UNIVERSALJOLLY and SUPERJOLLY EVO

INSTALLATION, USE AND MAINTENANCE MANUAL

To be kept by the purchaser

WOOD BURNING AIR INSET FIREPLACE
Dear Customer,

thank you for having chosen to heat and save with a Jolly Mec product. Please carefully read and keep this sheet before using the equipment.

This sheet provides necessary information and suggestions on how to correctly install, use, clean and maintain the product. Knowing and observing these instructions will allow you to fully and safely enjoy the potential your equipment can offer you.
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CHAP.01 PREMISES

01.1 WARNINGS

• Familiarity and compliance with the instructions given in this manual will ensure quick installation and correct use of the appliance.

• Read the manual attentively before commencing installation, and be certain to follow the directions it contains, otherwise the warranty could be invalidated and the performance and safety of the appliance jeopardized.

• The installation manual is an integral part of the product and must be given to the user.

• It must be kept in a safe place and consulted carefully, as all of the warnings provide important information on safety during installation, use and maintenance.

• Incorrect installation of the appliance could cause damage and injury to people or animals, for which the manufacture cannot be held liable.

• Installation shall be performed by qualified operators in accordance with the regulations in force in the Country of installation.

• The manufacturer declines any contractual or non-contractual liability for damages caused by errors in installation or use of the appliance or failure to follow the instructions contained in this manual.

• All rights on the reproduction of this technical manual are owned by Jolly Mec Caminetti S.p.A.

• The descriptions and illustrations provided in the following publication are not binding.

• Jolly Mec Caminetti S.p.A reserves the right to make any modifications that may be deemed appropriate.

• This manual cannot be given to third parties for perusal without the written permission of Jolly Mec Caminetti S.p.A

• The technical directions for installation contained in this manual should be considered as basic requirements. Regulations in some countries may be more restrictive; in this instance, comply fully with the regulations prevailing in the country of installation (all laws and local bylaws must be observed when installing and using the appliance, including those referring to national and European standards).

• Never use the appliance as an incinerator, or in way other than that for which it was designed. Any other use is deemed improper and therefore dangerous.

• Do not use fuels that are not recommended under penalty of cancellation of the warranty.

• When the appliance is running, the glass and other visible parts reach extremely hot temperatures to the touch; handle with extreme care to avoid burns.

• Do not place the appliance in direct contact with combustible materials.

• Do not make any unauthorised modification to the appliance. Any unauthorised modification will automatically invalidate the warranty and release the manufacture from all liability.

• Use only original spare parts recommended by the manufacturer. Original spare parts are available through retailers, specialised Technical Service Centers, or directly at the head office of Jolly Mec Caminetti S.p.A.

• Acceptance of the machine by the user must be “total”, including the sound level of operation, comparable to an electrical appliance. Complaints for characteristics not indicated in this manual shall not be accepted.
01.2 SYMBOLOGY

In this manual, points of considerable importance are marked with the following symbology:

**INSTRUCTION:** Instructions regarding the correct use of the appliance.

**WARNING:** This point is particularly important.

**DANGER:** An important point regarding behaviour for preventing injury and damage to materials is expressed.

01.3 APPLIED STANDARDS

All JOLLY MEC products are constructed according to the following directives:

- 2006/42/CE - Machines.
- 2014/30/UE - Electromagnetic compatibility (EMC).
- 2014/35/UE - Low voltage (LVD) - electrical safety.
- 2011/65/EU (RoHs 2) - Restriction of the use of certain hazardous substances in electrical and electronic equipment.
- 2014/68/UE - Pressure Equipment (PED).

And in compliance with the standards:

- CEI EN 61000-3-2 - Electromagnetic compatibility (EMC) - Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase).
- CEI EN 61000-3-3 - Electromagnetic compatibility (EMC) - Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection.
- EN 55014-1 - Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus - Emission.
- EN 55014-2 - Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus - Immunity. Product family standard.
- EN 60335-1 - Household and similar electrical appliances - Safety. General requirements.
- EN 62233 - Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.
- UNI 7129 - Domestic and similar gas systems powered by the distribution mains.
- UNI 10412-2 - Hot water heating system - Safety requirements - Specific requirements for systems with domestic type heating devices powered by solid fuel with built-in fireplace, with total fire power not over 35 kW.
- UNI 10683 - Heat generators operating with wood or other solid bio fuels - Installation requirements.
- UNI EN 303-5 - Heating boilers - Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW - Terminology, requirements, testing and marking.
- UNI EN 1443 - Chimneys: General requirements.
- UNI EN 1856-1 - Chimneys - Requirements for metal chimneys - System chimney products.
- UNI EN 1856-2 - Chimneys. Requirements for metal chimneys - Metal flue liners and connecting flue pipes.
- UNI EN 13229 - Insert appliances including open fires fired by solid fuels. Requirements and test methods.
- UNI EN 13240 - Roomheaters fired by solid fuel. - Requirements and test methods.
- UNI EN 13384 - Chimneys. Thermal and fluid dynamic calculation methods - Chimneys serving more than one heating appliance.
- UNI EN 14785 - Residential space heating appliances fired by wood pellets. - Requirements and test methods.
01.4 USE AND STORING OF THE INSTALLATION AND MAINTENANCE MANUAL

- **Recipients of the manual**
  The use and installation manual is addressed to users responsible for the installation, operation and maintenance of the stove; particular attention must be given the parts of the manual concerning safety.
  If the product is subsequently resold, the user is requested to hand over this sheet and to inform the manufacturer of the name of the new owner, so that the latter may receive any updates issued.

- **Scope of the manual**
  The manual contains information on the correct use of the product in accordance with the purposes for which it was designed and built. It also provides information about loads, commissioning, repair and maintenance of the stove in conformance with the limits set down by the manufacturer.

- **Conservation of the manual**
  The installation and maintenance manual is an integral part of the product and must be conserved up to the time when the stove is dismantled. It must be kept in a protected, dry place out of direct sunlight and near the product so that it is always readily available for consultation.
  Should the manual get damaged, the user must request a copy from the retailer where he purchased the appliance. When requesting assistance, always make reference to the **MODEL, LOT and SERIAL NUMBER** indicated on the label shown in CHAP.05.2 - PRODUCT IDENTIFICATION.

- **Updating the manual**
  The installation and maintenance manual reflects the status of the technology at the time the product was marketed. The manufacturer reserves the right to make modifications to the product, and consequently the relative manual, without any obligation to update previous editions.

01.5 MANUFACTURER'S LIABILITY AND WARRANTY CONDITIONS

Upon the delivery of this manual, Jolly Mec S.p.A. cannot be held liable, whether civil or criminal, for accidents due to partial or total non-compliance with the specifications herein contained.

The manufacturer is especially held harmless from any liability in the following cases:

- Improper use of the product
- Use not intended by specific national regulations
- Incorrect installation
- Faults in the electrical connections, the connections of the fume exhaust system and/or the comburent air ducting system e and in plumbing connections
- Failure to carry out maintenance as prescribed in this manual
- Unauthorised modifications or operations
- Use of replacement parts that are non-original or not specific to the model
- Total or partial failure to follow the instructions
- Exceptional events (e.g.: breakages due to natural or accidental events as lightening, short circuits etc.)
- Damage caused by electrical power cuts, sudden fluctuation of supply voltage, electromagnetic fields
- Use of fuel with characteristics other than those recommended in this manual

In the above cases the warranty is void.

Please refer to Annex **SM083** for details on the warranty conditions and compiling the relative certificate.

**NOTE**
In the event of a malfunction or intervention request by a specialised Technical Service Center, the user must be able to demonstrate the use of fuel with the characteristics required by this manual.

The Manufacturer disclaims all liability concerning anomalies or malfunctions caused by use of FUEL which does not comply with the recommended requirements.
02.1 GENERAL CONSIDERATIONS

- The manual refers to essential aspects of the directives, regulations and dispositions on using the machine, summarising its most significant points.
- General legal regulations and mandatory rules regarding injury prevention and environmental protection must be observed. These obligations also include regulations regarding the use of personal protective equipment.
- For all work to be done on the system, the following dispositions and regulations in force must be observed regarding accident prevention, following the indications.
- Before using the system the first time, the user must have read and understood the instruction manual perfectly and this chapter in particular.
- The user must also make sure that the machine is always in good condition as regards its safety requirements.
- During maintenance and inspection activities, wear the protective garments specified in following CHAP.02.4 - EQUIPMENT FOR OPERATORS AND MAINTENANCE PERSONNEL. Cleaning and maintenance activities may only be performed with the equipment cold and preferably disconnected from the power mains or with the main switch in the “O” position.
- Danger warnings and signals in the form of plates, labels and markings must not be removed or made unidentifiable. If they are worn or broken, they must be replaced.
- Modifications, additions or transformations must not be made on the machine and its components without the manufacturer’s authorisation. This is valid first and foremost for installation and regulation of the installed safety devices. Failure to comply with this warning relieves the Manufacturer of all and any responsibility.
- Make sure, before starting up every time and after carrying out maintenance, that dismantled parts have been repositioned correctly and in particular all the protection devices that impede access to the machine.

02.2 SAFETY REGULATIONS FOR ROUTINE MAINTENANCE AND USE

- The user and/or owner of the product is required, in accordance with the laws in force, to assign the installation and maintenance to qualified and specialised operators, and acknowledge the risks and hazards should they fail to observe this requirement.
- Children of at least 8 years old, people with reduced physical, sensory or mental capabilities, or lacking the experience or the needed knowledge can use the device only under surveillance or having been instructed on the device safe use and on the understanding of the deriving dangers. Children are not allowed to play with the device. Cleaning and maintenance are meant to be performed by the user and not by unsupervised children.
- The settings and programming of the product must only be performed by adults who have received suitable and specific training. Errors or incorrect settings can create hazardous conditions and trigger malfunctions with relative consequences for persons and things.
- Before any cleaning and/or routine or extraordinary maintenance on the machine, disconnect it from all energy sources; in particular, turn the electrical power switch to “O”.
- Prior to installation, the user and installer are obliged to check that the mains electrical supply to which the machine will be connected, corresponds to the voltage on the identification plate (see CHAP.05.2 - PRODUCT IDENTIFICATION), and that it is equipped with all suitable safety devices to classify the electrical system as compliant with applicable safety standards. If this is not the case, contact a Qualified Technician to adapt the system to required standards.
- Upstream from the machine (at the user’s expense) on the electrical power supply line, a bipolar switch must be installed that is able to intercept all the current phases (see CHAP.06 - TECHNICAL DATA).
- The irradiation area includes the area between the opening of the hearth and up to 1 metre of space frontally as well as laterally. No inflammable object must be left in this area (such as: inflammable liquids, fire-starting products or firewood, drapes, wooden decorations, rugs, etc.).
- Do not use the stove to dry clothes, it could overheat and cause an outbreak of fire.
- ATTENTION - BEWARE OF BURNS, most of the outer surfaces of the stove are very hot, door handle, glass, metal sides, majolica or metal top, fume exhaust pipe etc. Never touch the stove with naked hands when it is running; always use heat protection gloves, such as those supplied with the stove, when handling all parts.
- Before doing any internal cleaning or maintenance, you must wait until the machine reaches the ambient temperature.
- If the appliance is in alarm status due to a malfunction, do not attempt to restart it before finding out what has caused the heat generator to shut down.
- Never wash the internal parts of the combustion chamber with water.
- In alarm status for failed start up, do not try to restart the appliance until the firebox has been thoroughly cleaned.
- Keep the ventilation grids in the area the appliance is installed in clean conditions.
- Do not use fuels that are not recommended.
- Check and periodically clean the fume exhaust pipe, from the appliance to the flue (Union).
- It is strictly prohibited to start up the product with the combustion chamber door open or allow it to run with the glass broken.
- In case of need and if any operating problems persist, the user should contact the specialised Technical Assistance Center.
- Never try to kindle the fireplace by means of ethyl alcohol or any other flammable liquid product.

02.3 SAFETY REGULATIONS FOR EXTRAORDINARY MAINTENANCE AND INSTALLATION

- The user and/or owner of the product is required, in accordance with the laws in force, to assign the installation and maintenance to qualified and specialised operators, and acknowledge the risks and hazards should they fail to observe this requirement.
- The installation of the heat generator and the relative combustion product exhaustion system, the electrical connections, the commissioning and extraordinary maintenance services MUST always be performed by qualified and licensed professional staff.
- The product must be installed in accordance with the laws and standards in force in the State, Region or Area in which the machine is installed.
- The system installer MUST issue a Declaration of compliance for the work performed after commissioning the system, in accordance with the laws in force related to system safety standards.
- The installation technician must inform the user on safe equipment use.
- The installation operator is responsible for the installation and is therefore required to perform the work to top workmanship standards.
- The appliance must be connected to a combustion product exhaustion flue built in accordance with applicable standards and certified with a declaration of compliance.
- Should any installation defects arise during the optional Commissioning service, the specialised Technical Service Center, can refuse to endorse use of the product for safety reasons and submit a written Servicing Report to the User informing him that he and the Installation operator shall be jointly liable for any damage to persons, animals or things if used.
- Before installing the machine, the customer and installation operator must ensure that the flooring on which it will be positioned is suitably levelled and can support the weight (see CHAP.06 - TECHNICAL DATA). If there is any doubt on the solidity of the flooring, it is essential to have a Structural Engineer verify relative installation feasibility.
- Only specialised and qualified personnel may work or carry out checks inside the machine, complying with safety regulations.
- Prior to installation, the user and installer are obliged to check that the mains electrical supply to which the machine will be connected, corresponds to the voltage on the identification plate (see CHAP.05.2 - PRODUCT IDENTIFICATION), check that the system is sized so as to bear the maximum load required of the product, and also that it is equipped with all suitable safety devices to classify the electrical system as COMPLIANT with applicable safety standards. If this is not the case, contact a Qualified Technician to adapt the system to required standards.
- The power cord plug must be connected only AFTER the conclusion of the installation and assembly of the device, and must remain accessible after installation if the device does not have a suitable and accessible double-pole switch.
- Personnel assigned to handling the machines and equipment must always wear industrial gloves and boots.
- The Maintenance Operator must recommend the Customer to sign an annual maintenance contract for the product, so as to maintain the levels of safety and efficient performance of the product.
- The Maintenance Operator must check the working hours of the product between one maintenance intervention and another, to verify the actual work load of the machine. The actual hours of operation shall be reset at the end of the Technical intervention and indicated on the Servicing Report.
02.4 EQUIPMENT FOR OPERATORS AND MAINTENANCE PERSONNEL

Every operator performing maintenance on the machine, must wear safety garments and personal protective equipment:

1 Protection headphones
2 Gloves hand protections
3 Respiratory mask
4 Face mask or goggles
5 Accident prevention boots
6 Overalls or smock

02.5 RESIDUAL RISKS

Though JOLLY MEC CAMINETTI S.p.A. does everything within its power to produce its systems with the greatest competence regarding safety and consulting all the directives, laws, and regulations available, there are still, if minor, some residual risks during the phases of:

• TRANSPORT AND INSTALLATION
• ELECTRICAL CONNECTIONS (Which must be done by a qualified electrician)
• MAINTENANCE

Therefore, the technicians who perform these tasks must take these residual risks into account.

WARNING

Removal or tampering with the protection and safety devices can be only be done voluntarily and may cause serious injury to people.
Replace the safety signals when they become illegible or come off.
03.1 RECEIVING GOODS
The device is delivered on a pallet in a cardboard box and protected with shrink wrap cover sheet when receiving merchandise, check that:
• all packaging is intact
• all of the merchandise indicated on the delivery bill has actually been delivered
• the supply corresponds to the order specifications
• if the packaging is damaged, check the condition of the contents, because any breakages must immediately be reported to the carrier and to the retailer
• check there is no damage to any supplied elements; if there is any breakage detected, report it as soon as possible to the carrier and to the retailer
If any material listed on the delivery note is missing, report it to the retailer as soon as possible.

WARNING
Danger of suffocation
Make sure that children do not come into contact with packaging materials, plastic film or polystyrene as this could cause suffocation.

03.2 LIFTING AND TRANSPORT
Personnel in charge of handling the product must have read and thoroughly understood the safety prescriptions in CHAP.02 - ACCIDENT PREVENTION / SAFETY REGULATIONS of this manual and must wear work gloves and safety footwear.
For safety reasons, unauthorised persons must not be in the area while the product is being moved.
The product must be moved only with a trolley or pallet fork, and never with belts, chains, overhead cranes (see CHAP.06 - DATI TECNICI for the weight). All parts of the packaging coming into contact with the crane, belts or straps must be protected.
Unless there are obstacles, lift the product to a maximum of 30 cm from the ground and move it slowly, avoiding jerky or brusque movements.

WARNING
Danger of crushing, collision and abrasions.
CHAP.04 ECOLOGICAL REGULATIONS

04.1 DISPOSAL OF THE MACHINE

The crossed-out wastebasket symbol on the appliance means that at the end of its useful lifespan, the product must be disposed of separately from ordinary household wastes.
The user is responsible for delivering the appliance to an appropriate collection facility at the end of its useful lifespan.
Appropriate separate collection to permit recycling, treatment and environmentally compatible disposal helps prevent negative impact on the environment and human health and promotes recycling of the materials making up the product.
For more information on available collection facilities, contact your local waste collection service or the shop where you bought this appliance.

NOTE
The machine must be disposed of in a manner that complies with the laws in force and the environment.
When taking it to the firms that dispose of ferrous materials, handle the stove as described in CHAP.03 - HANDLING AND TRANSPORT.

WARNING
Danger of environmental pollution
Adopt positive civic behaviour and DO NOT disperse the packaging into the environment, but take it to waste disposal centres for recycling. All packaging can be recycled, as it consists of wood, polyethylene film, polystyrene and cardboard.
05.1 PRODUCT PRESENTATION

Jolly-Mec products are the result of over forty years experience in the wooden biomass combustion sector; they are designed and engineered to meet the increasing demands of today's markets with high performance levels and savings enveloped in a modern design.

The EVO series UNIVERSALJOLLY and SUPERJOLLY are monoblock wood burning inset devices approved to EN13229 Standard requirements.

The UNIVERSALJOLLY EVO and SUPERJOLLY EVO inset fireplaces are exceptionally high performance products optimised for installation in small spaces, replacing or revamping existing fireplaces. They feature the possibility of suctioning combustion air from both outside and inside the home if there is no possibility of an alternative installation. The accurate design and engineering of the device has reduced the installation masonry work to a bare minimum.

The UNIVERSALJOLLY EVO and SUPERJOLLY EVO also feature a combustion chamber in Fireflector HD which, in addition to improving the aesthetic appearance, also contribute to guaranteeing a high chamber temperatures level hence reducing polluting emissions. The exchange section is designed specifically to guarantee maximum heat recovery, making it possible to transfer thermal energy to various rooms by means of suitable ducting, via two openings located on the upper fireplace shell.

The UNIVERSALJOLLY EVO and SUPERJOLLY EVO fireplaces feature a door, to prevent the fuel products from escaping, with self-cleaning window, and a built-in manually powered humidifier to avoid problems such as: dry throats and allergies. You can also add natural balsamic essences to scent the air with your favourite fragrance.

The standard version features an electronic control panel which functions manually or automatically and controls the fan speed depending on the temperature detected by the probe. There are two openings in the top section of the fireplace for the ducting of hot air if desired.

Combustion has been optimised to guarantee consistent reloading (about 45 min). To prevent fumes from escaping during the reload phases, the device features a system which, when the door opens, opens a preferential route for the combustion fumes increasing the draught.

The handle is made of special plastic material which can be grasped with no danger of burns.
05.2 PRODUCT IDENTIFICATION

It is compulsory to indicate the product MODEL, the LOT number and SERIAL NUMBER in all communications with the manufacturer.

Identification numbers are printed on the adhesive plate located on the back of the appliance as illustrated.

Appliance performance values measured during inspection tests according to the indicated reference and EC markings are also included on the plate.

1. Product model
2. CE marking
3. Year of commissioning and certification
4. Reference standard
5. Performance declaration No.*
6. Product LOT N°
7. Product sales code
8. Product label code
9. Product serial number

NOTE

The illustrated example plate may differ in graphics from the original affixed to the product.

WARNING

*Pursuant to European Regulation No. 305/2011, manufacturers are now required to have the DoP - Declaration of Performance for each product of own design concerned; Jolly-Mec did namely provide all of these documents in downloadable electronic form that you can easily see on the website of the Company at the following address: http://www.jolly-mec.it
CHAP.06 TECHNICAL DATA

06.1 HOMOLOGATION

Technical specifications resulting from laboratory tests conducted according to EN 13229:2006 test methods at the CERTIFICATION institute.

<table>
<thead>
<tr>
<th>Description</th>
<th>Universaljolly 80 EVO</th>
<th>Superjolly 80 EVO</th>
<th>UM</th>
</tr>
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<tbody>
<tr>
<td>Burnt heat output</td>
<td>17,1</td>
<td>17,3</td>
<td>kW</td>
</tr>
<tr>
<td>Nominal heat power</td>
<td>13,5</td>
<td>14,0</td>
<td>kW</td>
</tr>
<tr>
<td>Consumption at nominal heat output</td>
<td>4,0</td>
<td>4,1</td>
<td>Kg/h</td>
</tr>
<tr>
<td>Efficiency at nominal output</td>
<td>79,5</td>
<td>81,0</td>
<td>%</td>
</tr>
<tr>
<td>Rated voltage/frequency</td>
<td>230/50</td>
<td>230/50</td>
<td>V/Hz</td>
</tr>
<tr>
<td>Electrical absorption</td>
<td>90</td>
<td>180</td>
<td>W</td>
</tr>
<tr>
<td>Device weight</td>
<td>190</td>
<td>190</td>
<td>Kg</td>
</tr>
<tr>
<td>Minimum flue draught at nominal heat output</td>
<td>12,0 ± 2</td>
<td>12,0 ± 2</td>
<td>Pa</td>
</tr>
<tr>
<td>Fume exhaust diameter</td>
<td>200,0</td>
<td>200,0</td>
<td>mm</td>
</tr>
<tr>
<td>Mass fume flow at nominal output</td>
<td>12,2</td>
<td>12,1</td>
<td>g/s</td>
</tr>
<tr>
<td>Average fume T at nominal heat output</td>
<td>278,0</td>
<td>266,0</td>
<td>°C</td>
</tr>
<tr>
<td>Dusts (13% O₂)</td>
<td>39,1</td>
<td>39,1</td>
<td>mg/Nm³</td>
</tr>
<tr>
<td>CO (13% O₂)</td>
<td>1015</td>
<td>1247</td>
<td>mg/Nm³</td>
</tr>
<tr>
<td>CO₂</td>
<td>9,0</td>
<td>9,0</td>
<td>%</td>
</tr>
<tr>
<td>Minimum frontal distance from inflammable material</td>
<td>200</td>
<td>200</td>
<td>cm</td>
</tr>
<tr>
<td>Energy efficiency class</td>
<td>A</td>
<td>A</td>
<td>-</td>
</tr>
</tbody>
</table>

WARNING

All appliance tests, final inspection and fine-tuning was performed using the recommended fuels. Jolly Mec Caminetti S.p.A. is not responsible for malfunctions, breakdowns or problems due to the use of wood logs that are not recommended, as combustion parameters vary according to the quality of the fuel.
06.2 RECOMMENDED FUELS

WOOD COMBUSTION

Wood clean burning is a process that reflects the natural decomposition itself; this means that CO$_2$ (carbon dioxide) released does not increase or damage the CO$_2$ original contents in the atmosphere.

The basic prerequisites for clean combustion are:
1. Using dry and untreated wood
2. Using the correct size and quantity of combustible: too little firewood or logs too large impede the fireplace to reach the optimum operating temperature.

KINDS OF WOOD

Each type of wood is characterized by its own density (weight related to the volume) and from different calorific values (related to the mass and moisture present). We can identify two broad categories: hardwoods and softwoods.

Hardwoods, usually deciduous woods, are the most dense ones, weigh heavily and contain very little resin, burn slowly and are the best materials in providing long ranges of combustion.

Softwoods, such as conifers, have a lower density, produce a strong warm but burn much more quickly; so they are better advised for starting combustion; if used as main combustible it would be necessary to load the fireplace more frequently; furthermore their high resin contents bring to more dirt, flue gases and unburned components.

<table>
<thead>
<tr>
<th>KIND OF WOOD</th>
<th>HEATING POWER [kWh/kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver Fir</td>
<td>4,5</td>
</tr>
<tr>
<td>Red Fir</td>
<td>4,4</td>
</tr>
<tr>
<td>Birch Tree</td>
<td>4,3</td>
</tr>
<tr>
<td>Hornbeam</td>
<td>3,9</td>
</tr>
<tr>
<td>Beech</td>
<td>4,0</td>
</tr>
<tr>
<td>Ash</td>
<td>4,2</td>
</tr>
<tr>
<td>Poplar</td>
<td>4,1</td>
</tr>
<tr>
<td>Oak</td>
<td>4,2</td>
</tr>
<tr>
<td>Locust (Robinia)</td>
<td>4,1</td>
</tr>
<tr>
<td>Durmast</td>
<td>4,2</td>
</tr>
</tbody>
</table>

SOME TIPS AND INFORMATION

• The best fuel is air dried untreated wood, with a humidity of ≤ 15-18%, beech, hornbeam, oak and acacia are highly recommended.
• The wood must be stored outdoors in a protected, dry and well-ventilated area.
• Excessively humid wood generates lower heat output, faster blackening of the glass and rapid corrosion of the heat generator.
• The wood must not be too old as it loses its capacity to catch fire (≤ 15 years).

SUITABLE QUALITY AND QUANTITY OF COMBUSTIBLE

The fireplace is designed to burn dry firewood having a water contents less than 15-18%. You can burn combustibles such as wood briquettes.

It should be paid close attention not to put an excessive amount of combustible because it brings the stove to emit an excessive amount of heat, so undergoing a warming over the predicted values and then causing really a potential damage to the structure as well as increased non-standard gas emissions.

IT IS FORBIDDEN TO BURN:

Burning waste of any kind, in particular plastics, is prohibited by law and because it can damage both the stove and the flue gas chimney.

It is also forbidden to burn given materials such as:
• Wet wood or bark residues
• Chipboard panels or (un)coated panel materials
• Paper, cardboard and old clothes
• Plastics and foams
• Wood treated with products for conservative treatments
• All solid or liquid materials which are not wooden

The efficiency of the fireplace also depends on the chimney draft.
06.3 COMPONENTS

The appliance is delivered on a pallet with a shrink wrap cover sheet and with the following additional components:

- Installation, use and maintenance manual
- Fireplace unit
- Electronic control unit
- Cast iron grate
- Chimney connector (Ø=200mm, L_min=300mm, see CHAP.07.1 - FLUE OR FUME EXHAUST SYSTEM)
- Fan (410 or 680 m³/h)

1A. UniversalJolly EVO
1B. SuperJolly EVO
2. Ash pan
3. Cast iron grate
4. Electronic control unit
5. Rock wool matting for boiler insulation (For UniversalJolly EVO only)
6. Heat proof glove
7. Container for filling humidifier
8. Fan 410 m³/h
9. Fan 680 m³/h with junction
10. Support(Optional, for UniversalJolly EVO only)
11. Legs (H= 42 cm with adjustable feet, for SuperJolly EVO only)
12. Connector for air combustion pipe
06.4 DIMENSIONS

All measurements are in mm.

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>H</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIVERSALJOLLY 80 EVO</td>
<td>800</td>
<td>497</td>
<td>585</td>
<td>475</td>
</tr>
<tr>
<td>SUPERJOLLY 80 EVO</td>
<td>800</td>
<td>497</td>
<td>971</td>
<td>475</td>
</tr>
</tbody>
</table>
07.1 FLUE OR FUME EXHAUST SYSTEM

The flue or fume exhaust system is a fundamental element for the proper functioning of the stove and must comply with the following general standards:

EN1856-1 Chimneys. Requirements for metal chimneys - Part 1: System chimney products
EN1856-2 Chimneys. Requirements for metal chimneys - Part 2: Metal flue liners and connecting flue pipes
UNI 10683 Heat generators operating with wood or other solid bio fuels - Installation requirements

It is advisable that the project the fireplace is managed by a designer on the basis of a dimensional calculation of the chimney section and of both ducting and insulating sizing (UNI 13384). Each appliance must have its own chimney flue without any inlets from other appliances. The dimensions of the flue are strictly proportioned to its height, to be measured from the fireplace to the bottom of the chimney cap. To guarantee a correct smoke exhaust, the surface of the chimney terminal opening must double the chimney flue section and it does not have to be blocked by wire nets or other obstacles.

The exhaust duct of the combustion products generated by the appliance must respond to the following requirements:

- all changes in direction must be open to inspection to facilitate maintenance.
- correct draught to maintain depression in the combustion chamber, as per the technical specifications, must be guaranteed.
- it must be watertight, waterproof and suitably isolated and insulated.
- must be made of suitable materials that resist normal mechanical stress, heat, the action of the combustion products and acid condensations.
- must be prevalently vertical structures with deviations from the axis not greater that 45°.
- must be adequately distanced from combustible or inflammable materials via an air space or suitable insulation.
- must have an internal section which is preferably circular: square or rectangular sections must have rounded corners with a radius of no less than 20 mm.
- must have an internal section that is constant, free and independent.
- rectangular sections shall have a maximum ratio of 1.5 between sides.

It is recommended to use a windproof airfoil chimney cap.

If the flue is installed externally it must be insulated to prevent the cooling of fumes and formation of condensation. The same is valid for the tract from the roof to the chimney cap (Torrino). The use of pipes in fibre cement for connecting the equipment to the flue is forbidden.

Exhaust pipes must not run through rooms where the installation of combustion equipment is forbidden. The assembly of the flue chimney connection has to be done in order to guarantee that smokes doesn’t escape in all different working conditions, to avoid the creation of condensation and the related smoke return to the product.

Horizontal tracts in assembly must be avoided.

The chimney system for the smoke exhaust MUST be dimensioned and projected by a Qualified Engineer. He will determine the proper smoke exhaust system taking into consideration the product technical data, kind of installation, installation location and mostly the installation technical regulation in force. The Engineer will give indications to the installer about the materials to use, smoke path section, insulation thickness, corrosion resistance and all requirements needed for the correct working of the system product-chimney.

The correct dimension of the air intake for ventilation and aeration of the installation location MUST be verified in conformity with the technical regulation in force.

Malfunctioning of the product caused by a smoke exhaust not properly projected and dimensioned WILL NOT be object of objections to Jolly-Mec and interventions at Jolly Mec charge.

For appliance that must reach exhaust outlets that are not coaxial with regard to the issue of the fumes from the machine, changes in direction must be made using an open elbow of 45° (Fig. 1).
07.2 INSTALLATION ROOM VENTILATION

According to reference regulation UNI10683, 4 Pa depression must be verified between the installation room interior and exterior. Prepare adequate ventilation openings in the room where the product is installed to permit at least 50 m$^3$/h clean comburent air flow not taken from polluted rooms. The ventilation openings, if fitted with insect-proof mesh, must be easily removable and undergo periodic cleaning to ensure clear air flow passage.

As per the fuel product exhaust system, air vents are also extremely important and must be given the appropriate consideration and respect. The installer is directly liable for all electrical system parts, generation hook-up to the system, ventilation and the fume exhaust system and MUST, at the end of installation work, issue a declaration of conformity as per Ministerial Decree 37/08. On the other hand, the purchaser MUST assign all work to a qualified professional technician. The device must be installed and used in accordance with all local and national laws and EC Regulations.
07.3 ASSEMBLY SEQUENCE

Install the fireplace as follows:

UNIVERSALJOLLY 80 EVO

1A. Prepare an inlet for the comburent air communicating with outdoors via a 100 mm Ø aluminium tube with a maximum length of 100 cm (see CHAP.07.5 - EXAMPLE OF FIREPLACE INSTALLED AND CLADDED). If indoor air is used as the comburent air it is necessary to prepare an outdoor air inlet measuring at least 450 cm².

2A. Create the fan compartment according to the dimensions given in the drawings (LxHxP= 35x20x40 cm, Fig. 1-2).

3A. Make a hole for power cable entry.

4A. Prepare a convector air inlet to discharge the heat (minimum surface 450 cm²) in the upper section of the cladding, about 1.5 m above the fireplace (see CHAP.07.5 - EXAMPLE OF FIREPLACE INSTALLED AND CLADDED).

Before fitting the fireplace, fix the support (see FIG 1 and CHAP.06.3 - COMPONENTS) on the cladding surface to create a sturdy base and seal using heat-resistant silicone along the contact perimeter between the support base and the fireplace to prevent the fan from suctioning air from the flue.

To prevent heat loss, it is recommended to insulate the fireplace before fitting in place using the insulating material supplied.

SUPERJOLLY 80 EVO

1B. When the fireplace arrives, lie it on the floor or lift with a crane, then apply the legs using the supplied screws to fasten in place (Fig. 3).

2B. During this phase, it is advisable to assemble the fan positioning it in its designated seat and fastening it as indicated in points 12 to 14 (if the optional 680 m³/h fan is to be installed, it is necessary to use the fitting supplied in the pack which, once connected to the actual fan, must be pushed into the designated seat).

3B. Position the device where it is to be installed, bearing in mind that the installation of the device must guarantee easy access for cleaning its parts, the circulation fan, the exhaust fumes ducting and the flue.

4B. Prepare an inlet for the combustion air communicating with outdoors via a 100 mm Ø aluminum pipe with a maximum length of 100 cm to connect via the provided connector (see CHAP.06.3) under the fireplace base. To fix the connector to the fireplace brake and remove the pre-cut part (see CHAP.07.5 - EXAMPLE OF FIREPLACE INSTALLED AND CLADDED). If indoor air is used as the comburent air it is necessary to prepare an outdoor air inlet measuring at least 450 cm².
5. If the air is to be ducted into other rooms using the relative optional accessories, before connecting it to the flue, prepare the holes for the ducting tubes on the extractor hood, the back of the device, or wherever it is most convenient based on the installation requirements; bear in mind that the passage of air intake ducts inside the fume evacuation system is prohibited (Fig. 4).

6. The fireplace can operate by suctioning comburent air and circulation air directly from outdoors or inside the installation room. In the lower section of the fireplace, below the ash pan, there is a vent, covered with a removable closure flap (Fig. 5). If the circulation air and comburent air are taken from the room, it is necessary to undo the four fastener screws to remove the closure flap from the vent (Fig. 6). If the circulation air is taken from the room via a designated vent (minimum dimensions 450 cm$^2$) and the comburent air is taken from outdoors via the tube, it is not necessary to perform any interventions on the fireplace.

7. Lower the stainless steel flue pipe (Ø 200 mm) all the way in the special space on the exchanger, operating from the fume exhaust or, if possible, from the outside, forcing it down with hands or using a curved iron (Fig. 8) to hermetically close the fume passage. To operate from the fumes exhaust, it is necessary to remove the deflector from the top section of the fireplace. To remove the deflector, pull it towards the front of the fireplace, let it tip over downwards and unhook it, then remove the fumes cap (see CHAP.08.4 - ROUTINE MAINTENANCE). Repeat these operations in the reverse order to reposition it.

8. If possible, pad with rock wool between the existing chimney flue and the stainless steel pipe to prevent a return of the flue gases and stop soot from falling and excluding the risk of a fire or, where possible seal with fire-proof cementitious material.

9. If ducting is provided for, knock out the precut sheets on the hot air outlets with a hammer (Fig. 8 and 9). The air connections can also be applied with the fireplace fitted, by removing the damper.

10. Insert the connection and pipe in the space and turn to secure the
connection (Fig. 10 e 11).

N.B. It is advisable to try fitting the connections before inserting the fireplace.

11. Mount the control unit making sure the installation point is not too hot (max 50-60°C).

12. To install the fan, remove the fire base, the ash pan and the closing plate below the pan (Fig. 12-16).

13. Bend the bottom edge of the fan down (Fig. 17) to prevent vibration and noise, insert it in the space and secure with the special screws. If the 410 m³/h fan is installed, it must be fixed directly to the fireplace, whilst the optional 680 m³/h fan must be fitted with the supplied fitting (Fig. 18 and 19), then fasten the ensemble in the designated seat using the same procedure as for the 410 m³/h fan.

14. Once the fan has been fitted and electrically-connected, the probe has been connected to the control unit and the device operating functions have been tested, close all access to the compartment using the parts indicated in section 12 following the directions in the reverse order.

15. Once the fireplace is fitted in place and all the installation operations have been completed, proceed with the lagging phase as required.
07.4 INSTALLING THE CLADDING: PRECAUTIONS

- **Protection of domestic walls**
  Installation of the fireplace near inflammable walls is only allowed if you maintain the distances indicated below, or if suitable protection is interposed. The surfaces such as the flooring, ceiling and walls of the home in the vicinity of the fireplace must be protected to prevent overheating. Insulating panels must be overlapped to avoid leaking. The sizes and types of insulation depend on the type of surface being protected.

- **Insulation types**
  Insulation can be made of various materials: mineral fibre, ceramic fibre, rock wool, and can come in different forms: sheets, mattresses. Its specific weight must be equal or greater than 245 kg/m$^3$ with a temperature threshold of about 1000°C; and thermal conductivity of $l (400°C) \leq 0,1$ W/m$^3$. This material must be coded “AGI Q132” or “DIN 18895”.
  If the material used is not inside any walls, it is advisable to fasten it to the entire wall surface, to prevent the fibres from being dispersed into the air.

- **Beam**
  The beam can be fitted in front of the fireplace cladding maintaining a distance of at least 10 mm so that the space between it and the fireplace does not create accumulation of heat. The beam must not be inside the fireplace irradiation field (see Fig. 1).
SAFETY DISTANCES FROM SURROUNDING FLAMMABLE MATERIALS

In Fig. 2 are shown the safety distances from surrounding flammable materials applicable to all installation types available:

1. Flammable Wall
2. Flammable floor

Installation distances from flammable materials

A straight Distance from flammable side walls: 200 mm
B straight Distance from flammable rear walls: 200 mm
C Insulation Thickness for side/ rear walls (insulating material of type 0,07 W/mK at 200°C): 80 mm
D straight Distance from flammable floors: 400 mm
E Floor insulation thickness (insulating material of type 0,07 W/mK at 200°C): --- mm
R min. straight Front Distance from flammable materials: 2000 mm

MINIMAL SECTION SIZES FOR CONVECTION AIR INLETS AND OUTLETS

In Fig. 3 are shown the minimal section sizes suitable for convection air Inlets and Outlets and applicable to all installation types available:

A Min. Convection Air Inlet: 450 cm²
B Min. Convection Air Outlet: 450 cm²
C Forced convection air outlet Ø: 2xØ100mm
Forced convection air inlet Ø: 2xØ100mm
D Flue Gas Exhaust Pipe: Ø200 mm

WARNING

Electrical connections must be carried out by skilled personnel according to the regulations in force (2014/30/EC and 2014/35/EC).
07.5 EXAMPLE OF FIREPLACE INSTALLED AND CLADDED

- **Electronic control unit**
- **Flexible aluminium pipes for hot air ducting Ø 100 mm**
- **Combustion air inlet Ø 100 mm with mandatory ducting pipe**
- **Recirculation grid obligatory hood (450 cm², 100 mm from the ceiling)**
- **Adjustable exhaust vents for hot air (at least 2 x 80 cm²)**
- **Opens/close lever for front hot air outlet**
- **By-pass damper adjustment**
- **Inspection and maintenance panel (240 x 240 mm, mandatory when fitting the 680 m³/h fan)**
- **Air recirculation grid (450 cm²)**
- **Regulation of comburent air**
- **Fume exhaust diam. 200 mm**


07.6 EXAMPLE OF AIR DUCTING TO OTHER ROOMS

The air pipes must be routed to the rooms to be heated.

The return of air in the fireplace room must be guaranteed from every room in which the hot air arrives, through openings under the doors or vents (see Fig. 1-2).

The air can be delivered, outside the hood and flue, by means of flexible aluminium pipes with connections and branches in sheet metal. The pipes must be fixed to the connections by means of pipe clamps.

The pipes must be insulated to ensure fireplace efficiency. Therefore they must be wrapped with glass wool matting (min. thickness 3 cm) along their entire length (not inside the hood).

N.B. Avoid contact of the pipes with wood and flammable materials.

Using plastic pipes to deliver the air is very dangerous because the high temperatures could deform them and generate harmful gases. Where the ducting pipes cannot be embedded, they can be concealed with a false ceiling or using fake beams or boxing (see Fig. 1-2).

Make sure to hermetically seal the space between the outlets and the wall with silicone, to prevent the air escaping and causing blackening due to the heat (e.g. marks above radiators).

MAX. DUCTABLE LENGTH 7 METRES.

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Fig. 1

Installation with outside suction

Fit an inlet grille communicating with the fan, in the fireplace base, enabling air to enter.

Only for version with outside suction
Example of installation with 50% outside air suction with automatic closure box and 50% room air.

Outside air inlet connection with automatic box and fan.
For ducting to several rooms fit the T connection or Y connection (optional) and connect the two top outlets as well as the ducting.

If installing with internal air intake it is necessary to prepare an outdoor air inlet measuring at least 450 cm².
08.1 CONTROL UNIT
The Electronic Control Unit manages all functions of the device and is controlled through a display suitably designed to use the following main functions:

- Fan speed in manual mode
- Fan speed in automatic mode
- Discharge function
- Summer/Winter function
- Reports of possible malfunctions

08.2 APPLIANCE START AND USE
Before switching on the device for the first time it is necessary to remove from inside all documentation and accessories that come together in the supply and read the instructions for use, especially the parts about the recommended fuels and other most relevant issues.

The commissioning service has to be done by a specialised Technical Service Center.

Before starting the fireplace, check that the control unit is switched on and functioning then turn the comburent air regulating lever to position 1 (Fig. 1).

Small pieces of wood (maximum LxHxP 40x4x4 cm) must be used to light the fire, stacking them on the iron grate (as seen in Fig. 3). Standard fire-lighters can be used to make the starting phase easier (never use ethyl alcohol or other inflammable liquids). The door can be left slightly open during the fire starting phase.

Once the first wood has burnt, larger sized pieces can be loaded (with a maximum length of 40 cm) in a central position on the iron grate parallel to the rear wall of the fireplace, turning the comburent air regulating lever to position 2 (Fig. 2). To maximise fireplace efficiency and avoid the leakage of combustion fumes, the fireplace must be loaded when the flame goes out. Before placing the wood on the fire base, it is recommended to break and evenly distribute the cinders using a cinder tray.
The hearth must always be closed, except when the wood is added, to avoid the leakage of smoke. Always open and close the door gently, and make sure the handle is locked firmly in place.

To prevent damage to the Fireflector (not included in the warranty) always avoid overloading the fireplace or throwing pieces of wood into the combustion chamber.

WARNING

If the flue draught is weaker than required for the fireplace to function properly, it is possible to open the by-pass damper slightly, by removing the screw from the pin, as this will improve the operating conditions of the device (Fig. 4-5).

When starting the fireplace again in the future, follow the same procedure illustrated above, cleaning the fireplace beforehand allowing excessive ashes to fall onto the fire base (bearing in mind that the presence of a layer of ashes on the same makes starting the fire easier) in the pan below, which must then be emptied.

The fireplace’s capacity and the duration of the fuel are regulated by the quantity of wood loaded, that can vary from a minimum of 2.5 kg every 45 min to a maximum of 3 kg every 45 min.

Remember that you need to burn 4 kg of wood an hour for the fireplace to achieve nominal output.
08.3 TIPS FOR THE USER

- When the heating system is ducted, it is mandatory to leave at least one vent open to discharge the heat generated when the device is on.
- The glass door must remain closed during wood combustion; it can only be opened to add more wood.
- If there is a blackout or the fan is faulty, the device must be switched off and no additional fuel can be loaded. Failure to comply with this warning can cause serious structural damage to the device.
- When purchasing firewood, it is advisable to vary the sizes, but with a length as to be able to light quickly, but also long charges and, if the quality of the wood is good, efficiency and functionality will also be excellent.
- The presence of condensation inside the device could be caused by weak flue draught (clean the flue), damp or low quality wood, or inadequate or inexistent air intake.
- No other boilers, flues, stoves, fireplaces or air extractors must be in the same room (excluded of the type “C” according to UNI 10683).
- The device must not be used to burn anything other than the recommended fuels as the combustion by-products could corrode the device or the temperature generated could compromise its integrity.
- The device must not be placed in direct contact with fuel materials; the minimum distance allowed is 20 cm from inflammable side and back walls and 40 cm from inflammable flooring. Minimum frontal air distance from inflammable material is 20 cm.
- Regular and methodical maintenance is all-important for correct operation and maximum efficiency.
- The high performance and efficiency of this device is achieved by operating with closed doors. If the doors are opened and the flue draught is not optimal, small puffs of smoke may occasionally occur.

WARNING

Never touch the parts of the hearth without cladding with naked hands, except the handle, as they become very hot, always use heat protection gloves, such as those supplied with the device, when handling all parts.
In case of problems related to the device, contact the specialised Technical Service Center.
In the event of a chimney fire call the Fire Department.
08.4 ROUTINE MAINTENANCE

Opening the combustion chamber door
To open the combustion chamber door, grasp the handle (Fig. 1) and rotate it until it locks in place (Fig. 2).
Open the door and, to leave it completely open, open it to 90 degrees. To close the door, push it gently with the handle open.
When the door is resting on the device, the handle will remain open by 45° (Fig. 3). To close the door completely, push the handle as far as possible.

Cleaning the ash pan
Empty periodically when necessary.

Boiler body
Disconnect the main switch and check that the fireplace is cold. Remove the iron grate and use a brush or sharp tool to clean away any residues. A vacuum cleaner can also be used.
Clean the holes under the fire base grate and those on the back wall of the combustion chamber. Empty the ash pan and clean the seat below thoroughly. Put everything back in place.

Glass
Use specific products. Do not use aggressive cleaning products that could damage the paint on the trim around the glass.
Do not clean the glass parts when still hot to prevent damaging them.
If the fireplace requires more frequent cleaning, check the flue draught as it may be insufficient.

Flue gas deflector
It is advisable to open and tip the flue gas deflector down (Fig. 7) at least every three months to remove any residual soot deposits. To do this, it is necessary to pull the deflector at the front (Fig. 4-5) and unhook it from the support pins (Fig. 6). Fully remove the deflector at least once a year to clean the heat exchanger using a specific iron brush.
Cleaning the flue
Routine flue cleaning depends on the draught, fireplace use, weather conditions and the type of wood used. It is necessary to remove
the fumes deflector and cap to clean the flue. (Fig. 8). It is mandatory to clean the flue every year, by a specialised technician, in autumn
before lighting the fireplace.

Air inlets
Check that the external air intakes are clean and free from any clogged materials.
It is recommended to protect the external air intakes using specific protection netting.

NOTE
Time between one cleaning and the next is strictly tied to fuel quality. The most suitable cleaning frequency can
only be established a few days after use according to the actual amount of deposited residue and may vary from
recommended Jolly Mec intervals.

08.5 EXTRAORDINARY MAINTENANCE

We wish to remind you that the Extraordinary Maintenance to be carried out on this type of product must be done obligatorily every year
by qualified maintenance personnel, in order to maintain its functionality, efficiency and comfort.
For any further queries you may have, we invite you to contact the specialised Technical Service Center through your retailer.

Scheduled maintenance must include:

- Cleaning of the flue (with special focus on horizontal segments)
- Check the flue draught
- Cleaning of any deposits in the appliance
- Check electric/electronic system integrity
- Check the condition of the internal vermiculite refractory
- Check the combustion air ducts

WARNING
To carry out these operations, the appliance must be disconnected from the mains; wait until the appliance is cold
and comply rigorously with the safety regulations in force.
# CHAP.09 FAULT DIAGNOSIS AND TROUBLESHOOTING

## 09.1 PROBLEMS

### WARNING

In accordance with the laws in force on safety for electrical appliances, a specialised Technical Service Center or qualified personnel must obligatorily be contacted for all installation, maintenance or interventions that require access to electrical parts.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>MAIN CHECKS TO BE PERFORMED</th>
</tr>
</thead>
</table>
| The control unit does not switch on | - Check for possible power supply or mains problems.  
- The control unit is faulty. |
| Excessive condensation forms inside the fireplace | - Check the quality of the fuel used.  
- Check the draught.  
- Insufficient air intake size. |
| The fan doesn’t work | - Check for possible power supply or mains problems.  
- The temperature probe is faulty or disconnected.  
- The fan is faulty or disconnected. |
| Smoke escapes when the door is opened, the wood burn poorly, or the glass gets dirty | - If the fireplace is installed in a room in communication with a stairwell, with major depression that exists in the local, close off the stairwell by installing a door.  
- There are other appliances that use room air, creating low pressure. Use the fireplace when the other appliances are off (excluded of the type “C” according to UNI 10683).  
- Load the wood when there is no flame.  
- Place the baffle correctly (see CHAP. 08.5 - ASSEMBLY SEQUENCE).  
- The outside air inlets and/or the flue are partially or completely obstructed. Clean or remove the obstructions.  
- Air inlet and/or canalisations not correctly done.  
- Insufficient flue draught: there are horizontal sections or 90° bends, or the chimney cap is located under the ridge of the roof (installation errors). Replace the horizontal sections with sections at 45°; raise the chimney cap, or fit an antiwind cap.  
- Check that the flue conforms to the indications given in CHAP.07.1 - FLUE OR FUME EXHAUST SYSTEM, clean the flue and smoke baffle, open the damper, open the door slowly |

### WARNING

Do not use the device if the draft is not regular, and if combustion is not great.