

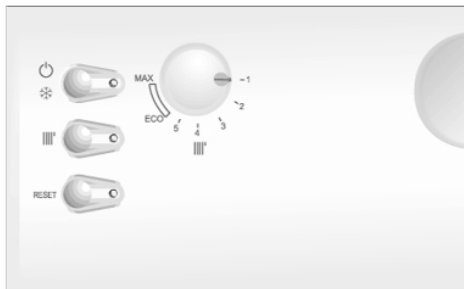
Users Manual



*The code of practice for the installation,
commissioning & servicing of central heating systems*

 **ARISTON**

micro **SYSTEM**



Dear Customer,

*Thank you for choosing an ARISTON boiler.
We guarantee that your boiler is a reliable
and technically sound product.*

*This User's Manual provides detailed
instructions and recommendations for proper
installation, use and maintenance.*

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

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



The guarantee on this appliance is valid for 12 months from the first day of installation.

Repairs to the electric, hydraulic or gas circuits may be carried out only by your local authorised MTS Servicing Centre.

Every attempt has been made to avoid errors of any kind in this User's Manual, the Management invites customers to inform of any inaccuracies which they may find. This will help to improve our service

TABLE OF CONTENTS

1. GENERAL INFORMATION	page 4
Technical Information	page 5
Control Panel	page 6
2. OPERATING INSTRUCTIONS	page 7
3. USEFUL INFORMATION AND TROUBLESHOOTING	page 12
4. MAINTENANCE	page 15
5. CHANGE OF GAS TYPE	page 15
6. TIME CLOCK	page 15

IMPORTANT!

Please read this manual carefully.

For additional information, please consult the "*Installation and Servicing Instructions.*"

Make sure to keep the manuals provided with the appliance so that they can be used by the end-user, installer or our authorised engineer.

1. GENERAL INFORMATION

MTS (GB) Limited support the **benchmark** initiative. Your installer will give you, and show you how to use, a logbook which will give you important information about your boiler, and heating system. Please have this logbook to hand whenever you contact a service engineer or us.

All CORGI Registered Installers carry a CORGI ID card, and have a registration number. Both should be recorded in your boiler Logbook. You can check your installer is CORGI registered by calling CORGI direct on :- (01256) 372300.

This is an appliance for the production of central heating. This appliance **must be used only** for the purpose for which it is designed. The manufacturer declines all liability for damage caused by improper or negligent use.

Do not allow children or inexperienced persons to use the appliance without supervision.

If you smell gas in the room, **do not turn on** light switches, use the telephone or any other object which might cause sparks.

Open doors and windows immediately to ventilate the room.

Shut the gas mains tap (on the gas meter) or the valve of the gas cylinder and call your Gas Supplier immediately.

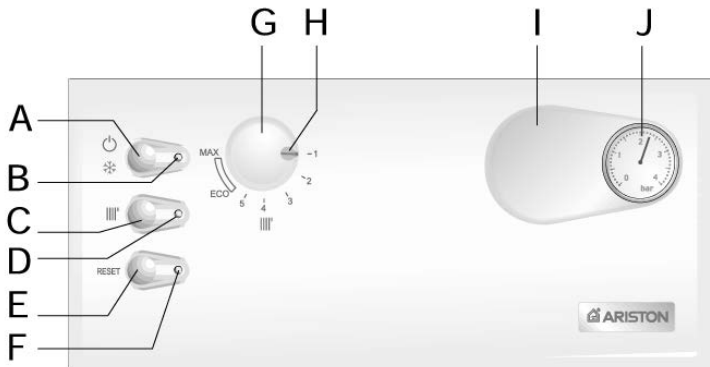
If you are going away for a long period of time, remember to shut the mains gas tap or the gas cylinder valve.

Before any intervention within the boiler it is first necessary to cut off the electrical power supply by turning the external switch to "OFF".

TECHNICAL INFORMATION

GENERAL DATA		10 kW	15 kW	21 kW	28 kW
Heating input max-min	kW	11.6	15.4	22.7-10.0	29.8-12.0
Heating output max-min	kW	10.5	14.1	21.0-8.7	27.8-10.5
Efficiency at Maximum Thermal Capacity (see Installation Instructions)	%	81.3	82.4	83.7	84.2
CENTRAL HEATING					
Operating Temperature max-min	°C	82-42	82-42	82-42	82-42
Maximum-Minimum Heating Pressure	bar	3-0.7	3-0.7	3-0.7	3-0.7
Built-in expansion vessel - Total capacity	litres	6	6	6	6
ELECTRICAL DATA					
Electrical Supply/Frequency	V/Hz	230/50	230/50	230/50	230/50
Power Consumption	W	105	115	105	155
Protection of Electrical System	IP	X4D	X4D	X4D	X4D
CATEGORY					
Nominal Pressure/Methane Gas (G20)	mbar	20	20	20	20
Nominal Pressure/Liquid Gas (G30-G31)	mbar	30-37	30-37	30-37	30-37

CONTROL PANEL



micro SYSTEM 10 RFFI / 15 RFFI
21 RFFI / 28 RFFI

FR011A

LEGEND:

- A - On/Off button
- B - On/Off L.E.D. green (frost protection active)
- C - Central Heating button
- D - Central Heating active L.E.D. green
- E - Ignition failure (lockout) and/or overheat reset button
- F - Ignition failure (lockout) and/or overheat L.E.D. red
- G - Central heating temperature adjustment
- H - Energy Saving System (ESS)
- I - Knock-out for time clock
- J - Heating system pressure gauge

2. OPERATING INSTRUCTIONS

CAUTION

Installation, start-up, adjustments and maintenance must be performed by a competent person only, in accordance with the current Gas Safety (Installation & Use) Regulations and the instructions provided. Improper installation may cause damage or injury to individuals, animals and personal property, for which the manufacturer will not be held liable. To ensure efficient and safe operation it is recommended that the boiler is serviced annually by a competent person. If it is known or suspected that a fault exists on the appliance, it must not be used until the fault has been corrected by a competent person.

HELPFUL SUGGESTIONS

To get the most out of your boiler, we have provided you with some useful advice on proper use and maintenance:

- Periodically check the system pressure using the pressure gauge "J", make sure that the pressure is between 1.0 and 1.5 bar (the blue part on the gauge) when the system is off and cool. Consult your installer for checking and refilling the system if the pressure value is under 1.0 bar.



- The outer panels of the units case must only be cleaned with a damp cloth. Do not use abrasive cleaners. The control panel can be wiped with either a damp or dry cloth. Spray polishes must not be used on the control panel surface or knobs. Care must be taken in preventing any liquid entering the appliance.

PRACTICAL TIPS

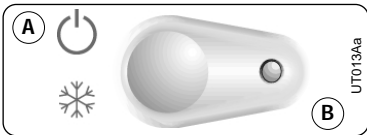
- If the water is very hard, it is recommended that a scale reducer be added to the system so as to reduce the formation of limescale in the boiler heat exchanger. This will ensure that the efficiency of the unit remains the same over time, reducing gas consumption

and maintenance costs.

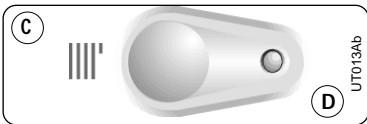
- If the boiler should be out of use for a prolonged period, it is recommended that the electrical power supply be disconnected and that the external gas cock be closed. If low temperatures are expected, the boiler and system pipe work should be drained in order to prevent frost damage.
- To improve comfort and take full advantage of the heat produced by the boiler, it is recommended that an external (room) thermostat be installed.
- It is good practice to clean and service the appliance and central heating system every year.
Call an Authorised Service Centre.

Ignition procedure

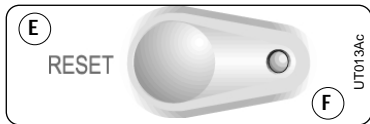
Push the button "A" the green L.E.D. "B" will illuminate indicating that the boiler is supplied with electricity.



Push the button "C" the green L.E.D. "D" will illuminate indicating that the boiler is operating for central heating production.

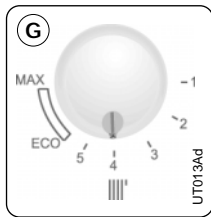


The centralised electronic control unit will ignite the burner, without any manual intervention but in response to the request for heating. If, after approximately 10 seconds, the burner has not ignited, the boiler safety devices will shut off the gas and the red L.E.D. "F" illuminates. To reset the ignition system, the reset button "E" must be pressed and released. Should the boiler fail to ignite a second time, check that the external gas cock is open. If the problem persists, contact an Authorised Service Centre.



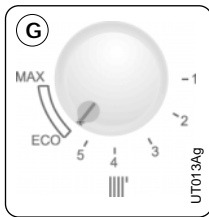
Adjusting the heating

It is possible to set the temperature of the heating system by adjusting the knob "G" between 1 and 5 until the stop on the "ECO" position. This will vary temperature from approximately 40°C to about 65°C. To obtain a higher temperature it is necessary to turn the Energy Saving System (ESS) screw "H" clockwise with a small coin. The knob is now free to turn to the MAX position, which represents a temperature of about 80°C.



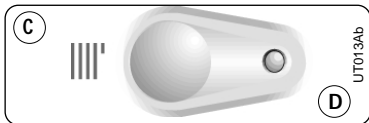
External (room) thermostat control

If an external (room) thermostat is installed, it is recommended that the temperature of the heating system be set (by means of the knob "G") at the "ECO" position. This will allow the regulation of the external temperature to operate effectively and obtain energy efficiency and good performance from the boiler.



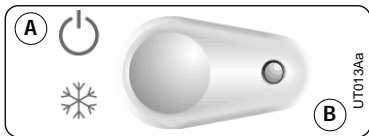
Turning off central heating

To turn off the central heating, push the "C" button and the green L.E.D. "D" will go off. ***The boiler will remain electrically supplied and frost protection will be active for temperatures below 6°C.***



Turning off the boiler

To turn the boiler off, push the button "A" the respective green L.E.D. "B" will go off. Close the gas cock located under the boiler and turn the electricity supply switch (located outside the boiler) to the OFF position.



3. USEFUL INFORMATION AND TROUBLESHOOTING

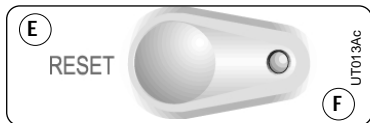
Boiler shutdown situations

The boiler is equipped with safety devices that intervene in certain situations and shut it off. Most of these situations are communicated by means of the red L.E.D. "F" and at times the user may be able to remedy them.

Shutdown due to ignition failure

In the event that the automatic ignition of the burner has failed, the red L.E.D. "F" will illuminate. In order to reset the ignition, the button "E" must be pressed and released.

Should the boiler fail to ignite a second time, check that the external gas cock is open. If the problem persists, contact an Authorised Service Centre.



Shutdown due to overheating

In the event that the safety limit is exceeded for the temperature of the water in the boiler's primary exchanger, the thermostat shuts off the boiler and the red L.E.D. "F" illuminates.

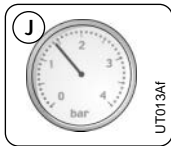
To remedy this situation, wait a few minutes

to allow the exchanger to cool down, then press and release the reset button "E".

If this situation occurs frequently, contact an Authorised Service Centre.

Shutdown due to insufficient system pressure

In the event of insufficient water pressure in the heating system, a safety device will shutdown the boiler. Check the system pressure on the pressure gauge "J" and if it is less than 0.4 bar refill the system to 1.5 bar (consult your installer for checking and refilling the system). Once the system pressure is at



the correct level the boiler will ignite automatically. If there are frequent drops in pressure within the system, have a plumber check the heating system for possible water leaks.

Temporary shutdown due to defective discharge of exhaust fumes

The boiler is fitted with safety devices, which in the event of a defective discharge of exhaust fumes, automatically interrupts the gas supply, thereby shutting off the boiler.

The shut-off of the boiler is temporary for a period of about 15 minutes. Once this time period has passed and the

discharge state of exhaust fumes has returned to normal, the boiler automatically turns back on.

Important!

If this situation occurs frequently, contact an Authorised Service Centre. so that they may check that the exhaust fumes are being expelled correctly and that the area is ventilated properly.

Frost protection

The boiler is fitted with a thermostat which, in the event that the water temperature goes below 6°C, the burner turns on at minimum power until the water in the boiler has reached a temperature of about 20°C. This device is only activated when the boiler is operating perfectly and:

- the system pressure is sufficient;
- the boiler is powered electrically;
- gas is being distributed.

4. MAINTENANCE

Schedule an annual maintenance check-up for the boiler with a competent person. Correct maintenance always results in savings in the cost of running the system.

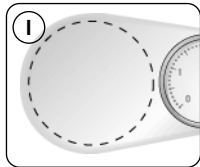
5. CHANGE OF GAS TYPE

Our boilers are designed to function either with Natural Gas (methane) or LPG gas. If you need to changeover from one gas to

the other, one of our Authorised Service Centres should be contacted.

6. TIME CLOCK

A time clock for central heating is available as an accessory kit and can be mounted via the knock-out "I". The installation of this should only be undertaken by a competent person and in accordance with the kit instructions.



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