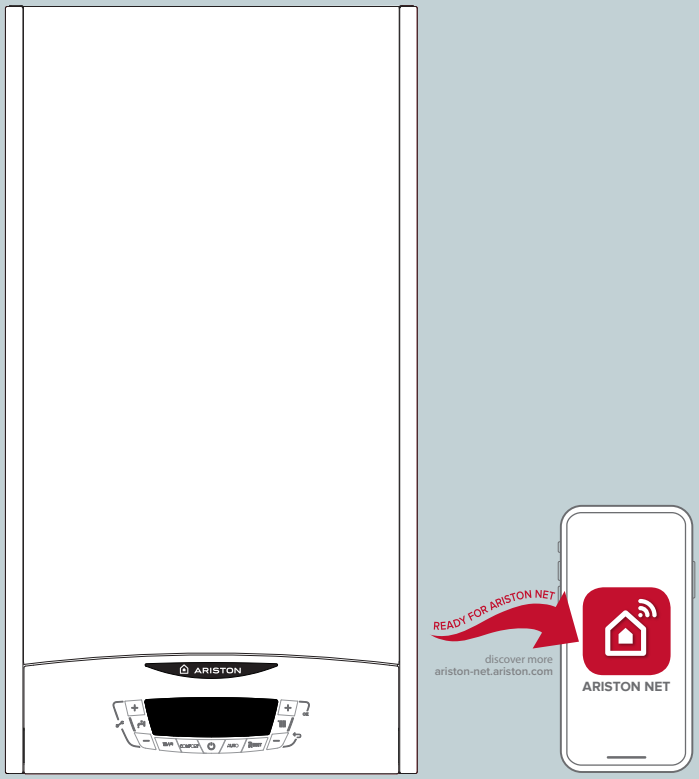


G.C.N.: **47-116-96** (24 kW)
G.C.N.: **47-116-97** (30 kW)

ARISTON

E-COMBI ONE LPG

USER'S MANUAL

CONDENSING WALL-HUNG GAS BOILER

Country of Destination: GB/IE

kiwa approved product
UK WATER SUPPLY REGULATIONS

benchmark COLLECTIVE MARK
THE MARK OF QUALITY FOR THE INSTALLATION, COMMISSIONING AND SERVICING OF DOMESTIC HEATING AND HOT WATER SYSTEMS

HOT WATER | HEATING | RENEWABLES

Dear Customer,

Thank you for choosing an ARISTON boiler.
We guarantee that your boiler 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.

WARRANTY

This appliance is in warranty from the date of installation. Proof of installation or purchase and annual servicing must be provided upon request. The installation must have been carried out by a Gas Safe Registered engineer.

Ariston is obliged under this warranty to repair or replace a faulty appliance under our terms and conditions.

Any repair or replacement will be at Ariston's discretion. This warranty will only apply where the fault arises from defects in the appliance, caused either by material or workmanship of the manufacturer.

This warranty does not cover malfunction or damage arising from incorrect installation, commissioning or maintenance procedures as advised in the Installation and Servicing manual, inefficient flue system, poor or incorrect electricity and wiring, incorrect gas supply or pressure, tampering by inexperienced persons and any other cause not directly related to manufacture.

Ariston Thermo Uk Ltd cannot accept responsibility for any cost arising from repair or maintenance carried out by any third party.

This warranty does not affect your statutory rights.

The appliance must be registered with Ariston within 30 days from date of installation.

The boiler must be serviced annually either by a local Gas Safe Registered engineer or managed by Ariston directly which can be arranged by calling **0333 240 8777.**

If the boiler is not serviced directly through Ariston then proof service must be sent in to **Ariston UK** (address on back cover of manual)."

Registration is online at **www.ariston.com/uk**

The Benchmark commissioning checklist, which can be found at the back of the Installation instructions, must be completed in full by the installer.



Thank you for choosing an **Ariston** boiler compatible with **Ariston Net**, the service designed and manufactured by **Ariston**, to provide a whole new experience in using a domestic heating system.
Ariston Net allows you to start, stop and check the temperature of domestic heating and water anytime, anywhere from a smartphone, tablet or PC. It allows you to constantly monitor energy consumption to ensure you save on your gas bill. It also notifies you in real time if there is a boiler failure. If a remote diagnostic service is activated, the service centre will be able to solve problems remotely where possible or arrange an appointment at your earliest convenience.

* The installation must have been carried out by a Gas Safe Registered engineer.
For more information call us on **0333 240 8777.**

If you smell gas or are worried about gas safety, you can call the

National Gas Emergency Service free on 0800 111 999

at any time, day or night.

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.

This appliance can be used by children aged from 8 years and above and person with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

The installation and first ignition of the boiler must be performed by qualified Gas Safe Registered engineer in compliance with Gas Safety (instillation & use) regulations and all other national regulations regarding installation, and in conformity with any requirements established by local authorities and public health organisations.
After the boiler has been installed, the installer must ensure that the end user receives the declaration of conformity and the operating manual, and should provide all necessary information as to how the boiler and the safety devices should be handled.

This appliance is designed to produce hot water for domestic use (combi version).
It should be connected to a heating system and a distribution network for domestic hot water, both of which 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 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 by switching the external bipolar switch to the "OFF" position and shutting off the gas valve.
When the work has been completed, ask a qualified technician to check the efficiency of the ducting and the devices.
If the boiler should be out of use for a prolonged period, it is recommended that the electrical power supply be disconnected and that the external gas cock be closed. If low temperatures are expected, the boiler and system pipe work should be drained in order to prevent frost damage.
Turn the boiler off and turn the external switch "OFF" to clean the exterior parts of the appliance.
Do not allow children or inexperienced persons to use the appliance without supervision.

CE labelling
The CE mark guarantees that the appliance conforms to the following directives:
- **2016/426/EU**
  relating to gas appliances
- **2014/30/EU**
  relating to electromagnetic compatibility
- **92/42/CEE**
  relating to energy efficiency
- **2014/35/EU**
  relating to electrical safety
- **2009/125/CE**
  Energy related Products
- **813/2013**
  Commission regulation (EU)

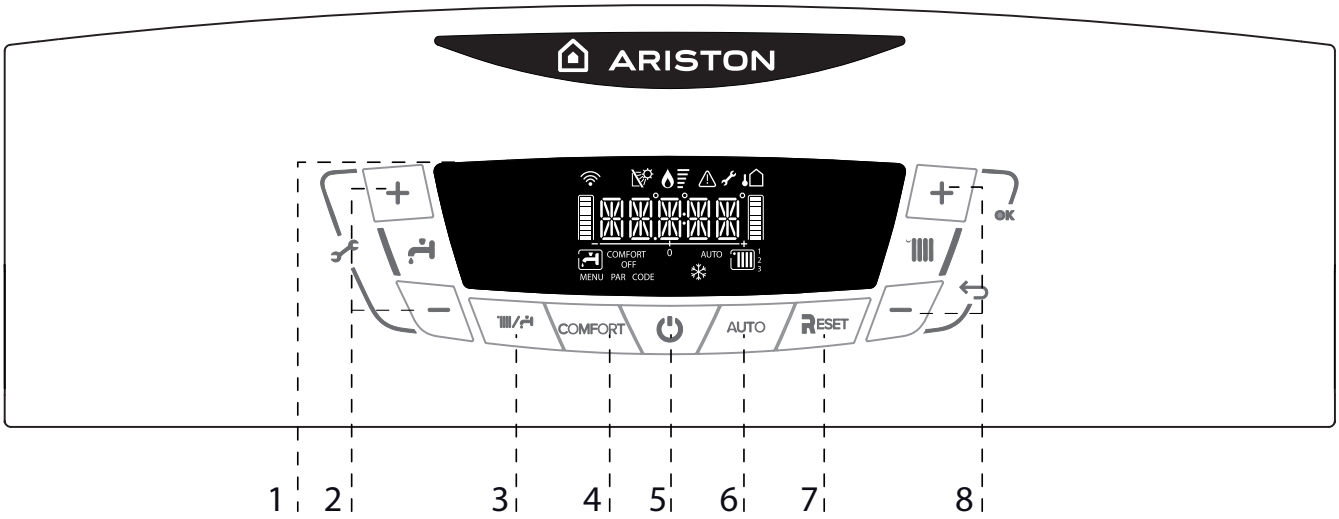
Ariston is a licensed member of the Benchmark Scheme which aims to improve the standards of installation and commissioning of domestic heating and hot water systems in the UK and to encourage regular servicing to optimise safety, efficiency and performance. Benchmark is managed and promoted by the Heating and Hotwater Industry Council.

For more information visit

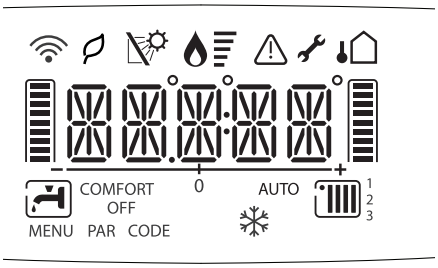
www.benchmark.org.uk.

The Benchmark commissioning checklist, which can be found at the back of the installation instructions, must be completed in full by the installer and be left with the boiler or be made available upon request by any attending Ariston representative.

CONTROL PANEL



Legend:
1. Display
2. Domestic Hot Water adjustment button +/- **(a)**
3. MODE button
   (Operation mode selection summer/winter)
4. COMFORT button
5. ON/OFF button
6. Auto button (To activate Thermoregulation)
7. RESET button
8 Heating temperature adjustment button +/- (**b**)



Legend:

	Digits indicating: - boiler status - temperature indication with bar level - error code signals (ERROR) - Request press RESET button (boiler block) - menu settings
	Technical assistance request
	Flame detected with indication of power used
	Heating operation set
	Heating operation active
	Hot water operation set
	Hot water operation active
COMFORT	Hot Water Comfort activated
OFF	Boiler off with antifreeze function active
	Anti-frost Function Active

AUTO	AUTO function activated
	High efficiency operation (low C.H. flow temperature)
	Solar temperature probe connected - optional
	Error signals The display show the code
	External temperature displayed (with external sensor optional)
	Wi-Fi active (Kit Optional)

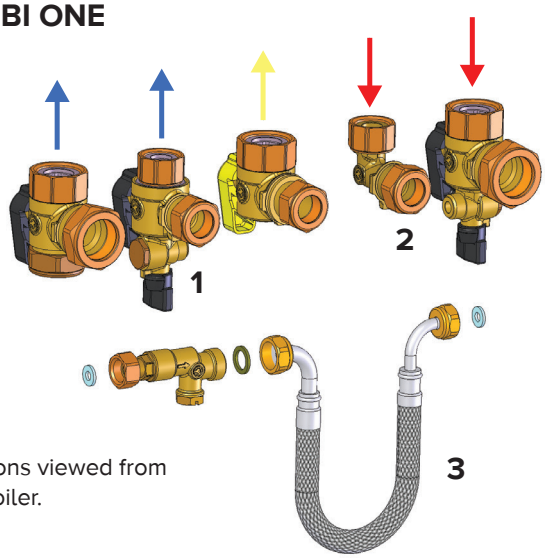
Initial operating procedures

Check the water pressure on the pressure gauge and make sure that the figure is between 0.6 and1.5 bar when the system is cold. If the pressure is just under the minimum value the display will request a filling procedure - *see note below*.

FILLING PROCEDURE
RE-ESTABLISH THE CORRECT PRESSURE USING THE FILLING LOOP (POSITIONED UNDERNEATH THE BOILER). WHEN THE PRESSURE GAUGE INDICATES A PRESSURE OF 1 BAR, CLOSE THE FILLING VALVE.
DURING FILLING, THE BOILER ACTIVATES AUTOMATICALLY THE DEAERATION CYCLE, THE DISPLAY SHOWS "PURGE".
AT THE END OF THE FUNCTION (7 MINUTES) THE DISPLAY RETURNS TO NORMAL VIEW.

Re-establish the correct pressure by filling loop.
If the pressure drops very frequently, there may be a water leak at some point in the system. If this is the case a plumber should be contacted.

E-COMBI ONE



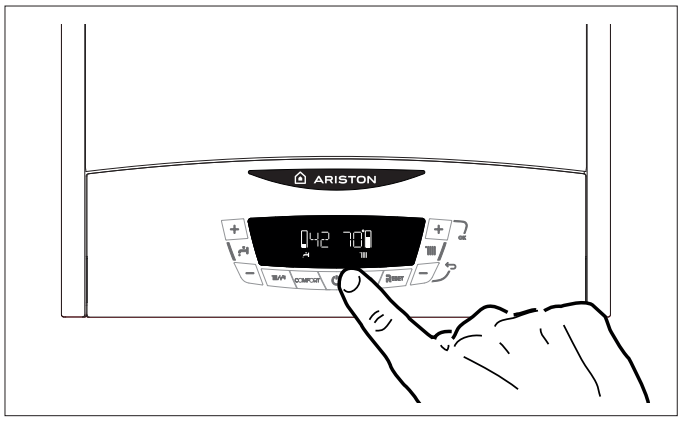
Note.
Connections viewed from behind boiler.

1. To repressurise the system ensure flexible hose 3 is connected
2. Slowly open taps 1 & 2 (see diagrams above)
3. Water will be heard entering the system
4. When the pressure gauge reads 1.5 bar close taps 1 & 2

ATTENTION!
DEAERATION CYCLE
THE DEAERATION CYCLE IS AUTOMATICALLY ACTIVATED WHEN THE BOILER IS POWERED ON FOR THE FIRST TIME OR AFTER THE ERROR 108 "FILL" - INSUFFICIENT WATER PRESSURE.

Ignition procedure

Press the ON/OFF button ⏻ on the control panel to switch on the boiler



The display shows :
- the operating mode:
- the set temperature in central heating mode
- the set temperature of the hot water in domestic hot water

Operating mode selection

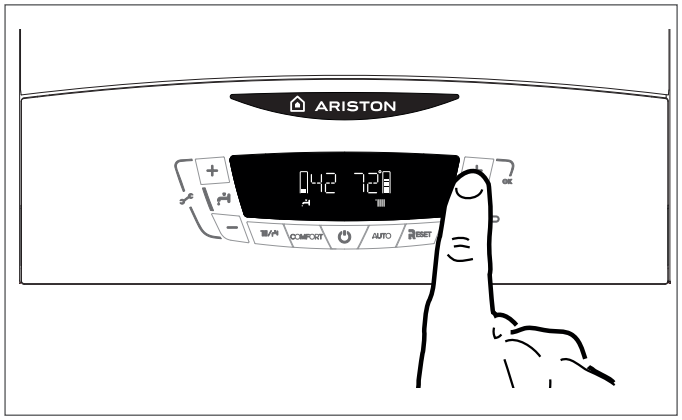
Use the MODE button **3** to select the desired operating mode.

Operating mode	Display
heating + hot water production for domestic use - WINTER	
hot water production for domestic use only - SUMMER	

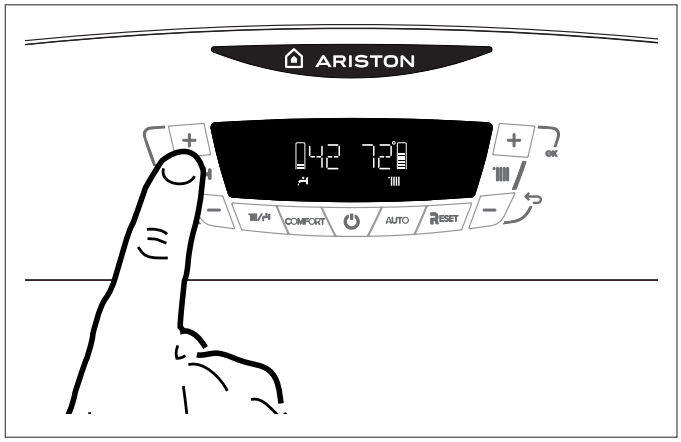
The ignition of the burner is indicated on the display by the symbol the dashes underneath indicate the power utilised.

Adjusting the heating

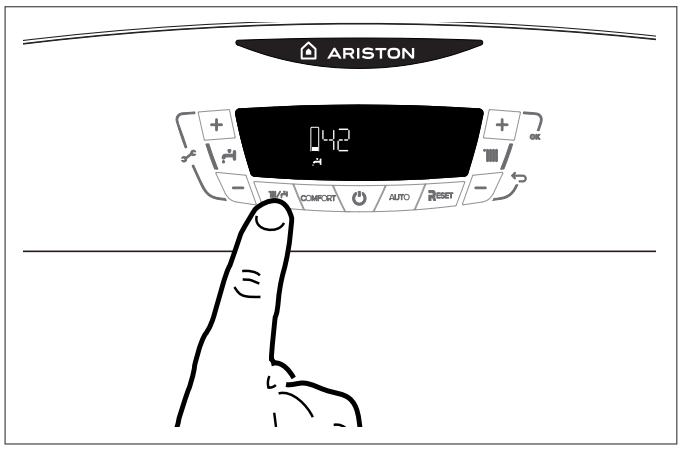
It is possible to set the temperature of the heating water by pressing the buttons **8**.
The temperature that may be obtained.which varies from 20°C to 45°C (low temperature) and 35°C to 82°C (high temperature).



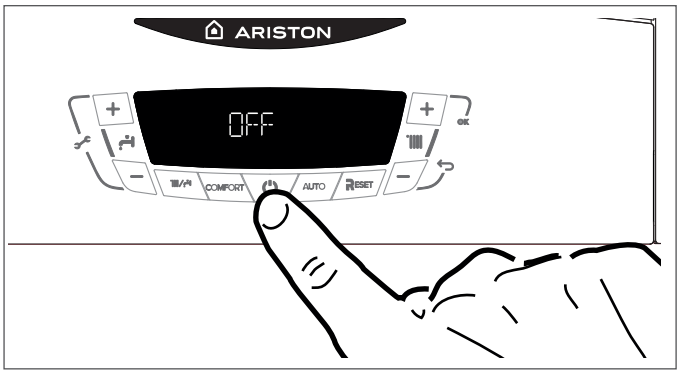
Domestic hot water temperature adjustement
It is possible to set the temperature of the domestic hot water by pressing the buttons **2** a temperature may be obtained which varies from 36°C to 60°C.The value set previously will flash on the display.



Switching off the heating
To switch off the heating, press the MODE button **3**; the heating operation symbol will disappear from the display. The Mode button can be used to keep the domestic hot water production process active or to place it in standby (modes deactivated).
In the figure below the boiler remains active only for the production of domestic hot water, indicating the set temperature.



Switching off the boiler
To switch off the boiler press the ON/OFF button, the display will switch off.
The Anti-Frost Function remains active.

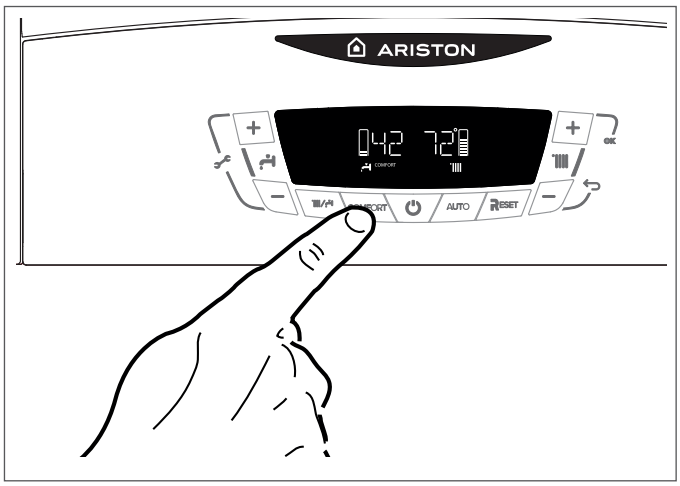


ATTENTION!!
Switch off the boiler completely by switching the external electrical switch to the OFF position. Shut off the gas valve.

COMFORT function

The boiler allows the 'comfort' level for the output of domestic hot water to be increased through the "COMFORT" function. This function keeps the secondary exchanger (or an external tank) warm during the periods in which the boiler is inactive, thereby bringing the initial thermal condition of the water drawn to a higher temperature.

This function may be enabled by pressing the COMFORT button **4**. When the function is enabled the text COMFORT appears on the display..



Auto button - Temperature adjustment activation

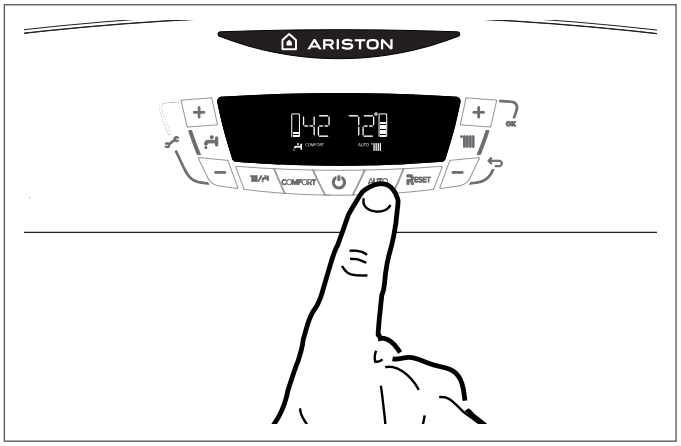
The AUTO function enables boiler operation to be adapted to environmental conditions and to the type of system it is installed on.

Comfortable temperature is reached inside the room in the quickest way possible, without wasting money, energy or efficiency, while substantially reducing the amount of wear experienced by the components.

Your installer will advise you on the devices connectable to the boiler and will program it according to the system.

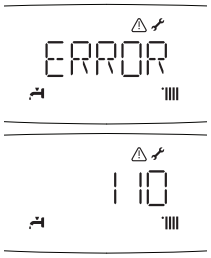
In normal boilers the water temperature inside the heating elements is usually set to a high value (70-80°C), thereby ensuring effective heating during the few really cold winter days. It then becomes excessive on less cold days (of which there are many) more typical of the autumn and winter seasons. This leads to excessive room heating after the thermostat has been switched off, resulting in energy waste and uncomfortable conditions inside the room.

The AUTO function "takes control" of the boiler and selects the best operating regime based on environmental conditions, external devices connected to the boiler and the performance required. It constantly decides at which power level to operate based on the environmental conditions and the room temperature required.

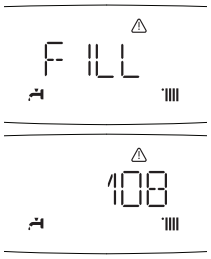


Appliance shut-off conditions
The boiler is protected from malfunctions by means of internal checks performed by the electronic P.C.B., which stops the boiler from operating if necessary. In the event of the boiler being shut off in this manner, a code appears on the control panel display which refers to the type of shut-off and the reason behind it.
Two types of shut-off may occur:

Safety shut-off
This type of error is "volatile", which means that the boiler starts up again automatically as soon as the problem which caused the shut-off is removed; ERROR and the error code (e.g. ERROR / 110) flash on the display and the ⚠ symbol appears.
In fact, soon as the cause of the shut-off disappears, the boiler starts up again and continues to operate normally.
If the boiler still indicates a safety shut-off, switch it off. Make sure the external electric switch is in the OFF position, shut off the gas valve and contact a qualified technician.



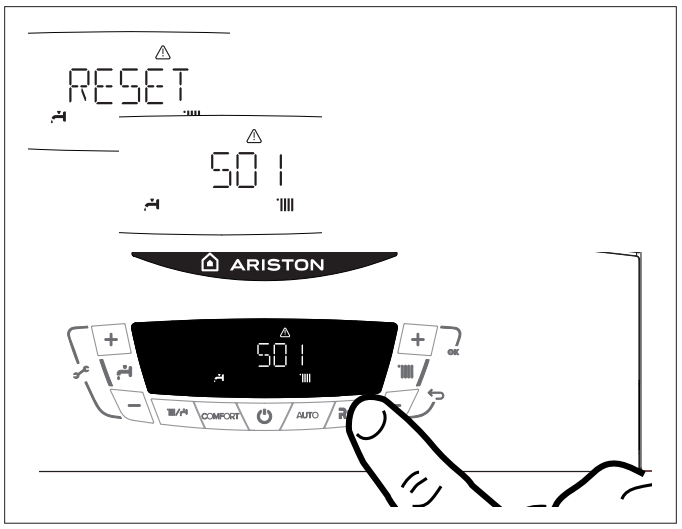
Safety shut-off due to insufficient water pressure
If the water pressure inside the heating circuit is insufficient, the boiler will perform a safety shut-off.
Code 108 (FILL / 108) will appear on the display.
The system may be restarted, re-balancing the water pressure, by using the filling procedure - **see note 1**.
If the re-balancing request is performed on a frequent basis, switch the boiler off, bring the external electric switch to the OFF position, shut off the gas valve and contact a qualified technician to check for any leaks of water.



NOTE 1 - FILLING PROCEDURE
RE-ESTABLISH THE CORRECT PRESSURE USING THE FILLING LOOP (POSITIONED UNDERNEATH THE BOILER). WHEN THE PRESSURE GAUGE INDICATES A PRESSURE OF 1 BAR, CLOSE THE FILLING VALVE.
DURING FILLING, THE BOILER ACTIVATES AUTOMATICALLY THE DEAERATION CYCLE, THE DISPLAY SHOWS "PURGE".
AT THE END OF THE FUNCTION (7 MINUTES) THE DISPLAY RETURNS TO NORMAL VIEW.

Operation shutdown
This type of error is "non-volatile", which means that it is not removed automatically.
On the display flash RESET and the error code , e.g. Err/501 and appears the symbol ⚠.
In this case the boiler does not restart automatically, but it may be reset by pressing the RESET button.
If the problem manifests itself again after several attempts to reset the appliance, contact a qualified technician.

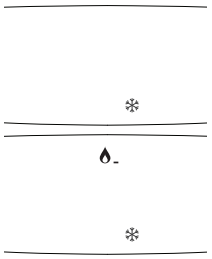
Important
If this shutdown occurs frequently, contact an authorised service centre for assistance. For safety reasons, the boiler will allow a maximum of 5 reset operations to take place in 15 minutes (individual presses of the RESET button).
If the shutdown is occasional or an isolated event, this is not Necessarily a problem.



Operation shutdown error table

Display	Description
1 01	Overheating
1 03	Insufficient circulation
1 04	
1 05	
1 06	
1 07	
1 08	Insufficient water pressure - see Note 1
3 05	P.C.B. error
3 06	P.C.B. error
3 07	P.C.B. error
5 01	No flame detection

Anti-frost Device.
The anti-frost function acts on the central heating flow temperature probe, independently from other settings, when the electrical supply is turned on. If the primary circuit temperature falls below 8°C the pump will run for 2 minutes.
After the two minutes of circulation (fixed) the boiler will check the following:
a - if the central heating flow temperature is > 8°C, the pump stops;
b - if the central heating flow temperature is between 4 and 8°C, the pump will run for another two minutes;
c - if the central heating flow temperature is < 4°C, the burner will fire (heating position) at minimum power until the temperature reaches 33°C, the burner will go off and the pump will continue to run for two minutes.
The activation of the Anti-Frost feature is symbolised by ❄.
The anti-frost device activates only when (with the boiler operating correctly):
- the system pressure is correct;
- the boiler is electrically powered;
- there is a supply of gas.



Disposal and recycling boiler.
Our products are designed and manufactured for most of the components of recyclable materials.

The boiler and its accessories have to be adequately disposed and the various materials differentiated, where possible.
The packaging used for the transport of the boiler must be disposal by the installer / dealer.

ATTENTION!!
Recycling and disposal of the boiler and the accessories must be made as required by regulations.

This product conforms to Directive WEEE 2012/19/EU.



The symbol of the crossed waste paper basket on the appliance indicates that at the end of its working life the product should be disposed of separately from normal domestic household rubbish, it must be disposed of at a waste disposal centre with dedicated facilities for electric and electronic appliances or returned to the retailer when a new replacement product is purchased.
The user is responsible for the disposal of the product at the end of its life at an appropriate waste disposal centre.
The waste disposal centre (which using special treatment and recycling processes effectively dismantles and disposes of the appliance) helps to protect the environment by recycling the material from which the product is made.
For further information about waste disposal systems visit your local waste disposal centre or the retailer from which the product was purchased.

Change of gas type
Our boilers are designed to function either with Natural Gas (Methane, G20) or LPG (Propane, G31).
If you need to change from one gas to another then you should speak to a Gas Safe Registered engineer or please call **Ariston** on **0333 240 8777**.

Maintenance
Schedule an annual service for the boiler with a Gas Safe Registered engineer.
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 warranty of the appliance.

ITALIAN DESIGN

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Ariston Thermo S.p.A.

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60044 Fabriano (AN)
ITALY

ariston.com

Imported by

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Basildon
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