

# USE AND INSTALLATION MANUAL





# KITCHENS MOD. REGINA AND NONNA AMELIA

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English



### 1 FOREWORD AND MAIN FEATURES

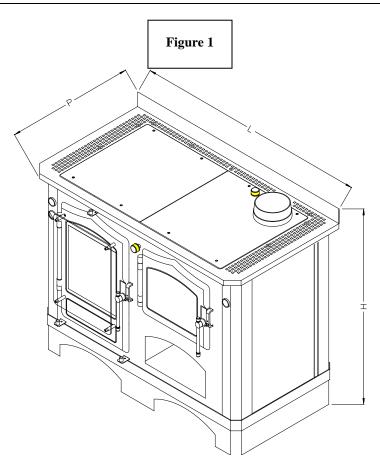
The owner or the end user authorized to he use of the combustion device is obliged to keep the Technical Documents and to exhibit them upon request of the competent authorities. All local regulations, including the ones referring to national and European norms, shall be respected when installing the stove/kitchen.

The Arce stoves/kitchens are manufactured with top quality materials, produced with state of the art techniques and technologies, checked and controlled by specialized technicians in order to exploit at its best the energy of wood.

The main features of the mod. REGINA and NONNA AMELIA are:

- Hearth of cast iron, built by composed and jointed elements.
- Hearth door with ceramic glass, resistant to high temperatures.
- Ash drawer, removable with fire ignited.
- Manually adjustable primary and secondary air.
- Grid-shaker, useable from the outside.
- Heating for natural convection.
- Better thermic performance by using the heat of the fumes, that are convoyed in forced passages.
- Cast-iron cooking plate with removable rings.
- Cast-iron hearth and oven doors.
- Additional glass on door for children safety
- Inox handle and knobs
- Thermometer for oven
- Oven grid and dripping-pan

Read carefully this manual before setting the stove/kitchen in operation, so as to better know and appreciate its features and characteristics.





1.1 TECHNICAL DATA KITCHEN REGINA			
Height	mm	920	
Length	mm	1250	
Width	mm	670	
Weight	Kg	260	
Diameter fumes exhaust	mm	150	
Nominal output power	KW	10	
Performance	%	75	
Heating volume	m³	230	
Average consume	Kg/h	3,6	
Max. permitted load	Kg/h	4	
Minimum draught required	Pa	10	
CO measured with 13% of oxygen at the nominal heat output	%	0.10	
Temperature of exhausts	°C	209	
Minimum safety distance from flammable objects	mm	200	

1.2 DATI TECNICI NONNA AMELIA			
Height	mm	920	
Lenght	mm	1020	
Width	mm	670	
Weight	Kg	230	
Diameter fumes exhaust	mm	150	
Nominal output power	KW	10	
Performance	%	75	
Heating volume	m³	230	
Average consume	Kg/h	2,5	
Max. permitted load	Kg/h	3	
Minimum draught required	Pa	12	
CO measured with 13% of oxygen at the nominal heat output	%	0.61	
Temperature of exhausts	°C	209	
Minimum safety distance from flammable objects	mm	200	



### 2 PACKAGING

The packaging of your stove/kitchen is designed to protect it against possible damages. Nevertheless, it could happen that the stove/kitchen and/or the accessories could have suffered from damages during transportation.

We recommend to check, on the moment of the delivery, for missing components or damages to the stove/kitchen and signal immediately any irregularity to your retailer.

The packaging of your stove/kitchen is made of environment friendly material.

### 3 TRANSPORT AND INSTALLATION

The stove/kitchen shall be lifted using the appropriate rings welded into the structure. The stove/kitchen shall be installed on a floor having an adequate loading capacity. Not being the case, proper means shall be undertaken (ex: load distribution plate). Should the floor be made of wood, it is advisable to use a protective plate that should distribute the weight. It is extremely important to keep the safety distances from flammable objects, especially in respect to the exhaust pipe.

### 4 IMPORTANT INFORMATION

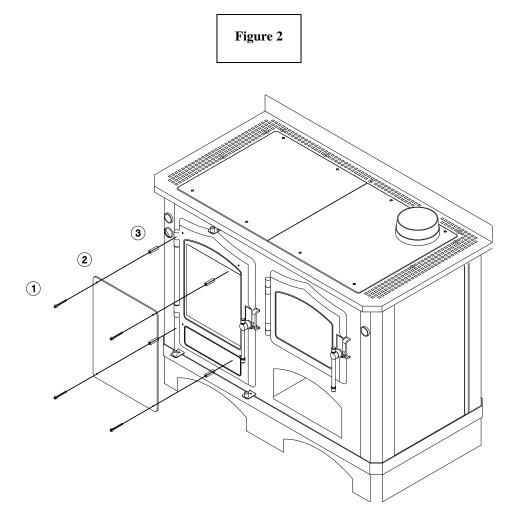
All local regulations, including the ones referring to national and European norms, shall be respected when installing the stove/kitchen.

- Before starting the stove/kitchen, read carefully and entirely this manual.
- use for transport and handling of your stove/kitchen only means with sufficient loading capacity.
- Do not use the stove/kitchen as element of sustain or support.
- The combustion of fuel releases thermic energy, causing a relevant warming of the stove/kitchen surface, of the doors and of their handles, regulation knobs, glasses, of the exhaust pipes and possibly also of the rear part of the stove/kitchen. Any contact with those zones shall be avoided without proper means of protection, like terminally protected gloves or terminally isolated handling systems.
- Never use the stove/kitchen as an incinerator or for any other different use from the purpose for which i has been conceived.
- Children shall be clearly made aware of those dangers and kept far from the stove/kitchen during operation.
- It is forbidden to lay on the stove/kitchen or in its surroundings a non heat-resistant object.
- It is forbidden to lay or handle on the top of the stove/kitchen any recipient containing hot water or liquid without proper means of protection, in order to avoid serious burns.
- It is forbidden to dry clothes or any other item on the stove/kitchen.
- Supports for drying clothes or similar shall be kept at a reasonable distance in order to avoid fires.
- During the operation of the stove/kitchen it is forbidden to handle flammable or explosive substances in the room or in nearby areas.
- Do not use flammable liquids to start the stove/kitchen.
- For safety reasons against fire, it is advisable to keep a powder extinguisher of min. 3 kg at hand .
- In case of fire in the flue, following operations are advised:
  - Absolutely not detach the stove/kitchen from the exhaust pipe Immediately call the Fire Department.
- Avoid brisk hits to glasses and doors.

**English** 



- Do not start the stove/kitchen if glasses are scratched or broken.
- Avoid opening the door to clean the glass while the stove/kitchen is operating. This operation shall be done only when the stove/kitchen is off.
- Hot ashes in the ash chamber shall be removed using the provided tools and stored in well closed clay or metal recipient. The recipient shall be laid on a non combustible surface (marble floor or surface, tiles...) and away from flammable items until cold, then it can be disposed of.
- Never effect unauthorized modifications to the stove/kitchen.
- Use only original spare parts, recommended by the manufacturer
- Never use the kitchen with open or half-open door.
- Open the door only for adding wood and using the appropriate protection gloves supplied with the kitchen; close immediately the door afterwards.
- Due to the wide dimension of the hearth, pay particular attention by adding wood when flames are rather lively. An abrupt opening of the door could cause flames to come out from the kitchen. Do not wear easily flammable clothes.
- The kitchen is equipped with a supplementary tempered glass to be positioned on the door, so as to constitute a good protection against heat exposure of the legs when cooking (Figure 2)





### 5 EXHAUSTS EVACUATION

The pipes for the evacuation of exhausts represent a source of danger, both for fires or the outpour of toxic gases. Great caution shall be paid when the exhaust pipe is connected to the flue with walls or parts of them made of wood.

When joining the pipe to the flue, the former shall never overlap into the flue (Figure 4) and the connection shall be properly sealed.

The correct operation of the stove/kitchen is granted exclusively by a good draught of the flue. The minimum value to be granted at **1 meter** of distance from the exit on the collar of the plate shall be > **10 Pa**.

In case of bad weather conditions (phenomena of thermic inversion), pay particular attention to the emission of fumes and gases and to the conditions of the draught.

In cases of incorrect feeling of the stove/kitchen or lack of air for combustion, the room could fill with smoke or unburned gases could come out. In that case, let the fire burn down and check for eventual occlusions in the pipes and check the cleanness of the pipes. When the pipes are already partially occluded, the formation of deposits on the pipes and into the flue increases rapidly and jeopardizes its optimal function.

### 5.1 POSITIONING AND CONNECTION TO THE FLUE

Per una corretta installazione è fondamentale posizionare la stufa nelle immediate vicinanze di una canna fumaria. Il collegamento tra la stufa e la canna fumaria deve risultare il più breve possibile onde evitare fastidiosi problemi di condensa nelle tubazioni e, comunque, un anomalo funzionamento della stufa stessa.

Nel collegamento è buona norma:

For a correct operation, the stove/kitchen shall be installed in the proximity of a flue. The connection between stove/kitchen and flue shall be as short as possible, in order to avoid annoying problems of condensation in the pipes and, in any case, an anomalous operation of the stove/kitchen itself. When performing the connection it is advisable:

- Not to exceed with bends (no more than two) (Fig. 5).
- Avoid long segments of pipe in horizontal (max 30% of the whole vertical length) (Fig. 5).
- Incline the horizontal segments of 10-15% towards the flue to ease the evacuation of the fumes (Fig. 5).
- Try to have the vertical section of the pipe superior to 1.5 m (Fig. 5).
- Absolutely avoid that the metal pipe overlaps into the flue (Fig. 3)
- Properly seal the connection point between pipe and flue
- Use, in conformity with the current safety norms, pipes of adequate thickness and with a diameter compatible with the collar supplied with the stove/kitchen

### 5.2 FLUE AND CHIMNEY POT

The flue is essential for a good operation of any solid fuel heating device. The depression, commonly known as draught, is related to the height of the flue, that shall never be inferior to **five meters**, with a section of at least cm. 20x20. It is important that the flue had no narrowing or air infiltrations, that could reduce the correct operation.

The minimum value of the depression to be granted at 1 meter of distance from the exit of the collar on the plate shall be at least 10 Pa. With inferior values, the flame will be weak with formation of soot, bad for the pipes, possible exit of smoke from the door when loading wood and very low efficiency.

It is important that the flue serves only one stove/kitchen. If several pipes should converge in the same flue, the draught will be irregular, with consequences on the good operation of the stove/kitchen.

If the latter condition is compulsory, the pipe shall be extended into the flue, until a sufficient draught could be restored (Fig.5).

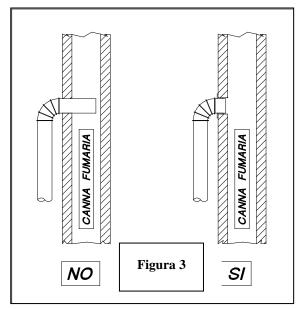
A good draught can be checked by igniting a piece of paper at the base of the exhaust pipe. If the draught is good, the flame will be attracted with strength towards the inside.

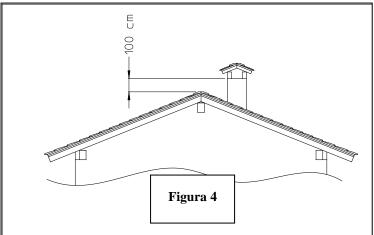
**Caution:** flues positioned outside the house or in cold environments shall be protected and insulated The chimney pot is highly relevant for a good operation of the stove/kitchen, it shall be executed in a way that the exit of the smoke shall take place at least 100 cm (Fig.4) higher than any other structure in a radius of 10 meters, including the vault of the roof.

The surface of the loopholes shall not be inferior to the section of the flue.

**English** 

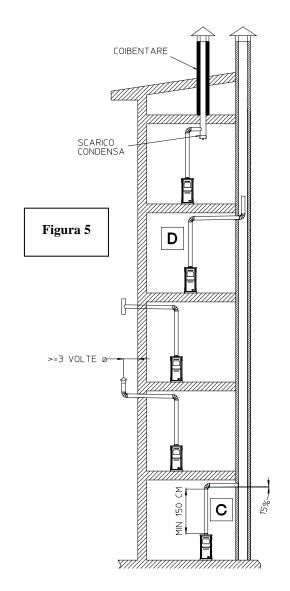


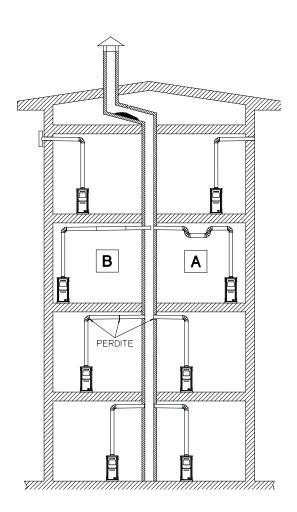




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### 5.3 PROTECTION OF THE FLOOR

The stove/kitchen shall be installed on a floor having an adequate loading capacity. Not being the case, proper means shall be undertaken (ex: load distribution plate).

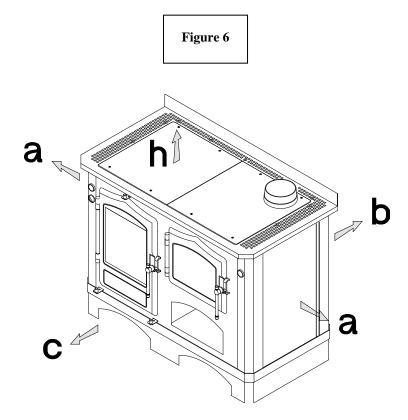
The stove/kitchen shall be laid on a non-flammable floor. Should the floor be made of wood or covered with carpet, a refractory support base (steel plate or similar) shall be installed so that it overlaps at least 50 cm from the opening of the door and at least 30 cm from the sides of the stove/kitchen.

### 5.4 SECURITY DISTANCES

1.From non flammable objects	a>200 mm	b>100 mm	c>400 mm
2. From non flammable objects and concrete bearing walls	a>200 mm	b>200 mm	c>800 mm

Great care shall be taken when connecting the exhaust pipe to the flue, using safety fixations and pipes of adequate thickness and diameter, taking into count the existing regulations.

When kindling the stove/kitchen for the first time, check the position of the wood-stopper.

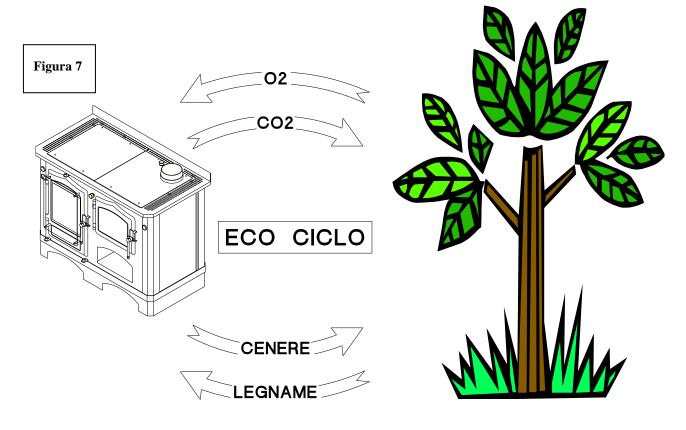


The installation shall grant an easy access to the stove/kitchen, to the exhaust pipe and to the flue for cleaning operation.



## **6 COMBUSTIBILE**

The stove/kitchen is designed to burn **dry wood in logs** (relative humidity <15%) or logs of pressed wood. Never burn plastic materials, painted and varnished wood, chipboard panels and coal. The incorrect use of combustibles could cause the development of toxic substances and damage both the stove/kitchen and the flue. With a correct combustion process, the emitted carbon-dioxyde corresponds to the quantità emitted naturally by the felled trees and by the undergrowth, therefore the combustion is 100% ecological (fig.7) One layer of wood shall be loaded on a bed of embers, one by one, so as to avoid the risk of overheat.





### WARNING:

It is advised, during the first ignitions, to bring the stove/kitchen gradually in temperature, in order to enable all components to suffer a progressive temperature increase and adjustment to dilatation.

A regular maintenance by a qualified technician is necessary at least once a year.

A new stove/kitchen requires the complete drying of the paint and of the metallic inner parts. During the first kindling, censure a sufficient aeration in the room, so as to evacuate the vapours or fumes that are generated. That inconvenient disappears after a few kindling.

Use exclusively solid fuel as wood in logs, pressed wood logs or bricks of lignite.

NEVER USE any type of coal, wood scraps containing paint or varnish or glues that could cause serious problems of toxic emissions.

The thermic power indicated in this notice represents the maximum limit of use of the stove/kitchen, therefore <u>any load of combustible superior to the indications can compromise the duration of the materials and of the stove/kitchen itself, but also make the warranty fall.</u>

### 7 IGNITION

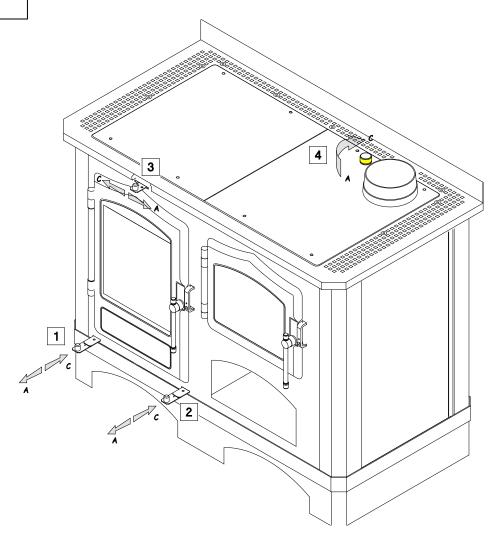
All local regulations, including the ones referring to national and European norms, shall be respected in installing the stove/kitchen.

In order to obtain a quick and correct kindling of the stove/kitchen, follow accurately the instructions below::

- 1. If the stove/kitchen and the flue are cold, or the atmospheric pressure is low, burn at firs some pages of a newspaper.
- **2.** Open the primary air intake 1, the secondary air intake 3 and the grid 2, then turn the supplementary draught lever 4 on position A (Figure 8)
- 3. Put into the earth some balls of newspaper, then a layer of wood chips and, on top, a layer of bigger wood (max 1,5 kg)
- **4.** Set fire to the paper, close the door and, once a good combustion has been reached, close the primary air intake 1 by acting on the lever.
- 5. The immission of secondary air into the combustion chamber, regulated by the lever 3, happens through a pre-heating duct that sends it to brush the wide glass bay of the door, cooling and cleaning it
- **6.** In all cases, the lever 3 for secondary air regulation, in closet position, enables anyway a minimal air flow, in order to avoid any phenomenon of gasification of the fuel.
- **7.** The ash drawer is positioned underneath the grid, and is shall be emptied regularly. It is very important to pay attention to the fact that that the ashes could still contain some burning embers. Therefore, ashes shall be collected in inflammable containers.
- **8.** The ash-shaker grid is moved by shaking the lever 2 to and fro. In the "open" position there is passage of primary air, regulated only by the lever 1.



Figure 8



### **Nonna Amelia:**

Nominal operating conditions, to which the performances indicated for the device refer, involve primary air (1), hearth grid lever (2) and kindling valve (4) closed, secondary air (3) open by half, 2.78 kg of wood burned in 1 hour (length between 20-25 cm) and draught of the chimney flue equal to 12Pa.

### Regina:

Nominal operating conditions, to which the performances indicated for the device refer, involve primary air (1), hearth grid lever (2) and kindling valve (4) closed, secondary air (3) open by half, 3.41 kg of wood burned in 1 hour (length between 20-25 cm) and draught of the chimney flue equal to 12Pa.

In order to obtain a slow combustion, reduce to the minimum the primary air flux and the secondary air flux by using the above mentioned levers. It is in any case compulsory, having each flue its own draught and being the latter quite sensitive to the climatic variations, to fine tune each lever in order to obtain an optimal combustion. The grids dedicated to air intake shall be kept clean and free from any obstruction.



### 7.1 Air for combustion

The process of combustion requires comburent air. In the case of free standing stove/kitchens, the necessary air for combustion is taken from the surrounding environment, it is therefore reminded to reintegrate the level of oxygen in the room by providing a regular change of air. In modern houses, with isolating door and window frames, the air circulation is limited. The situation gets worse with the presence of other devices that consume air in the room.

Therefore it is advised to install a permanent air intake, close to the stove/kitchen, or in any case in the room where the stove/kitchen is installed.

### **8 MAINTENANCE**

In order to preserve in the time the efficiency of the stove/kitchen and the integrity of the inner parts (hearth, oven..), it is important to execute a correct daily and periodical maintenance.

All maintenance and cleaning operations shall be executed only when the stove/kitchen has completely cooled down.

It is important to underline that the use of wood with low grade of humidity reduces the interventions of cleaning and maintenance and, on the contrary, the use of inappropriate combustible can reduce the duration of the stove/kitchen.

The annual inspection from a qualified technician is highly advised.

### 8.1 DAILY MAINTENANCE

Remove the ashes and make them fall in the appropriate ash-drawer by using the ash-shaker grid lever, the ashes can be used as a plant fertilizer.

Using a cloth and appropriated products it is possible to clean the ceramic glass of the hearth door and the eventual protection glass.

The excess of soot on the ceramic glass of the hearth indicates a lack of draught of the flue that could, in some cases, be caused by the use of wood with excess of humidity.

Clean the outer part of the stove/kitchen using only a wet cloth.

NEVER USE ABRASIVE PRODUCTS OR SPONGES, that could damage the paint coating.

When repairs to the paint should be necessary, appropriate spray cans are available.

### 8.2 USE OF THE ASHES

The rests of the combustion are composed by the mineral elements of the wood (circa 1-2%), that accumulate in the ash box. Those ashes are a natural product and are a good fertilizer for all kind of garden plants.

Ashes should be let to rest and then "extinguished" with water.

### 8.3 PERIODICAL MAINTENANCE

After the winter period use or when a diminution of the draught is perceived, it is advised to execute a thorough cleaning of the stove/kitchen. In particular attention shall be aid to the exhaust pipe, to the connection to the flue. Check also the tightness of the joints.

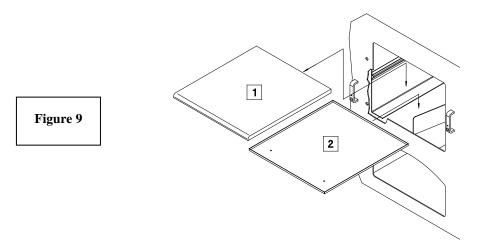
To operate as above, follow the instructions:

- 1. Remove the pipe and the cast iron collar.
- 2. thoroughly clean the upper part with a brush or a swab from the fumes ring hole.
- 3. When necessary, remove the plate by unscrewing the upper screws (WARNING: before removing the plate, remove the flag valve on the side of the fumes ring by pulling upwards the knob while holding the flag through the fumes exit). Once the cleaning performed, re-assemble the flag proceeding on the contrary.
- 4. Clean the whole hearth.
- 5. Remove soot and incrustations from the upper part of the oven, from its sides and from the bottom (passing through the fumes exit).

**English** 



- 6. Access the part underneath the oven (fumes channel) removing first the <u>soapstone</u>  $\boxed{1}$  and then the metal plate  $\boxed{2}$  see scheme Figure 11) and aspire the dust and residuals.
- 7. Check the cleanness of the flue, intervening if necessary
- 8. Clean off soot and incrustations from the connection pipe to the flue.
- 9. Reassemble the cast-iron cooking plate, taking care to position the washer correctly on the contact edge.
- 10. Reassemble the connection pipe to the flue.



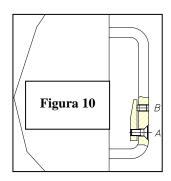
### 8.4 CLEANING OF THE GLASS AND OF THE HEARTH DOOR

The best way to clean the glass of the hearth door is to use a wet cloth. Persistent dirt can be removed with a special detergent, available by your retailer.

WARNING: never clean the glass when it is still hot.

### 8.5 REGULATION OF THE HANDLE

In order to prevent air losses through the door towards the inner part of the hearth, it is possible to act both on the regulation of the hinges and on the wedge of regulation of the closing handle, obtaining thus a better compression of the washer.(Figure 10).





# 9 PROBLEM SOLVING GRID

Problem	Cause	Solution
	Insufficient draught	Either clean the flue or make it longer
		Regulate the air intake according to
		the instructions of the manual. For
	Incorrect regulation of the air intake	long periods at the minimum, the glass
Soot covers the glass too quickly	incorrect regulation of the air intake	dirties itself more rapidly but part of
		the soot burns and is removed once a
		correct regulation reached.
	Humid wood	Use, as alternative, pressed wood logs
	Tunna wood	or wood with humidity inferior to 15%
The stove/kitchen does not operate in	Insufficient draught of the flue	Check the draught
a regular way	Soot deposits on the inside of the	Follow the cleaning indications of the
a regular way	stove/kitchen	manual
The combustible does not burn in a	Unfavourable weather conditions	
	Insufficient draught of the flue	Check the draught
regular way	Wrongful kindling process	Check the "ignition" paragraph
The store dritchen emits emelye	The story /litchen is distri	Follow the cleaning indications of the
The stove/kitchen emits smoke	The stove/kitchen is dirty	manual
Smoke output when adding wood	Insufficient draught of the flue, the	Check the connections, the joints and
Smoke output when adding wood	exhaust is not tight	the cleanness

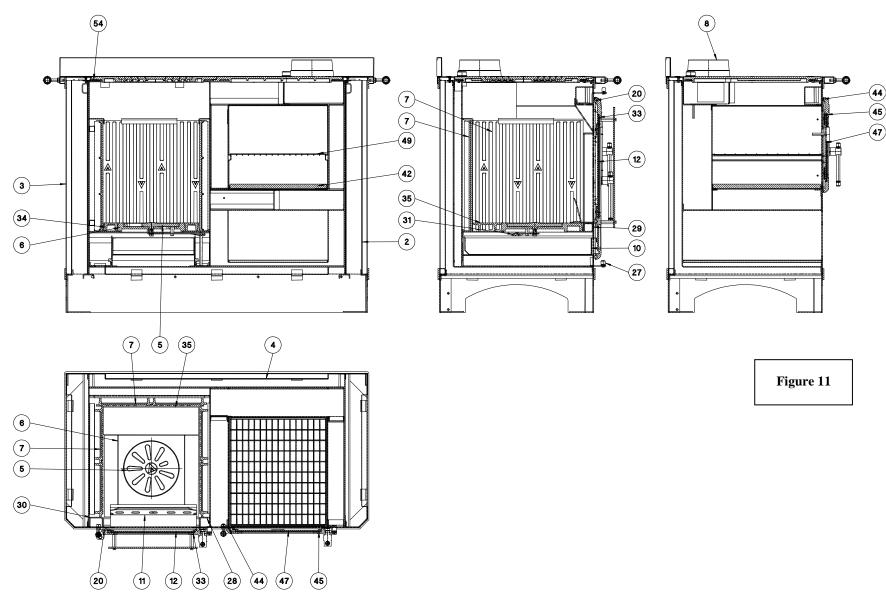


# **10 SPARE PARTS**

Pos.	Description	
05	Disc-shaped grid	
06	Grid holder	
07	Hearth side	
08	Fumes ring	
09	Cooking plate frame	
10	Ash drawer	
11	Wood-stopper	
12	Hearth door glass	
13	Hearth door	
18	Hearth door handle	
20	Hearth door washer	
27	Knob for lever	
33	Hearth door glass washer	
34	Hearth brick 48x295	

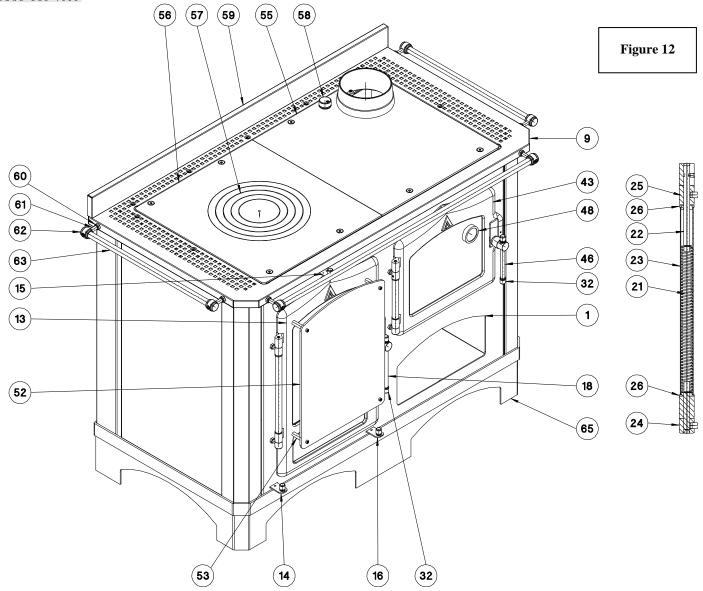
Pos.	Description	
35	Hearth brick 100x345	
42	Oven soapstone	
43	Oven door	
44	Oven door washer	
45	Glass washer	
46	Oven door handle	
47	Oven door glass	
48	Oven thermometer	
52	Protection glass	
54	Plate washer	
55	Oven-side plate	
56	Hearth-side plate	
57	Rings for plate	





English





English



Arce reminds you that as manufacturer of this product it is the holder of the rights set forth by Law by Decree no. 24, dated 2 February 2002, and that the warranty below leaves these rights unchanged.

This Warranty certificate, issued by Arce, with registered headquarters in Dronero (CN), Via 1° Maggio no. 14, concerns all the components of the stove supplied with the ARCE brand and is extended to the free repair and/or replacement of them provided that:

- the fault arises within 2 years from the purchase of the product and is notified to the retailer and/or ARCE Service Centre within 2 months from noting it;
- it is acknowledged as such by an ARCE Technical Service Centre.

The ARCE Service Centre, after ascertaining the validity of the warranty certificate and legal purchase invoice/receipt, will not charge any cost for the operations carried out and the components replaced.

### First FREE ignition and test (pellet products only):

- Arce S.p.a. provides the end user a **free first ignition** and test service by an ARCE Service centre, with the purpose of checking that the product is working properly and that installation is carried out according to current regulations.
- The failure to avail of this service could bar the validity of the warranty
- The ARCE Service Centre will also provide all the information for correct use and maintenance of the product.

### WARRANTY TERMS OF VALIDITY

### The warranty is acknowledged as valid provided that:

- The stove is installed according to current regulations on the subject, adhering to the instructions contained herein and by a professionally skilled technician/retailer.
- The warranty certificate has been duly completed in all its parts and then confirmed by the retailer or authorised ARCE Service Centre.
- The warranty certificate together with the invoice/receipt are kept and shown to the ARCE Service Centre in the event of warranty service.

### The warranty is not acknowledged as valid in cases in which:

- Installation fails to comply with the instructions given herein and in accordance with current regulations on the subject.
- The above-mentioned warranty terms of validity have not been met.
- The presuppositions exist of the customer's negligence due to the lack of or incorrect product maintenance and/or improper use of it.
- Electric/plumbing systems are noted which fail to meet current regulations and are unsuitable for the correct installation and operation of the product.
- Damage is found caused by atmospheric, chemical or electrochemical agents, tampering, alterations or improper use of the product, inadequacy of the flue and any other cause not deriving from product manufacturing.
- Damage is found caused by corrosion or deposits typical of heating systems (for idro products).
- Maintenance operations have been carried out and the replacement of ARCE components with non-OEM ones by technical personnel not authorised by Arce.
- A fuel is used other than the one specified for correct operation and/or of poor quality (pellets and wood).



• At the time of receiving the product, all damages caused by transport and/or incorrect handling of the product by the forwarder are not claimed <u>immediately</u> noting them on the shipping document.

Arce S.p.a. does not answer for any damage that may be directly or indirectly caused to persons, property or pets due to the failure to adhere to the instructions contained herein and listed previously.

### The warranty excludes:

- Seals, ceramic or toughened glass, claddings, plates, cast iron grilles and hearth modules, painted, chromium-plated or gilded parts, majolica cladding.
- Any imperfections of majolica, stone or marble claddings (such as cracks, streaks, salts, marks, changes of shade), which are inherent in the materials themselves and not classifiable as defects or indicative of poor quality.
- Masonry and installation works and the materials needed for them.
- The parts of the system for producing sanitary water (idro products).
- The heat exchanger if an adequate anti-condensation circuit is not made and the specifications for correctly doing so contained herein are not followed (idro products).
- Any calibration or adjustments of the product in relation to the type of fuel or alteration of the type of
  installation.

### **Further clauses:**

- For products sold abroad the same warranty terms remain valid, on an ex-factory basis, with the exception of particular conditions agreed upon during negotiations with the foreign distributor.
- In the case of part replacements the warranty is not extended.
- Materials in stock c/o retailers are considered with warranty suspended until the actual date of sale to the end user. During this period it is the retailer's responsibility to store the products in suitable places and ways in order to ensure their perfect state of preservation.

### Warranty service operation:

The request for a warranty service operation must be forwarded to the pertinent ARCE Retailer or Service Centre.

### **Liability:**

Arce does not acknowledge any compensation for direct or indirect damages caused by or depending on the product.

### **Competent tribunal:**

For any dispute the competent tribunal is the court of Cuneo.



# **12 NOTES**






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English