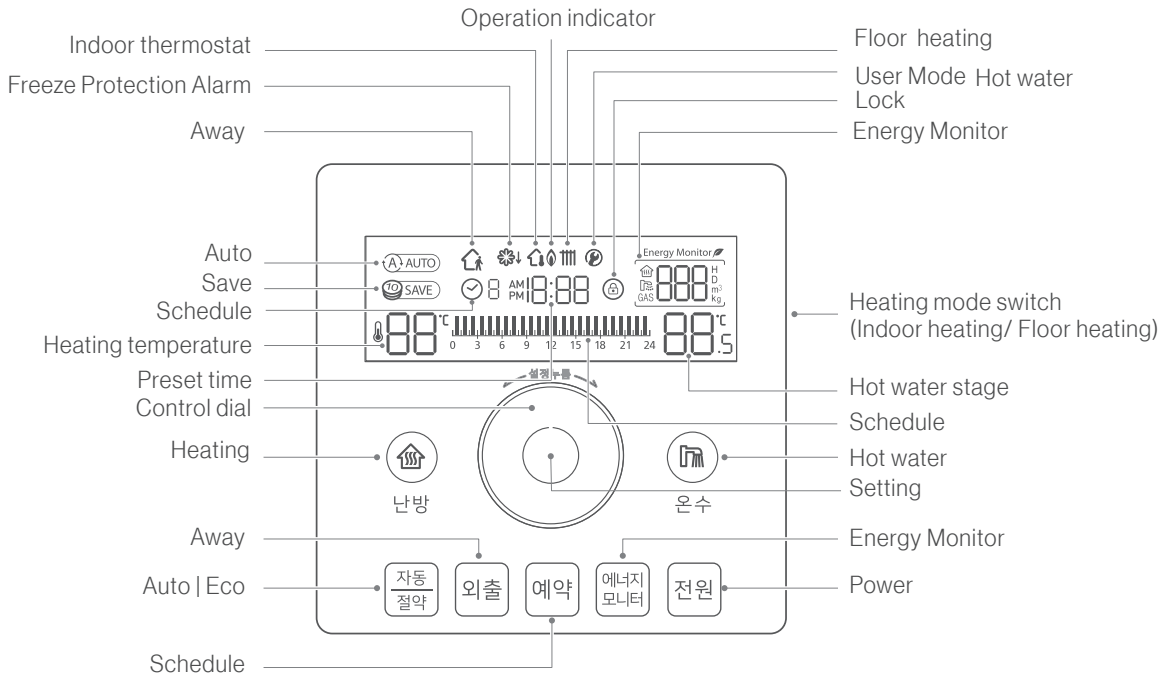


# How to use the gas boiler

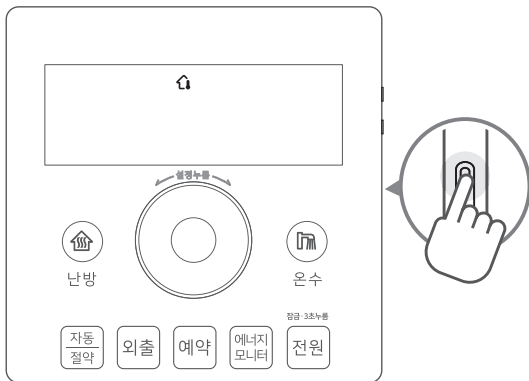
## Indoor Thermostat



### • Heating Mode

[Indoor heating mode] or [floor heating mode] can be selected regarding the environment. Upon purchase, the default is the indoor heating mode (🏠).

	<p><b>Indoor heating mode</b> Indoor temperature sensor detects room temperature and controls the temperature.</p>		<p><b>Floor heating mode</b> Floor temperature sensor detects water temperature from a boiler and controls the floor temperature.</p>
-------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------

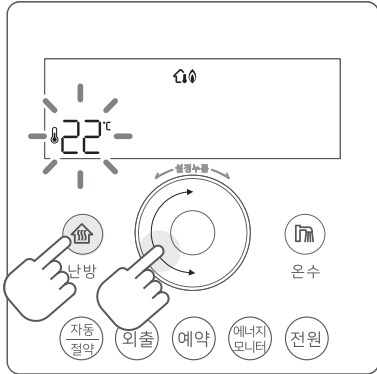


### 1. When power is on, press the [heating mode switch] button.

- (🏠) Indoor heating mode ↔ (🔥) Floor heating mode can be switched.

# Heating / Quick Heat

## Heating



### 1. When power is on, press the [heating] button to turn on the heating system.

- The heating temperature blinks on the LCD.
- If the heating button is pressed when the system is on, it will be turned off.

### 2. Turn the control dial to set your desired temperature.

- If the current temperature is lower than the set temperature, the combustion indicator (🔥) on the LCD turns on.

## Quick Heat

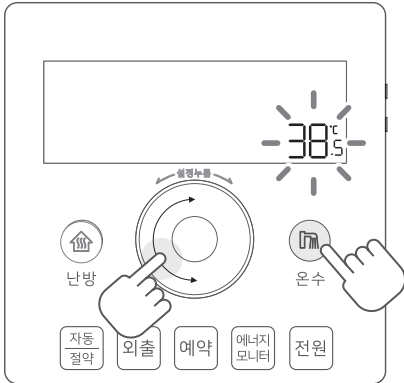


### 1. When power is on, press the [heating] button to turn on the heating system.

### 2. Press and hold the [Heat] button for at least 3 seconds.

- Heating is set to the highest temperature, and Start (🔥) flashes on the indoor temperature control LCD display.
- If the set temperature changes during heating or you press and hold the [Heat] button for at least 3 seconds, Quick Heat is turned off.

## Hot water



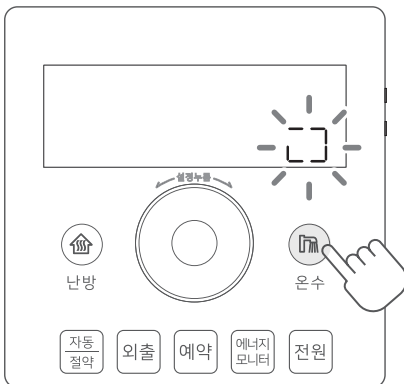
### 1. When power is on, press the [hot water] button to turn on the hot water system.

- The hot water temperature blinks on the LCD.
- Press the [Hot Water] button while in operation to stop hot water.

### 2. Turn the control dial to set your desired temperature.

- With heating and hot water both on, press the [Hot Water] button to set your desired temperature when the hot water temperature blinks.
- You can only change from between 30°C to 55°C while hot water is in use. To change to 60°C, press the Higher button while the hot water tap is off.

## Preheat Water



### 1. When power is on, press the [hot water] button to turn on the hot water system.

### 2. Press and hold the [Hot Water] button for at least 3 seconds.

- The circulation indicator flashes on the hot water temperature display, and preheating begins.
- Turn on the hot water tap while operating or press and hold the [Hot Water] button for at least 3 seconds to turn off hot water preheating.

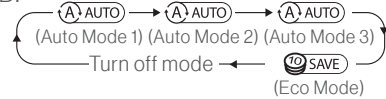
# Auto | Eco / Away / Schedule Mode

## Auto | Eco Mode



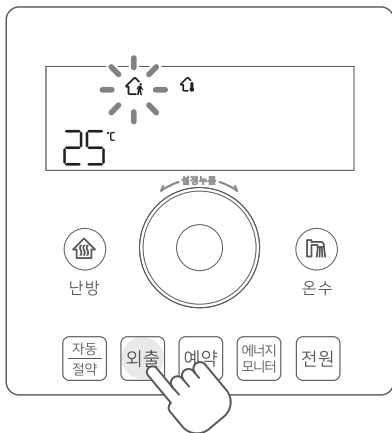
### 1. Press the [Auto | Eco] button while the power is on to select a mode.

- The auto indicator ( **A> AUTO** ) blinks on the LCD.



- You cannot set the heating temperature or hot water temperature in auto mode.
- Each time the [Auto | Eco] button is pressed, the mode changes.
- When the away button is pressed during the save mode, the save mode turns into the away mode.
- When the save button is pressed during the mode, the save mode will be turned off.

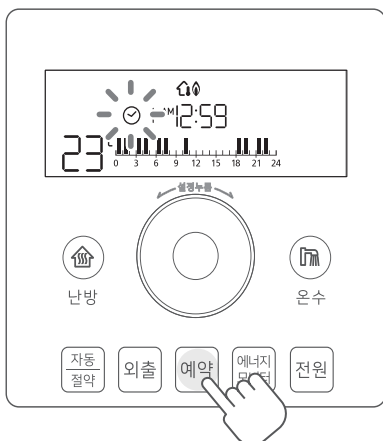
## Away mode



### 1. When power is on, press the [away] button to turn on the away mode.

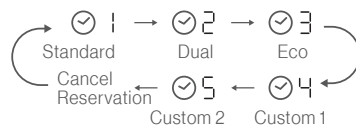
- ( ) will be displayed.
- The minimum temperature heating system will be turned on every 4 hours to keep the pleasant room temperature.
- If the away or heating button is pressed when the mode is on, the away mode will be turned off.

## Schedule mode



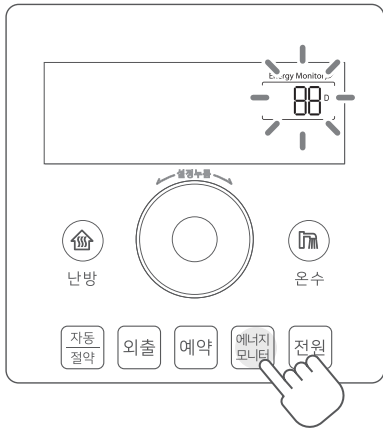
### 1. When power is on, press the [schedule] button to preset time.

- ( ) will be displayed.
- Press the [schedule] button to change the reservation number.




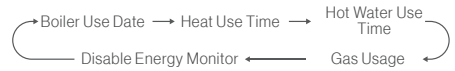
- Press the [schedule] button while operating to disable reservation mode.


# Energy Monitor



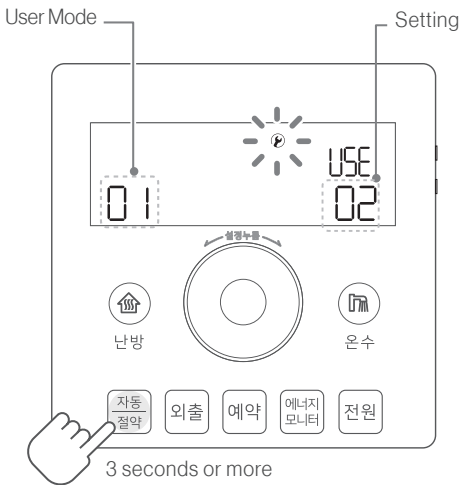
## 1. Press the [Energy Monitor] button while power is off to select your desired item.

- The energy monitor indicator (  ) on the LCD is on.
- Each time the [Energy Monitor] button is pressed, all energy information changes.




- Press and hold the [Energy Monitor] button for at least 3 seconds. (  ) blinks on the LCD and information is reset.

# Control LED brightness / Turn button and notification sounds on or off / Control volume

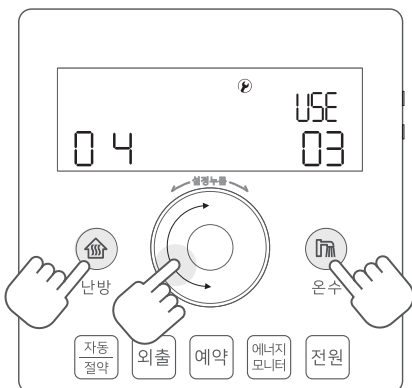


## 1. Press and hold the [Auto|Eco] and [Out] buttons for at least 3 seconds while the power is off.

- The service mode indicator (  ) on the LCD is on.

## 2. Turn the control dial to select your desired user mode.

- 01: LED brightness
- 02: Button sound control
- 03: Notification sound control (including error notifications and freeze warnings)
- 04: Voice information volume control (change separately regardless of button and notification sound volume)



## 3. Press the [Hot Water] button after selecting a feature to set it as you wish.

- 01: Stage 1
- 02: Stage 2
- 03: Stage 3
- 04: Stage 4
- 05: Stage 5
- 0n: On
- 0F: Off

## 4. After setup, press the [Heat] button to stop user mode.

# Lock Function



**1. When power is on, press and hold the [power] button for more than 3 seconds to lock.**

- The icon (🔒) will be displayed.
- When the power or heating button is pressed for more than 3 seconds, the lock will be unlocked.

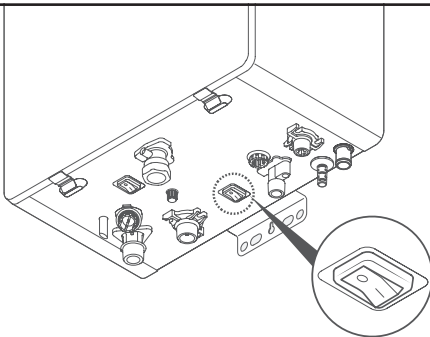
## • Control Display



### Freeze Protection Alarm

It will be displayed when a heating pump is turned on for freeze protection.

# Emergency Operation

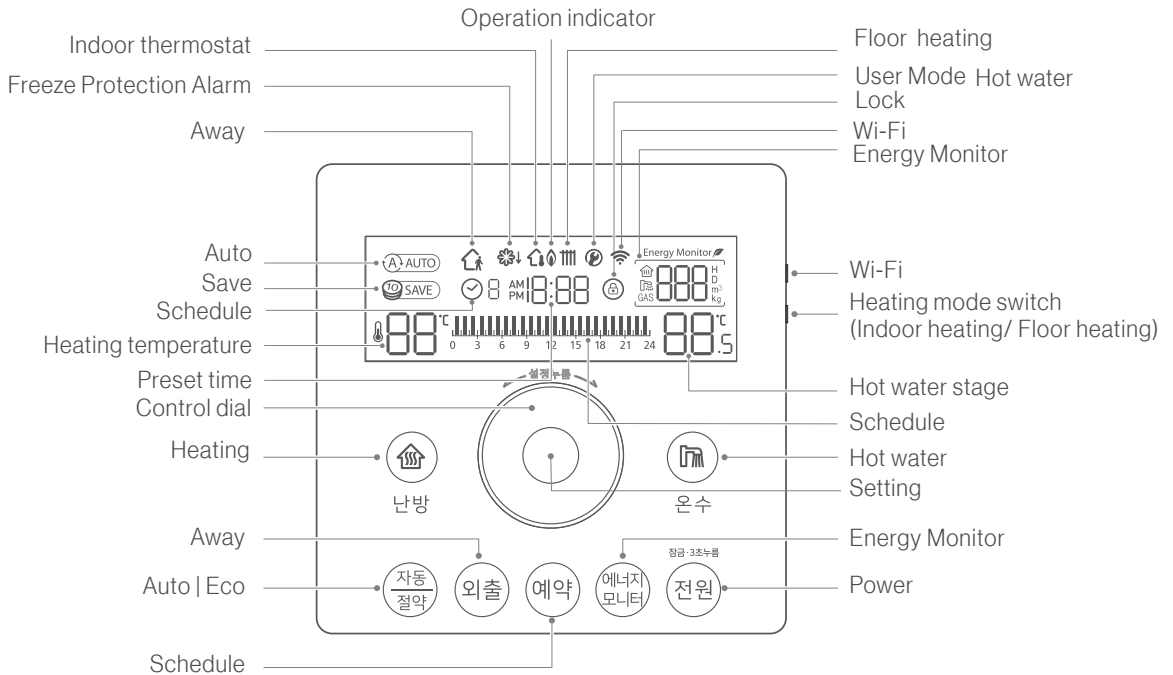


**1. Press the [Emergency Operation] switch on the bottom of the boiler.**

- Emergency operation of the boiler is possible if the indoor temperature controller is malfunctioning or not connected.

# How to use the gas boiler

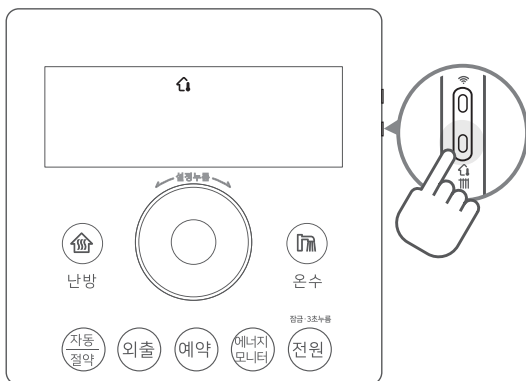
## Indoor Thermostat



### • Heating Mode

[Indoor heating mode] or [floor heating mode] can be selected regarding the environment. Upon purchase, the default is the indoor heating mode (🏠).

 <p><b>Indoor heating mode</b> Indoor temperature sensor detects room temperature and controls the temperature.</p>	 <p><b>Floor heating mode</b> Floor temperature sensor detects water temperature from a boiler and controls the floor temperature.</p>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

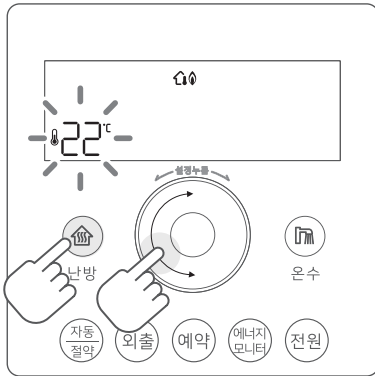


### 1. When power is on, press the [heating mode switch] button.

- (🏠) Indoor heating mode ↔ (🔥) Floor heating mode can be switched.

# Heating / Quick Heat

## Heating



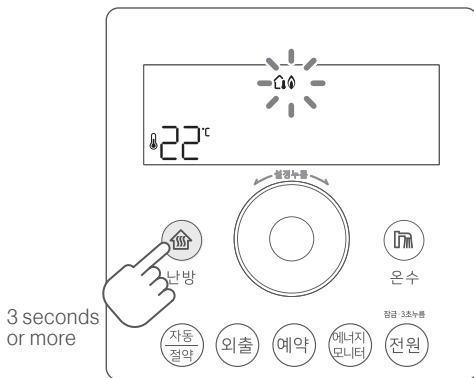
### 1. When power is on, press the [heating] button to turn on the heating system.

- The heating temperature blinks on the LCD.
- If the heating button is pressed when the system is on, it will be turned off.

### 2. Turn the control dial to set your desired temperature.

- If the current temperature is lower than the set temperature, the combustion indicator (🔥) on the LCD turns on.

## Quick Heat



### 1. When power is on, press the [heating] button to turn on the heating system.

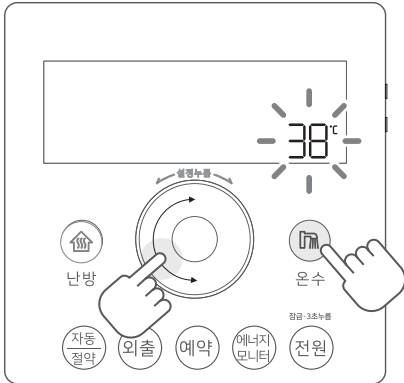
### 2. Press and hold the [Heat] button for at least 3 seconds.

- Heating is set to the highest temperature, and Start (🔥) flashes on the indoor temperature control LCD display.
- If the set temperature changes during heating or you press and hold the [Heat] button for at least 3 seconds, Quick Heat is turned off.



# Hot water / Preheat Water

## Hot water



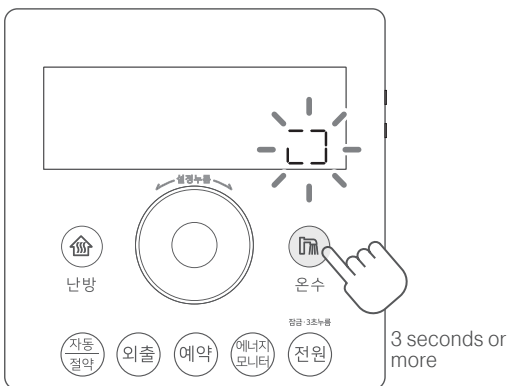
### 1. When power is on, press the [hot water] button to turn on the hot water system.

- The hot water temperature blinks on the LCD.
- Press the [Hot Water] button while in operation to stop hot water.

### 2. Turn the control dial to set your desired temperature.

- With heating and hot water both on, press the [Hot Water] button to set your desired temperature when the hot water temperature blinks.
- You can only change from between 30°C to 55°C while hot water is in use. To change to 60°C, press the Higher button while the hot water tap is off.

## Preheat Water



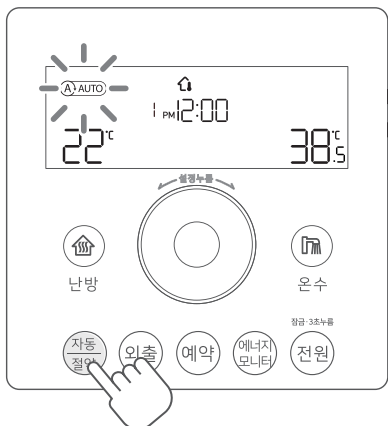
### 1. When power is on, press the [hot water] button to turn on the hot water system.

### 2. Press and hold the [Hot Water] button for at least 3 seconds.

- The circulation indicator flashes on the hot water temperature display, and preheating begins.
- Turn on the hot water tap while operating or press and hold the [Hot Water] button for at least 3 seconds to turn off hot water preheating.

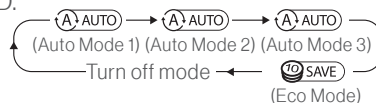
# Auto | Eco / Away / Schedule Mode

## Auto | Eco Mode



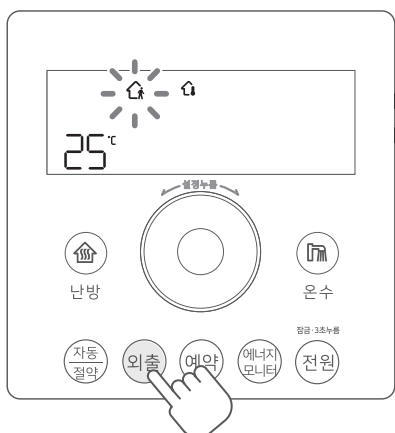
### 1. Press the [Auto | Eco] button while the power is on to select a mode.

- The auto indicator ( **A AUTO** ) blinks on the LCD.



- You cannot set the heating temperature or hot water temperature in auto mode.
- Each time the [Auto | Eco] button is pressed, the mode changes.
- When the away button is pressed during the save mode, the save mode turns into the away mode.
- When the save button is pressed during the mode, the save mode will be turned off.

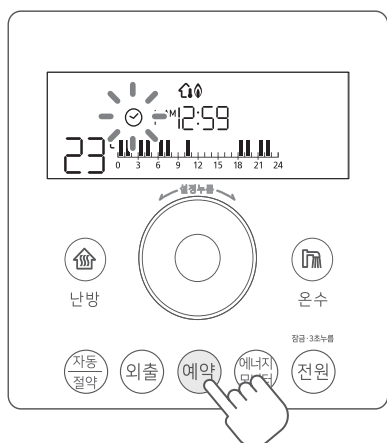
## Away mode



### 1. When power is on, press the [away] button to turn on the away mode.

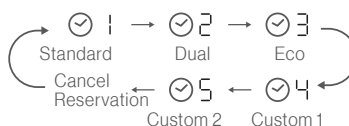
- ( ) will be displayed.
- The minimum temperature heating system will be turned on every 4 hours to keep the pleasant room temperature.
- If the away or heating button is pressed when the mode is on, the away mode will be turned off.

## Schedule mode



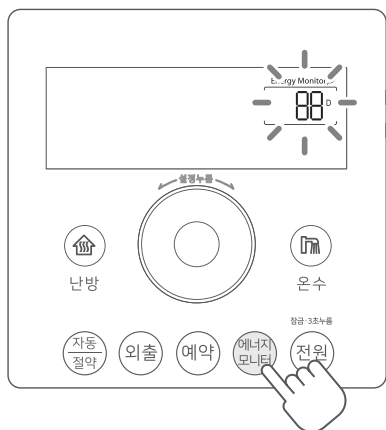
### 1. When power is on, press the [schedule] button to preset time.

- ( ) will be displayed.
- Press the [schedule] button to change the reservation number.




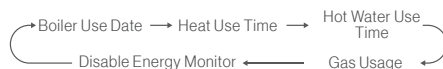
- Press the [schedule] button while operating to disable reservation mode.


# Energy Monitor



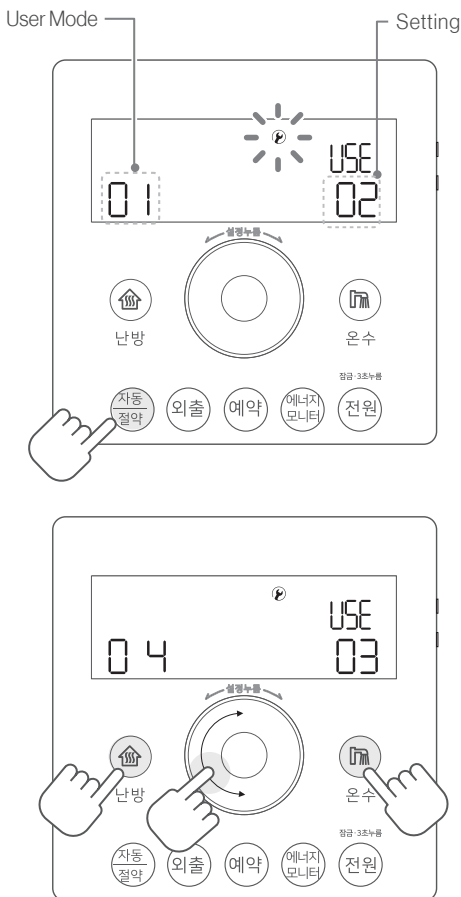
## 1. Press the [Energy Monitor] button while power is off to select your desired item.

- The energy monitor indicator (  ) on the LCD is on.
- Each time the [Energy Monitor] button is pressed, all energy information changes.



- Press and hold the [Energy Monitor] button for at least 3 seconds. (  ) blinks on the LCD and information is reset.

# Control LED brightness / Turn button and notification sounds on or off / Control volume



## 1. Press and hold the [Auto/Eco] and [Out] buttons for at least 3 seconds while the power is off.

- The service mode indicator (  ) on the LCD is on.

## 2. Turn the control dial to select your desired user mode.

- 01: LED brightness
- 02: Button sound control
- 03: Notification sound control (including error notifications and freeze warnings)
- 04: Voice information volume control (change separately regardless of button and notification sound volume)

## 3. Press the [Hot Water] button after selecting a feature to set it as you wish.

- 01: Stage 1
- 02: Stage 2
- 03: Stage 3
- 04: Stage 4
- 05: Stage 5
- 0n: On
- 0F: Off

## 4. After setup, press the [Heat] button to stop user mode.

# Lock Function

---



## 1. When power is on, press and hold the [power] button for more than 3 seconds to lock.

- The icon (🔒) will be displayed.
- When the power or heating button is pressed for more than 3 seconds, the lock will be unlocked.

---

### • Control Display



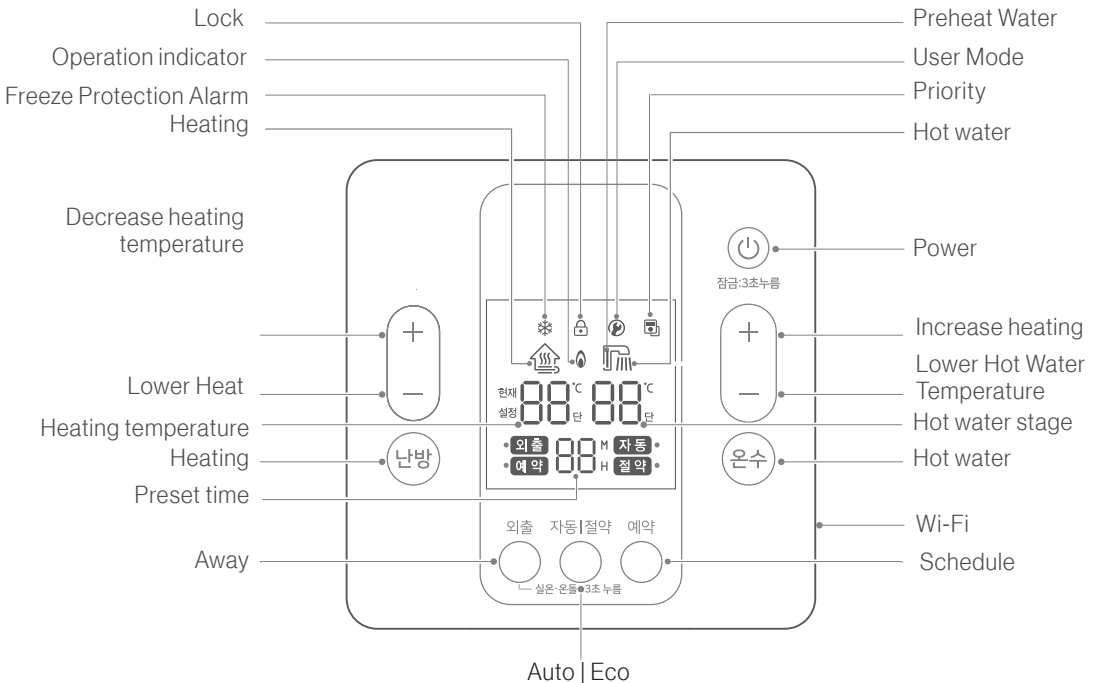
#### Freeze Protection Alarm

It will be displayed when a heating pump is turned on for freeze protection.


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# How to use the gas boiler

## Indoor Thermostat



### • Heating Mode

[Indoor heating mode] or [floor heating mode] can be selected regarding the environment. Upon purchase, the default is the indoor heating mode (  ).



#### Indoor heating mode

Indoor temperature sensor detects room temperature and controls the temperature.





#### Floor heating mode

Floor temperature sensor detects water temperature from a boiler and controls the floor temperature.



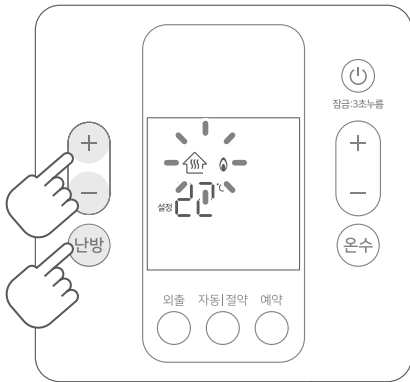
**1. When power is on, press and hold the [Away] button for at least 3 seconds.**

- (  ) Indoor heating mode ↔ (  ) Floor heating mode can be switched.

# Heating / Quick Heat

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## Heating



### 1. When power is on, press the [heating] button to turn on the heating system.

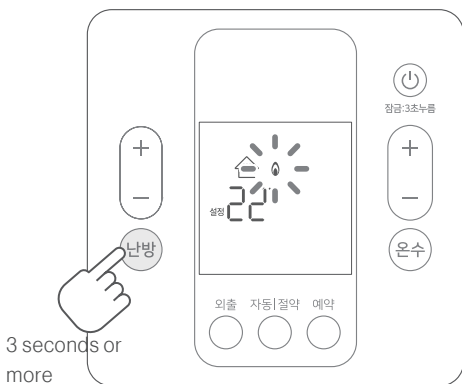
- When the boiler is working, the combustion indicator (🔥) is on and the heating indicator (🌊) blinks.
- If the heating button is pressed when the system is on, it will be turned off.

### 2. Set the desired temperature with the [up] and [down] buttons.

- If the current temperature is higher than the target temperature, the heating system will not be turned on.

---

## Quick Heat



### 1. When power is on, press the [heating] button to turn on the heating system.

### 2. Press and hold the [Heat] button for at least 3 seconds.

- Heating is set to the highest temperature, and Start (🔥) flashes on the indoor temperature control LCD display.
- If the set temperature changes during heating or you press and hold the [Heat] button for at least 3 seconds, Quick Heat is turned off.

# Hot water, Preheat Water

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## hot water



**1. When power is on, press the [hot water] button to turn on the hot water system.**

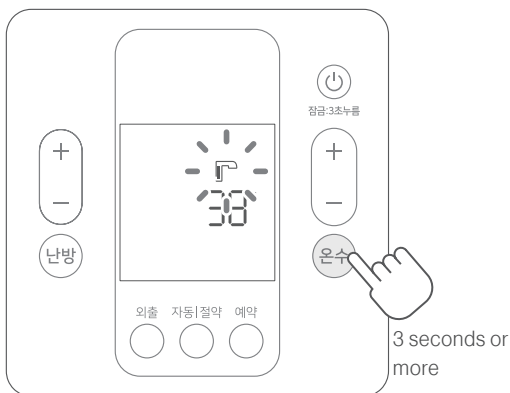
- On the LCD, the heating indicator (☀) is on.
- Press the [Hot Water] button while in operation to stop heating.

**2. Use the [Higher] or [Lower] button to set your desired temperature.**

- You can only change from between 30°C to 55°C while hot water is in use. To change to 60°C, press the Higher button while the hot water tap is off.

---

## Preheat Water



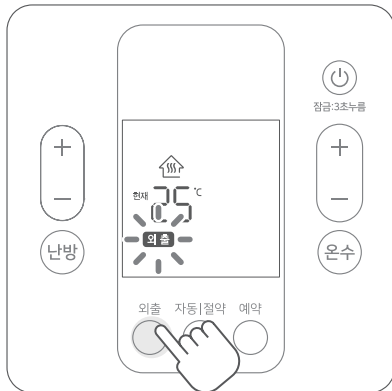
**1. When power is on, press the [hot water] button to turn on the hot water system.**

**2. Press and hold the [Hot Water] button for at least 3 seconds.**

- On the LCD, the heating indicator (☀) is on.
- Turn on the hot water tap while operating or press and hold the [Hot Water] button for at least 3 seconds to turn off hot water preheating.

# Auto | Eco Mode

## Away mode



### 1. When power is on, press the [away] button to turn on the away mode.

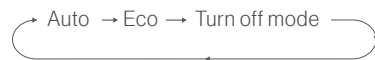
- ( **외출** ) will be displayed.
- The minimum temperature heating system will be turned on every 4 hours to keep the pleasant room temperature.
- If the away or heating button is pressed when the mode is on, the away mode will be turned off. )

## Auto | Eco Mode



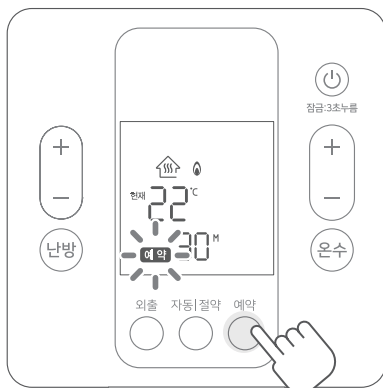
### 1. Press the [Auto | Eco] button while the power is on to select a mode.

- ( **자동** ) will be displayed.
- Each time the [Auto | Eco] button is pressed, the mode changes.



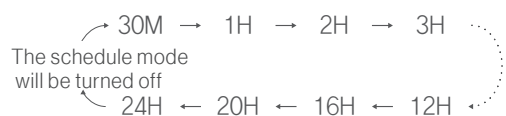
- You cannot set the heating temperature or hot water temperature in auto mode.
- Press the [Auto | Eco] or [Heating and Hot Water] button while operating to turn off auto mode.

## Schedule mode



### 1. When power is on, press the [schedule] button to preset time.

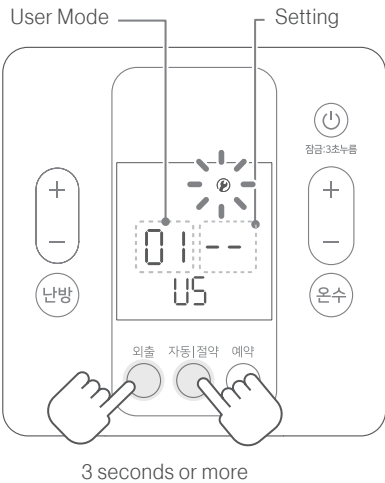
- ( **예약** ) will be displayed.
- Each time the ( **예약** ) button is pressed, reservation time changes at 1-hour or 4-hour intervals.



- Press the [Reservation] button while operating to disable reservation mode.



## Turn button and notification sounds on or off



**1. Press and hold the [Auto | Eco] and [Out] buttons for at least 3 seconds while power is off.**

- The service mode indicator (⚡) blinks on the LCD.

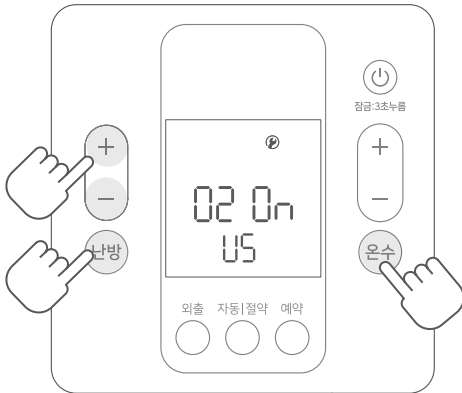
**2. Press the heating temperature [Up] or [Down] buttons to select the button for the desired feature.**

- 01: No feature
- 02: Button sound control
- 03: Notification sound control (including errors and freeze warnings)
- 04: No feature

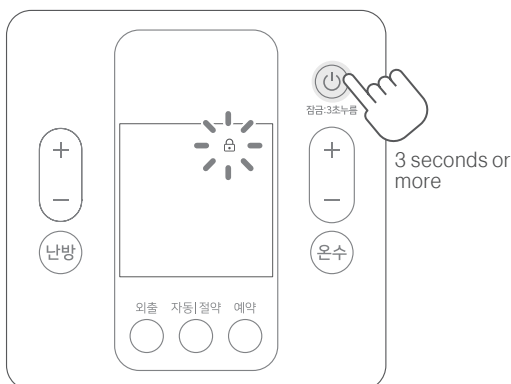
**3. After selecting a feature (02 or 03), press the [Hot Water] button to enter your desired settings.**

- 0n: On
- 0F: Off

**4. After setup, press the [Heat] button to stop user mode.**



## Lock Function

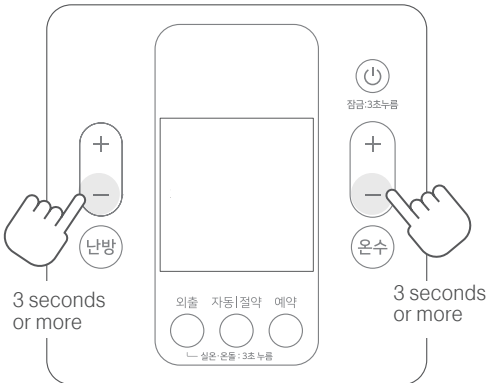


**1. When power is on, press and hold the [power] button for more than 3 seconds to lock.**

- The icon (🔒) will be displayed.
- When the power or heating button is pressed for more than 3 seconds, the lock will be unlocked.

## Mute button sounds

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### 1. Press and hold the [Lower Heat] and [Lower Hot Water Temperature] buttons for at least 3 seconds while power is off.

- A buzzer will sound and mute will be set.
- Press and hold the [Lower Heat] and [Lower Hot Water Temperature] buttons for at least 3 seconds simultaneously again. A buzzer will sound and mute will be disabled.

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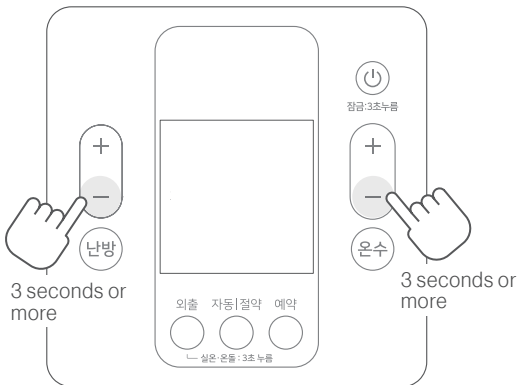
### • Control Display



#### Freeze Protection Alarm

It will be displayed when a heating pump is turned on for freeze protection.

## Mute button sounds



### 1. Press and hold the [Lower Heat] and [Lower Hot Water Temperature] buttons for at least 3 seconds while power is off.

- A buzzer will sound and mute will be set.
- Press and hold the [Lower Heat] and [Lower Hot Water Temperature] buttons for at least 3 seconds simultaneously again. A buzzer will sound and mute will be disabled.

## • Control Display



### Freeze Protection Alarm

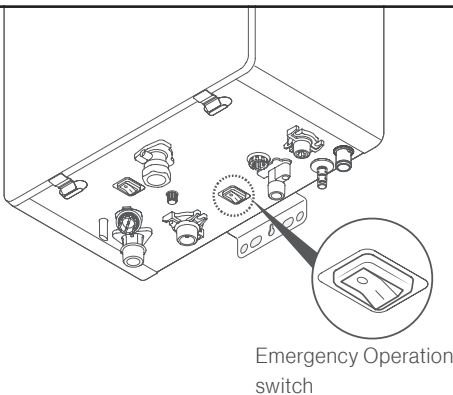
It will be displayed when a heating pump is turned on for freeze protection.



### Priority Display

If two indoor temperature controllers are connected, the most recently set up controller will be displayed on the display.

## Emergency Operation



Emergency Operation switch

### 1. Press the [Emergency Operation] switch on the bottom of the boiler.

- Emergency operation of the boiler is possible if the indoor temperature controller is malfunctioning or not connected.

