

## USERS GUIDE

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**RF Electronic Programmable Room Thermostat, 7 day**

**LOGIC+ Combi, LOGIC Combi & LOGIC Combi E**  
**24, 30, 35**

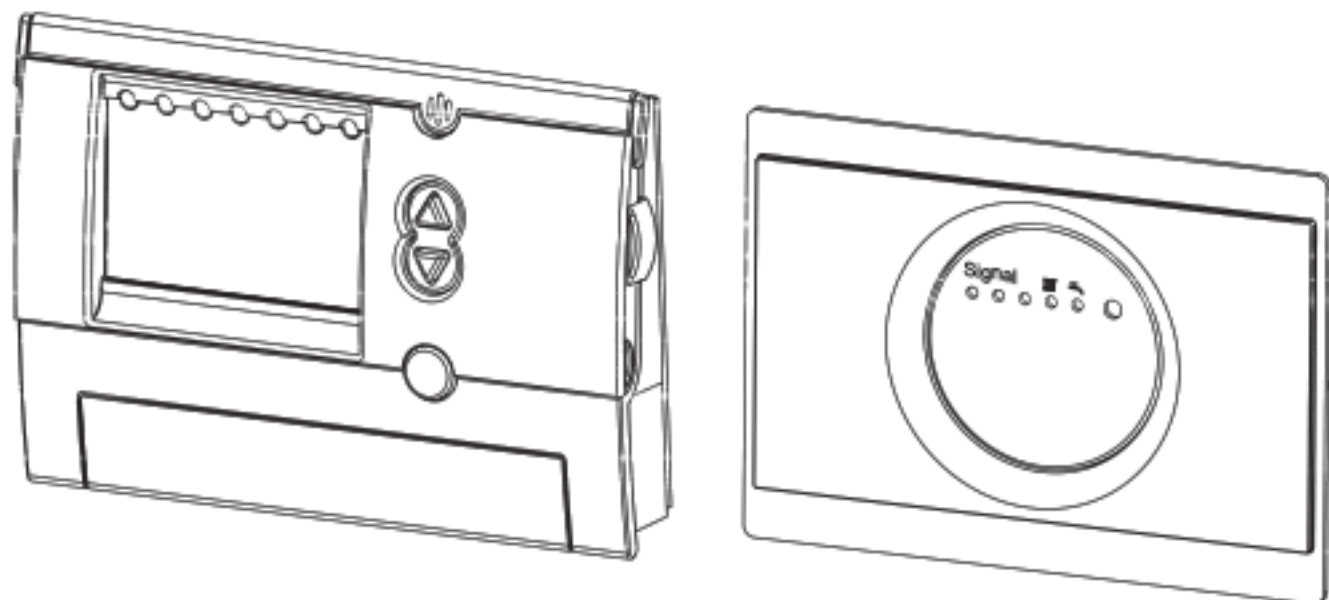
When replacing any part on this appliance, use only spare parts that you can be assured conform to the safety and performance specification that we require. Do not use reconditioned or copy parts that have not been clearly authorised by Ideal.



The national regulations and respective safety instructions are to be observed.  
Interferences and changes to the device will lead to cancellation of the warranty.

# LOGIC COMBI, LOGIC COMBI E & LOGIC + COMBI

RF Electronic Programmable Room Thermostat, 7 day Instructions



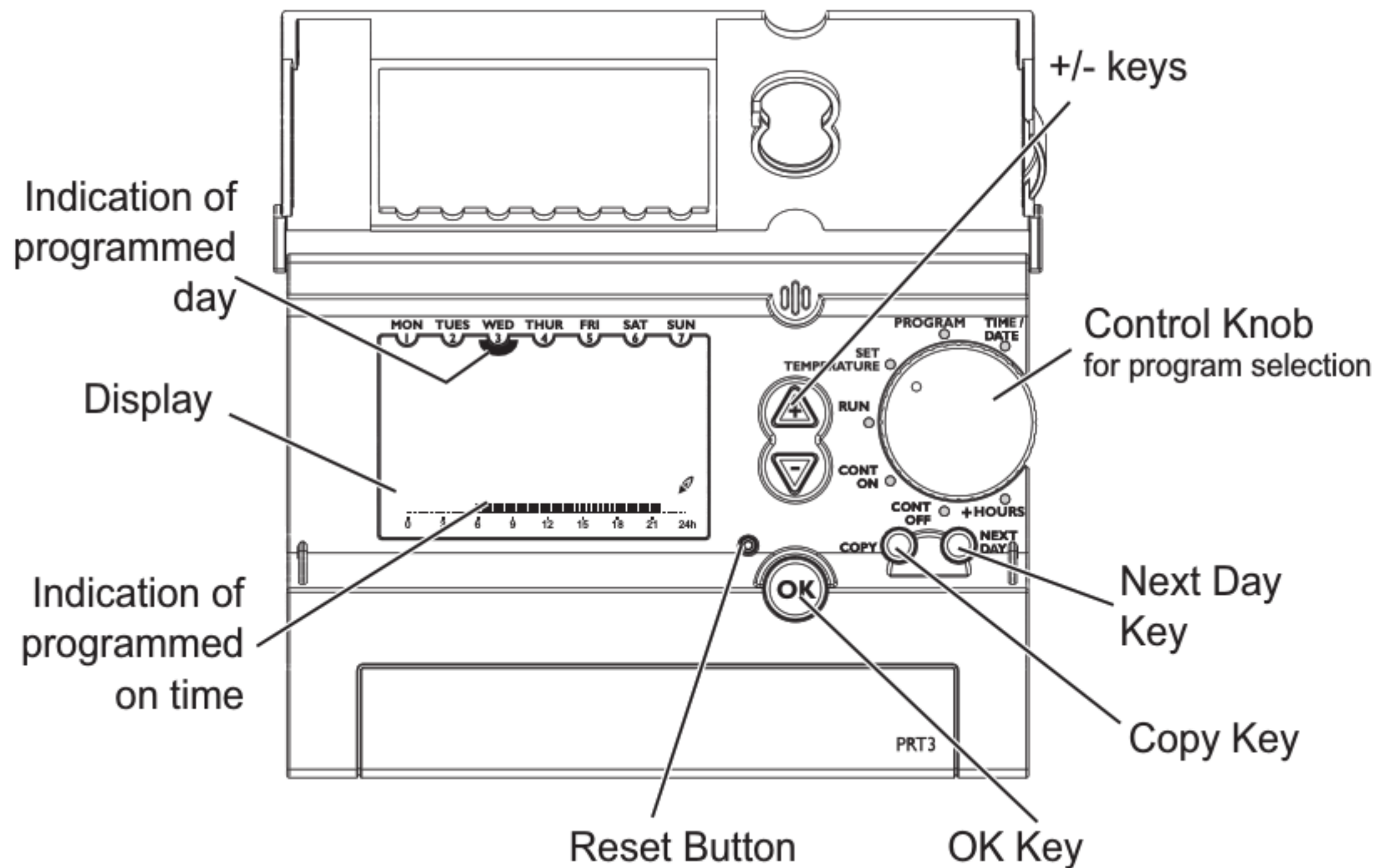
## The Ideal Logic Combi RF Programmable Room Thermostat features the following:

- *Summer/Winter Time (GMT/BST) automatically updated*
- *7 day timed control of central heating by Opentherm (saves energy & reduces costs by operating at lower temperature)*
- *Room Temperature Control*
- *Radio Frequency Communication (no wiring)*
- *Simple User Interface*
- *English Language boiler fault messages and suggested corrective actions*
- *Timed pre-heat (to save energy and reduce costs)*
- *+ Hours Mode*
- *Holiday Mode*

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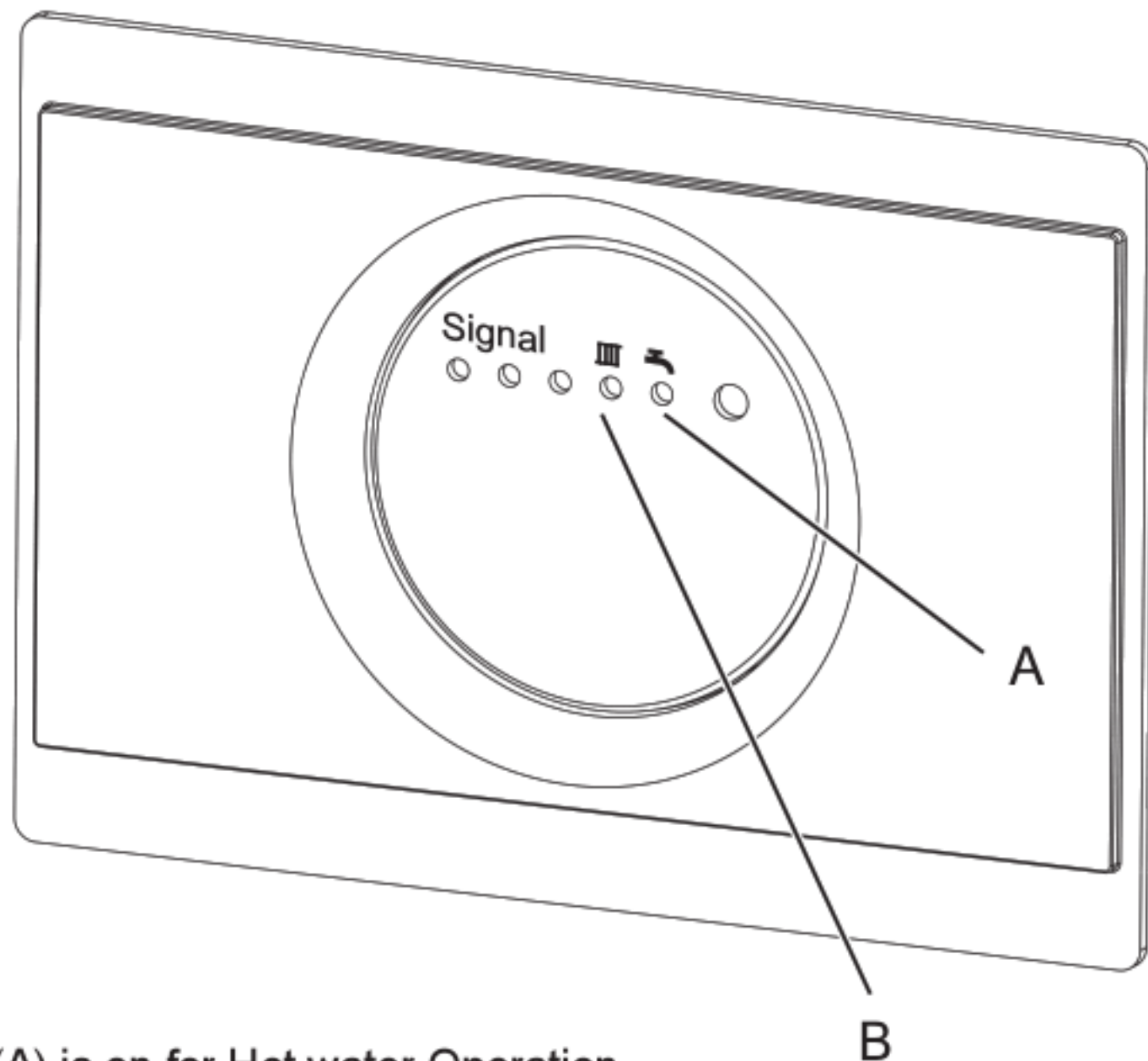
# ELECTRONIC PROGRAMMABLE ROOM THERMOSTAT, 7 DAY



*Note.*

*If a battery symbol is blinking, the display is blinking or the display is blank then replace batteries.*

RECEIVER UNIT (BOILER MOUNTED)



1. During normal operation light (A) is on for Hot water Operation.
2. During normal operation light (B) is on for Central Heating Operation.
3. If the Reset Button is pressed on the room thermostat the signal lights on the receiver unit will light. If less than 4 lights are on either the room thermostat is too far from the boiler or the batteries in the room thermostat need replacing.

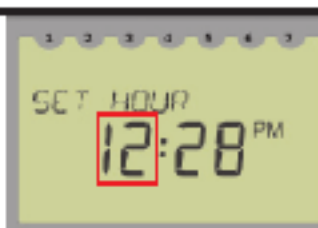
At the same time "M-050 S-050" is shown on the room thermostat. The number is another indicator of signal strength - the lower the number the better.

## SETTING THE TIME AND DATE

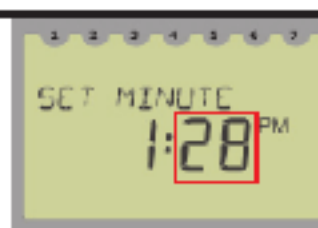
Note. Summer/Winter time automatically updated.

1. Turn the **Control Knob** to the "TIME/DATE" position

2. Press the **▲** and **▼** keys to change the **Hours** to the current time and to enter press the **OK** key



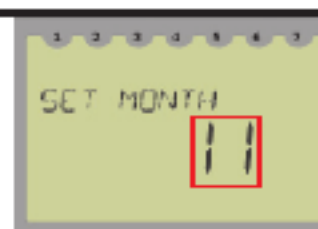
3. Press the **▲** and **▼** keys to change the **Minutes** to the current time and to enter press the **OK** key



4. Press the **▲** and **▼** keys to change the **Year** to the current year and to enter press the **OK** key



5. Press the **▲** and **▼** keys to change the **Month** to the current month and to enter press the **OK** key (note, January = 1)



6. Press the **▲** and **▼** keys to change the **Day of the Month** to the current day of the month and to enter press the **OK** Key

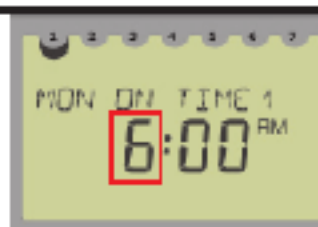


7. Turn the **Control Knob** to the required operating condition: "RUN", "Cont On" or "Cont Off"

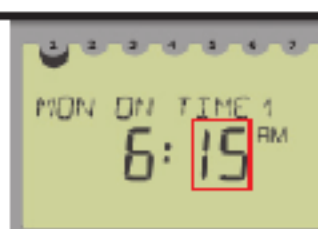
## SETTING THE PROGRAM

1. Turn the **Control Knob** to the "PROGRAM" position

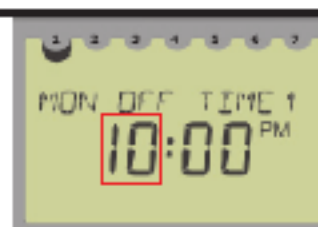
2. Press the **+** and **-** keys to change the **Hours** figure for **Monday's 1st On Time** and to enter press the **OK** key



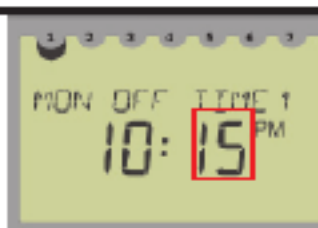
3. Press the **+** and **-** keys to change the **Minutes** figure for **Monday's 1st On Time** and to enter press the **OK** key



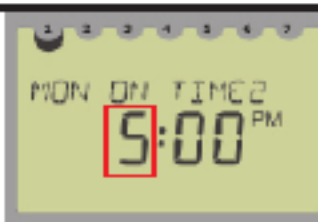
4. Press the **+** and **-** keys to change the **Hours** figure for **Monday's 1st Off Time** and to enter press the **OK** key



5. Press the **+** and **-** keys to change the **Minutes** figure for **Monday's 1st Off Time** and to enter press the **OK** key

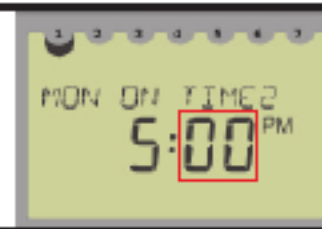


6. If you do not wish to set any further times for Monday press the **Next Day Key** (and move to point 10). Otherwise, press the **+** and **-** keys to change the **Hours** figure for **Monday's 2nd On Time** and to enter press the **OK** key

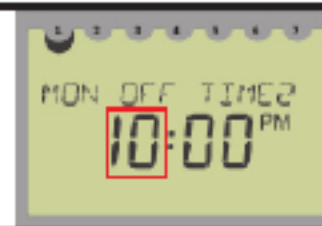


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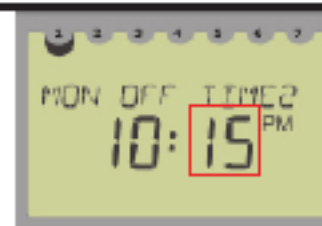
7. Press the **+** and **-** keys to change the **Minutes** figure for **Monday's 2nd On Time** and to enter press the **OK** key



8. Press the **+** and **-** keys to change the **Hours** figure for **Monday's 2nd Off Time** and to enter press the **OK** key



9. Press the **+** and **-** keys to change the **Minutes** figure for **Monday's 2nd Off Time** and to enter press the **OK** key



Note. If you would like to set a 3rd On period then continue programming in the same manner. Otherwise press the **Next Day** key.




10. If you would like to have the same On and Off times for Tuesday as for Monday then press the **Copy** key and then the **OK** key. To move to Wednesday press the **Next Day** key, continuing in the same manner. If you would like to have different times for Tuesday, then enter them in the same manner as for Monday. When programming for Sunday is complete turn the control knob to the RUN position to activate the program.

11. Turn the **Control Knob** to the required operating condition: "RUN", "Cont On" or "Cont Off"



## SETTING THE ROOM TEMPERATURE

1. Turn the **Control Knob** to the **"SET TEMPERATURE"** position

2. Press the  and  keys to change the Temperature and to enter  
press the  key



3. Turn the Control Knob back to the required mode of operation:  
**"RUN"**, **"CONT ON"** or **"CONT OFF"**

4. Turn the **Control Knob** to the required operating condition: RUN, CONT ON or CONT OFF

## SETTING THE RF PROGRAMMABLE ROOM THERMOSTAT TO RUN IN AUTOMATIC MODE

(using the programmed on and off times)

1. Turn the **Control Knob** to the '**RUN**' position

## SETTING THE RF PROGRAMMABLE ROOM THERMOSTAT TO BE CONTINUOUSLY ON

1. Turn the **Control Knob** to the '**CONT ON**' position

## SETTING THE RF PROGRAMMABLE ROOM THERMOSTAT TO BE CONTINUOUSLY OFF

1. Turn the **Control Knob** to the '**CONT OFF**' position




## SETTING + HOURS

*Note. Use of the '+ Hours' function will ensure the boiler operates continuously for up to 3 hours.*

*If used during an off period, the boiler will then operate for up to 3 hours.*

*If used during an on period less than 3 hours prior to an off period, it can extend the on time.*

1. Turn the **Control Knob** to the "+ HOURS" position




2. Press the  and  keys to set the required **+ Hours time** and to enter press the  key. Setting the time to 0 will disable this function.

3. Turn the **Control Knob** to the required operating condition: RUN or CONT OFF

## ADVANCED FEATURES




## A. HOLIDAY MODE

1. Ensure the knob is in the "RUN" position then press the  key for more than 3 seconds

2. Press the  and  keys to change the **Year** to the year the holiday will **start** in and to enter press the  key

3. Press the  and  keys to change the **Month** to the month the holiday will **start** (note, January = 1) and to enter press the  key

4. Press the  and  keys to change the **Day of the Month** to the day of the month the holiday will **start** and to enter press the  key

5. Press the  and  keys to set the length of the holiday and to enter press the  key

*To delete a previously set holiday period, change the number of days to 0*

## ADVANCED FEATURES

### ***B. TIMED PRE-HEAT***

When Domestic Hot Water preheat is switched on the boiler control the boiler will preheat during the timed on central heating periods so as to provide more efficient water delivery. This function is disabled when the preheat switch is set to off.

**ADVANCED FEATURES****C. OPTIMISATION**

This feature provides for greater comfort and economy of operation. The boiler will be switched on earlier than the programmed heating on time. This provides for the room temperature to be achieved at the programmed heating on time, rather than some time afterwards. The boiler will automatically only use the minimum energy required in order to achieve the desired room temperature.

To set an optimisation period, press the 'Copy' and 'Next Day' keys together for more than 3 seconds. Note that the programmed heating on time should be set for when the house is required to be at the set temperature and not to allow for warming up of the property.

The optimisation can then be set between 10 and 60. (Note that 00 = OFF)

It is advised that a setting between 10 and 30 should be used, to ensure the central heating does not switch on earlier than desired.

This number is multiplied by the difference between the actual temperature and the desired temperature to determine what time before the start of the 1st on period the heating should be switched on.

**EXAMPLE 1:**

If the optimisation period is set to 10 and the desired room temperature is 20°C at 6am and the actual room temperature is 19°C then the central heating will switch on  $(20-19) \times 10 = 10$  mins early (i.e. at 5.50am)

**EXAMPLE 2:**

If the optimisation period is set to 30 and the desired room temperature is 20°C at 6am the actual temperature is 16°C then the central heating will switch on  $(20-16) \times 30 = 2$  hours early (i.e. at 4.00am)

**ADVANCED FEATURES**
**D. ENGLISH LANGUAGE ERROR DESCRIPTION**

Boiler fault codes are identified on the display in plain English, they are also supported with a suggested corrective action to aid diagnostics.

<b>BOILER ERROR CODE</b>	<b>ERROR DISPLAY CORRECTIVE ACTIONS</b>
L1 - OVERHEAT LOCKOUT	<ol style="list-style-type: none"> <li>1. FILL SYSTEM TO 1.0 BAR</li> <li>2. BLEED RADIATORS</li> <li>3. CHECK RADIATOR VALVES OPEN</li> <li>4. RESET BOILER</li> </ol>
L2 - IGNITION LOCKOUT	<ol style="list-style-type: none"> <li>1. CHECK OTHER GAS APPLIANCES WORK</li> <li>2. RESET BOILER</li> </ol>
L3 - NO WATER FLOW LOCKOUT	<ol style="list-style-type: none"> <li>1. FILL SYSTEM TO 1.0 BAR</li> <li>2. BLEED RADIATORS</li> <li>3. CHECK RADIATOR VALVES OPEN</li> <li>4. RESET BOILER</li> </ol>
L4 - NO WATER FLOW LOCKOUT	<ol style="list-style-type: none"> <li>1. FILL SYSTEM TO 1.0 BAR</li> <li>2. BLEED RADIATORS</li> <li>3. CHECK RADIATOR VALVES OPEN</li> <li>4. RESET BOILER</li> </ol>
L5 - TOO MANY RESETS ON ROOM STAT	<ol style="list-style-type: none"> <li>1. RESET BOILER</li> </ol>
L6 - FAULT 8	<ol style="list-style-type: none"> <li>1. CONTACT INSTALLER</li> </ol>

*cont. . . .*

**ADVANCED FEATURES**

F1 - LOW WATER PRESSURE	1. FILL SYSTEM TO 1.0 BAR 2. BLEED RADIATORS
F2 - FLAME LOSS	1. CHECK OTHER GAS APPLIANCES WORK
F3 - FAN FAULT	1. CONTACT INSTALLER
F4 - FLOW THERMISTOR FAULT	1. CONTACT INSTALLER
F5 - RETURN THERMISTOR FAULT	1. CONTACT INSTALLER
F6 - OUTSIDE SENSOR FAULT	1. CONTACT INSTALLER
F7 - LOW MAINS VOLTAGE	1. CONTACT ELECTRICITY PROVIDER
F9 - PCB FAULT	1. CONTACT INSTALLER
F0 - NO WATER FLOW THERMISTOR FAULT	1. CONTACT INSTALLER
FA - FLOW/RETURN REVERSED	1. CONTACT INSTALLER
c0 - PCB REPLACED	1. RESET BOILER
c2 - BOILER TYPE CARD FAULT	1. CONTACT INSTALLER



## ADVANCED FEATURES

### ***E. OPENTHERM***

The unit uses the OpenTherm protocol to control the boiler flow temperature set point in central heating operation. This means that the boiler will run in its most efficient manner and offer significant savings in energy over standard room thermostats. It will also give more accurate and comfortable temperature control in the room where it is installed.

If the room temperature is close to its setpoint then the pump may run for extended periods without switching the burner on. This is normal operation which reduces gas consumption whilst maintaining the desired room temperature.

### ***F. BUILT IN FROST PROTECTION***

If the temperature in the room falls below 5°C, the boiler will fire to maintain the minimum 5°C setpoint regardless of whether the timer is in an “off” period or not.

## BATTERY REPLACEMENT

The unit required 2 x AA 1.5V Batteries.

Batteries should operate for approximately 18 months.

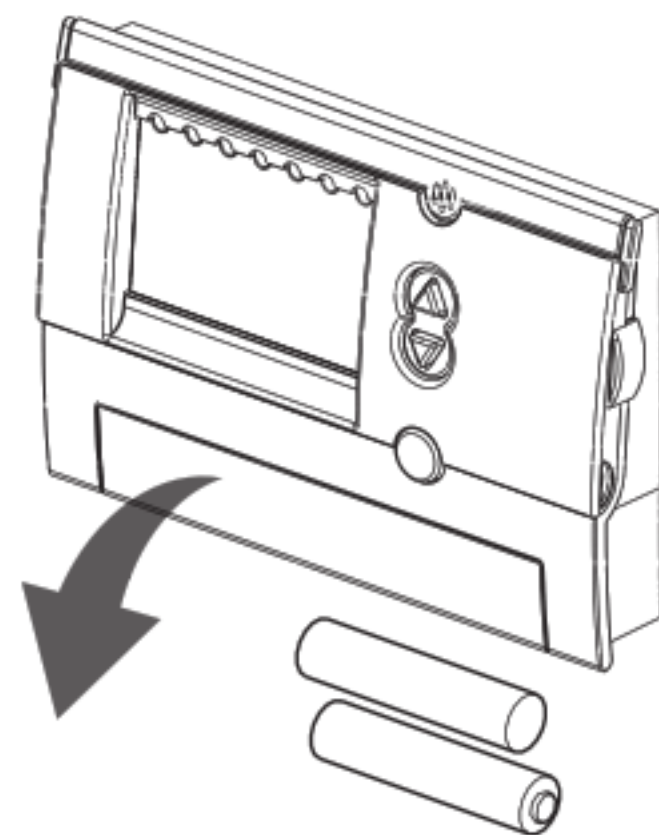
**Only good quality 1.5V alkaline batteries should be used. DO NOT use rechargeable batteries as they only have a terminal voltage of 1.2V nom.**

To replace batteries remove battery panel on the front of the room thermostat to gain access.

Note that if the batteries are removed for more than 30 seconds, the time, date, and set temperature will be lost.

If the batteries are not replaced and no signal is received by the receiver all 5 lights on the receiver on the boiler will flash on and off.

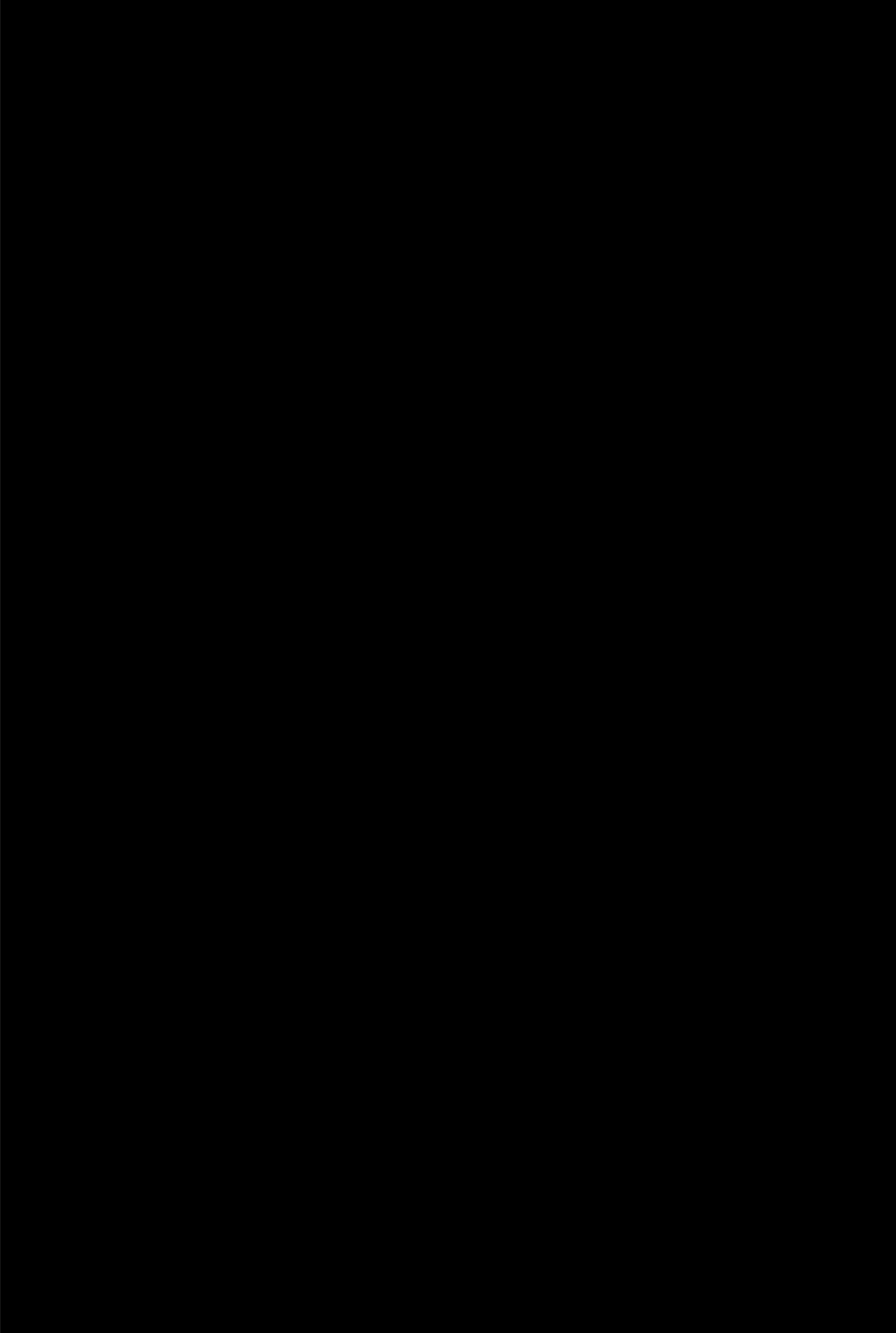
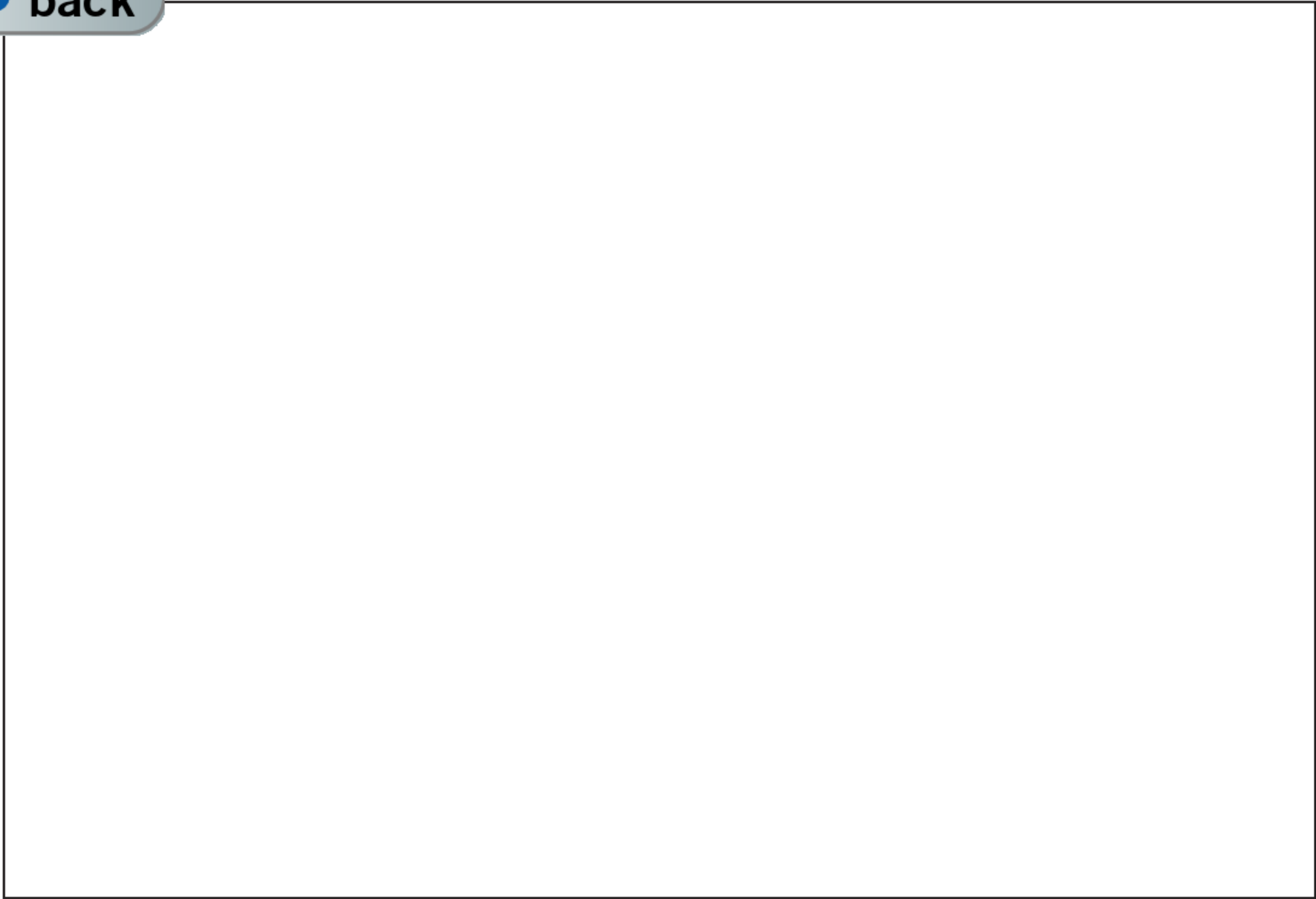
After 1 hour the boiler will operate in "Emergency Mode" with a continuous, but reduced temperature until the batteries are replaced.



Batteries - 2x 1.5V LR6/AA



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**Ideal Stelrad Group** pursues a policy of continuing improvement in the design and performance of its products. The right is therefore reserved to vary specification without notice.

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