

# USER'S GUIDE HIGH EFFICIENT COMBINATION BOILER

# LITTLE STAR LS 80 - LS 80 T LS 100 – LS 100T WITH OR WITHOUT BUILT IN TIMER

It is the law that all gas appliances are installed by a competent person, in accordance with the gas safety installation and use current regulations. To the current Gas Safety (Installation and Use) Regulations 1994 (as amended).

All CORGI registered installers carry a CORGI I.D. card and have a registration number. Both should be recorded in your boiler log book. You can check your installer by calling CORGI direct on: 01256 732300.

nchmo

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

# Escape of gas

**Should a gas** leak be **suspected**, contact your gas supplier without delay.

Do NOT search for gas leaks with a naked flame. WARNING: This appliance must be earthed. Do not touch or tamper with this sealed unit or its components

# 1. INTRODUCTION

- 1.1 Please carefully read information given in the booklet to help you gain maximum control from your appliance with minimum trouble and cost.
- 1.1.1 Your Ravenheat Combination Boiler has been designed to supply your Central Heating and Domestic Hot Water directly from one unit. When central Heating is operating, the circulation will be interrupted when domestic hot water is being drawn off. This will normally not affect the level of heating.

# CLEARANCES AROUNDTHE BOILER

Above 125 mm Below 100 mm Front 450 mm Sides 5 mm 5 mm in front when installed in a cupboard.

1.2.1 Minimum clearances are required for safety and maintenance. Do not obstruct any purpose made ventilation opening if boiler has been fitted in a compartment. Never hang clothes, etc., over the appliance.

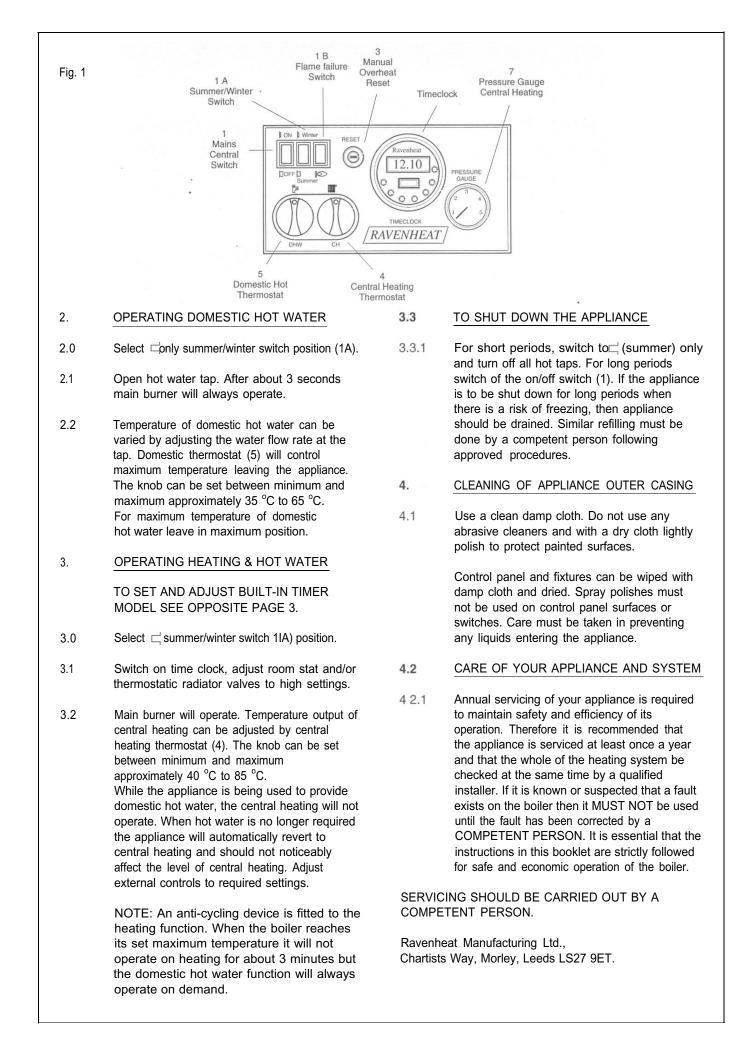
# 1.3 USER CONTROLS

#### See Fig. 1

1.3.1 This appliance is designed to operate with the minimum of attention by the user. All controls are to be found on the control panel.

#### 1.4 OPERATING SAFETY CHECKS TO PROTECTYOUR APPLIANCE

- **1.4.1** Before lighting the appliance check central heating system pressure (7) is not less than 1 bar gauge. If it is below this do not light but consult your installer about refilling your system as you may have a leak in the system.
- 1.4.2 An ORANGE warning light on the control panel warns of a flame failure of the main burner. This can be reset manually by pressing flame failure switch (1B).
- 1.4.3 Overheat thermostat lockout could occur due to air or poor circulation in the boiler/heating circuit. This can be reset manually by removing grey cover (3) on control panel and pressing red reset button. Replace cap. If lockout should persist leave the appliance shut down and consult your installer/service engineer immediately.



# PROGRAMMABLETIMECLOCK

INSTRUCTIONS FOR USE

Your Ravenheat boiler comes complete with (optional) digital programmer. The timeclock is supplied with a cover to prevent accidental loss of programme, or children tampering with preset programmes.

# 5. TO PROGRAMME TIMECLOCK

To access programming buttons remove clear cover, Press reset key with a pencil before setting or reprogramming times.

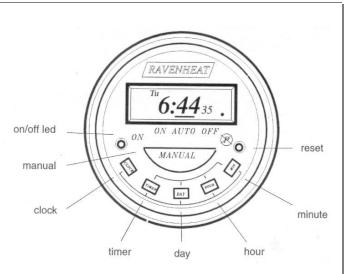
- 5.1.1 TO SET TIME AND DAY OF THE WEEK:
- 5.1.1.1 SET DAY OF WEEK:
  - Press clock button and hold in. Press day button to desired day.
  - Release both buttons, The day of the week will be set.
- 5.1.1.2 SET HOUR:
  - Press clock button and hold in.
  - Press hour button to desired time, - *Release* both buttons, The hour will be set.
- 5.1.1.3 SET MINUTE:
  - Press clock button and hold in. Press minute button to desired time
  - Release both buttons.
    - The minute will be set.

**NOTE:** When, setting time holding in the hour/minute button this will rapidly advance the display.

- 5.12 TO SET PROGRAMMES:
- 5.1.2.1 Press timer button and release to enter into programme mode.
- 5.1.2.2 Programme "1 ON" will show in lower left hand corner.
- 5.1.2.3 Press DAY key to select the programme period There are 10 day settings for your choice.
  (1) Mo to Su (2) Mo (3) Tu (4) We (5) Th
  (6) Fr (7) Sa (8) Su (9) Mo+Tu+We+ThtFr
  (10) Sa+Su.

You now have a choice of 6 programmes.

- 5.1.2.4 Press hour button to set the required hour 'on'.
- 5.1.2.5 Press minute button to set minute,
- 5.1.2.6 After setting the programme press **TIMER** key again "1 OFF" will appear. Repeat procedure 5.123 through to 5.1.2.5 to set programme "1 OFF"TIME.



For each programme days 'off' setting must be input the same as the 'on' setting.

- 5.1.2.7 After setting programme 1 ON/OFF TIME repeat step 2.1 to 2.7 to set programmes 2 through to 6 if required.
- 5.1.2.8 Your timer gives you up to 6 different ONE and 6 different OFF settings per programme period. Note you have a choice of 6 ON-6 OFF programmes max.

# 5.1.2.6.1 REVIEWYOUR PROGRAMMES:

- Press the TIMER key to advance display to each subsequent ON or OFF setting.

- Check days and times displayed.
- To make a change, follow instructions under 'TO SET PROGRAMMES".

Note on completion of programming operations press the clock button to show current time/day and replace the clear tamper proof cover.

# 5.1.2.8.2 MANUAL KEY

- Press MANUAL key to select ON / AUTO / OFF mode.
- ON mode is to turn on the timer, OFF mode is to turn off the timer.
- AUTO mode is to set the timer to programme mode. It will turn on or turn off according to the programmes you set.
- From ON to AUTO mode it will turn on until next OFF programme.
- From OFF to AUTO mode it will turn off until next ON programme.
- 5.1.2.8.3 LED INDICATOR

LED light is on when the boiler is operating in heating mode.

5.1.3 TO RESET TIMER:

Press reset button to reset the timer unit.

# NOTE:

Once the reset button is pressed, the stored time and programme will be cleared to initial state.

N.B.: When the clock is either 'programmed" on, or is on constant, the red indicator will illuminate



Chartists Way, Morley, Leeds, LS27 9ET. Telephone: (0113) 252 7007 Tfax: (0113) 238 0229

> Ravenheat reserves the right to make changes and improvements in our products which may affect the accuracy of the information contained in this leaflet.