

morsø



By appointment to The Royal Danish Court

morsø

Instructions for installation and use

1412, 1442 & 1452

74,6% 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

1412: 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 from inside the stove. Carefully lift the stove from the wooden pallet and gently lay the stove onto its back and unscrew the heat shield from the underside of the stove. Now screw the legs and the Heat shield into position on the underside of the base. Following the removal of the wooden packaging the heat shield must be fitted to the underside of the stove at the same time as the legs utilising the same fixing bolts. Please see drawing.

The stove should now be lifted and moved into the upright position, avoiding excess load on the back legs.

1442: Carefully lift the stove from the wooden pallet and set it carefully in place.

1452: The assembly of the soapstone stove 1450 is described separately and instructions are enclosed with the soapstone packaging.

We recommend that two people perform the assembly and installation procedure. The Morsø 1412 weighs 70 kg, while the Morsø 1442 weighs 80 kg and the 1452 weighs 120 kg.

1.2 Installing the stove

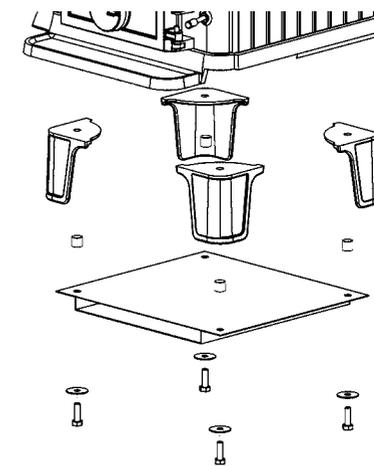
The stove and chimney installations MUST comply to all current National and Local Building Regulations; your approved Morsø dealer or your local building control officer can advise regarding this. Ultimately, it is you and your installer who is responsible that the installation complies.

1.3 Chimney sweep

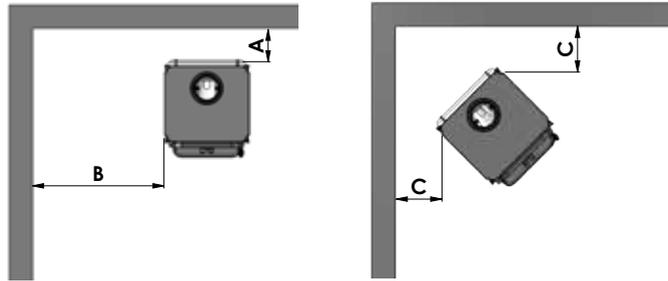
It may also be wise to consult your local chimney sweep before installing the stove. After your stove has been installed, it is advisable to have the chimney checked and swept at least once a year. In any case, if your chimney has not been used for some time, it should be inspected for cracking, bird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



Minimum distances from flammable material:			
Ovn type	Behind the stove (A)	To the sides of the stove (B)	45° corner (C)
Morsø 1412 uninsulated flue	200 mm	600 mm	600 mm
Morsø 1442 uninsulated flue	200 mm	300 mm	200 mm
Morsø 1452 uninsulated flue	200 mm	600 mm	600 mm
Morsø 1412 insulated flue	100 mm	600 mm	600 mm
Morsø 1442 insulated flue	100 mm	300 mm	200 mm
Morsø 1452 insulated flue	175mm	300 mm	125 mm



For all stoves, keep minimum a 500 mm distance to ceiling.

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.

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. Max Hearth temperature under safety test was 45°C. One should of course always make certain that the underlying floor surface can bear the weight of the stove.

Distance to furniture and soft furnishings

We recommend that the stove be installed 700 mm from furniture. Serious consideration should also be given to positioning of any furniture that could be adversely affected by heat. The clearances to combustible materials in front of the stove should be a minimum of 700 mm. When lit, a wood-burning stove gets hot and therefore adequate protect must be provided, particularly in situations where there is a safety risk to children or the infirm. A suitable safety guard around the stove should be considered.

The stoves handle also gets hot when the stove is lit, which is why a safety glove is included with the stove.

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). Exceptions to this are: Smoke Exempt Morsø stoves fitted with a 125mm diameter flue collar. These can be connected to a chimney system or liner with a minimal cross sectional area of 123 cm² (125mm 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.

1.6 Fluepipe connections

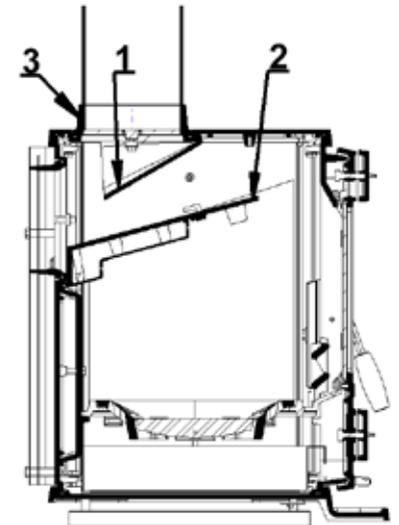
Your stove is supplied ready for a top flue connection (3) the rear flue outlet is fitted with a cover plate and is situated behind the rear heat shield/convection panel. Where a rear flue installation is required, simply knock out the steel plates in the rear heat shield/convection panel. This is best done by applying gentle hammer taps immediately onto the small "bridges" in the circular cut-outs. Once the knock-outs have been removed Unbolt the cast iron cover plate and install it into the top of the stove. The flue collar can then be bolted over the rear flue outlet using the clamps provided.

Placement of smoke tray

In some cases Morsø stoves come ready-equipped from the factory with a smoke hood (1), as shown in the diagram. (NOTE: Not all stoves require a smoke hood). Where applicable, the smoke hood must not be used if the stove is to be installed with a rear flue outlet (3).

The smoke hood must not be fitted if the stove is installed on a boat where the flue height is likely to be less than 4.5M.

Please note: During firing, the cleaning valve must always be installed correctly in the baffle as the top cover may otherwise overheat and sustain permanent damage. Make sure that the baffle, smoke hood, firebricks and the riddling grate are positioned correctly.



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 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 smoke gas temperature at the rated output is 294° C relative to 20° C.
The smoke gas flow is 5.43 gr/sec.

If you have any doubts, you may want to have your installer measure the draft 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

The heat output of your stove is regulated by means of the air inlets. The primary air supply, i.e. the air which passes through the shaking grate, is controlled by the bottom draft vent, while the secondary air supply, i.e. the air supplied to the fire across the glass window, is controlled by the top draft vent. The stove's rated heat output is 4,8 kW. The efficiency is 76%.

Your new Morsø stove is EN-tested and recommended to be fired with wood. The stove is intended 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 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

A lot of air is needed when first lighting the stove. When starting with a totally cold stove, it may be helpful to leave the door ajar (2-3 cm) during the first few minutes; the secondary air intake should be fully open. You should build and maintain the ash bed to a thickness of approximately 1 cm.

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 kg of dry kindling.

2. Fully open the top vent so that the secondary air supply can enter the firebox.

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 0.6 kg and measuring about 25 cm in length across the coals in one layer, with spacing of roughly 1 cm between the pieces of wood.



7. When the secondary air supply (top vent) 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 60 - 70 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 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

Ceramic glass

If the stove is used and installed onto a flue with the correct draft, very little or no deposits should appear on the ceramic 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 will 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 replaced. If the baffle plate and the cleaning door are damaged and not replaced in time, the stove top will be exposed to such high temperatures that it may be damaged. The cast iron baffle plate is replaced by dismantling the heat shields on the back on the stove. This allows free access to the two bolts that hold the baffle plate in place. Remove the two bolts, and you may now take the baffle plate out of the stove through the door.

When reassembling, take care that the baffle plate is positioned correctly before tightening.

Note that no unauthorised alterations to the stove design should be undertaken, and always ensure that any replacement parts purchased must be 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).

Firebricks

After firing for some time, cracks may develop in the heat insulating firebricks. This does not affect the functioning of the bricks as long as they remain in place.

If the bricks need to be replaced, the baffle plate must be loosened. This is done by dismantling the heat shields on the back on the stove to gain access to the two bolts that hold the cast iron baffle plate. The bolts are loosened. You may now lift the baffle plate so that the bricks may be removed and new ones mounted.

When reassembling, take care that the baffle plate is positioned correctly before tightening.

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 extended 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 ultimately results in a shorter lifespan. The chrome-iron access door 1464 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

As noted above, there should be circa 1 cm insulating layer of ash on top of the grate when burning wood only in order to achieve a high combustion temperature. Excess ash can be removed by pulling out the shaker rod (outside of the stove) several times so that ash falls cleanly into the ash pan below.

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 HETAS amendments

Health and safety precautions

Special care must be taken when installing the stove such that the requirements of the Health and Safety at Work Act are met.

Handling

Adequate facilities must be available for loading, unloading and site handling.

Fire Cement

Some types of fire cement are caustic and should not be allowed to come into contact with the skin. In case of contact wash immediately with plenty of water.

Asbestos

This stove contains no asbestos. If there is a possibility of disturbing any asbestos in the course of installation then please seek specialist guidance and use appropriate protective equipment.

Metal Parts

When installing or servicing this stove care should be taken to avoid the possibility of personal injury.

Note of references to the current UK regulations

In all cases the installation must comply with current Building Regulations, Local Authority Byelaws and other specifications or regulations as they affect the installation of the stove. It should be noted that the Building Regulations requirements may be met by adopting the relevant recommendations given in British Standards BS 8303, BS EN 15287-1:2007 as an alternative means to achieve an equivalent level of performance to that obtained following the guidance given in Approved Document J.

Please note that it is a legal requirement under England and Wales Building Regulations that the installation of the stove is either carried out under Local Authority Building Control approval or is installed by a Competent Person registered with a Government approved Competent Persons Scheme. HETAS Ltd operate such a Scheme and a listing of their Registered Competent Persons can be found on their website at www.hetas.co.uk.

This stove must not be installed into a chimney that serves any other heating appliance.

More detailed advice about existing chimney usage

NOTE: A chimney height of not less than 4.5 metres measured vertically from the outlet of the stove to the top of the chimney should be satisfactory. Alternatively the calculation procedure given in EN 13384-1 may be used as the basis for deciding whether a particular chimney design will provide sufficient draught.

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

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

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

If there is no existing chimney then any new system must be to the designation described above and in accordance with Building Regulations Approved Document J.

A single wall metal fluepipe is suitable for connecting the stove to the chimney but is not suitable for use as the complete chimney. The chimney and connecting fluepipe must have a minimum diameter of 150 mm and its dimension should be not less than the size of the outlet socket of the stove.

Any bend in the chimney or connecting fluepipe should not exceed 45°. 90° bends should not be used.

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

If it is found that there is excessive draught in the chimney then a draught stabiliser should be fitted. Fitting of a draught stabiliser will affect the requirement for the permanent air supply into the room in which the stove is fitted in accordance with Approved Document J (see also combustion air supply).

Commissioning and handover

Ensure all parts are fitted in accordance with the instructions.

On completion of the installation allow a suitable period of time for any fire cement and mortar to dry out, before lighting the stove. Once the stove is under fire check all seals for soundness and check that the flue is functioning correctly and that all products of combustion are vented safely to atmosphere via the chimney terminal.

On completion of the installation and commissioning ensure that the operating instructions for the stove are left with the customer. Ensure to advise the customer on the correct use of the appliance and warn them to use only the recommended fuel for the stove.

Advise the user what to do should smoke or fumes be emitted from the stove. The customer should be warned to use a fireguard to BS 8423:2002 (Replaces BS 6539) in the presence of children, aged and/or infirm persons.

Warning note on fume emission

Properly installed, operated and maintained this appliance will not emit fumes into the dwelling. Occasional fumes from de-ashing and re-fuelling may occur. However, persistent fume emission is potentially dangerous and must not be tolerated. If fume emission does persist, the following immediate actions should be taken:

- Open doors and windows to ventilate room.
- Let the fire out or eject and safely dispose of fuel from the appliance.
- Check for flue or chimney blockage, and clean if required.

Do not attempt to relight the fire until the cause of the fume emission has been identified and corrected. If necessary seek expert advice.

Permanent air vent

The stove requires a permanent and adequate air supply in order for it to operate safely and efficiently.

In accordance with current Building Regulations the installer may have fitted a permanent air supply vent into the room in which the stove is installed to provide combustion air. This air vent should not under any circumstances be shut off or sealed.

Chimney cleaning

The chimney should be swept at least twice a year. It is important that the flue connection and chimney are swept prior to lighting up after a prolonged shutdown period.

If the stove is fitted in place of an open fire then the chimney will require sweeping after a month of continuous operation. This is a precaution to ensure that any "softer" deposits left from the open fire usage have not been loosened by the higher flue temperatures generated by the closed stove.

Periods of Prolonged Non-Use

If the stove is to be left unused for a prolonged period of time then it should be given a thorough clean to remove ash and unburned fuel residues. To enable a good flow of air through the appliance to reduce condensation and subsequent damage, leave the air controls fully open.

Use of fireguard

When using the stove in situations where children, aged and/or infirm persons are present a fireguard must be used to prevent accidental contact with the stove. The fireguard should be manufactured in accordance with BS 8423:2002 (Replaces BS 6539).

Use of operating tools

Always use the operating tools provided when handling parts likely to be hot when the stove is in use.

Aerosol sprays

Do not use an aerosol spray on or near the stove when it is alight.

Spare parts for the 1412/1442/1452

Description	Product no.
Riddling grate (1440)	44203300
Riddling grate	44203000
Grate frame	44203100
Baffle plate complete	54141361
Access Door	44146400
Front grate	44141400
Glass panel 1410	790726
Glass kit (with screws, clips & gasket) 1410	62904000
Glass panel	1430790721
Glass kit (with screws, clips & gasket) 1430	62904200
Glass panel 1440	790724
Glass window kit (with screws, clips & gasket) 1440	62904100
Side firebrick	79094700
Coal inserts/fuel economisers	62905100

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>**

Morsø Jernstøberi A/S - 10.08.2017 - 72146800

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

morsø

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