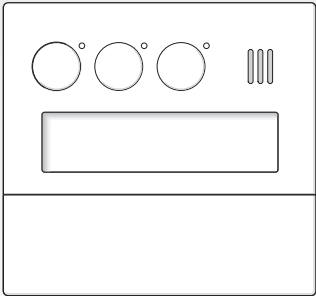


Remote controller

USER’S MANUAL <Operation Guide>

Model
RC-9018C



Note to Owner:

This User’s Manual provides additional details on the operation of this remote controller not covered in the water heater Owner’s Guide. Keep this and all manuals provided with the water heater for future reference.

Thank you for purchasing this Remote controller.

* Please read this User’s Manual carefully to ensure appropriate use.

* These operating instructions describe the functions of this remote controller.

Keep these instructions where they can be found whenever necessary, preferably in the same location as the Owner’s Guide provided with the water heater.

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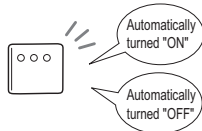
Default Settings 27



RC-9018C Operation Overview

Basic operation

It is possible to automatically turn the water heater "ON" or "OFF".



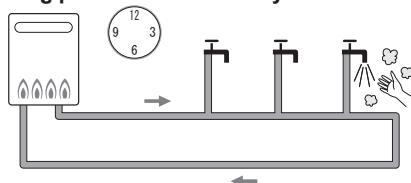
☞ P12

It is possible to lock remote controller operation.



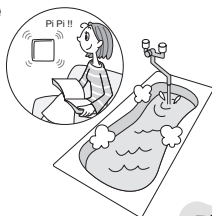
☞ P14

[For recirculation systems (System [Rcirc 1])]
It is possible to circulate hot water only during preferred times of day.



☞ P20

[When using only one water heater:]
It is possible to set the remote controller to alert the user when the water delivery volume has reached a preset fill volume.

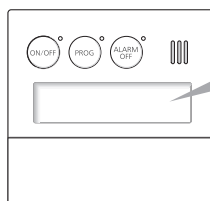


☞ P22

Power Saving Mode

The initial setting is set to "Powersave dsply : No-1"

If you set "Powersave dsply" to "Yes" (☞ P15), unnecessary power consumption by the remote controller is prevented. If approximately ten minutes pass without using hot water or without pressing a button, the display of the remote controller turns off.



The display turns off (operation is "ON")

- * If you use hot water or press a button, "Powersave dsply" is released.
- If you press the PROG button only once, "Powersave dsply" is released and the automatic program function will operate.
- * If the setting temperature is set to 55°C or more, "Powersave dsply" will not function to prevent accidental scalding.
- * If "Recirc" is operating, "Powersave dsply" will not function.

This setting is adjustable ☞ P15

User Preferences

The remote controller can be customized based on the preference of the user in the following ways:

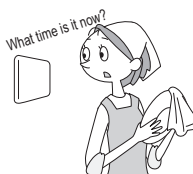
The set temperature can be restricted to a maximum level to prevent high temperature settings from being selected.



Adjusting the Maximum Output Temperature

➡ P15

The clock display can be shown even though the power ON/OFF button is set to "OFF".



The remote controller display can be turned off to save power.



Power Saving Modes

➡ P15

The brightness of the remote controller can be adjusted for better visibility.



Remote Controller Display Brightness Settings

➡ P16

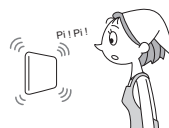
The remote controller can be muted so that it does not emit a tone when a button is pressed.



Muting the Remote Controller

➡ P16

The remote controller can be muted so that it does not emit a tone when an error occurs.



Error Tone Settings

➡ P16

>> Additional Settings

► Draining the water heater (freeze prevention).

➡ P17 "Draining the Water Heater"

► Restoring default remote controller settings.

➡ P17 "Restoring Default Settings"

General Parts

Remote Controller (RC-9018C)

The remote controller will emit a tone when a button is pressed.

Prog Button / Indicator (Red)

Activates the automatic water heater power “ON” or “OFF” setting as determined by the user selected schedule. (☞P13)

Power ON /OFF Button / Indicator (Green)

For turning the water heater on/off.

Alarm Off Button / Indicator (Red)

Stops the tone that is emitted when an error occurs. (☞P25)

Speaker

Display Screen

(☞Next page)

Menu Button

- * Use to change system settings or to return to the home screen.
- * If you press the menu button and press the temperature setting buttons, Sys monitor is sometimes displayed, however, do not use this mode as it meant for installation or service personnel only.

Status Button

Check the status of the system or the number of installed units (☞P6,26)

Remote Controller Part Number

The part number is printed on the surface of the cover.

Lock Button

Locks remote controller operation. (☞P14)

Enter Button

Confirms changes made by the user.

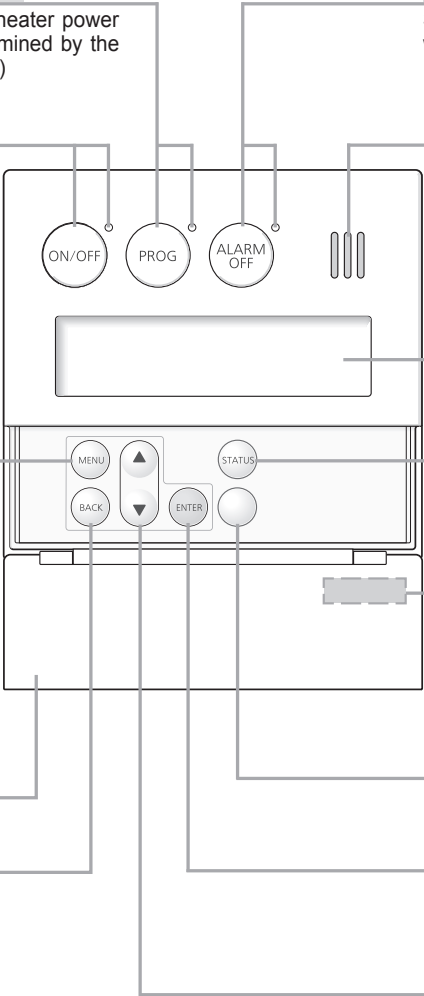
Hot Water Temperature Setting Buttons

For setting the hot water temperature (☞P10), the flow meter alarm, and other settings.

Cover shown in the open position.

Back Button

Returns to the previous screen while making system settings or checking status.



● Screen Display ●

- * The screen display shown below is for illustration purposes only.
The actual display will vary depending on how the water heater is being used.
- * After a button is pressed, the display will gradually become darker to prevent unnecessary power consumption by the remote controller.

Flame Symbol

The flame symbol is displayed during combustion when using hot water or recirculation functions.

Display for Temperature Setting

During normal operation, the set temperature is displayed.

Display for High Temperature Hi temp

Displays when the set temperature is 55°C or higher. (☞P11)

Temperature Setting

(Ex.: 40°C)

Clock Display

(Ex.: AM10:15)

Normally the clock display is not shown when the power ON/OFF button is "OFF".

- * This setting can be changed so that the clock is displayed even when the power button is turned "OFF". (☞P15)

Error Code

A number will flash if a failure occurs. (☞P25)

Display for Recirculation Operation

- * For systems that use recirculation operation, the symbol is displayed when the power ON/OFF button is set to "ON".
- * It is displayed during the recirculation operation. (☞P9)

Locked Display


The lock symbol is displayed when the remote controller is locked. (☞P14)



Recirculation Timer

The clock symbol is displayed when the recirculation timer is activated. (☞P21)

● What is the home screen? ●

The home screen is displayed when the  button is "ON".

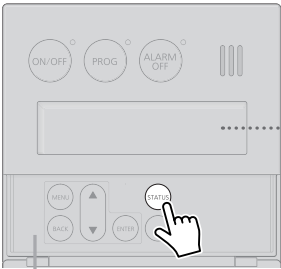
Normally, the hot water temperature and the clock, etc. are displayed.



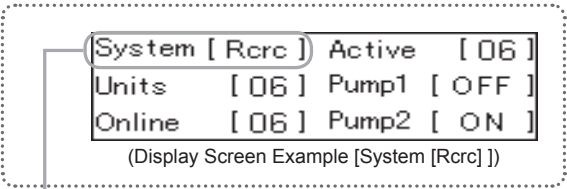
<Home Screen Example>





System Check

If you press the  button, you can check the status of the system



Cover shown in the open position.

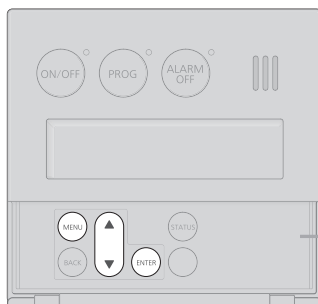


System Displayed on the Remote Controller	System Description
System [Std]	Water heater only operation.
System [Rcrc]	<ul style="list-style-type: none">* Water heater and recirculation operation.* During recirculation operation, hot water is always circulated in the piping to provide instant hot water when a fixture is opened. <p>[If you set the  button to "ON",  is displayed. (If "synchro ON/OFF" is set to "ON". (P18))]</p>
System [Tank]	<ul style="list-style-type: none">* Water heater combined with a storage tank operation.* If a recirculation system is also installed, hot water is always circulated in the piping to provide instant hot water when a fixture is opened. <p>[If you set the  button to "ON",  is displayed.]</p>



Depending on the configuration of your system, not all functions may be used.

General System Diagram		Applicable Remote Controller Functions
* The number of water heaters, fixtures, and pumps will vary depending on the configuration of the hot water system.		
		Functions other than those shown on pages 18 to 21 can be used.
		All functions can be used.
		Functions other than those shown on pages 18 to 23 can be used.

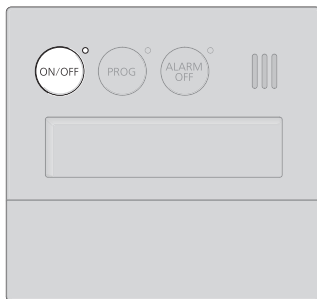


Cover shown in the open position.



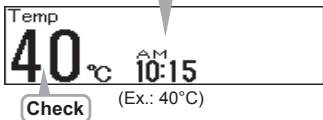


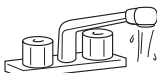

Operation	Screen Display	Description
1 Press the button inside the cover.		* This adjustment can be made regardless of whether the button is ON/OFF.
2 Press the button.		
3 1) Use the buttons to reset the clock. 2) Press the button to complete the clock setting.	1) 2) The screen returns to the previous screen.	* The time changes in 1-minute increments with each press of the button, and then in 10-minute increments if the button is kept pressed down. * If the display is left untouched for approximately 20 seconds without pressing the button, the setting will be completed. When the button is turned ON, the home screen will be restored.

* In the event of a power outage or after disconnecting power to the water heater, when power is restored, the clock on the display screen will show " - : - - " and the clock will need to be reset.

* Normally, when the button is turned OFF, the clock display disappears, but it is possible to display the clock when the button is turned OFF by changing a setting. (P15)

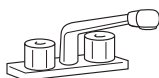



* If System [Tank] is displayed, hot water will be discharged at the temperature of the storage tank.

Operation	Screen Display	Description
1  button is "ON".	<p>For systems with recirculation operation,  is displayed here.</p>  <p>(Ex.: 40°C)</p>	<p>* The  indicator is lit.</p> <p>* The previously set hot water supply temperature is shown. [For systems with recirculation operation]</p> <p>* If you set the  button to "ON", recirculation operation is automatically started. (If "Synchro ON/OFF" was set to "ON" (p.18))</p> <p>* The setting temperature displayed may vary from the actual temperature at the fixture depending on conditions such as season or length of piping.</p>
2 Turn on hot water. 		

● Turn off the hot water

Turn off hot water.



* During operation, the symbol  may be continuously lit.

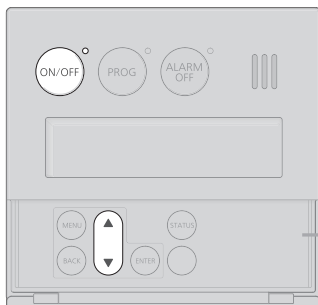
DANGER



To prevent scalding :
Hot Water Heater temperatures over 50°C can cause severe burns instantly or death from scalding.

- Children, disabled and elderly are at the highest risk of being scalded. Feel water temperature before bathing or showering. Temperature limiting valves are available, ask a professional person.
- When setting the unit to 55°C or higher, "Hi temp" will flash for 10 seconds and emit a tone as a high temperature warning.
- Take caution when using the unit again after setting to 50°C or higher. Always check the set temperature before use.
- Do not allow anyone to change the water temperature while hot water is running.


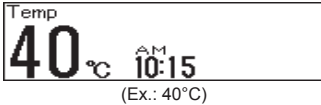


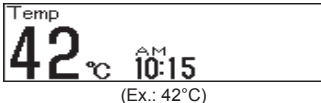
Setting Hot Water Temperature



Cover shown in the open position.



* If System [Tank] is displayed, hot water will be discharged at the temperature of the storage tank.

Operation	Screen Display	Description
1  button is "ON".		* The  indicator is lit. * The previously set hot water supply temperature is shown.
2 Set the temperature using the  buttons inside the cover.		



DANGER



High Temperature

To prevent scalding :
Hot Water Heater temperatures over 50°C can cause severe burns instantly or death from scalding.

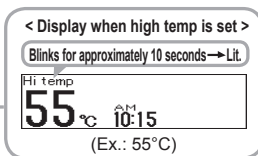
- Children, disabled and elderly are at the highest risk of being scalded. Feel water temperature before bathing or showering. Temperature limiting valves are available, ask a professional person.
- When setting the unit to 55°C or higher, "Hi temp" will flash for 10 seconds and emit a tone as a high temperature warning.
- Take caution when using the unit again after setting to 50°C or higher. Always check the set temperature before use.
- Do not allow anyone to change the water temperature while hot water is running.

● Temperature Setting Options ●

■ When using °C mode: (°C: The temperature settings below are examples. The temperature setting necessary depends on the usage, the length of piping and the time of year.)

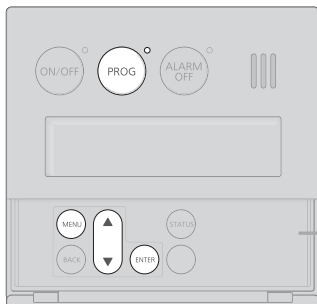
37	38	39	40	41	42	43	44	45	46	47	48	50	55	60	65	70	75	80	85
Washing dishes, etc.				Shower, hot water supply, etc.										High temperature					

*Initial factory setting is 40°C



If fixtures incorporate mixing valves, set the temperature higher than usual.

- * For applications that occasionally require a higher temperature setting, locate the remote controller in a convenient location.
- * Consult local codes for minimum operating temperatures.
- Hot water temperatures shown are approximate and may differ from the actual temperature at the fixture depending on external factors such as the season and length of piping in the system.
- When low temperatures are set (for washing dishes, etc.), if the incoming water temperature is already quite high, it may be difficult to ensure the outgoing water temperature is as per the setting.
- Please check the temperature displayed before using any hot water.
Be especially careful using hot water after the set temperature has been changed.
- When the hot water temperature is adjusted using thermostat controlled water mixing valves, set the temperature on the remote controller approximately 10°C higher than the required temperature to ensure the appropriate fixture temperature.



Cover shown in the open position.



* If you set the time to turn "ON" or "OFF" the button, the button is automatically turned "ON" or "OFF" at the set time every day by just turning the button "ON".

* It is also possible to set only "ON" or "OFF" operation.

* For recirculation systems, circulation is started or stopped according to the button condition, "ON" or "OFF".

Set the time to turn "ON" or "OFF" the button automatically

Operation

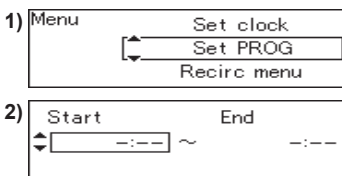
Screen Display

Description

This example describes setting the "ON time" and "OFF time" to 10:00 am and 8:00 pm, respectively.

- Preparation**
1. Check that the current time is properly set.
(Setting the time P.8)
 2. Check the button is set to "OFF"

- 1**
- 1) Press the button inside the cover, Select "Set PROG" using the buttons.

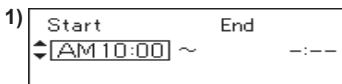


* You can set the time regardless if the button is "ON" or "OFF".

* The previously set "Start time" and "End time" are displayed.

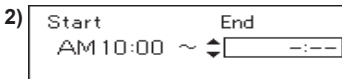
- 2) Press the button.

- 2**
- 1) Set the ON time to "AM10:00" using the buttons.



* The time changes in 10-minute increments with each press of the button, and then in 1-hour increments if the button is kept pressed down.

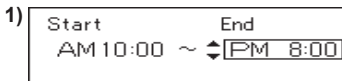
- 2) Press the button to complete the setting.



* If the previous setting is OK, press the button without setting "Start time".

* If you do not want to set the "Start time", select "-:--" (located between AM 11:50 and PM 0:00 settings).

- 3**
- 1) Set the OFF time to "PM8:00" using the buttons.



* The time changes in 10-minute increments with each press of the button, and then in 1-hour increments if the button is kept pressed down.

- 2) Press the button to complete the setting.



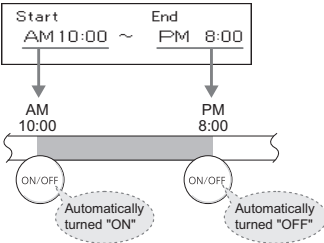
* If the previous setting is OK, press the button without setting "End time".

* If you do not want to set the "End time", select "-:--" (located between AM 11:50 and PM 0:00 settings).

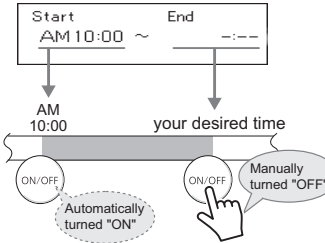
Operation

Hint for operation Following this procedure allows for automated control of water heater operation without user interaction.
* The setting time shown on the display of the remote controller is for example purposes only.

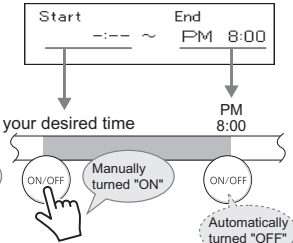
■ **Ex. 1: Both "ON" and "OFF" functions are automated.**






■ **Ex. 2: Only "ON" function is automated.**






■ **Ex. 3: Only "OFF" function is automated.**




Operation	Screen Display	Description
<div><div>4</div><div>Check "Set" is selected, and then press  button to confirm all settings.</div></div>	<div>Set complete</div>	<div><div>* If you do not press , the time setting is not completed.</div><div>* If you want to change "ON/OFF time", select "Reset" and then press the , return to step 2.</div></div>

Activate Automatic Operation

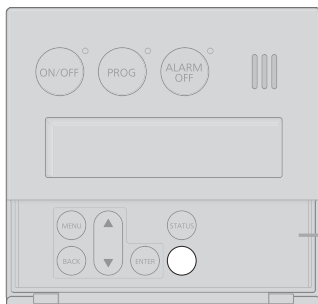
Operation	Screen Display	Description
<div><div>1</div><div> button is "ON".</div></div>	<div><div>Start End</div><div>AM 10:00 ~ PM 8:00</div></div> <div>(Display Example)</div>	<div><div>* You can activate automatic operation regardless if the  button is "ON" or "OFF".</div><div>*  indicator is lit when activated.</div><div>* "Start time" and "End time" will be displayed upon activation.</div><div>* If both the "Start time" and "End time" are set to "-:-", the alarm sounds "Pi Pi Pi" and</div><div><div>Set PROG</div></div><div>is displayed.</div></div>

● To Deactivate Automatic Operation

<div><div> button is "OFF".</div></div>	<div><div>* The  indicator is unlit.</div></div>
--	---

- * If the  button is not set to "OFF", the water heater will automatically turn "ON" or "OFF" at the set times.
- * If there is a power failure or power is disconnected to the water heater, automatic operation will be deactivated.















Locking the Remote Controller




Cover shown in the open position.



By locking the remote controller, the settings cannot be accidentally changed if a button is pressed by mistake.

Operation	Screen Display	Description
1 Press and hold  button for approximately 2 seconds to lock the remote controller.	<div>Lock complete</div> <div>[PROG]  [MENU] </div> <div>[Temp] </div>	<ul style="list-style-type: none"> * The operation can be locked regardless if the  button is "ON" or "OFF". * The operations of , , and  buttons are locked. * Approximately 3 seconds after locking the remote controller, the display will return to the previous screen.
If you press these buttons    while the remote controller is locked, the "Locked" screen will appear.	<div>Locked</div> <div>[PROG]  [MENU] </div> <div>[Temp] </div>	<ul style="list-style-type: none"> * Approximately 3 seconds after the "locked" screen appears, the display will return to the previous screen.

● To Unlock the Remote Controller

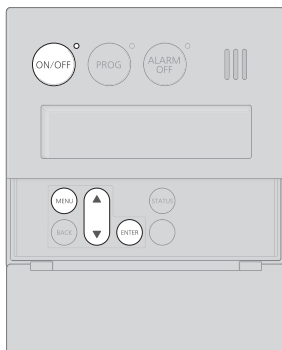
Press and hold  button for approximately 2 seconds to unlock the remote controller.

Unlock complete

[PROG] [MENU]

[Temp]

* Approximately 3 seconds after unlocking the remote controller, the display will return to the previous screen.



Adjusting the Maximum Output Temperature.

The maximum output temperature can be limited to prevent discharging hot water at too high of a temperature.

- 1** button is "OFF".
- 2** Press the button inside the cover, Select **Misc settings** using the buttons.
Press the button.
The "Misc settings" screen appears.
- 3** Select **Max set temp** using the buttons, and then press the button.

- 4** Change the setting using the buttons.

Max set temp
↓ [85 °C]

(Ex: 85°C)

37 - 48°C (In 1°C intervals),
50 - 85°C (In 5°C intervals)

(Initial setting=85°C)

Setting completed

Display Screen Power Saving Mode [powersave dspy]

To conserve power consumption by the display, it can be turned off completely or set to only display the clock when the power ON/OFF button is turned "OFF".

- 1** Press the button inside the cover, Select **Misc settings** using the buttons.
Press the button.
The "Misc settings" screen appears.

- 2** Select **Powersave dspy** using the buttons, and then press the button.

- 3** Change the setting using the buttons.

Powersave dspy (Clock hidden)
⌂ [No-1]

(Ex: No-1)

Yes: the display will turn off and the clock will not be displayed when the power ON/OFF button is turned "OFF".

No-1: the display will not turn off and the clock will not be displayed when the power ON/OFF button is turned "OFF".

No-2: the display will not turn off and the clock is displayed when the power ON/OFF button is turned "OFF".

(Default setting=No-1)

Setting completed

To change other settings, select the option and press the button.

To return to the home screen, press the button or let it sit for approximately 20 seconds.



Adjusting the brightness of the display screen when the remote controller is turned on.


The display screen can be brightened or darkened or the backlight can be turned off completely.

1 Press the  button inside the cover, Select **Misc settings** using the  buttons.

Press the  button.

The "Misc settings" screen appears.

2 Select **Brightness** using the  buttons, and then press the  button.

3 Change the setting using the  buttons.



(Ex: Normal)

Dark / Dim / Normal / Bright

(Default setting=Normal)

Setting completed



Muting the remote controller.


The remote controller can be muted so that it does not emit a tone when a button is pressed.

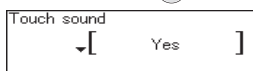
1 Press the  button inside the cover, Select **Misc settings** using the  buttons.

Press the  button.

The "Misc settings" screen appears.

2 Select **Touch sound** using the  buttons, and then press the  button.

3 Change the setting using the  buttons.



(Ex: Yes)

Yes / No

(Default setting=Yes)

Setting completed

<System dependent option>



Error Tone Settings.


The remote controller can be muted so that it does not emit a tone when an error occurs.

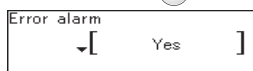
1 Press the  button inside the cover, Select **Misc settings** using the  buttons.

Press the  button.

The "Misc settings" screen appears.

2 Select **Error alarm** using the  buttons, and then press the  button.

3 Change the setting using the  buttons.



(Ex: Yes)

Yes / No

(Default setting=Yes)

Setting completed

To change other settings, select the option and press the  button.


To return to the home screen, press the  button or let it sit for approximately 20 seconds.



Draining the Water Heater.


(☞ Refer to "Preventing Damage from Freezing" as shown in the Owner's Guide provided with the water heater.)

1  button is "OFF".

2 Press the  button inside the cover, Select **Misc settings** using the  buttons.

Press the  button.
The "Misc settings" screen appears.

3 Select **Drain water** using the  buttons, and then press the  button.

4 Select "YES" using the  buttons.


No	Drain water
<input type="checkbox"/>	now ?
Yes	

Press the  button.

Follow the drain procedures in the manual

Drain the water heater following the procedures described in the Owner's Guide provided with the water heater.



To stop draining water from the water heater


If you press the  button again when "Drain water" and "Operating" are alternately displayed following steps 2 to 3, the drain function will stop.



Restoring Default Settings.


Select settings can be restored to the factory default conditions. See items marked with a ★ in the "Default Settings" section (☞ P27).

1  button is "OFF".


2 Press the  button inside the cover, Select **Misc settings** using the  buttons.

Press the  button.
The "Misc settings" screen appears.

3 Select **Default all settings** using the  buttons, and then press the  button.

4 Select "YES" using the  buttons.

No	Default all settings
<input type="checkbox"/>	now ?
Yes	Press/hold

Press and hold the  button for approximately 5 seconds.

Reset complete

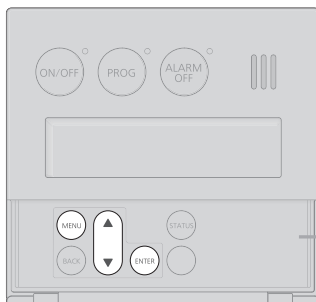
==== **Setting completed** =====



To change other settings, select the option and press the  button.

To return to the home screen, press the  button or let it sit for approximately 20 seconds.

Enabling Automatic Recirculation Operation



Cover shown in the open position.

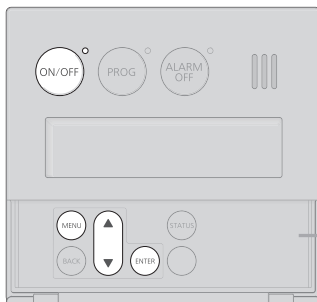


- * To check system status. (P6)
- * When "synchro ON/OFF" is set to "No", recirculation can be activated manually.
- * To change "synchro ON/OFF" from "No" to "Yes", follow the same procedure as described below.

Operation	Screen Display	Description
1 1) Press the button inside the cover, Select "Recirc menu" using the buttons. 2) Press the button.	1) Menu Set clock Set PROG Recirc menu 2) Recirc Menu Synchro ON/OFF Recirc on/off Recirc timer	* This adjustment can be made regardless of whether the button is ON/OFF.
2 Select "Synchro ON/OFF" and press the button.	Synchro ON/OFF Yes	
3 1) Press . 2) Press the button.	1) Synchro ON/OFF No 2) Set complete	* If the display is left untouched for approximately 20 seconds without pressing the button, the setting will be completed, and when the button is turned ON, the home screen will be restored.

The screen returns to the previous screen.











Manually Stopping Recirculation Operation




Cover shown in the open position.

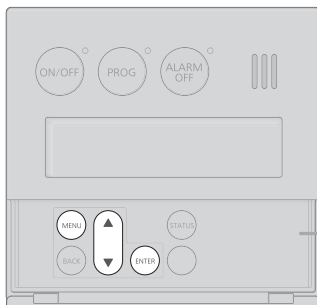


Recirculation operation can be manually stopped or started using this procedure.

Operation	Screen Display	Description
1 1) Press the  button inside the cover, Select "Recirc menu" using the  buttons. 2) Press the  button.	1) Menu Set clock Set PROG  Recirc menu 2) Recirc  Synchro ON/OFF Menu Recirc on/off Recirc timer	* You can set this function if the  button is "ON".
2 1) Select "Recirc on/off" using the  buttons. 2) Press the  button.	1) Recirc Synchro ON/OFF Menu  Recirc on/off Recirc timer 2) Stopping recirc operation [Display when recirculation is set to "OFF"] The screen returns to the previous screen.	* If the display is left untouched for approximately 20 seconds without pressing the  button, the setting will be completed. [Display when the recirculation is set to "ON"] Starting recirc operation

* Even if recirculation is set to "OFF", recirculation operation is restarted by either turning the  button "ON", when the water heater is turned ON automatically (P12) or when the recirculation timer (P20) is active.

Setting the Recirculation System



Cover shown in the open position.



- * With the recirculation operation timer set, hot water will be automatically circulated in the hot water pipes. Even with this function activated, it may take several minutes for hot water to be completely circulated through the plumbing system. Set the timer to activate the recirculation system prior to the first use of hot water to ensure hot water is instantly available.
- * Multiple recirculation time periods can be set.
- * Until the timer is deactivated (P21), the recirculation system will operate daily at the set times.
- * When the recirculation system is turned "OFF" by the timer, the water heater will still remain "ON" and can be used normally.

Operation

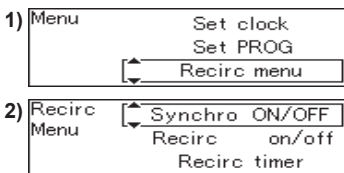
Screen Display

Description

This example describes setting the recirculation system to operate between 5:00 am - 8:00 am.

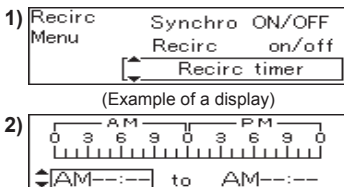
Preparation Check that the current time is properly set.
(Setting the time P.8)

- 1**
- 1) Press the **MENU** button inside the cover, Select "Recirc menu" using the **▲** **▼** buttons.
 - 2) Press the **ENTER** button.



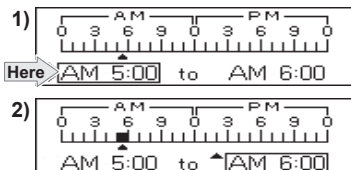
* You can set the timer regardless if the **ON/OFF** button is "ON" or "OFF".

- 2**
- 1) Select "Recirc timer" using the **▲** **▼** buttons.
 - 2) Press the **ENTER** button.



* The previous setting is displayed.

- 3**
- 1) Select "AM5:00" using the **▲** **▼** buttons.
 - 2) Press the **ENTER** button to complete the "Start" time setting.









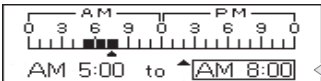

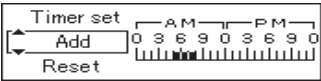
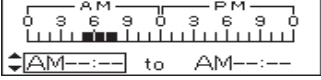

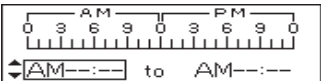






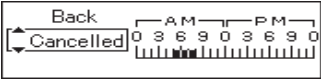
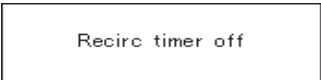

* Every time when you press the button, the time changes by one hour.

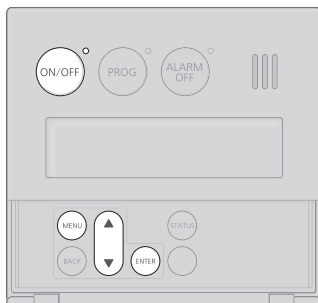
[To keep the current "Start" time]
Press the **ENTER** button without changing the "Start" time, and proceed to step 4.

[To add additional time periods to the current setting, or to cancel the previous setting]

- 1) Press the **ENTER** button without setting "Start" time.
- 2) Press the **ENTER** button without setting "End" time.
- 3) Follow the procedures "Adding Additional Time Periods" or "Resetting All Time Periods" (P21).

Operation Timer

Operation	Screen Display	Description
<div>4</div> <div>1) Select "AM8:00" using the  buttons.</div> <div>2) Press the  button to complete the "End" time setting.</div> <div><Adding Additional Time Periods></div> <div>1) Select "Add" using the  buttons.</div> <div>2) Press the  button.</div> <div>3) Select the time period following the procedures in Steps 3 to 4.</div> <div><Resetting All Time Periods></div> <div>1) Select "Reset" using the  buttons.</div> <div>2) Press the  button.</div> <div>(All settings are cleared.)</div> <div>3) Adjust the time period following the procedures in Steps 3 to 4.</div>	<div>1) </div> <div>2) </div> <div>1) </div> <div>2) </div> <div>1) </div> <div>2) </div>	<div>* Every time when you press the button, the time changes by one hour. [To keep the current "End" time] Press the  button without changing the "End" time, and proceed to step 5.</div> <div>* You can set multiple operation time periods.</div>
<div>5</div> <div>Press the  button to complete the time settings.</div>	<div>Set complete</div> <div>"Recirc timer" and "Recirc timer on" are alternately displayed on the menu (approximately 10 seconds)</div> <div></div> <div>(Example of home screen when the power ON/OFF button is turned "ON")</div>	<div>* The timer will not activate without pressing the  button.</div> <div>* If the time is not set, the time setting screen is displayed (P8).</div> <div>* Until the timer is deactivated, the recirculation system will operate daily at the set "Start" and "End" times.</div>
<div>● To Cancel the Recirculation System Operation Timer</div> <div>1) Carry out steps 1 to 2.</div> <div>2) Select "Cancelled" using the  buttons.</div> <div>3) Press the  button.</div>	<div>1) </div> <div>2) </div> <div>The screen returns to the Recirc Menu.</div>	<div>* If the  button is "ON", the screen returns to the home screen in approximately 10 seconds.</div> <div>* If the timer is deactivated during a recirculation time period, recirculation will continue until it is stopped using the procedure shown on P19.</div>



If the flow meter alarm is being used to indicate when water delivery volume is reached to the preset volume.

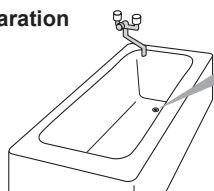
- If any hot water is being used besides what is going into the tub, the alarm will sound before the tub is full.
- If there was water in the tub before the fill began, or if the water is not shut off manually when the alarm sounds, the tub may overflow.
- If there was water in the tub before the fill began, the temperature in the tub after it is full may be different from the temperature setting.

Operation

Screen Display

Description

Preparation



Confirm that the stopper is closed.

1

button is "ON".

Temp
42 °C PM 7:00
Check (Ex: Home screen)

* The indicator is lit.

* The current setting temperature is displayed.

2

1) Press the button inside the cover, Select "Flow meter" using the buttons.

1) Menu Flow meter
Misc settings
Sys monitor

2) Press the button.

2) Flow meter
↓ [Alarm off]
(Ex: Alarm off)

* The current hot water filling volume is displayed.

3

Adjust the Flow Meter Alarm volume setting

1) Change the volume with your desired hot water volume.

1) Flow meter
⇄ [180 L]
(Ex: 180 L)

2) Press the button.

2) Set complete

* The set hot water volume will be stored in memory.

* The screen returns to the home screen.

* If the display is left untouched for approximately 20 seconds without pressing the button, the setting will be completed and the home screen will be restored.

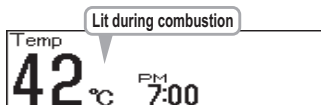
● Fill Volume Options ●

(L)

40	60	80	100	120	140	160	180	200	220	240	260	300	340	380	Alarm off
----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----------

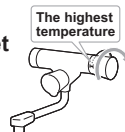
(Default setting = Alarm off)

4 Turn on hot water.



If the hot water temperature has been set so that it does not require mixing, set the mixing valve to its highest setting.

The hot water in the bathtub may become lukewarm if it is mixed with cold water at the fixture.



5 When water delivery volume reached to the preset volume of water, an alarm will sound alerting you to shut off the water.



Please turn off
hot water faucet

* Why doesn't the flow meter alarm sound even if the water delivery volume reached to the preset volume.

* The alarm will continue to sound even if the  button is pressed.

Turn off the hot water when the alarm sounds to prevent overfilling.



● Hot Water Filling Temperature Options ●

(°C) : The temperatures settings below are only examples. The temperature setting necessary will depend on the usage, the length of piping and the time of year.)

37	38	39	40	41	42	43	44	45	46	47	48
Warm			Warmer			Hot					

* Initial factory setting: 40°C


* Although the temperature can be set to 50°C or higher, do not set the temperature to 50°C or higher as it can cause severe burns instantly or death from scalding.

* The hot water filling temperature is same as the setting temperature.

* The setting temperature displayed may vary from the actual temperature at the fixture depending on conditions such as season or length of piping.

Troubleshooting

★ This section only covers issues with the remote controller.
To diagnose issues with the water heater, consult the Owner's Guide supplied with the water heater.

Remote Controller		Problem	Possible Cause	Action
		The power ON/OFF indicator does not light up	There has been a power failure. The power plug is disconnected.	Wait for power to be restored. Check the power plug.
		The clock display shows "- : - -"	If the time is not displayed on the clock, either a power failure has occurred or power was disconnected resulting in the display showing "- : - -".	Set the clock again. P8
		The flow meter alarm does not sound or it sounds before the bathtub has been filled to the set amount.	The flow meter alarm is set to sound when hot water is continuously discharged for the set volume of water. If hot water is used for other fixtures while filling the bathtub, the alarm will sound before the tub is full. If mixing valves are used, or if cold water is mixed with hot water at the fixture, the tub will fill more than the setting of the flow meter alarm.	An error has not occurred. An error has not occurred.
		The setting cannot be changed when a button is pressed.	The remote controller is locked. While the remote controller is locked these buttons  cannot be used.	Unlock the remote controller. P14
		[For recirculation systems] Flame symbol lights up or goes out	During recirculation operation, the water heater will turn on and off to keep the hot water pipes up to temperature.	An error has not occurred.



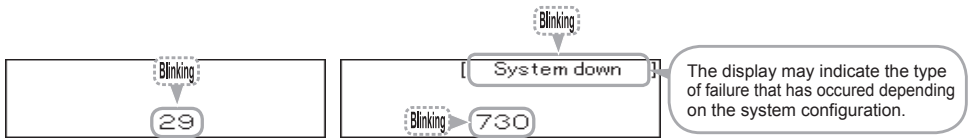
Checking for Error Conditions

When a failure occurs, information relating to the error blinks on the display.

The error alarm may also continuously sound.

For additional details on the cause of the error displayed, refer to the "Troubleshooting" section in the Owner's Guide provided with the water heater.

● Error Code Display Screen ●



● To Stop the Error Alarm ●

Press the  button (the indicator will turn off).

Follow-up Service

Requesting Service





- * Service and warranty periods are based on the type of product and the application type. Refer to the Limited Warranty provided with the water heater for complete details.
- * Refer to the "Troubleshooting" section in this manual as well as the Owner's Guide supplied with the water heater. If the problem is not corrected, please contact Dux Service Department at 1300 365 115 (Australia) or 0800 729 389 (New Zealand).

● If an error code is displayed, the model name and code can be checked ●


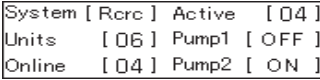




< Ex:Error code >

* If more than one water heater is installed, this procedure cannot be used.

Operation	Screen Display	Description
1 Press the  button.	 Model Model code [] Model code Product name of water heater is displayed	
2  button is pushed again. (Return to previous screen.)	 <Screen display (Example)>	* If the display is left untouched for approximately 60 seconds, it will return to the previous screen.

● Press the button to check the status of the system ●



Operation	Screen Display	Description
1 Press the  button inside the cover.	 <Screen display (Example)>	<p>* Status can be checked regardless of whether the  button is ON/OFF.</p> <p>* If the  button is pushed or it is left untouched for approximately 10 minutes, it will return to the previous screen.</p>

● Identifying units that require service (system dependent).

Press the  button twice inside the cover.



<Screen display (Example)>

* If you press the  button, the screen of step 1 is displayed.
If you press the  button, the screen returns to the previous screen.

Default Settings

Items	Default setting
Clock display (unset)	--:--
Hot water temperature	40°C
Hot water volume	alarm off

Customizable Settings (☞ P15 - 17)	Default setting	
Maximum Output Temperature	85°C	★
"Powersave dsply" and clock display	No-1	★
Brightness of the display screen when the remote controller is turned on.	Normal	★
Operation sound of remote controller	Yes	★
Notification when a failure is generated	Yes	★

★ Indicates an item that can be restored to default.
See P17 "Restoring Default Settings".