

MAXOL

SUPACOMBI HE28



USER INSTRUCTIONS
TO BE GIVEN TO THE USER

CE
0086
Pin 87/BR/93

G.C. Appliance No. 47-260-12

1

INTRODUCTION

The **Maxol Supacombi HE 28** is a high efficiency condensing, fully automatic, wall mounted, fan-assisted, balanced flue gas combination appliance suitable for room sealed applications, for use with natural gas. This combination appliance provides the user with both central heating (CH) and domestic hot water (DHW) on demand.

The **Supacombi HE 28** provides central heating and domestic hot water at outputs between 12.1 kW (41,300BTU/h) and 28.3 kW (96,600 BTU/h).

Heat output is controlled according to demand (in both domestic hot water and central heating modes) by the fully modulating pre-mix burner control. The appliance always gives priority to domestic hot water supply. The appliance incorporates frost protection. The main electrical supply to the appliance must, however, not be isolated for this to be operational. An electro/mechanical 24hr time clock is fitted as standard.

Gas Consumer Council

The Gas Consumer Council (GCC) is an independent organization which protects the interests of gas users. If you need advice, you will find the telephone number in your local directory under 'Gas'.

2

SAFETY

Read these instructions and the user label (fitted on the boiler front panel) carefully before attempting to operate the appliance. Comply with all applicable warnings. **Do not interfere with any sealed components and use the appliance only in accordance with these instructions.**

2.1

CURRENT GAS SAFETY (INSTALLATION AND USE) REGULATIONS OR THE RULES IN FORCE.

It is the law that all gas appliances are installed by a competent person in accordance with the above regulations. Failure to install appliances correctly could lead to prosecution. It is in your own interest, and that of safety, to ensure that the law is complied with.

If the appliance is damaged, turn off the appliance and consult a CORGI registered installer.

If it is known or suspected that a fault exists on the appliance it **MUST NOT** be used until the fault has been rectified by a competent person.

2.2

ELECTRICAL SUPPLY

This appliance must be earthed.

Supply: 230V ~ 50Hz fused at 3A.

The method of connection to the mains supply must facilitate complete isolation of the appliance. Either a 3A fused three pin plug and unswitched shuttered socket outlet, or a 3A fused double pole switch having a 3 mm contact separation in both poles, serving only the boiler (and its external controls), may be used.

2.3

CLEARANCES AND VENTILATION

It is not necessary to have a purpose provided air vent in the room or internal space in which a room-sealed appliance is installed. Cupboard or compartment ventilation is not necessary for a room-sealed appliance providing that the minimum clearances are maintained.

3

BOILER LOGBOOK

Please ensure that the Benchmark Logbook supplied with the installation instructions of your appliance is completed by your installer to verify that the correct installation and commissioning procedure was followed. Failure to complete the Logbook may result in difficulties should a problem arise with your appliance during the guarantee period.

This Logbook forms part of the industry's Benchmark code of practice for the installation, commissioning and servicing of central heating systems. All CORGI Registered Installers carry a CORGI ID card and have a registration number. Both should be recorded in your Logbook.

You can check your installer is CORGI registered by calling CORGI on 0870 401 2230.

4

HOT WATER OPERATION

On a demand for DHW, water flow is detected and the ignition sequence initiated. The fan and pump will start and the boiler will light. If the DHW draw off rate is high (over 10l/min.), the appliance will run continuously at full output until the tap is either turned off, or the flow rate is reduced, in which case the heat supplied will reduce accordingly to maintain a steady temperature (60°C max).

Hot water is made available at the appliance outlet almost immediately, but the final temperature and time taken for the hot water to reach a tap depends upon the rate at which water is drawn off and the length of the pipe runs between the boiler and taps.

When the tap is turned off, the appliance after a short period of time will revert to central heating mode if there is a demand. Otherwise the burner will be extinguished until the next demand for hot water.



Note: After a hot water draw off the burner may stay on for a few seconds (see clause 5.8 'Keep hot facility' in the installation manual)

Priority is always given to Domestic Hot Water supply.

5

OPERATING INSTRUCTIONS

Refer to Fig. 1






5.1

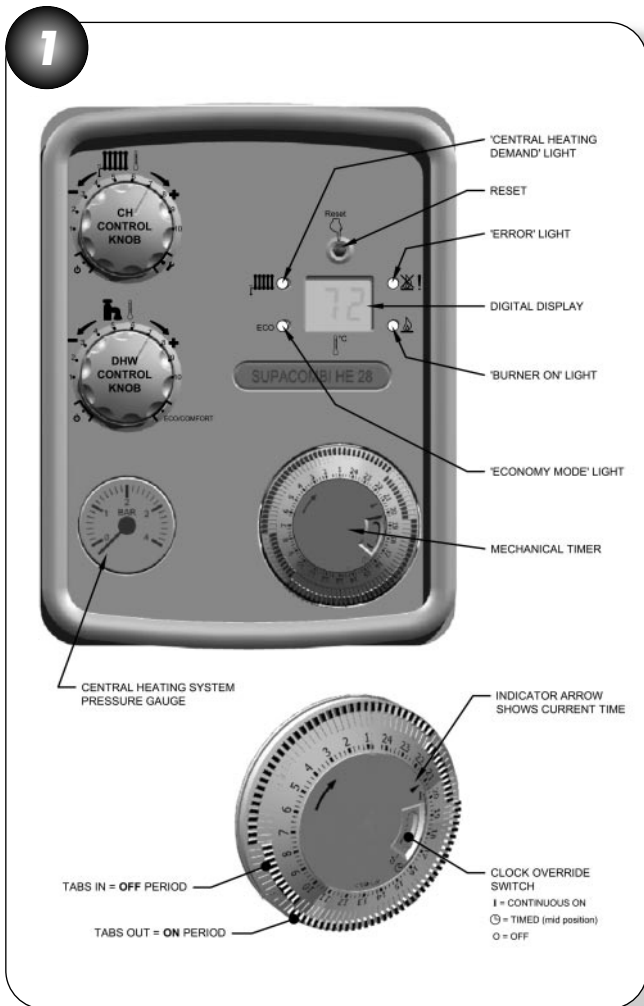
SETTING THE CLOCK AND TIMER

Switch on the electrical supply.

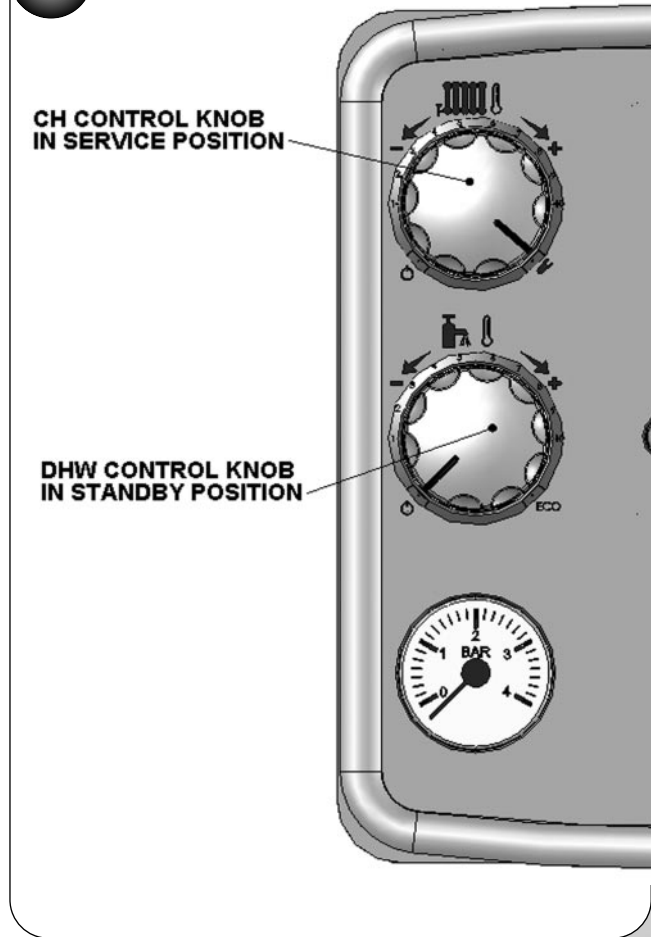
- 1) To adjust the timer to the current time of day, simply rotate the outside edge of the clock, clockwise to line up with the current time on the 24 hr clock dial.
- 2) To set the CH to come on at a specific time, slide out the small tabs around the outside edge of the timer, for the duration you would like the CH to be active. For instance – To activate the central heating between 6am and 9am, slide out all the tabs between the 6 and 9. To activate the central heating between 5pm and 10pm, slide out all the tabs between the 17 and 22. The boiler can be set to switch on and off at intervals of 15 minutes, as many times as required per day.
- 3) Set the clock override switch to the TIMED position (middle setting) which is marked as ☉. The CH will now be active during the time periods set.
- 4) If the clock override switch is set to **I** the timer will activate the CH continuously, and if it is set to **0**, the timer will turn the CH off.
- 5) The mechanical timer has no effect on the supply of DHW.

5.2 TO LIGHT THE BOILER IN CENTRAL HEATING MODE

- 1) If heating is required, ensure that the clock is set to an ON period (see diagram) or set the clock override switch to the ON position. Turn up the room thermostat (if fitted).
- 2) Turn the control knob to the midpoint between minimum and maximum setting. The digital display changes to the temperature setpoint in °C, and the CH demand  light will illuminate.
- 3) When the burner has lit the digital display changes to the boiler temperature to indicate heating ON and the flame  light will illuminate.
- 4) Hot water will be supplied as soon as any Domestic Hot Water tap is turned on. The flame  light will illuminate.
- 5) If the burner fails to light the fan will stop. Initially this may be due to air in the gas supply. The boiler will automatically have five attempts at ignition.
- 6) After the five attempts it may be necessary to RESET the boiler by pressing the RESET button.
- 7) If at any time the central heating demand  and ECO lights flash, the product is in service mode  (full clockwise). To remove from service mode, turn the CH control knob back to a position between 1 and 10.



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


5.3 CONTROL OF WATER TEMPERATURE


DHW: Hot water temperature is adjustable between 40 and 60°C.

CH: Adjustable via the CH temperature control knob to give radiator temperatures of between 40°C and 80°C. To operate the boiler more efficiently it is recommended that the CH temperature is set to about 6 on the dial.

Note: To select the Economy DHW control, i.e. without DHW preheat, turn the DHW temperature control knob fully clockwise and then back to the desired temperature setting. The ECO light will illuminate.

To avoid setting the control knob temperature to  in summer when CH is not required, switch the clock over-ride switch to the OFF position OR turn the room thermostat off.




Note: If the digital display shows flashing  and ECO lights the boiler is in service mode and the boiler will fire continuously at minimum input. (See fig.2)

This setting is for the convenience of the Service Engineer ONLY.

5.4 TO TURN THE BOILER OFF

For short or long periods

Switch the programmer and/or room thermostat switch to the OFF position.

Note: The appliance is fitted with a frost protection device. In the event of very cold conditions, the pump may operate and the boiler light for a few minutes to protect the appliance from potential frost damage. This can only function if the gas and electricity supplies are maintained and the control knobs on the appliance are set to the 'STANDBY'  position.

This function automatically operates the boiler when the heating system water reaches temperatures below 5°C.

If either the gas or electricity services are to be isolated during a period when frost is likely, the water circuits must be drained.

5.5 BOILER OVERHEAT PROTECTION

The appliance is fitted with two water temperature overheat controls. In the event of overheating, the boiler will shut down and the digital display will show 'H'.

Allow the boiler to cool, then press the RESET button.

If the fault persists, consult a CORGI registered installer.

5.6 DIAGNOSTIC DIGITAL DISPLAY

Refer to Fig. 1

If the digital display shows an error code between 1- 5, 24 and 41 the boiler is in lockout condition.

To RESET the boiler press the RESET button.

All other error codes are blocking codes which can not be RESET.

For detailed fault finding, refer to the diagnostic chart in the installation manual, together with the notes given in sections 8.3, 8.4 and 8.5 of the boilers installation manual.

5.7 PRESSURE GAUGE

The pressure gauge on the control fascia panel indicates the central heating system pressure. If the normal running pressure is seen to decrease from the original installation pressure of around 1 bar (cold) over a period of time, then there may be a water leak. In this event consult a CORGI registered installer.

Do not attempt to fire the boiler if the pressure has reduced to zero from the original setting.

6 GENERAL CARE

The front panel, being a powder coated white finish should be cleaned with a damp cloth and mild detergent. Do not use abrasive cleaners.

7 ROUTINE SERVICING

To ensure continued efficient operation of the appliance, it is recommended that it is checked and serviced as necessary at regular intervals. The frequency of servicing will depend upon the particular installation conditions and usage but in general once a year should be adequate. It is law that any service work must be carried out by a competent person such as British Gas or other CORGI registered personnel.

8 WARNING

If a gas leak is suspected or exists, turn the gas OFF at the incoming mains (adjacent to the meter). Do not operate any electrical switches. Do not operate any electrical appliances. Open all windows and doors. Do not smoke. Extinguish all naked lights. Phone the Transco 24 hour emergency number immediately on 0800 111 999. (Do not call from a mobile phone).

The boiler is fitted with a condensate trap.

The condensate drain point must not be modified or blocked (see section 4.6 of the installation manual).

9 PLUMING FROM TERMINAL

Like all condensing boilers this appliance will produce a plume of condensation from the flue terminal. This is due to the high efficiency and low flue gas temperature of the boiler. It is normal and not a fault.



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



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03/07- 751155

SERVICE HELPLINE: 01926 834834