

morsø



By appointment to The Royal Danish Court

morsø

Instructions for installation and use

8643

AS/NZS 4012/4013 (2014)

Morsø 8643



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MORSØ JERNSTØBERI A/S · DK-7900 NYKØBING MORS
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Enjoy your new Morsø stove!

Morsø, the biggest stove company in the Danish market, has been making wood-burning stoves of the highest quality since 1853. Just follow the instructions below, and we are certain that you will be able to use and enjoy your new stove for many years.

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Read this entire manual before you install and use your new room heater. If this room heater is not properly installed, a house fire may result. To reduce the risk of fire, follow the installation instructions. Failure to follow instructions may result in property damage, bodily injury, or even death.

Contact local building officials about restrictions and installation inspection-requirements in your area.

Save these instructions

Additional accessories

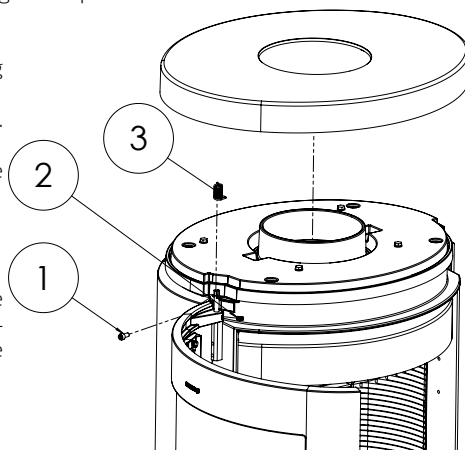
We offer a comprehensive line of chimney, floor plate and accessory products that can facilitate the daily operation and maintenance of your Morsø stove.

1.0 Installing your Morsø stove

1.1 Unpacking the stove

The Morsø 8643 stove weighs 150 kg. In order to avoid damage when unpacking and assembling the stove, we recommend that this job be undertaken by 2 people. Remove the top cover, which is lying loose, before lifting the combustion chamber off the wooden pallet. Place the stove carefully in position, if the stove is to stand on flammable material, place it centrally on a base plate made of steel, glass or other non-flammable material. Before lighting for the first time, check that all the internal parts have been positioned correctly. The oven is packed in packaging that can be reused. This must be disposed of in accordance with national regulations regarding the disposal of waste.

The Morsø 8600 stove is equipped with a so-called “Bauart” door spring. The spring ensures that the stove door automatically closes against the door frame. This allows you to maintain a draft in the chimney. In Germany, this means that the stove is approved for connecting to a chimney to which other wood-burning stoves are already connected. The same requirements do not apply in other European countries. If there is only one stove connected to the chimney, it can be an advantage to remove the spring, to make the stove easier to use.



Removing the spring

To remove the door spring (3), lift off the top plate and remove screw (1). Loosen screw (2). Now the spring (3) can be lifted and removed. Fasten screw (1) again to seal the stove.

1.2 Installing the stove

National and local regulations regarding the installation of wood-burning stoves must be observed, as must local regulations regarding chimney connections and chimney installation. You may want to ask your chimney sweep for advice. However, it is you, your technical adviser or workman, who is responsible for compliance with the applicable national and local regulations.

1.3 Chimney sweep

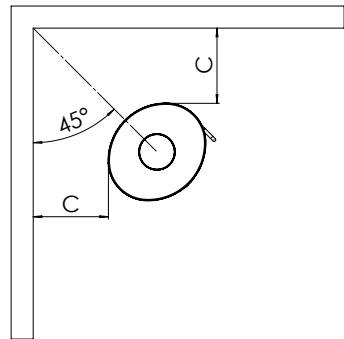
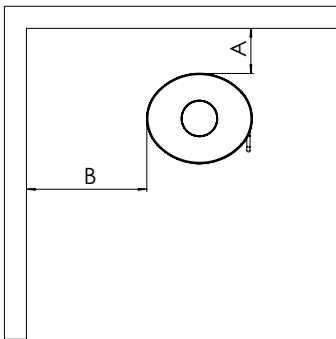
As stated, it may be wise to consult your local chimney sweep before installing the stove. In any event, the chimney sweep must be notified once the wood-burning stove has been installed. The chimney sweep will inspect the installation, and reach an agreement with you regarding sweeping intervals. If your chimney has not been used for some time, it should be inspected for cracks, bird nests, etc., before it is used.

1.4 Location of the stove/distance requirements

Distance requirements apply only if the stove is placed near flammable materials. Your new stove can be positioned as specified on the table below if the walls are made of flammable material.

Minimum distance to combustibile material - Morsø 8643				
Installation	Distance A	Distance B	Distance C	Distance in front of stove
Normal parallel	200 mm	575 mm	-	1150 mm
Corner	-	-	350 mm	

The floorprotector must consist of 6 mm thick compressed board sheets with a thermal resistance of $0,026 \text{ m}^2 \text{ K/W}$ for 6 mm. thickness.



We recommend that the stove be installed at least 10-15 cm from masonry in order to allow heat to circulate and to facilitate the cleaning of the inside and outside of the stove. A layer of wallpaper on a brick wall is normally regarded as non-flammable material.

The floor

If the stove is installed on a flammable floor, national and local regulations must be observed with regard to the size of the heat resisting underlying surface that must cover the floor beneath the stove.

The floor protector (cement fibre or similar) must be installed so that its leading edge is a minimum of 300 mm in front of the appliance base. The floor protector must be a minimum of 750 mm wide x 845 mm deep x 6 mm thick. The floor protector must consist of 6 mm thick cement fibre sheet with a thermal resistance value of $0,026 \text{ m}^2 \text{ K/W}$, for 6 mm thick sheet.

Distance to furniture

We recommend that the stove be installed 1150 mm from furniture, but consideration should also be given to whether furniture, etc., will dry out as a result of its proximity to the stove.

The distance to flammable material in front of the stove is 1150 mm.

A wood-burning stove gets hot when it is fired. Caution must therefore be observed, particularly with regard to children touching the stove.

1.5 The chimney

The Morso 8643 have been tested with a 6" Wildcat Triple Skin Flue Kit. Clearances quoted in the installation instruction can only be used when the Hawkwind Triple Skin Flue Kit or compliant 6" Decromesh Kit is used.

Caution: The appliance and flue system shall be installed in accordance with AS/NZ 2918 and the appropriate requirements of the relevant building code or codes.

Caution: Mixing of appliance or flue system components from different sources or modifying the dimensional specifications of components may result in hazardous conditions. Where such action is considered, the manufacturer should be consulted in the first instance.

Any modification of the appliance that has not been approved in writing by the testing authority is considered to be in breach of the approval granted for compliance with AS/NZ 4103.

If local regulations permit, the stove may be connected to a chimney already serving another fireplace (such as an oil-burning stove or another wood-burning stove). Attention should be paid to any requirements concerning the location of flue pipes if two or more fireplaces are connected to the same chimney.

The wood-burning stove must never be connected to a chimney to which a gas-burning stove is already connected. An efficient, modern stove places great demands on the chimney, so have a chimney sweep check the condition of your chimney.

The aperture of the chimney must comply with national and local regulations. In general, the aperture area should measure at least 175 cm² for wood-burning stoves.

An overly large chimney aperture will mean that too much energy will be required to heat the chimney sufficiently to achieve an acceptable draught. If you have a brick chimney with a large aperture, we recommend that you install an insulating chimney liner of the proper diameter. This will increase the draught, and improve the fuel economy.

There are no requirements with respect to specific chimney heights, but a chimney must be tall enough to provide a good draught, and to ensure that the smoke does not cause any problems. As a general rule, there will be a satisfactory draught if the chimney extends 4 metres above the stove and at least 80 cm above the spine of the roof. If the chimney is located along the side of the house, the top of the chimney should never be lower than the spine of the roof or the highest point on the roof.

Please note that there are often national and local regulations regulating the location of chimneys in houses with thatched roofs. Please see section 1.9 Draught.

The chimney and the flue pipe must be fitted with cleaning doors, which must be at least the same size as the chimney's aperture area.

The chimney must be accessible for external inspection, and it must be possible to access the cleaning doors and the chimney if it is to be cleaned from the top (e.g. steel chimneys).

1.6 Connecting the flue pipe

Lift the upper cast iron top plate off the stove.

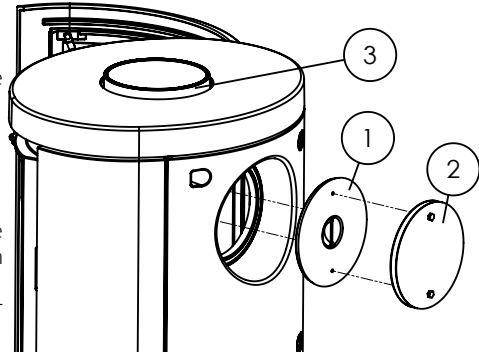
Note: the round cast iron cover plate in the top plate must remain mounted if the stove is being installed with the flue pipe to the rear, but unscrewed from the upper top plate if the flue pipe is being installed pointing upwards.

Mounting the flue collar pointing upwards

From the factory, the stove is prepared for installation with the included flue collar pointing upwards with included screws.

Mounting the flue collar to the rear

If the oven is desired to be fitted with a rear smoke vent, the flue collar(3) will be dismantled from the upper smoke vent. Next, the heat shield assembly (2), which is fastened to the cover (1) that is fitted to the rear smoke vent, will be dismantled. The heat shield assembly shall no longer be applied if the flue collar is to be used in connection with the rear smoke vent. The cover is unscrewed from the combustion chamber and then screwed tightly onto the oven's interior top plate. The two screw holes for the heat shield assembly on the cover will be blinded by the 2 supplied screws. Subsequently, the flue collar (3) will be centred on and screwed onto the rear smoke vent.



The location of the baffle and cast smoke hood

The rear brick and the baffle, which are made from vermiculite, are mounted at the factory. Make sure that the baffle and rear brick stone are correctly assembled before lighting the stove.

Fresh-air connection

From the factory, the oven has been prepared for the fitting of a fresh-air connection, that will facilitate combustion that is independent of the room in which the oven is mounted. The connecting piece for this fresh-air connection, which can be purchased separately, provides the opportunity of a $\varnothing 100$ mm pipe connection – either to the rear or round below.

1.7 Connecting to a brick chimney

Brick a flue bushing securely into the wall, and insert the flue pipe into it. The pipe must not extend into the actual chimney opening, but only to the inside of the chimney aperture. The joints between the stove/pipe and pipe/wall bushing must be sealed with the glass tape provided. It is not normally necessary to seal between any pipe joints.

If the flue pipe transitions from horizontal to vertical, it is a good idea to install it with a gentle bend so as to avoid any loss of draught.

The flue pipe must be dimensioned in accordance with national and local regulations. Morsø recommends, however, that flue pipes be made of 2 mm sheet steel as this will extend the service life.

1.8 Connecting to a steel chimney

If your installation involves routing the chimney straight up through the ceiling, it must comply with national and local regulations concerning the distance of the chimney from flammable ceiling material. The chimney must be sealed at the smoke outlet using the glass tape provided. It is important to install the chimney with a roof support so that the stove does not bear the weight of the chimney. (See the chimney manufacturer's instructions). Heavy weights on the stove's top plate may cause it to crack. The Morsø warranty does not cover the top plate if the chimney is installed without a roof support.

If a chimney fire should occur as a result of incorrect operation of the stove or prolonged use of wet fuel, close the vents completely and contact the fire brigade.

Be aware of the following:

Discuss the cleaning options with your chimney sweep.

If there is insufficient draught in the chimney, it may be a good idea to install the flue pipe straight up so as to minimise smoke migration in the actual combustion chamber.

Avoid having more bends than necessary, and limit the length of the flue pipe so as not to reduce the draught.

Fresh air supply

A wood-burning stove requires air for combustion. As a result, firing a wood-burning stove will help create a healthy climate in your house. If the house is very tightly sealed, and particularly if there is a cooker hood or ventilation system in the house, it may be necessary to install an air grate in the room in which the wood-burning stove is installed. Otherwise there may not be enough draught in the chimney, which may result in the stove not being able to burn properly, and smoke may come out of the stove when the fire door is opened.

If it is necessary to install air grates, they must be positioned so that they cannot be obstructed.

1.9 Draught

If smoke comes out of the stove when the fire door is opened, it will be due to the poor draught in the chimney. This type of stove requires at least 12 Pascals of chimney draught to achieve satisfactory combustion and to prevent smoke from escaping. Smoke may, however, escape in any event if the stove door is opened during vigorous firing, so this should be avoided.

If in doubt, you may want to get your chimney sweep to measure the draught in the chimney.

Draught

The draught in the chimney is the result of the difference between the high temperature in the chimney and the cooler temperature outside. Other factors that determine whether sufficient negative pressure can be produced to create a draught include the length and insulation of the chimney, and wind and weather conditions.

The draught will be reduced when:

- The temperature difference is too low, e.g. in connection with a poorly insulated chimney.

If the chimney is cold, it may help to light (burn up) a rolled-up newspaper in the chimney's cleaning door.

- The outside temperature is too high, e.g. during the summer.
- There is no wind.
- The chimney is not tall enough, with the result that it sits in the lee of the roof surface or tall trees.

These conditions are also associated with the greatest risk of smoke coming back down the chimney.

- Air is entering the chimney in undesired places, e.g. through cracked joints or leaks in the cleaning door or the flue pipe.
- Unsealed, unused fireplaces are connected to the chimney.
- The flue pipe and chimney are clogged up with soot due to inadequate cleaning.
- The house is too tightly sealed (please see the section on Fresh air supply).

A good draught is achieved when:

- There is a big difference between the temperature in the chimney and outside, i.e. when the need for heating is greatest.
- The weather is clear and there is a good wind.
- The chimney is of the proper height, i.e. Minimum 4 metres above the stove, and clear of the spine of the roof.

2.0 Firing/using the stove

Your stove is constructed with air inlets in two places.

Pre-heated, fast-moving combustion air is added to the fire above the glass window, and is regulated using the handle above the door. The combustion air is let in when the handle is pushed to the right, and shut off when the handle is pushed to the left.

Another air inlet provides constant, pre-heated air supply which cannot be adjusted, and which comes into the combustion chamber just above the fire. This helps burn off the last few gasses emitted by the wood while it is being heated.

Fuel Type

Refer to compliance label the stove's rated heat output is 6.5 kW. Your new Morsø stove is AS/NZS-tested for firing with hard wood, and is suitable for intermittent use.

NB!

Wood is a material that contains a great deal of gas (approx. 75%). The gases are released when the wood is lit and heated. For this reason, it is important that these gases are ignited quickly after stoking. If the wood just lies smouldering, especially after re-stoking, a lot of smoke is created which, in the worst case, may cause an explosive ignition of the gases, resulting in damage to the stove.

In order to ignite the gases that are released from the wood, and to keep clear, lasting flames during the combustion process, it is important to let in the required quantity of oxygen (air supply) at all times. The setting of the air supply, the method of ignition and the lighting intervals depend on the draught in the chimney, the wind and weather, the amount of heat required, the fuel, etc. This means that it may take some time before you get to know the correct functioning of the stove under any given circumstances.

Although you can fire your Morsø stove with almost all kinds of wood, you should not fire with wet wood, or unseasoned wood. Wood ought to be stored under a roof for at least 1 year, and preferably 2 years, with free access to wind. Wood should be chopped as soon as possible after felling if it is to dry quickly. The wood can be used once the moisture is less than 20%. During the EN test, all stoves are tested with wood with a moisture content of (16 ± 4)%.

Never use driftwood as it usually has a high salt content, which damages both the stove and the chimney. Impregnated and painted wood and chipboard emit poisonous smoke and fumes so they should not be used as fuel either

Please note that liquid fuel may not be used in the stove.

Pieces of wood with a diameter exceeding 10 cm should always be chopped. The pieces of wood should be short enough to be able to lie flat over the layers of embers, with air at both ends. The maximum length of fuel in the stove is 30 cm. The maximum quantity of fuel is approx. 2 kg/hour (max. 2 pieces of wood each time you re-stoke).

The first few times you light the stove, the fire should be moderate so that the heat-resistant paint can harden before firing more vigorously. During the hardening phase, the paint may develop obnoxious smoke and smell the first time it is lit, which is very normal. Make sure that the room is well ventilated during this period.

When heating up or cooling down, the material is exposed to major temperature differences that may cause the stove to give off creaking sounds.

2.1 Lighting and fuelling intervals

A lot of air is needed when lighting the stove. If you are starting with a cold stove, the door should be left ajar for the first few minutes, and the combustion air supply opened to maximum. Always keep a couple of centimetres of ash in the bottom of the combustion chamber. This will have an insulating effect, and ensures good combustion.

1. We recommend using the “top-down” method to light your wood-burning stove. It is the most environmentally-friendly method of lighting. Use two firelighters and approx. 2,5 kg of dry kindling sticks to quickly create a glowing layer of wood. Place the firelighters directly under the top layer of kindling sticks.



2. Open the air supply as much as possible. This is done using the handle beneath the door. The handle is pushed fully to the right.



3. After the paper/solid alcohol tablets have caught fire, leave the fire door ajar, so that the chimney draws well.



4. When you can see that the chimney is hot enough to draw (after 5 - 10 minutes), close the door. If all the necessary conditions are met, a thick layer of embers will have been formed in the combustion chamber after another 15 - 20 minutes, and there will be a high temperature in the combustion chamber, which is necessary in order to be able to continue the combustion.



5. If the condition in step 4 is met, place 2-3 pieces of firewood with a total weight of 1.5-2.5 kg and a length of 25-35 cm over the embers in no more than 2 layers with a distance of approx. 1 cm between the pieces of wood. Avoid placing the firewood too close to the stove's glass, as this can cause the glass to become sooty



6. Open the air supply to maximum, and open the door slightly to allow in enough air to ignite the wood. This should take 2-3 minutes. Close the door again once the wood has caught fire.



Important!
It is important that the fresh quantity of wood starts to burn quickly. To ensure the fuel lights quickly, open the combustion air to max. or leave the door ajar to allow in the amount of air needed to light the wood.

If, however, the wood only smoulders, there will be a strong build-up of smoke, which at worst can cause an explosive ignition of the flue gases with the risk of material damage and personal injury.

7. Reduce the amount of combustion air to the desired position, and the optimal combustion will continue. Make sure that there is always enough air (oxygen) to maintain clear, lasting flames when, and after, reducing the amount of combustion air. The air controller should have a setting of 40-50% of the maximum to achieve a nominal burn rate.



Make sure that there is always enough air (oxygen) to maintain clear, lasting flames when, and after, reducing the amount of combustion air.

The stoking interval is between 45-75 minutes.

8. Once the fire has been reduced to a thick layer of embers, a new portion of wood can be added by repeating steps 5 & 7.



The stove door should normally be opened gently the first 2-3 cm, then you should wait until the pressure has equalised before opening the door all the way. This technique will prevent smoke from getting out, particularly when there is a poor draught.

The stove door should never be opened when the stove is being fired vigorously.

Once the wood has burned out, it becomes glowing charcoal. If a good layer of embers has already formed on top of a sufficient layer of ash, the stove can keep warm for a very long time, not least due to the favourable qualities of the cast iron.

We would strongly recommend that you do not leave your stove alit at night. It harms the environment and constitutes very poor use of the wood as the gases in the wood do not ignite at the low temperature, but settle as soot (unburned gases) in the chimney and stove. Extreme conditions, such as poor draught in the chimney, large quantities of wood or wet wood, may in the worst-case scenario cause an explosive ignition.

When firing in the summer period, when there is minimal need for heat, the combustion will be poor. The stove provides too much heat so the combustion should be reduced. But always remember to make sure that there are lasting flames until the wood becomes charcoal. If you want a weaker fire, stoke up using less wood.

If you fire the stove using wet wood, a lot of the fuel's thermal energy will be spent forcing the water out of the wood, without releasing any heat to the stove. This incomplete combustion results in a layer of soot being left in the stove, pipe and chimney.

Comparison between firing with wood and oil:

Type of wood (moisture content 20%)	No. of cubic metres per 1000 l oil
Oak	7.0
Beech	7.0
Ash	7.2
Sycamore	7.5
Birch	8.0
Elm	8.9
Common spruce	10.4
Silver fir	10.9

3.0 Routine stove maintenance

3.1 External maintenance

The cast surface of the stove is painted with heat-resistant Senotherm paint. It is best maintained by simply vacuuming it with a soft brush attachment or wiping it down with a dry, dust-free cloth.

If the stove is used too vigorously, the painted surface may assume a greyish tinge over time, but the stove can easily be freshened up with Morsø spray paint, which is available from your local retailer.

Morsø stoves are painted using a Morsø Original Black (previously called Morsø dark grey) or Morsø grey. The paint can be bought in a spray or a can.

3.2 Internal maintenance

Glass window

If the stove is used correctly, very little or no soot will be deposited on the ceramic glass window. If soot does form on the glass as the stove is being lit, it will burn away once normal combustion begins in the stove. If the glass window becomes thoroughly covered in soot due to incorrect operation, the soot can be easily removed using a cleaning agent such as Morsø Glass Cleaner. The glass must be cold when you clean it. Avoid stoking the stove with pieces of wood that are so long that they press against the glass window when the door is closed.

Reasons for sooty glass window:

- The fuel is too wet.
- The pieces of fuel are too big/uncut wood.
- The combustion temperature is too low.

Ceramic glass replacement

Ceramic glass cannot be recycled because it has a higher melting point than ordinary glass. If ceramic glass is mixed with ordinary glass, the raw material is spoiled, and the reclaiming process may be halted. Take care that the ovenproof glass does not end up among ordinary recycled waste. That will be a great benefit to the environment.

Note: Should be handed in to a recycling station as ceramic glass.

Internal cast-iron parts and/or wearing parts

The baffles and other components that come in direct contact with the fire and glowing fuel are all wearing parts. As a result, they will be particularly susceptible to burn-through. When used correctly, these parts will last for many years, but overly vigorous use will naturally accelerate the burn-through. Such parts are all easily replaced. If the baffles are damaged and are not replaced in time, the top plate will be exposed to such high temperatures that it may be damaged as well.

Please note that no unauthorised alterations of the design may be undertaken, and that any parts that are replaced must be replaced with original Morsø parts.

Reasons for overly rapid wear of internal parts

- **Stove fired too vigorously**
- **Use of very dry wood (wood from old furniture).**
- **Too much soot on top of the baffles (please see the section on Cleaning).**
- **Too much ash in the ash pan (please see the section on Ash).**

Gaskets

The gaskets in the doors will wear out over time and should be replaced as required in order to prevent runaway combustion. Use the original Morsø gasket kit.

Note: Normal wearing parts are not covered by Morsø's extended warranty.

A selection of maintenance products (spare parts, glass cleaner, paint, gasket kit, etc.) is available from your Morsø dealer.

3.3 Cleaning the stove

A layer of ash and soot will form as a result of the draught in the chimney and after sweeping, particularly on the top of the upper baffle. This ash will have an insulating effect, which may speed up the burn-through of the baffles.

During normal cleaning, the baffles can be removed from the stove. Once the baffles have been taken out, you can access the flue chamber above the baffles and clean it.

Clean the baffles before reassembling them, and make sure that they are correctly assembled.

Nowadays, the chimney sweep must remove the soot in the stove, in addition to sweeping the chimney and cleaning the flue pipe. The number of annual sweepings/cleanings of the stove should be determined in consultation with your chimney sweep.

Ash

As noted above, there should be a layer of approx. 1 cm insulating ash in the bottom of the combustion chamber in order to achieve a high combustion temperature. If the layer of ash is too thick, it can be brushed down into the ash pan.

Empty the ash pan before it gets completely full so that the ash does not insulate around the grate, and thereby speed up the burn-through.

In most cases, the ash will need to be taken away by the waste disposal company. Because embers may be concealed in the ash pan for several days, it may be necessary to store the ash in a container made of non-flammable material before pouring it into a rubbish bag.

Ash from a wood-burning stove will not be of any benefit to your garden as fertiliser. If you have burned colour brochures, or painted or treated wood, etc., in the stove, the resulting ash must not be poured onto soil as it may contain heavy metals.

We highly recommend lubrication of hinges and closing mechanisms once per year or as needed, not only to ensure smooth functioning and longevity, but also to mitigate wear and tear.

We recommend copper grease as a lubricant or another equally heat-resistant grease.

Spare parts for the 8643

Description

Cast grate
Glass
Vermiculite set

Product no.

34861300
79860100
79860200

Guarantee Product Registration

MORSØ 10 YEAR GUARANTEE CERTIFICATE

Behind every Morsø stove is more than 160 years of dedicated stove design and manufacturing experience. Quality control has always been at the heart of the production process and detailed measures have been put into place at all key stages of the build. Accordingly, provided that the stove has been supplied by an authorised Morsø dealer, Morsø will offer a 10-Year Manufacturers Guarantee against manufacturing defect to any of the main exterior body parts of its stoves.

Morso 8100-8800 wood stove series

Read more about "Morsø 10 years guarantee/product registration card" and

REGISTER your new Morsø stove online:

<https://morsoe.com/en/customer-service>



Stove manufacturer

Address

Phone Number

Morsø Jernstøberi A/S

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IMPORTANT!

How to heat safely for the environment and yourself!

- **Use only dry wood**

Use only dry (max. 20% moisture content) and untreated wood. The fuel must be split and 8 - 12 cm thick.

- **Light**

Light with dry kindling (use 1 - 2 kg). Leave the door ajar and stay close to the stove during the lighting phase.

- **Good layer of embers**

Be certain to have a good layer of embers before refilling. The wood should light within 2 minutes. If the logs do not ignite it may, in an extreme case, cause the flue gases to ignite which may pose a risk to material damage or personal injury.

- **Refuelling**

When refuelling use 2 - 3 pieces of wood - no more than 2 - 2.5 kg.

- **Ensure adequate air**

i.e. clear and yellow flames.

- **Never burn overnight**



By appointment to The Royal Danish Court

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