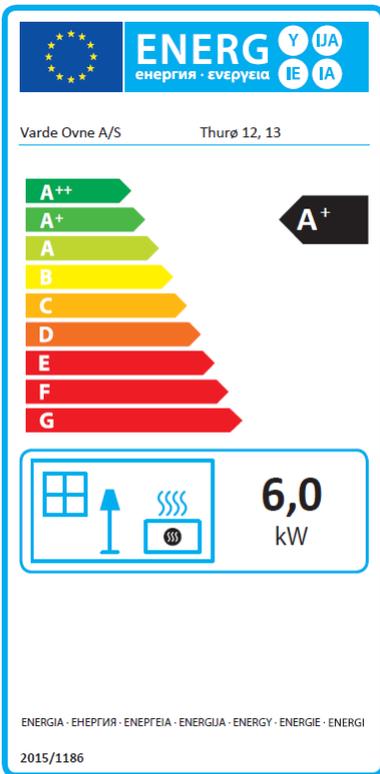


Varde Thurø 12 and 13

Installations and user guide

Revision 2



VARDE OVNE

Soldalen 12, 7100 Vejle, Danmark, phone. +45 7482 0003. www.vardeovne.dk

Congratulations on purchasing your new stove.

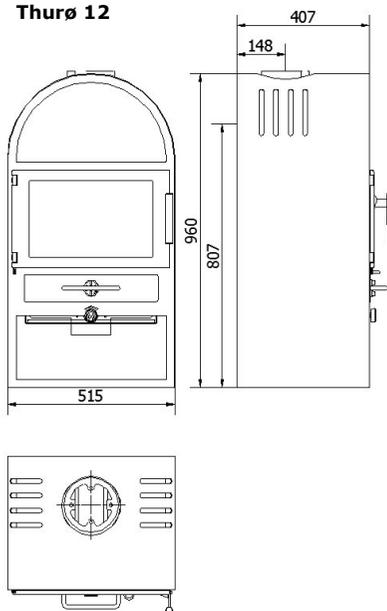
Varde Ovne A/S is a Danish company specializing in functional, environmentally friendly and designed quality stoves.

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Technical Specifications

Thurø 12



Model Thurø 12

Height (mm)	963
Width (mm)	515
Depth (mm)	407
Weight (kg)	89 kg
Effect	4-8 kW
Nominal Output	6,0 kW
Heated area	45-120m ²
Efficiency	82%
EEl	110
Flue gas data:	5,3g/sek., 296°C at 20°C, 12 pa.

Combustion chamber: (H x W x D):

240x400x310mm

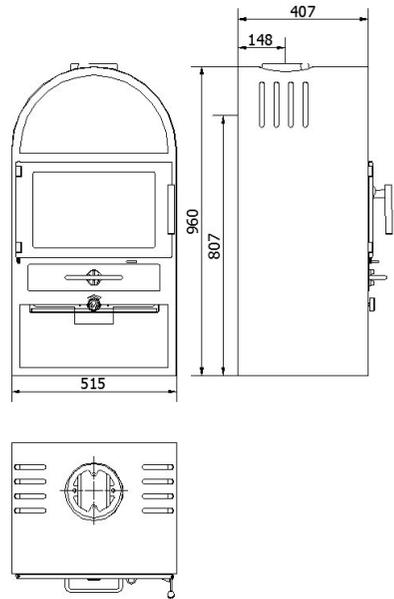
Flue outlet Ø 15 cm (Mounting height back: 80,7
top: 93cm)

Distance to non-inflammable: 5-10cm
(recommended)

Distance to inflammable wall and materials:

Rear = 20cm, Sides = 40cm, In front = 110cm

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Important!

Before lighting up your **Varde Stove** for the first time, we recommend that you read these instructions carefully and contact your local stove vendor or building authorities to inquire about existing regulations regarding the installation of stoves. Please follow these regulations closely.

Inspection of installation

It is very important that the installation be inspected by a qualified chimney sweeper before the stove is in used for the first time.

This Varde Stove

Has passed the Danish /European Standard DS/EN 13240 and the German (DINplus) test , and have thereby proved to be a environmentally friendly product.

Regulations

All local regulations as well as National and European, should be adhered to when installing your stove.

All Varde Ovne stoves are closed fireplaces.

The stove is designed for intermittent combustion and can be connected to a chimney used by other fireplaces, as long as the appropriate rules and regulations are adhered to.

Professional installation

We recommend that you consult with the dealer where you purchased the stove or an other competent installer, as there may be specific things to consider during the installation. You should also reseive the applicable rules for installing the stove and follow them.

Please Note!

You are by law required to register your stove at the local chimney-sweeper.

Until installation keep the stove dry and not to cold. The stove cannot stand moisture.

That an existing chimney, not necessarily is effective enough for a new modern stove. Vermiculite is a very porous material, therefore handle with care. When refilling the stove, put the wood carefully, use the glove.

EC declaration of confirmaty.**MANUFACTURER**

Name: **Varde Ovne A/S**
 Adress: Soldalen 12, DK-7100 Vejle, Danmark

Test Institute

Name: **Rhein-Ruhr Feuerstätten Prüfstelle GmbH**
 Adress: Im Lipperfeld 34 b, D - 46047 Oberhausen

Product

Product type: Varde Thurø 12 and 13
 Product type: Thurø
 Type code: Heating stove, suitable for intermittent combustion
 Standard: Costruction products (89/106/EC/) standard used EN 13240
 Application: Residential Heating
 Fuel: Wood
 Special conditions: Non

CE-Markning

Issued: 2016
 Nominal Output: 6,0 kW
 Fuel type: Wood
 Fluegas temperature: 246 °C
 Efficiency: 82 %
 Co-release: 0,08 %



Jan Meldgaard
 Varde Ovne A/S

Flooring:

If the floor on which the stove is to be placed is inflammable, the floor must be covered with non-flammable material, such as steel or glass plate, floor tiles or artificial slate, covering an area of at least 15 cm from the sides of the stove and at least 30 cm from the front of it. Regarding the front, however, we recommend 50 cm. Also, the Floor construction must be capable of carrying the combined weight of stove and chimney.

Weight	Steel Stove
Varde Thurø 12	89 kg
Varde Thurø 13	96 kg

Installation distance:

If walls are non-inflammable, the stove can be placed closer to them. However, we recommend a minimum distance of 5-10 cm, to allow for cleaning behind the stove. The cleanout gate must be accessible. Optimal combustion can only be obtained if fresh air is constantly admitted. It is important, therefore, to ensure that this is the case. The best way to provide a steady flow of fresh air is by installing 1-2 air vent's in the room where the stove is situated. (One in each side of the room).

According to existing regulations, stoves must be placed with the following minimum distances in mm to inflammable walls and materials. The distance from the outer edge of the flue pipe to inflammable material is described as for horizontal Flue 300mm and the distance for vertical flue is 225mm

Varde Thurø

A	200mm	C	400mm
B	225mm	D	1100mm

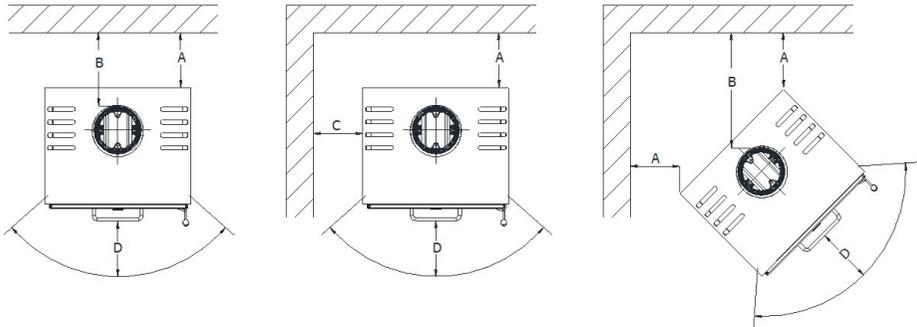
The stove must in accordance with applicable rules comply with the following minimum distances from inflammable walls and materials:

Sides : 40cm

Rear : 20cm

Distance to furniture : 110cm

Varde Thurø 12 and 13



The chimney:

Always use a chimney with a diameter of at least 15 cm. This corresponds to a clear of 175 cm². Make sure the chimney is of a sufficient height, that it draws well and that smoke does not bother your neighbours.

We recommend that you fit your chimney with a damper, allowing for draft control. This may prove particularly important on windy days.

Note: the damper must never shut off draught completely – always allow at least 20 cm² free passage through the chimney.

With nominal usage the stove has tested a flue gas flow of 5,3 g/second and with a flue gas temperature of 296 °C in a room of 20 °C.

Varde stoves are always fitted with a smoke plate which redirects smoke to make its way to the chimney as effectively as possible. This ensures that the heat from the smoke is emitted inside your home rather than outside it. The smoke plate is moveable and placed on top of the Vermiculite fire brick side plate. You should make sure that it is pushed all the way back against the back wall of the combustion chamber.

Draught conditions

Consult your local stove dealer about how best to adjust the draught in your chimney.

Hight of chimney

If in doubt, contact your local stove dealer. He will be able to inform you of the correct hight.

Varde Thurø 12 and 13

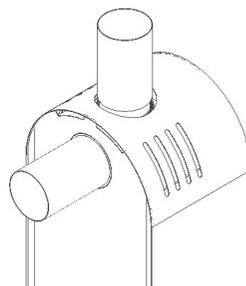
Connection of Flue pipe:

The Stove can be mounted with Flue adaptor on top or on the rear side.

When mounting from the rear remove the precutted area on the bag plate.

When mounting on the rear side the Flue adaptor and cover switch places.

The cosmetic cover plate is not included and has to bought seperatly, and shall only be used when the rear outlet is being used.



Information about the new cast iron adapter.

Your stove is equipped with the new cast iron adapter from Varde Ovne.

The adapter is suitable for smoke pipes with inner diameter on 150 mm.

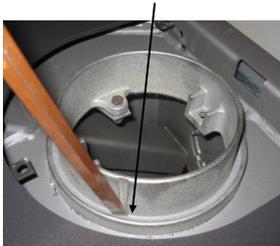
If you need it, it's now possible for you to make a condensate drain-hole in the adapter.

- ◆ Carefully punch a chisel or the like through the adapter in the outer groove, at the arrow mark. This way you can establish a condensate drain hole in the adapter.

Arrow mark for the hole.

Carefully punch a hole with a chisel or the like.

Now the condensate – hole is ready.

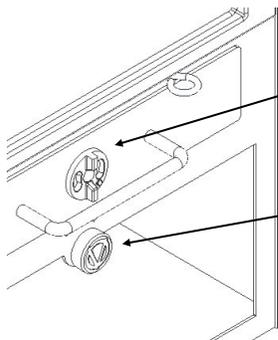


Combustion/Secondary air

Pre-heated air for the combustion process, the amount of which can be altered according to the desired room temperature, and the effectiveness of the chimney. A high level of chimney draught requires a lesser intake of combustion air.

Primary air

Also known as 'sub-air', the air which is drawn into the combustion chamber through the air valve on the ash pan.



Air valve

Air valve for primary air.

Combustion/secondary air

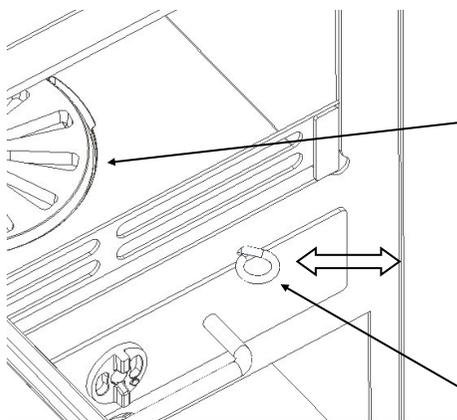
Valve for combustion/secondary air.

Continual fresh air

A continual supply of fresh air is required in the room in which the stove is situated. This can be achieved by installing 1-2 vents, whilst also ensuring that these can not be blocked. The quantity of air used for burning, is approx. 15,5 m³ / h.

Overheating

Occurs if too much wood is placed in the stove or if the combustion receives too much air.



The Shake grate - Thurø 13

The shaking grate is situated at the bottom of the combustions chamber. The ashes will be shaken into the ashpan by pulling and pushing of the lever.

Shake grate

Pull and push the lever.

Spare parts

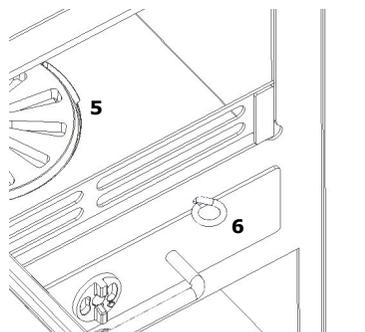
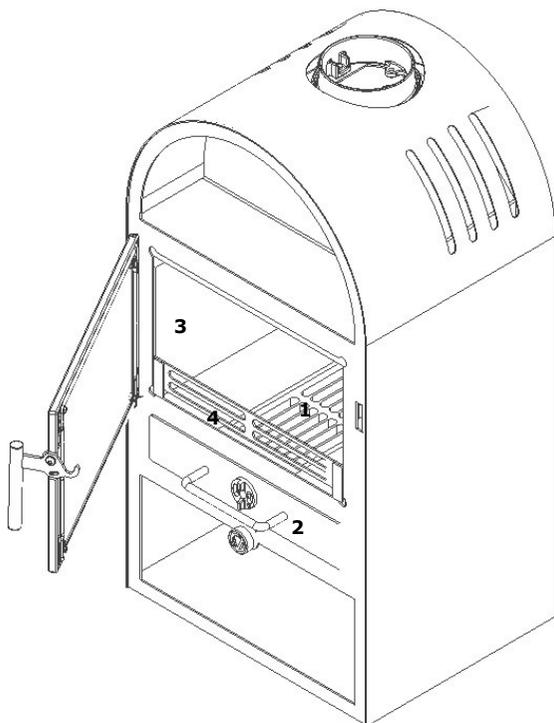
If Spare parts at any time should be needed, please check the list below.

Article	DB No.	EAN No.	VO No.
Vermiculit set , Thurø 12	1878724	5703505049851	100789
Vermiculit set , Thurø 13	1878731	5703505049868	100790
Spring for door UK versions, Thurø		5703505049837	100787
Bottom Grate cast iron, black, Thurø 12	1878736	5703505049707	100774
Rosette with logo ø20 m/M6 threat, black		5703505049882	100792
Log retainer, Thurø 12 and 13, black	1878734	5703505049981	100802
Cover Plate, Thurø 12 and 13, black	1878735	5703505049998	100803
Ashpan complete Thurø 10, 12 and 13		5703505044313	100372
Handel, Thurø 10,11,12 and 13	1578320	5703505044306	100373
Handel for ashpan, Thurø 10,11,12 and 13		5703505044283	100374
Door complete cast iron, Thurø 10,11,12 and 13	1725182	5703505044252	100276
Glass Thurø 10,11,12 and 13—403x258 mm	1556387	5703505044221	100578
Sealing rope ø10mm/2,5m with glue 50 ml	1240478	5703505040162	100351
Sealing rope 3 x 8 mm/2,0 m	1597708	5703505045457	100443
Bottom cast iron Thurø, VL 1, 2, 3, 9 and 10 black		5703505002060	100265
Grate disc cast iron, black	5603950	5703505000654	100471

Thurø 12 and 13

Varde Thurø 13

Varde Thurø 12



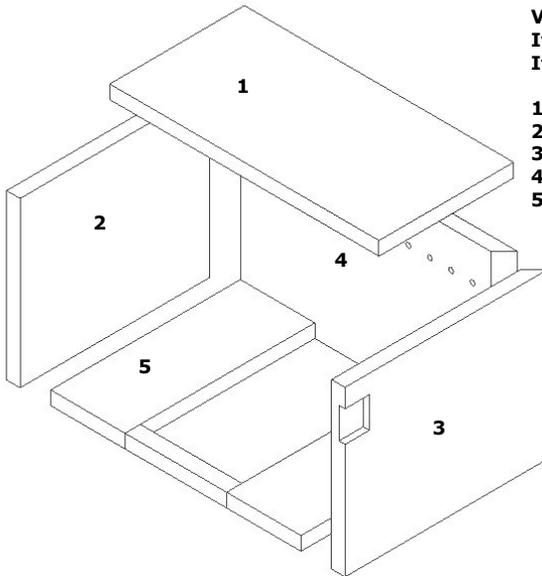
1. Grate
2. Ash pan
3. Vermiculite fire brick Item no.: see next page
4. Wood catch
5. Rotation grate
6. Rod for rotation grate

Vermiculite

The plates in the combustion chamber are Vermiculite plates and will eventually be worn, - as will the smoke plate. Should you accidentally break the plate, for instance by hitting it hard with a piece of wood, this does not affect the quality of the combustion. You need not replace the plate until the gap is 5 mm wide.

Vermiculite

A special non-flammable material. The vermiculite fire plates both isolate and protect the stove from attrition. Vermiculite plates and deflector not covered by the warranty. Vermiculite is a very porous material, therefore handle with care. When refilling the stove, put the wood carefully, use the glove.



**Vermiculite fire brick,
Item no.: 100789 (Thurø 12)
Item no.: 100790 (Thurø 13)**

- 1. Smoke plate**
- 2. Side plate, left**
- 3. Side plate, right**
- 4. Rear plate**
- 5. Bottom plates**

How to replace the Vermiculite

1. Smoke plate, lift easily, bottom bag end are tilted forward, take down.
 2. The left side plate can be easily lifted up and rotated out.
 3. Right side plate can be easily lifted up and rotated out.
 4. The back cover is lifted up and out of the stove.
 5. Remove the bottom plates
- Mounting of new Vermiculite plates follow point 5 towards point 1.

What kind of wood to use?

Generally, beech wood is considered the best type of wood for burning. It burns evenly without producing much smoke and ashes are clean and take up little space. Ash, birch and maple wood are fine alternatives.



How big the firewood?

Split firewood with a diameter larger than 10 cm. Use firewood with a length on 20-25 cm. The use of larger quantities of fuel than recommended in the tabel below will overtax the stove and resulte in increased temperatures in the chimney as well as a lowered efficiency. This may cause damage to both chimney and stove, and the annulment of the warranty. Also, never use toxic materials such as chipboard, painted or impregnated wood.

Lightnings sticks

Length: 20 -25 cm

Width 3x3 cm

Normal amount: 10-15 sticks

Firewood

Length: 25-30 cm

Diameter: max. 10 cm

Normal amount: 2-3 firwood (approx. 1,6 kg)

The new stove

The first time you light up the stove the enamel will temper, and give off some smoke and a slight smell. We recommend that you leave doors and windows open, as airing the room will make the smell disappear. This tempering softens the enamel making it susceptible to damage. Therefore exercise caution and avoid touching the enamel. Likewise we recommend opening the door to the stove at regular intervals for the first hours to prevent the insulations rope from sticking to the enamel.

What to burn.

This Varde Stove is tested and approved for the burning of wood. Only dry wood with a moisture content of maximum 21 percent and the size to fit into the combustion chamber should be used. The burning of moist wood will result in an increased amount of tarry soot, pollution and uneconomic fuel consumption. Newly chopped wood contains about 60-70 percent moisture, which makes it completely unsuitable as fuel. Allow newly chooped firewood to dry in an open shed for a couple of years before using it in the stove.

Do not use! - Consider the environment

Also, never use toxic materials such as chipboard, painted or impregnated wood.

The use of larger quantities of fuel than recommended in the tabel below will overtax the stove and resulte in increased temperatures in the chimney as well as a lowered efficiency. This may cause damage to both chimney and stove, and the annulment of the warranty.

Topdown Lightning of the fire



The following optimal register and fuel quantity settings are recommended (in case of similar chimney draught):

Fuel Quantity [kg]	Primary Air [%]	Combustion Air [%]	Nominal Output [kW]	Chimney Draught [PA]	Efficiency [\geq i %]	Refill interval at nominal output [minuts]
1,6	0-10	60	6	12	82	45

How to light and stoke a fire:

The first time you light up the stove the enamel will temper, and give off some smoke and a slight smell. We recommend that you leave doors and windows open, as airing the room will make the smell disappear. This tempering softens the enamel making it susceptible to damage. Therefore exercise caution and avoid touching the enamel. Likewise we recommend opening the door to the stove at regular intervals for the first hours to prevent the insulations rope from sticking to the enamel.

Never use highly inflammable fluids such as methylated spirit and petrol for lighting up!

We recommend a "Top-Down" lightning, where you light the wood in the upper area of the combustions chamber and not in the ground. This method is the most environmental method to light a fire. The method will keep the glass clean. In the combustion chamber you make a cross (⊕) of 4 small pieces of wood with a small distance between each one of them (0,6-0,9kg). On top of them you make another cross (⊕) of 8-12 smaller sticks (0,7-1,0 kg.), on top of this firewood and in between use 2-3 kildning blocks. In total approximate 1,8kg of woods. A thin layer of ashes at the bottom of the stove makes lighting up a fire easier.

Before lighting up the stove, open the **Shake grate** by pulling the lever all the way out. Then open the valve on the ash-pan for access of **primary air** and open the valve under the ash-pan for combustion air (alternatively, shortly leave the door a little bit open if there is no wind and no draught in the chimney), thus allowing the fire to catch on. Always remember to close the door again, otherwise the stove can be overheated, and this is not covered by the warranty. When the fire burns steady, then remember to close the valve on the ash-pan again. In most instances, however, you will have to achieve the **best combustion air settings** yourself, as the height and draught of your chimney, as well as the quality of the firewood are decisive factors in determining how your particular stove is best set.

When refilling the stove with wood, we recommend opening the stove door only once embers are left in the combustion chamber. Opening the door whilst the flames are still burning and producing smoke and gas, might cause smoke slip into the room instead of up the chimney.

If the stove nominal heat output is too large compared to the heat demand, you can reduce the output as described here:

- use a smaller amount of wood than usual, for example. 1,0 to 1,3 kg. and preferably consist of 2-4 smaller pieces of wood. Apply full air to ignite the wood properly, then you can reduce the combustion air, perhaps down to approx. 40%. Be aware not to close too much for the air supply, otherwise the fire will die, the fire must always be bright and clear. With this method it, (depending on the chimney, wood quality, etc. is possible to reduce the stove heat output from a nominal 6 kW down to maybe 4 kW.

Please be aware that it can lead to poor combustion, if you regulate too much down the combustion air, resulting in a lower efficiency and increased emission levels in the smoke. (increasing pollution).

Should you have some issues with the lightning or the function, see section on **troubleshooting**.

Maintenance:

As any piece of equipment in daily use, your stove needs maintenance.

The stoves should only be cleaned when cold. Use a dry cloth for cleaning the exterior of the stove.

Clean the interior regularly by removing ashes, soot and tar from the combustion chamber. The Deflector should be removed for cleaning as the reverse side will be covered in dirt and soot. Finally check that the smoke pathway through the smoke pipe and chimney is completely clear. You should also inspect the gaskets in the door and the ash-pan for signs of wear. Replace them if permeable. Also, remember to oil the hinges of the door as required.

Empty the **Ash-pan** regularly. It can be emptied into your dustbin, as long as you make sure it contains no hot embers. When in doubt as how to clean your stove, contact the dealer from whom you bought your stove, or your chimney sweeper.

It is especially important to check the stove and its chimney for blockages after a long period of non-use.

The enamelled surface of the stove may wear down at certain places if the stove is **overheated**. Worn surfaces, however, can be repaired with a special Senotherm® spray paint, available at your local vendor.

The plates in the combustion chamber are **Vermiculite plates** and will eventually be worn, - as will the smoke plate. Should you accidentally break the plate, for instance by hitting it hard with a piece of wood, this does not affect the quality of the combustion. You do not need to replace the plate until the gap is 5 mm wide.

Only use original parts from Varde Ovne A/S

Do not make any unauthorised changes.

All external parts of the stove become hot during use, too. Therefore exercise necessary caution when the stove is in use.

IMPORTANT!!

Chimney Fires

Should your chimney catch fire, cut off the air supply to the stove's combustion chamber and contact the emergency service. (The majority of fires die out after the oxygen supply is cut off.) Following this, the least you should do is to contact your chimney sweeper, who will check your stove and chimney for damage.

Troubleshooting.

Smoke enters the room:

- Not enough draught in the chimney.
- Inspect the smoke pipe or the chimney for blockage.
- Clean the inside of the stove removing soot from the upper vermiculite / smoke (Deflector) plate.
- Make sure the height of the chimney is correct.

The glass or the chimney soot up:

- The wood is too moist.
- Not enough secondary air is applied to the combustion process.
- You may have shut off the supply of ignition air too early when lighting up the stove.
- There always have to be clear flames in the combustion chamber.

The heat is emitted from the stove:

- The wood is too moist (all energy goes into drying it) or of a poor quality.
- Inspect the position of the smoke plate and make sure there is free passage for the smoke.
- The amount of combustion(secondary air) air is not enough.

Combustion is too intense:

- Gaskets in the door or the ash-pan are no longer tight and need replacement.
- The chimney draught is too strong—apply a valve in the chimney.
- Inspect that the ignition air is closed.

The Shake grate is stuck:

- Inspect the grate for jammed wood, nails or the like.
- Make sure the lever is placed correctly.

Recycling

Packing

The packing is 100% recyclable.



Ceramic Glass

Ceramic glass to be deposited at the local recycling center and sorted together with pottery and porcelain.

Vermiculite

Vermiculite plates from the stove must be returned to the local recycling center.

- Rhein-Ruhr Feuerstätten Prüfstelle • Im Lipperfeld 34 b • 46047 Oberhausen
- ◆ Anerkendt prøvestitut, godkendt af Europakommissionen (EU) Nr. 305/2011, notified body: 1625
 - ◆ Prøvestitut efter DIN EN ISO/IEC 17025:2005, DAkkS Nr. D-PL-17727-01-00
 - ◆ Anerkendt prøvestitut i h. t. Delestatsbyggevordtægterne, reg.nr.: NRW 15
 - ◆ Anerkendt prøvestitut for byggetilvæsnæsmæssige tilladelser
 - ◆ Anerkendt DIN CERTCO prøvestitut, reg.nr.: PL139



PRØVNINGSATTEST

Kontrolerklæring nr RRF - 40 16 4228

Prøvens art Prøve i h. t. EN 13240:2001/A2:2004/AC:2007

Ordregiver: **Varde Ovne A/S**
Soldalen 12, 7100 Vejle, Dänemark

Genstand for prøven: brændeovn
Thure 12
Thure 13

Nominel varmeydelse: 6,0 kW

Emissioner i forbrændingsprodukterne relateret til 13 % O₂.

CO-emissionen	0,08 %	
Støvemissionen:	19 mg/m ³	efter CEN/TS15883, Annex A. 1 (DINplus metode)
OGC	94 mg/m ³	efter CEN/TS15883, Kapitel 4

Virkningsgrad: 82 %

CVR nr.: 21554979

P-nr.: 1005018532

Prøvningsresultater: Det attesteres herved at ovenfor nævnte fyringsanlæg opfylder emissionskravene i: Bilag 1 til bekendtgørelse nr. 46 af 22/01/2015 vedr. regulering af luftforurening fra fyringsanlæg til fast brændsel under 1 MW (1. og 2. trin)

Bemærk venligst, at de oplyste værdier er uddrag af prøvningsrapporten.

Godkendelsesafdelingens leder

(C. Droll)

Oberhausen, 13.09.2016

Skorstensfejer påtegning

Dato,

underskrift

Warranty

All **Varde** stoves go through a close quality inspection, and we take pride in always delivering products of a consistent quality. This being said, manufacturing faults may still occur, and on these we offer a **5 year warranty**.

The warranty does not include:

- wearing parts, such as the Vermiculite plates in the combustions chamber, the smoke plate, glass, gaskets, cast iron bottom and Shake grate.
- Damages which occur as a consequence of misuse, such as overheating, incorrect installation, missing or wrong maintenance etc. (see instructions earlier)
- Damages caused by external influence of a physical character.
- Cost of transportation in connection with warranty repairs.
- Assembling/reassembling in connection with warranty repairs.
- Compensation for following damages, including damage on other objects.

Warranty conditions:

These instructions for use are also your proff of warranty. The warranty will not take effect until vendor's stamp, information about model, registration number and date of purchase (invoice if possible) have been applid below. In case of claims, please bring this proof of warranty to your local vendor.

Model: _____

Reg.no.: _____

Date of purchase: _____

Vendor's stamp and signature



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