How to use the gas boiler

Indoor Thermostat

Labels (clockwise / around diagram):
- Operation indicator
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- Away
- Floor heating
- User Mode
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- Energy Monitor
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- Preset time
- Control dial
- Heating — 난방
- Away
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- Schedule
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- Hot water stage
- Schedule
- Hot water — 온수
- Setting
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- Power

자동 절약   외출   예약   에너지 모니터   전원

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• 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	Floor heating mode
Indoor temperature sensor detects room temperature and controls the temperature.	Floor temperature sensor detects water temperature from a boiler and controls the floor temperature.
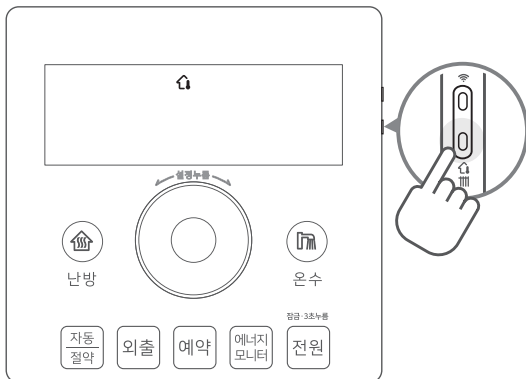
1. When power is on, press the [heating mode switch] button.

· (🏠) Indoor heating mode ← → (|||||)
  Floor heating mode can be switched.

Heating / Quick Heat

Heating
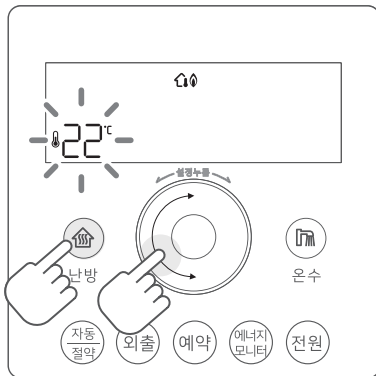
1. **When power is on, press the [heating] button to turn on the heating system.**
   - The heating temperature blinks on the LCD.
   - If the heating button is pressed when the system is on, it will be turned off.

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

3 seconds or more

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.
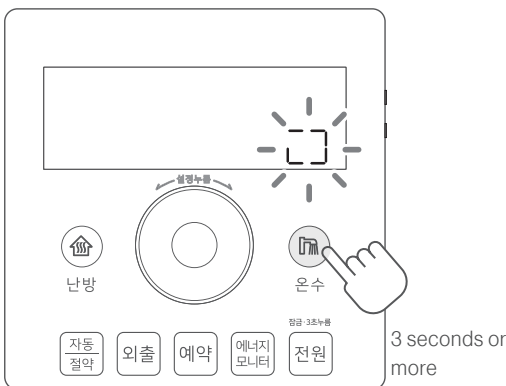
Hot water / Preheat Water

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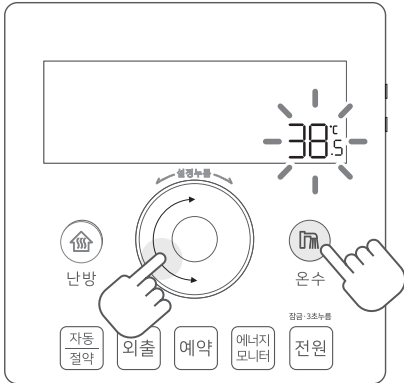
1. **When power is on, press the [hot water] button to turn on the hot water system.**

   • 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℃ to 55℃ while hot water is in use. To change to 60℃, press the Higher button while the hot water tap is off.

Preheat Water

3 seconds or more

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.
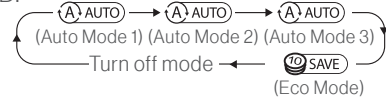
# Auto | Eco / Away / Schedule Mode

Auto | Eco Mode

Away mode

Schedule mode

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

   • The auto indicator (Ⓐ 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.
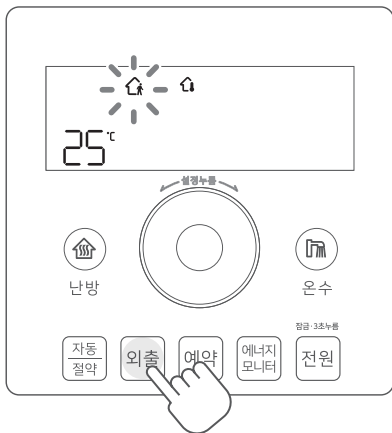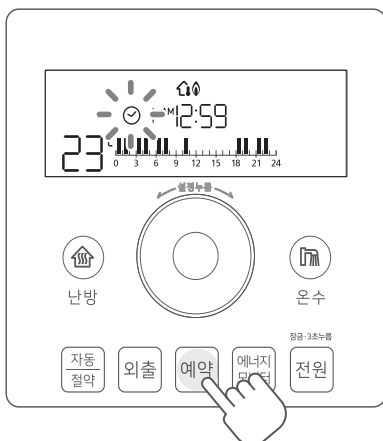
1. **When power is on, press the [away] button to turn on the away mode.**

   • (🏠) 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.
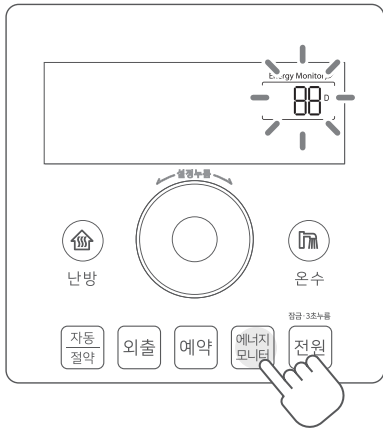
1. **When power is on, press the [schedule] button to preset time.**

   • (⊘) will be displayed.

   • Press the [schedule] button to change the reservation number.
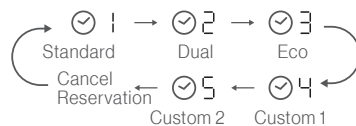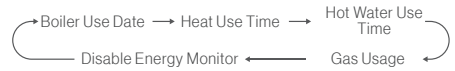

   • Press the [schedule] button while operating to disable reservation mode.

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.

  Boiler Use Date ⟶ Heat Use Time ⟶ Hot Water Use Time ⟶ Gas Usage ⟶ Disable Energy Monitor ⟶ (loop back to Boiler Use Date)

- Press and hold the [Energy Monitor] button for at least 3 seconds. (000) blinks on the LCD and information is reset.

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

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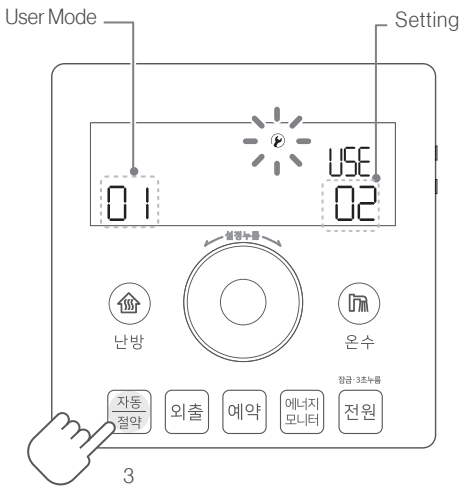
1. Press and hold the [Auto|Eco] and [Out] buttons for at least 3 seconds while the power is off.

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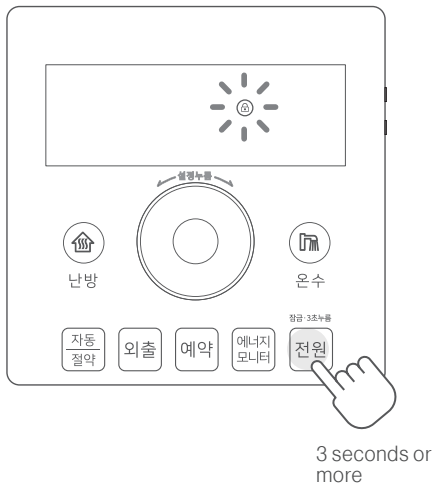
3. Press the [Hot Water] button after selecting a feature to set it as you wish.

- 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.
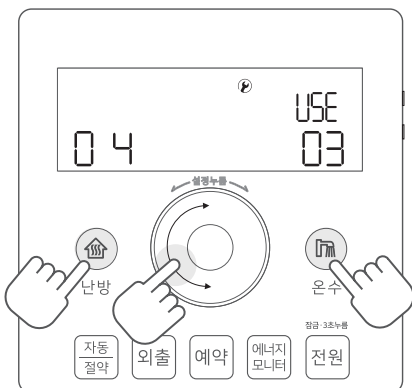
Lock Function

3 seconds or more

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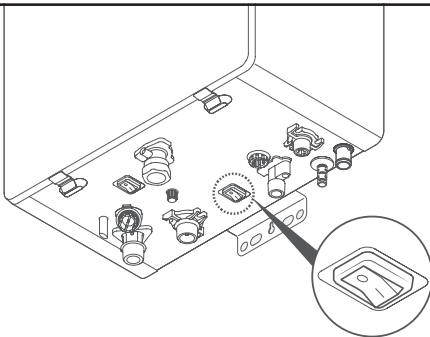
1. **Press the [Emergency Operation] switch on the bottom of the boiler.**

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