



USER'S MANUAL INSTALLATION AND SERVICING INSTRUCTIONS

TYPE: B

**FAST R ONM 11
FAST R ONM 14**

GAS WATER HEATER

User's manual

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Dear Customer,

Thank you for choosing an ARISTON gas water heater. We guarantee that your instantaneous water heater is a reliable and technically sound product. This manual provides detailed instructions and recommendations for proper installation, use and maintenance. Remember to keep this manual in a safe place for future reference. Your local ARISTON Servicing Centre is at your complete disposal for all requirements.

FOR YOUR SAFETY

“Important: Read these instructions for use carefully so as to familiarize yourself with the appliance before connecting it to its gas container. Keep these instructions for future reference”.

IF YOU SMELL GAS:

- * Turn off gas supply at bottle
- * Extinguish all naked flames;
- * Do not operate any electrical appliances
- * Ventilate the area
- * Check for leaks as detailed in this manual

If odour persists, contact your dealer or gas supplier immediately

Do not tamper or modify the appliance.

BURN-BACK (FIRE IN BURNER TUBE OR CHAMBER)

In the event of a burn-back, where the flame burns back to the jet, immediately turn the gas supply off at the control valve on the panel. After ensuring the flame is extinguished, wait for 1 minute and re-light the appliance in the normal manner. Should the appliance again burn back, close the control valve and call a service technician. Do not use the appliance again until the service technician has declared that it is safe to do so.

GAS-PRESSURE REGULATOR

This appliance requires an operating pressure of 2,8 kPa at the appliance. A suitable LPG regulator that complies with the requirements of SANS 1237 must be installed.

IMPORTANT INFORMATION FOR THE USER

This appliance may only be installed by a registered SAQCC Gas installer. All registered installers are issued with a card carrying their registration number. Ask to be shown the card before allowing the installation work to commence and make a note of the Installer registration number. Upon completion of the installation, the installer is required to explain the operational details of the appliance together with the safety instructions. You will be asked to sign acceptance of the installation and be provided with a completion certificate. You should only sign for acceptance of the installation when the installation is completed to your satisfaction.

Note that your invoice is required in the event that you wish make a warranty claim.

IMPORTANT INFORMATION FOR THE INSTALLER.

This appliance may only be installed by a gas installer registered with the South African Qualification and Certification Committee (SAQCC). The appliance must be installed in accordance with the requirements of SANS 10087-1 for use with LPG, SANS 827 for use with NG and any fire department regulations and/or local bylaws applicable to the area. If in doubt, check with the relevant authority before undertaking the installation. Upon completion of the installation you are required to fully explain and demonstrate to the user the operational details and safety practices applicable to the appliance and the installation.

THIS BOOK (USER'S AND INSTALLATION MANUAL) IS AN INTEGRAL AND ESSENTIAL COMPONENT OF THE PRODUCT. MUST BE KEPT CAREFULLY BY YOU AND WILL ALWAYS ACCOMPANY THE APPLIANCE IN THE EVENT OF ITS SALE TO ANOTHER OWNER OR USER AND / OR TRANSFER TO ANOTHER INSTALLATION. CAREFULLY READ THE INSTRUCTIONS AND WARNINGS CONTAINED IN THIS MANUAL AS IT CONTAINS IMPORTANT INFORMATION ABOUT SAFE INSTALLATION, OPERATION AND MAINTENANCE

This appliance is designed to produce hot water for domestic use.

It should be connected to a distribution network for domestic hot water that must be compatible with its performance and power levels.

The use of the appliance for purposes other than those specified is strictly forbidden. The manufacturer cannot be held responsible for any damage caused by improper, incorrect and unreasonable use of the appliance or by the failure to comply with the instructions given in this manual.

Installation, maintenance and all other interventions must be carried out in full conformity with the governing legal regulations and the instructions provided by the manufacturer.

Incorrect installation can harm persons, animals and possessions; the manufacturing company shall not be held responsible for any damage caused as a result.

In the event of a fault and/or malfunction, turn the appliance off, turn off the gas cock, remove the batteries and do not attempt to repair it yourself. Contact a qualified professional instead.

All repairs, which should only be performed using original spare parts, should be carried out by a qualified professional. Failure to comply with the above instructions could compromise the safety of the appliance and invalidate all liability on the part of the manufacturer

In the event of any maintenance or other structural work in the immediate vicinity of the ducts or flue gas exhaust devices and their accessories, switch the appliance off, remove the batteries and shutting off the gas control valve.

When the work has been completed, ask a qualified technician to check the efficiency of the ducting and the devices.

If the appliance should be out of use for a prolonged period, it is recommended that the external gas cock be closed and the batteries are removed. If low temperatures are expected, the appliance and system pipe work should be drained in order to prevent frost damage.

When permanently deactivating the appliance, make sure that the operations are carried out by qualified technical professional.

Turn the appliance off and remove the batteries to clean the exterior parts of the appliance.

No inflammable items should be left or used in the vicinity of the appliance.

WARNING!!



Water with a temperature higher than 50° cause serious burns. Always verify water temperature before use.

IMPORTANT!



If the unit is installed in areas with the presence of hard water (> 200 mg / l) is necessary to install a water softener to reduce the precipitation of limestone in the heat exchanger. The warranty does not cover damage caused by the limestone.

WARNING!!



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

WARNING!!



The device must be activated only in presence of water in the exchanger.

Safety regulations

Key to symbols:

Failure to comply with this warning implies the risk of personal injury, in some circumstances even fatal



Failure to comply with this warning implies the risk of damage, in some circumstances even serious, to property, plants or animals.



Do not perform operations which involve opening the appliance.

Electrocution from live components.

Personal injury caused by burns due to overheated components, or wounds caused by sharp edges or protrusions.



Do not perform operations which involve removing the appliance from its installation space .

Electrocution from live components.

Flooding caused by water leaking from disconnected piping.



Explosions, fires or intoxication caused by gas leaking from disconnected piping.



Do not damage the power supply cable.

Electrocution from live uninsulated wires.



Do not leave anything on top of the appliance.

Personal injury caused by an object falling off the appliance as a result of vibrations.



Damage to the appliance or items underneath it caused by the object falling off as a result of vibrations.



Do not climb onto the appliance.

Personal injury caused by the appliance falling.



Damage to the appliance or any objects underneath it caused by the appliance falling away from its installation space.



Do not climb onto chairs, stools, ladders or unstable supports to clean the appliance.

Personal injury caused by falling from a height or cuts (stepladders shutting accidentally).



Do not attempt to clean the appliance without first switching it off and turning the external switch to the OFF position.

Electrocution from live components.



Do not use insecticides, solvents or aggressive detergents to clean the appliance.

Damage to plastic and painted parts.



Do not use the appliance for any use other than normal domestic use.

Damage to the appliance caused by operation overload.



Damage caused to objects treated inappropriately.

Do not allow children or inexperienced individuals to operate the appliance.

Damage to the appliance caused by improper use.



If you detect a smell of burning or smoke coming from the appliance, disconnect it from the electricity supply, turn off the main gas valve, open all windows and call for assistance.

Personal injury caused by burns, smoke inhalation, intoxication.



If there is a strong smell of gas, turn off the main gas valve, open all windows and call for assistance.

Explosions, fires or intoxication.



WARNING

Installation, first ignition and maintenance work must be performed by qualified personnel only, in accordance with the instructions provided.

Incorrect installation may harm individuals, animals or property; the manufacturer will not be held responsible for any damage caused as a result.

IF THE APPLIANCE IS INSTALLED INSIDE THE APARTMENT, MAKE SURE THAT ALL PROVISIONS RELATING TO THE AIR INLET AND ROOM VENTILATION (IN COMPLIANCE WITH CURRENT LEGISLATION) ARE RESPECTED.

Control panel



- 1 - Knob for gas regulation
- 2 - Red L.E.D. - battery power level
- 3 - D.H.W flow/temperature knob

Battery insertion

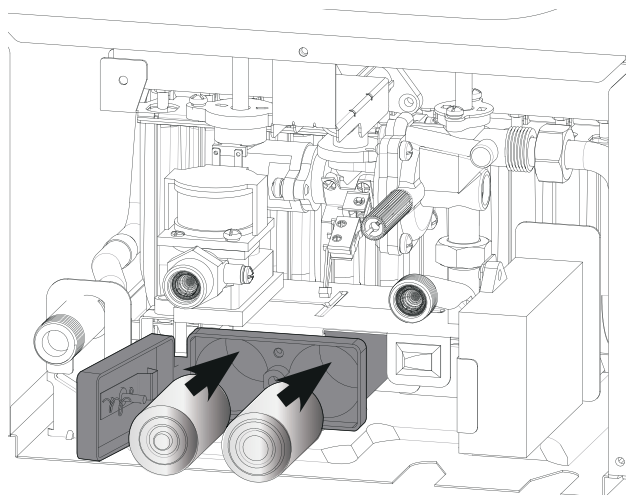
- unhook the battery compartment cover placed on the bottom of the appliance
- Insert 2 batteries (1,5V LR20) in the appropriate compartment while observing the polarities indicated on the device.

Battery replacement

- unhook the battery compartment cover placed on the bottom of the appliance
- remove the battery and replace observing the polarities indicated on the device.

ATTENTION!!

**BATTERIES CAN NOT BE DISPOSED OF IN THE ENVIRONMENT
USED BATTERIES CAN NOT BE UTILIZED.**



Ignition procedure

- ensure that the cock located on the cold water fitting is open
- ensure that the gas cock is open
- make sure the batteries provided (1.5V LR20) were correctly inserted.
- Turn the knobs between the positions of minimum and maximum.



The device is ready to operate

By opening a tap, the device automatically starts operating.e.

Note: If the device does not operate, ensure that the gas and/or cold water cocks are open. Ensure that the device is electrically powered. Make sure the batteries were inserted.

When closing the tap, the device automatically switches off.

WARNING!!

Water with a temperature higher than 50°C can cause serious burns. Always verify water temperature before use.



WARNING!!

The casing can reach high temperatures in the area of the burner.



Appliance power adjustment

The knob lets you adjust the water temperature and power:

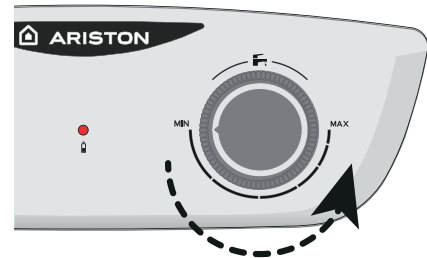
- Turn clockwise to increase heat output. The water temperature increases.
- Turn anticlockwise to decrease heat output. The water temperature decreases.



Flow rate and water temperature adjustment

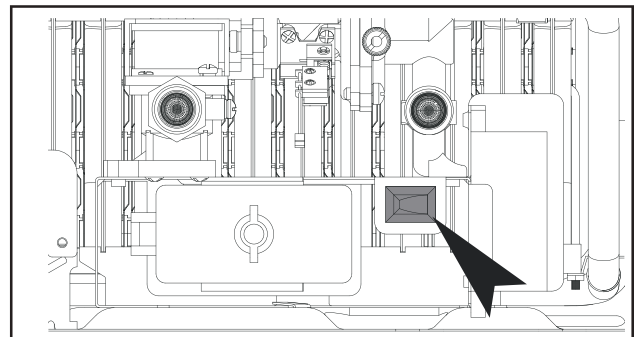
The knob lets you adjust the flow rate and the water temperature:

- Turn anticlockwise to increase the flow rate. The water temperature decreases.
- Turn clockwise to decrease the flow rate. The water temperature increase.



Switching off procedure

Press the ON/OFF button placed under the appliance.



To switch off the device completely close the gas isolation valve.

Appliance shut-off conditions


The appliance is protected from malfunctions by means of internal checks which stops the appliance from operating if necessary.
In the event of lockout see table below.

Table failures

| Description | Checks to make |
|--|--|
| Battery exhausted RED L.E.D. Fixed | Replace battery |
| No hot water produced The appliance won't start | <ul style="list-style-type: none">- Ensure that the gas isolation valve is open- Ensure that the inlet water isolation valve is open- Ensure the knob is not in OFF position- Check/Replace batteries |

IF THE APPLIANCE WON'T START AGAIN OR STOPS REPEATEDLY, ONCE YOU'VE CARRIED OUT THE RELEVANT CHECKS, TURN THE KNOB TO THE OFF POSITION, CLOSE THE GAS VALVE, REMOVE THE BATTERIES AND CONTACT A QUALIFIED TECHNICIAN.

SHOULD THE CAUSE OF THE BLOCK NOT BE ELIMINATED, DO NOT ACTIVATE THE APPLIANCE.

WARNING!! 

NEVER TAMPER WITH OR DECOMMISSION THE FLUE GAS SENSOR. THIS COULD AFFECT THE PROPER OPERATION OF THE APPLIANCE.

POOR DRAUGHT CONDITIONS COULD CAUSE EXHAUST GAS BACKFLOW INTO THE INSTALLATION ROOM.

HAZARD OF CARBON MONOXIDE INTOXICATION

Shut-Off due to defective flue gas discharge

This device causes the appliance to shut down in the event of an anomaly in the flue gas discharge.
The appliance shutdown is temporary.
When normal conditions have been restored, the appliance operates as normal. If not, the appliance shuts down and the cycle is not repeated.

WARNING!
IN THE EVENT OF A MALFUNCTION OR IF REPEATED INTERVENTION IS REQUIRED, SWITCH OFF THE APPLIANCE, REMOVE THE BATTERIES AND SHUT OFF THE GAS VALVE.
CONTACT THE TECHNICAL ASSISTANCE SERVICE OR A QUALIFIED TECHNICIAN IN ORDER TO REPAIR THE FLUE GAS DISCHARGE FAULT ONCE THE CAUSE OF THE MALFUNCTION IS DETECTED.

Anti-freeze protection

Should the appliance be installed where pipes are subjected to freezing, it is recommended to empty it.
Proceed as indicated below:

- Switch off the appliance.
- Remove the batteries
- Close the cold water inlet isolation valve
- Open the DHW taps until both the appliance and pipes are completely emptied.

To fill the appliance again, open the cold water inlet isolation valve together with DHW taps until water flows steadily from all taps.

Change of gas type

Our instantaneous water heaters are designed to function either with Natural Gas (methane) or L.P.G. gas.
If you need to change from one gas to the other, one of our Authorised Service Centres must be contacted to convert the appliance.

Maintenance


Schedule an annual maintenance check-up for the appliance with a competent person.
Correct maintenance always results in savings in the cost of running the system.
Failure to arrange an annual service for the appliance will invalidate the second year of the manufacturers warranty.

Installation and servicing instructions (Only for qualified technician)

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IMPORTANT INFORMATION FOR THE INSTALLER.

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ADVICE FOR THE INSTALLER
THE INSTALLATION AND FIRST IGNITION OF THE APPLIANCE MUST BE PERFORMED BY QUALIFIED PERSONNEL IN COMPLIANCE WITH CURRENT NATIONAL REGULATIONS REGARDING INSTALLATION, AND IN CONFORMITY WITH ANY REQUIREMENTS ESTABLISHED BY LOCAL AUTHORITIES AND PUBLIC HEALTH ORGANISATIONS.

This appliance is designed to produce hot water for domestic use.

It should be connected to a distribution network for domestic hot water that must be compatible with its performance and power levels.

The use of the appliance for purposes other than those specified is strictly forbidden. The manufacturer cannot be held responsible for any damage caused by improper, incorrect and unreasonable use of the appliance or by the failure to comply with the instructions given in this manual.

Installation, maintenance and all other interventions must be carried out in full conformity with the governing legal regulations and the instructions provided by the manufacturer.

Incorrect installation can harm persons, animals and possessions; the manufacturing company shall not be held responsible for any damage caused as a result.

The appliance is delivered in a carton. Once you have removed all the packaging, make sure the appliance is intact and that no parts are missing. If this is not the case, please contact your supplier.

Keep all packaging material (clips, plastic bags, polystyrene foam, etc.) out of reach of children as it may present a potential hazard.

In the event of a fault and/or malfunction, turn the appliance off, turn off the gas cock, remove the batteries and do not attempt to repair it yourself. Contact a qualified professional instead.

All repairs, which should only be performed using original spare parts, should be carried out by a qualified professional. Failure to comply with the above instructions could compromise the safety of the appliance and invalidate all liability on the part of the manufacturer.

In the event of any maintenance or other structural work in the immediate vicinity of the ducts or flue gas exhaust devices and their accessories, switch OFF the appliance remove the batteries and shutting off the gas control valve.

When the work has been completed, ask a qualified technician to check the efficiency of the ducting and the devices.

Turn the appliance OFF and remove the batteries to clean the exterior parts of the appliance.

Clean using a cloth dampened with soapy water. Do not use aggressive detergents, insecticides or toxic products.

If the appliance is used in full compliance with current legislation, it will operate in a safe, environmentally-friendly and cost-efficient manner. If using kits or optional extras, make sure they are authentic.

WARNING!!



Water with a temperature higher than 50°C can cause serious burns.

Always verify water temperature before use.

WARNING!!



THE DEVICE MUST BE ACTIVATED ONLY IN PRESENCE OF WATER IN THE EXCHANGER.

Safety regulations

Key to symbols:

Failure to comply with this warning implies the risk of personal injury, in some circumstances even fatal



Failure to comply with this warning implies the risk of damage, in some circumstances even serious, to property, plants or animals.



Install the appliance on a solid wall which is not subject to vibration.

Noisiness during operation.



When drilling holes in the wall for installation purposes, take care not to damage any electrical wiring or existing piping.

Electrocution caused by contact with live wires. Explosions, fires or asphyxiation caused by gas leaking from damaged piping.



Damage to existing installations.

Flooding caused by water leaking from damaged piping.



Perform all electrical connections using wires which have a suitable section.

Fire caused by overheating due to electrical current passing through undersized cables.



Protect all connection pipes and wires in order to prevent them from being damaged.

Electrocution caused by contact with live wires. Explosions, fires or asphyxiation caused by gas leaking from damaged piping.



Flooding caused by water leaking from damaged piping.



Make sure the installation site and any systems to which the appliance must be connected comply with the applicable norms in force.

Electrocution caused by contact with live wires which have been installed incorrectly.



Damage to the appliance caused by improper operating conditions.



Use suitable manual tools and equipment (make sure in particular that the tool is not worn out and that its handle is fixed properly); use them correctly and make sure they do not fall from a height. Replace them once you have finished using them.

Personal injury from the falling splinters or fragments, inhalation of dust, shocks, cuts, pricks and abrasions.



Damage to the appliance or surrounding objects caused by falling splinters, knocks and incisions.



Use electrical equipment suitable for its intended use (in particular, make sure that the power supply cable and plug are intact and that the parts featuring rotary or reciprocating motions are fastened correctly); use this equipment correctly; do not obstruct passageways with the power supply cable, make sure no equipment could fall from a height. Disconnect it and replace it safely after use.

Personal injury caused by falling splinters or fragments, inhalation of dust, knocks, cuts, puncture wounds, abrasions, noise and vibration.



Damage to the appliance or surrounding objects caused by falling splinters, knocks and incisions.



Make sure any portable ladders are positioned securely, that they are suitably strong and that the steps are intact and not slippery and do not wobble when someone climbs them. Ensure someone provides supervision at all times.

Personal injury caused by falling from a height or cuts (stepladders shutting accidentally).




Make sure any rolling ladders are positioned securely, that they are suitably strong, that the steps are intact and not slippery and that the ladders are fitted with handrails on either side of the ladder and parapets on the landing.


Personal injury caused by falling from a height.




During all work carried out at a certain height (generally with a difference in height of more than two metres), make sure that parapets are used to surround the work area or that individual harnesses are used to prevent falls. The space where any accidental fall may occur should be free from dangerous obstacles, and any impact upon falling should be cushioned by semi-rigid or deformable surfaces.

Personal injury caused by falling from a height. 


Make sure the workplace has suitable hygiene and sanitary conditions in terms of lighting, ventilation and solidity of the structures.

Personal injury caused by knocks, stumbling etc. 


Protect the appliance and all areas in the vicinity of the work place using suitable material.

Damage to the appliance or surrounding objects caused by falling splinters, knocks and incisions. 


Handle the appliance with suitable protection and with care.

Damage to the appliance or surrounding objects from shocks, knocks, incisions and squashing. 


During all work procedures, wear individual protective clothing and equipment.

Personal injury caused by electrocution, falling splinters or fragments, inhalation of dust, shocks, cuts, puncture wounds, abrasions, noise and vibration. 



Place all debris and equipment in such a way as to make movement easy and safe, avoiding the formation of any piles which could yield or collapse.

Damage to the appliance or surrounding objects from shocks, knocks, incisions and squashing. 


All operations inside the appliance must be performed with the necessary caution in order to avoid abrupt contact with sharp parts.

Personal injury caused by cuts, puncture wounds and abrasions. 


Reset all the safety and control functions affected by any work performed on the appliance and make sure they operate correctly before restarting the appliance.


Explosions, fires or asphyxiation caused by gas leaks or an incorrect flue gas exhaust. Damage or shutdown of the appliance caused by out-of-control operation. 


Before handling, empty all components that may contain hot water, carrying out any bleeding if necessary.


Personal injury caused by burns. 

Descale the components, in accordance with the instructions provided on the safety data sheet of the product used, airing the room, wearing protective clothing, avoid mixing different products, and protect the appliance and surrounding objects.

Personal injury caused by acidic substances coming into contact with skin or eyes; inhaling or swallowing harmful chemical agents. 

Damage to the appliance or surrounding objects due to corrosion caused by acidic substances. 

If you detect a smell of burning or smoke, keep clear of the appliance, disconnect it from the electricity supply, open all windows and contact the technician.

Personal injury caused by burns, smoke inhalation, asphyxiation. 



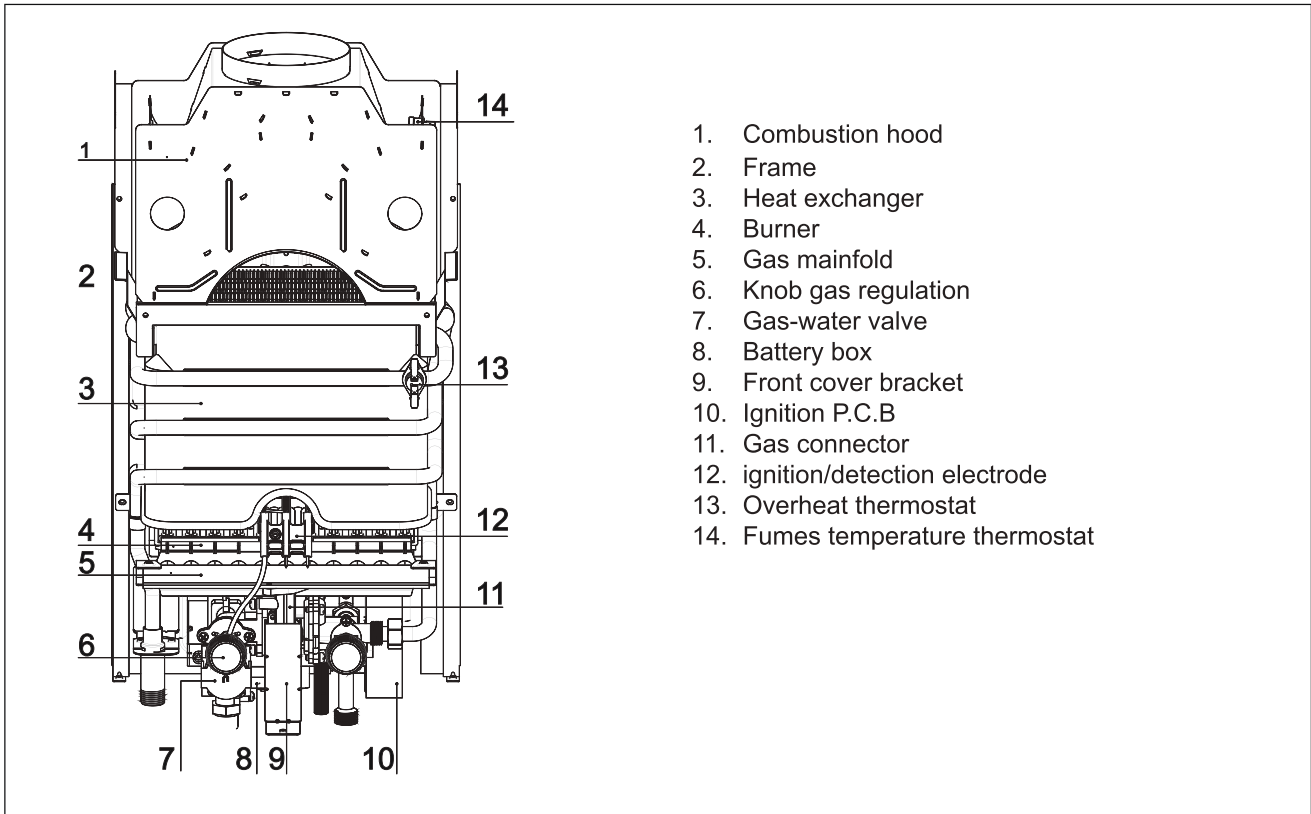
Permit Number:
1317-1/1-RSA-12-A

Check for the Safe Appliance Mark (above) and the Verification Permit number-on the product or in the instruction manual. The hose and regulator should also be 'approved'.

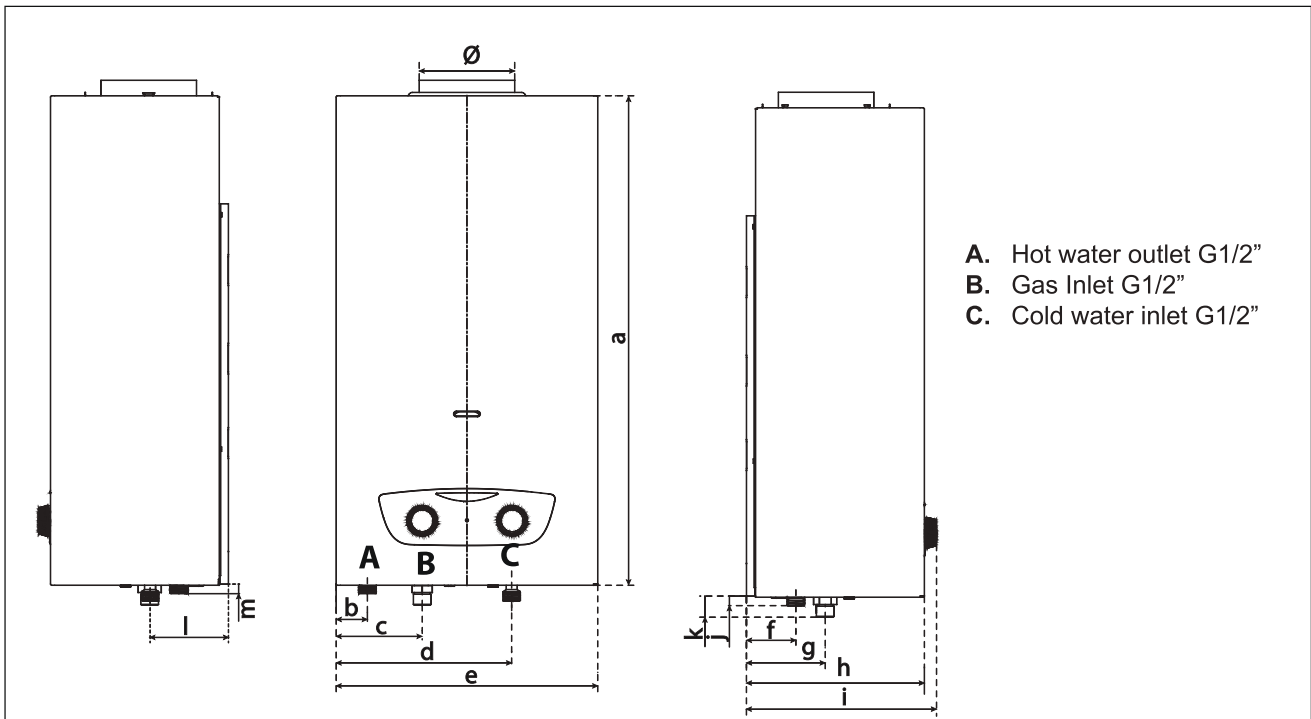
Check the suitability: LPGas or Natural Gas.

Do not tamper with the appliance in any way. It may have warranty implications.

Overall view



Overall dimensions



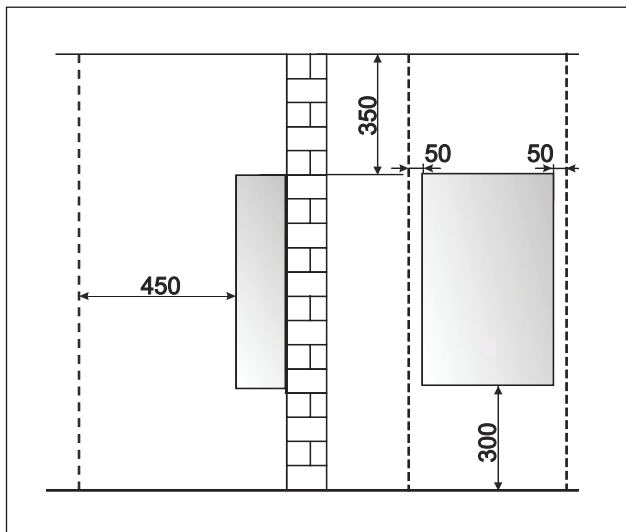
| Model | Ø | a | b | c | d | e | f | g | h | i | j | k | l | m | weight | |
|-------|-----|-----|----|-----|-----|-----|------|------|-------|-------|------|----|------|------|--------|------|
| | | | | | | | | | | | | | | | gross | net |
| 11 L | 113 | 580 | 37 | 102 | 208 | 310 | 58,8 | 93,3 | 210,8 | 255,2 | 11,4 | 25 | 92,8 | 20,1 | 11,5 | 9,8 |
| 14 L | 132 | | 70 | 132 | 238 | 370 | | | | | | | | | 12,7 | 11,2 |

product description

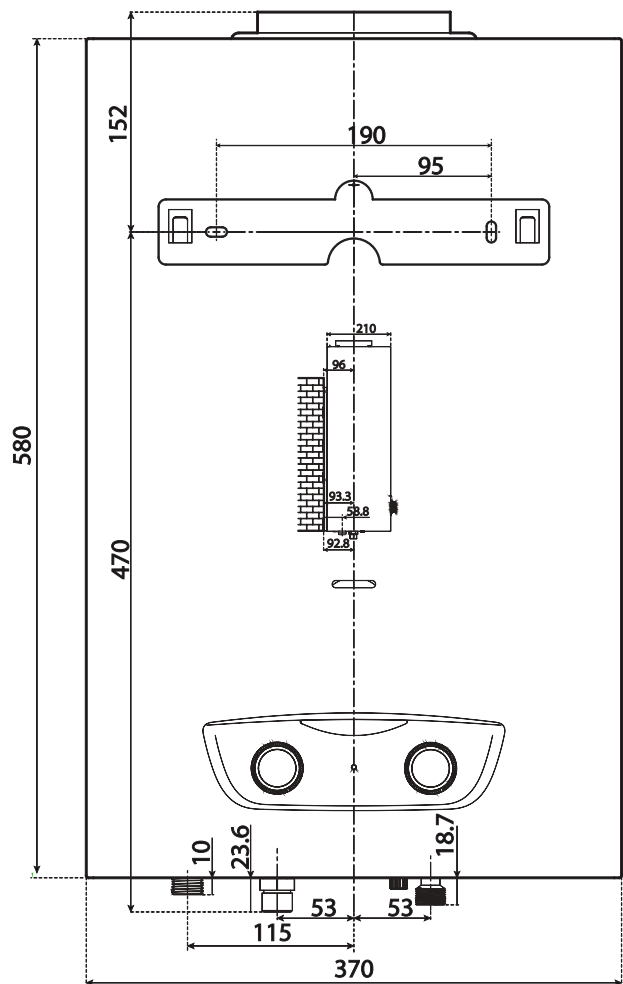
Minimum clearances

In order to allow easy access to the appliance for maintenance operations.

The appliance must be installed in accordance with the clearances stated below.



Template



Before installing the appliance

The appliance heat water to a temperature below boiling. It should be connected to a domestic water mains supply, that must correspond in size to the performance and its power of the appliance.

Before connecting the appliance, it is first necessary to perform the following operations:

- Carefully wash the system piping in order to remove any screw thread or welding residues, or any dirt which might prevent the appliances from operating correctly.
- Make sure that the appliance is set up for operation with the type of gas available (read the information on the packaging label and on the appliance data plate).
- Make sure that there are no obstacles inside flue exhaust and that it does not contain any discharge from other appliances, unless the flue is meant to serve more than one user (in accordance with current legal requirements).
- Where there is already a connection to existing flue exhausts, check that these exhausts have been perfectly cleaned and are without residues, because any disconnection could obstruct the passage of fumes and create potentially dangerous situations.
- Make sure that, where unsuitable flue exhausts are attached, they have been ducted.
- In areas with particularly hard water, limescale may build up on the components inside the appliance and reduce its overall efficiency.

B11bs-type appliances are open-chamber versions

designed to be connection to a flue gas discharge duct which releases fumes towards the outside; combustion air is taken directly from inside the room in which the boiler is installed.

Flue gas is discharged through a natural draught system.

THIS TYPE OF BOILER CANNOT BE INSTALLED IN A ROOM THAT DOES NOT MEET APPROPRIATE VENTILATION REQUIREMENTS.

So that the normal operation of the appliance is not compromised, the place in which it is installed must be suitable with regard to the operating limit temperature value and the appliance should be protected so that it does not come into direct contact with atmospheric agents.

The appliance must be installed on a solid, non-combustible, permanent wall to prevent access from the rear.

When creating a space for the boiler, the minimum distances (which ensure that various parts of the appliance may be accessed after it has been installed) should be respected.

WARNING!!



NO INFLAMMABLE ITEMS SHOULD BE LEFT IN THE VICINITY OF THE APPLIANCE.

MAKE SURE THE INSTALLATION SITE AND ANY SYSTEMS TO WHICH THE APPLIANCE MUST BE CONNECTED ARE FULLY COMPLIANT WITH THE CURRENT APPLICABLE LEGISLATION.

IF DUST AND/OR AGGRESSIVE VAPOURS ARE PRESENT IN THE ROOM IN WHICH IT IS TO BE INSTALLED, THE APPLIANCE MUST OPERATE INDEPENDENTLY OF THE AIR INSIDE THE ROOM.

WARNING!!



THE INSTALLATION AND FIRST IGNITION OF THE APPLIANCE MUST BE PERFORMED BY QUALIFIED PERSONNEL IN COMPLIANCE WITH CURRENT NATIONAL REGULATIONS REGARDING INSTALLATION, AND IN CONFORMITY WITH ANY REQUIREMENTS ESTABLISHED BY LOCAL AUTHORITIES AND PUBLIC HEALTH ORGANISATIONS.

Installation location

Observe the regulations in force, when deciding where to install the device.

Install the appliance in a PERFECTLY VERTICAL POSITION.

**The device must not be installed near heat sources
Do not install the device in environments where temperatures may reach 0°C**

For installation inside furniture, consider that the maximum temperature of the device jacket is lower than 85°C and distances required for maintenance must be respected.

installation

Gas connection

The appliance was designed to use gases belonging to the categories as shown in the following table.

| COUNTRY | MODEL | CATEGORIES |
|--------------|--------------------------------|------------|
| South Africa | FAST R ONM 11 FAST R ONM 14 | LPG |

Make sure, using the labels on the packaging and the data plate on the appliance itself, that the appliance is in the correct country and that the gas category for which the appliance was designed corresponds to one of the categories available in the country where it will be used. The gas supply piping must be created and measured out in compliance with specific legal requirements and in accordance with the maximum power of the appliance; you should also make sure that the shut-off valve is the right size and that it is connected correctly.

Before carrying out the installation, it is recommended that the fuel pipes are cleaned thoroughly in order to remove any residues which could prevent the appliance from operating correctly.

Check that the supplied gas corresponds to the type of gas for which the appliance was designed (see the data plate located on the appliance itself).

It is also important to check that the pressure of the gas (methane or LPG) you will be using to feed the appliance is suitable, because if it is insufficient the power of the generator may be reduced, causing inconvenience for the user.

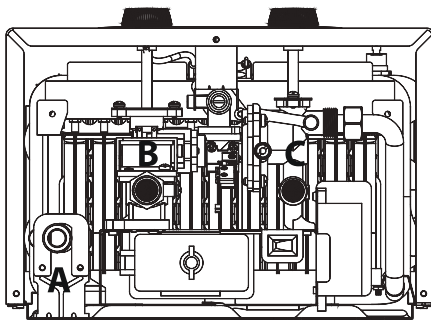
Water connection

The illustration shows the connections for the water and gas attachments of the appliance.

Check that the **maximum water mains pressure does not exceed 10 bar**; if it does, a pressure reducing valve must be installed.

Ensure that the minimum pressure is not lower than 0,2 bar.

View of the hydraulic Connections



- A. Hot water outlet G1/2"
- B. Gas inlet G1/2"
- C. Cold water inlet G1/2"

The device is equipped with a filter, located on the cold water entrance. Periodically clean the hydraulic system, if dirt is present.

IMPORTANT!!

Do not activate the device without the filter.

IMPORTANT!

If the unit is installed in areas with the presence of hard water (> 200 mg / l) is necessary to install a water softener to reduce the precipitation of limestone in the heat exchanger.

The warranty does not cover damage caused by the limestone.

IMPORTANT!

If the unit is installed outside it must be covered with a weather box.

WARNING!

The appliance must not be placed in installations with pre-heated water or hot water circulation.



Connection of flue gas discharge ducts

The device must be connected to a flue gas discharge system that complies with the regulation in force and instructions provided by the manufacturer.

WHEN TYPE B INSTALLATION IS USED, THE ROOM IN WHICH THE APPLIANCE IS INSTALLED MUST BE VENTILATED USING A SUITABLE AIR INLET WHICH COMPLIES WITH CURRENT LEGISLATION.

When installing an exhaust system, take care of the seals to prevent any flue gas leaking into the air circuit.

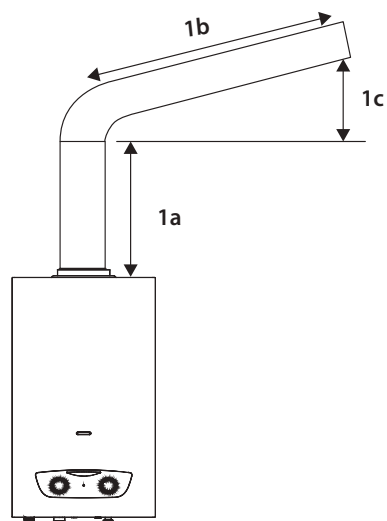
WARNING!!



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POOR DRAUGHT CONDITIONS COULD CAUSE EXHAUST GAS BACKFLOW INTO THE INSTALLATION ROOM.

HAZARD OF CARBON MONOXIDE INTOXICATION

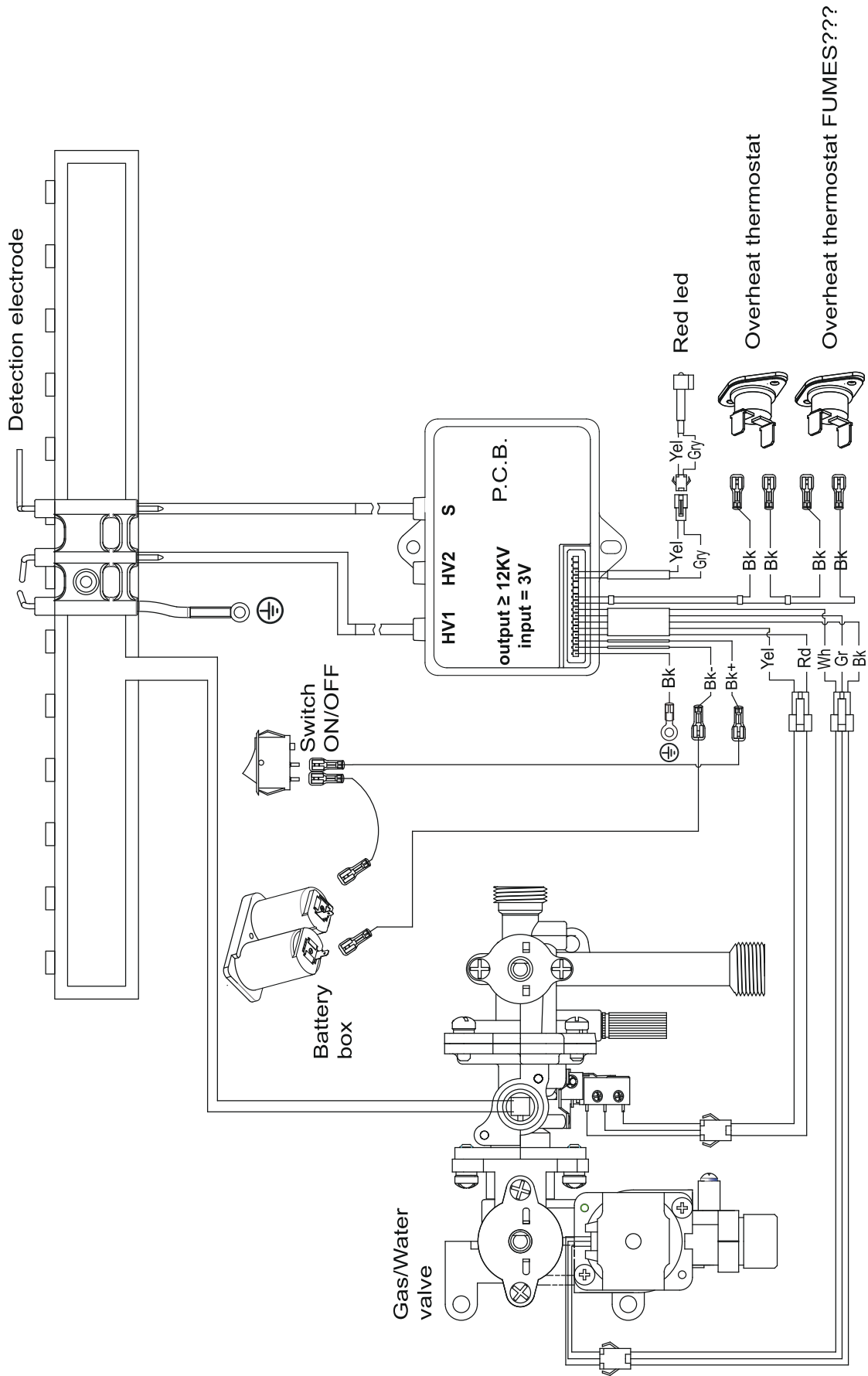


| | 1a | 1b | 1c |
|-------------------|---------|--------|------|
| FAST R ONM | ≥ 50 cm | 100 cm | 8 cm |

Note: Please contact our customer service if there is not enough space to install the evacuation pipe or more complicated pipe connections are required. We will report the best configuration to you.

installation

Electrical diagram



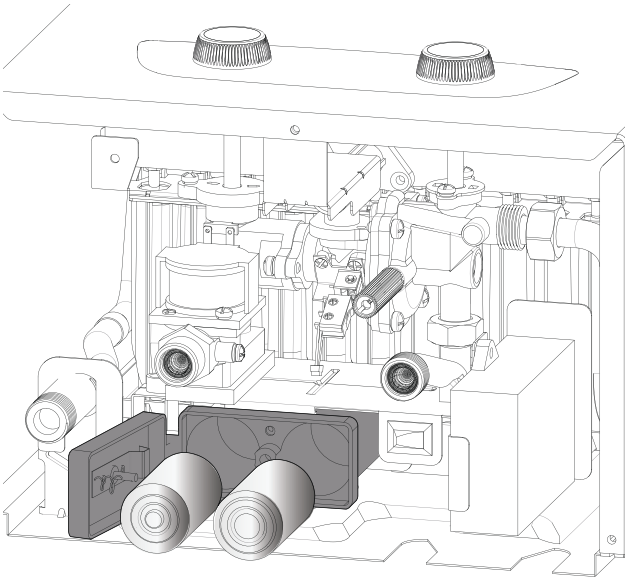
Initial procedures

To guarantee safety and the correct operation of the appliance, the appliance must be prepared for operation by a qualified technician who possesses the skills which are required by law.

It's necessary check the gas adjustments when you start the appliance for the first time.

Electricity supply

- Insert the batteries into the relevant compartment correctly based on their polarities.



First ignition

The first start-up must be carried out by a qualified technician.

1. Make sure that:

- The gas valve is open;
- the exhaust duct for combustion products should be suitable and free from any obstructions;
- Any necessary ventilation inlets in the room should be open (type B installation).

Turn the knobs between the positions of minimum and maximum.

Start the appliance by opening a D.H.W. tap.

WARNING!!



Water with a temperature higher than 50°C can cause serious burns.

Always verify water temperature before use.

WARNING!!



DO NOT USE THE APPLIANCE WITHOUT WATER.

Filling the hydraulic circuit

Proceed in the following manner:

- **Gradually** open the valve located on the cold inlet;
- open a D.H.W. tap.

WARNING!!

DO NOT USE THE APPLIANCE WITHOUT WATER.

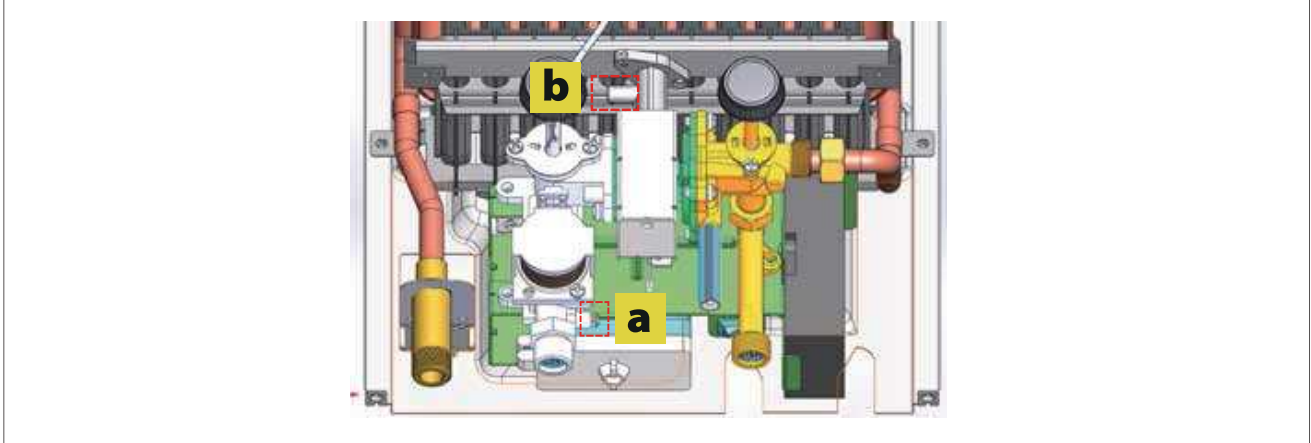
Gas supply

Proceed in the following manner:

- Make sure that the main gas supply uses the same type of gas as indicated on the appliance data plate;
- Open all doors and windows;
- Make sure there are no sparks or naked flames in the room;
- Make sure that the system does not leak fuel using a cut-off valve inside the appliance itself which should be closed and then opened while the gas valve is disabled. The meter must not show any signs of gas being used for 10 minutes. .

commissioning

Checking the gas settings



Supply pressure check

1. Close the gas valve
2. Loosen screw “a” and insert the pressure gauge connection pipe into the pipe tap.
3. Open the gas valve
4. Switch the appliance ON by opening a DHW tap.
The supply pressure should correspond to the value established in relation to the type of gas for which the appliance is designed.

WARNING!!

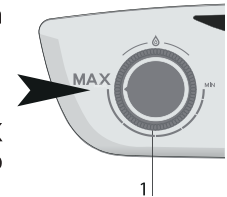


Should the inlet pressure not correspond to what indicated on the Gas Summary Table, DO NOT ACTIVATE THE DEVICE.

5. Switch the appliance OFF by closing the DHW tap.
6. Close the gas valve
7. When the check is over, tighten screw “a” and make sure it is securely in place
8. Open the gas valve and check the tightness of the screw.

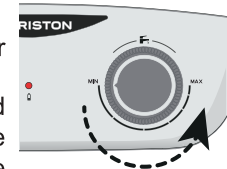
Checking the maximum pressure (see the Gas setting table)

1. Close the gas valve
2. Loosen screw “b” and insert the manometer connection pipe into the pipe tap.
3. Open the gas valve
4. Open one hot water tap.
5. Turn the knob **1** on MAX position, (Appliance forced to maximum power).
Turn the knob **2** turn in central position.



6. Check the maximum burner pressure.

The pressure should correspond to the value established in relation to the type of gas for which the appliance is designed.



7. Switch the appliance OFF by closing the DHW tap.
8. Check is over, close the gas valve and tighten the screw “b”, make sure it is securely in place
Check the tightness of the screw.

WARNING!!



Should the maximum burner pressure not correspond to what indicated on the Gas Summary Table, DO NOT ACTIVATE THE DEVICE.

Gas setting table

| | | FAST R ONM 11 | | FAST R ONM 14 | |
|---|-------------------|---------------|-------|---------------|-------|
| | | NG | LPG | NG | LPG |
| lower Wobbe index (15°C, 1013 mbar) | MJ/m ³ | 45,67 | 80,58 | 45,67 | 80,58 |
| Gas inlet pressure | mbar | 20 | 28 | 20 | 28 |
| Gas Burner Pressure MAX | mbar | 14,3 | 25,6 | 14,2 | 23,0 |
| Gas Burner Pressure MIN | mbar | 2,3 | 4,2 | 2,3 | 3,7 |
| Main Burner jets | nr. | 11 | | 13 | |
| Ø burner jets | mm | 1,15 | 0,75 | 1,20 | 0,78 |
| Maximum consumption (15°C, 1013 mbar) (G.N.= m3/h) (GPL = Kg/h) | MAX | 2,23 | 1,7 | 2,75 | 2,13 |

appliance protection devices

Appliance shut-off conditions

The appliance is protected from malfunctions by means of internal checks, which stops the appliance from operating if necessary.

In the event of lockout see table below.

Table failures

| Description | Checks to make |
|--|--|
| Battery exhausted RED L.E.D. Fixed | Replace battery |
| No hot water produced The appliance won't start | <ul style="list-style-type: none"> - Ensure that the gas isolation valve is open - Ensure that the inlet water isolation valve is open - Verify position of the ON/OFF button - Check/Replace batteries |
| Low temperature water. | Verify the position of the DHW temperature Knob and set the desired temperature. |
| The burner switch OFF out during use. | <ul style="list-style-type: none"> - Safety shut-off for overheating. Restart the device after 10 minutes. If the fault reappears, contact an authorized technician. - Temporary Shut-Off due to defective flue gas discharge. Restart the device after 10 minutes. If the fault reappears, contact an authorized technician. Make sure the flue pipe outlet is properly installed Check if the flue pipe is partially obstructed. |
| Reduced water flow rate. | <p>Low water supply pressure</p> <p>Water taps or mixer dirty.</p> <p>Presence of limescale in the heat exchanger</p> |

IF THE APPLIANCE WON'T START AGAIN OR STOPS REPEATEDLY, ONCE YOU'VE CARRIED OUT THE RELEVANT CHECKS, TURN OFF THE DEVICE, CLOSE THE GAS VALVE, REMOVE THE BATTERIES AND CONTACT A QUALIFIED TECHNICIAN.

SHOULD THE CAUSE OF THE BLOCK NOT BE ELIMINATED, DO NOT ACTIVATE THE APPLIANCE.

ALL REPAIRS, WHICH SHOULD ONLY BE PERFORMED USING ORIGINAL SPARE PARTS, SHOULD BE CARRIED OUT BY A QUALIFIED PROFESSIONAL.

WARNING!!



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POOR DRAUGHT CONDITIONS COULD CAUSE EXHAUST GAS BACKFLOW INTO THE INSTALLATION ROOM.

HAZARD OF CARBON MONOXIDE INTOXICATION

WARNING!!



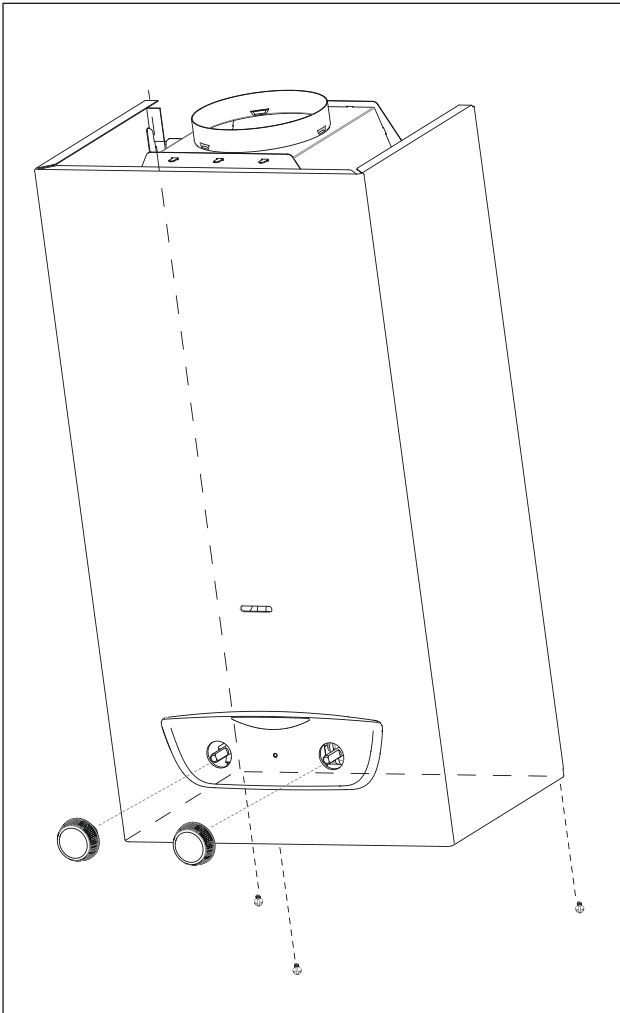
DO NOT USE THE APPLIANCE WITHOUT WATER.

Instructions for opening the casing and performing an internal inspection

Before performing any work on the appliance, remove the batteries and close the gas valve.

To access the inside of the appliance, you need to:

- Remove the knobs
- Remove the three screws



Maintenance is an essential part of the safe and efficient operation of the appliance and ensures its durability. It should be performed according to the instructions given in current legislation.

Before beginning maintenance work:


- Remove the batteries
- Close the gas valve and the domestic hot water system valve.

After the work has been completed the initial settings will be restored.

General comments

It is recommended that the following inspections be carried out on the appliance at least once a year:

1. Check the seals in the water part and, if necessary, replace the gaskets and restore the seal to perfect working order.
 2. Check the seals in the gas part and, if necessary, replace the gaskets and restore the seal to perfect working order.
 3. Visually check the overall condition of the appliance.
 4. Visually check the combustion and, if necessary, disassemble and clean the burner.
 5. Following the inspection detailed in point "3", disassemble and clean the combustion chamber, if necessary.
 6. Following the inspection detailed in point "4", disassemble and clean the burner and injector, if necessary.
 7. Cleaning the primary heat exchanger
 8. Make sure the following safety devices are operating correctly:
 - temperature limit safety device.
 - flue gas safety
 9. Make sure that the following gas part safety devices are operating correctly:
 - absence of gas or flame safety device (ionisation).
 10. Check the efficiency of production of hot water (check the flow rate and temperature).
 11. Cleaning the filter in cold water inlet.
- WARNING! THE APPLIANCE MUST NOT BE PUT IN FUNCTION WITHOUT FILTER.**
12. Perform a general inspection of the appliance operation.
 13. Remove oxide from the detection electrode using an emery cloth.

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HAZARD OF CARBON MONOXIDE INTOXICATION

maintenance

Operational test

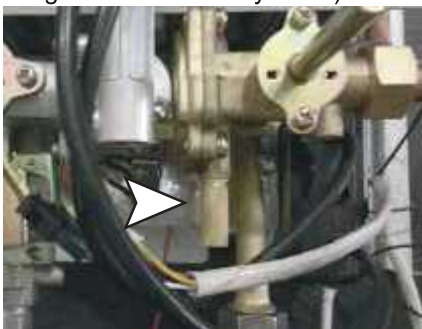
After having carried out the maintenance operations, fill the appliance and the water circuit.

- Begin operating the appliance.
- Check the settings and make sure all the command, adjustment and monitoring parts are working correctly.
- **Check the seal and that the system for the expulsion of fumes/suction of comburent air is operating correctly.**

Draining procedures

The system must be drained using the following procedure:

- Remove the batteries,
- Shut off the water mains inlet valve,
- Unscrew the drain screw (Attention to the spring and the gasket of the safety valve).



- Open the hot and cold water taps.

WARNING

Before handling, empty all components which may contain hot water, performing bleeding where necessary. Descale the components in accordance with the instructions provided on the safety data leaflet supplied with the product used, make sure the room is well ventilated, wear protective clothing, avoid mixing different products, and protect the appliance and surrounding objects.

Seal all openings used to take a gas pressure reading or to make any gas adjustments.

Make sure that the nozzle is compatible with the supplied gas.

If a smell of burning is detected or smoke is seen leaking from the appliance, or there is a smell of gas, disconnect it from the electricity supply, shut off the gas valve, open the windows and call for technical assistance.

Information for the user

Inform the user on how to operate the appliance.

In particular, provide the user with the instruction manuals and inform him/her that these must be stored with the appliance.

Moreover, make sure the user is aware of the following:

- How to set the temperature and adjustment devices for using the appliance correctly and in a more cost-efficient way.
- The system must be serviced regularly in compliance with legislation.
- The settings relating to the supply of combustion air and combustion gas must not in any event be modified.

Technical Data

| Model name : | | FAST R ONM 11 | FAST R ONM 14 | | |
|--|-------------------|-----------------------------|---------------|-----------------------------|------|
| Type | | B | B | | |
| Maximum nominal heat input | kW | 21,5 | 27,0 | | |
| Minimum nominal heat input | kW | 8,5 | 10,5 | | |
| Maximum nominal heat output | kW | 18,5 | 23,0 | | |
| Minimum nominal heat output | kW | 7,2 | 9,0 | | |
| | | | | | |
| D.H.W. Nominal flow rate | l/min | 11 | 14 | | |
| Water pressure maximum | bar | 10 | 10 | | |
| Water pressure minimum | bar | 0,15 | 0,2 | | |
| | | | | | |
| Required flow rate - combustion air | m ³ /h | 35,9 | 45,4 | | |
| Flue fumes temperature at Minimum nominal heat input | °C | 170 | | 190 | |
| | | NG | LPG | NG | LPG |
| Minimum draft | Pa | 8 | 8 | 12 | 12 |
| CO ₂ content | % | 6,66 | 8,04 | 6,83 | 8,13 |
| MAX capacity fumes (G20) | g/s | 13,4 | | 16,9 | |
| Minimum operating room temperature | °C | +5 | | +5 | |
| | | | | | |
| Dimensions: | | | | | |
| Height | mm | 580 | | 580 | |
| Width | mm | 310 | | 370 | |
| Depth | mm | 210 | | 210 | |
| | | | | | |
| Electricity supply - Batteries | | 2x1,5V LR20 | | 2x1,5V LR20 | |
| Ignition | | by means of electric sparks | | by means of electric sparks | |



ITALIAN DESIGN

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