## Jøtul F 520 UKCA

# Jøtul F 520 UKCA Manual Version P01

**UKCA** Information

2

UK - Installation and operating instructions



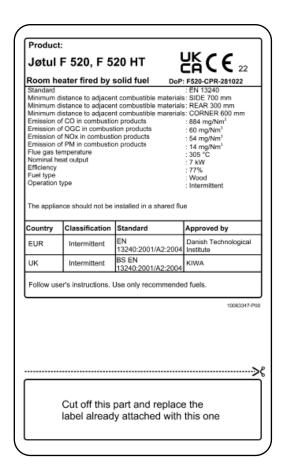




Attention! Use this approval label when the stoves has been installed (only for UK). Cut off the bottom part and replace the label already attached with this one.

It is important that the lot + pin number is viewable.

Note: An approved CO monitor should be installed in the same room as the appliance.



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Register your fireplace at jotul.com for a 25-year warranty.

# Product: Jordal Standard Standard Standard to adjacent combustation underside. Standard Manuscraphic Action of the Combustation underside. Allways quote this serial number when contacting your retailer or Jøtul. Standard Manuscraphic Action of the Combustation underside. Manuscraphic Action of Manuscraphic Action of the Combustation underside. Notacy Combustation underside the Combustation underside underside. Allways quote this serial number when contacting your retailer or Jøtul. Follows are interested for the Combustation underside underside. Notacy Com

## 1.0 Relationship to the authorities

- Installation of a fireplace must be carried out in compliance with national laws and regulations. All local ordinances, including those that refer to national and European standards, must be complied with when products are installed.
- The installation can only be put into use after it has been checked by a qualified inspector.
- Contact your local building authorities before installing a new fireplace.

#### 2.0 Technical data

Material:Cast ironFinish:PaintSmoke outlet:TopFlue pipe dimension:Ø 150 mmOutside air connection:Ø80 / Ø100 mm

Weight:

Jøtul F 520: 170 kg Jøtul F 520 + Jøtul f 520 High Top: 201 kg

Optional extras Cover for outside air

through base

Product dimensions, distances: See Fig. 1

#### Technical data in acc. with BS EN 13240

Nominal heat output: 7,0 kW Flue gas volume: 7,1 g/s Chimney draught, EN 13240: 12 Pa

Recommended negative pressure

Air consumption: 6,0 litre/sec or 21,6 m<sup>3</sup>/h

Chimney temperature, EN 13240: 305 °C

Dust: 14 mg/Nm<sup>3</sup>@13%O<sub>2</sub>

Type of fuel: Wood

Max. log length: 30 - 50 cm

Fuel consumption: 2,3 kg/h

Max. kindling amount: 3,4 kg

Nominal kindling amount: 1,7 kg in 2 - 3 pieces

Operation: Intermittent

Intermittent combustion here means normal use of a fireplace, i.e. add more fuel as soon as the fire has burned down to embers.

#### 3.0 Safety

NB! To guarantee optimal performance and safety, Jøtul recommends that its stoves are fitted by a qualified installer (see www.jotul.com for a complete list of dealers).

Any modifications to the product by the distributor, installer or consumer may result in the product and safety features not functioning as intended. The same applies to the installation of accessories or optional extras not supplied by Jøtul. This may also be the case if parts that are essential to the functioning and safety of the fireplace have been disassembled or removed.

In all these cases, the manufacturer is not responsible or liable for the product and the right to make a complaint becomes null and void.

**NB:** Parts of the stove, in particular, the external surfaces, get hot during combustion! Exercise caution!

#### 3.1 Fire Prevention Measures

There is a certain element of danger every time you use your fireplace. The following instructions must therefore be followed:

- The minimum safety distances when installing and using the fireplace are given in **fig. 1**.
- Ensure that furniture and other flammable materials are not too close to the fireplace. Flammable materials should not be placed within 900 mm of the fireplace.
- Allow the fire to burn out. Never extinguish the flames with water.
- The fireplace becomes hot when lit and may cause burns if touched.
- Only remove ash when the fireplace is cold. Ash can contain hot embers and should therefore be placed in a non-flammable container.
- Ash should be placed outdoors or be emptied in a place where it will not present a potential fire hazard.

#### In case of chimney fire:

- Close all hatches and vents.
- · Keep the firebox door closed.
- · Check the loft and cellar for smoke.
- · Call the fire service.
- Before use after a fire an expert must check the fireplace and the chimney in order to ensure that it is fully functional.

#### Steel chimney

If a top-mounted steel chimney is used, fit an uninsulated pipe from the burn chamber to approx. 10 mm over the top grate. Make sure that the gasket is properly seated between the flue pipe and the smoke outlet. Then fit the steel chimney in accordance with the chimney supplier's installation instructions.

#### 3.2 Floor

#### **Foundation**

You need to make sure the foundation is suitable for a fireplace. See "2.0 Technical Data" for specified weight.

We recommend the removal of any flooring that is not attached to the foundation ("floating floors") beneath the installation.

Jøtul recommends that any flooring made of combustible material, such as linoleum, carpets, etc. should be removed from under the floor plate.

# Requirements for protection of inflammable floors in front of the fireplace

The front plate must comply with national laws and regulations. Contact your local building authorities regarding restrictions and installation requirements.

#### 3.3 Walls

Distance to walls made of combustible material - see fig. 1a

Distance to combustible wall protected by firewall: See fig. 1b.

The fireplace may be used with an uninsulated flue pipe provided the distances between the fireplace and walls made of combustible materials are as shown in **fig. 1a**. Alternative distances with shielded or insulated flue pipe are also displayed in fig. 1b.

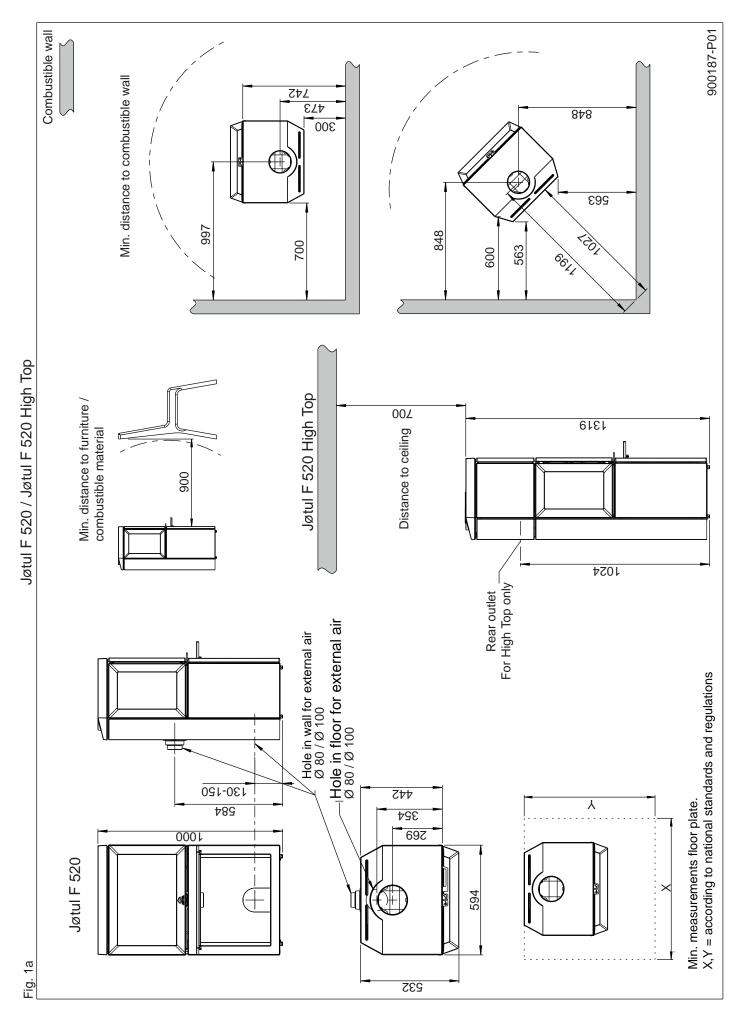
**NB:** Place the product in such a way that it is possible to clean the stove, the flue pipe and the chimney passage.

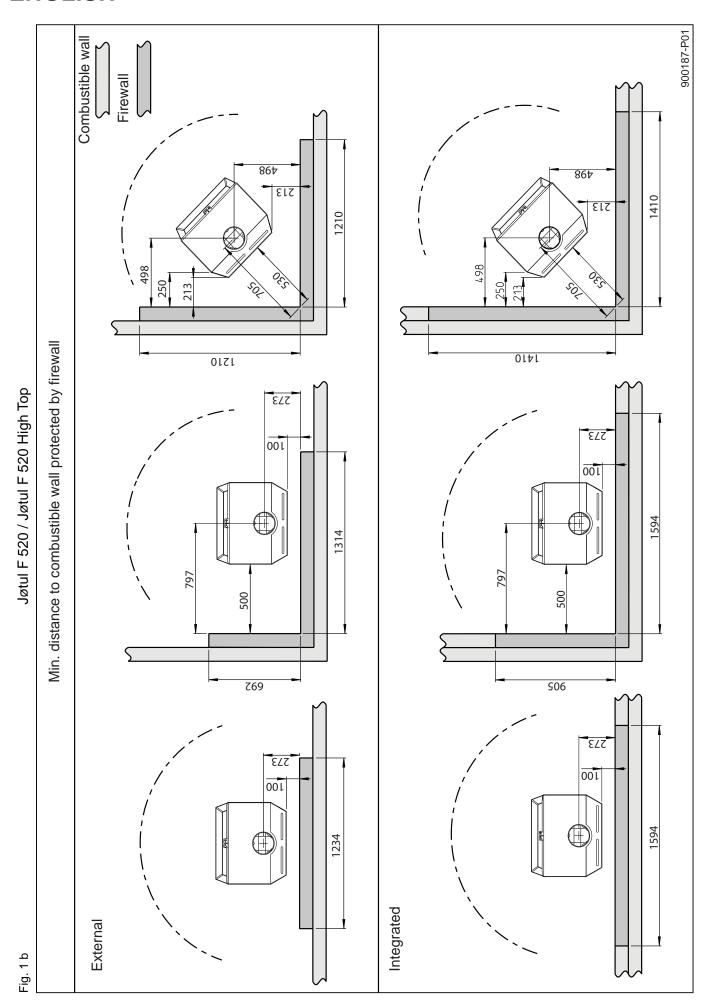
Note! Ensure that furniture and other flammable materials are not too close to the fireplace. Flammable materials should not be placed within 900 mm of the fireplace.

**NB:** Make sure that furniture and other household items are not so close as to get dried up by the stove.

#### 3.4 Ceiling

The fireplace can be fitted with the top edge of the hot air opening of the surround at least 750 mm below a ceiling of inflammable material.





#### Fresh air supply

The air used for combustion in any well-insulated house needs to be replaced. This is particularly important in houses with mechanical ventilation. Such replacement air can be procured in several ways. The most important thing is to supply the air to the room where the stove is placed. Place the outside wall valve as close to the stove as possible and make sure that it can be closed when the stove is not in use.

For the fresh air supply connection, follow the national and local building regulations.

#### **Closed combustion system**

Use the stove's closed combustion system if you live in recently built, airtight dwellings. Connect the external combustion air through a ventilation pipe through the wall or the floor.

#### Air supply

The amount of combustion air for Jøtul's products is approximately 20-40  $\,\mathrm{m}^3/\mathrm{h}$ . The outside air connection may be fitted directly to the Jøtul F 520 through:

- · the bottom/rear
- through a flexible supply hose from the outside/chimney (only if the chimney has its own duct for external air) and to the product's outside air connector.

Fig. 2A, through an outside wall

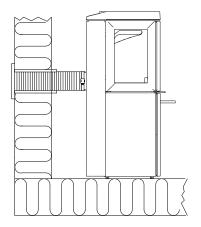


Fig. 2B, through the floor and ground plate

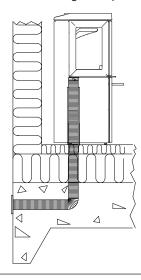


Fig. 2C, through the floor and basement

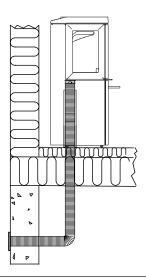
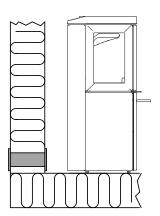


Fig. 2D, indirectly through an outside wall



#### 4.0 Installation

**NB:** Check that the fireplace is undamaged before installation begins.

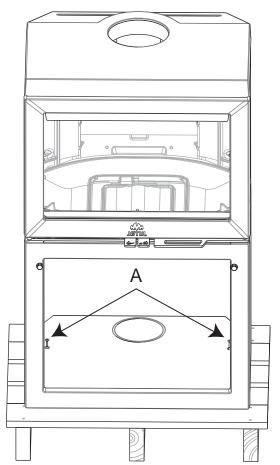
NB: The product is heavy! Ensure you have help when positioning and installing it. Make sure the product does not topple over.

**NB:** Do not place anything on the top plate of the stove as this could cause permanent damage to the paint.

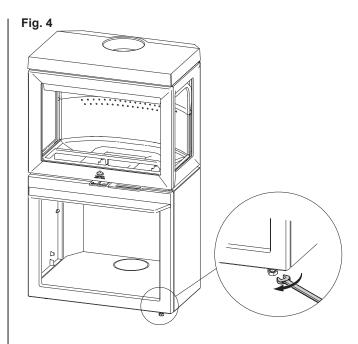
**NB:** Read the Installation and Operating instructions carefully before installing the fireplace!

#### 4.1 Prior to installation - Jøtul F 520

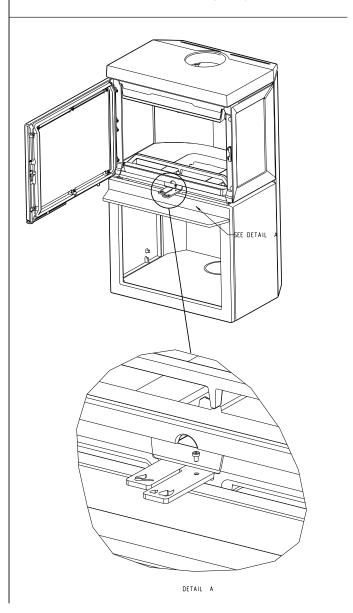
Fig. 3



- 1. Remove the two transport screws **(A)** that fasten the stove to the wooden pallet.
- 2. Leave the stove standing on the transport pallet.
- 3. Check that the control lever (B) moves easily.

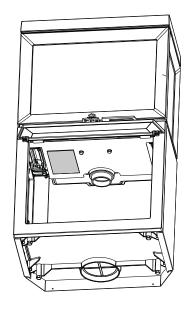


- 4. Lift the stove from the pallet.
- 5. Set up the stove and adjust using a cap wrench to a horizontal position with the 4 height adjustment screws



#### **Approval label**

Fig. 5

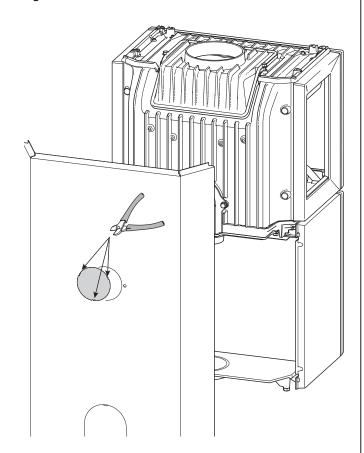


## 4.2 Outside air connection through the base

#### Through a rear outlet

Jøtul F 520 is delivered with air inlet mounted underneath the product. If needed, the air inlet may be mounted in the rear of the product.

Fig. 6



• Use a cutting pliar and cut along the knock-out holes.

#### Alternative through a rear outlet

Fig. 6b

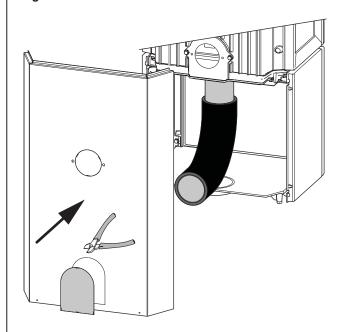
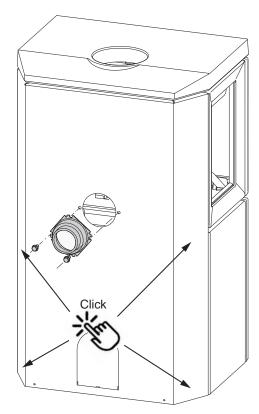
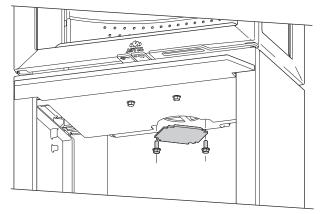


Fig. 7



- Move the air intake connector from underneath the oven to the back of the oven
- For fastening Ø 80 / Ø100 fresh air intake tube (optional equipment item no. 51047509 / 51012164), see the manual (item no. 10047508) accompanying the external air set. See the installation instructions that follow with the external air set. Attach the hose to the external air connector with a hose clip to avoid using joints. The external air hose insulation ends approx. **100 mm** below the burn chamber.

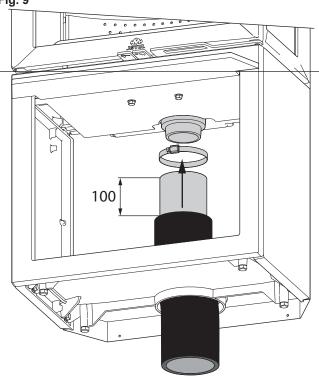
Fig. 8



Then install the cover for outdoor air inlet underneath of the oven

#### Through the floor

Fig. 9



- Use a heavy mallet and strike hard in the middle of the knockout
- Pull a flexible hose through the floor and up to the air intake connector.
- Then attach the flexible hose to the air intake connector with a hose clamp
- For fastening Ø80 / Ø100 fresh air intake tube (optional equipment item no. 51047509 / 51012164), see the manual (item no. 10047508) accompanying the external air set. See the installation instructions that follow with the external air set. Attach the hose to the external air connector with a hose clip to avoid using joints. The external air hose insulation ends approx. 100 mm below the burn chamber.

#### 4.4 Chimney and flue pipe

- The fireplace must only be connected to a chimney and flue pipe approved for solid fuel fireplaces with flue gas temperatures as specified in «2.0 Technical Data».
- Several solid fuel stoves can be connected to the same chimney system if the chimney cross section is adequate.
   NB: Look into the applicable rules and regulations to find out what is permitted. Even a good chimney can function poorly if it is used incorrectly.
- The cross-section of the chimney must be designed to fit the fireplace. Use **«2.0 Technical Data»** to calculate the correct chimney cross-section.
- The chimney must be connected in accordance with the installation instructions of the chimney supplier.
- Before a hole is made in the chimney, the product should be test-mounted in order to correctly mark the position of the fireplace and the hole in the chimney. See fig. 1 for minimum dimensions.
- Make sure that the flue pipe rises all the way up to the chimney.
- With a rear outlet, use a flue pipe bend with a sweep hatch to allow sweeping.
- Please note that it is extremely important for connections to have a degree of flexibility. This is to prevent any movement in the installation leading to the formation of cracks.
- For recommended chimney draught, see «2.0 Technical Data». For flue pipe dimension see "2.0 Technical Data".
   NB: The chimney's diameter must be at least just as big as the flue pipe.

**NB!** The minimum recommended chimney length is 3.5 m from the flue pipe insert. If the draught is too strong, a flue pipe damper can be installed and used to reduce the draught.

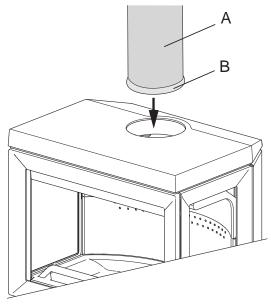
### Operation under different weather conditions

The effect of the wind on the chimney may have a significant impact on how the stove reacts under different gust loads. It may be necessary to adjust the air supply to achieve good combustion.

#### 4.5 Fitting a flue pipe with a top outlet

The product is supplied from the factory with the smoke outlet fitted for the top outlet.

Fig. 10

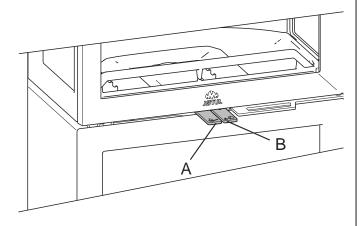


- 1. Thread the flue pipe **(A)** through the top plate and place it in the top smoke outlet.
- 2. Seal well with a gasket (B).

#### 4.5 Performance check

Always check the control handles once the product has been assembled. These should move easily and work in a satisfactory manner.

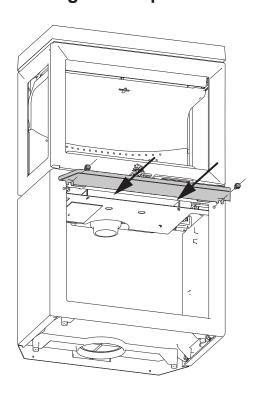
Fig. 11



The Jøtul F 520 is equipped with the following operating options:

 Pull out the ignition vent (A) the air vent (B) automatically follows.

#### 4.6 Mounting of ash lip



#### 5.0 Daily use

## Odours when using the fireplace for the first time

When the fireplace is used for the first time, it may emit an irritating gas which may smell slightly. This happens because the paint dries. The gas is not toxic but the room should be thoroughly ventilated. Let the fire burn with a high draught until all traces of the gas have disappeared and no smoke or odours can be detected.

#### **Heating advice**

**NB:** Logs that have been stored outdoors or in a cold room should be brought indoors 24 hours before use to bring them up to room temperature.

There are various ways of heating the stove but it is always important to be careful about what you put in the stove. See the section on "Wood quality".

**Important!** An inadequate air supply can lead to poor combustion, high emissions and a lower level of efficiency.

#### **Wood quality**

By quality wood we mean most well-known types of wood such as birch, spruce and pine.

The logs should be dried so that the moisture content is no more than 20%.

To achieve this, the logs should be cut during the late winter. They should be split and stacked in a way that ensures good ventilation. The wood stacks should be covered to protect the logs from rain. The logs should be brought indoors during early autumn and stacked/stored for use in the coming winter.

Be especially careful never to use the following materials as fuel in your fireplace:

- Household rubbish, plastic bags, etc.
- Painted or impregnated timber (which is extremely toxic).
- Laminated wooden planks.
- Driftwood

These may harm the product and are also pollutants.

N.B: Never use petrol, paraffin, methylated spirit or similar liquids to light the fire. You may cause serious injury to yourself and damage to the product.

#### Kindling (finely split wood):

Length: Max. 30 - 50 cm Diameter: 6-10 cm

Quantity required each time: 3 pieces (0,6 - 0,8 kg) and

10 - 12 pieces with a total

weight about 1 kg

#### Wood (split wood):

30 - 50 cm Recommended length:

Quantity required each time: 2 or 3 logs weighing 0.7 kg i.e. 1.5-2.0 kg each time each,

Interval for adding wood: Approx. every 50 minutes

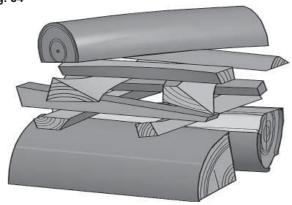
Quantity required each time: 2 - 3 Max. each time: 2,3 kg

Nominal heat output is achieved when the air vent is open approx. 40% - 70%, and the ignition vent is open approx. 0% - 50%.

#### **Initial lighting**

Open the air vent and ignition vent by pulling the handles all the way out. (Use a glove or something similar to protect your hand in case the handles are hot.).

Fig. 34

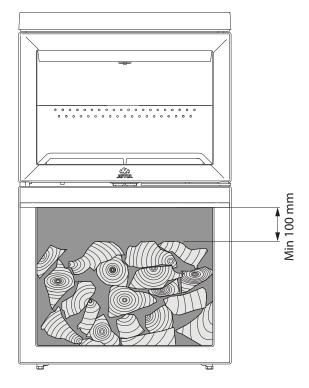


- Place two logs at the bottom of the burn chamber and pile the kindling in layers.
- Finally, place a medium-sized log on the top of the pile.
- Place 2 or 3 briquettes or kindling sticks under the top layer of kindling and light the fire. N.B: The maximum height of the pile of the wood should be just below the horizontal holes. The holes must not be covered.
- You can then regulate the rate of combustion to give the heat you want by adjusting the air vent (fig. 11).
- Check that the afterburning (secondary combustion) starts. This is best indicated by yellow, flickering flames in front of the holes under the baffle.
- If the air flow is normal you will be able to shut the door and the fire will take care of itself.

#### Adding firewood

Stoke the stove frequently but only add small amounts of fuel at a time. If the stove is filled too full, the heat created may cause extreme stress in the chimney. Add fuel to the fire in moderation. Avoid smouldering fires as this produces the most pollution. The fire is best when it is burning well and the smoke from the chimney is almost invisible.

#### Stacking wood



The wood must not be stacked higher than 100 mm from the bottom of the burn chamber.

#### 5.1 Danger of overheating

#### The fireplace must never be used in a manner that causes overheating

Overheating occurs when there is too much fuel and/or too much air so that too much heat develops. A sure sign of overheating is when parts of the fireplace glow red. If this happens, reduce the air vent opening immediately.

Seek professional advice if you suspect that the chimney is not drawing properly (too much/too little draught). For further information, see «4.0 Installation» (Chimney and flue pipe).

#### 5.2 Ash removal

- Only remove ash when the fireplace is cold.
- Use a scoop or similar to remove the ash through the door.

Always leave some ash as a protective layer on the bottom of the fireplace.

#### 6.0 Maintenance

#### 6.1 Cleaning the glass

The product is equipped with an air wash for the glass. Air is sucked in through the air vent on the top of the product and down along the inside of the glass.

However, some soot will always stick to the glass, but the quantity will depend on the local draught conditions and adjustment of the air vent. Most of the soot layer will normally be burned off when the air vent is opened all the way and a fire is burning briskly in the fireplace.

**Good advice!** For normal cleaning, moisten a paper towel with warm water and add some ash from the burn chamber. Rub it over the glass and then clean the glass with clean water. Dry well. If it is necessary to clean the glass more thoroughly we recommend using a glass cleaner (follow the instructions on the bottle).

#### 6.2 Cleaning and soot removal

Soot deposits may build up on the internal surfaces of the fireplace during use. Soot is a good insulator and will therefore reduce the fireplace's heat output. If soot deposits accumulate when using the product, they can easily be removed by using a soot remover.

In order to prevent a water and tar layer from forming in the fireplace, you should regularly allow the fire to burn hot in order to remove the layer. An annual internal cleaning is necessary to get the best heating effect from your product. It is a good idea to do this when cleaning the chimney and flue pipes.

## 6.3 Sweeping flue pipes to the chimney

Flue pipes must be swept through the flue pipe sweeping hatch or through the door opening. The baffle and exhaust deflector must be removed first.

#### 6.4 Inspection of the fireplace

Jøtul recommends that you carefully inspect your fireplace yourself after it has been swept/cleaned. Check all visible surfaces for cracks. Also check that all joints are sealed and that the gaskets are in the correct position. Any gaskets showing signs of wear or deformation must be replaced.

Thoroughly clean the gasket grooves, apply ceramic glue (available from your local Jøtul dealer) and press the gasket well into place. The joint will dry quickly.

#### 6.5 Exterior maintenance

Painted products may change colour after several years' usage. The surface should be cleaned and brushed free of any loose particles before new paint is applied.

**Enamelled products** must only be cleaned with a clean, dry cloth. Do not use water and soap. Any stains can be removed with a cleaning fluid *(oven cleaner etc.)*.

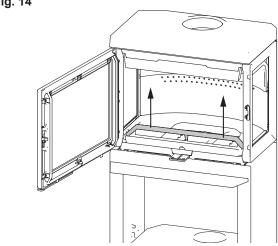
#### 7.0 Servicing

Warning! Any unauthorised changes to the product are illegal! Only original spare parts may be used!

## 7.1 Service/replacing parts in the burn chamber

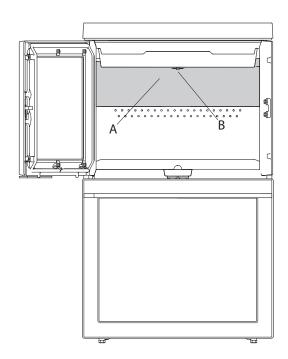
**NB:** Use tools with great care! The vermiculite plates may be damaged if treated roughly.

Fig. 14



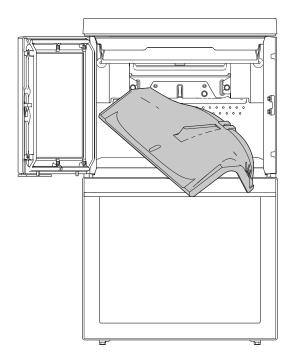
1. First remove the log retainer

Fig. 15



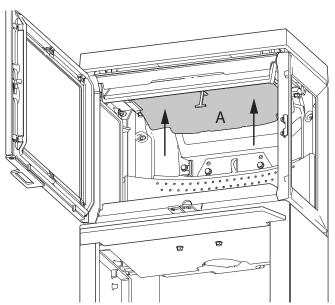
2. First lift the baffle (A) up. Turn the key (B) 90° and then remove the key. Pull the back edge of the baffle down.

Fig. 16



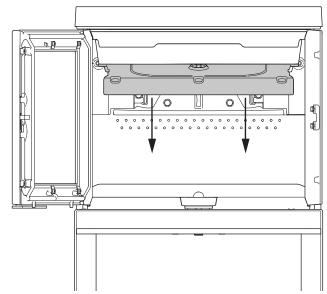
3. Turn one corner towards you and pull it out sideways.

Fig. 17



4. Then remove the exhaust deflector (A) by raising it slightly to begin with. Then push the exhaust deflector backwards.

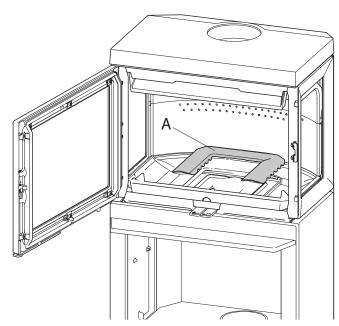
Fig. 18



- 5. Lower the exhaust deflector and lift it out.
- 6. When refitting, follow the same procedure in reverse order.

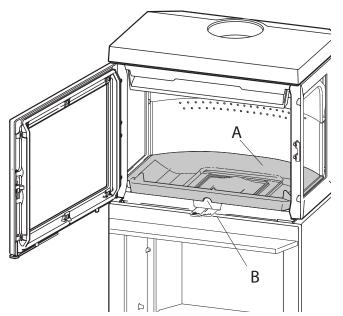
## 7.2 Replacing the air duct and inner bottom

Fig. 19



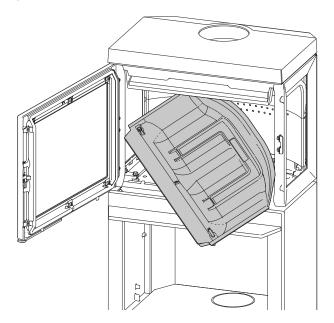
1. Lift the air duct (A) up and remove it.

Fig. 20



2. Take hold of the hole **(B)** at the front edge of the inner bottom **(A)** and lift it up.

Fig. 21

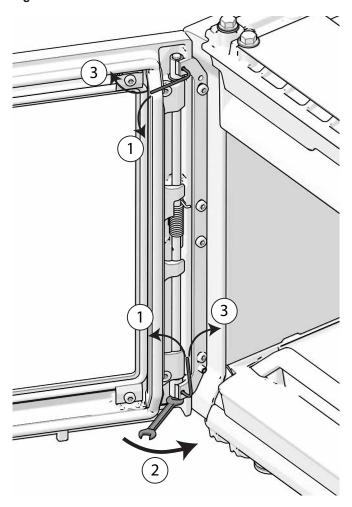


- 3. Turn one corner towards you and pull the inner bottom out.
- 4. When refitting, follow the same procedure in reverse order.

#### 7.3 Self-closing door

By making this change, you make the door self-closing.

Fig. 22



- 1. Loosen the two Allen screws.
- 2. Tighten the screw on the underside.
- 3. Tighten the Allen screw again.

NB! This operation must be preformed several times to achieve the desired effect.

# 8.0 Operational problems - troubleshooting

#### Poor draught

Check the length of the chimney and that it complies with national laws and regulations. (See also **«2.0 Technical data»**). Make sure that the minimum cross section on the chimney is according to **«2.0 Technical data»** in the installation manual. Make sure that there is not anything preventing the smoke gasses from escaping: branches, trees, etc.

Upon suspicion of excessive/poor draught in the chimney, seek professional help for measurement and adjustment.

#### The fire extinguishes after a while

- · Make sure that the firewood is sufficiently dry.
- Find out whether there is negative pressure in the house, close mechanical fans and open a window close to the fireplace.
- · Check that the air vent is open.
- · Check that the flue outlet is not clogged by soot.

## Unusual amount of soot accumulates on the glass

Some soot will always stick to the glass, but the quantity depends on:

- Moisture in the fuel.
- · The local draught conditions.
- · Air vent opening.

Most of the soot will normally burn off when the air vent is opened all the way and a fire is burning briskly in the fireplace. (See «6.1 Cleaning the glass».)

#### 9.0 Optional extras

## 9.1 Cover for outside air through the base

Item no. 51049688

#### 9.2 Fresh air intake tube Ø80

Item no. 51047509

#### 9.3 Fresh air intake tube Ø100

Item no. 51012164

#### 9.4 Jøtul F 520 High Top

Item no. 51053360

#### 9.5 Heat storage system

Item no. 10026701

#### 9.6 Door lock, complete, left

For right-hinged door

#### 10.0 Recycling

#### 10.1 Recycling packaging

Your fireplace is delivered with the following packaging:

- A wooden pallet that can be cut up and burned in the fireplace.
- Cardboard packaging that should be taken to a local recycling facility.
- Plastic bags that should be taken to a local recycling facility.

#### 10.2 Recycling the fireplace

The fireplace is made of:

- · Metal that should be taken to a local recycling facility.
- Glass that should be disposed of as hazardous waste.
   The glass in the fireplace must not be placed in a regular source segregation container.
- Vermiculite burn plates that can be disposed of in regular waste containers.

#### 11.0 Guarantee terms

#### 1. Our guarantee covers:

Jøtul AS guarantees that the external cast-iron parts are free from defects in materials or manufacturing at the time of purchase. You may extend the guarantee on the external cast-iron parts to 25 years from the date of delivery by registering the product on jotul.com, and print out the extended guarantee card within three months of purchase. We recommend that the guarantee card be kept together with the receipt. Jøtul AS also guarantees that steel plate parts are free from defects in materials or manufacturing at the time of purchase for a period of 5 years from the date of delivery.

The guarantee applies on the condition that the stove has been installed by a qualified installer in accordance with applicable laws and regulations and Jøtul's installation and operating instructions. Repaired products and replacement items are guaranteed within the original guarantee period.

#### 2. The guarantee does not cover:

- 2.1. Damage to consumables such as burn plates, fire grates, flue baffles, gaskets and similar as these deteriorate over time due to normal wear and tear.
- 2.2. Damage caused as a result of improper maintenance, overheating, use of unsuitable fuel (e.g of unsuitable fuel are, but not limited to driftwood, impregnated wood, plank offcuts, chipboard) or too moist / wet wood.
- 2.3. Installation of optional extras for the purpose of rectifying local draught conditions, air supply or other circumstances beyond Jøtul's control.
- 2.4. Cases involving alterations / modifications to the fireplace without Jøtul's consent or the use of non-original parts.
- 2.5. Damage caused during storage at a distributor, transport from a distributor or during installation.
- Products sold by unauthorized sellers in areas where Jøtul operates a selective distribution system.
- 2.7. Associated cost (e.g.but not limited to, transport, manpower, travel) or indirect damages.

Pellets stoves, glass, stone, concrete, enamel and paint finish (e.g. but not limited to chipping, cracking, bubbling or discolouration and crazing) are applicable to the national legislation governing the sale of consumer goods. This guarantee is valid for purchases made within the territory of the European Economic Area. All guarantee inquiries must be addressed to your local authorized Jøtul dealer within a reasonable amount of time, which shall not be later than 14 days from the date on which the fault or defect first became apparent. See list of importers and dealers on our web site <a href="https://www.jotul.com">www.jotul.com</a>.

If Jøtul is unable to meet the obligations outlined in the above guarantee terms, Jøtul will offer a replacement product with a similar heating capacity free of charge.

Jøtul reserve the right to decline of any replacement of parts or service in the event that the guarantee is not registrated online. This guarantee does not affect any rights under applicable national legislation governing the sale of consumer goods. The national complaint right applies from the purchase date and only in exchange for a receipt / serial number.

Jøtul arbeider kontinuerlig for om mulig å forbedre sine produkter, og vi forbeholder oss retten til å endre spesifikasjoner, farger og utstyr uten nærmere kunngjøring.

Jøtul bemüht sich ständig um die Verbesserung seiner Produkte, deshalb können Spezifikationen, Farben und Zubehör von den Abbildungen und den Beschreibungen in der Broschüre abweichen.

Jøtul pursue a policy of constant product development. Products supplied may therefore differ in specification, colour and type of accessories from those illustrated and described in the brochure.

Jøtul vise sans cesse à améliorer ses produits. C'est pourquoi, il se réserve le droit de modifier les specifications, couleurs et équipements sans avis prélable

#### **Kvalitet**

Jøtuls kvalitetspolitikk skal gi kundene den trygghet og kvalitetsopplevelse som Jøtul har stått for siden bedriftens historie startet i 1853.

#### Qualität

Unsere Qualitätspolitik vermittelt den Kunden ein Gefühl von Sicherheit und Qualität, für das Jøtul mit seiner langjährigen Erfahrung seit der Firmengründung im Jahre 1853 steht.

#### Quality

Our policy gives the customers quality and safety piece of mind as a result of Jøtul's vast experience dating back to when the company first started in 1853.

#### Qualité

Cette politique nous permet d'offrir à nos clients une qualité et une sécurité reposant sur la vaste expérience accumulée par Jøtul depuis sa création en 1853.



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