# 

# CONDENSING SYSTEM INNOVATION SUPER HIGH EFFICIENTY AUTOMATIC MODULATING COMBINATION BOILER FOR CENTRAL HEATING AND DOMESTIC HOT WATER

# USER'S GUIDE CSI 85 AAA(T) 780 SERIES

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 B.S. 5440:2 - (2000).

All registered installers carry a Gas Safe I.D. card and have a registration number. Both should be recorded in your boiler Benchmark Checklist. You can check your installer by the gas safe register.



#### ESCAPE OF GAS

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

GAS EMERGENCY NUMBER: 0800111999

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 the information in the booklet to help you gain maximum if from your appliance with minimum trouble.

1.1.1 Your Ravenheat Condensing 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 the heating.

# **1.2 CLEARANCES AROUND THE BOILER**

Above 125mm(5 inches)Below 150mm(6 inches)Front 450mm(18 inches)Sides 5mm(0.2 inches)25mm (1 inch) at the front when installedin a cupboard.

#### PLEASE NOTE

Due to the high efficiency and resulting low flue gas exhaust temperature a white plume of condensation vapour (cool steam) will be emitted from the flue outlet terminal, this is quite normal. It will be particularly evident during periods of low outdoor temperatures or when the boiler is working at its optimum performance.

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 PROTECT YOUR APPLIANCE

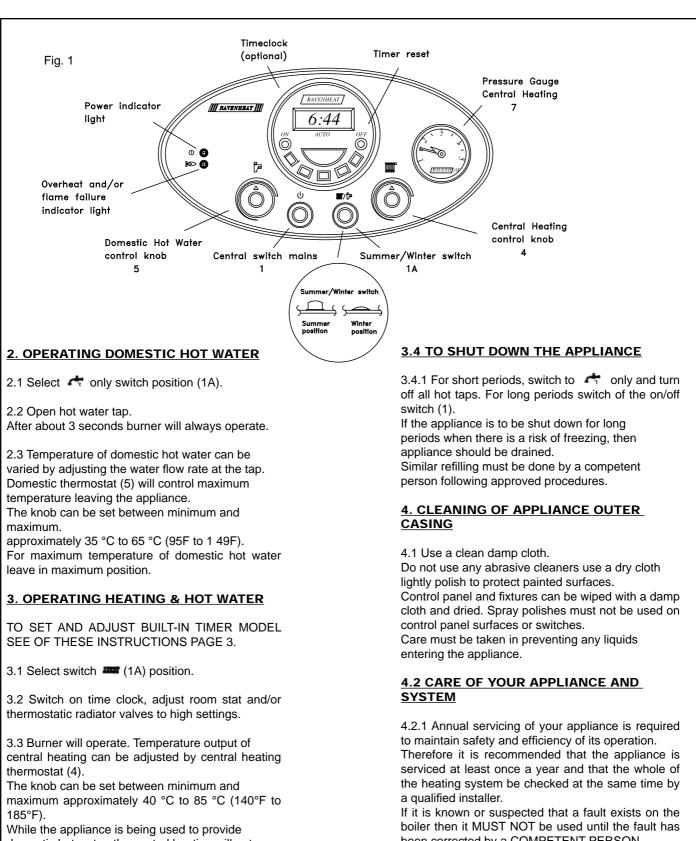
1.4.1 Before lighting the appliance check central heating system pressure ((7) is not less than 1 bar gauge. If it is below this do not light but consult your installer about refilling your system as you may have a leak in the system.

1.4.2 A RED warning light on the control panel (8) warns of a flame failure of the burner. This can be reset manually by pressing mains boiler on/off switch (1).

1.4.3 A RED warning intermittence light on the control panel (8) warns of a high temperature lockout on the overheat thermostat. This could occur due to air or poor circulation in the boiler/heating circuit. This can be reset manually by pressing mains boiler on/off switch (1). If lockout should persist leave the appliance shut down and consult your installer/service engineer immediately.

1.4.4 The CSI 85 AAA(T) - 780 series condensing boiler is fitted with a condensate outlet which must be connected by the installer to a suitable discharge point as specified in the installation manual.

On no account should this discharge pipe be blocked or modified.



domestic hot water, the central heating will not operate. When hot water is no longer required the appliance

will automatically revert to central heating and should not noticeably affect the level of central heating. Adjust external controls to required settings. NOTE: An anti-cycling device is fitted to the heating

function. When the boiler reaches its set maximum

temperature it will not operate on heating for about 4 minutes but the domestic hot water function will always operate on demand.

been corrected by a COMPETENT PERSON. It is essential that the instructions in this booklet are

strictly followed for safe and economic operation of the boiler.

SERVICING SHOULD BE CARRIED OUT BY A QUALIFIED INSTALLER.

Ravenheat Manufacturing Ltd., Chartists Way, Morley, Leeds LS27 9ET.

#### **PROGRAMMABLE TIMECLOCK** 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 pre-set 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.

5.1.2 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.

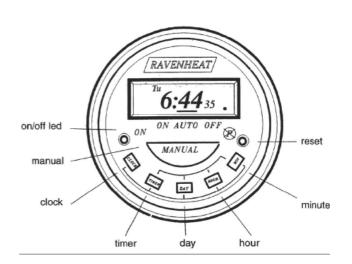
5.1.2.3 Press DAY key to select the programme period. There are 10 day settings for your choice.
(1) Mo to Su (2) Mo (3) Tu (4) We (5) Th (6) Fr (7) Sa
(8) Su (9) Mo+Tu+We+Th+Fr (10) Sa+Su.

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 5.1.2.3 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.

#### 5.1.2.8.1 REVIEW YOUR PROGRAMMES:

- Press the TIMER key to advance display to eache 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.



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