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.

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**.

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).

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.

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.

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.

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.

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.

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.