

NORD*flam*



MANUAL
AND WARRANTY CARD

▼
STOVES

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1. General information

Thank you for purchasing a NORDflam fireplace stove.

Prior to using the stove, please read the hereby manual carefully. For further information about this stove, please visit our website: www.nordflam.pl.

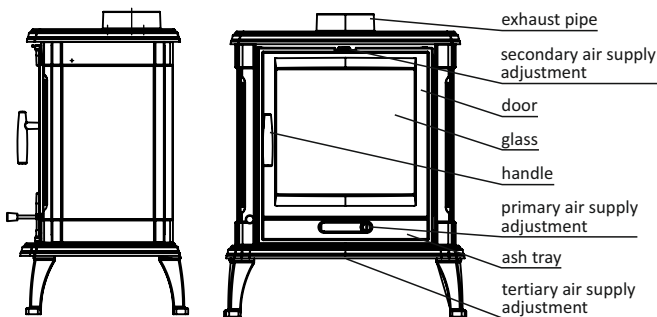


Fig.1. Fireplace stove schematics.

1.1. Fireplace stove intended use

The fireplace stove is used for heating residential rooms and recreation facilities.

1.2. Provisions of law

Provisions of law regarding fireplace inserts:

- Construction law Journal of Laws No 89 pos. 414 from 1994 – Bill from 07.07.1994. as amended,
- Ministry of Infrastructure regulation dated 12.04.2002 for technical conditions regulation the buildings and its positions – Journal of Laws no. 75 from 2002, pos. 690 as amended,
- EN 13240 standard: „solid fuel room heaters. Requirements and tests.”

2. Selecting the device

When selecting the device appropriate for the interior, apart from its aesthetic values, it is necessary to meet the regulations of the Minister of Infrastructure regulations from 12.04.2002 (Journal of Law 02.75.690 as amended) and the applicable provision of the construction law. Selection of the output of the device depends on the insulation level of the interior and the heated area. It is accepted that for sufficiently insulated room, 1 kW of output is sufficient for heating 10m² with the standard height of 2,5 m. It is required under the condition of the loss of warranty to choose the output of the device appropriately for the area of the heated room.

3. Installation

Installation of the fireplace stove must be performed in accordance with the applicable laws, norms and standards, recommendations of this manual as well as the construction principles. Installation must be performed by a qualified installer or a company. National and local terms must be met.

3.1. Chimney ducts

Each device should be connected to a separate chimney duct in accordance with applicable law. It is advised that:

- the minimum height of the chimney is equal to 3.5-4 m, optimal height is 5-6 m, measuring from the bottom of the furnace,
- the chimney duct is airtight, with the same diameter throughout the length and protrudes approx. 0.5 m above the roof ridge of the building, in order to prevent any interference in the draft,
- in exceptional cases (II & III wind load zone, due to local topography) should use chimney cowls to prevent the reverse draft.

Attention!

In cases when the chimney ducts:

- are of smaller size and diameter than recommended,
- are in buildings located in a spot at a disadvantage (i.e. , surrounded by tall buildings, buildings in the valleys),
- are tilted vertically and/or contain long horizontal parts,

it may lead to the lack of the desired vacuum (draft) in a duct, which will not ventilate the exhaust, and as a result, the device may emit smoke into the interior of the room.

Before installing the fireplace stove it is necessary to get feedback determining the draft strength of the chimney duct chimney and the possibility of using the existing chimney duct to connect the fireplace insert.

It is assumed that the strength of the draft in the exhaust pipe should be 12 +/-2 Pa. The exhaust pipe with the draft above 12 Pa can lead to overheating of the furnace and loss of the warranty. Minimum draft should be at least 6 +/-1 Pa.

For correct use of the furnace, the device must be connected to the chimney as per the applicable provisions of law. The inlet of the chimney duct should be located in the room where the stove is installed. Use the steel pipe of 1,5 mm or 2 mm thickness. The connecting pipe cannot protrude from the chimney duct. The chimney inlet should be fixed with the insetin and the rosette. Precision and the correct connections are important.

3.2. Ventilation and air access

In rooms with solid fuel furnaces with gravity fumes extraction it is prohibited to use mechanical ventilation devices.

Exception: heating devices adapted for heat recovery systems.

When using the fireplace stove, a sufficient amount of air needs to be supplied to the room the fireplace stove is in. The interiors with the functional fireplace stove should have the air supply to the furnace of min. 10 m³/h to 1 kW of nominal output of the fireplace stove. Insufficient air causes incomplete combustion of the fuel and the exhaust gases containing carbon monoxide may cause smoking to the interior of the house. This is dangerous to life and health, reduces the output of the fireplace insert and does not constitute the basis for warranty claim. The inlet grates of the ventilation system must be secured from closing on its own.

3.3 Fireplace stove installation

Prior to installation, check if it is complete, check the operation of all the mechanisms and the durability of the surround.

Installing the stove, it must be remembered:

- to place the stove on the surfaces with enough carrying capacity,
- remove any third elements and securing elements,
- ensure the sufficient distance required to clean the fireplace and the connector,
- the stove must be placed on the inflammable surface extending for min. 0,4 m from the stove and min 0,2 m measuring from the sides and the back of the stove (See Fig 2),
- the stove must be placed min 2 m away from the flammable materials which could be deformed and/or damaged bu high temperaturę (furniture, wood panels, tapestries etc.) and no closer than 0,6 m from building construction elements, protected from heat and/or flames with applicable inflammable materials.

After installation the furnace it must be accepted by qualified chimney sweeper and acceptance protocol must be made and signed.

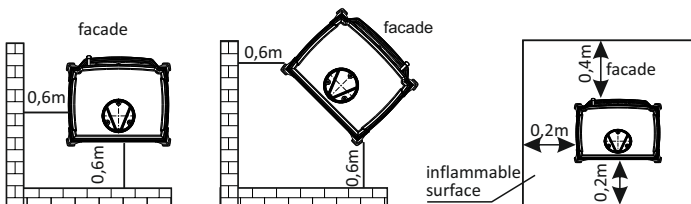


Fig.2. Safe distance from the stove.

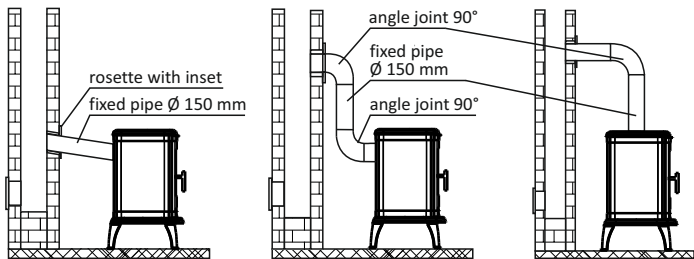


Fig.3. Schematics of fireplace stove connection.

4. First burning

Prior to the first burning, remove all the stickers and equipment located in the ash tray and/or the furnace and check the placement of the movable parts of the furnace such as the deflector and the fireguard.

During the first burning in the stove, maintain minimal temperature and open the stove doors slightly (approx. 1- 2 mm) so the sealing material (the seal) does not fuse with the paint. The paint shall become solid only after a few hours of burning in the stove. All the materials must gradually adjust to the high temperature. During the first burning, each stove emits an unpleasant smell caused by the hardening of the paint. During the smell emissions it is advisable to thoroughly air the room the stove is in. During the heating and cooling of the stove the acoustic sounds can occur – it does not represent any fault of the device.

5. Usage

5.1. Safety

In the course of operation of the device, you must take special care due to the high temperature, risk of burns and the possibility of fire:

- a thermal glove supplied by the manufacturer must be used while using the heating device,
- children must not be allowed to come in the direct contact with the heating device - adult supervision is required when children are close to the device,
- it is forbidden to disassemble and perform any structural changes of the fireplace insert,
- do not use water to extinguish the furnace,
- the stove must not be overheated,
- it is advised to install the carbon level sensor in the room where the heating device is installed,
- it is forbidden to leave the heating device unsupervised while the fire is live,
- it is forbidden to use the device to dry fabrics (i.e. clothes) and to keep the fabrics in its proximity,
- it is forbidden to ignite the fire in the fireplace insert that is not installed,
- during normal use of the fireplace insert, its doors must remain closed at all times.

In case of the sooth ignite, notify the closest Fire Station and chimney sweeper. Until their arrival try to put out the fire using powder extinguisher, directing the spray directly to the chimney duct.

5.2. Igniting the fire

Ignition must take place with open primary and secondary air adjustments. Use paper, small pieces of wood or special ignition chemicals for igniting the fire. Under no circumstances use flammable liquids such as fuel and oil for ignition.

5.3. Adjusting the air supply

The burning process should be adjusted with the designated manipulators. Depending on the model, the fireplace stove has three adjustable air supplies (primary, secondary and tertiary). The primary air supply supplies the air under the horizontal grill and is used for igniting the fuel. The primary air is adjusted by sliding, the adjustable part located on the door facade. The secondary air supply is located above the doors of the stove. The secondary air support the combustion of the gases in the fumes and protects the glass from getting overly dirty at the same time. In some models of the stoves the secondary air inlet can be unadjustable and is performed via a gap in the upper Edge of the glass.

Tertiary air supply flows into the furnace from the orifices in the back of the inner wall of the furnace. It burns further the gases created in the burning proces. The strenght of the tertiary air is sufficient enough to create additional deflector efferc, limiting the heat loss.

During ignintion, when the draft is too weak, the the primary air adjustment must remain open, secondary air adjustment open in half and the tertiary air adjustment closed. After heating the chimney the correct burning prcess takes place with primary air adjustment closed, half-closed secondary air adjustment and adjusting only the tertiary air supply.

The primary, secondary and tertiary air adjustments must be closed when not using the stove. It prevents uncontrollable air loss from the room when not using the stove and prevents emitting a specific smell from the chimney ducts into the rooms when the reverse draft occures.

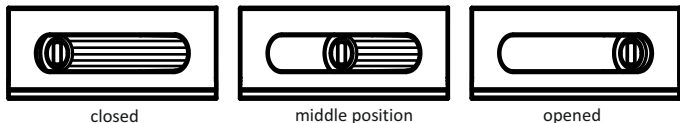


Fig. 4. *The example adjustment of the air supply to the furnace (ash tray facade).*

5.4. Fuel

The only acceptable fuel to be used is seasoned wood or wood briquette. The net calorific value of wood is on average 3,5 - 3,7 kW/kg with the moisture content of below 20%. Only wood with moisture content not exceeding 20% can be used for burning. The moisture content is achieved after approximately 2 years of dry storage. The freshly cut wood has the moisture content of 50-60%. Apart from increased wood use (twice as much) burning of freshly cut wood can lead to corrosion of the elements of the insert, glass getting dirty and faster settling of the soot (creosote) in the insert and in the chimney duct. It is recommended for single fuel loading not to exceed the height of 1/3 of the height of the furnace. It is unacceptable to use of materials other than those recommended, in particular waste materials and flammable liquids.

| Dependency between the calorific value of the wood and its moisture level | | |
|---|---------------|-------------------------|
| Wood condition | Water content | Calorific value |
| Freshly cut | 50-60% | 2,0 kWh/kg = 7,2 MJ/kg |
| Stored in the summer | 25-35% | 3,4 kWh/kg = 12,2MJ/kg |
| Stored for a few years | 15-25% | 4,0 kWh/kg = 14,4 MJ/kg |

6. Maintenance and cleaning

The stove must be cleaned regularly, with the exhaust pipes in particular. It is advised to perform an inspection of the furnace by the qualified person or a company at least twice a year. The chimney ducts must be checked for being airtight and cleaned by a chimney sweeper 4 times per year. The maintenance check and cleaning of the chimney duct must be performed according to the applicable provisions, with particular reference to potential obstructions to the chimney ducts (i.e. clogging due to a bird nest, fallen leaves etc.)

Cleaning of the fireplace glass only allowed using dedicated cleaning products.. It is advised to clean the glass regularly in order to avoid permanent stains/dirt. It is advised to use liquid cleaning products so as to prevent the seals and/or sealants to soak them in. Ash should be removed before a thorough filling of the ash tray, so that the ash does not block the air flow and cooling the grate in the furnace.

Maintenance works and cleaning must be conducted when the stove is cold. It is advised to replace the sealing ropes after the end of each heating season.

7. Spare parts

Only the original spare parts available from the distributor of the fireplace inserts must be used.

Potential sources of furnace malfunction

| Consequences | Possible origin of the fault | Remedies |
|---|--|--|
| Droplets, water condensing in the furnace | Burning of wet wood with reduced burning and closed damper Water going down a chimney duct | Use only recommended fuel Secure the chimney outlet |
| Damaging the sealing ropes of the glass and the doors | Using too much of too strong fireplace glass cleaning products | Use appropriate amount of dedicated fluids to clean the fireplace glass so as not to dribble on the sealing ropes |
| Excessive wearing of the moving cast-iron parts | Insufficient ventilation of the furnace, lack of ventilation of the grill via the ash tray, inadequate fuel | Regularly empty the ash tray, check the air circulation around the furnace, enlarge the orifices and air grates |
| Glass gets dirty fast | Lack of correct draft. lack of external air supply, using wet wood | Check the compatibility of the installation with the regulations, ensure air supply to furnace (i.e. air grate 20x20 cm), use dry seasoned wood |
| Insufficiently heated room | Bad quality wood, insufficient heat from the furnace, choice of the right output of the fireplace insert to the size of the room | Use the recommended fuel, check the air circulation around the furnace - air grates |
| Smoking into the interior of the room while burning | Inappropriate chimney draft | Check the chimney duct, its compliance with the regulations, clean the chimney duct, install the |
| Smoking into the interior of the room while igniting | Cold chimney duct | Pre-heat the chimney duct using more paper while igniting the fire |
| Too big of a fire in the furnace | Too big air supply to the furnace, too big draft, bad quality wood | Limit partially or completely the air supply to the furnace (adjustment on the ash tray façade) check if the damper is not blocked, use recommended fuel |
| Fire difficult to ignite | Wet wood, logs too big, bad quality wood, lack of air supply required for burning, bad draft | Use recommended fuel (hard oak wood) with appropriate moisture level, use small pieces of wood for ignition, supply adequate amount of air for burning, check if the chimney ducts are installed correctly |

WARRANTY TERMS AND CONDITIONS

1. Duration of the warranty:

The warranty period for an efficiently working NORDflam fireplace stove is granted for 24 months for the cast-iron elements and the body of the furnace. The purchase must be confirmed by a stamp from the retailer (on the receipt or the invoice) and legible signature of the seller and the stamp and signature of the company installing the device.

2. The Warrant ensures free-of-charge repairs when manufacturing defect is discovered.

3. The warranty repair is free-of-charge, the Warrant ensures to answer the customer warranty claim within 14 days from the date of the claim and to settle the claim in the fastest possible time period. If removing the fault requires an increased effort and /or importing the spare parts, the above mentioned time can extend and the customer shall be notified about the fact.

4. Defects and damage of the device must be reported in writing at the point of sale where the product was purchased. The Buyer is obliged to present the correctly filled warranty card along with the document of purchase (i.e. receipt).

5. The warrant does not bear any responsibility for the lack of and the damages caused by faulty installing and using of the device (installed and used not in accordance with the provisions of the hereby manual and the provisions of the applicable law) The warranty is given for the device installed only by the persons and companies specialised in this field of work.

The warranty does not cover the damages caused by:

- using fuel other than recommended wood,
- flushing furnace with water,
- rapid lightening of the fire in cold furnace,
- mechanical damages,
- inadequate conservation,
- corrosion - the stove must be protected from moisture,
- inadequate chimney draft,
- transport - related faults and damages.

6. The warranty does not cover:

- heat-resistant glass ceramics - the furnace is equipped with the heat resistant glass up to 750°C, which significantly exceeds the temperature in the furnace during burning process The damage of the glass can be caused only due to inadequate manipulation or conservation of the equipment and as such does not fall under warranty,
 - seals and ropes - are subject to natural wear during operation of the device,
 - furnace elements (grill, vertical grill – fireguard, deflector, inner walls and ash tray), which damage may be caused when using inadequate fuel, overexploiting the stove or incorrect installation of the device,
 - decorative layers on the surface of the fireplace insert.
7. Any damage caused by improper installation, operation or maintenance of the device and other causes not attributable to the manufacturer, can be removed only at the expense of the user.
8. The warranty is given only for the devices purchased and installed in Poland.
9. The warranty does not exclude, does not limit nor does not suspend the buyer's rights arising from the provisions of the implied warranty for defects (OJ no. 2014, pos. 827 and OJ 2014, pos. 121, as amended) Provisions of the Civil Code shall apply in matters not regulated by this warranty.
- I hereby accept and agree to the warranty conditions.

Buyer's signature.....

WARRANTY CARD FOR THE BUYER

NORDflam Fireplace insert

Name of the device

Date of purchase (warranty start date)

BUYER:

Name:

First name:

Address: street house no.....

Citypost code

.....
Stamp and signature of the dealer

.....
Stamp and signature of the company
installing the device

**MANUAL AND THE INSTALLATION INSTRUCTIONS OF THE NORDflam FIREPLACE INSERT
ARE THE INTEGRAL PART OF THE WARRANTY CARD.**

**I hereby declare that I have read the instructions for the installation and operation of the
NORDflam fireplace insert and its warranty terms.**

.....
owner's signature

WARRANTY REPAIRS

| Notes | Date | Signature of the service technician |
|-------|------|--|
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The manual is valid from 1.01.2017 until the next version is released