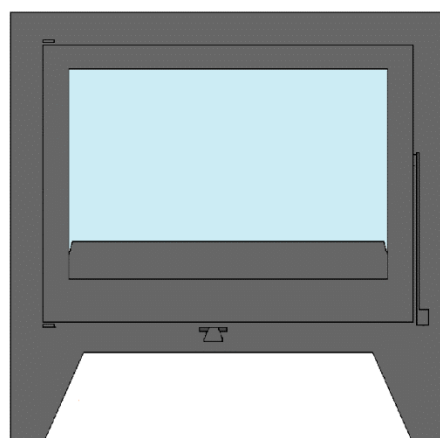
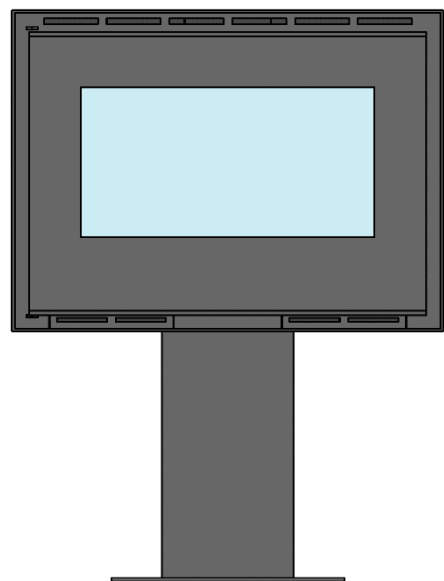
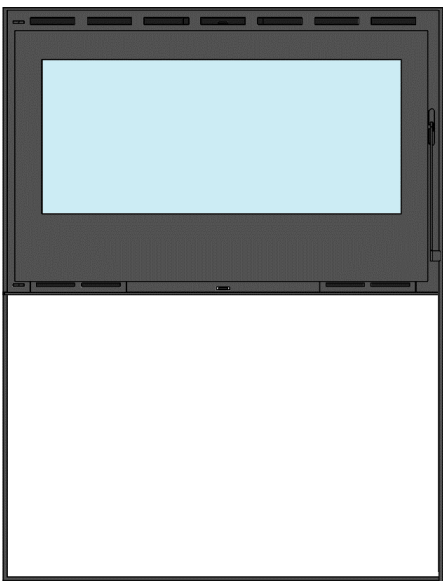


METLOR

puro calor

INSTRUCTION MANUAL



WOOD STOVE

metlor.com



INSTALLATION MANUAL AND OPERATION

WOOD STOVES:

X1

TUGA

ECOBIX

BEFORE USING THE PRODUCT FOR THE FIRST TIME,
READ THE INSTALLATION AND OPERATION MANUAL.

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Introduction

Welcome to the snuggle comfort of **Metlor products**. We appreciate your confidence in our heating solutions. We manufacture our products using high quality materials and raw materials by applying the most advanced manufacturing methods to place high safety products on the market. We develop our products to provide customers with the beauty and comfort of fire combined with a modern and elegant designs.

BEFORE MOUNTING, INSTALLING AND USING THE APPLIANCE, READ THE OPERATING AND INSTALLATION MANUAL CAREFULLY AND FOLLOW THE INSTRUCTIONS CONTAINED THEREIN. THIS WILL ENSURE THE SAFE AND EFFICIENT OPERATION OF THE FIREPLACE. FAILURE TO COMPLY WITH THIS OPERATING AND INSTALLATION MANUAL MAY INVALIDATE THE WARRANTY AND PUT YOUR HEALTH AT RISK.

This appliance is CE marked and complies with the following standards and regulations:

EN 13240: 2002 "Room heaters fired by solid fuel – Requirements and testing methods".

EN-16510-1: 2018-08 Standard "Inserts, including fireplaces, using solid fuels. Annex F - Requirements and testing methods for emissions".

Commission Regulation (EU) 2015/1185 of 24 April 2015 "Ecodesign - Ecodesign requirements for solid fuel local environment heaters. Annex II - Eco-design requirements"

DECLARATION OF CONFORMITY OF THE MANUFACTURER

We declare that the materials used in the composition of our biomass appliances are asbestos free and that there is no cadmium present in the material used for welding, in compliance with the relative European harmonized norm

THE PRODUCT MUST BE INSTALLED BY A QUALIFIED TECHNICIAN AND USED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS MANUAL. ALL LOCAL REGULATIONS, INCLUDING NATIONAL AND EUROPEAN STANDARDS, MUST BE RESPECTED. CLEANING AND MAINTENANCE OF THE CHIMNEY SHOULD BE CARRIED OUT PERIODICALLY AND PREFERABLY BY QUALIFIED TECHNICIANS.

1. ABOUT THE PRODUCT

The wood stove consists of a structure designed in carbon steel (S235JR), all of it cut into CNC laser to ensure consistent quality and always reproduced with equal accuracy. The welds are performed by qualified personnel and formed in the MIG/MAG welding system with 1.0mm wire duly certified. The wood stove has a high temperature paint finish (650°C).










The glass used on the doors are ceramic and resistant to temperatures up to 900°C.

1.1. TECHNICAL CHARACTERISTICS

Details	Unid.	X1	TUGA	ECOBX
Max. Heat Output	Kw	9,7	9,7	9,7
Nominal Power	Kw	7,8	7,8	7,8
Efficiency	%	80,7	80,7	80,7
Fuel Load (Nominal Power)	Kg/h	2,40	2,40	2,40
Length of wood logs (Max.)	Cm	45	45	45
CO emission (13% O ₂)	mg/Nm ₃ (%)	1060(0,085)	1060(0,085)	1060(0,085)
Emission OGC (13% O ₂)	mg/Nm ₃	85	85	85
Emission Nitrogen (13% O ₂)	mg/Nm ₃	112	112	112
Particle Emission (13% O ₂)	mg/Nm ₃	36	36	36
Temperature Combustion products	° C	245	245	245
Time between recharges at Nominal Power	Hours	0,75	0,75	0,75
Safety distances	Cm	Front 100 Rear 25 side 25		
Dimensions				
height	mm	1020	704	1020
width	mm	750	735	750
depth	mm	410	400	410
Chimney diameter	mm	150	150	150
Weight approximates	Kg	~130	~95	~170

Note: The technical specifications and design may be modified without future notice.

2. SAFETY RECOMMENDATIONS

-  - Any change or modification made to the original equipment or components will immediately void the manufacturer's official warranty. In case of incorrect or inadvertent use of the equipment, the hand manufacturer assumes any responsibility for damage caused.
-  - When installing the appliance, all local regulations, including those relating to national and European standards, must be complied with.
-  - Attention to children and babies because they do not understand the dangers. It's important to educate to avoid burns or other accidents.
-  - The installation/repair of the appliance may only be carried out by qualified persons.
-  - Before installing or starting, read carefully and follow the instructions in this manual.
-  - It is recommended that you leave enough space around the appliance for cleaning and maintenance.
-  - If there is any abnormal smoke during normal use, it is recommended to stop the burn process and verify the situation, immediately extinguish the fire, and ventilate the area, after the stove has cooled down, try to identify the problem and if necessary, call the specialized technical service.
-  - During fuel refill or when in contact with the appliance, always use a heat-resistant glove or other means of protection that prevents any type of skin burn and accident.
-  - In the event of a chimney fire, you must act first on the primary air intake by closing it and maintain the appliance door closed. Contact your local fire department.

3. INSTALLATION AND ASSEMBLY

WARNING: The installation of the equipment must follow and comply with all local regulatory standards, including national and European standards.

NOTE: It is recommended to read chapters 1, 2 and 3 before installing.

If you identify any anomalies at the time of delivery or any defect due to transportation, contact your supplier.

3.1. PREPARATION

- The equipment must be installed in a place where there is plenty of air.
- The installing base of the appliance must be prepared for a permanent load of 1Kg/cm². If this is not the case, a base/plate, larger than the surface of the stove, should be used where the load is evenly distributed.
- The appliance must be installed in such a way that it is at a distance from combustible materials of at least the side/back and the front of 1000 mm.

Place an air intake grill, if necessary, at least 100 cm² and in a way that it is not possible to obstruct it.

If there are fans or extractors in the same compartment, they may cause problems in the evacuation of the fumes when in simultaneous operation.

- The minimum pressure in the chimney for rated power operation will be 12 Pa, if this value is not achieved in your chimney, it may compromise the correct operation and even cause fume accumulation in your home or on the other hand consume a lot of firewood.
- Make sure that the chimney flue when passing through walls, false ceilings, or wood structure attics, come within a safe distance from flammable materials.

3.2. CHIMNEY AND ITS CONNECTIONS

- The stove must be installed in such a way that the smoke outlet is as ready as possible, and at least 5 cm away from the wall to ensure air circulation.
- The curves, to exist, should not have angles greater than 45°. The exit outside must exceed at least 50cm the nearest obstacle and the cover to obstruct as little as possible the smoke outlet. The metal tube for the smoke outlet must be indispensable away from any combustible material.
- For more than one equipment or open fireplace, the same chimney should not be used.
- Place insulated flues on outdoor chimney installations. Maintain a 1.5m(min.) safety zone.

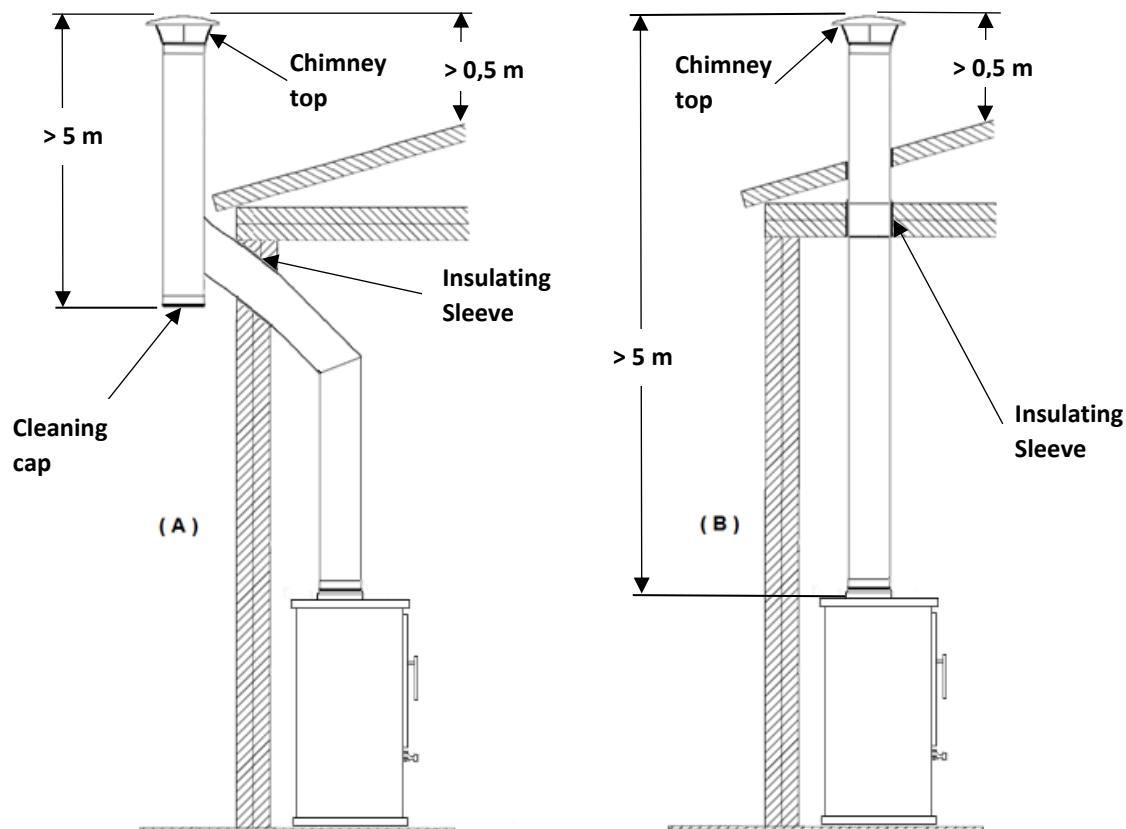


Figure 2. Example of chimney installation

- The same chimney should not be used for more than one wood stove or fireplace. In the collective chimney, the flue should reach the top of it.
- Do not use chimney flues/duct that are not appropriate, (ex.: air exhaust ducts.)
- In the case of a chimney, existing or new, it is advisable that the flue goes to the top, this way there is a better smoke evacuation, and it avoids smoke return.

3.3. VENTILATION FOR THE APPLIANCE

When choosing the location for the appliance, and during its installation, care must be taken to ensure the correct air circulation and an appropriate balance between inlet and outlet of air in the room (if the amount of air is too small, it will damage the combustion process and toxic combustion gases may be produced);

- ventilation must be provided to the room where the stove is installed;
- it is estimated that it takes about 8m³ of air to burn 1 kg of wood;

3.4. INSTALATION OF THE APPLIANCE

- the stove must be placed a safe distance from any flammable materials (the walls or other surfaces around the wood stove may need to be protected);
- it is forbidden to install the wood stove in bedrooms, bedrooms, and rooms where there is another heating device without independent air supply;
- the base of the stove must be smooth, level and constructed of non-combustible material;
- the wood stove can be installed anywhere, provided it is positioned at an appropriate distance from insulation and a safe distance from flammable surfaces;
- the support structure must be carried out in non-flammable and heat-resistant materials with thermal resistance;
- the accommodation must be carried out in non-flammable materials;
- the distance between the insulation materials and the stove must be at least 10 cm;
- it is best not to isolate the flue tube in the inside, this will ensure a more effective heat in the room;

4. USE AND MAINTENANCE

For the proper use of the wood stove, a complete reading of the manual should be made, in particular chapters 1,2 and 3. Remove all labels and stickers that may exist on the glass and body of the stove. Check that all components are safely in the correct position in the appliance: glass, vermiculite plates and baffle plate. Not correcting any irregularity in these components may affect the proper functioning of the wood stove.

Please note: All local regulations should be respected, including national and European standards.

4.1. FIRST USE

It is advisable to do a moderate burns and lower fuel loads in the early uses, about 50% of the nominal load (see table 1). In the initial period of use, the appliance is in a state of stabilization of its materials, so we recommend lower intensity burns to avoid causing damage to the structure and paint.

Note: When lighting the appliance for the first time, the paint on the appliance may become soft and then harden (final curing of the paint). It is important not to touch the surface during this hardening process. Fumes and odors may be released during the hardening of the paint, it is important a proper ventilation during this process.

4.2. FIRING UP AND AIR REGULATIONS

The wood stove shall be lit as follows:

- Fully open the primary air throttle in the center below the door.
- Place well-dried firewood stacked horizontally with small wood shaves and pieces of firewood at its base. You should place the lights on the base next to the little firewood, light up, and then close the glass door.

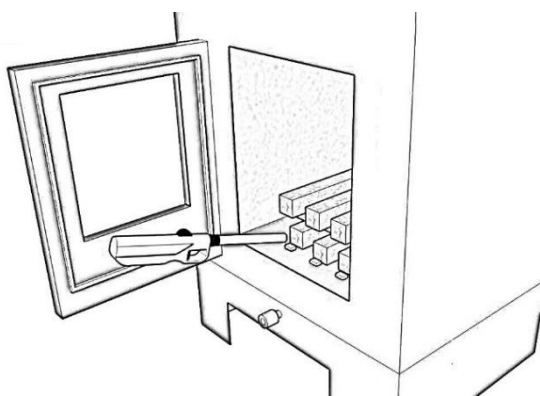


Fig. 3 – Example of chip arrangement in the lighting phase with firelighters in the front area

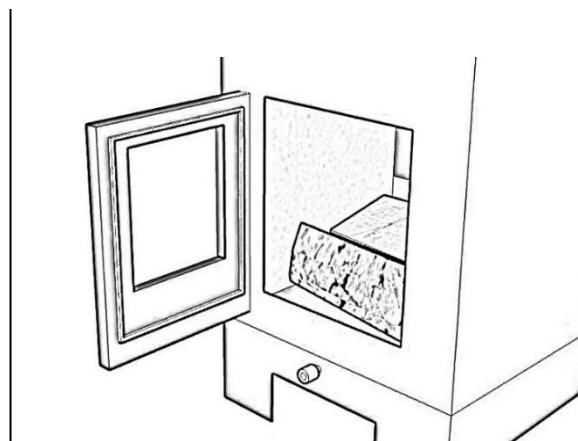


Fig. 4 – Example of the arrangement of firewood in the working phase and stove refills.

- **Note: The stoves, are to always operate with closed door, (except for refueling) this will avoid leakage of smoke and ashes into the living space.**

- When refilling the machine, always open the air throttle completely, allow 10 - 15 seconds to pass until there is a good fire, then open the door slowly so that there is no smoke drag. You should let the firewood burn completely and refuel with live embers. This maximizes the stove efficiency and minimizes the risk of smoke coming out.

- For the wood stove to function properly, it is necessary to guarantee a well-ventilated installation compartment.

4.3. GENERAL INFORMATION FOR USE

- The use of this type of stoves simultaneously with other types of equipment, requiring a ventilation inlet, e.g., brazier hoods, stoves, etc. may require the need for extra air intakes, and the installer/user must ensure the necessary ventilation so that the equipment can operate simultaneously.

NOTE: Never overload the stove with fuel. Overuse of the heat recovery stove may cause permanent damage to its structure not covered by the warranty.

4.4. RECOMMENDED FUELS

- In this type of equipment should be used only dry firewood, and not other types of firewood that is contaminated, either by paints, varnishes, or additives. The use of green firewood impairs the function and causes condensations that manifest themselves in the dirt of the glass. This equipment should not be used as incinerators and no other non-recommended fuels, in particular liquid or solid fuels such as coal, should be used.

List of the most common used types of firewood.

Common Name	Scientific Name	smoke	Calorific power	Combustion speed	Firing
pine	Pinus	little	strong	fast	easy
cork oak	Quercus Suber	little	Very Strong	medium	easy
eucalyptus	Eucalyptus	Very much	medium	slow	difficult
holm oak	Ilex Quercus	little	Very Strong	slow	difficult
olive tree	Olea	little	Very Strong	slow	difficult
oak	Quercus	little	strong	slow	difficult
chestnut tree	Castanea	medium	strong	slow	difficult

NOTE: It is recommended to use firewood with less than 20% moisture (18 to 24 months of seasoning)

4.5. PROCEDURES IN CASE OF EMERGENCY


The accumulation of creosote can result in a chimney fire, which can extend to the entire building. It is important to clean the chimney periodically.


NOTE: IN EMERGENCY SITUATIONS, EXTINGUISH AND FIRE covering the fuel WITH SAND OR COLD ASH. NEVER USE WATER!


In the event of a chimney fire, do the following:


- cut off the airflow (primary throttle) to the stove;
- securely close the wood stove door;
- call 911 to alert the local Fire Department.


4.6. MAINTENANCE AND CLEANING

 - The body parts of the wood stove, metal and glass, are subject to high temperatures, so it is recommended to avoid physical contact.

 - Cleaning the drawer and its ashes and excess of ashes in combustion chamber should be done regularly, this way the equipment has a more efficient combustion and higher performance.

 - The glass should be cleaned when the wood stove is cold. Cleaning should be done with suitable products, always follow the instructions on the labels of these products. It is necessary to avoid contact of these products with gasket cord, the gasket is glued with high temperature glue that does not react well with these products and may fall off, if this happens, reapply a new gasket with high temperature glue.

 - The metal parts should be cleaned with a dry cloth. Do not use water or wet cloths as this may cause rust to appear. It may be necessary after some time some paint touch-ups, always use high temperature paint recommended by the manufacturer or supplier.

 - It is recommended that at least once a year, the entire chimney flue be cleaned, because over time, soot derived from the burning of firewood is accumulated, and consequently decrease the stove's performance. It may even cause the smoke to backflow and enter the installation compartment. In more severe cases, fire may even occur in the chimney itself. Below, are important instructions on how to access the second baffle maintenance plate through the firebox and remove the accumulated soot and ash in the chimney.

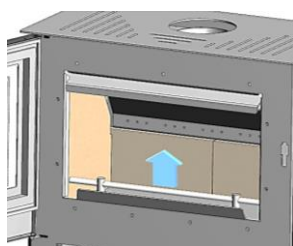


Fig. 5 – Lift and remove front bar

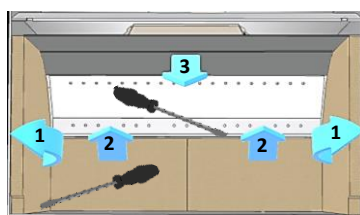


Fig. 6 – Using a tool, remove vermiculite plates following the order above.

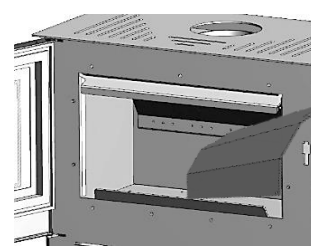


Fig. 7 – Finally, remove the main baffle. Part N^o 3 in the figure on the left.

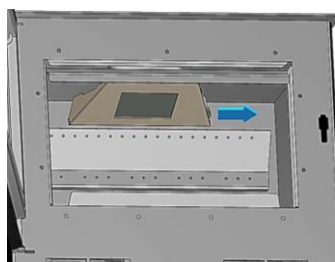


Fig. 8 – Access secondary baffle and slide the plate using the tab on the right.

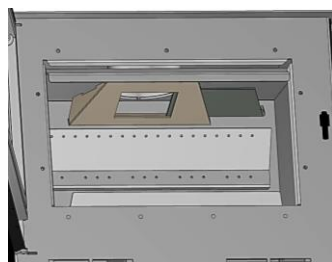


Fig. 9 – Here is a view of the baffle plate open



Fig. 10 – Use the QR code above to view the full procedure with a smartphone.

5. MORE FREQUENT PROBLEMS AND THEIR RESOLUTION

problem	Possible cause	solution
The Stove emits smoke.	- Unsuitable handling of it.	- Fully open the air throttle.
	- Cold fume duct.	- Insulate the chimney/Preheat the stove.
	- Smoke duct obstructed.	Inspect the flue and connections to check if it is obstructed or has excess soot.
	- Smoke duct oversized or narrow.	- Reinstall with a suitable diameter.
	- Insufficient flue draft	Add more length to the flue.
	- More than one device connected to the flue.	- Switch off the other appliances and seal the connections.
	-Negative pressure in the room	- turn off any high flow extractor or place a new vent for more air supply.
Insufficient heat	- Unsuitable handling of the stove.	- Fully open the air throttle.
	- moist or poor-quality firewood	- Use ready to burn firewood. Air-dried for at least 2years.
	- Low air throttle	- Increase the primary air throttle
	- Fume duct with air filtration	Use an isolated heater system
	- Exterior masonry of cold	- Thermally insulate the space
	- Heat loss in the house	- Seal the windows, openings, etc.
Uncontrolled combustion	- Poorly sealed or open door	- Close the door close well or change the gasket cord.
	- Excessive draft	- Close the throttle a bit or install a sweeping valve
	- Oversized fume duct	- Reinstall with a suitable diameter
	- Strong winds	- Install a suitable flue cap
Glass dirty	- Poor quality or moist firewood	- Use ready to burn firewood. Moisture from firewood must be less than 20%.
	- Very low air throttle.	- Increase the air inlet by opening the throttle a little more.
	- Spoor flue installation	- Guarantee a 12 Pa pressure in the flue duct.

6. WARRANTY

Stoves can only be installed by qualified personnel.

This product has a three-year warranty, which consists of the free replacement of factory parts, or repair of the parts that are defective due to flaws or manufacturing defects.

Parts replaced during the validity of the legal warranty will be warranted for the remaining time of the product warranty.

Parts replaced after the warranty period will be covered for a period of 12 months from the time of delivery.

In the event of a warranty repair request, service personnel will take steps to restore the product as soon as possible after the request. No compensation will be paid for the period that the stove is not operating.

N.B. All costs (repairs, transport, etc.) that are charged to the manufacturer or operator for an incorrect use of the warranty rights by the purchaser shall be borne by the user.

Upon expiration of the warranty, all costs and expenses of any intervention will be charged, according to the applicable rates.

DISCLAIMER OF WARRANTY

All wood-fired equipment is developed and tested under the European directives in force, the warranty period should be established by the regulatory commercial authority.

- We recommend that when you receive the equipment you have purchased, you check that it matches the model you have chosen and that it does not present visible damage, such as scratches, dents, or other aesthetic defects. At this point, make sure that you are given the respective proof of purchase and the instruction manual, as these are mandatory in case of requesting support under the warranty. In the event of any of the above-mentioned situations, **DO NOT ACCEPT THE PRODUCT**, unless by mutual written agreement with the entity that sold the equipment undertakes to restore normality or access a price reduction.

- Before installing the equipment, refer to this manual, if in doubt **DO NOT INSTALL**.

- In wood heating products, it is not possible, on the part of the manufacturer, to guarantee that the equipment works according to the standards for which it was designed without the user being responsible for its cleaning, maintenance, important factors for proper operation and performance. **Thus, it is up to the user to prove these maintenance/cleanings tasks identified in the respective instruction manual. These are fundamental conditions for the warranty not to expire.**

- We warn you that anomalies caused by lack of cleaning and maintenance are not covered by the warranty and costs shall be charged to those who requested the respective request for assistance.

- Also in this chapter, we always recommend that you always use dry and ready to burn firewood with less than 20% moisture content.

- In the equipment, there are elements that wear out naturally with daily use (such as handles, paints, glass, etc.), thus not being considered as anomalies.

Thus, we identify as elements of rapid wear:

- Vermiculite plates for the combustion chamber.
- Grill and burning ashtray.
- Flame deflectors
- Gasket cord
- Paint discoloration
- Glass is **NEVER COVERED BY THE WARRANTY**

Other things to keep in mind:

- Structural damage caused by excessive combustion **is never covered by the warranty.**

METLOR disclaims any liability for any damage that may directly or indirectly derive to people, animals or property as a result of non-compliance with all the requirements set out in the User and Maintenance Manual. In the event of a dispute, the court will be in the district of Viseu, Portugal.

Damage caused by incorrect shipping and/or movements is excluded from the warranty.

The warranty expires in the event of damage caused by unauthorized personnel, weather conditions, natural disasters, lightning strikes, fires, malfunction of the electrical network and for absence or incorrect maintenance in accordance with the manufacturer's instructions. The warranty expires if there is evidence of oxidation of any kind in the stove.

REQUEST TO INTERVENE

The request for intervention must be sent to the dealer. This will forward the call to the technical service.

METLOR disclaims any liability in the event that the product and/or any other accessory is misused or modified without authorization.

For each replacement, only original METLOR spare parts should be used for each replacement.

AT THE CUSTOMER'S EXPENSE

Supported by the customer after the first ignition and, in case of proceeding autonomously, read the instructions:

- . Explanations of the operation of the salamander.
- . Adjustment of the parameters used.
- . Glass components is completely excluded from the warranty.
- . All external accessories to the stove are not interventional or related to the equipment warranty.
- . At the time of purchase of the equipment, it is up to the user to study the characteristics of the product (instruction manuals).
 - . Natural wear and tear of the paintwork, breakage of handles and all accessories worn by the current use of the equipment, are not covered by the warranty.



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