

User' manual

E-COMBI

**Gas fired condensing wall hung
combination boilers**

G.C.N : 47-116 - 62 (24 kW)

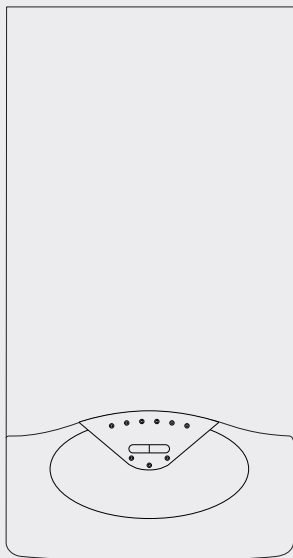
G.C.N : 47-116 - 63 (30 kW)

G.C.N : 47-116 - 64 (38 kW)

E-COMBI 24

E-COMBI 30

E-COMBI 38



Country of destination GB, IE

kiwa
approved
product



UK WATER SUPPLY
REGULATIONS



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

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 i.e. by the gas meter.

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.

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.

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

GUARANTEE

The appliance is guaranteed for 24 months from the date of purchase.

Aristons only obligation under the guarantee will be to repair or replace the faulty appliance at Aristons discretion. This will be carried out where the fault arises from within defects in 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.

Service 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.

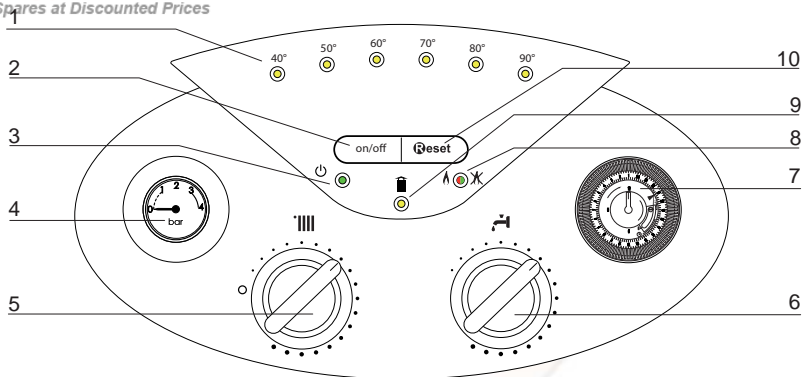
You must have your boiler serviced at the end of the first year to validate your guarantee for the second year.

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.



Legend :

1. Green indicator CH temperature and errors indicator
2. ON/OFF button
3. Green indicator ON/OFF
4. Pressure gauge
5. Winter / Summer switch - Heating temperature regulation knob
6. Domestic Hot Water adjustment knob
7. Time clock
8. Green indicator : flame ON / Red indicator : locking light
9. Yellow indicator : fumes exhaust malfunction
10. RESET button

Initial operating procedures

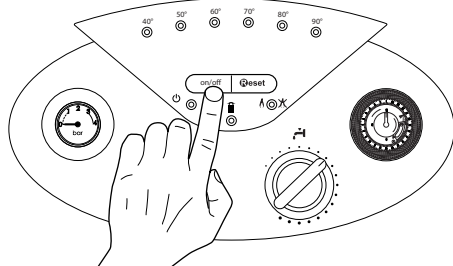
If the boiler is installed inside the apartment, make sure that all provisions relating to the air inlet and room ventilation (in compliance with current legislation) are respected.

Check the water pressure on the pressure gauge regularly and make sure that the figure is between 0.6 and 1.5 bar when the system is cold. If the pressure is just under the minimum value, 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

Ignition procedure

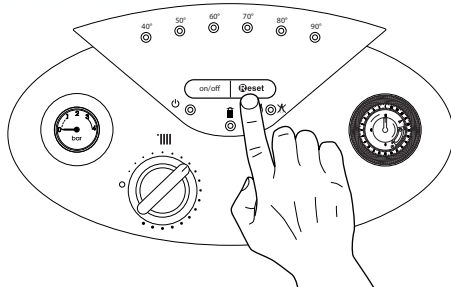
Press the ON/OFF button on the control panel to switch on the boiler.




The green led 3 will illuminate indicating that the boiler is ready to operate.

The electronic control unit will ignite the burner, without any manual intervention but in response to the request for Domestic Hot Water or heating. If, after approximately 10 seconds, the burner has not ignited, the boilersafety devices will shut off the gas and the red Led 8 illuminates. To reset the ignition system, the Reset button must be pressed and released.

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



Winter or summer operating modes

In the "winter" operating mode, the boiler will produce both Central Heating and Domestic Hot Water. In the "summer" operating mode, the boiler will produce only Domestic Hot Water. Using the knob on the control panel, the user can select "winter" or "summer" operating mode. Keeping the knob **5** at the  position selects the "summer" operating mode. "Winter" operating mode may be selected by positioning the knob **5** between the min. and max. settings.

Adjusting the heating


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

The water temperature in the primary circuit may be checked by means of the green leds **1**.

Domestic hot water temperature adjustment

It is possible to set the temperature of the domestic hot water by adjusting the knob **6** a temperature may be obtained which varies from about 36°C to about 60°C.

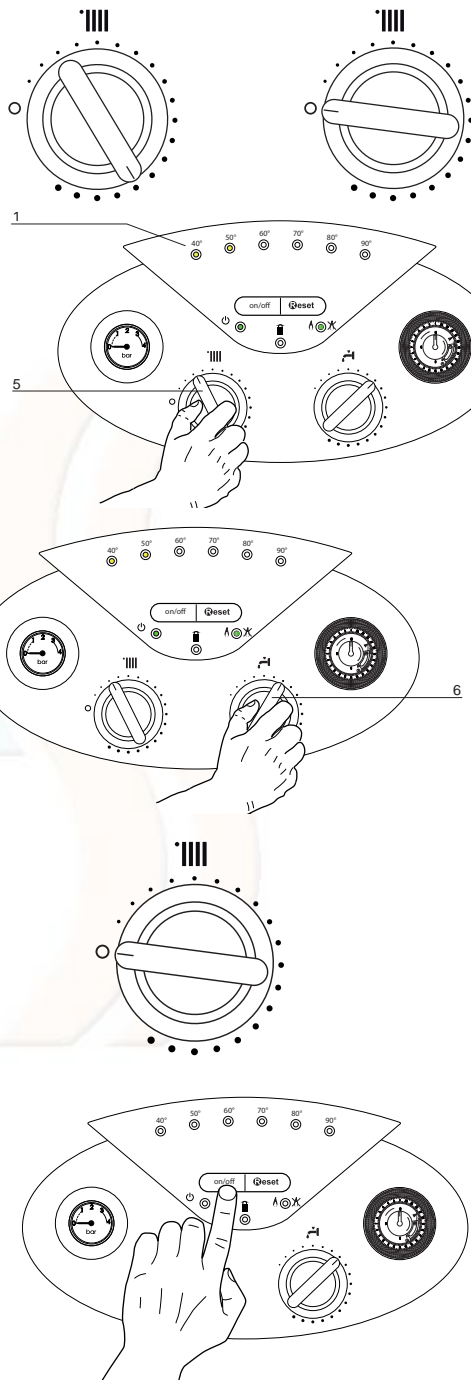
Switching off the heating

To switch off the heating mode turn the button **5** in the position . The boiler switches in sanitary mode only.

Stand by

To switch off the boiler press the ON/OFF **2**. The respective green led **3** will go off

Switch off the boiler completely by switching the external electrical switch to the OFF position;
 Close the gas tap.



The boiler is protected from malfunctioning by means of internal checks performed by the electronic microprocessor P.C.B., which stops the boiler from operating if necessary.

In the event of the boiler being shut off in this manner, the leds code show the type of shut-off and the reason behind it.

There are two types of shut-off:

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 yellow led **9** flash and the C.H. Temperature leds **1** indicate the error code. (see table)

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.

Shutdown due to insufficient water circulation

If the green leds **1** flash and the boiler is off, one possible cause for this state is an insufficient pressure of water in the system - green leds 40-50 blink. Check the water pressure on the pressure gauge **4** and make sure that is between 0.6 and 1.5 bar when the system is cold. If the pressure is just under the minimum refill the system by open the valve under the boiler.

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.

Operation shutdown

This type of error is "non-volatile", which means that it is not removed automatically (the red led **8** will illuminate and the C.H. Temperature led **1** will indicate the error code). 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 button). If the shutdown is occasional or an isolated event, this is not a problem.

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, there by shutting off the boiler.

The shut-off of the boiler is temporary and is indicated by the illumination of the yellow led **9** for a period of about 12 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.

Anti-frost Device.

The anti-frost function acts on the central heating flow temperature probe, independently from other regulations, when the electrical supply is turned on.

If the primary circuit temperature is between 3°C and 8°C the pump will run (with the diverter valve switching between central heating and hot water every 1 minute) until the temperature reaches > 9°C.

If the flow temperature remains between 3°C and 8°C the pump will continue to run for a maximum of 20 minutes unless a temperature above > 9°C is detected in the central heating flow, after this the burner will fire (heating position) until a temperature of > 30°C is detected.



If the central heating flow temperature is < 3°C, the burner will fire (heating position) at minimum power until the temperature reaches > 30°C, the burner will go out.

If lockout is caused by overheat the burner will not fire but the pump will continue to run (heating position).

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.

Table summarising error codes

Green Leds Temperature indicator								Reset	Description	Note ○ = flashing light ● = lit
40	50	60	70	80	90	yellow	red			
					●		●	X	Overheat	
●	●						●	X	Insufficient circulation	
	○	○				○			Insufficient water (request filling)	
		○	○			○			C.H. Flow temp. probe circuit open / short circuit	
			○	○		○			C.H. Return temp. probe circuit open / short circuit	
○		○				○			External sensor circuit open / short circuit	
○			○			○			Floor Thermostat contact open	
		●	●				●	X	Heating delivery probe problem	
○	○					○			Insufficient circulation	
			○			○			EEPROM error	
				○		○			Communication error	
○	○	○	○	○		○			Too many (> 5) resets in 15 minutes	
				●			●	X	Main P.C.B. error	
○		○				○			Room sensor circuit open / short circuit	
							●	X	No flame detected	
	○	○	○			○			Flame detected with gas valve closed	
		●	●	●			●	X	Flame lift	
○		○		○		○			1st Ignition Failed	
	○	○	○	○		○			2nd Ignition Failed	
		○	○	○		○			Flame cut-off	
			●	●			●	X	Thermofuse open	
	●	●					●	X	Fan speed error	

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 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 guarantee.



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