

# MANUFACTURER MARINE COOKERS

Only competent installers using the correct materials, tools and equipment should install LPG systems.

## **Warning :please check the features of the model you have purchased !!**

Please check the data plate of the cooker ( The sticker with all relevant datas is placed on the back side of the cooker or under the cooker).

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These instructions are valid for more models of appliances. Identify the product you have purchased.

# USER'S INSTRUCTIONS

Dear customer we thank you for purchasing this product.

We ask you therefore to carefully read this booklet before using the appliance.

Your unit was carefully inspected and tested at our factory. Please take the time to read this manual carefully.

Many of its instructions are essential to the safe operation of your new product.

Because of the continuing refinement of our product designs, your appliance may possess features not discussed in the manual.

**Images and photos: attention: the images are stylised and are indicative and illustrative. the attached photos and images may not represent the model used by you. For example, a photo of a cooker with 2 burners, may be valid for more appliances regardless of the number of gas burners and the accessories installed on the product or whatever their appearance.**

We have tried to supply all the information you might need, so please take time to read this manual before installing and using your appliance.

The manufacturer advises strongly against unauthorized modification of this product.

Do not attempt to modify the technical characteristics of the appliance as this may become dangerous to use.

Warning: it is recommended that this appliance is professionally serviced every year to verify if the appliance is in perfect condition and for servicing if necessary.

The manufacturer does not take any responsibility for damages due to wrong installation or caused by wrong use of the appliance.

This appliance must exclusively be used to cook food. Do not use the appliance for purposes which are different from those for which it has been made.

After having unpacked the appliance, check to ensure that it is not damaged. If you have any doubts, do not use and consult your supplier or a professionally qualified technician.

Packing elements and the appliance itself (i.e. plastic bags, polystyrene foam, nails, packing straps, etc.) should not be left around within easy reach of children as these may cause serious injuries.

The packaging material which is recyclable is marked with the recycling symbol.

If you should decide not to use this appliance any longer (or decide to substitute an older model) before disposing of it, it is recommended that it be made inoperative in an appropriate manner in accordance to health and environmental protection regulations ensuring in particular that all potentially hazardous parts be made harmless, especially in relation to children who could play with old appliances.

These instructions must be carefully read and understood before use of the appliance.

## A2 - Installation

**DANGER. Avoid asphyxiation. Provide ventilation when the stove is in use. Do not use for space heating. Do not cover. Do not use unattended.**

(LPG = liquefied petroleum gas Propane, butane or a mixture of the two gases maintained in the liquid state by storage in cylinders under pressure).

The dangers associated with LPG systems when handled incorrectly include fire, explosion, burns and asphyxiation due to gas leakage from the system or accumulation of gas following flame failure in an appliance.

This appliance must be installed according to the current standards in practice in the country of destination and only by a competent person, that's to say a professional who is authorized by the manufacturer and who knows all the current standards in practice in the country of destination

The cleaning operations of the appliance must be done by a competent person.

It is recommended that a competent person explains the content of this booklet to ensure the operator is conversant with its operation

## A3 - Gas cylinder

The gas cylinder must be replaced by a competent person who will install and connect the gas cylinder according to the current standards .

Warning: never obstruct the ventilation outlets of any gas cylinder compartment.

## A4 - Flexible hose

The connection of this appliance may be done by means of a flexible hose (check if allowed by current regulations ) and must be done according to the current standards in practice in the country of destination (the gas inlet is located at the rear side of the appliance or on the bottom of the appliance).

The hose must comply with the regulations of the country of destination

The gas hose must be checked regularly (often) and it must always be in perfect condition.

The gas hose must be changed before the expiry date by a competent person . Warning: in case of leakages do not try to repair the hose, do not use the appliance and contact immediately a competent person who will replace the hose.

The hose must be installed in such a way that it can be always inspected along all its length and so that it can be easily accessed for replacement.

Any connection to the gas supply should be made with tight mechanical connections and with normalized connections.

The flexible tube shall be fitted in such a way that it cannot come into contact with a moveable part of the housing unit (e.g. a drawer) and does not pass through any space susceptible of becoming congested.

## A5 - Servicing and technical problems

Warning : no alterations or adjustments should be made by unskilled and unauthorized persons to the appliance. Do not remove any parts from the appliance or substitute alternatives as this may affect the safety of the appliance and can be very dangerous and is not permitted.

In the event of a failure or breakdown of a unit itself, turn off the gas supply at the cylinder (shut off the LPG supply at the cylinder valve) and contact a competent person. If you suspect that a control tap is faulty do not use the appliance, turn off the gas supply at the cylinder and contact a competent person.

Warning: it is recommended that this appliance is professionally serviced every year to verify if the appliance is in perfect condition and for servicing if necessary (leakages, safety of operation, combustion quality, ventilation, safety and control devices) and in order to verify that the installation of the appliance still complies with the standards and regulations in practice.

A complete check-up of the whole installation has to be carried out punctually.

We stress the importance of obtaining expert advice regarding the installation of LPG systems. We recommend that an inspection and test of such systems and associated alarm systems be carried out at least monthly to ensure their correct operation. (LPG SYSTEM = System consisting of an arrangement of cylinder, safety devices, pressure regulators, connections, valves, piping, tubing, hoses, fittings, and devices intended to store, supply, monitor, or control the flow of fuel gas up to and including the appliance).

In the case of any deterioration, "regulator, rubber tube and tap" have to be replaced.

In case of a gas leak, it is necessary to stop immediately all gas supply. Do not use naked light or operate any appliance which may cause a spark and ventilate the room and rooms next to the one where the appliance is installed, and above also the rooms which are at a lower level than the one where the appliance is installed.

LPG is heavier than air and any leakage will tend to fall to the bottom of a compartment. Gas may travel some distance like this and will form an explosive mixture with the air in the compartment. A spark as small as the static discharge from clothing may ignite such a mixture.

In conjunction with any LPG system the provision of an automatic gas detection and alarm system of a reliable group is strongly recommended and is required when an LPG appliance is installed in spaces below decks. It is essential that any electrical equipment associated with the gas detection and alarm system is certified as flame proof or intrinsically safe for the gas being used.

We stress the importance of installing a gas detector, a Carbon monoxide detector, Smoke and/or heat detector in each compartment containing LPG appliances.

## A6 - Temperatures and ventilation

The importance of adequate ventilation for LPG appliances cannot be over emphasized. On no account is a ventilation system to be interfered with to prevent it functioning correctly. To do so may put persons at risk of carbon monoxide poisoning, asphyxiation or explosion.

Warning: some parts of the appliance become particularly hot when in operation (hob's grid, burners, fascia, front and rear parts of the appliance - in particular the oven flue outlet, door and door glass, pan holders) do not touch with bare hands the mentioned parts when the appliance is operated and after use till all the parts cool down. It is recommended that an oven glove is used when the appliance is being used since hot parts could be touched by accident.

This appliance must be kept away from inflammable materials, and from heat sources of any kind.

This appliance and particularly the rear and bottom part must never be put in contact with plastic, wooden and inflammable objects and surfaces. Do not use this appliance as a form of heating.

This appliance is not connected with combustion gases removal equipment.

Adequate ventilation (according to the regulations of the country of destination) must be provided to ensure the appliance works in a safe manner.

The ventilation openings must be opened before starting to operate the appliance and then kept open while the appliance is being used. The openings must not be blocked in any way.

The necessary quantity of air is of 2000 liters per hour per each nominal kilowatt of capacity of the appliance.

Warning : the appliance must not be installed in areas subjected to strong draughts.

Ventilation, mechanical or natural, should not interfere with the flame pattern of an LPG appliance such that it may extinguish the flame or cause incomplete combustion of the gas.

Do not spray aerosols in the vicinity of this appliance.

The use of a gas cooking appliance results in the production of heat and moisture in the room in which it is installed. Ensure that the kitchen is well ventilated: keep natural ventilation holes open or install a mechanical ventilation device (mechanical extractor hood).

- Prolonged intensive use of the appliance may call for additional ventilation, for example opening of a window, or more effective ventilation, for example increasing the level of mechanical ventilation where present.

## A10 - Cleaning

It is recommended to contact a competent person if the user is unskilled.

After use, and before carrying out the cleaning of the appliance wait for it to cool down.

Before starting the cleaning operations close the cylinder valve. (shut off the LPG supply at the cylinder valve)

Clean the appliance regularly and carefully.

Cleaning of the burners: use a damp sponge added with soap or with appropriate detergent, if the holes of the burners or the venturi are blocked, never use metallic objects which could modify the diameter of the holes, producing a bad functioning of the appliance. please contact a competent person!

Do not allow spillages or other materials enter the holes of the burners and the appliance interiors.

Clean the appliance every time after use. avoid acid or alkaline substances (lemon juice, vinegar, etc...) or dirt, which could spoil the surfaces.

Stainless steel surfaces must be cleaned with a damp cloth and special dedicated products.

Enamelled surfaces must be cleaned with a damp cloth and special dedicated products.

Do not use abrasive cleaners.

In case the appliance has not been used for a long time, verify that the burners are clean and contact a competent person who will check if the appliance is in perfect condition.

Warning: children should be kept away from the appliance.

Cleaning of burners inner parts = contact a competent and authorized technician!



A7-1-

Do not leave the appliance in operation while unattended.

Check that all the control knobs (which are used to regulate the power of the burners through the gas taps) of the unit are on the closed (off) position before opening the cylinder valve (see here below in the text instructions concerning the gas taps and control knobs). The control knobs are on the closed (off) position when the disc marked on the control knob coincides with the disc marked on the fascia (Figure 18)

Do not open any burner (through the control knob/gas tap) or do not keep it open, without having a lighter ready to light the burner.

It is recommended that a spark ignition device is used rather than a match.

If your appliance is equipped with a piezo or electronic spark ignition, please see instructions.

Turn off the gas supply at the cylinder (shut off the LPG supply at the cylinder valve) when the appliance is not in operation and after use. The gas valve must be kept open only when the appliance is in use.

All burners are fitted with a flame failure safety shut off device (ffd). In the event of the flame being extinguished the gas supply will be cut off to the burner.

(FFD= Device that has a sensing element, activated by the presence or absence of a flame that causes the inlet of the LPG supply to a burner to be opened or closed)

Each control knob controls a burner of the appliance (opening, closing and power regulation of the burner). Your appliance is equipped with 1 or more front control knobs

Each control knob is installed on a gas tap which at its turn controls one single burner.

In order to facilitate the selection of the correct burner the control knobs are clearly identifiable with respect to the burners they control by means of symbols on the fascia. For each burner the closed (off), full on and reduced rate positions are marked by means of symbols on the fascia and on each control knob.

**A7-2- Hob and grill burners**

The closed (off) position is marked with a disc on the fascia above the control knob, the full on position is marked with a large flame and the reduced rate position is marked with a small flame. Each control knob is also marked with a disc (Figure 18, 19, 20).

Any required setting between full on and reduced rate position can be obtained by positioning the control knob in such a way that the disc marked on the control knob is placed between these settings (large flame and small flame symbols) and not between large flame and disc symbols (Figure. 14).

To resume:

closed burner = closed (off) position : the disc marked on the control knob is in coincidence with the disc marked on the fascia above the control knob, (Figure 18).

burner at full rate = full on position : the disc marked on the control knob coincides with the large flame marked on the fascia, (Figure 19).

burner at reduced rate = reduced rate position : the disc marked on the control knob coincides with the small flame marked on the fascia, (Figure 20).

Warning : any accessory or pot must not hide the burners during the burners lighting operations.

Warning : always check that the control knobs are on the off position before opening the cylinder valve

**A7-6- To light and operate the hob and grill burners**

Choose the burner that better suits the pan chosen for cooking

Open the cylinder valve

Place a lighter to the selected burner

If the appliance is equipped with a piezo or electronic spark ignition, you must press the plastic button identified by a spark symbol on the fascia.

Simultaneously push in and rotate the control knob anti-clockwise to the full on position, that's to say till the disc marked on the control knob coincides with the large flame symbol marked on the fascia next to the knob, (Figure 13, 19).

Light the burner

After the burner has been lit, keep the control knob pushed for 10-20 seconds in order to unlock the safety thermocouple (ffd) (see FIG.)

Release the control knob

If the burner goes out when the control knob is released, rotate the control knob clockwise to the off position (full disc symbol) and repeat the above lighting procedure ( see instructions to turn off the burner)

To reduce the flame of the burner, rotate the control knob anti-clockwise towards the reduced rate position, that's to say till the disc marked on the control knob coincides with the small flame symbol marked on the fascia (Figure 20).

To turn off the burner, rotate the control knob clockwise until you reach the off position (disc symbol vertically above the control knob), that's to say till the disc marked on the control knob coincides with disc marked on the fascia above the control knob, (Figure18).

Beware: the pan must be centered on the burner to be used and should have the following sizes:

burners	2,3 - 3,0 kw	min/max pan diameter	: 180/240 mm
burners	1,6 - 1,7 kw	min/max pan diameter	: 160/220 mm
burners	0,9 - 1,0 kw	min/max pan diameter	: 100/120 mm

Use pans and pots with flat bottom. Always use the pots lids. Flames of the burners must never exceed the pots diameter. Do not use pots which extend outside the hob perimeter.

**A7-11- Grill burner**

Caution.

Cooker with grill 592fnt5: After lighting the grill burner, the grill drip tray and grill grating must be correctly placed under the grill to protect the base of the grill compartment when the grill is in operation. Attention: do not block the outlet of the smoke from the grill burner. The grill burner smoke escapes through a special opening on the cooking surface. Do not use the grill burner at the same time as the hob burners in order not to overheat the appliance.

**A9 – How to use the accessories – Cookers**

A9 - 1 - Pan retainer and pan retainer bar (optional). The pan-holder bar is located on the hob of some appliance models. Check the correct positioning of the pan retainers. Place the pan-holders on the pan-holder bar and adjust their position until the pan you want to lock the pan you want to use. Then tighten the potholders by turning the plastic or metal knobs clockwise (depending on the model). Turning them counter-clockwise will unlock them.

Some accessories, such as gimbals, may come with their own specific instructions.

A9 - 3- Battery for electronic ignition (optional) – Fig.22

The battery is placed inside a special plastic container on the rear or front of the appliance. Unscrew the cap of this container to replace the battery. (Attention: in some models the plastic power button is integral with the cap itself in which case the battery is located behind the switch, which must be unscrewed to remove the battery).

# DIAGRAMS, DRAWINGS, IMAGES, FIGURES

## Models 242FN5, 312FA1, 31BFA1, 592FNT5

The appliance must be installed in a cabinet similar to the one of the enclosed Figure 30 - warning: a minimum clearance at each side of the appliance must be kept, in addition ensure that no obstruction to the appliance's air flow is permitted at the base, sides and back and upper side.

If available use the special optional plates which must be fixed on each side of the appliance on the lower part with the preexisting screws.

Warning : use non-combustable material for the surround - such as steel sheet

The FIG.s and photos refer to one or more models of cookers

FIG. 1 - Correct position of the gas hose

FIG. 2 - Wrong position of the gas hose

FIG. 18 - Knob on OFF position.

FIG. 19 - Knob on MAX position .

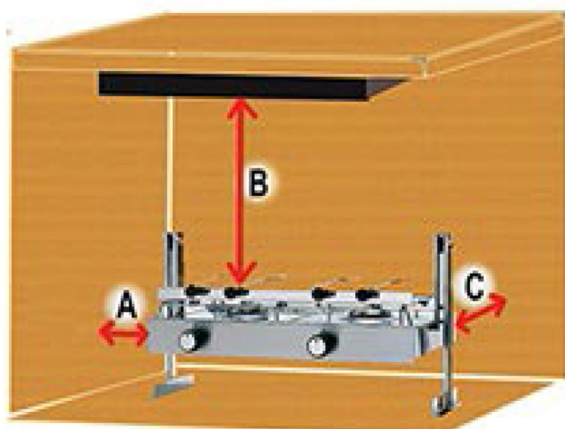
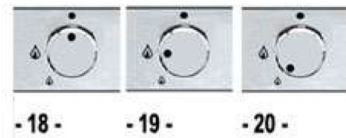
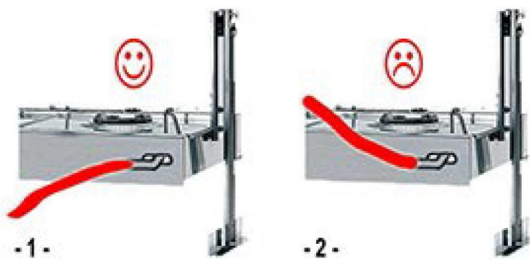
FIG. 20 - Knob on MIN position.

FIG. 30 - A = 10 cm (In the case of recessed installation with a shorter distance, it is necessary to provide additional heat protection plates and insulation)

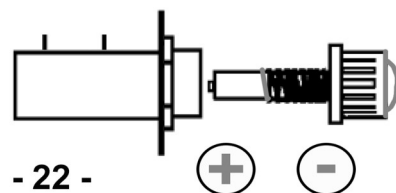
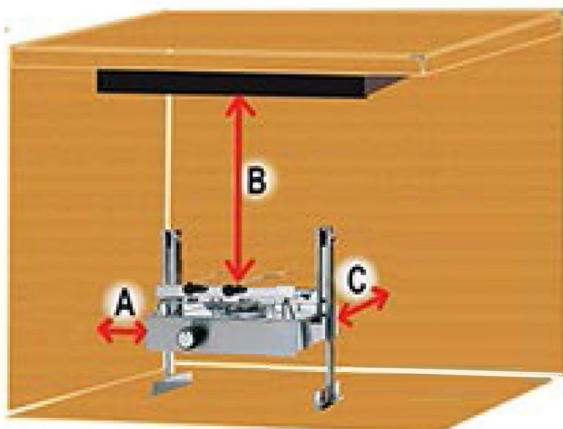
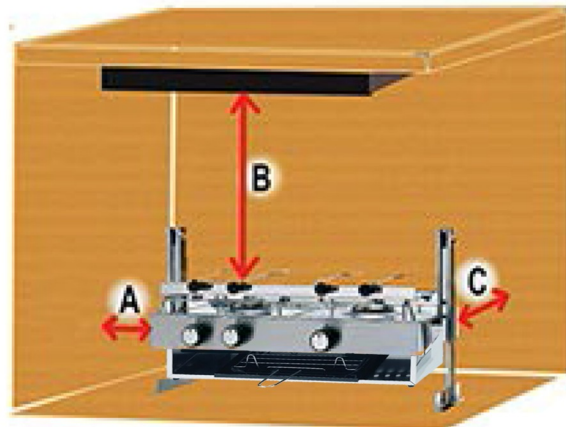
B = 80 cm ( min distance between the hob and the wall above the hob)

C = 10 cm ( warning: this distance may have to be increased for gimbaling of the appliance)

WARNING : All dimensions are approximate. Ask the producer for more precise diagrams in case of need.



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# INSTALLATION INSTRUCTIONS

## For the professional (competent person) only

Only competent installers using the correct materials, tools and equipment should install LPG systems.

LPG systems should be checked for leakage, general condition and correct operation at least monthly.

Ventilation systems should be checked for leakage, general condition, obstructions and correct operation at least monthly.

LPG leakage alarms, carbon monoxide alarms and smoke detectors should be tested at least monthly for correct operation.

LPG systems should be serviced by a competent person at least annually. The servicing should be such as to ensure that the system maintains compliance with the provisions and advice of the current gas safety regulations and standards in practice in the country of destination.

ATTENTION: PLEASE CHECK THAT THE REGULATIONS WHICH ARE INDICATED IN THE FOLLOWING TEXT ARE STILL VALID AND MAINTAIN COMPLIANCE WITH THE PROVISIONS AND ADVICE OF THE CURRENT GAS SAFETY REGULATIONS AND STANDARDS IN PRACTICE IN THE COUNTRY OF DESTINATION. THE APPLIANCE CAN ONLY BE USED IN THE COUNTRY INDICATED IN THIS MANUAL AND INDICATED ON THE DATA LABEL APPLIED ON THE APPLIANCE ITSELF. THE USE OF THIS APPLIANCE IN OTHER COUNTRIES COULD BE NOT PERMITTED.

- The consumer must become familiar with the appliance according to the present instructions booklet. The professional who installs the appliance must hand the present booklet to the consumer
- Appliances shall be installed away from flammable materials and having regard to inadvertent contact of persons and materials with hot surfaces.
- Warning: legal requirements for installation and maintenance: this appliance must be installed and maintained by a competent person in accordance with the current gas safety regulations and standards in practice in the country of destination.
- Warning: in case some parts of the appliance are replaced for servicing (only if authorized by the manufacturer), the appliance must be re-tested (if necessary by the manufacturer) to verify that the appliance is in perfect condition (leakages, safety of operation, combustion quality, ventilation, safety and control devices)
- The competent person must be authorized by the manufacturer

Installation and maintenance of this appliance have to be carried out by a skilled person in accordance with the relevant Regulations, in particular:

- Gas cylinders, regulators, hoses, and any other connection device used for the installation of this appliance must be in accordance to the current standards in practice in the country of destination.
- Change the gas cylinder away from fire or sources of heat
- The minimum distance between the gas cylinder and the appliance must be according to the current regulations.
- The gas hose must be according to the current standards in practice in the country of destination of the appliance and it must be installed according to the regulations and standards in practice in the country of destination
- Do not allow the hose to come into contact with any part of the appliance except the gas inlet located at the rear side of the appliance or under the appliance
- Length of the rubber hose, if permitted, must be in accordance with current regulations
- Never allow the hose to come into contact with the back panel and flue outlet of an oven if present. The hose must be kept away from the flames of the burners (appliances equipped with hob burners), and the exhaust fumes coming out from the flue outlet of an oven if present
- The flexible hose, if permitted by local regulations, must extend along all its length and it must not be entangled or twisted and it must be installed so that even if the appliance is tilted it will not be subject to any kind of distortion or deformation (please carefully check that the hose extends without efforts and that the hose itself, the appliance gas connection or any other gas part are not stressed in case of gimbaled appliances).
- The gas hose must be replaced before the expiry date
- Do not force the gas connection inlet of the cooker or any other part of the appliance when installing the hose.
- The hose must be installed in such a way that it can be always inspected along all its length and so that it can be easily reached for replacement.
- Once installed the gas connection should be tested for any gas leakage. Do ensure that the area is well ventilated and do not test for a long period.
- Warning: never use a flame to test the soundness of the gas circuit
  - A complete check-up of the whole installation has to be carried out punctually
- This appliance must be kept away from inflammable materials, and the partitions and furniture next to the appliance must be heat resistant and not inflammable, the surface / furniture on which the appliance is installed must be able to resist at least a +100°C temperature (with a room temperature of 25°C).
- In order to obtain the best utilization it is necessary to assure a good circulation of air around the appliance (in particular the rear and back side of the appliance must be well ventilated). It has to be installed only in situation of effective ventilation (but do not install the appliance in areas subjected to strong draughts) according to the local regulations. (see FIG.)
- the unit should be installed in any room with:
  - a sufficient air inlet and outlet according to regulations in force
  - a minimum volume according to regulations in force
  - a window with an opening area and a minimum height from the ground according to regulations in force
- There should be no obstruction above the hob burners as indicated in other sections of this manual
- The appliance must not be installed in an inclined plane
- Warning: the appliance must be installed in a safe and stable manner
- The quantity of air necessary for the combustion is approximately 2 cubic meters for each nominal kW produced by the burners
- In the case of any deterioration of any part of the appliance or of the gas installation (for example regulator, rubber tube if present, etc...) have to be replaced by a competent technician

## Emergency Action

A notice detailing the action to be taken when a gas leak is detected, or a fault with the system is discovered, should be prominently displayed on board the vessel/campervan/in the room. The notice should include at least the following:

The need to be alert for gas leakage.

The action to be taken in the event of gas leakage being discovered.

The use and location of fire extinguishing equipment on board the vessel/campervan/in the room.

Any appliance instructions relating to the safe operation of appliances.

The location of shut off valves.

The need to extinguish all flames, cigarettes and not to operate any electrical or other equipment which may induce a spark.

If requested by local regulations, additional notices should be installed according to said regulations.