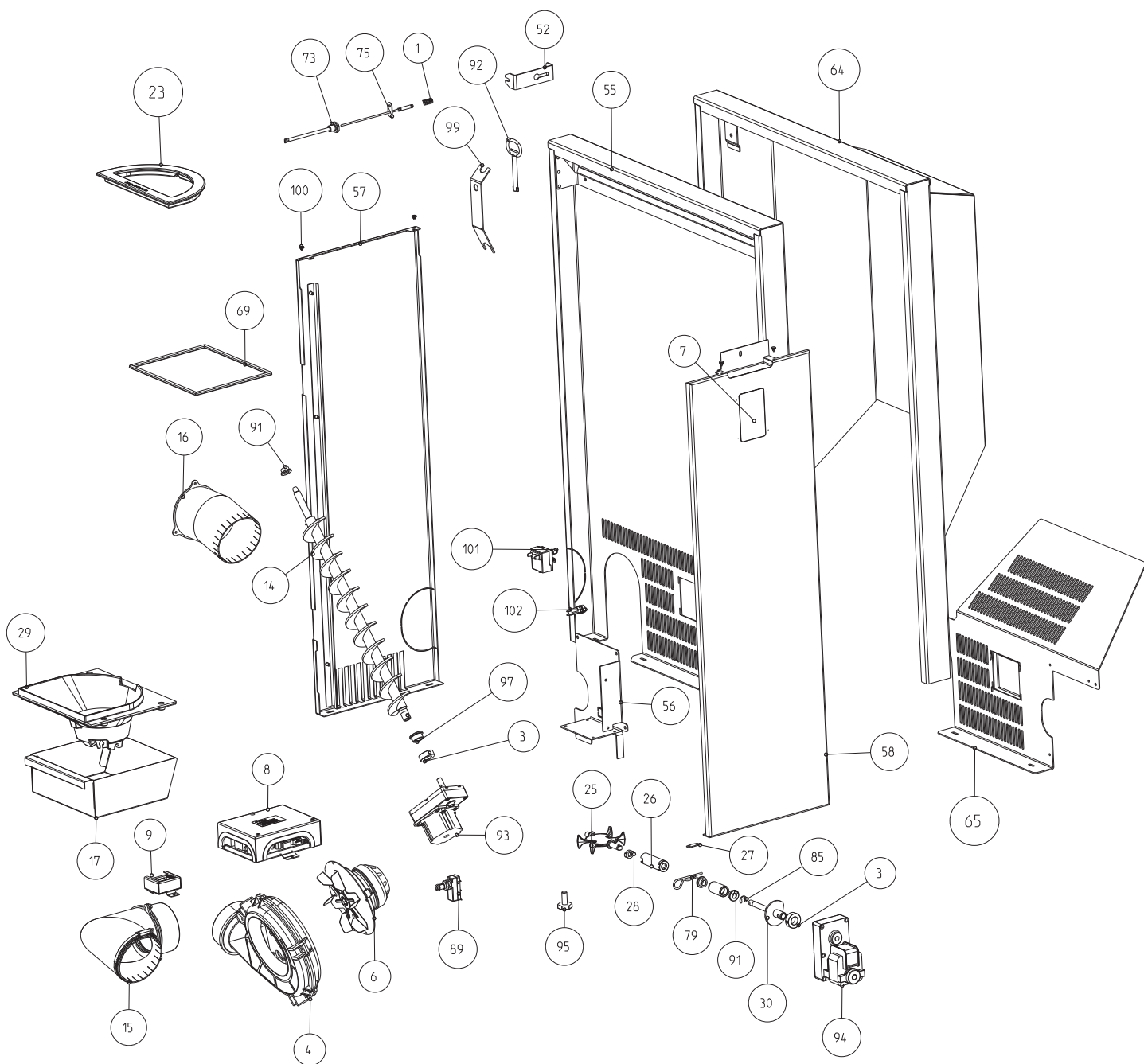
...Hex #10



...Manually

## *Spare part overview exploded diagram*





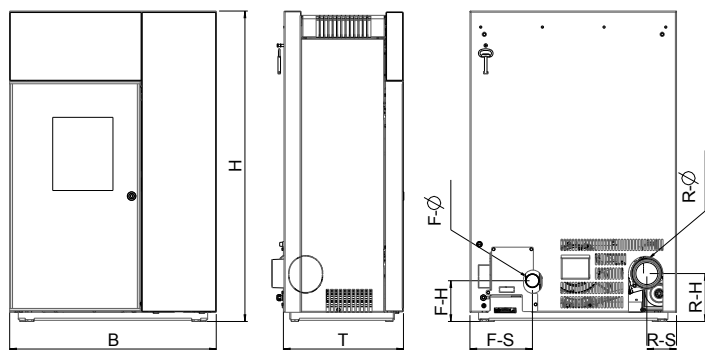
## Spare part overview article numbers

Nr.	Art.Nr.	Description
1	N108131	Pressure spring
2	B15825	Hinge BA1
3	Z11915	Lock ring conveyer screw
4	B16155	Induced draft fan housing
	B15913	Induced draft fan assy
6	N111581	Induced draft fan motor
7	B16521	Key display
7	B16574	Touch-display plug-in
8	B15856	Motherboard C2 (key display)
8	B16561	Mainboard USB11
9	B16030	Additional motherboard for motor, incl. cable
10	L01598	Stone retaining bracket
11	L01752	Support stone bracket
12	B16302	Cleaning opening
13	B16265	Stone retainer
14	B16183	Auger
15	B16172	Connecting bend assy
16	E14755	Connecting bend for flue outlet side
17	L01611	Ash tray
18	Z35178	Inner lining, rear left
19	Z35179	Inner lining, rear right
20	Z35180	Inner lining, front left
21	Z35181	Inner lining, front right
22	Z34787	Inner lining, top front
23 *3	Z34437	Baffle plate
	Z36296	Baffle plate top left
24	Z34788	Inner lining, top rear
25	Z33687	Turning Grid
26	Z33924	Intermediate shaft dumping grate
27	L01581	Retaining plate
28	L01875	Driving plate dumping grate
29	Z33921	Fire trough
30	B16175	Drive shaft
	B16178	Combustion chamber door assy
32	Z33695	Combustion chamber door
33	Z34123	Combustion chamber door (till serial no. 260 821)
34	Z33943	Door bracket, bottom
35	Z33948	Door stop 1
36	Z33941	Door stop 2
37	Z33934	Stop bolt
38	Z33697	Decorative glass
39	Z34316	Door glass
40	Z34327	Door glass (till serial no. 260 821)
41	Z34318	Glass retaining frame
43	Z34329	Glass retaining frame (from serial no. 260 821)
44	Z33945	Glass retainer, top
45	Z33946	Glass retainer, left
46	Z33947	Glass retainer, right
47	Z33944	Glass retainer, bottom
48	L01606	Locking latch
49	Z33931	Locking bolt
50	Z33932	Glass insert
51	Z33976	Locking piece
52	L01648	Pressure bracket
53	Z33957	Soapstone casing, top
	Z34399	Sandstone casing, top
	Z34401	Shale, top, dark
	Z34215	top stone white
54	Z33958	Soapstone casing, right
	Z34400	Sandstone casing, right
	Z34402	Shale, right, dark
	B16301	Soapstone casing, right (till serial no. 254 124)
	Z34216	Right stone white
55	LB00491	Rear panel assy black
56	L01920	Cover rear panel

Nr.	Art.Nr.	Description
57	Z33950	Side casing panel, left
58	B16180	Side casing panel, right, key display
58	B16883	Side casing panel, right for touch-display
59	Z33936	Cover axis (Convection cover)
60	B16189	Convection cover
61	L01631	Cover securing mechanism
62	Z33935	Cover axis (Container cover)
63	B16186	Container cover
64	LB00517	Rear panel assy for Topo XL
65	LB00518	Rear panel cover for Topo XL
66	N111828	Flat sealing strip 6x2, self-adhesive
67	N103693	Flat seal black 8x2
68	N103693	Flat seal black 8x2
69	N103066	Round sealing strip black D06
70	N111631	Round sealing cord grey D06
71	N100485	Round sealing strip black D12
72	N111731	Container seal
73	B16053	Sensor tube
74	L01446	Lock washer
75	B16114	Temperature sensor
76	N111732	Magnetic switch top part
77	N111733	Magnetic switch bottom part
78	B15396	Hinge
79	N112470	Spring clip
80	N110447	Headless screw (catch limiter)
81	N100483	Hexagonal nut M10
82	N106283	Hexagonal nut M8
83	N111743	Knurled screw
84	N103981	Circlips D05
85	N104718	Circlips D08
87	N102434	Grub screw
89	N111825	Contact switch
90	N108131	Pressure spring
91	Z35183	Friction bearing Di10
92	N112017	Key
93	N112030	Screw motor, stepless
94	N111751	Turning grid motor
95	N112490	Levelling screw black
96	N111781	Sealing ring (Glass insert)
97 *1	Z35182	Friction bearing Di16
98 *2	B17646	Ceramic ignition
	N111604	Fuse 2,5 A
99	L01751	Foot adjusting key for levelling screw
100	Z34424	Rubber buffer
101	N111586	Safety temperature limiter
102	N107887	Fuse holder
103	N110461	Double ball catch
	B16202	Wiring harness Topo key display
	B16948	Wiring harness Topo II touch-screen
	Z35018	Cable for touch-screen 1,25 m
	Z35296	Heat exchanger 1 (till serial number 307 998)
	L01787	Motor plate
	B16173	Turning grid motor assy
	B16305	Heat exchanger cover
	B16458	Turning grid connection assy
	Z33136	Cable for Key display
	Z34841	Cable for additional motherboard
	E15473	Sealing kit
	*1	up to serial number 1331613 the motor plate (L01787) must be supplied as a spare part when replacing the plastic bearing Di16 (Z35182).
	*2	requires 2,5A fuse (N111604) till serial number 267183
	*3	Z34787 + Z34788 must be ordered as a spare part when replacing the baffle plate Z34437

Note: Please consider the powdercoated parts can differ slightly in colour and colour effects though they are elaborated in high quality.

## Dimensions



Dimensions		Topo	Topo XL
Height	[mm]	1082	1082
Width	[mm]	720	720
Corpus depth	[mm]	418	596
Weight		Topo	Topo XL
Weight without shell	[kg]	166	168
Weight with shell	[kg]	230	232
Flue pipe connection		Topo	Topo XL
R - Ø flue pipe outlet	[mm]	100	100
RO - H original angle pipe connection height	[cm]	-	-
RO - T1 original angle pipe total depth	[cm]	-	-
RO - T2 original angle pipe distance to rear wall	[cm]	-	-
RO - S original angle pipe side distance	[cm]	-	-
R - H rear connection height	[cm]	17	17
R - S rear connection side distance	[cm]	10	10
Fresh air connection		Topo	Topo XL
F - Ø diameter	[mm]	50	50
F - H connection height	[cm]	14	14
F - S side distance	[cm]	22	22
Convection air connection		Topo	Topo XL
K - Ø diameter	[mm]	-	-
K - H connection height	[cm]	-	-
K - S side distance	[cm]	-	-

## Amount of fuel

Burn time at full pellet hopper	Topo (45kg)	TopoXL (82kg)
Nominal load	ca. 24h*	ca. 35h*
Part load	ca. 47h*	ca. 70h*

\*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.

## Technical Data

Technical data		Topo	Topo XL
Heating power range	[kW]	3 - 10	3 - 10
Room heating capacity (depending on house insulation)	[m³]	70 - 260	70 - 260
Fuel consumption	[kg/h]	bis 2,4	bis 2,4
Pellet container capacity*	[l/kg]	70/~45	126/~82
Electric supply	[V]/[Hz]	230/50	230/50
Average electrical input	[W]	~ 20	~ 20
Fuse	[A]	2,5 AT	2,5 AT
Efficiency	[%]	91	91
CO2	[%]	11,6	11,6
CO-emission on 13% O2	[mg/m <sub>N</sub> ³]	32	32
Dust emission	[mg/m <sub>N</sub> ³]	12	12
Exhaust	[g/s]	6,1	6,1
Exhaust temperature	[°C]	156	156
Chimney draft requirement	[Pa]	3	3

\*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.

## 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 230V/50Hz socket. The average electrical power consumption is some 20 Watt in heating operation. And approx. 270 Watt during automatic ignition. The connection cable must be laid in that way that there is no contact to any sharp edges or hot surfaces of the stove.

## 2. 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.
- 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.
- Placing non-heat resistant objects on the stove or near it is prohibited.
- Do not place clothing on the stove to dry.
- Stands for drying clothes 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.
- Pellet stoves are generally designed and developed to operate as an additional heat source (supplementary heating). The cleaning, as well as the information about the wear are set accordingly in our manual. 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**  
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.

#### Note

CAUTION when filling the supply container.  
The pellet container opening is sufficient to ensure easy filling. Take great care that no pellets drop onto the convection fins and the hot stove body. This may lead to heavy smoke development.

#### Tip

We therefore recommend refilling the supply container when the stove is cold.

### Safety distances *Topo* (minimal distance)

#### Note

1. To non-combustible objects  
 $a > 40\text{cm}$   $b > 10\text{cm}$
2. To combustible objects and reinforced concrete load-bearing walls  
 $a > 80\text{cm}$   $b > 15\text{cm}$

#### Tip

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

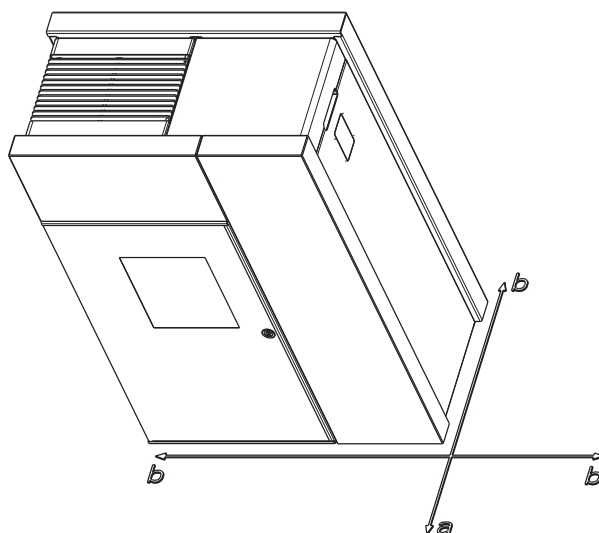
### Safety distances *TopoXL* (minimal distance)

#### Note

1. To non-combustible objects  
 $a > 40\text{cm}$   $b > 10\text{cm}$
2. To combustible objects and reinforced concrete load-bearing walls  
 $a > 80\text{cm}$   $b > 15\text{cm}$

#### Tip

You can put the TopoXL directly to the wall. But for service and maintenance we recommend a minimum distance of 10cm behind the furnace in order to dismantle the rear panel without allowing the machine to move. (lower maintenance and service costs)



## 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

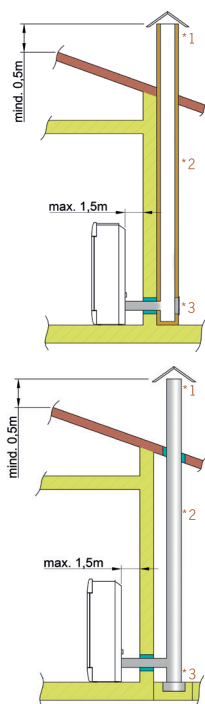
A base is required (glass, sheet steel or ceramic) if the floor is combustible (wood, carpet, etc.).

### 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.
- 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.
- Use the heat-resistant gloves supplied to open the doors of your stove.

## The correct chimney connection

There are several ways to connect your stove to the chimney, eg:



1) wind break, 2) chimney, 3) inspection opening

For the selection of the connection and to ensure a proper connection between the stove and chimney, please read the guide „INSTALLING THE STOVE“ or ask your local chimney sweep.

### Stoves type 1 (BA 1):

- Suitable for multiple occupancy. (Note the different country regulations)
- These may only be operated with the combustion chamber door closed.
- 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.
- If this occurs, disconnect the mains plug. Phone the fire brigade and get yourself and other residents out of harm's way.

#### Note

Your pellet stove can be operated room air dependent or room air independent. ROOM-AIR INDEPENDENT OPERATION:

The stove is certificated for type FC62x of the approval principles for the inspection and evaluation of ambient air independent fireplaces specified by the Deutsches Institut für Bautechnik (DIBT) (German Institute for Building Technology). Thanks to the air-tight configuration of the air supply line and flue pipes the stove may be operated in air-tight rooms and in rooms with room-air installations (e.g. controlled ventilation and venting systems, extractors etc.).

#### ROOM-AIR DEPENDENT OPERATION:

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). The combustion air infeed of approx. 20 m<sup>3</sup>/h must be ensured.

Please observe the respective local regulations and rules in consultation with your master chimney sweep.

### 3. 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) <sup>2)</sup>
Length	mm	3,15–40 <sup>3)</sup>
Buld density	kg/m <sup>3</sup>	≥ 600
Calorific value	MJ/kg	≥ 16,5
Water content	Ma.-%	≤ 10
Fine fraction (< 3,15 mm)	Ma.-%	≤ 1
Mechanical rigidity	Ma.-%	≥ 97,5 <sup>4)</sup>
Ash content	Ma.-% <sup>1)</sup>	≤ 0,7
Ash softening temperature	(DT) °C	≥ 1200
Chlorine content	Ma.-% <sup>1)</sup>	≤ 0,02
Sulphur content	Ma.-% <sup>1)</sup>	≤ 0,03
Nitrogen content	Ma.-% <sup>1)</sup>	≤ 0,3
Copper content	mg/kg <sup>1)</sup>	≤ 10
Chrome content	mg/kg <sup>1)</sup>	≤ 10
Arsenic content	mg/kg <sup>1)</sup>	≤ 1
Cadmium content	mg/kg <sup>1)</sup>	≤ 0,5
Mercury content	mg/kg <sup>1)</sup>	≤ 0,1
Lead content	mg/kg <sup>1)</sup>	≤ 10
Nickel content	mg/kg <sup>1)</sup>	≤ 10
Zinc content	mg/kg <sup>1)</sup>	≤ 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 ≥ 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 (see operating instruction TOUCH DISPLAY)

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.

## 4. 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 stove are convincing:

### Operating comfort

The microprocessor-controlled combustion regulation optimises the interaction of flue gas blower and screw using the current combustion chamber temperature. This guarantees optimum combustion and operating status.

All function can be regulated centrally using the integrated operating unit. 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.

#### **Note**

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

### 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 internal unit.

#### **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.

#### *Only for stoves with turning grids:*

Every 6 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**

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

#### **Note**

Due to the turning grid there is a certain generation of noise during the automatic cleaning cycle.

### 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: DISCHARGE MOTOR BLOCKED. The stove will be stopped. Please call the customer service immediately.

### Power failure (during heating)

After a brief power failure, the operating functions that were set before the power failure, continues. If the power failure lasts longer, the stove goes to start phase if sufficient temperature or embers are present. If the power failure lasts too long, the stove goes into the stop phase. The flue gas fan continues to burn any pellet residues (approximately 10 minutes). Then it will restart automatically.

### Power failure (during the initial stage)

After a brief power failure the boot process continues. If the power failure lasts longer, the stove is in the stop phase. The flue gas fan continues to burn any pellet residues (approximately 10 minutes). Then it will restart automatically.

## 5. INSTALLING THE STOVE

### General information

#### 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. You may need to have a condensate ring installed - ask your chimney sweeping expert for more information. 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. 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

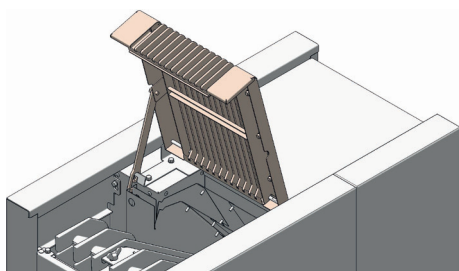
During assembly / dismantling do not allow objects (screws etc.) to fall into the pellet container – they can block the screw conveyor and damage the stove.

### Note

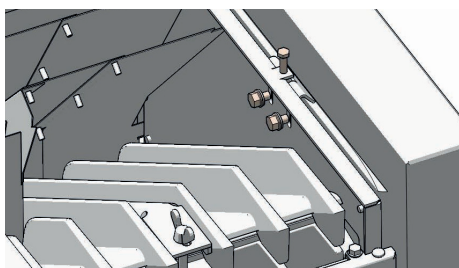
During any conversion work, take particular care of your fingers and any panels and stove attachments.  
Select soft bases to prevent scratches to your living space furniture and stove panels.

### *Dismantling stone*

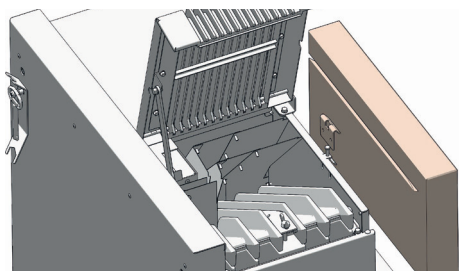
Open the convection cover so far that the cover securing mechanism locks into the designated retaining bracket.



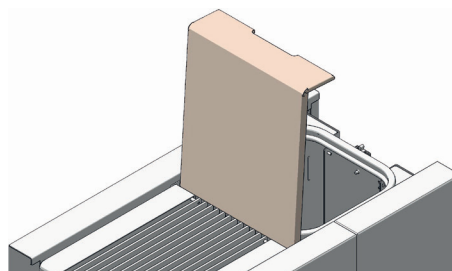
Loosen the three Allen screws, which are provided for mounting the stone bracket



You can now move the stone bracket to the top, lift the stone covering and place it on a soft surface.

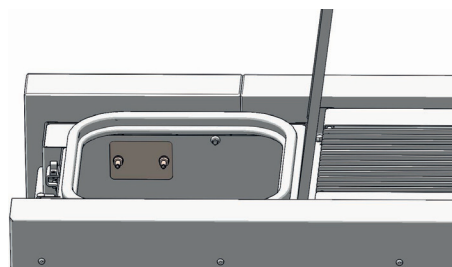


Open the container lid.

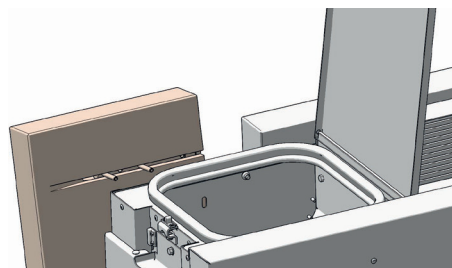


EN

Loosen the two hex nuts in the container intended for fixing the stone bracket.



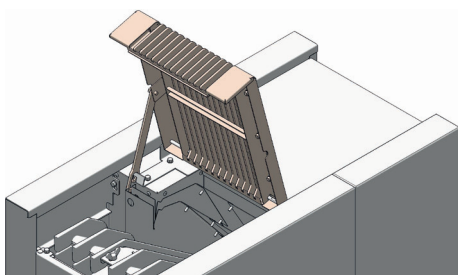
Now you can tip out the stone cladding including stone bracket and place it on a soft surface.



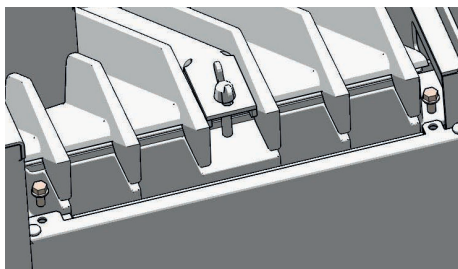
Re-assemble the parts in reverse order

## *Dismantling the left side trim*

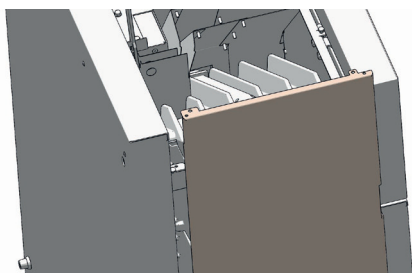
Open the convection cover so far that the cover securing mechanism locks into the designated retaining bracket.



Remove the two vertical hexagonal screws which are used to fasten the left side cover.



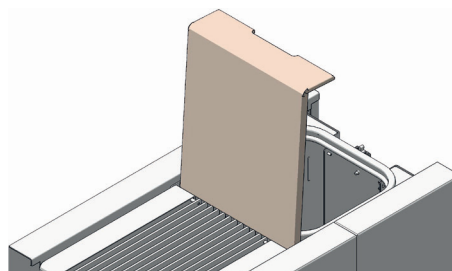
You can now lift the left side cover and place it on a soft surface.



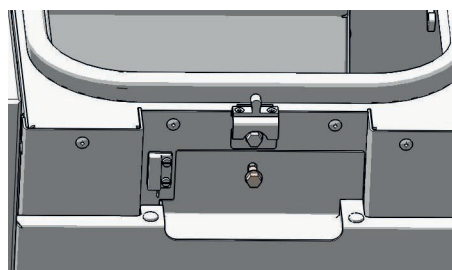
Re-assemble the parts in reverse order

## *Dismantling the right side trim*

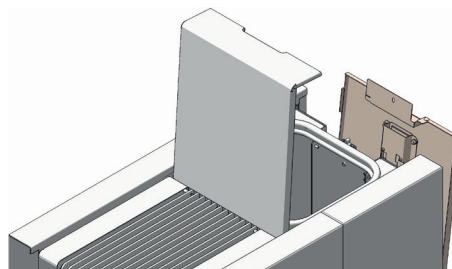
Open the container lid.



Remove the hex screw that is used to secure the side panel to the right.



You can now lift the side panel after disconnecting the internal control unit and place it on a soft surface.



Re-assemble the parts in reverse order

## 7. 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.

### *GSM Control*

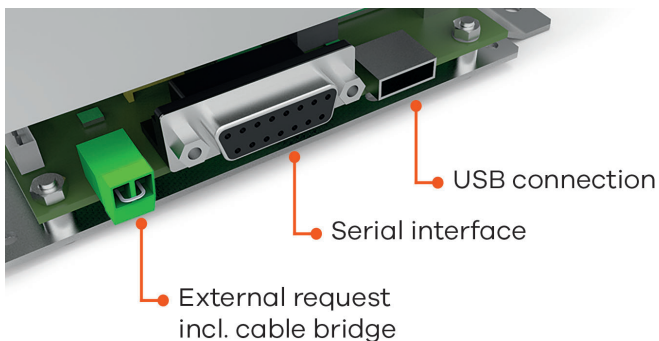
Your stove can also be controlled via a mobile phone as an additional option.

Please see the operating instructions for the telephone option – GSM for more detailed information.

### *Interface for various options*

*for various options*

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



*(condition as delivered)*

### *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 mm<sup>2</sup> 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 firenet*

*Only for combination and pellet stoves with touch panel version V2.16 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](http://www.rika.at) or from your dealer.

## 8. CLEANING AND MAINTENANCE

### Basic information

#### Note

Your stove must be switched off and cooled before any maintenance work is performed. Ensure that you do not vacuum into the combustion air line during heating operation during any cleaning (vacuuming). You could vacuum out embers – FIRE RISK!

#### Note

SERVICE appears in the display after consumption of 700 kg pellets. Cleaning and maintenance is to be performed. This message can be acknowledged by pressing ENTER and operation can be continued. The number of SERVICE messages is stored in the background.

#### Note

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

#### Note

Only work on the unit when the mains plug has been disconnected.

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 logs may be used as fuel.

#### Tip

wood as fertiliser - The mineral content of the wood remains in the combustion chamber as ash as a residue of the combustion. This is an excellent fertiliser for all plants in the garden; it is a completely natural product. The ash should be stored first and extinguished with water.

#### Note

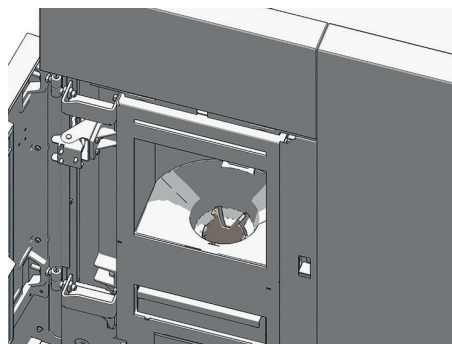
Ash may contain embers – only place ash in sheet steel containers.

### Open the combustion chamber door

To open or close the combustion chamber door use the included key. This key can also be stored on the back of the stove.

### Cleaning the fire trough

Despite the automatic ash dumping prior to and during heating operation, care should be taken that the air intake openings are not blocked with ash or clinker. Remove the clinker using the wire brush supplied and vacuum out the fire trough.



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

#### Note

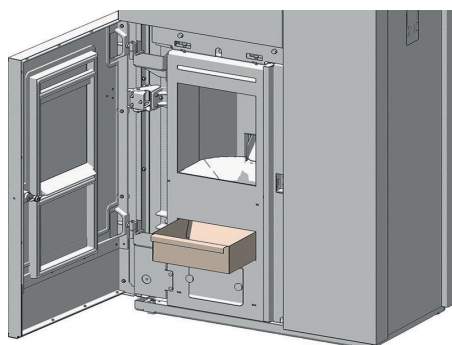
Clean the fire trough regularly. Only clean when cold, when embers are extinguished!

#### Note

If the stove is heated in continuous operation, it must be cleaned 2x within 24 hours. BACK FIRE HAZARD!

### Empty the ash drawer

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



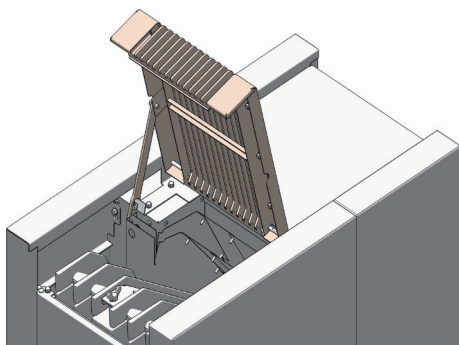
### Cleaning the door glass

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.

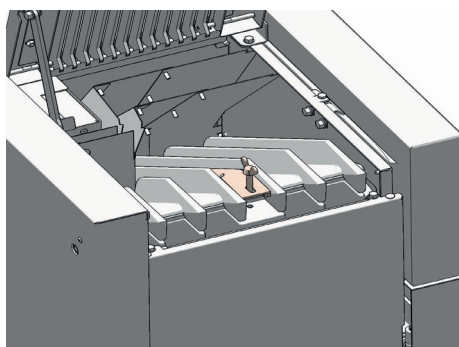
## Cleaning flue pipes

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.

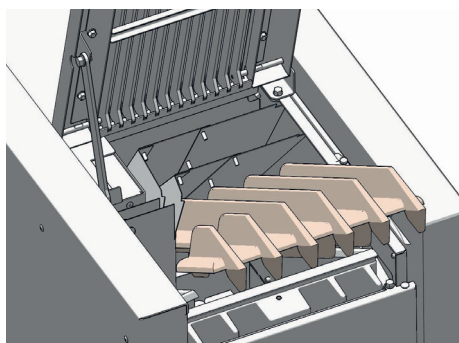
Open the convection cover so far that the cover securing mechanism locks into the designated retaining bracket.



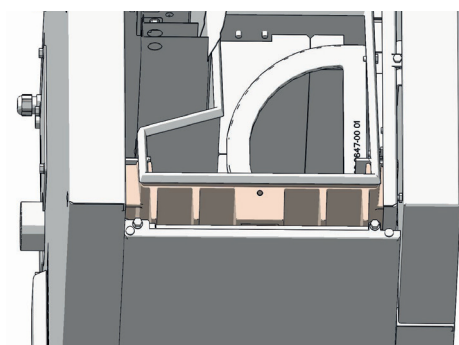
Undo the wing nut and remove the bracket that secures the cover of the heat exchanger.



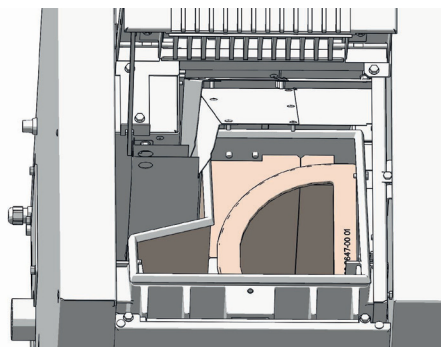
You can now lift off the heat exchanger cover and set it to one side.



Now clean the flue gas outlets on the combustion chamber side using the soot brush.



Vacuum the exposed interior space and the side apertures free of any contamination.



EN

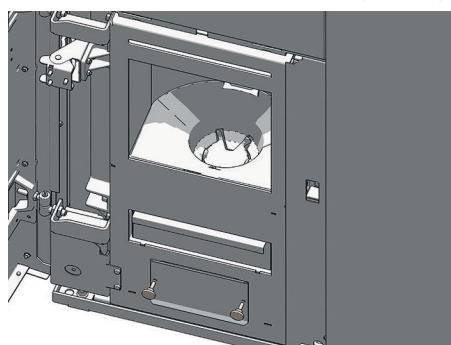
Re-assembly the parts removed in reverse order.

## Cleaning flue main duct

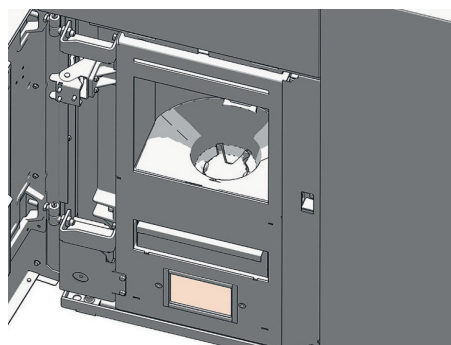
The flue main duct should be cleaned at least 2 x a year or after approx. 700 kg pellets. The flue main duct is located in the lower section of the combustion chamber.

the combustion chamber door

Undo the two knurled screws and remove the cleaning opening.



Vacuum the combustion residues from the flue gas collection duct. Vacuum also to the left rear side.



Re-assembly the parts removed in reverse order.

### Note

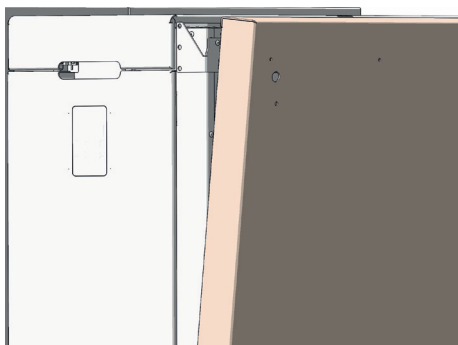
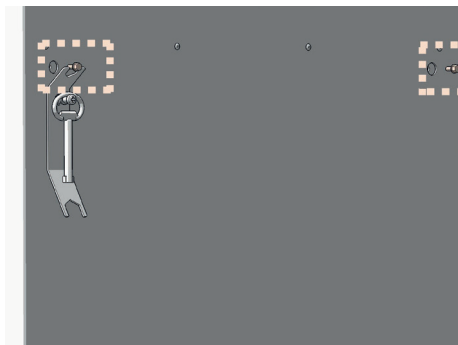
Your stove may suck in false air via incorrectly sealed cleaning covers; this air may lead to incomplete combustion in the fire trough and thus piling up of pellets. Replace defective (porous, frayed) seals after cleaning and maintenance in order to a properly function of your pellet stove forever.



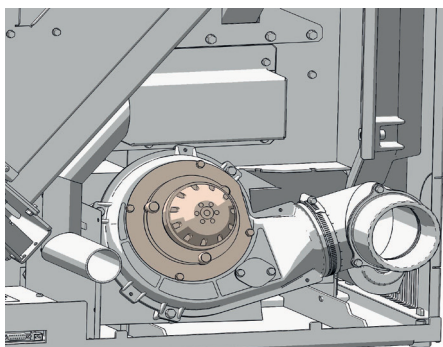
## Cleaning the flue blower casing

The flue blower should be cleaned at least 2 x a year or after approx. 700 kg pellets.

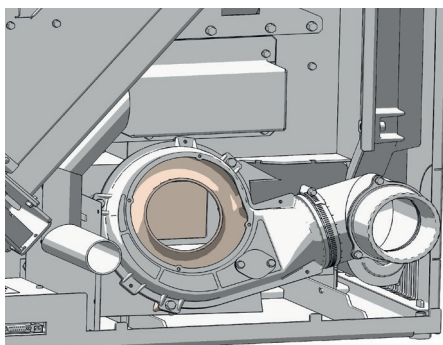
The rear panel is to be removed for inspecting and cleaning the flue gas fan  
fanCleaning the flame temperature sensor



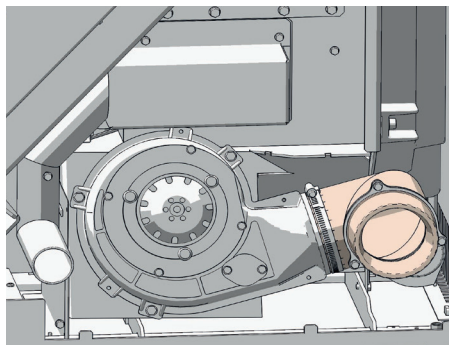
To do this undo the four hexagon bolts that secure the flue gas fan motor in place and carefully remove the flue gas fan motor from the housing.



Remove the fly ash from the blower and flue gas pipes with a vacuum cleaner. Take care that seals are correct when closing



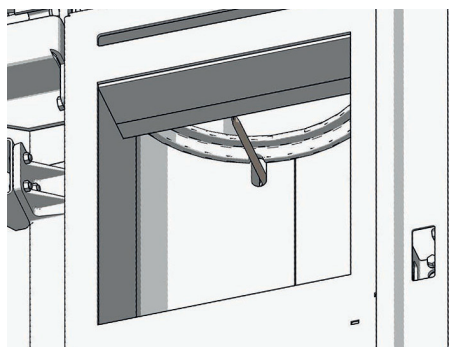
To clean the flue pipe connection disconnect the flue pipe from the flue gas fan and vacuum the flue gas fan housing



Re-assembly the parts removed in reverse order.

## Cleaning the flame temperature sensor

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



## Cleaning the pellet container

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

## Bearings

all built in bearings ( Pellet screw or turning Grid ) should be checked and cleaned according to the condition or replaced min. once per Year.

## Checking door seal

The condition of the seals at doors and glass should be checked at least 1 x per year. Repair or replace seals depending on condition.

### **Note**

Only intact seals ensure your stove works perfectly.



## Cleaning of painted surfaces

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

## Cleaning the flue gas channels

(1 x annually)

Remove the flue pipes. Inspect and clean 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.



## 9. PROBLEMS – POSSIBLE SOLUTIONS

### Problem 1

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

#### Cause(s)

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

#### Possible solutions

- Remove any ash or clinker from the fire trough that may block the air inlets. (see CLEANING and MAINTENANCE)
- If possible swap to better pellet quality.
- Check whether flue gas pipes are blocked with ash (see CLEANING and MAINTENANCE).
- Check whether the air intake or flue tubes are blocked.
- Check door and cleaning cover seals for leaks (see CLEANING and MAINTENANCE)
- Clean fan (see CLEANING and MAINTENANCE)
- Have service performed by authorised specialist company.
- The window has to be cleaned from time to time (see CLEANING and MAINTENANCE)

### Problem 2

Stove smells strongly and smokes outside.

#### Cause(s)

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

#### Possible solutions

- Wait to end of burning-in phase and vent the room sufficiently.
- Vacuum 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)

- Leaking cleaning openings
- Chimney draught too low
- Leaking flue pipe connection

#### Possible solutions

- Check seals and replace (fire door, cleaning lid, ..)
- Check chimney
- Check connections and if necessary re-seal

#### 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 internal unit.

# 10. INSTRUCTIONS FOR COMMISSIONING PROTOCOL

## FOR PELLET AND COMBI STOVES

The commissioning protocol is to be treated as a document 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 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.

**Note**

Please contact your warranty partner for any warranty questions or claims. This is your dealer or installation company. No warranty claims can be accepted without proper putting into operation, proper operation according to the operating instructions and the supplements in this information sheet.

**Protocol for putting into operation for RIKA pellet and combi stoves****Date:** \_\_\_\_\_

Installation address	Dealer
Name: _____	Name: _____
Street: _____	Street: _____
City: _____	City: _____
Telephone: _____	Telephone: _____

**Stove data**

Stove type:	Casing undamaged
Serial number:	Operating instructions
Software version:	Warranty documents
Touchdisplay version:	Door opener

**Electrical periphery**

Connection socket earthed	GSM modem present
Room thermostat present	Function checked

**Check of system components**

Combustion chamber door seal checked	Ease of movement burnback flap checked (combi)
Ease of movement flue gas flap checked (combi)	

**Exhaust line / chimney**

Diameter	Connection leakproof
Bends	Chimney draught

**Stove functions**

Pellet container filled	Grid turns (360°) und keeps in heating position
Tested pellet quality according to Önorm/DIN plus/ENplus-A1	Ignition element glows
Electrical connections made	Screw motors run
Safety flaps tightened (combi)	Do pellets fall into the combustion chamber?
Induced draught blower runs	Ignition performed
Stove was switched off when handed over	

**Operator instruction**

Stove function	Warranty terms
Control	Cleaning
Operating instructions	Cleaning or maintenance interval

*work performed correctly according to order placed*


Signature Client / Operator

Signature Technican / Company

## 11. WARRANTY

These warranty conditions are only valid for the following countries: Austria, Germany and Switzerland. Separate conditions imposed by the importer apply for all other countries. In case of doubt as well as missing or incorrect translations, the German version is the only valid one.

For the purpose of timely damage limitation the claimant is required to file the warranty claim with the RIKA dealer in writing, submitting the invoice and stating the purchase date, model name, serial number and reason for complaint.

### Warranty

5 years on the welded stove body. This exclusively applies to defects in materials and workmanship as well as free replacement. Labour and travel times are not included in the manufacturer's warranty.

Only original parts supplied by the manufacturer should be used. Loss of warranty on non-observance!

The precondition for the warranty is that the stove has been installed and commissioned properly according to the User and installation manuals valid at the time of purchase. Connection must be performed by a specialist for such stoves.

Any costs incurred by the manufacturer due to unjustified warranty claims are to be charged to the claimant.

**Wear parts and parts affected by fire are excluded, such as glass, coating, surface coatings (e.g. handles, panels), seals, fire trough, grates, draught plates, deflector plates, combustion chamber liners (e.g. fireclay), ceramics, natural stone, thermo stone, ignition elements, sensors, combustion chamber sensors and temperature controller.**

Also excluded from this warranty are all damages arising from non-observance of the manufacturer's operating instructions of the unit, or damage caused by overheating, use of nonapproved fuels, unauthorised tampering with the appliance or the flue gas pipe, electrical excess voltage, an incorrect, insufficient or excessive flue draught, condensation, non-performance or deficient maintenance and cleaning, nonobservance of the relevant and applicable building regulations, incorrect operation by the user or third parties, as well as any transport and handling damage.

**This manufacturer's warranty does not affect the statutory warranty provisions.**

03.04.2018

## Electronic Waste

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. 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.



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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