# TROLLEY

# INSTALLATION, USER'S AND MAINTENANCE HANDBOOK

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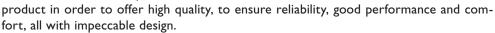
PROGRAMMING INSTRUCTIONS

## **PRESENTATION**

Dear Customer, We would first of all like to thank you for choosing an ECOWOOD product.

Our ECOWOOD stoves and inserts are the result of experience and technical innovation acquired after years of work in the energy sector.

Our research and innovation activities are aimed at continual improvement of the



Please read this handbook carefully and follow the instructions and advice meticulously. This will guarantee optimal use of the product and exploit its advantages to the full.

You have bought a stove that has been designed to be safe, practical and economically advantageous in terms of the high efficiency it is able to achieve.

Nevertheless, it is important to be well acquainted with the apparatus if it is to be operated as efficiently as possible and in complete safety.

The device must be installed correctly for safety reasons and to ensure proper operation. The stove should **never** be used by people who do not know how to work it.

Keep children and animals away from the stove when it is in use.

**This handbook** has been written by the manufacturer and **is an integral part of the product**. The information it contains is intended for the user and for all those who for various reasons contribute to the installation, use and maintenance of the product.

Before commencing installation or using the stove, read the whole of this **user's and installation handbook** carefully and then keep it in a safe place for the whole working life of the stove.

In the following pages you will find all the instructions you need for **installation, operation and maintenance**, as well as a number of safety rules to be followed.



If you have any doubts or uncertainties on how to use the equipment, please get in touch with the Ecowood sales point.

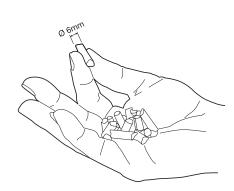
The retailer will be able to supply you with all the necessary information.



This stove operates only and exclusively with pellets (pressed wood sawdust). Top quality pellets without impurities should be used.

In order to obtain a constant flame with a pleasing appearance it is important to use 6 mm diameter pellets that are about 20 mm long, and as regular as possible.

The stove needs a flue gas exhaust pipe of 60 mm diameter and a combustion air inlet pipe of 40 mm diameter.



Where possible, we recommend installing a T-pipe for inspection at the stove exhaust gas outlet, in order to recover the burnt microdust, and also a steel pipe two metres high, to be connected to the existing flue in order to discharge the flue gas.

This device will prevent smoke formation inside the rooms should there be a power failure for any reason during stove operation.



# STANDARD EQUIPMENT:

- User's and installation handbook.
- The stove is supplied with an adapter flange to increase the diameter of the flue gas exhaust outlet from the stove from 60 to 80 mm. This accessory is used to fit the diameter of the flue that is to be used or made.
- Remote control.

# **OPTIONAL EQUIPMENT:**

- · Wall smoke flue with quick closure.
- External digital thermostat for the room.
- · Room thermostat included in the stove.
- GSM telephone modem (to allow control of the stove from a remote location).

# IMPORTANT INFORMATION REGARDING SAFETY

#### PREPARATIONS FOR INSTALLATION

• In order to prevent the possibility of fire, make sure that the apparatus is installed correctly by carefully following the instructions of this handbook.



- Do not place the stove in rooms where curtains, carpets or other furnishings could burn due to the heat generated by the stove.
- · Do not position the stove near curtains, inflammable or combustible material.
- When installing the stove, make sure that is properly connected to an earth point using the (green-yellow) electric cable.
- The plug for connection to the main power supply must be accessible when the stove is installed.

# IMPORTANT INFORMATION FOR THE USER

#### Fuel used

This apparatus has been built to burn only 6 mm diameter pellets (pressed wood). It is very important to choose a clean, top-quality pellet without impurities.

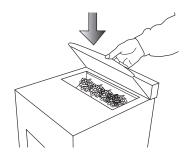
For the stove to work properly and safely it is necessary to use pellets that comply with the following standards: DIN 51731 and ONORM-M 7135 (thermal value, residual humidity, diameter, quality of wood used...).

Ecowood cannot assume liability for poor operation of the stove if poor quality pellets are used.

- Use only pellets and **never** put other inflammable or combustible material in the stove.
- Do not use the stove as an incinerator or for any purpose other than that for which it was intended.
- · Do not use liquid fuel.
- Keep your stock of pellets at least one metre away from the stove.

# Important instructions before ignition

- Make sure that the hopper door (pellet tank) is closed when the stove is in operation.
- Make sure that the fireplace and ash box doors are properly closed.
- Before lighting the stove make sure that all moving parts have been assembled correctly in their respective positions.



- The gas output system works by negative pressure in the combustion chamber, therefore slight positive pressure is formed in the flue gas exhaust pipe; for this reason it is very important to ensure that the exhaust pipe is free of blockages and fully sealed until it is outside the building.
- To ensure good combustion, make sure that the exhaust pipe and also the combustion air input pipe are clean.
- It must be possible for all stages of the flues to be inspected and removed so that interior cleaning can be carried out.

# Recommendations for using the stove correctly



- Make sure that the combustion crucible is always clean; if necessary, remove it when it is cold and clean the holes with a metal scraper, empty the dust from the tray containing the crucible. This operation guarantees a good combustion.
- Clean the combustion chamber every day before lighting the stove and remove any ash residues deposited on the crucible and walls.
- Clean the glass only when it is cold, so as to prevent the risk of burns or scalds, or breakage or cracking of the glass itself.
   Use special products for cleaning glass and the body work.
- Take care not to knock against the stove as this could cause permanent damage.
- If the glass is cracked or broken do not attempt to light the stove.
- · Do not open the door of the hearth when the stove is lit.
- Always follow these instructions precisely when lighting the stove.
- We advise you not to leave the stove unattended while it is operating.
- When the stove is not working, you are advised to unplug it from the mains.
- Do not perform any unauthorised modifications on the appliance.
- Only use spare parts recommended by the manufacturer.

# How to proceed when lighting the stove for the first time

For the first few hours of operation the stove will give off an odour caused by stabilisation of the paint and protective grease; to lessen the discomfort, air the rooms well.

#### **Advice**

For the first few hours of operation, the gasket on the door of the hearth may stick to the stove. If this happens, remove the seal from the stove, dust it with ash (it acts as an excellent anti-adherent coating) and insert it in its position in the door without using any type of adhesive.

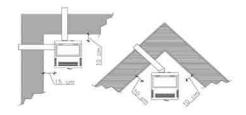
# INSTALLATION



The stove must be installed by qualified personnel, who must diligently follow all the rules for correct installation, respecting all the relevant technical, legal and safety standards in force at the time.

When positioning the stove respect the distances shown in the drawing on the right.

Place the stove away from curtains, fabrics, ornaments or anything else that may cause fire.



If the stove is positioned near a woodlined wall or the gas exhaust pipe is in contact with similar material, insulate the material with suitable fireproof or fire-resistant products.

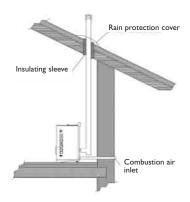
Connect the flue pipe of your stove to an existing chimney or, alternatively, install a fume exhaust pipe outside the building. The pipe must have a minimum pipe diameter of 80 mm and reach higher than the top of the roof.

If the stove is installed in a building with potentially inflammable walls, it will be necessary to place an insulating sleeve between the wall and the flue gas exhaust pipe and similarly for the overhanging part of the building's roof.

A T-pipe for inspection should always be installed between the flue gas outlet on the stove and the flue itself.



If the gas exhaust pipe is installed as in the drawing on the right, a rain protection cover will be needed in addition to the requirements listed above.



If the stove is to be installed in an existing chimney flue built into the wall, the pipe should be installed along the whole length of the chimney flue in order to prevent condensation that would mark the walls.



#### **COMBUSTION AIR INLET:**

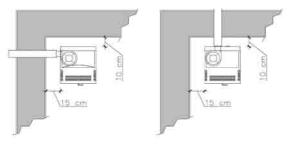
In order to guarantee good combustion, the stove must receive enough air to ensure the fuel receives sufficient oxygen. Connect the combustion air inlet to the outside so that it cannot be obstructed, even partially, in any way. If the stove cannot be connected directly to the outside, it is possible to install a permanent ventilation grating: this will guarantee perfect combustion (and hence lower pellet consumption with less ash accumulating in the hearth) and will prevent health risks for those using in the room.

Between the stove and the floor, if the latter could be inflammable, be sure to insert heat protection, ensuring it protrudes at the front and sides by at least 20 cm.

Connect the power supply cable to a 230 volt mains outlet.

Make sure that the body work of the stove is earthed correctly.

NOTE: it is possible to change the direction of the flue gas outlet, (standard, on the back inside the stove) so that the outlet can be on the left side, looking at the stove from the front. To take advantage of this possibility it is necessary to disassemble and turn the flue exhauster motor screw through 90°, tighten the screws in the new position and make an



65 mm hole on the desired side (this modification must be done only and exclusively by the installer).

# **OPERATION**

- After installing the stove as described above, fill the tank on top of the stove with the
  pellets through the door on the stove. The tank should always contain enough fuel to
  guarantee a regular supply to the stove and the door should be closed during operation.
- Make sure that the crucible is correctly inserted into the tray. If the crucible is not
  inserted properly or is very dirty it may cause poor combustion or the fire may not
  ignite.
- Make sure that the hearth door and the ash collection drawer are closed properly so
  that smoke does not escape, moreover, excessive air infiltration will increase smoke
  production and deposit more dirt in the hearth and on the glass.
- During the ignition stage (25 minutes), the pellet loading rate is that setted by the manufacturer and cannot be changed.
- The hot air fan comes on automatically about 15 minutes after ignition, at the first speed, and levels itself at the selected power for the normal operating cycle, 25 minutes after ignition.
- It is possible to adjust the hot air fan separately from fuel loading rate (only for the first two power levels); the two functions are currently set proportionately by the manufacturer.
- To switch off the stove completely just press the ON/OFF button again; after the flame
  has gone out the stove will remain in operation for about 25 minutes until all the internal parts have cooled down.

#### **IMPORTANT**

Continuous operation of the stove at maximum power could shorten the life of the electronic and mechanical components, and also reduce safety.

The stove is able to operate continuously for long periods of  $10 \div 15$  hours if the selected pellet loading power level does not exceed the third position.

Using the stove at the fourth or fifth loading rate for long periods will reduce safety, therefore an automatic power limiting device has been installed as standard in the stove.



If the automatic power limiting device is disabled at the user's request (this should be done by the installer technician following an evaluation of the conditions under which the stove is to be used), it is necessary to connect the stove to the flue gas exhaust system using stainless steel pipes, or pipes painted with airtight seals. If the fourth power level is selected we advise operating the stove continuously at this level only if it is alternated hourly with operation at lower load rates, while the fifth level should only be used continuously for a maximum of 30 minutes.

# **MAINTENANCE**

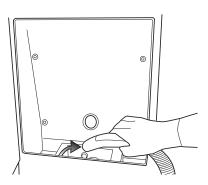


Warning! Before carrying any maintenance, disconnect the power supply and wait for the stove to cool down completely.

#### **ORDINARY MAINTENANCE:**

Weekly, by the user

- When the stove is not ignited and cold, remove and vacuum clean the ashes from the recovery tray.
- Check the crucible and clean the holes if necessary, making sure that all the holes are open.
- Clean any ash residues from the exchanger, the crucible holder, the combustion air pipe and the ignition resistance.
- Clean the hearth and the glass using detergentproducts.





#### **EXTRAORDINARY MAINTENANCE:**

every 2500 working hours, this must be done by a professional technician

- Remove the exchanger and make sure that the flue gas exhaust ducts between the
  exchanger and exhaust box are not obstructed by ash, and clean as necessary.
- Remove the panel fastened down with four screws and clean it carefully, using a vacuum cleaner to suck out the dust deposited inside the exhaust flue and the ash box.
- · Take out the flue exhauster motor and clean the screw carefully.
- · Re-assemble all the parts in the reverse order, oiling the screws.
- After carefully carrying out all necessary checks, the automatic stove operation blocking device should be reset so that the stove will operate for a further 2500 hours.

The advice about regular cleaning and maintenance is only indicative and may vary according to the pelletts quality, therefore whenever you note worsening combustion or increased dirt on the fireplace and glass surface this cleaning should be carried out in any case.



We recommend taking out an annual maintenance contract with the place where you bought the stove. In this way you will be able to programme cleaning of the stove at the end of the season, keep it in working order and ensure it is ready to operate properly the following season.

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#### WARNING

Installation and extraordinary maintenance must be done only by skilled, technical personnel.

- **IMPORTANT NOTE**: if the stove is connected to the outside by a metal flue gas exhaust pipe, two conditions could be deleterious to good combustion.
- I- If the horizontal part of the flue gas exhaust pipe is too long, this will worsen the quality of combustion and noticeably increase ash residues in the grate. For this reason the electronics board has a facility for regulating both the exhaust pressure and pellet loading rate. This should be carried out only by the installer technician, at installation or when conditions make it necessary.
- 2- A vertical metal exhaust pipe that is three / four metres long will increase the combustion rate. This will cause the stove to go out at the minimum power level. To prevent this just increase the selected power level or change the original settings.

#### MAINTENANCE OF THE SMOKE EXHAUST DUCT

- Annually, we recommend cleaning the smoke exhaust duct in order to prevent selfcombustion of any soot and powder that may be deposited there.
- · In case of fire switch off the stove immediately and disconnect it from the power supply.

#### **MOVING THE STOVE:**

Trolley stove can be moved easily on the wheels on which it is positioned. To do this it is necessary to follow the advice below in order to ensure complete safety for the user.

#### WARNINGS

- The stove should only be moved when it is switched off.
- Before lighting the stove make sure that the flue gas exhaust pipe is connected to the chimney. Connect the combustion air inlet to the outside so that it cannot be obstructed, even partially, in any way.

# **OPERATING PROBLEMS AND SOLUTIONS**



Warning! Only skilled technical personnel are allowed to dismantle the stove and work on the internal components.



Before carrying out any operation whatsoever, disconnect the power supply and wait until the stove has completely cooled down.

### 1. If the stove does not ignite, make sure that:

- · It is connected to the electricity supply.
- · The crucible is inserted into its holder.
- The ash collection box is inserted into its holder.
- The door of the hearth is closed.
- Pellets arrive in the crucible; make sure the tank contains sufficient fuel for the stove to operate. If the pellet supply finishes during use, the stove will switch off by itself.
- · The thermal safety switch is activated; otherwise disconnect the power supply, reset the switch by pressing the button on the switch itself, then restore the power supply.
- The combustion air pipe is completely open.
- · The exhaust gas flue allows the fumes to escape. If not this would fail to generate the necessary negative pressure and the vacuum pressure switch would interrupt the power supply to the pellet loading motor.
- · The flue exhauster motor works properly. If it is not working, make sure that it is powered; if there is power and it turns slowly, replace it with a new one (if the flue exhauster motor stops, the electronic board will immediately stop to feeding the pellet).
- The screw motor is working properly. If it is not working, make sure that it is powered; if there is power and it does not turn, replace it with a new one (if the motor reducer stops, the stove will use up the fuel in the crucible and then go out completely).
- The hot air fan is working properly. If it is not working, make sure that it is powered; if there is power and it does not turn, replace it with a new one (if for any reason the fan does not work, the stove will stop automatically, to avoid overheating by activating the temperature cutout).
- · The resistance is red-hot. If it is not working, make sure that it is powered; if there is power and it does not heat up, replace it with a new one.
- The pellet feed screw is not obstructed by a foreign body (remove fuel from tank)
- The vacuum pressure switch has not been blocked by poor combustion or an obstruction in the exhaust pipe (re-activate it by blowing and sucking until you hear the switch come into operation).
- Check whether the stove is ready for programmed cleaning after 2500 hours have expired. The display will show Cleaning/Maintenance message.

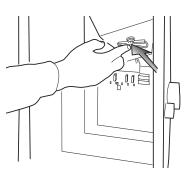
If the problem persists, consult your retailer.

#### 2. If the stove goes out during operation:

- Check all the possibilities in previous section.
- Check whether the stove is ready for programmed cleaning after 2500 hours have expired. The display will show **Cleaning/Maintenance** message.
- Make sure that the thermal safety switch (re-settable manually), on the inside back right of the stove, has been reset.



Before resetting the switch find the reason for its triggering.
 Note that the thermal switch can only be reset with electrical supply off and when the stove temperature has fallen below 93°C.



#### **POWER FAILURE**

**Brief power failure:** if there is a brief power failure (60 seconds), when the stove is at the ignition stage or is operating normally, the stove is programmed to re-ignite itself. If the power failure lasts for a longer, indefinite period, when the power returns the stove will go into an extinguishing cycle, setting up for the next (manual or programmed) ignition. In this case the display will show **Black-Out** message.

To reset the stove functions, switch it **ON-OFF**.

**Temporary power failure:** If there is a power failure lasting 3÷5 minutes, with direct flue gas exhaust pipes the stove may emit some smoke into the room, produced by the unburnt pellets present in the grate.

This does not constitute a safety risk. The problem can be avoided by installing the exhaust pipe as shown on this handbook.

**Electrical safety:** the stove is protected against power surges by two fuses on the electronics board.

#### **ANNEX: ALARM AND NOTIFICATION**

All alarm and notification messages appear on the display, possible causes and solutions.



#### Clock not programmed

Problem: The time and date has not been set.

The timers cannot be used.

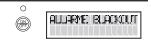
**Solution:** Set the time and date and any timers in the respective menu.



#### Maintenance request for cleaning

**Problem:** There are 100 operating hours left from the time of the message appearing before the stove will be blocked for cleaning.

Solution: Arrange for a technician to clean the stove.



#### Sudden power cutout

Problem: The power has been down for more than a minute.

The stove signals the power cutout and shuts down.



#### Alarm: gases not up to heat

Problem: The discharge gases have become too cold; the embers have gone out. Cause: The pellets in the tank are finished. Refill the tank.



## Alarm: start-up failed

Problem: The stove has not started up.

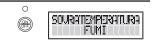
Cause: The brazier is dirty or not properly in place. No pellets.
The element does not work CONTACT THE TECHNICIAN



#### Vacuometer alarm

Problem: Trouble discharging the gases.

Cause: The flue system is obstructed. CONTACT THE TECHNICIAN.



#### Alarm: overheating gas

**Problem:** The temperature of the discharge gases has exceeded the permitted threshold.

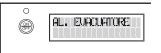
 ${\bf Cause:}$  The gear motor is operating continuously, the gas probe is broken. CONTACT THE TECHNICIAN



#### Alarm: stove overheating

**Problem:** The body of the stove has exceeded the permitted threshold and is overheating.

Solution: The fan is not cooling down the stove. CONTACT THE TECHNICIAN.



#### Alarm: gas evacuator motor

**Problem:** The gas evacuator motor is not working or the board cannot detect its operation.

Cause: The motor is not powered or the tachometer sensor is not responding. CONTACT THE TECHNICIAN

# DECLARATION OF CONFORMITY ( €

According to the Directive **89/106/EEC** (Construction Products), the CE Regulation **1935/2004** (Materials and Articles intended come into contact with foodstuffs), the Directive **2006/95/EEC** (Low Voltage) and the Directive **2004/108/EEC** (Electromagnetic Compatibility).

Type of equipment: Appliance for domestic heating that uses wood pellets.

Trademark: MEC()W()()|) 
Type designation: TROLLEY

Use: Domestic heating

Manufacturer: ECOWOOD Address: Via Borgo, 36 - 36034 Malo (VI) Tel. / fax: 0445 580725 / 0445 602079

Notified laboratory: IMQ primacontrol S.R.L.

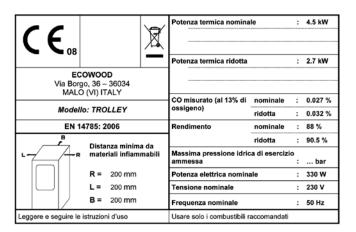
The following harmonised standards or technical specifications (designations) which comply with good engineering practice in safety matters in force within the EEC have been applied:

EN 14785 · EN 60335.1 · EN 55014.1 · EN 55014.2 · EN 50165 · EN 61000-3-2 · EN 61000-3-3

Test report / Technical file: CS-06-111 SI

As the manufacturer's authorised representative established within the EEC, we declare on our sole responsibility that the equipment follows the provisions of the Directives stated above.

Date and place of issue:	
(Name and signature of authorised person:	
(Position in firm)	



### **GUARANTEE**

The guarantee constitutes part of the general conditions of sale and is regulated by EC directives 1999/44, and Italian Legislative Decree 24 of 02/02/2002.

By guarantee we mean replacement or repair without charge of parts acknowledged to be originally defective due to manufacturing defects. The product is guaranteed for two years.

#### The guarantee is valid under the following conditions:

- The stove has been installed by an authorised installer technician who has completed the guarantee form after carrying out final testing.
- The apparatus is used as required in the instruction handbook.
- For the first two years cleaning is carried out by technical staff who have been authorised by ECOWOOD.
- The guarantee is not applicable for damage caused by: weather conditions, chemicals, electro-chemicals, fire, negligence or improper use, failure to observe the legislation in force, faults in the electrical system, lack of maintenance, tampering with the product, an inefficient chimney, the use of unsuitable fuel; the guarantee will this expire.
- THE GUARANTEE DOES NOT COVER: the pellet loading auger gearbox, the ignition resistance, the glass and painted parts.
- · Other failures due to even partial lack of maintenance or incorrect installation.
- The guarantee does not cover damage caused by transport. It is therefore important to check the goods carefully on receipt and notify the retailer immediately if any damage is detected.
- The manufacturer will not be liable for compensation for direct or indirect damage caused by or depending on the product.

#### GUARANTEE - ECOWOOD - Via Borgo, 36 - MALO (VI) ITALY

Owner	
Address	NrTel
PostcodeTown	State
Model	Date Of Installation
Retailer	Installer
Stamp	Stamp

#### **IMPORTANT**

The user hereby declares that he/she has received the Installation, User's and Maintenance Handbook supplied with the stove, and will therefore use the stove as indicated in the handbook itself.

The user also declares that he/she has received all necessary explanations from the sales staff or from the technician at the time of installation.

N.B.The guarantee does not cover parts subject to wear, such as gaskets and seals, glass, pellet ignition resistance, grate, damage caused by electrical discharge or by poor maintenance of the stove.

Date User's signature