User’s Operating Instructions & Important Warranty Information

Duo-tec 2 Combi GA Range

Gas Fired Wall Mounted Condensing Combination Boiler

Please keep these instructions in a safe place. If you move house, please hand them over to the next occupier.
## Model Range

<table>
<thead>
<tr>
<th>Baxi Duo-tec 2 Combi 24 GA</th>
<th>G.C.N.47-075-54</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baxi Duo-tec 2 Combi 28 GA</td>
<td>G.C.N.47-075-55</td>
</tr>
<tr>
<td>Baxi Duo-tec 2 Combi 33 GA</td>
<td>G.C.N.47-075-56</td>
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<tr>
<td>Baxi Duo-tec 2 Combi 40 GA</td>
<td>G.C.N.47-075-57</td>
</tr>
</tbody>
</table>

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**The Benchmark Scheme**

Baxi Heating UK Ltd 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](http://www.centralheating.co.uk).

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1.0 Quick Reference Guide

Key to Controls

- **R**: Standby - Reset - Esc
- **iP**: Boiler Information View
- **+/−**: Increase CH Temperature Button *
- **+/−**: Decrease CH Temperature Button *
  + **Important Note**: If your control system is fitted with the Optional Outdoor Sensor, these buttons will affect its operation. Please consult your installer for advice.
- **+/−**: Increase DHW Temperature Button
- **+/−**: Decrease DHW Temperature Button
- **Summer / Winter / Only Heating Mode Button**
  + **Summer - DHW only request mode**
  - **Winter - DHW & CH request mode**
  **/**: Only Heating - Only CH request mode

Display Description

- **DHW and CH OFF** (frost protection still enabled)
- **X**: Indicate errors that prevent burner from starting
- **/**: Error - Not resettable by user
- **L**: Water pressure too low
- **R**: Indicates a resettable error
- **P**: Indicates navigation in programming mode (parameter)
- **i**: Indicates navigation in programming mode
- **E**: Generic error
- **Burner lit**
- **DHW request**
- **Heating mode**
- **°C**: Units for temperature
- **°F**: Units for pressure
- **PSI**: Units for pressure
- **bar**: Units for pressure
- **Sd**: Service due

**NOTE**: When altering any settings it is necessary that the buttons are FIRMLY pressed for several seconds.
2.0 Troubleshooting

Boiler not working

START

Make sure the gas supply is turned ON and check if other gas appliances are operating (e.g. fire, cooker).

NO
If no gas, consult your supplier.

YES
Is there electricity to the boiler? Is the display lit?

YES
Is the Burner Flame showing.

NO

-make sure the gas supply is turned ON and check if other gas appliances are operating (e.g. fire, cooker).

Is there electricity to the boiler? Is the display lit?

YES
Is the Burner Flame showing.

 YES
Burner Flame (Indicates burner is on)

NO

Check electrical supply to boiler is switched on.

NO

Boiler Temperature

YES

Check electrical supply to boiler is switched on.

YES

Central Heating

Boiler operating satisfactorily.

YES

Is the E and R symbol illuminated or flashing?

YES
Press the Reset Button

CONTACT YOUR INSTALLER OR SERVICE ENGINEER.

OR

Is the Spanner symbol illuminated or flashing?

YES

CONTACT YOUR INSTALLER OR SERVICE ENGINEER.
2.0 Troubleshooting

If you don’t know what you need to do to get the boiler to light, or need help with the system and controls, contact your installer as soon as possible.

*To display the water pressure press 6 times. '05' will alternate with the system pressure.

(NOTE: When the pump is running the gauge under the boiler may show a slightly different reading to the display)
3.0 Temperature / Care of the Boiler

3.1 To increase or decrease the boiler temperature

1. Press the (            ) to increase the CH temperature.
2. Press the (            ) to decrease the CH temperature.

**NOTE:** An NTC device is positioned in the heat exchanger which shuts down the appliance if the boiler temperature exceeds 100°C. Press the (               ) button to re-establish normal operating conditions.

3.2 To increase or decrease the domestic hot water (DHW) temperature

1. Press the (             ) to increase the DHW temperature.
2. Press the (             ) to decrease the DHW temperature.

3.3 Summer - Winter - Only Heating Mode

1. Press  (               ) button until the required mode appears:-

   - Summer - DHW only request mode
   - Winter - DHW & CH request mode
   - Only Heating - Only CH request mode

2. See 3.1 or 3.2 to set the required temperature.

3.4 Cleaning the Outercase

The painted panels should be wiped with a damp cloth and then dried completely. **DO NOT USE ABRASIVE CLEANING AGENTS.**

3.5 Boiler Frost Protection

1. The boiler incorporates an integral frost protection feature that will operate in both CH & DHW modes, and also when in standby (     displayed).

2. If the boiler temperature falls below 5° C, then the boiler will operate until the water temperature has been raised.

3. Further protection may be required for the system. Consult your installer for details.

3.6 Information Display

1. The table opposite shows information that can be displayed by pressing the          button.

   - The          button can be pressed so that the display shows the following information:-
     - 1 press - '00' alternates with Sub-Code (only when fault on boiler) or '000'
     - 2 presses - '01' alternates with CH Temperature
     - 3 presses - '02' alternates with Outside Temperature (where Sensor fitted)
     - 4 presses - '03' alternates with DHW Temperature
     - 5 presses - '04' alternates with DHW Temperature
     - 6 presses - '05' alternates with System Water Pressure
     - 7 presses - '06' alternates with Return Temperature
     - 8 presses - '04' alternates with Flue Temperature
     - 9 presses - '05' alternates with Heat Exchanger Temperature
4.0 Repressuring System & 'Service Due'

4.1 Central Heating System Pressure

1. The normal operating water pressure is between 1 and 2.5 bar (Fig. 1). If the pressure exceeds 3 bar the safety pressure valve will operate and a fault is indicated (E117 displayed). Contact your installer.

2. It may be necessary to repressurise the system occasionally (as Fig. 2 or E118 displayed). A filling device (the filling loop) will be fitted on the system. This will be on the boiler itself, or on pipework near to the boiler.

3. If you are unsure of its position, or cannot identify it, consult the installer who fitted the boiler.

4. The filling loop consists of two taps and a separate copper pipe with connection fittings.

5. Only when repressurising should the copper pipe be connected between the two taps. Ensure that the nuts on the pipe ends are tightened onto the taps.

6. Fully open one of the taps first, and then while watching the pressure gauge, carefully open the second tap.

7. The system pressure is shown at all times on the gauge under the boiler and can be viewed on the display when there is power to the boiler.

8. To display the water pressure press six times. '05' will alternate with the system pressure. (NOTE: When the pump is running the gauge under the boiler may show a slightly different reading to the display)

9. When the needle on the gauge or figures on the display indicate 1 or more turn both taps off.

10. Disconnect the copper pipe from the taps (a small amount of water may be present) and remove it. Keep the pipe in a safe place for future use.

4.2 'Service Due' Message

1. After 11 months operation the 'Service Due' message will be shown on the boiler display.

2. Please contact your Installer, Annual Service Provider or 'heateam' - The Service Division of Baxi to arrange your Annual Service. You can contact 'heateam' on telephone number 08448 711 545 or visit www.heateam.co.uk
5.0 Clearances

5.1 For your Safety

1. This appliance must have been installed in accordance with the manufacturer’s instructions and the regulations in force.

2. Any modification that may interfere with the normal operation of the appliance without express written permission from the manufacturer or his agent could invalidate the appliance warranty. In GB this could also infringe the Gas Safety (Installation and Use) Regulations.

3. Your boiler must not be operated without the casing correctly fitted.

4. Do not interfere with any sealed components on this boiler.

5. Take note of any warning labels on your boiler.

6. Your boiler should have the following minimum clearances for Safety and Maintenance (Figs. 3 & 4):
   - Top: 175mm
   - Bottom: 150mm*
   - Left side: 5mm
   - Right side: 5mm
   - Front: 3mm (In Operation) - 450mm (For Servicing)

   *This is MINIMUM recommended dimension. Greater clearance will aid installation and maintenance.

7. If your boiler is installed in a compartment, do not use it for storage purposes. Do not obstruct any purpose provided ventilation openings.

8. Flammable materials must not be stored in close proximity to your boiler.

9. Avoid skin contact when your boiler is in operation, as some surfaces may get hot e.g. pipework.

10. Ensure that the flue terminal, outside the house, does not become damaged or obstructed, particularly by foliage.

11. It is important that the condensate drain system is not blocked, modified or damaged in any way as this would affect the operation of your boiler. Your installer should have insulated any exposed pipework.
6.0 Error Codes

6.1 List of Error Codes

1. The display shows two types of signals: ♂ and ♂. In both cases the display shows ♂ symbol and the numeric value of the error (see the “error table” below).

2. ♂ The spanner cannot be reset by the user. Please contact your Installer, Annual Service Provider or ‘heateam’ - The Service Division of Baxi to arrange your Annual Service. You can contact ‘heateam’ on telephone number 08448 711 545 or visit www.heateam.co.uk

3. ♂ Fault errors can be reset by pressing the ♂ button.

WARNING: If an error code (is different from the ones described below) appears on the display or a certain fault appears frequently, contact the authorised ‘heateam’.

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Table Of Error Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E 99</td>
<td>Gas Valve Connection Cable</td>
</tr>
<tr>
<td>E 15</td>
<td>Gas Valve Fault</td>
</tr>
<tr>
<td>E 20</td>
<td>Central Heating NTC Fault</td>
</tr>
<tr>
<td>E 28</td>
<td>Flue NTC Fault</td>
</tr>
<tr>
<td>E 30</td>
<td>Central Heating Return NTC Fault</td>
</tr>
<tr>
<td>E 35</td>
<td>Calibration Required</td>
</tr>
<tr>
<td>E 109</td>
<td>Pre-circulation Fault</td>
</tr>
<tr>
<td>E 110</td>
<td>Safety Thermostat Operated</td>
</tr>
<tr>
<td>E 117</td>
<td>Primary System Water Pressure Too High</td>
</tr>
<tr>
<td>E 118</td>
<td>Primary System Water Pressure Too Low</td>
</tr>
<tr>
<td>E 125</td>
<td>Circulation Fault (Primary)</td>
</tr>
<tr>
<td>E 28</td>
<td>Flame Failure</td>
</tr>
<tr>
<td>E 30</td>
<td>Flue NTC Operated</td>
</tr>
<tr>
<td>E 33</td>
<td>Interruption Of Gas Supply or Flame Failure</td>
</tr>
<tr>
<td>E 34</td>
<td>Elapsed Time - Gas Valve Open Without Gas</td>
</tr>
<tr>
<td>E 35</td>
<td>Interruption Of Gas Supply (Internal Error)</td>
</tr>
<tr>
<td>E 54</td>
<td>Flow/Return Sensor Temperature Test</td>
</tr>
<tr>
<td>E 60</td>
<td>Fan or Fan Wiring Fault</td>
</tr>
<tr>
<td>E 270</td>
<td>Circulation Fault (Dry Fire)</td>
</tr>
<tr>
<td>E 321</td>
<td>Hot Water NTC Fault</td>
</tr>
<tr>
<td>E 384</td>
<td>False Flame</td>
</tr>
</tbody>
</table>
7.0 Legislation

7.1 Installation, Commissioning, Service & Repair

1. This appliance must be installed in accordance with the manufacturer’s instructions and the regulations in force. Read the instructions fully before installing or using the appliance.

2. In GB, this must be carried out by a competent person as stated in the Gas Safety (Installation & Use) Regulations.

3. Definition of competence: A person who works for a Gas Safe registered company and holding current certificates in the relevant ACS modules, is deemed competent.

4. In IE (Eire), this must be carried out by a competent person as stated in I.S. 813 “Domestic Gas Installations”.

Lifting - This product should be lifted and handled by two people. Stooping should be avoided and protective equipment worn where necessary. Carrying & lifting equipment should be used as required, e.g. when installing in a loft space.

All Gas Safe registered engineers carry an ID card with their licence number and a photograph. You can check your engineer is registered by telephoning 0800 408 5500 or online at www.gassaferegister.co.uk

The boiler meets the requirements of Statutory Instrument “The Boiler (Efficiency) Regulations 1993 No 3083” and is deemed to meet the requirements of Directive 92/42/EEC on the energy efficiency requirements for new hot water boilers fired with liquid or gaseous fuels-

Type test for purpose of Regulation 5 certified by:
Notified Body 0085.

Product/Production certified by:
Notified Body 0086.
Ref: 86-BL-647

For GB/IE only.

7.2 Benchmark Commissioning Checklist

1. 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).

2. 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.

3. 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.

4. The completed Benchmark Checklist may be required in the event of any warranty work.
8.0 Emergency

Warning!

If you smell gas

- Do not operate light switches
- Do not operate any electrical equipment
- Do not use a telephone in the hazardous area
- Extinguish any naked flame and do not smoke
- Open windows and doors in the hazardous area
- Turn off the gas supply at the meter
- Warn any other occupants and vacate the premises
- Telephone the National Gas Emergency Service on: - 0800 111 999

Faulty boiler

If it is known or suspected that a fault exists on the boiler, it must not be used until the fault has been corrected by a competent person.

In an Emergency

1. If a water or gas leak occurs or is suspected, the boiler can be isolated at the inlet valves by turning their taps through 90° (¼ turn) downwards

2. Please contact your Installer, Annual Service Provider or ‘heateam’ - The Service Division of Baxi to arrange your Annual Service. You can contact ‘heateam’ on telephone number 08448 711 545 or visit www.heateam.co.uk as soon as possible.
Standard Warranty Terms & Conditions

To activate your second year free warranty you must register your boiler with heateam the service division of Baxi Heating UK Ltd either by completing and returning the registration card or calling our telephone registration line on 0800 013 7989.

It is also a requirement of the warranty that the boiler has an annual service (every 12 months) in accordance with the installation and servicing instructions, performed by a Gas Safe registered engineer.

If you would like heateam to carry this out please call on 0844 871 1525.

Our promise to you

If you experience a fault with your new boiler, we aim to provide a safe and high quality repair service supported by our dedicated national network of highly skilled engineers. If your installer can’t resolve the problem for you, we will do everything we can to get an engineer out to you as quickly as possible. Nothing in this warranty will affect your statutory consumer rights.

What you need to do if you experience a problem with your heating system or the operation of the boiler

You should always contact your installer first, because the cause of the fault may not be related to the boiler. If your installer confirms that the fault is with the boiler and he/she can’t repair it, our friendly customer service team is on hand to help. Simply call our service division heateam on 0844 871 1525 to book an engineer visit or for any general advice that you may need. Our contact centre is open Monday to Friday 8am - 6pm, weekends and Bank Holidays 8.30am - 2pm, excluding Christmas Day and New Years Day.

When calling heateam it would be helpful if you could have the following information to hand:

1. Boiler serial number (see opposite).
2. Boiler make and model number.
3. Your installer name and address details.
4. Proof of purchase (if you do not have the boiler serial number).

What this warranty covers

Free of charge repair or replacement of components found to be of faulty manufacture.

Free of charge replacement of the complete unit provided always that the failure is related to a manufacturing fault that cannot be repaired or is uneconomic to repair.

What this warranty does not cover

Repairs to boilers which haven’t been installed and commissioned properly, and as set out in the installation instructions (this includes the need to flush the system effectively and add a suitable corrosion inhibitor).

Any damage caused by hard water scale deposits and/or aggressive water resulting from corrosion.

Any other defects or failures, either in the connected heating system or outside of the boiler itself.

Faults caused by inadequate supply of electricity, gas or water to the property.

Installations within commercial settings for which this boiler was not designed.

Reimbursement of any third party repair or replacement costs that we haven’t been told about or agreed with you in advance.

Compensation for consequential losses (e.g. loss of earnings, business losses, stress and inconvenience) arising from a production breakdown, including repair delays caused by factors outside our reasonable control.

After Sales Service 0844 871 1525