



BRUGERMANUAL
BEDIENUNGSANLEITUNG
USER MANUAL
MANUEL D'UTILISATEUR
BRUKERVEILEDNING
BRUKSANVISNING
KÄYTTÖOHJE
GEBRUIKERSHANDLEIDING

VISIO
3-1

attika®
FEUERKULTUR

RAIS®
ART  OF FIRE

FIRE ENVIRONMENTALLY FRIENDLY!

5 Eco-friendly advices for sensible heating

- common sense both environmentally and economically.

1. Effective lighting. Use small pieces of wood (fir tree) and a suitable fire lighter, for example paraffined wood wool/sawdust. Open the air damper, so plenty of air is fed to the stove and the gases from the heated wood can burn rapidly.
2. Light the fire with only little wood at a time - this gives the best combustion. Remember plenty of air for every time new wood is added.
3. When the flames are diminished, adjust the air damper so that the air supply is reduced.
4. When only glowing embers remain, air flow can be reduced further, so heating demand is just covered. With a lower air supply the charcoal will burn slower and the heat loss through the chimney is reduced.
5. Use only dry wood - ie. wood with a humidity of 15 to 20%.

RECYCLING:

The oven is wrapped in packaging that is recyclable. This must be disposed of according to national rules regarding the disposal of waste.

The glass can not be reused.

The glass should be discarded along with the residual waste from ceramics and porcelain.

Pyrex glass has a higher melting temperature and therefore can not be reused.

If discarded you make an important positive contribution to the environment.

VISIO 3-1

Revision: 2
Date: 06-09-2018

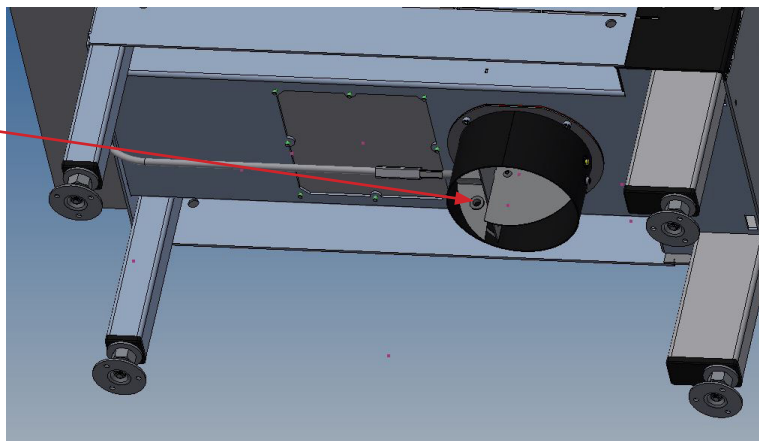
INTRODUCTION	11
WARRANTY	12
TRANSPORT SAFETY	12
SPECIFICATIONS	13
DISTANCES/MEASUREMENTS.....	14
CONVECTION	15
INSTALLATION	16
CHIMNEY	17
CHOICE OF INSTALLATION MATERIALS	18
INSTALLATION MEASUREMENTS	18
MINIMUM DISTANCES TO FLAMMABLE MATERIALS	20
CONVECTION	22
AIR SYSTEM	23
FUEL	23
DRYING AND STORAGE.....	24
REGULATION OF THE COMBUSTION AIR.....	24
VENTILATION	25
USE OF STOVE	25
FIRST USAGE	26
LIGHTING AND FUELLING	26
CONTROL	27
WARNING	28
CLEANING AND CARE	29
MAINTENANCE / REPLACEMENT PARTS	29
CLEANING THE GLASS DOOR PANELS.....	30
CLEANING THE COMBUSTION CHAMBER.....	31
CLEANING OF THE FLUE	32
INTERRUPTION OF OPERATIONS.....	33
CONVERSION OF SELF CLOSING DOOR.....	35
ACCESSORIES.....	37
SPARE PARTS VISIO 3-1 NS MODEL	38
SPARE PARTS VISIO 3-1 DIN+ MODEL	39

N.B. The stove is always delivered as an NS model. (Norwegian model)

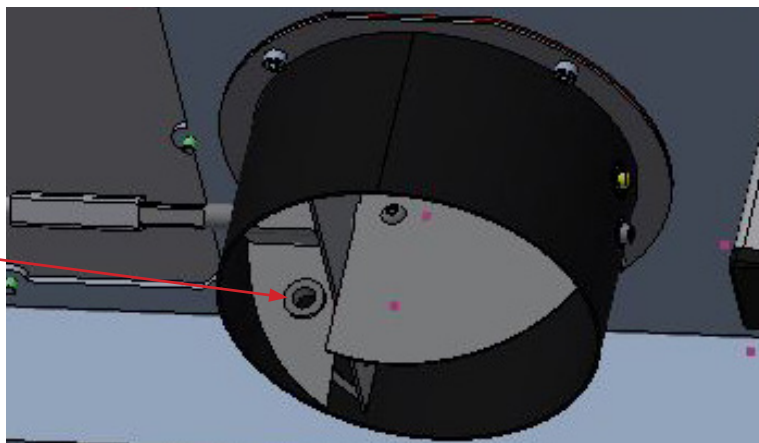
To change the stove into a DIN + model, two things needs to be done.

- Remove the rubber Air restrictor in the Primary airdamper. by pulling it out.
- Remove the Air concentrator plate laying under the grill.

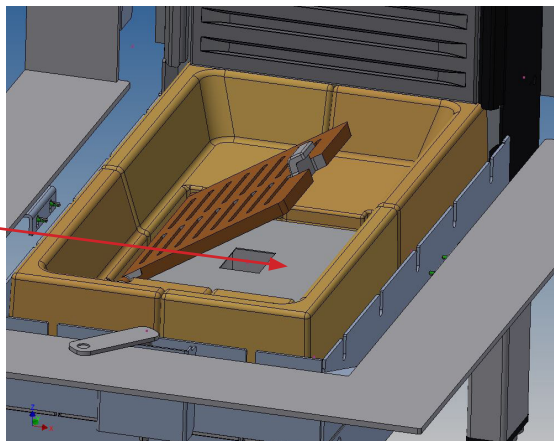
Rubber Air restrictor



Rubber Air restrictor



Air concentrator plate



Introduction

Congratulations on your new RAIS /attika stove.

A RAIS /attika wood burning stove is more than just a heat source: it also shows that you care about design and quality in your home.

To get the most pleasure and benefit from your new stove, it is important that the manual is read through carefully before the stove is installed up and used.

For warranty and all inquiries regarding the stove, it is also important that you know the stove production number. We recommend therefore that you note down the number in the table below.

The production number is at the bottom of the stove side.

Especially for Denmark - New rules for installation of wood burning stoves

On 1 January 2008 a new regulation for stoves came into force. The regulations introduced new requirements for the installation of stoves concerning emission levels and documentation. The consequence is that from 1 June 2008, all newly installed stoves must have an EN approval together with a Norwegian or German approval.

It also introduces a test certificate to ensure that the requirement for emissions are met. This certificate can be found at the back in this user manual, and must be signed by the chimney sweep after installation. Please note, that the certificate must be signed prior to the stove's first use, and should follow the stove throughout its lifetime.

Production number:

Produced by:

RAIS A/S

9900 Frederikshavn, DK

Date: Dealer:

Warranty

RAIS/attika stoves have been repeatedly tested in terms of the safety and the quality of materials and manufacturing. All models are guaranteed from the date of installation.

The warranty covers:

- documented malfunction due to faulty processing
- proven material defects

The warranty does not cover:

- door and glass gaskets
- ceramic glass
- chamber lining
- appearance of the surface structure or natural stone texture
- appearance or changes of colour of the stainless steel or patina surfaces
- expansion sounds

The warranty becomes void in cases of:

- damage due to overfiring
- damage due to external influences and use of unsuitable fuels
- failure to comply with statutory or recommended installation requirements, and in the case of modifications to the stove.
- lack of service and care

Please contact your dealer in the event of damage. In case of warranty claims, we will determine the most appropriate damage repair procedure. In case of repair, we provide professional implementation.

For warranty claims on supplied or repaired parts refer to national/ EU laws/regulations in connection with renewed warranty periods.

The current warranty conditions can be obtained from RAIS A/S.

Transport safety

Before you install the stove remove the transport safety. There are two screws on the back of the stove.



VISIO 3-1 is an inset stove with vertically operated door.

Specifications

DTI ref.: 300-ELAB-2241-EN / 300-ELAB-2241-NS / 300-ELAB-2241/300-ELAB-2241- DIN+

	123 VISIO 3-1 (NS)	223 VISIO 3-1 (DIN+)
Rated power (kW):	8,3	10* *(Austria 7,8kW)
Min./Max. output (kW):	7,2 - 8,3	8,7 - 10
Heating area (m²):	125	150
Stove width/depth/height (mm):	628,2-929,3*-1368 *including frame	628,2-929,3*-1368 *including frame
Combustion chamber width/depth/height (mm):	210-499-230 * *MAX LOAD	210-499-230 * *MAX LOAD
Recommended amount of wood when fuelling (kg): (Distributed between 2-4 logs of wood of approx. 30 cm)	2.3	2.3
Min. uptake (Pascal):	-11	-11
Weight (kg):	260	260
Efficiency (%):	77	80
CO-emission at 13% O ₂ (%)	0.1718	0.0744
NOx-emission at 13% O ₂ (mg/Nm³):	99	87
Particles emission acc. to NS3058/3059 (g/kg):	5.79	-
Dust measured acc. to Din+ (mg/Nm³):	30	18
Flue gas mass flow (g/sec):	9.9	9.6
Flue gas temperature (° C):	229	238
Flue gas temperature (° C) at flue collar	275	285
Intermittent operation:	yes	yes

DTI
Danish Technological Institute
Teknologiparken Kongsvang Allé 29, DK-8000 Aarhus C
Danmark
www.dti.dk
Telefon: +45 72 20 20 00
Fax: +45 72 20 10 19

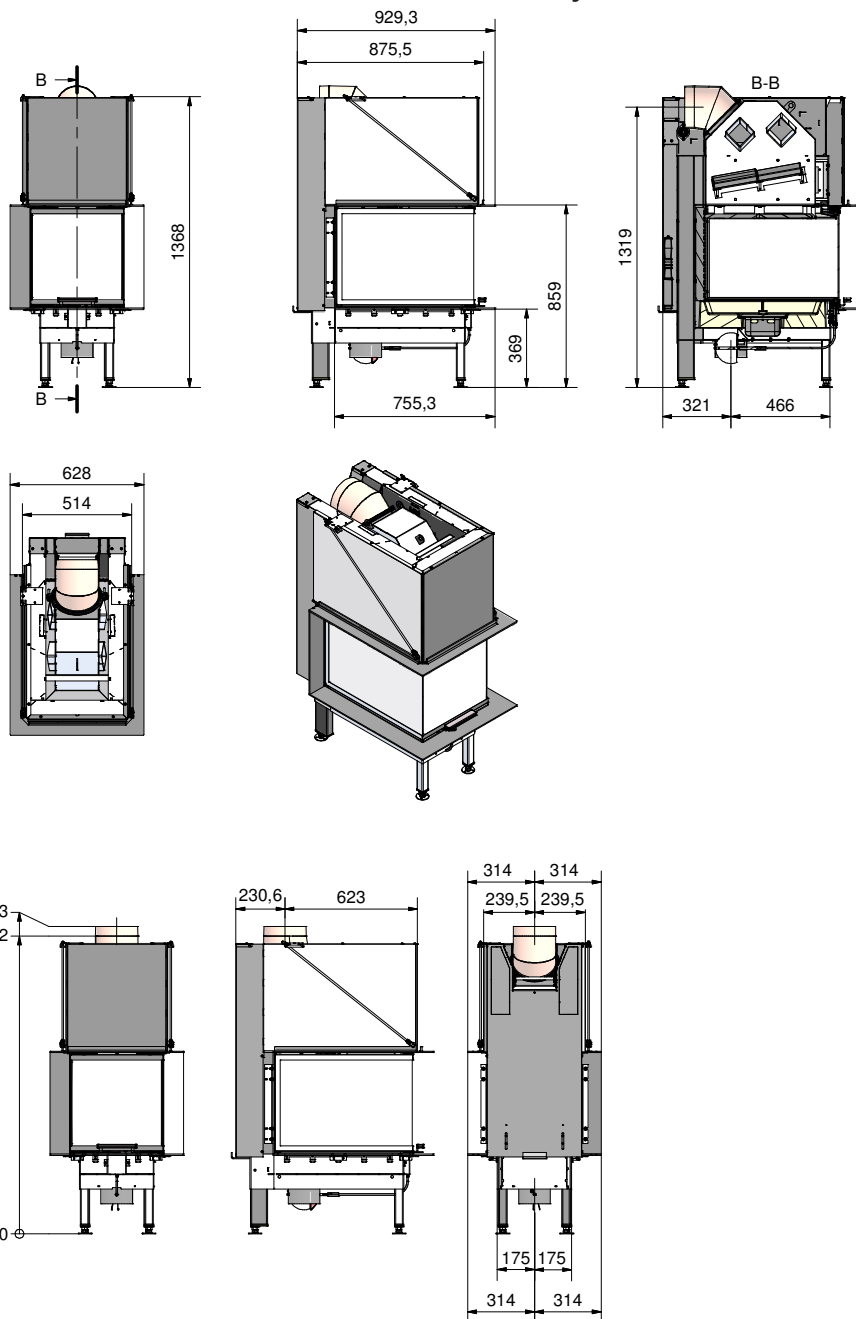
Distances/Measurements

Note that the exhaust branch can rotate continuously.

I: Distance from floor to centre smoke top outlet

K: Distance from back side to air intake bottom (Air System)

N: Distance from side to air intake bottom (Air System)



Convection

RAIS/attika stoves are convection stoves. Convection means that the air is circulated so the heat is more evenly distributed throughout the entire room.

The **cold air** is sucked in at the base of the stove, and runs along the stove's combustion chamber, whereby air is heated.

The **heated air** flows out along the sides and out of the top ensuring air circulation

Note that all outer surfaces become hot during the stove's use - extreme care needs to be taken.

Use the insert optimally

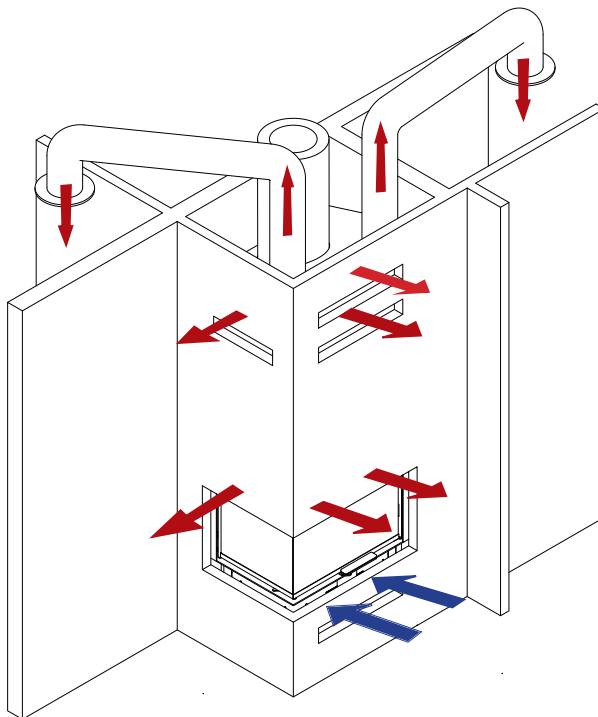
By mounting the hot air nozzles and flexible hoses (or similar) on top of the stove, it is possible to "move" the heat to other rooms.

Decisions must be made concerning the positioning of the inlets and outlets of the convection system.

Make sure that the area requirements are respected, and that holes are not blocked from the outside.

Discolouration of the stove walls, doors and convection outlets may occur. This is caused by the rising hot air.

RAIS assumes no responsibility for any installation or consequential damages.



Installation

It is important that the stove is installed properly for the sake of both the environment and safety.

When installing the stove, all local rules and regulations, including those referring to national and European standards must be respected. Local authorities and a chimney specialist should be consulted before installation.

The stove may only be installed by a qualified / competent RAIS dealer / installer or the warranty will be invalid.

It is prohibited to carry out unauthorised alterations to the stove

NOTE!

Before the stove can be used, the local chimney sweep must be notified.

There should be an ample supply of fresh air in the installation room to ensure good combustion- if necessary through an airbox connection . Note that any mechanical exhaust ventilation e.g. an extraction hood may reduce the air supply. Any air vents must be placed in such a manner that the air supply is not blocked.

Alternatively, the stove can be supplied with fresh air directly from the outside through a flexible piping fitted to the damper (see Air system section).

The stove consumes 10 to 20 m³ of air per hour.

The floor must be able to carry the weight of the stove and the chimney. If the existing floor construction doesn't meet this requirement, suitable measures (e.g. load distributing plate) shall be taken to achieve it.
Consult with a construction expert.

The stove should be placed on non-flammable material.

The stove must be placed at a safe distance from flammable materials.

It must be ensured that flammable objects (e.g. furniture) are not placed closer than the distances indicated in the following section concerning installation (fire risk).

If the stove is installed on a flammable floor, the size of the non-flammable surface underneath the stove must be in accordance with national / local regulations.

When you choose where you want to place your RAIS /attika stove, you should think of the heat distribution to other rooms. Then you will get the most pleasure from your stove.

See the manufacturer's plate on the stove.

Upon receiving, the stove must be inspected for defects.

NB!!

The stove may only be installed by a qualified/competent RAIS dealer/installer.
See www.rais.com for list of dealers

Chimney

The chimney is the driving force which makes the stove function. In order for the stove to perform satisfactorily the chimney height must be sufficient to ensure the correct draught of 14 to 18 Pa so as to clear the products of combustion and prevent problems of smoke emanating into the room when firing.

NOTE: A chimney height of not less than 4.5 metres measured vertically from the outlet of the stove to the top of the chimney should be satisfactory. Alternatively the calculation procedure given in BS 5854:1980 may be used as the basis for deciding whether a particular chimney design will provide sufficient draught.

The outlet from the chimney should be above the roof of the building in accordance with the provisions of Building Regulations Approved Document J.

If installation is into an existing chimney then it must be sound and have no cracks or other faults which might allow fumes into the house. Older properties, especially, may have chimney faults or the cross section may be too large i.e. more than 230 mm x 230 mm. Remedial action should be taken, if required, seeking expert advice, if necessary. If it is found necessary to line the chimney then a flue liner suitable for solid fuel must be used in accordance with Building Regulations Approved Document J.

Any existing chimney must be clear of obstruction and have been swept clean immediately before installation of the stove. If the stove is fitted in place of an open fire then the chimney should be swept one month after installation to clear any soot falls which may have occurred due to the difference in combustion between the stove and the open fire.

If there is no existing chimney then either a prefabricated block chimney in accordance with Building Regulations Approved Document J or a twin walled insulated stainless steel flue to BS 1856-1 can be used. These chimneys must be fitted in accordance with the manufacturer's instructions and Building Regulations.

A single wall metal fluepipe is suitable for connecting the stove to the chimney but is not suitable for using for the complete chimney. The chimney and connecting fluepipe must have a minimum diameter of 180 mm. Any bend in the chimney or connecting fluepipe should not exceed 45°. 90°bends should not be used.

Combustible material should not be located where the heat dissipating through the walls of fireplaces or flues could ignite it. Therefore when installing the stove in the presence of combustible materials due account must be taken of the guidance on the separation of combustible material given in Building Regulations Approved Document J and also in these stove instructions.

If it is found that there is excessive draught in the chimney then either an adjustable flue damper or alternatively a draught stabiliser should be fitted. The adjustable flue damper should not close off the flue entirely but should in its closed position leave a minimum continuous opening free area of at least 20 % of the total cross sectional area of the flue or fluepipe.

Adequate provision e.g. easily accessible soot door or doors must be provided for sweeping the chimney and connecting fluepipe.

You should also familiarise yourself with the draught conditions for chimneys with 2 flues.

The stove is supplied with a ø200 mm flue outlet spigot.
The stove is approved with a ø180 mm flue outlet spigot, which can be retrofitted.

Choice of installation materials

For non-flammable materials select panels/brick with a thermal resistance greater than $0.03 \text{ m}^2\text{xK/W}$. Thermal resistance is defined as the wall thickness (in m) divided by the wall lambda value.

Consult your installer/chimney sweep.

During the test the stove was installed in a cabinet made of non-flammable building panels 50 mm Calcium silicate (Skamotec 225).

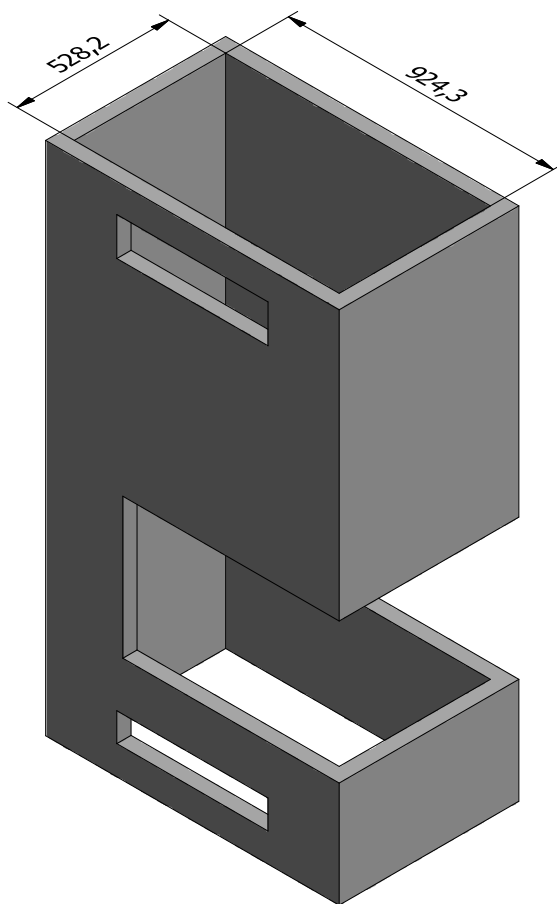
Installation measurements

Valid for installation in non-flammable panels, or in brick.

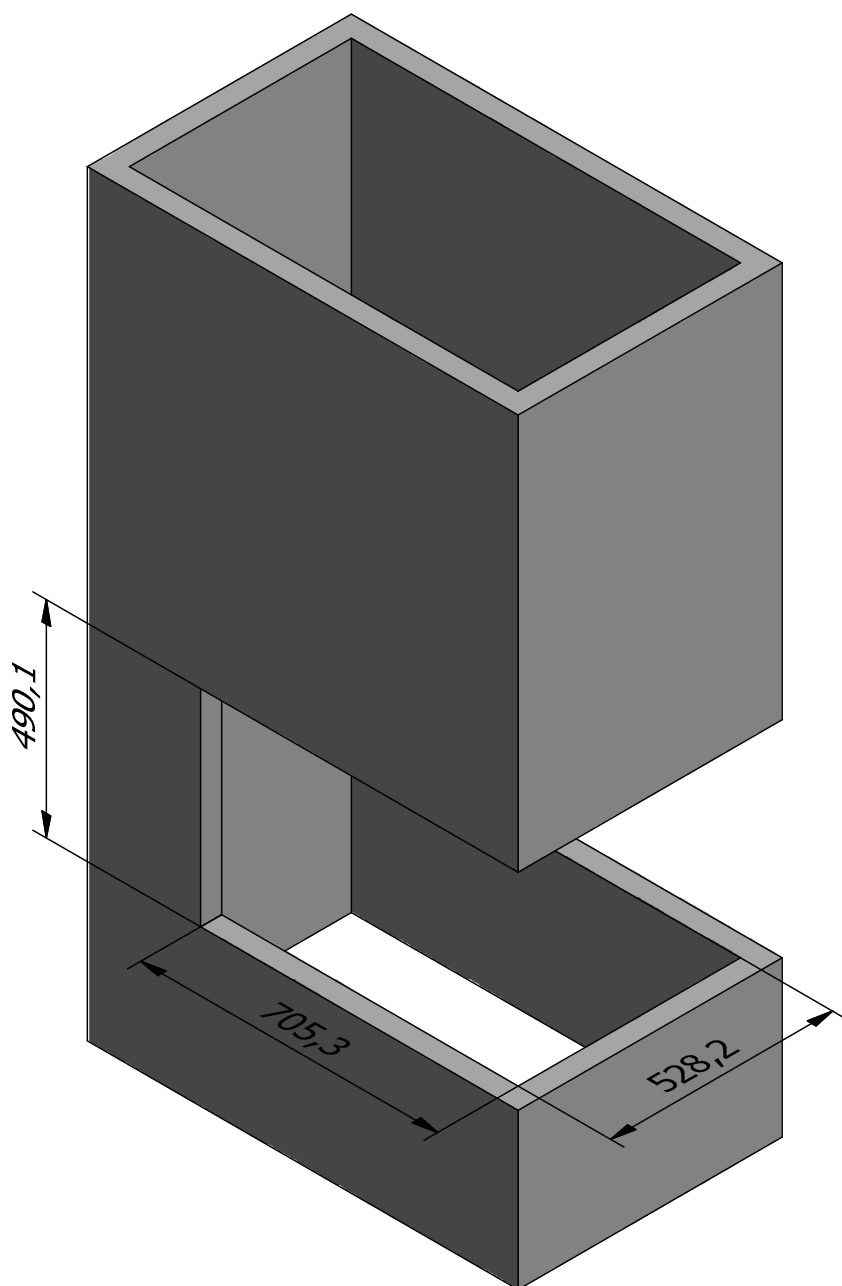
If other materials are used, they must have the same or better properties.

To obtain the necessary distances from the stove to the panel/brickwork, the interior measurements of should be min. 528,2mm X 924,3mm If these are observed, the exterior can be adjacent to a flammable wall. There must be a top plate in the cabinet just above the convection outlet.

A fireplace insert must never be installed too tightly as steel expands during heating.



Hole measurements (height x width x depth) min. 490,1mm x 528,2mm x 705,3mm (int. measurement). *Hole measurements are for stove with inset frame.*

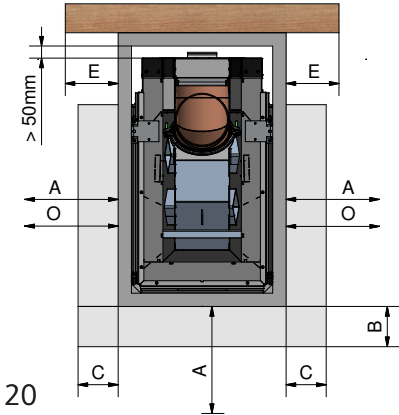
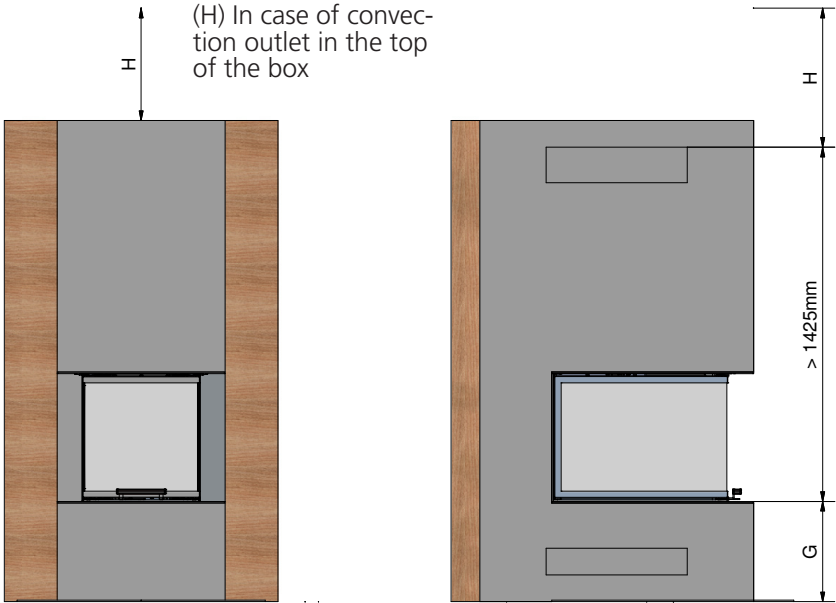


Minimum distance to flammable materials

A - Distance to furniture	700mm
B - Distance to flammable floor in front of the oven	150mm
C - Distance to flammable floor next to the oven	150mm
E - Distance to flammable side wall	0mm
G - Distance to the floor	375mm
H - Distance to ceiling	420mm

Minimum distance to firewall

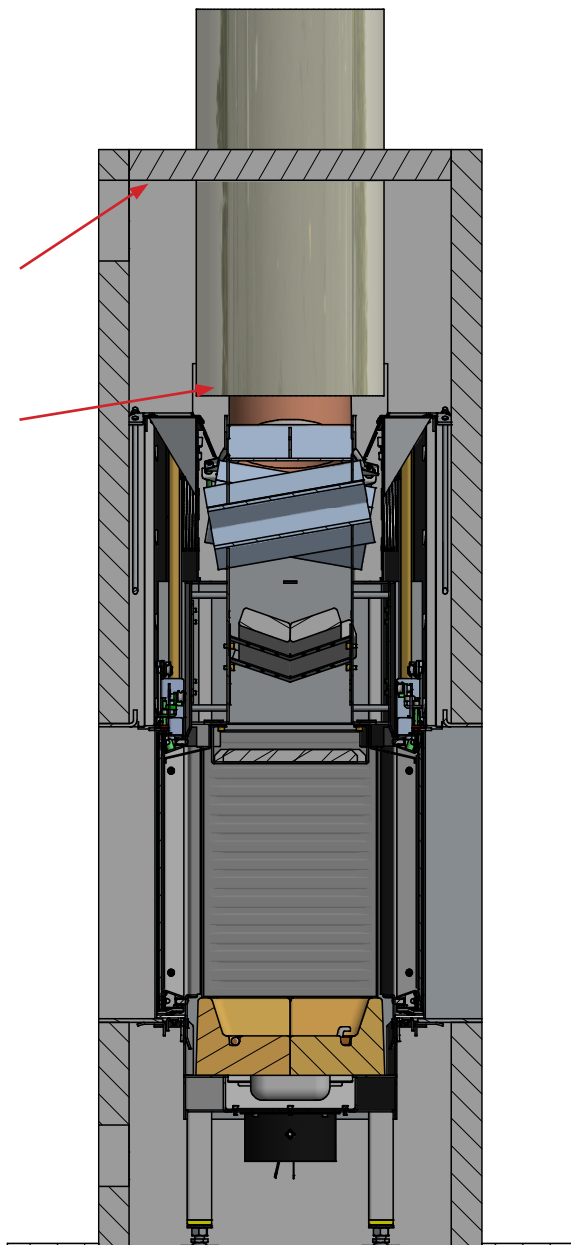
O - Distance to firewall next to stove	500mm
--	-------



To get the most out of your stove and the best possible flow of warm air out of the convection grilles, place the grates just below the non-flammable top plate.

PLEASE NOTE!

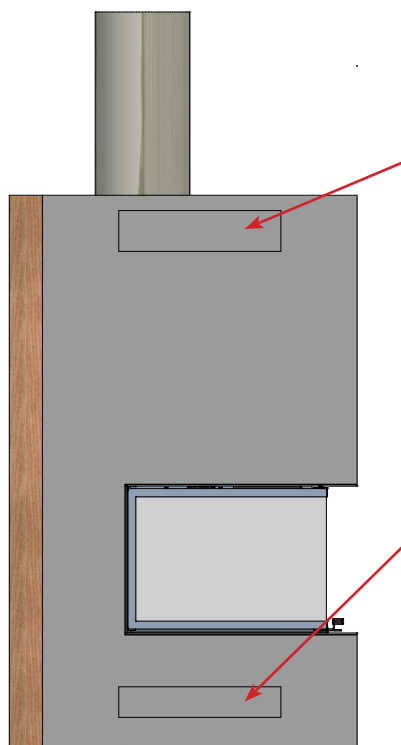
The insulated part of the chimney must go all the way down to the flue collar.



Convection

There is a minimum requirement for the convection area. This area must be observed due to danger of overheating and due to distance to flammable materials. Make sure that the stove can pull convection air in under the stove. And lead it back out of the stove.

When installed in a completely non-flammable construction, there are no requirements for convection area but it is recommended to transfer the area from the panel construction as the brick work may crack at high temperatures.



**Convection area above the stove on
instillation
must be minimum
700cm²
the area can be distributed over
several holes.**

**Convection area below the stove on
instillation
Must be minimum
530cm²
the area can be distributed over
several holes.**

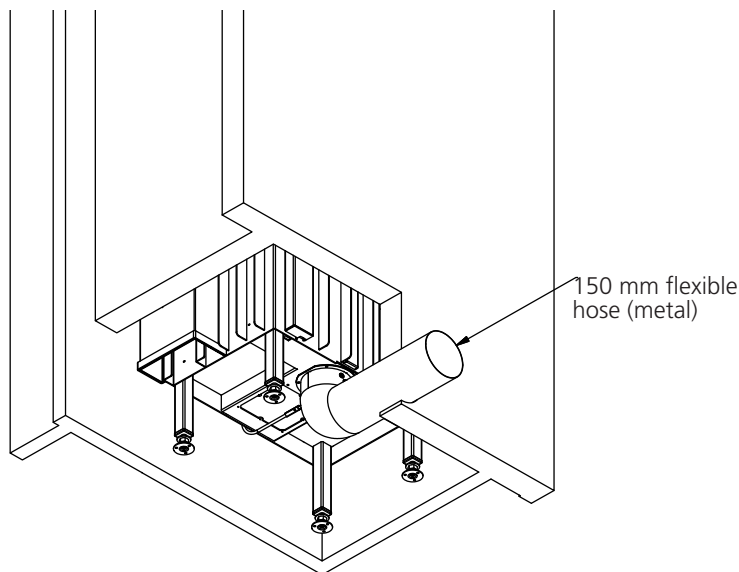
Air system

Mounting the Air-system ensures that the air control system receives fresh air from outside.

To ensure that the Air- system work you have to build it, in such a way, to ensure that there cannot develop low pressure in the home.

If convection grilles are installed, they must not be blocked.

Air connection (optional) can be installed underneath the stove.



Fuel

The stove has been tested in accordance with DS/EN 13229: 2001, DS/EN 13229: 2001/A1: 2003 DS/EN 13229: 2001/A2: 2004 and NS 3058/3059 for the stoking of split dry birch and approved for hardwood/softwood. The firewood must have a water content of 15-20 % and its maximum length should not exceed 30 cm.

Stoking with wet firewood causes both soot, environmental pollution and bad fuel economy. Freshly cut wood contains approx. 60-70% water, and is completely unsuitable for stoking.

You should allow for, that newly cut wood must be stacked for drying for 2 years.

Wood with a diameter of more than 100 mm should be split. Regardless of the size of the wood, it should always have at least one surface area without bark.

It is not allowed to burn lacquered, laminated or impregnated wood, wood with a synthetic surface, painted refuse wood, chipboard, plywood, domestic waste, paper briquettes and pit coal, because it knows malodorous fumes that can be poisonous.

The burning of the above and of amounts larger than those recommended, the stove is subjected to a larger amount of heat, resulting in a higher chimney temperature and lower efficiency. This can result in the stove and chimney becoming damaged and the warranty becoming void.

The calorific value of the firewood is closely connected to the moisture level of the firewood. Moist firewood has a low heat value. The more water the wood contains, the more energy is used to evaporate it and this energy is wasted.

ONLY USE RECOMMENDED FUELS

The following table shows the calorific value of different types of wood which have been stored for 2 years and have a residual moisture content of 15-17%.

Wood	Kg dry wood, pr. m ³	compared to beech/oak
Hornbeam	640 110%	
Beech and oak	580	100%
Ash	570	98%
Maple	540 93%	
Birch	510	88%
Mountain pine	480	83%
Fir	390	67%
Poplar	380 65%	

1 kg of wood yields the same heat energy irrespective of wood type.
1 kg beech merely takes up less space than 1 kg of fir.

Drying and storage

Drying wood takes time. Proper air drying takes approx. 2 years.

Here are some tips:

- Store the wood sawn, split and stacked in an airy, sunny place, which is protected against rain (the south side of the house is particularly suitable).
- Store firewood stacks at a hand's breadth apart, as this ensures that the air flowing through takes the moisture with it.
- Avoid covering the firewood stacks with plastic, as this prevents the moisture from escaping.
- It is a good idea to bring the firewood into the house 2-3 days before you need it.

Regulating the combustion air

All RAIS/attika stoves are equipped with a one-handed operating lever for regulating the damper.

The stove-specific regulating mechanisms can be seen in the diagrams at the front of the manual.

The primary air is combustion air that is added to the primary combustion zone at the bottom of the burning chamber, i.e. the bed of glowing embers. This cold air is only used in the lighting stage.

Secondary air is the air that is added in the gas combustion zone, i.e. air that contributes to the combustion of the pyrolysis gasses (preheated air used for cleaning the glass and combustion). This air is sucked through the damper and preheated via channels in the side/back of the stove and then emitted as hot scavenging air onto the glass. The hot air rinses the glass and keeps it soot-free.

By setting the interval between position 1 and 2 (see next section) ensures optimum utilisation of the energy content of the wood, as there is oxygen for combustion and for the burning of the pyrolysis gases. When the flames are a clear yellow the damper has been set correctly. Finding the correct position comes with time after regular use of the stove.

We do not recommend to turn it down completely, because it feels too hot. Too little air supply gives poor combustion, which can cause high and dangerous flue gases, emissions and poor efficiency. This results in dark smoke emanating from the chimney, and the calorific value of the wood not used to its fullest.

Ventilation

There must not be an extraction/range hood (kitchen) in the same room as the stove as this may cause the oven to emit fumes into the room.

The stove requires a permanent and adequate air supply to operate safely and efficiently. There can be fitted a permanent air supply vent to the room to the stove's combustion air (see section on Air System).

This air vent should not be shut off or sealed under any circumstances.

Use of the stove

Adjustment of the air dampers - the damper has 3 settings
See diagrams at the front of the manual.

Position 1

Push the lever fully to the left.

The damper is closed; there is a minimal air intake.

This option should be avoided during normal operation.

See warning note after next section.

Position 2

Pull the lever to the right up to the first notch (center position).

This position gives only secondary air.

During ordinary stoking the lever is set between position 1 and 2.

When the flames are clear and yellow, the damper is set correctly - resulting in a slow / optimal burning.

Position 3

Pull the lever to the right.

The damper is fully open and provides full ignition air (primary) and full secondary air.

This position is for the lighting stage and refuelling and is not used during normal operation.

First usage

A careful start pays off. Start with a small fire, so that the wood burning stove can get accustomed to the high temperature. This provides the best start and prevents any damage.

Be aware that a strange but harmless odour, as well as smoke from the surface may appear the first time you fire up. This is because the paint and materials need to harden, but the smell disappears quickly - check for good ventilation and draft, if possible.

During this process you must be careful not to touch the exposed surfaces / glass (very hot!). It is recommended that you regularly open and close the door to prevent the door seal from sticking.

In addition, the stove can produce "clicking noises" during heating and cooling, caused by the large temperature differences which the material is exposed to.

Never use any type of liquid fuel for kindling or maintaining the fire. There is a risk of explosion.

If the stove has not been used for a while, follow the steps as if you were using it for the first time.

Lighting and fuelling

PLEASE NOTE!

If air system is connected, the valve must be open.

"Top-Down " lighting (see photos at the front of the manual).

- Open the door completely until it is locked in the open position.
- Start by placing approx. 1kg wood - eg. 2 pieces split wood knot - (Photo 1) in the bottom of the burning chamber. Add approx. 1.2kg dry firewood (Photo 2), split to kindling sticks, loosely on top and 2-3 firelighters or similar.
- Light the fire (photo 3 + 4).
- Set the air damper to pos. 3 (for approx. 15 min.), Then in pos. 2.
- Close the door completely and lift the door handle (air gap of 1-2 cm).
- When the fire has caught the kindling wood, shut the door completely (photo 5) (after approx. 3-10 minutes, depending on the draft conditions in the chimney).
- When the last flames are extinguished and there is a good layer of embers (photo 6), can be filled up to 3-4 pieces of wood - approx. 2-2½ kg (photo 7).
- Shut the door completely.
- If necessary set the air damper to position 3 (far right) for 2-5 min to start the fire (photo 8).
- Adjust the damper between pos. 1 and pos. 2 (see 'Adjustment the air damper').

PLEASE NOTE!

If the fire has burned down too low (too small an ember), it may take longer to get going again. It is recommended to use small pieces of wood to ignite the fire.

When firing the smoke out of the chimney should be almost invisible, just a 'flicker' in the air is observed.

When refuelling, open the door carefully to avoid smoke escaping. Never add wood while there are still visible flames in the oven.

RAIS recommend to refill with 2-4 pieces of wood - approx. 1 ½ - 2 ½ kg - within 45 minutes (intermittent operation).

PLEASE NOTE!

Keep an eye on the stove when lighting.

Keep the door closed during operation.

Be careful, as all exterior surfaces become very hot during operation.

Control

Check the stove for signs of proper firing:

- Ashes appear white
- The walls of the combustion chamber are free of soot

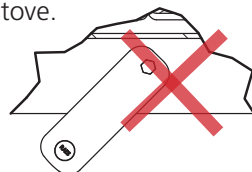
Conclusion: The wood is sufficiently dry.

Warning!!

If the firewood is only burning slowly without flames or smoking, and too little air is added, unburnt exhaust gases are developed . Exhaust gases may ignite and explode. It can cause damage to equipment and possible human injury.

Never **close** the air supply completely when lighting the stove.

Sample Images



If there are only a few embers remaining, you must rekindle the fire.

If you simply add firewood, the fire will not be lit, instead, unburned exhaust gasses will develop.



Here, firewood has been added to an ember layer that is too small and the air supply is insufficient - smoke is produced.



Avoid heavy smoke emission - danger of exhaust gas explosion.

In case of very heavy smoke, open the damper fully, open any doors ajar, or light the fire again.

Cleaning and care

Wood stove and chimney must be inspected by a chimney sweep annually. During cleaning and care, the stove must be cold.

If the glass is sooty:

- Clean the glass regularly and only when the stove is cold, otherwise the soot will burn solid.
- Dampen a piece of paper or newspaper, dip it in the ashes and rub the sooty glass.
- Rub with a piece of paper and glass becomes clean.
- Alternatively use glass polish, which can buy from you RAIS distributor.

Clean the exterior with a soft dry cloth or soft brush.

Prior to a new heating season, it should always be checked that the chimney and smoke gas connector are not blocked.

Inspect the stove interior and exterior for damage, especially seals and the heat insulating plates (vermiculite).

Maintenance/Replacement Parts

Especially moveable parts are worn down by frequent use. Door seals also become worn. Only use original spare parts.

We recommend service performed by your dealer after completion of a heating period.

Combustion chamber lining

The combustion chamber lining protects the body of the wood burning stove against the heat from the fire. the large temperature fluctuations may result in cracks in the plates of the combustion chamber lining, which, however do not affect the functional capacity of the stove. They do not need to be replaced unless long-term use causes them to crumble.

The plates of the combustion chamber lining are only inserting into the stove, and can be easily replaced by your dealer or yourself.

Moving parts

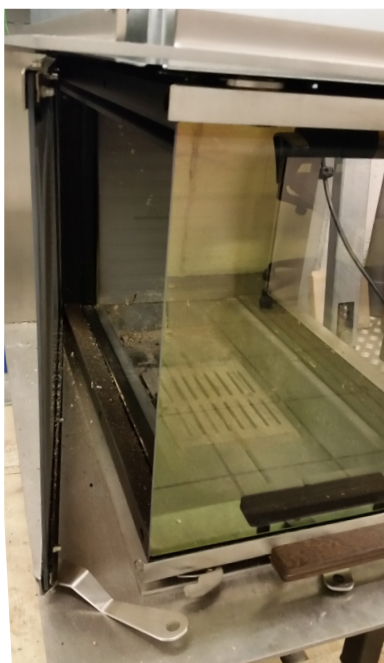
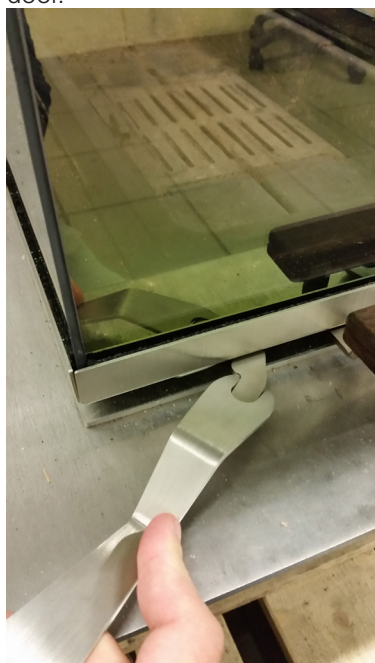
Door hinges and door lock should be lubricated when needed. We recommend to use only our lubricating spray, as the use of other products can lead to the formation of odours and residues. Contact your dealer to obtain the lubricant.

Cleaning the glass door panels

Lock the door in position before cleaning. With the special key supplied with the stove, turn the latch located above the side doors.



To open the side door turn the latch located in the front above and below each side door.



After cleaning, close the door and turn the latch back. Close the latch for locking the door again.

Cleaning the combustion chamber

Scrape/shovel the ashes down into the grate in center of stove. The ash tray under the grill can be removed and emptied into a non-flammable container until it has cooled. You can dispose of ash together with your regular household waste.



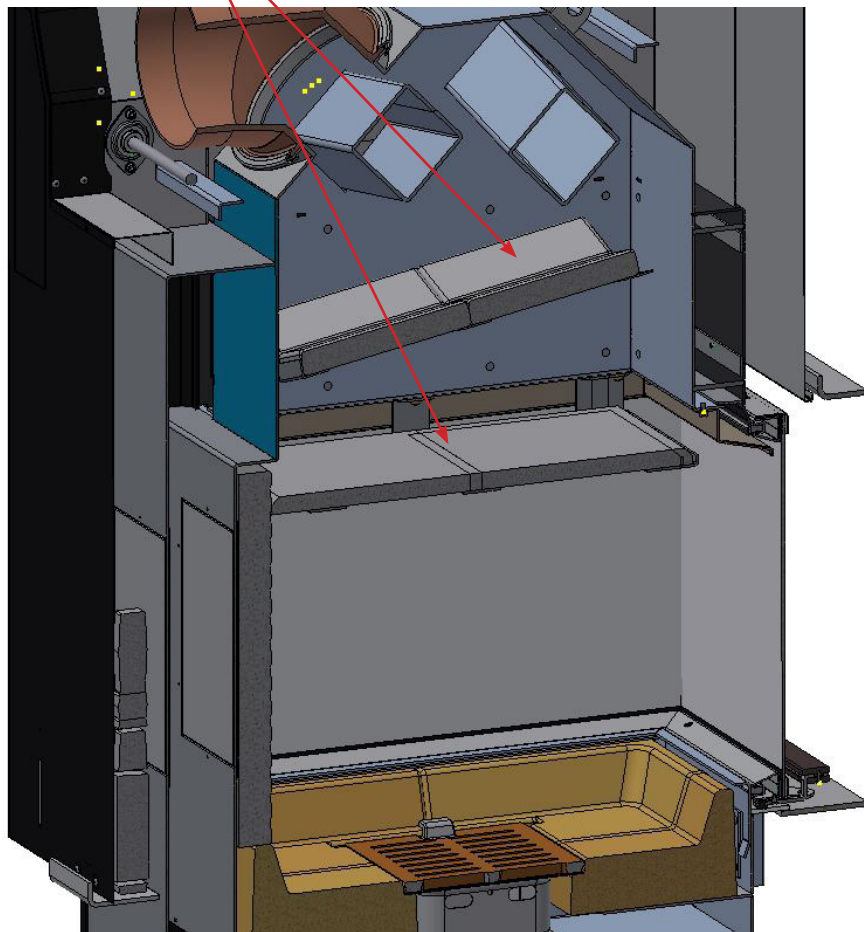
REMEMBER!

- Never remove all the ashes from the combustion chamber
- wood burns best on a layer of ash approx. 20 mm.

Cleaning the flue

In order to gain access to the smoke flue, remove the 6 baffle plates made of vermiculite.

Vermiculite baffle plates



Remove dirt and dust, and mount the parts in reverse order.

PLEASE NOTE!

Be careful when replacing the baffle plates.

Interruptions of operations

Smoke spillage around the door

This may be due to insufficient draft in the chimney <12Pa

- Check whether the flue or chimney is blocked
- Check whether the extraction hood is switched on and, if so, switch it off and open a window / door near the stove for a short period.

Soot on glass

May be caused by

- excessively wet firewood
- the damper regulation is too low

Ensure the proper heating of the stove when firing up, prior to closing the door

Stove is burning too strong

Possible causes

- leak around the door seal
- chimney draft too large > 22 Pa, draft control regulator should be installed.

Stove is burning too weakly

Possible causes

- insufficient amount of wood
- insufficient air supply for room ventilation
- unclean smoke channels
- leaky chimney
- leakage between chimney and flue

Low draught in the chimney

Possible causes

- temperature difference too small, e.g. due to poorly insulated chimney
- outside temperature is high, e.g. in the summer
- no wind
- the chimney is too low and sheltered
- false air draught in the chimney
- chimney and flue pipe is blocked
- the house is too dense (lack of fresh air intake).
- negative smoke extraction (poor draft conditions)

In the case of a cold chimney or difficult weather conditions you can compensate by adding more air to the stove than usual.

If your stove continues to malfunction, we recommend that you contact your RAIS distributor or chimney sweep.

WARNING!

If incorrect, or too damp firewood is used, it can lead to excessive formation of soot in the chimney and, possibly a chimney fire:

- In this case, shut off for all air supply to the stove. If the system has a valve connection - air connection from the outside, it must also be closed.
- call the fire department
- never **use** water to put out the fire!
- Afterwards, you should ask your chimney sweep to check the stove and chimney

IMPORTANT!

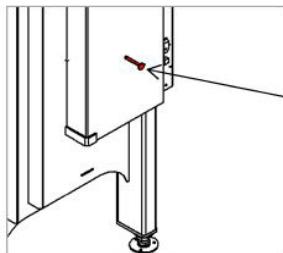
- to ensure safe burning, there must be clear yellow flames or clear embers
- the firewood should not be smouldering.

If the firewood is only burning slowly without flames or is smoking, and too little air is added, unburned fumes will develop. Flue gasses can ignite and explode. It can cause damage to equipment and possible human injury.

Never **close** the air supply completely when lighting the stove.

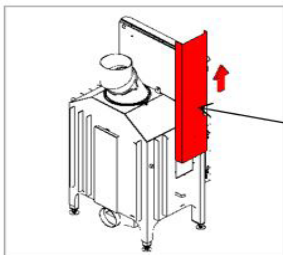
Conversion to a self-closing door before the oven is built in.

The door is made self-closing by dismantling some of the door's counterweights. On VISIO 1 & 3, the counterweight is changed on both sides.



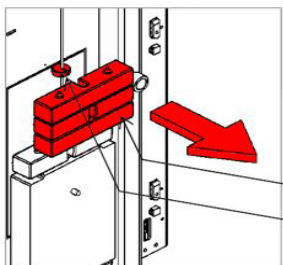
1. Remove the transport safety and tighten the screws to the counterweight cover

Transport safety.



2. Remove the counterweight cover by pulling it up.

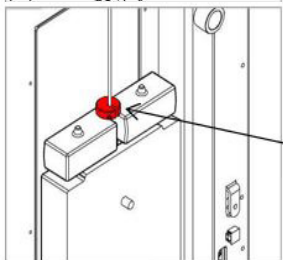
Counterweight cover.



3. Unscrew the retaining ring (Allen key 2.5mm). Remove the required number of counterweights, so that the door closes slowly and at a constant speed. Check its operation.

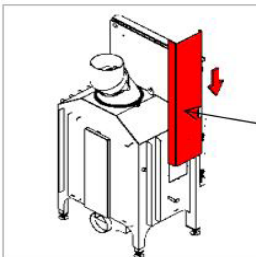
Counterweights

Retaining ring



4. Tighten the retaining ring (Allen key 2.5mm)

Retaining ring

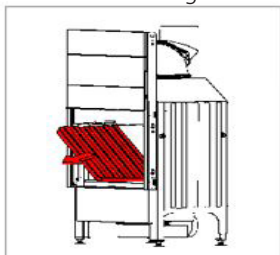


5. Attach the counterweight cover and screw in the screw(s).

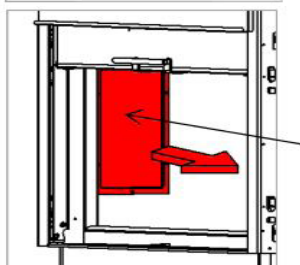
Counterweight cover.

Conversion to self-closing door after the stove has been fitted.

The door is made self-closing by dismantling some of the door's counterweights. On VISIO 1 & 3, the counterweight is changed on both sides.

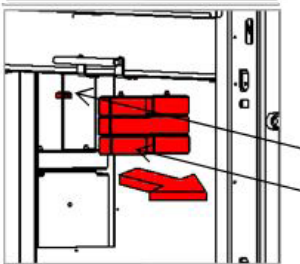


1. Remove the Side Skamol sheet.



2. Remove the access panel.

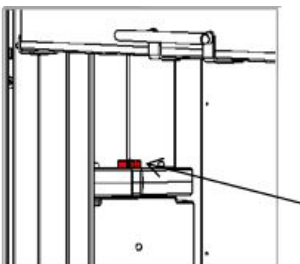
Access panel.



3. Unscrew the retaining ring (Allen key 2.5mm). Remove the required number of counterweights, so that the door closes slowly and at a constant speed. Check its operation.

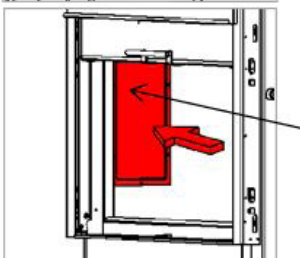
Retaining ring.

Counterweights.



4. Tighten the retaining ring (Allen key 2.5mm)

Retaining ring.



5. Refit the access panel and side Skamol sheet.

Access panel.

Accessories

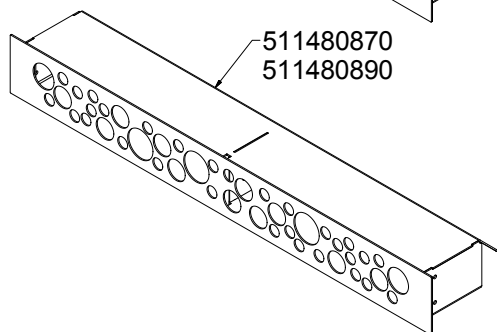
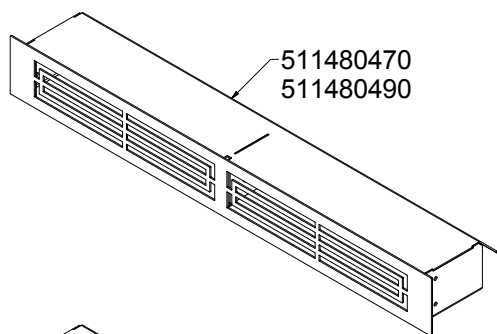
Airkit No. 31
air supply via floor

00065173190

Convection grille - front

511480470 - white
511480490 - black

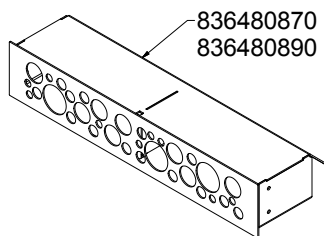
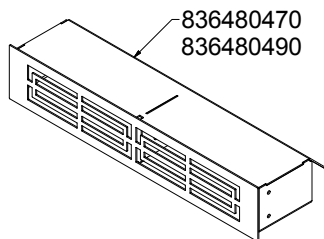
511480870 - white
511480890 - black



Convection grates - side

836480470 - white
836480490 - black

836480870 - white
836480890 - black



Spare parts VISIO 3-1 NS model

The use of spare parts other than those recommended by RAIS results in the warranty becoming void.

All replaceable parts can be purchased as spare parts from your RAIS distributor.

See the parts drawing (in front of the manual).

Pos.	Description.
1	Handle for damper - complete
2	Damper - complete
3	Door Handle
4	Cold handle - complete
5	List left side - Painted
6	List left side - Stainless
7	List right side - Painted
8	List right side - Stainless
9	List front top - Painted
10	List front top - Stainless
11	List front bottom - Painted
12	List front bottom - Stainless
13	Front glass
14	Left side glass
15	Right side glass
16	Schamotte Visio 3-1
17	Wall skamol Visio 3-1
18	Air concentrator plate
19	Rubber Air restrictor

Spare parts VISIO 3-1 DIN+ model

The use of spare parts other than those recommended by RAIS results in the warranty becoming void.

All replaceable parts can be purchased as spare parts from your RAIS distributor.

See the parts drawing (in front of the manual).

Pos.	Description.
-------------	---------------------

- | | |
|----|-------------------------------|
| 1 | Handle for damper - complete |
| 2 | Damper - complete |
| 3 | Door Handle |
| 4 | Cold handle - complete |
| 5 | List left side - Painted |
| 6 | List left side - Stainless |
| 7 | List right side - Painted |
| 8 | List right side - Stainless |
| 9 | List front top - Painted |
| 10 | List front top - Stainless |
| 11 | List front bottom - Painted |
| 12 | List front bottom - Stainless |
| 13 | Front glass |
| 14 | Left side glass |
| 15 | Right side glass |
| 16 | Schamotte Visio 3-1 |
| 17 | Wall skamol Visio 3-1 |



DECLARATION OF PERFORMANCE

Regulation (EU) 305/2011 No. 0001 — CPR-2013/07/01

No.: 123

1. **Unique identification code of the product-type** RAIS VISIO 3-1 ATTIKA VISIO 3-1
2. **Type** Inset appliance burning solid fuel without hot water supply
VISIO 3-1 3 glass model
3. **Intended use** Domestic room heater
4. **Manufacturer** RAIS A/S Telephone +45 98 47 90 33
Industrivej 20, Vangen Telefax +45 98 47 92 91
DK-9900 Frederikshavn, Webmail kundeservice@rais.dk
Denmark Homepage www.rais.com
5. **Authorised representative** n/a
6. **System of assessment** System 3
AVCP
7. **Notified body** The notified laboratory *Danish Technological Institute - Identification no. 1235*
Teknologiparken, Kongsvang Allé 29, DK-8000 Århus C
performed the determination of the product type on the basis of type testing under system 3 and issued test report
a. 300-ELAB-2287-EN

8. **Declared performance** Harmonized technical specification: EN 13229:2001/A2:2004/AC:2007

Essential characteristics	Performance	
Fire safety	<ul style="list-style-type: none">Insulated flue50 mm Scamotec 225 non-combustible panel board	
Reaction to fire	A1	Visio 3-1
Distance to combustible materials	rear	50
Minimum distances [mm]	sides	700
For other installation or wall settings see instruction manual	ceiling	420
	Front	700
	Floor	375
Risk of burning fuel falling out	Pass	
CO-emission of combustion products	0.0744 %	
Surface temperature	Pass	
Electrical safety	Pass	
Cleanability	Pass	
Maximum operating pressure	- bar	
Flue gas temperature T at nominal heat output	238 °C	
Mechanical resistance (to carry a chimney/flue)	NPD	
Thermal output		
Nominal heat output	10 kW	
Room heating output	10 kW	
Water heating output	- kW	
Energy efficiency η	80 %	

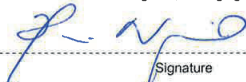
9. **The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.**
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Henrik Nørgaard, Managing Director

Place FREDERIKSHAVN, DENMARK

Date 25-10-2017


Signature



attika[®]
FEUERKULTUR

ATTIKA FEUER AG

Brunnmatt 16
CH-6330 Cham
Switzerland
www.attika.ch

RAIS[®]
ART OF  FIRE

RAIS A/S

Industrivej 20
DK-9900 Frederikshavn
Denmark
www.rais.dk