

morsø



By appointment to The Royal Danish Court

morsø

Instructions for installation and use

3410 & 3440

EN 13240 · 80,1% efficiency



DEFRA approved for use in United Kingdom smoke control areas

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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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Additional accessories

Morsø also offers a comprehensive line of floor plates and accessory products that can facilitate the safe and efficient operation and maintenance of your Morsø stove.

Cast iron

Cast iron is a live material. There are no two ovens that are identical. This is partly due to the tolerances of the casting process, partly because the ovens are a work of craftsmanship. Minor unevennesses may also occur in the cast iron surface.

1.0 Installing your Morsø stove

1.1 Unpacking the stove

3410: After removing the outer packaging, flatten it and lay onto the floor close to the stove; this can then act as protective work surface during the assembly process.

Next, remove the legs and bolts from inside the stove. Gently lay the stove onto its back and unscrew it from the wooden pallet. Using the bolts supplied, now screw the legs into position on the underside of the base. The stove should now be lifted and moved into the upright position, avoiding excess load on the back legs.

3440: Remove the stove from the pallet and place it carefully into the right position.

The stoves are heavy and therefore it is strongly recommended that when lifting, it is undertaken by two people. Morsø 3410 weighs 100 kg, Morsø 3440 weighs 116 kg.

The stove is intended for intermittent use.

1.2 Installing the stove

The stove and chimney installations MUST comply to all current National and Local Building Regulations; your approved Morsø dealer or your local building control officer can advise regarding this. Ultimately, it is you and your installer who is responsible that the installation complies.

1.3 Chimney sweep

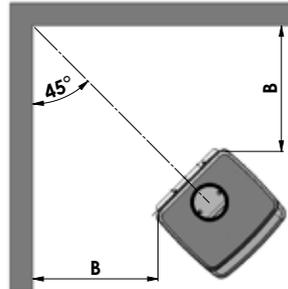
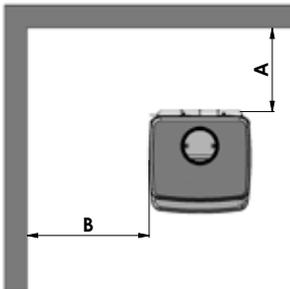
It may also be wise to consult your local chimney sweep before installing the stove. After your stove has been installed, it is advisable to have the chimney checked and swept at least once a year. In any case, if your chimney has not been used for some time, it should be inspected for cracking, bird nests, etc. before it is put back into use.

1.4 Stove placement/clearance requirements

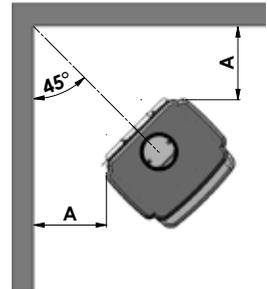
Minimum Clearance requirements apply if the stove is placed near to combustible materials. Permitted clearances to combustible materials are also indicated on the data plate on the rear of the stove.

In situations where the stove is to be fitted into a brick or non-combustible recess, we recommend that the stove is installed with at least 10 - 15 cm clearance to the wall, this will allow heat to circulate around the stove; also the maintenance of the outside stove is easier. When applied to masonry, a layer of wallpaper is normally classified as a non-combustible surface. However, there may be a degree of discolouration particularly where blow vinyl papers are used.

Minimum distances from flammable material:				
Stove type	Behind the stove (A)	To the sides of the stove (B)	Above the stove	To furniture
Morsø 3410 uninsulated flue	400 mm	600 mm	600 mm	800 mm
Morsø 3410 insulated flue	200 mm	600 mm	600 mm	800 mm
Morsø 3440 uninsulated flue	350 mm	350 mm	600 mm	800 mm
Morsø 3440 insulated flue	200 mm	300 mm	600 mm	800 mm



3410 corner installation



3440 corner installation

On the floor

National and Local Building Regulations must again be observed when considering the type, thickness and area of the hearth to be used in the installation. The hearth temperature under safety test was less than 65°C.

One should of course always make certain that the underlying floor surface can bear the weight of the stove.

Clearances to Furniture

The clearance requirement from the stove to any furniture should be no less than 800 mm. It is always necessary to assess whether or not any furniture or other objects situated close-by can be affected by heat, i.e. dried out.

The distance to any combustible material in front of the stove is minimum 800 mm.

The surface of a wood burning stove gets extremely hot when used and therefore special attention to safety is paramount, especially where children or the infirm are present.

1.5 The chimney

Only if National or Local Regulations permit are you permitted to connect a stove into a chimney that is shared by another appliance. YOU MUST be aware of any applicable Regulations in this respect.

The wood-burning stove must never be connected to a chimney to which a gas-burning stove or appliance is connected. An efficient modern stove places heavy demands on the chimney, and you should have the chimney regularly swept and inspected by your approved chimney sweep. The cross-sectional area of the chimney (at its narrowest point) must comply with National and Local Building Regulations. Generally, the area needed for a Morsø wood-burning stove installation should measure at least 175 cm² (150 mm diameter).

An over-sized chimney is generally hard to keep warm and results in poor draft. In cases where there is an oversized masonry chimney, it is recommended that the chimney be lined using an appropriate chimney lining system with the correct internal diameter.

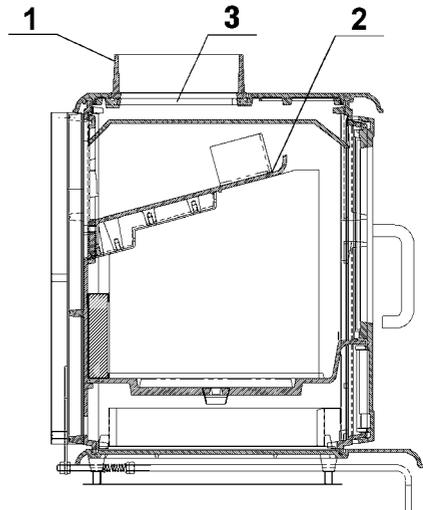
With respect to the chimney termination, all chimneys should terminate in accordance with National and Local Building Regulations. Note that National and Local Regulations also apply with regard to the placement of chimneys and flues in connection with thatched roofs. See the section on Draft Conditions, 1.9.

The chimney or flue system must be equipped with access doors for inspection and cleaning. The size of the cleaning door in the chimney must at least equal to that of the cross-sectional area of the chimney. In the event that a chimney fire occurs resulting from faulty operation or prolonged use of damp wood fuel, close the air vents completely and contact your local fire department immediately.

1.6 Fluepipe connections

The stove comes standard with a smoke outlet (1) and a ball lock (3) at the top, and a cast-iron cover mounted on the cast-iron back panel behind the convection back panels. If you want to install the stove with the smoke outlet at the back, knock the iron plates on the convection back panels out of the small "bridges" which hold the plates in place, using light, steady hammer taps. Unbolt the cast-iron cover from the back panel by turning it anti-clockwise, and install it in the top plate by pushing it down and turning it clockwise. The cover can work as a clean-out cover, making access easier for the annual cleaning of the stove. Centre the smoke outlet in the hole at the back of the stove and bolt it securely in place with the bolts and clamps provided. The ball lock is not used, if the stove is fitted with the outlet at the back.

Please note: During firing, the cleaning valve (2) must always be installed correctly in the baffle as the top cover may otherwise over-heat and sustain permanent damage.



1.7 Connecting the stove to a masonry chimney

A wall sleeve should be bricked securely into the wall of the chimney at the appropriate height and the stovepipe inserted centrally. The pipe must not extend into the actual chimney opening, but rather must reach only to the inside of the chimney aperture. The gap between the stovepipe and sleeve must be sealed using glass fibre packing rope.

Only use stovepipe components that comply to National and Local Building Regulations.

1.8 Connecting to a stainless steel insulated chimney system

If your installation involves taking the chimney straight up and through the ceiling, you must comply with National, Local Building Regulations or flue manufacturers instructions concerning clearances to combustible materials such as walls, floor joists and ceilings. The joint between the stove flue collar and the stovepipe must also be sealed using glass fibre rope. It is important that the insulated flue system is properly supported both at ceiling level and at roof level. **THE STOVE MUST NOT BEAR THE WEIGHT OF THE CHIMNEY SYSTEM** (See chimney manufacturer's instructions). Excessive weight on the stove will inhibit expansion and could lead to damage of the stove top. Damage caused to the stove in this way would not be covered by the manufacturers guarantee.

In the event that a chimney fire occurs resulting from faulty operation or prolonged use of damp wood fuel, close the air vents completely and contact your local fire department immediately.

Be aware of the following:

Cleaning procedure: Discuss this with chimney sweep or qualified installer prior to or during the stove installation

Chimney draft: If the chimney draft is naturally poor it is better to install the flue from the top of the stove so as to minimise any internal resistance of the flue gases.

Avoid having any more than 2 bends in the flue system and limit the length of the offset between bends.

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 Draft conditions

If smoke spillage occurs when the fire door is opened, it is probably due to poor chimney draft. This type of stove requires at least 12 pa of chimney draft to achieve satisfactory combustion and smoke spillage prevention. However, in cases where the stove door is opened too vigorously you could expect that slight smoke spillage may occur. The flue gas temperature at the rated output is 272° C relative to 20° C. The flue gas flow is 6.7 gr/sec.

If you have some doubts you can ask you local sweeper to measure the draught of 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

The heat output of your stove is regulated by means of the 3 air inlets. The primary air supply, i.e. the air which passes through the shaking grate, is controlled by left handle under the ash lip, while the secondary air supply, i.e. the air supplied to the fire across the glass window, is controlled by the right handle.

A third flow of air is supplied right over the fire and takes care of burning the gasses that are freed last from the wood when it is heated. This flow may be regulated with the handle behind the stove in the left side; however, on EN approved stoves, it must be set in the lowest position. The stove's rated heat output is 6,5 kW. The efficiency is 74%. Your new Morsø stove is EN-tested and recommended to be fired with wood. The stove is intended for intermittent use. The stove is equipped with a removable handle; for safety reasons it should be removed during use, especially where children are nearby.

NB!

Wood is a material that contains a great deal of gas (approx. 75%). The gasses are released when the wood is lit and heated. For this reason, it is important that these gasses 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 gasses, resulting in damage to the stove.

In order to ignite the gasses 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 test, all stoves are tested with wood with a moisture content of $(16 \pm 4)\%$.

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 refuelling intervals

Kindling (dry sticks) requires a large volume of air for quick combustion. When lighting the stove from cold it will help to keep the main door ajar (2-3cm) for the first few minutes and the air supply should be fully open during lighting (right handle). When only burning wood it is recommended that a 1 cm deep ash bed be established and maintained on the grate of the stove.

When draught is poor, letting in a little primary air through the grate may facilitate firing; however, it should be noted that this supply of air may cause temporary sooting of both stones and glass.

1. A layer of embers will form rapidly if the stove is lit with 2 - 4 fire lighters or 7 - 10 rolled up sheets of newspaper, underneath roughly 1-2 kg of dry kindling.



2. Fully open the secondary air supply that is controlled by the right handle beneath the ash lip.



3. After the paper/fire lighters have caught fire, leave the fire door ajar about 2-3 cm, so that the chimney draws well.



4. After 5-10 minutes the chimney draft should be established, at this point close the fire door. If all the necessary conditions are met, a nice layer of embers will start to accumulate after another 15 - 20 minutes.



5. Refuelling of your stove should be done while there are still glowing embers in the bed. Spread the embers across the bottom, but concentrated mostly towards the front of the stove.



6. Place three pieces of fuel weighing roughly 0.7 kg and measuring about 30 cm in length across the embers in one layer, with spacing of roughly 1 cm between the pieces of wood.



7. When the secondary air supply is opened all the way and the door is closed, the new fuel will ignite in a few minutes.



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.

8. Once the new fuel has taken, adjust the secondary air amount to the desired setting; optimal combustion will continue until glowing charcoals are produced.

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

Under normal chimney draft conditions, expect to refuel your stove every 70 - 80 minutes.



9. A new charge of wood can be added by repeating steps 5 & 6.

The stove door should normally be opened gently the first 2 - 3 centimetres, 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 litre 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 surface of the stove is painted with heat-resistant Senotherm paint. If the stove is used too vigorously, the painted surface may take-on a greyish tinge. It is easily maintained by simply vacuuming the surface with a soft brush attachment and applying two light layers of paint. Morsø stoves are painted in Morsø dark grey. The touch-up paint is available either as aerosol spray or as regular brush-on.

3.2 Internal maintenance

Glass

If the stove is used and installed onto a flue with the correct draft, very little or no deposits should appear on the Glass. It is usual for soot deposits to appear during long slumbering fires however, once the fire has been re-established to a burn brightly, these deposits should burn off.

If the glass window becomes thoroughly covered in soot due to faulty operation or poor draft, the soot can be easily removed using, e.g. Morsø Glass Cleaner, but please ensure that the glass is cold before cleaning. Avoid fuelling the stove with wood that is so long that it presses against the glass 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.
- Too much air coming through the bottom grate.
- Poor chimney draft.

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 wear components

The shaking grate, baffle plate and other internal components that are in direct contact with the fire are all constituted as 'wear' components or consumables, as they are exposed to the most wear. When used properly, these parts will last for many years, but overly vigorous use will naturally shorten the lifespan. The aforementioned parts are all easily replaceable. If the baffle plate is damaged or warped and is not replaced in time, the top plate could become subject to excessively high temperatures, which may lead to damage here also.

Note: that no unauthorised alterations to the stove design should be undertaken, and always ensure that any replacement parts purchased are Morsø original parts.

Reasons for overly rapid wear of internal parts

- Stove fired too vigorously.
- Too much air coming through the bottom grate.
- 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 rope gaskets in the door will need regular inspection in order to ensure and maintain full control of your stove's burning rate; over time the rope gaskets will harden and will become less airtight, at this point you will need to remove and replace with new. Use only the genuine Morsø gasket kit, which comes with detailed replacement instructions.

NOTE: Normal wear components (inner parts) are not covered by Morsø's 10-year guarantee.

Maintenance products (Spare Parts, Glass Cleaner, Paint, Gasket Kit, etc) are all available from your authorised Morsø dealer.

3.3 Cleaning the stove

During normal use and sweeping of your stove and chimney, a layer of ash, soot or debris can form, particularly on the top of the baffle plate or inner fireback. Any deposits allowed to build-up over time will have an insulating effect on these parts, thus restricting expansion; this will ultimately result in a shorter lifespan. The cast access door in the baffle plate can easily be removed from the stove and should be regularly checked for debris and cleaned. You must ensure that your chimney sweep removes all soot and debris from the stove after the sweeping process.

Your chimney should be swept at least once a year; however a regular inspection of your stove-pipe and chimney will determine whether a more frequent approach should be adopted.

Ash

In order to achieve the highest combustion temperature possible when burning solely wood, it is important that a 1cm deep bed of ash is established on top of the grate area. Excess ash should be removed by simply agitating the grate by moving the riddling rod on the outside of the stove; surplus ash will fall into the ash pan below the grate where it can be easily and safely removed.

Be sure to empty the ash pan before it gets completely full; if the ash level reaches the underside of the grate, air flow through the grate will be restricted and will lead to over-heating and premature wear of the grate parts.

When emptying the ash pan always dump the waste ash into a metal container (dustbin) where it can fully cool before being taken away by your refuse collector. Ash from a wood-burning stove does not benefit your garden as fertiliser.

4.0 Alternative fuel types

Your new Morsø stove is EN-approved for burning wood.

However, the stove is capable of burning other solid fuels as manufactured smokeless coal or good quality anthracite (stove nuts). If you fire your stove with any fuel other than wood, it may help to use coal insert/fuel economisers (available for most models), which simply fit into the left and right sides of the firebox. Designed primarily to guide the solid fuel over the grate area they also slightly reduce the firebox capacity allowing you to have smaller fires. This is an additional accessory and can be purchased from your authorised Morsø dealer.

BITUMINOUS HOUSE COAL SHOULD NEVER BE USED IN YOUR STOVE.

Before burning solid fuel

Install the coal insert (where available) into the left and right sides of the firebox.

All stove models are supplied with 1 front grate bar, however in the case of the 1400 series an optional second front grate bar can be purchased from your Authorised Morsø Dealer. A second front grate bar will allow for a deeper fire bed and a longer burn time.

IN ALL MODELS NEVER LOAD THE FUEL ABOVE THE FRONT GRATE BAR LEVEL.

Lighting with solid fuel

All air vents must be fully open during the lighting process.

Start by placing 5-10 crumpled sheets of newspaper or 2 Morsø firelighters on the grate of the stove; then carefully spread approximately 1 kg of well-dried kindling on the top. Light the paper/firelighters. Once the kindling has fully ignited, gradually add a small quantity of solid fuel, adding a little bit more once it has ignited. Continue in this manner until the entire grate is covered with glowing coals. The level of fuel in the stove should never exceed the level of the front grate(s). Once the bottom half of the fuel bed is glowing, you should partly close the bottom vent (on the ash pit door). Once the stove has reached your desired temperature you can maintain the output by opening further for more heat or closing for less heat. The top air regulator must always be open just enough so that the flames burn almost clearly and the ceramic glass window stays clean.

Note: In cases where smokeless fuels containing petrocok are burned, a pale greyish layer may be deposited on the inner glass surface when the stove is lit. Fuels containing a high content petrocok may cause a glistening in the surface of the ceramic glass. Although visible, the structure of the glass will remain intact and the stove safe. Glass is not covered by the manufacturer's 10-year guarantee.

In order to maintain the combustion process, the entire grate area must remain covered by glowing coals. If the coal layer is too shallow you will have less heat and it would not be necessary to supply air via the top vent.

You must empty the ash pan whenever it becomes full. Different fuels have different ash content and therefore the regularity of the de-ashing process can vary.

Fuel storage

Your fuel supply should always be stored in a suitable, weather-tight coal bunker. These are usually available through your approved coal merchant.

Spare parts for the 3400

Description	Product no.
Riddling grate	44162500
Intermediate Grate Frame	34341300
Inner Grate Frame	44132100
Baffle plate, complete	54346161
Access door (at baffle)	34341400
Door Glass	79340000
Side brick - front	79341100
Side brick - rear	79341000
Back brick	79341200
Brick securing bar	54340100
Front grate	34342000

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.

**Read more about "Morsø 10 years guarantee/product registration card" and
REGISTER your new Morsø stove online:
<http://international.morsoe.com/warranty-registration>**

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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