



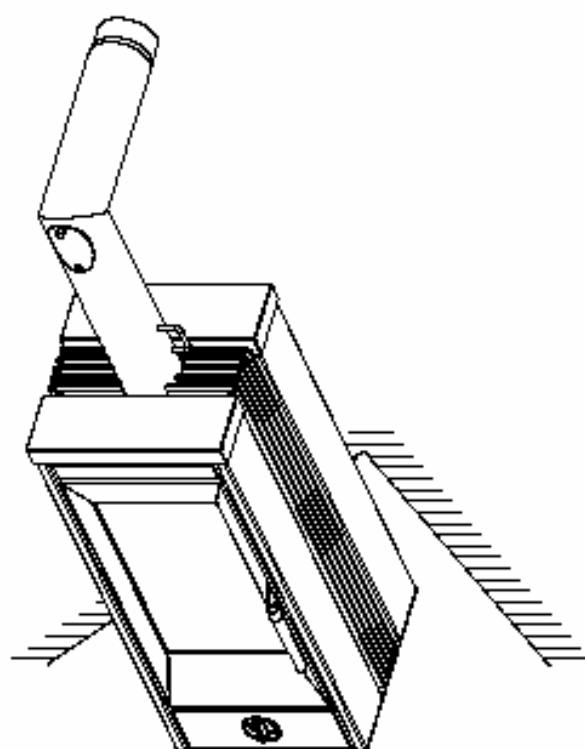
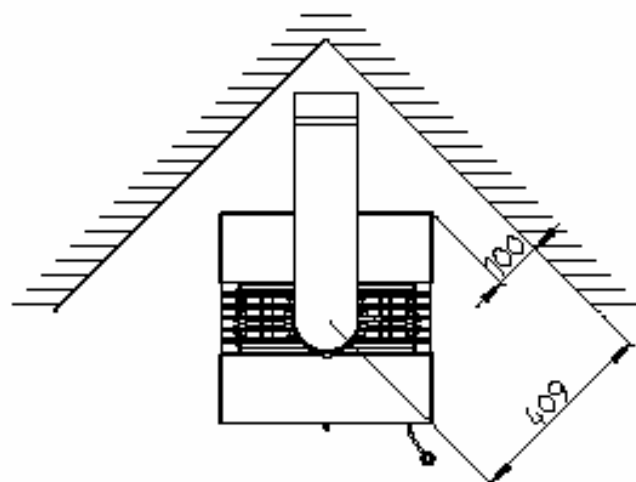
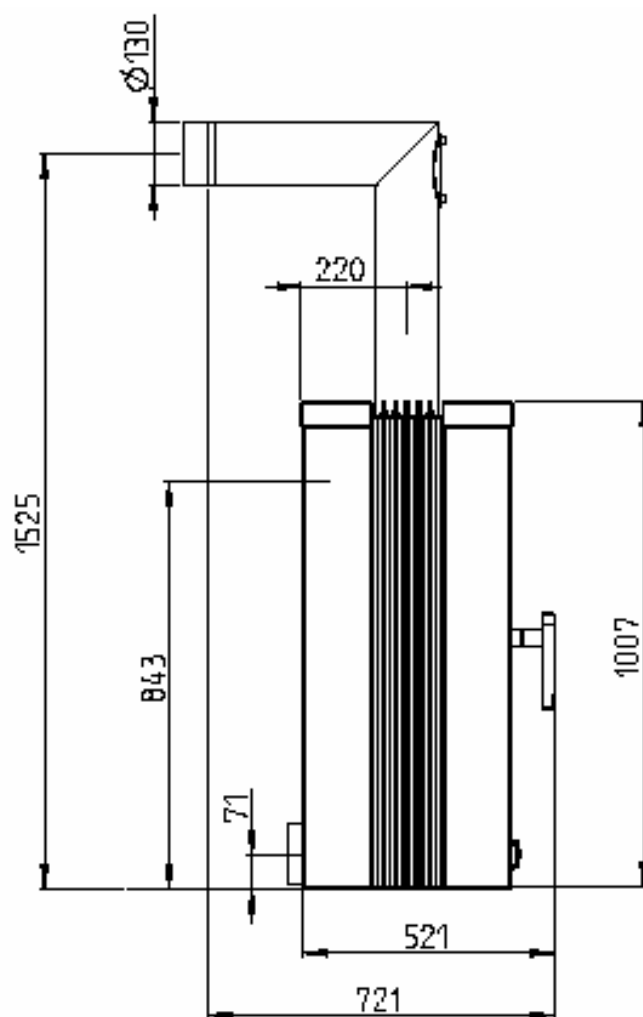
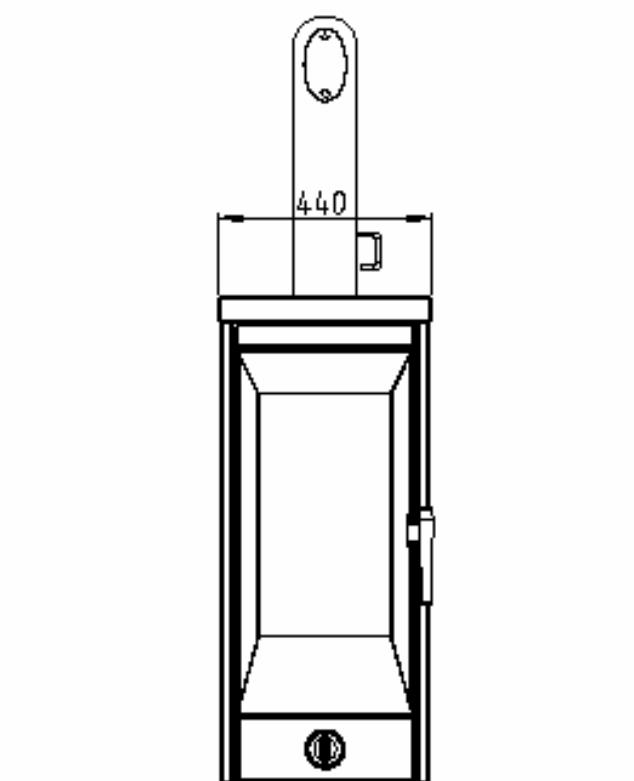
Vitra Passivehouse

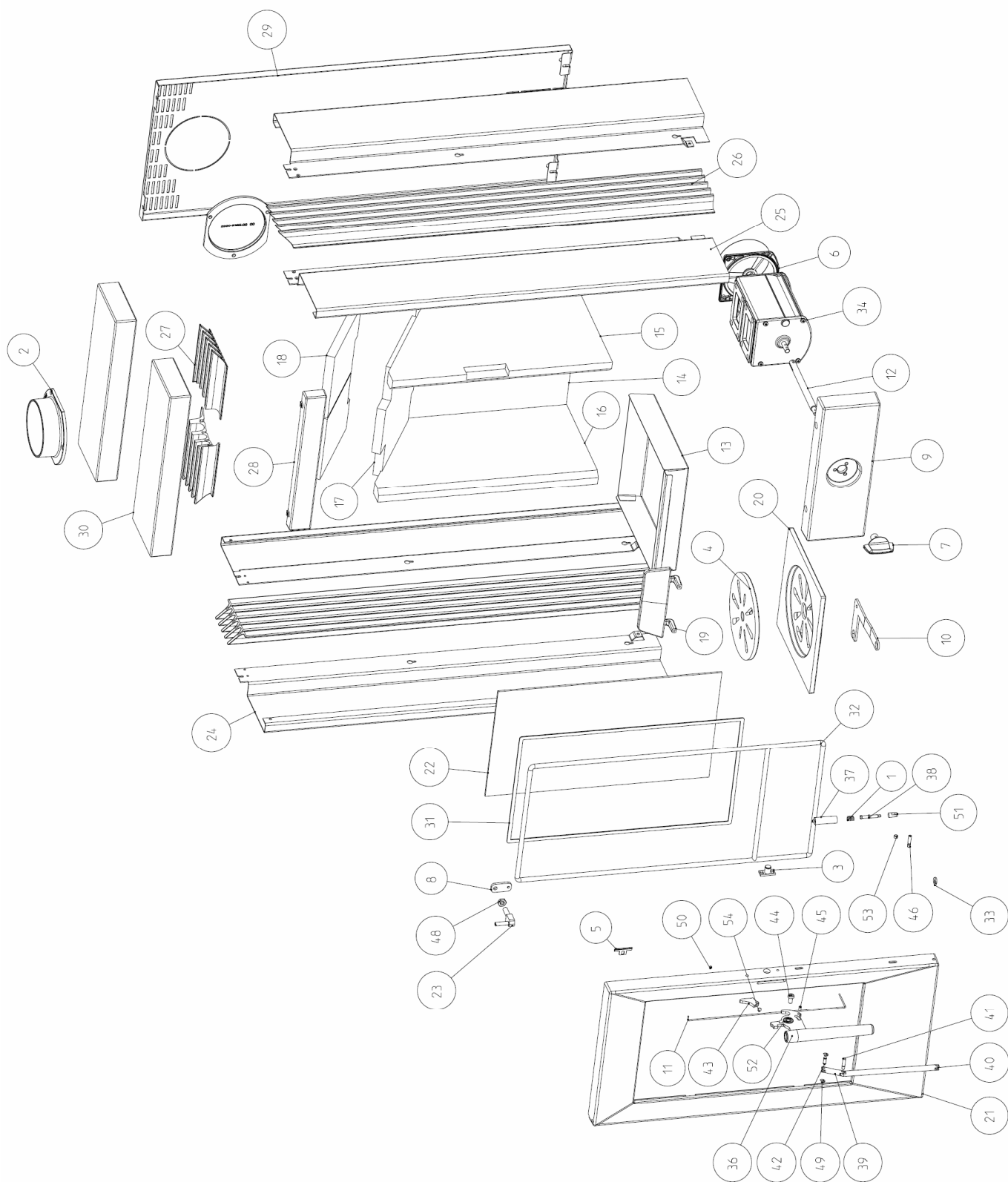
Instruction Manual





DIMENSIONS





Pos	Benennung	Artikel nummer	Item Designation	Article number
1	Pressure spring	108131	29 Rear panel	Z33563
2	Flue pipe adapter	Z17799	30 Sandstone cover	Z33538
3	Door latch	B12322	30 Soapstone cover	Z33579
4	Vibrating panel	Z25948	31 Flat gasket	103693
5	Glass retainer	L00475	32 Round sealing strip	100485
6	Intake air duct	Z32671	33 Door support	L01214
7	Control knob	Z33349	34 Supply air regulator	B16018
8	Door adjusting plate	L01136	Combustion chamber door cpl.	B16192
9	Panel lower	Z33575	36 Door handle welded	B16193
10	Vibrating grate lever	L01235	37 Piston housing	Z33965
11	Torsion spring	Z33541	38 Piston rod	Z33964
12	Control knob shaft		39 Driving rod upper	Z33962
13	Ash tray	L01239	40 Driving rod lower	Z33961
14	Fireclay rear	Z33462	41 Driving rod guide bolt	Z33959
15	Fireclay front right	Z33464	42 Driving rod bolt upper	Z33960
16	Fireclay front left	Z33463	43 Handle lock	L01641
17	Deflector panel lower	Z33539	44 Fillister head screw	104622
18	Deflector panel upper	Z33540	45 Headless screw M5	108427
19	Wood retainer	Z33583	46 Headless screw M6	111749
20	Vibrating grate	Z33469	47 Headless screw M8	111696
21	Combustion chamber door		48 Hexagonal nut	100483
22	Door glass	Z33465	49 Shaft locking clip	103981
23	Hinge	B15934	50 Setscrew	100746
24	Side casing front/left rear/right	L01231	51 Rod eye	111748
25	Side casing front/right rear/left	L01232	52 Deep-groove ball bearing	111747
26	Side casing profile	B15933	53 Distance	Z26185
27	Side casing profile	B15944	54 Distance	Z28502
28	Panel upper	Z33565		

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EXPLANATIONS TO SYMBOLS

Important notification

Practical advice

Use plan for help



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.



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 and ceramic panels remain intact. Scratches to the material can easily occur. Natural stone and ceramic panels are excluded from the warranty.

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



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.

Exhaust values for multiple use of the chimney according to DIN 4705 or to dimension the chimney according to DIN 4705.

Exhaust mass flow	5,3 g/s
Exhaust temperature	213,8 °C
Minimum feed pressure at rated useful heat	12 Pa

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.



TECHNICAL DATA

As a stove of type 1, connection to a chimney already used by other stoves for solid or liquid fuels is possible as long as the chimney dimensions do not contradict this according to DIN 4705 (Part 3).

TECHNICAL DATA

Dimensions (mm) and weights (kg)

Height	1000
Width	440
Depth of the corpus	440
Weight with steel casing	158
Flue pipe outlet diameter	130
Rated heating capacity as per EN13240	4 kW
Lowest thermal output	2 kW
Room heating capacity dependent on the house insulation	50-110 m ³
Fuel flow rate	1,2 kg/h
Efficiency	80,9 %
CO ₂ content	8,9 %
CO emissions related to 13% O ₂	1095 mg/Nm ³
dust emissions	18 mg/Nm ³

1. IMPORTANT INFORMATION

Please read these instructions before installation and operation. Observe the national provisions and laws as well as the regulations and rules applicable locally.

GENERAL WARNING AND SAFETY INFORMATION

Observe the introductory general warning information

- Read the entire manual thoroughly before putting the stove into service.
- 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 leads 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 (cold hand).
- Make your children aware of this particular danger and keep them away from the stove during heating.
- Only burn the approved materials listed in the Chapter "Clean burning".
- 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 due to the danger of fire!
- When your stove is burning, the use of highly inflammable and explosive materials in the same or adjacent rooms is prohibited.

PRIOR TO SET-UP

1.1 Floor bearing capacity:

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

Modifications to the firing installation may not be performed. This leads to loss of warranty and guarantee.

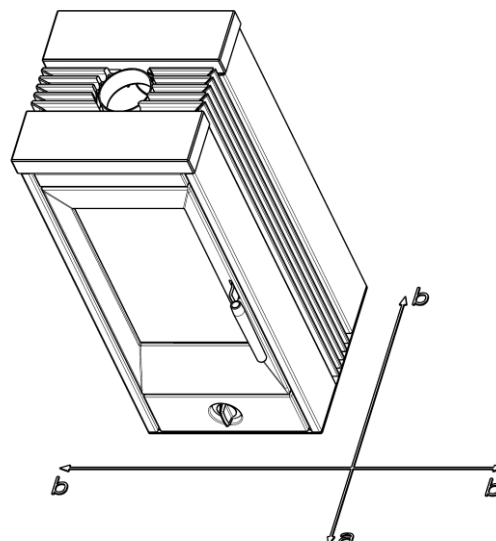
SAFETY DISTANCES (minimum distances)

1. To non-inflammable objects

a > 400 mm b > 100 mm

2. To inflammable objects and to reinforced concrete bearing walls

a > 800 mm b > 200 mm



1.2 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,



- 1.3 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.

- 1.4 Push the embers together to form a firebed when you add new fuel.
- 1.5 Only use suitable tools when handling embers and make sure that no embers fall out of the combustion chamber onto inflammable material.
- 1.6 Use the equipment supplied to open the doors of your stove, e.g. heat-resistant gloves.
- 1.7 **Stoves type 1 (BA 1):**
These may only be operated with the combustion chamber door closed.
- 1.8 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.
- 1.9 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 wet fuel is used and operation is damped too much.

If this occurs phone the fire brigade and get yourself and other residents out of harm's way.

Note: The size of the combustion chamber door makes it necessary, particularly with post-heating when ablaze, not to open the door too abruptly to prevent the tips of the flames reaching out.

Important information relating to ambient air dependent and ambient air independent operation:
(Effective for Germany. Dated September 2002)

The Vitra woodburning stove

is tested in accordance with EN 13240 as an ambient air dependent stove. This stove extracts its entire combustion air requirements from the room in which it is installed via the central air intake duct at the rear of the stove.

Thanks to the airtight configuration of the air supply line and flue pipes the Vitra FC41x (for the LAS system) and FC51x models comply with 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) and the draft standard "Requirements for testing ambient air independence, Part 1: Room heaters" of the FNH standards committee (dated February 2004). An application has been filed for the general technical approval from the DIBT as an ambient air independent stove.

When combined with ventilation and air conditioning systems (e.g. controlled ventilation and aeration systems, fume hoods, etc.) section 4 of the Firing Ordinance (FeuVO) is applicable in Germany. An airtight (i.e. ambient air independent) connection/operating mode (see point 2) is to be ensured here or the stove is to be operated in an ambient air dependent manner and secured to the ventilation and air conditioning system or a ventilation system which is approved for solid fuel firing systems and is able to supply the installation area with the required level of combustion air (approx. 20 m³/h) is to be installed.

Please ensure you comply with the applicable local rules and regulations in consultation with your district master chimney sweep. We do assume any liability for modifications made after the publication of this information. We reserve the right to make alterations.

2. A SMALL STUDY OF HEATING

SUITABLE FUELS AND FUELS QUANTITIES

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

Only use dry fuel (moisture content between 14 and 18 %). Burning waste of any kind, particularly plastic, damages your stove and chimney and is prohibited by the emission reduction laws.

FUEL QUANTITIES

The stove is fitted with a construction-specific flat firebox. This means only one layer of fuel may be laid on the base embers.

Please observe that adding greater quantities of fuel leads to emission of more heat and greater heating of the stove than it is designed for. This may cause damage to your stove.

WOOD TYPES

Different types of wood have different fuel values. Deciduous wood 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	Fuel value Kwh/ m3	Fuel value Kwh/kg
Maple	1900	4.1
Birch	1900	4.3
Beech	2100	4.0
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

MAXIMUM FUEL QUANTITIES

Wood:

2 logs of approx. 0.6 kg

Wood briquettes (broken):

2 pieces of approx. 0.6 kg

Your stove output is regulated via the knob. This regulator knob must be used according to your own experience since your stove output also depends on the chimney draught.

Use the heat-resistant glove when operating the regulator knob.

The riddle grate lever (part 10) may only be operated with the riddle hook.



Facing the challenges of our times means assuming responsibility. Maintaining our natural world is now one of our most important tasks. Our products represent developments according to the state of the art. This is the main precondition for clean, efficient and problem-free working of our stoves.

CLEAN BURNING

Clean combustion requires:

1. DRY AND UNTREATED FIREWOOD.

Guideline between 14 % and 18 % relative wood moisture.
Wood stored dry and ventilated for 2 – 3 years.



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

2. THE RIGHT QUANTITY OF FIREWOOD AND FIREWOOD DIMENSIONS

- Too much firewood leads to overheating.
This stresses the material too much and leads to poor flue gas values.

Too little firewood or logs being too large means the stove does not reach optimum operating temperature.
The flue gas values are also poor in this case.

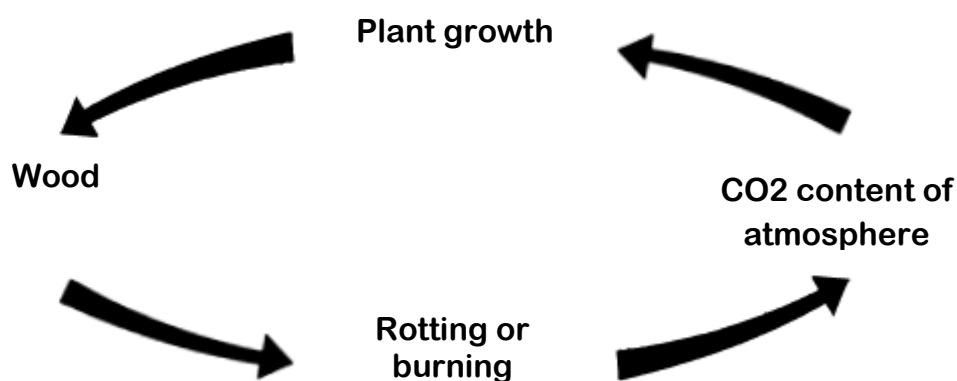
- The right quantity of firewood is:
For wood ≈ 1.2 kg (2 logs - 25 cm long) per layer (guideline) for rated heating value.
For minimum thermal output ≈ 0.6 kg (2 logs - 25 cm long)

Note: Only wood and wood briquettes may be burnt in your stove. Plastics, treated wood (e.g. chipboard), coal and textiles may not be burnt.



BURNING WOOD

The clean burning of wood represents the same chemical process as natural rotting, i.e. the CO₂ (carbon dioxide) released does not additionally increase or burden the original CO₂ content in the atmosphere.





3. INSTALLATION OF THE STOVE

Ensure that the deflector plate (page 4-5, part 17) is correctly positioned prior to initial commissioning and after relocation, cleaning and service work. The damper flap must be open in the flue pipe.

Ensure with this stove that the chimney draught reaches at least the value specified (10 Pa). If there are any problems with this, contact your master chimney sweep.

CONNECTING THE STOVE

Proceed as follows for new connections in a brick-built chimney:

1. Measure and mark out the stove connection (take into consideration any floor plate thickness) according to natural dimensions.
2. Chisel out (drill) the hole in the brickwork.
3. Brick in the wall liner.

Seal the wall liner first with mineral rock wool. Render with heat-resistant cement mortar or equivalent.

4. Position the floor plate with floor protection (cardboard) once the mortar has set and after painting.
5. The stove can now be carefully lifted onto the floor plate.

The stove should not be pushed on unprotected floors.



Strong corrugated 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.

The connection may not project into the chimney shaft! Seal the gap between flue pipe and wall liner with ceramic sealer.

The installation must conform to the respective safety and building regulations. Please contact your master chimney sweep in this context. He will be pleased to inform you.

If you use a system chimney (e.g. glazed fireclay) we would ask you follow the manufacturer's connection instructions closely.

EXTERNAL COMBUSTION AIR INLET (OPTIONAL)

- The scope of supply does not include the intake nozzle (page 4-5, part 6).

- Connect to the intake nozzle a pipe Ø125 (e.g. steel spiral or HT pipe) and fix this (not included in scope of supply!)

- The air supply line must be gas-tight for ambient air independent operation. (Apply heat-resistant silicone all around the joints). The air line, which should be provided with a shut-off valve close to the stove, should not be longer than 4m or have more than 3 bends.

- If the line leads outside it must have a windbreak.

4 . O P E R A T I O N

FIRE LIGHTING

To reduce the emission of pollutants as far as possible, we ask you to observe the following instructions for the sake of the environment.

1.

If the stove and chimney are still cold or if there is atmospheric low pressure, we recommend burning some paper initially to remove the cold from the stove and chimney.

2.

To light the fire, place uncoated paper at the bottom of the combustion chamber, then 0.5 kg softwood chippings and 1 kg wood (3 small logs). Turn the regulator knob to the right to fire lighting setting; primary and secondary air are completely open. (See "Regulator knob" see page 14)

Please do not use glossy paper or paper from magazines. It does not burn well and the printing inks create highly toxic substances in the flue gas.

3.

Only use paper for fire lighting. Wait until the softwood chippings are burning well.

Turn the regulator knob 90° to the left some minutes later. The primary air is now closed and the secondary air completely open. Set the regulator knob to the ideal setting some minutes later; (see "Regulator knob" page 14)

4.

After burn-off, place approx. 1.2 kg wood (2 logs) on the fire. Open the riddle grate and the primary air until the wood burns well.

Proceed in the same way every time you place more wood on the fire.

NOTE:

If a lot of smoke develops when wood is placed on a low firebed and if the riddle grate and primary air are only opened then, a explosive gas/air mixture may arise and cause a deflagration. It is recommended for safety reasons to start fire lighting again.

5.

The mineral content of the wood (approx. 1 %) remains at the bottom of the combustion chamber as the residue. 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.



THE STOVE COATING ONLY CURES COMPLETELY ON INITIAL USE DUE TO THE HEAT

- Do not touch the surface during heating. It is still soft.
- Our coatings are harmless according to TÜV report; a hazard to health can be ruled out. However, we recommend airing the flat after initial heating several times.
- Heat the stove extensively – this shortens the curing time.
- the curing of the surface is complete after some proper heating processes.

Please see Chapter 2 for all information on the composition of firewood and correct heating.

ASH DRAWER

(Page 4-5, part 13)

The ash drawer is to be emptied regularly to prevent excessive loading of the grate.

**Never heat the stove with the ash drawer open.
Hazard of overheating and loss of warranty.**



Caution: The ash may contain remaining embers. Therefore do not put ash in flammable containers and do not place the ash drawer on flammable surfaces.

OPERATING THE RIDDLE GRATE

(Page 4-5, part 10)

The ash is moved from the combustion chamber to the ash drawer by pushing the riddle grate handle (part 23) back and forth. This frees the way for the primary air intake which is required for heating up.

The riddle grate should always remain closed. Exception: Wood or briquettes are too moist.

The riddle grate does not have to be operated during heating.

CONTROL KNOB

(at ideal setting)

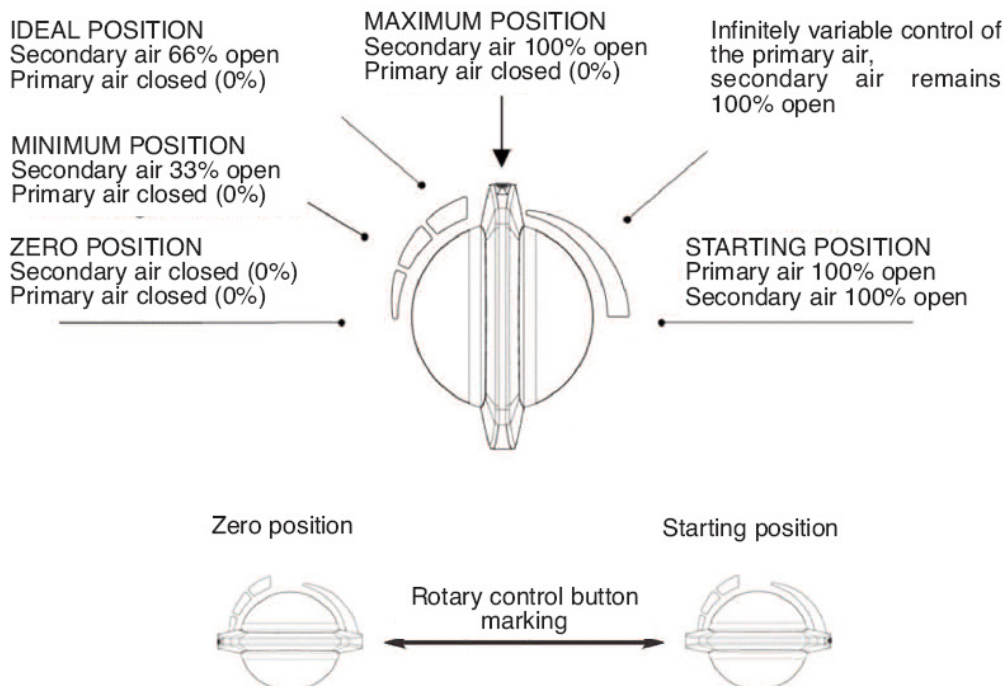
Fuel	Wood/wood briquettes
Primary air	closed (0%)
Secondary air	2/3 closed (66%)
Riddle grate	closed

The setting "Primary air open completely" may only be used as heating up setting.

This regulator knob must be used according to your own experience since your stove output also depends on the chimney draught.

Note: Air regulator seals to 100%.

Complete closure of the air regulator (zero setting of regulator knob) during operation strictly



5. ASSEMBLY OPTIONS

CHANGING FLUE PIPE CONNECTION ABOVE TO CONNECTION AT REAR

- Remove the both natural stone covers (part ?? and ??).

- Cut out the pre-stamped, round section in the rear wall (part 46) using a hacksaw.

- Swap the flue gas connector and the hob (part 51, 53) with each other.

- Fit the new plate fins (part 43 - must be optionally ordered).

(Make sure your fingers do not become trapped)



Please remember when changing the flue pipe connection that the individual parts of the soapstone panelling weight about 34 kg. In addition the surface of the soapstone should be protected to prevent scratching.

6. MAINTENANCE AND CLEANING

GENERAL MAINTENANCE

Your stove has been designed by our development team for minimum maintenance and very long service life. However some cleaning and checking of seals is necessary from time from time.

The periods between inspections depend in particular on the quality of firewood you use and the frequency of use.

All maintenance and cleaning work is only to be performed on completely cooled stoves.

JUST TO RECAP

Only use wood that has been stored well, is dry and untreated. Use the correct quantity of wood.

Poor quality fuel may more than double the amount of maintenance work necessary.

SURFACE TEXTURE AND CLEANING

The glass in the doors can be cleaned using RIKA glass cleaner. RIKA glass cleaner is available from stove dealers. Moist firewood may be the cause of excessive sooting of the glass.

The stove surface is heat resistant and may only be cleaned with a cloth (possibly moist).

Only use original coating for repairs; this is available from your specialist dealer. Do not clean the coating prior to the first heating!

CONVECTION AIR OPENINGS

Suction off 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.

CLEANING THE FLUE GAS PIPES

(1 x yearly)

- Remove the flue pipes

- Any soot and dust deposits in the stove and pipes can be brushed off and suctioned off.

- Check the seals of the combustion chamber and the ash drawer at the beginning and end of a heating period.

If these are damaged or worn, please order a replacement set.

Only intact seals ensure your stove works perfectly.



7. PROBLEM SOLUTIONS

WHAT TO DO IF...

Problem	Reason	Solution
1. Ceramic glass soots over too quickly	→ Poor air movement → Incorrect regulation → Too much fuel → Moist wood	Always: Every glass plate must be cleaned from time to time (depending on use) with RIKA glass cleaner Clarification with chimney sweep (possible raising of chimney) Regulate according to instructions for regulator knob (if secondary air is closed, the glass plate soots over very quickly, but burns off again is operation is correct) See "Maximum fuel quantities" See "Clean burning", possibly use wood briquettes (are evenly dry)
2. Stove does not draw properly	→ Chimney draught insufficient → Stove is sooted over inside	See "A small study of heating" See "Maintenance and cleaning"
3. Stove does not start burning properly	→ Weather influence → Incorrect heating up	See "Fire lighting" See "Fire lighting"
4. Stove smells strongly and smokes outside	→ Burning-in phase → Stove is dusty/dirty	See "Operation" (curing of coating) See "Convection air openings"
5. Coating does not cure	→ Burning-in phase was not completed properly	See "Operation" (curing of coating)
6. Flue gas discharge when wood is added and during heating	→ Chimney draught too low, flue pipe connection leaky	Check connections and if necessary re-seal

If you do not obtain a proper solution to your problem despite this information, contact your specialist dealer or master chimney sweep.

8 . W A R R A N T Y

WE GUARANTEE

These warranty conditions apply to Austria, Germany and Switzerland.

For the purpose of timely damage limitation, the warranty claim on the part of the claimant is to be enforced at the RIKA dealer in writing using the invoice and stating the purchase date, model name, serial number and reason for complaint.

WARRANTY

5 years on the welded stove body. The warranty only covers defects in materials and workmanship as well as delivery of spare parts free of charge. Labour and travel times are not included in the manufacturer's warranty.

Only use spare parts recommended or supplied by the manufacturer. Loss of warranty on non-observance!

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

The warranty excludes WEARING PARTS 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, ignition elements, sensors, combustion chamber sensors and temperature controller.

Damage arising from non-observance of the manufacturer's instructions for operation of the unit is also excluded (e.g. overheating, use of non-approved fuels, incorrect intervention in the stove, electrical excess voltage, a chimney draught set incorrectly for the stove, non-performance or deficient maintenance and cleaning, incorrect operation by the user or third parties, etc.) or caused by such.

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

THE WARRANTY DOES NOT AFFECT THE STATUTORY WARRANTY PROVISIONS.



GARANTIE / GARANZIA

Händlerstempel/Timbro del rivenditore:

Kaufdatum/Data d'acquisto:

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Modellname/Nome modello:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

angeschlossen von/allacciato da:

Nummern des Typenschildes auf der Ofenrückseite:

Numeri della targa modello sul retro della stufa:

Serien Nr./Nr. serie:

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GARANTIE / GARANZIA

Händlerstempel/Timbro del rivenditore:

Kaufdatum/Data d'acquisto:

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Modellname/Nome modello:

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angeschlossen von/allacciato da:

Nummern des Typenschildes auf der Ofenrückseite:

Numeri della targa modello sul retro della stufa:

Serien Nr./Nr. serie:

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Z. Nr.
Art. Nr. Z33971

Prod.-Nr. 02/2010

GARANTIE / GARANZIA

Customer/Client:

Stamp
Marque

To/A:

GARANTIE / GARANZIA

Kunde/Ciente

Marke
Marca

An/A