

# Dehumidifier User Manual



## Display Control Panel Button Functions

1. **Power Button [ON/OFF]:** Turns the device on or off.
2. **Mode Button [MODE]:** Switches between dehumidification, drying, and continuous dehumidification modes (cycles through options).
3. **Timer Button [TIMER]:** Sets or adjusts the timer.
4. **Humidity Setting Button [HUM\_SET]:** Allows you to set the desired humidity level (input numerical values).
5. **Fan Speed Button [SPEED]:** Adjusts the fan speed (options cycle between high, low, and auto).
6. **Ion Control Button [ION]:** Controls ionized air functions (light and child lock) and can turn them on or off.

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## Mode Settings

The device features **three operating modes**: Dehumidification, Drying, and Continuous modes. While the device is turned on, press the **[MODE]** button to cycle through Dehumidification, Drying, and Continuous modes. Each press of the Mode button switches to the next mode in sequence.

### Dehumidification Mode:

The compressor stops running once the set humidity level is reached. Both humidity and fan speed can be adjusted.

### Continuous Mode:

The compressor runs continuously. Fan speed can be adjusted, but the humidity setting is unavailable.

### Drying Mode:

The compressor runs at maximum capacity, and the fan speed is fixed at high. Both humidity and fan speed settings are unavailable.

### Note:

- To prevent the device from frequently switching, there is a **3-second delay** when changing modes. The screen will immediately switch, but the internal action will only occur after a 3-second

confirmation.

- When switching modes, if fan speed is not manually set, the device will use the fan speed from the previously active mode. However, in **Drying Mode**, the fan speed is always fixed at **high**.
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## Humidity Settings

In **Dehumidification Mode** (not available in other modes), press the **[HUM\_SET]** button to enter the humidity setting view. The display will flash **"88"**, and the humidity setting indicator light will turn off.

While **"88"** is flashing, press **[HUM\_SET]** to set the target humidity. The setting range is **30%–80% RH** and can be adjusted cyclically.

Press the **[Humidity]** button to increase the humidity value by **5% RH**.

If no button is pressed within **5 seconds**, the displayed value will be automatically saved as the target humidity, and the device will exit the humidity setting mode. The **"88"** will change to show the ambient humidity, and the humidity indicator light will turn off.

When the humidity setting is **30% RH or lower**, the device will run in **Continuous Dehumidification Mode** (unless a fault, warning, or defrosting occurs; the compressor will continue running).

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## Fan Speed Settings

The device has **two fan speed levels**: High and Low.

While the device is on, press the **[SPEED]** button to switch to the next fan speed. The corresponding fan speed indicator light will turn on, and the settings will cycle through the options.

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## Timer Settings

### Function Overview:

- **Timer On:** Set a time to **turn on** the device (when it's currently off).
- **Timer Off:** Set a time to **turn off** the device (when it's currently on).

### How to Set the Timer:

1. Press the **[TIMER]** button to enter the timer setting mode.
  - a. The timer indicator light will **flash**.
  - b. The screen will display a countdown with **"88"** flashing.
2. If the display shows **"00"**, the timer is **off** (inactive).
3. Press the **[TIMER]** button repeatedly to adjust the time.
  - a. Timer range: **0–24 hours**.
  - b. Each press increases the time by **1 hour** (it cycles back to 0 after 24).
4. **No action for 5 seconds:**

The current displayed value is saved as the timer setting, and the screen exits the setup

mode.

#### Timer Status Display:

- **When the device is ON:**The timer is active, the timer indicator light **stays on**, and the display returns to showing the current **humidity**.
  - **When the device is OFF:**The timer is active, the timer indicator light **stays on**, and the display shows the **remaining countdown** time.
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### Child Lock Function

#### 1. Enabling/Disabling the Child Lock:

While the device is **on**, press and hold the **[Child Lock]** button for **3 seconds** to activate or deactivate the child lock.

#### 2. During Child Lock Mode:

- a. All other buttons will be **disabled**.
- b. To disable the child lock, press and hold the **[Child Lock]** button again for **3 seconds**.

#### 3. Power Reset:

If the device is **turned off** or there is a power interruption, the child lock mode will be automatically **cleared** when the power is restored.

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### Operating Instructions

#### Power On/Off Actions

1. **First Power-On (Initial Start-up):** When the device is powered for the first time (or after a firmware reset), it defaults to **Dehumidification Mode** with **Low Fan Speed** and the **Ionizer Off**.
2. **Power On Again (No Settings):** If you turn the device on again without adjusting any settings, it will remember the last mode and fan speed it was set to before the power was turned off.
3. **Power-On Actions:** When turning on:The fan starts after a **2-second delay**.
  - a. If the ionizer is set to ON, it will activate.
  - b. The compressor starts 5 seconds later after the conditions are met.
4. **Power-Off Actions:** The compressor turns off immediately, followed by a 5-second delay to turn off the ionizer and fan.

#### Compressor 3-Minute Delay Protection

##### 1. When the Compressor Stops Normally:

The compressor must remain off for at least **3 minutes** before restarting.

##### 2. If Power Is Interrupted:

.Regardless of the compressor's previous state, when power is restored, the fan will start after a **2-second delay**, but the compressor must wait **3 minutes** before it can restart.

##### 3. When Restarting After Power Off:

If the device was turned off, the system will follow the **initial power-on sequence** when powered back on.

## Humidity Control (Effective in Dehumidification Mode)

1. **If Ambient Humidity > Set Humidity + 3%:**
    - a. The fan will start after a **2-second delay**.
    - b. The compressor will start **5 seconds later** (subject to the 3-minute compressor delay protection).
  2. **If Ambient Humidity ≤ Set Humidity - 3%:**
    - a. The compressor will stop **immediately**.
    - b. The fan will continue running for **30 seconds** before stopping.
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## Display Status Explanation

1. **Power Indicator "O":**
  - a. **On State:** The power indicator light stays **bright**.
  - b. **Off State:** The power indicator light stays **dim** (weak light).
  - c. **Compressor Start Delay:** The light blinks with a frequency of **1.5s ON / 0.5s OFF**.
  - d. **Humidity Check Mode:** "88" and the power indicator flash simultaneously at the same rate (1.5s ON / 0.5s OFF).
2. **Timer Indicator "O":**
  - a. Active Timer: The indicator light stays **on**.
  - b. Timer Setup or Viewing: The indicator light **flashes**.
  - c. Inactive Timer: The indicator light is **off**
3. **Humidity Setting Indicator "O":**
  - a. The light **flashes** when setting or checking humidity.
  - b. In other cases, the light is **off**.
4. **Continuous Mode Indicator "O":**
  - a. **On:** Continuous dehumidification mode is active.
  - b. **Off:** Continuous dehumidification mode is inactive.
5. **Dehumidification Mode Indicator "O":**
  - a. **On:** Dehumidification mode is active.
  - b. **Off:** Dehumidification mode is inactive.
6. **Drying Mode Indicator "O":**
  - a. **On:** Drying mode is active.
  - b. **Off:** Drying mode is inactive.
7. **Low Fan Speed Indicator "O":**
  - a. **On:** Fan speed is set to low.
  - b. **Off:** Not in low fan mode.
8. **High Fan Speed Indicator "O":**
  - a. **On:** Fan speed is set to high.
  - b. **Off:** Not in high fan mode.
9. **Ionizer Indicator "O":**
  - a. **On:** Ionizer function (or light purification) is active.

- b. **Off:** Ionizer is inactive.
  - 10. **Water Full Alarm Indicator:**
    - When the water tank is full, the indicator **flashes**.
    - **Off:** Water tank is not full.
  - 11. **Defrost Indicator "O":**
    - **On:** The device is in defrost mode.
  - 12. **Display Sleep Mode:**
    - If no button is pressed for **60 seconds**, the display enters **sleep mode**.
    - The brightness reduces to **30%** of normal.
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## E7 Water Full Alarm

### Trigger Condition:

- a. If water full is detected continuously for 5 seconds, the water full alarm activates.
- b. If water full is no longer detected continuously for 5 seconds, the alarm clears.
- c. To prevent false triggers due to water level fluctuations, the compressor follows a **3-minute** restart delay when the alarm clears.

### Water Full Alarm Indicators:

- 1. The **Water Full Indicator Light** will **flash** (on for 2 seconds, off for 0.5 seconds).
- 2. The **Buzzer** will sound **5 times** (1 beep per second). Press any button to **mute** the alarm sound.
- 3. The display will show **"88"**, and the **digits continue displaying the current humidity**.

### System Behavior During Water Full Alarm:

- 1. **Before Compressor Starts:**
  - If water full is detected for 5 seconds, the fan will stop, and the water full alarm activates.
- 2. **After Compressor Starts:**
  - If water full is detected for 5 seconds: The compressor stops immediately.
    - i. The fan runs at **high speed** for 3 minutes and then stops, triggering the water full alarm.
    - ii. If the alarm clears (water level returns to normal), the alarm stops.
    - iii. The fan resumes the **preset speed**, and the compressor can restart after fulfilling the **3-minute restart delay condition**.
- 3. **When the Device Is Turned Off:**
  - The system will not trigger the water full alarm during power-off states.

### Manual Reset or Alarm Behavior:

- 1. When the water full alarm is active, the water full symbol flashes continuously (1.5 seconds on, 0.5 seconds off).
- 2. The buzzer sounds 5 times per cycle.
- 3. Pressing any button mutes the sound but does not stop the Water Full Symbol from flashing.