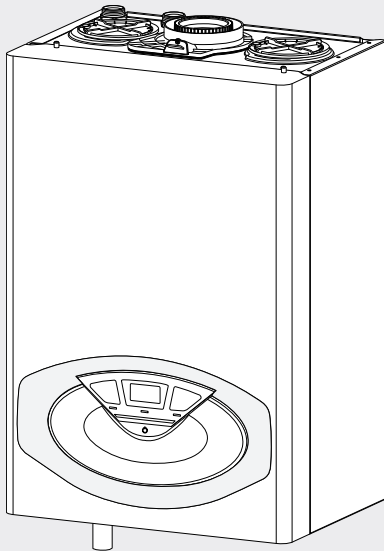


User Manual

CLAS HE R



Gas fired condensing wall hung boiler

G.C.N : 41-116 - 30 (12 kW)

G.C.N : 41-116 - 31 (18 kW)

G.C.N : 41-116 - 32 (24 kW)

CLAS HE R 12

CLAS HE R 18

CLAS HE R 24

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 the correct use of the appliance.

Remember to keep this manual in a safe place for future reference i.e. by the boiler.

Your local MTS Servicing Centre is at your complete disposal for all requirements.

The installation and first ignition of the boiler 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.

All CORGI registered installers carry a CORGI ID card, and have a registration number. Both should be recorded in the Benchmark Log Book. You can check your installer is CORGI registered by calling CORGI directly on:- 0800 915 0485

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 central heating for domestic use only.

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:

- **90/396/CEE**
relating to gas appliances
- **2004/108/CEE**
relating to electromagnetic compatibility
- **92/42/CEE**
relating to energy efficiency
- **2006/95/CEE**
relating to electrical safety

The Benchmark Scheme

MTS 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.centralheating.co.uk

Please ensure that the installer has fully completed the Benchmark Checklist on the inside back pages of the installation instructions supplied with the product and that you have signed it to say that you have received a full and clear explanation of its operation. The installer is legally required to complete a commissioning checklist as a means of complying with the appropriate Building Regulations (England and Wales).

All installations must be notified to Local Area Building Control either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will then be issued to the customer who should, on receipt, write the Notification Number on the Benchmark Checklist.

This product should be serviced regularly to optimise its safety, efficiency and performance. The service engineer should complete the relevant Service Record on the Benchmark Checklist after each service.

The Benchmark Checklist may be required in the event of any warranty work and as supporting documentation relating to home improvements in the optional documents section of the Home Information Pack.

GUARANTEE

The manufacturer's guarantee is for 2 years from the date of purchase. The guarantee is invalidated if the appliance is not installed in accordance with the recommendations made herein or in a manner not approved by the manufacturer. To assist us in providing you with an efficient after sales service, please return the guarantee registration card enclosed with the boiler without delay.

Ariston only obligation under the guarantee will be to repair or replace the faulty appliance at Ariston discretion. This will be carried out where the fault arises from defects within the appliance, caused either by material or workmanship of the manufacturer.

This guarantee does not protect malfunction or damage arising from incorrect installation, commissioning or maintenance procedures as laid out in the installation and servicing manual, inefficient flue system, poor or incorrect electricity, wrong gas supply or pressure, tampering by inexperienced persons and any other cause not directly due to manufacture.

MTS (GB) Limited cannot accept responsibility for any cost arising from repair or maintenance carried out by any third party.

Repair under the guarantee does not affect the expiry date of the guarantee. The guarantee on parts and appliances which are exchanged ends when the guarantee on the original appliance expires.

This guarantee does not affect your statutory rights.

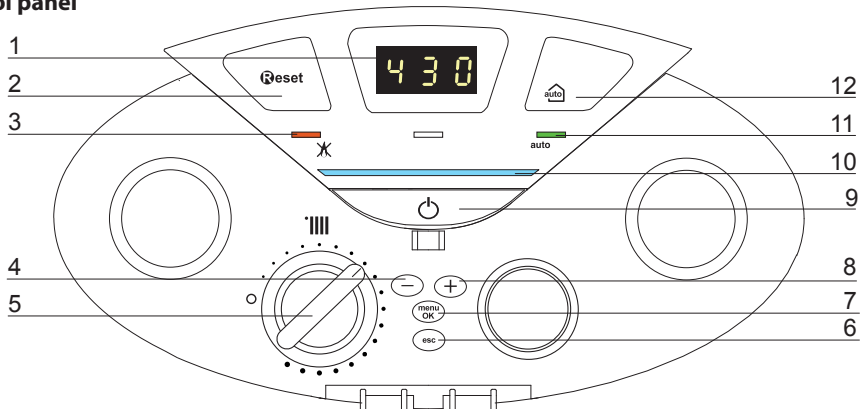
You must have your boiler serviced at the end of the first year to validate your guarantee for the second year and ensure the Benchmark Service Interval Record is completed.

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.
- ⚠ Electrocutation 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 .
- ⚠⚠ Electrocutation 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.
- ⚠ Electrocutation 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 (step ladders shutting accidentally).
Do not attempt to clean the appliance without first switching it off and turning the external switch to the OFF position.
- ⚠ Electrocutation 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.

Control panel



Legend :

- | | |
|--------------------------------|--|
| 1. Display | 7. Menu / OK button (Programming key) |
| 2. RESET button | 8. Button + |
| 3. Red indicator lockout light | 9. ON/OFF button / Green indicator ON/OFF |
| 4. Button - | 10. Blue indicator burner ON |
| 5. Temperature regulation knob | 11. Green indicator AUTO function |
| 6. Esc button | 12. AUTO button (To activate Thermoregulation) |

Ignition procedure

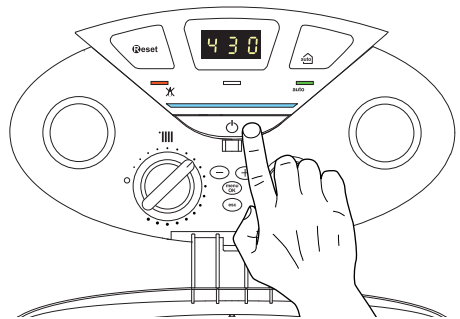
Press the ON/OFF button on the control panel to switch on the boiler. The display shows:

The first figure indicates the operating mode:

- 0 - Stand -by,
- C - Heating request
- c - Heating post-circulation
- F - Anti-freeze protection enabled

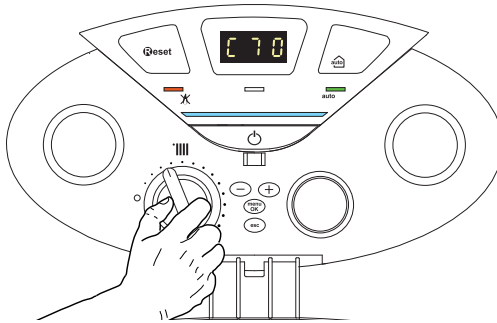
The second and third figures indicate:

- the flow temperature when no heating requests have been made
- the flow temperature in central heating mode
- the flow temperature in anti-freeze mode.



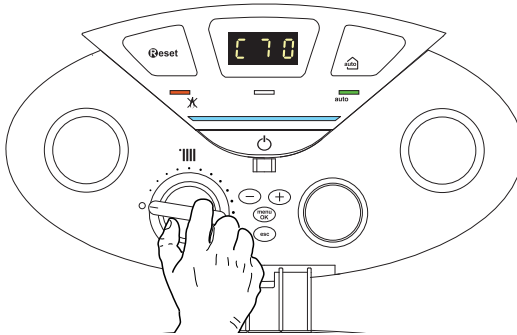
Adjusting the heating

It is possible to set the temperature of the heating water by adjusting the knob **5**. By placing the indicator somewhere between min. and max. A temperature may be obtained which varies from approximately 40°C to about 82°C.



Switching off the heating

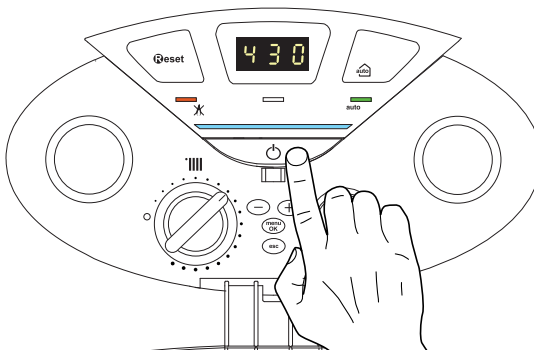
To switch off the heating mode turn the knob **5** to the position **0**. Or set the timer to the off position



Stand by

To switch off the boiler press the ON/OFF button **9**.

Switch off the boiler completely by switching the external electrical switch to the OFF position.



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. The display will flash "Err" and the error code.



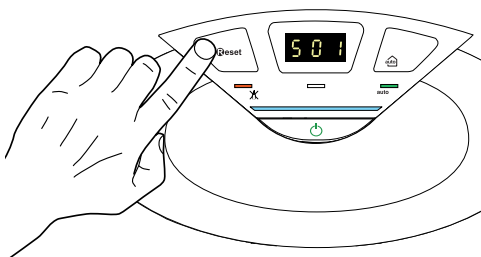
As soon as the cause of the shut-off disappears, the boiler starts up again and continues to operate normally.

While the boiler is shut off for safety reasons, it is possible to attempt to restore normal operation by switching the appliance off and on again using the ON/OFF button on the control panel. If the boiler still indicates a safety shut-off, switch it off. Make sure the external electric switch is in the OFF position, close the gas tap and contact a qualified technician.


Operation shutdown

This type of error is "non volatile", which means that it is not removed automatically. The display will flash ERR and the error code and the red led lights up "3" .

In this case the boiler does not restart automatically, but it may be reset by pressing the **Reset** button **2**. 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).

Operation shutdown error table

Display	Description
1 01	Overheating
5 01	No flame detection
1 03	Insufficient circulation
1 04	
1 05	
1 06	
1 07	
3 05	P.C.B error
3 06	P.C.B error
3 07	P.C.B error

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:

- if the flow temperature is > 8°C, the pump stops;
- if the flow temperature is between 4 and 8°C, the pump will run for another two minutes;
- if the flow temperature is < 4°C, the burner will fire 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 anti-frost device activates only when (with the boiler operating correctly):

- the boiler is electrically powered,
- there is a supply of gas.

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 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.

Change of gas type

Our boilers 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 boiler with a competent person.

Correct maintenance generally 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 manufacturer's guarantee.



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