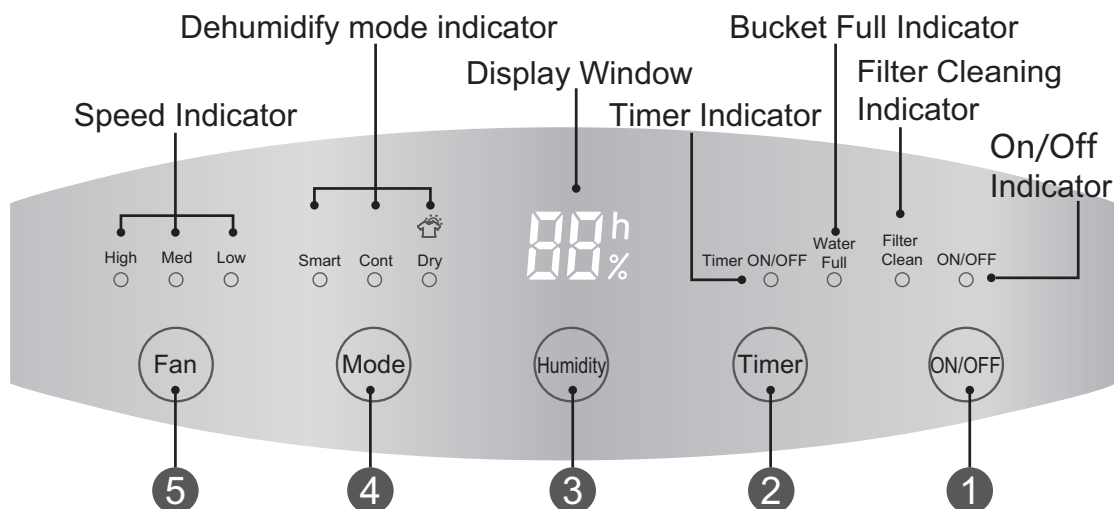


## 6.Function and Control

### 6.1 Control panel instruction

GDN20AT-K5EBA1A GDN40AU-K5EBA1A



Notes:1.Water bucket must be correctly installed for operation.

2.Do not remove the bucket while unit is in operation.

3.If you want to use drain hose to drain water away, please install the hose according to section "Drainage method".

4.Each time pressing the effective button on the control panel will give out a "beep" sound.

5.When power is connected, power indicator on the control panel will be on and dehumidifier gives out a "beep" sound simultaneously.

#### (1) ON/OFF Button

Press this button to turn on/off dehumidifier.

#### (2) Timer Button

Press Timer button to set timer on or timer off. The timer can be set in 1h increment among 0-24h with each press of Timer button. If hold the Timer button, time will increase rapidly circularly. After timer is set, time will be displayed for 5s and timer indicator will be on.

#### (3) Humidity Button

Press Humidity button to set your required humidity. If hold Humiditybutton, humidity can be set in 10% increment among 30%-80% circularly. After that, the set humidity will be displayed for 5s.

#### (4) Mode Button

Press Mode button can set 3 kinds of dehumidify mode - Smart, Cont, and Dry.

- If smart indicator is on, it indicates the unit enters into smart mode. The unit will intelligently select the comfortable humidity for human according to current temperature.
- If cont indicator is on, it indicates the unit enter into continuous dehumidify mode. The unit will always dehumidify only until the humidity is decreased to the inapplicable humidity of human.
- If the dry indicator is on, the unit enters into dry mode. After clothes are dried, room humidity will be kept at certain range to prevent mildew. Under dry mode, fan speed and humidity can't be adjusted.

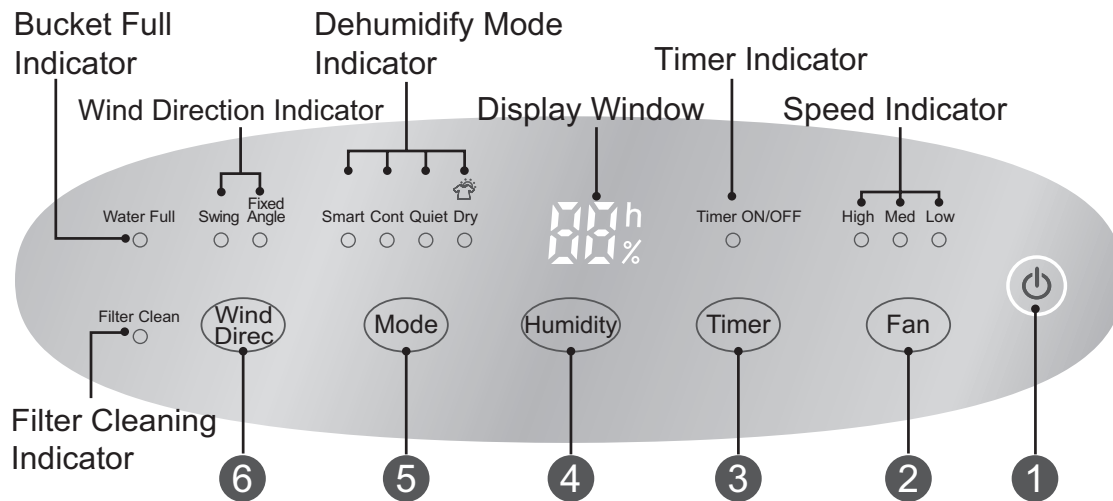
#### Note:

- Under smart mode, if room humidity is lower than set humidity, or lower than the defaulted comfortable temperature, the unit will stop dehumidifying.
- Under dry mode and cont mode, the humidity can't be adjusted. Under dry mode, fan speed can't be adjusted.

#### (5) FAN Button

Pressing this button can set fan speed circularly as: High, Medium, Low. Corresponding indicator will be on for each fan speed. Under dry mode, this button will be disabled.

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- Notes:
1. Water bucket must be correctly installed for operation.
  2. Do not remove the bucket while unit is in operation.
  3. If you want to use drain hose to drain water away, please install the hose according to section "Drainage method".
  4. Each time pressing the effective button on the control panel will give out a "beep" sound.
  5. When power is connected, power indicator on the control panel will be on and dehumidifier gives out a "beep" sound simultaneously.

(1) ON/OFF Button

Press this button to turn on/off dehumidifier.

(2) Fan Button

Press Fan button can set high, medium or low fan speed. When the corresponding indicator is on, it indicates the current fan speed has been set.

(3) Timer Button

Press Timer button to set timer on or timer off. The timer can be set in 1h increment among 0-24h with each press of Timer button. If hold the Timer button, time will increase rapidly circularly. After timer is set, time will be displayed for 5s and timer indicator will be on.

(4) Humidity Button

Press Humidity button to set your required humidity. If hold Humidity button, humidity can be set in 10% increment among 30%-80% circularly. After that, the set humidity will be displayed for 5s.

(5) Mode Button

Press Mode button can set 4 kinds of dehumidify mode - Smart, Cont, Quiet and Dry.

- If smart indicator is on, it indicates the unit enters into smart mode. The unit will intelligently select the comfortable humidity for human according to current temperature.
- If cont indicator is on, it indicates the unit enter into continuous dehumidify mode. The unit will always dehumidify only until the humidity is decreased to the inapplicable humidity of human.
- If the quiet indicator is on, the unit enter into quiet mode. The unit will intelligently select the comfortable humidity for human according to current temperature. The unit will operate at the fan speed whose noise is the lowest. The fan speed can't be adjusted.
- If the dry indicator is on, the unit enters into dry mode. After clothes are dried, room humidity will be kept at certain range to prevent mildew. Under dry mode, fan speed and humidity can't be adjusted.

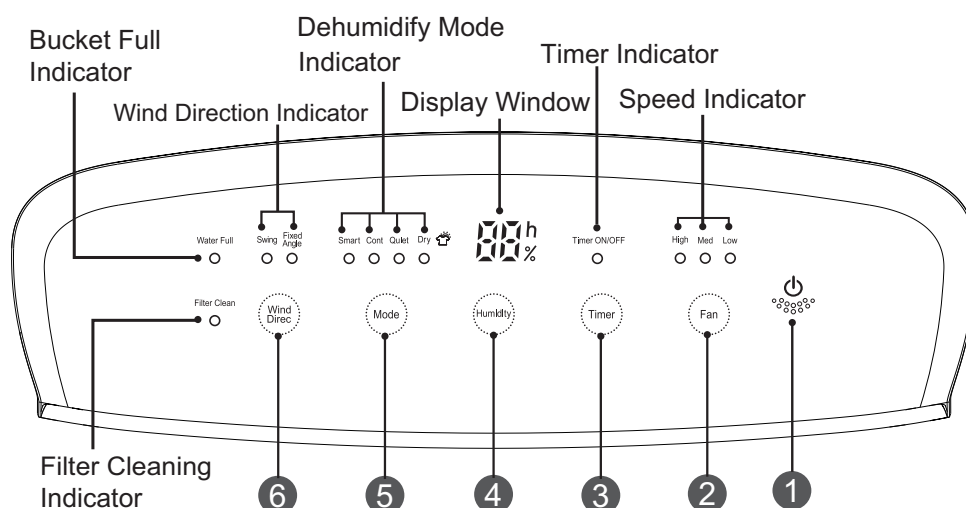
**Note:**

- Under smart mode and quiet mode, if room humidity is lower than set humidity, or lower than the defaulted comfortable temperature, the unit will stop dehumidifying.
- Under dry mode and cont mode, the humidity can't be adjusted. Under dry mode and quiet mode, fan speed can't be adjusted.

(5) Wind Direc Button

When swing of horizontal louver is needed, press Wind Direc button to select swing or fixed angle. When Swing light of Wind Direc indicator is on, the horizontal louver begins to swing; when Fixed Angle light is on, the horizontal louver stays at current position.

GDN20BD-K5EBA1A

**Notes:**

- Water bucket must be correctly installed for operation.
- Do not remove the bucket while unit is in operation.
- If you want to use drain hose to drain water away, please install the hose according to section "Drainage method".
- Each time pressing the effective button on the control panel will give out a "beep" sound.
- When power is connected, power indicator on the control panel will be on and dehumidifier gives out a "beep" sound simultaneously.

**(1) ON/OFF Button**

Press this button to turn on/off dehumidifier.

**(2) Fan Button**

Press Fan button can set high, medium or low fan speed. When the corresponding indicator is on, it indicates the current fan speed has been set.

**(3) Timer Button**

Press Timer button to set timer on or timer off. The timer can be set in 1h increment among 0-24h with each press of Timer button. If hold the Timer button, time will increase rapidly circularly. After timer is set, time will be displayed for 5s and timer indicator will be on.

**(4) Humidity Button**

Press Humidity button to set your required humidity. If hold Humidity button, humidity can be set in 10% increment among 30%-80% circularly. After that, the set humidity will be displayed for 5s.

**(5) Mode Button**

Press Mode button can set 4 kinds of dehumidify mode - Smart, Cont, Quiet and Dry.

- If smart indicator is on, it indicates the unit enters into smart mode. The unit will intelligently select the comfortable humidity for human according to current temperature.
- If cont indicator is on, it indicates the unit enter into continuous dehumidify mode. The unit will always dehumidify only until the humidity is decreased to the inapplicable humidity of human.
- If the quiet indicator is on, the unit enter into quiet mode. The unit will intelligently select the comfortable humidity for human according to current temperature. The unit will operate at the fan speed whose noise is the lowest. The fan speed can't be adjusted.
- If the dry indicator is on, the unit enters into dry mode. After clothes are dried, room humidity will be kept at certain range to prevent mildew. Under dry mode, fan speed and humidity can't be adjusted.

**Note:**

- Under smart mode and quiet mode, if room humidity is lower than set humidity, or lower than the defaulted comfortable temperature, the unit will stop dehumidifying.
- Under dry mode and cont mode, the humidity can't be adjusted. Under dry mode and quiet mode, fan speed can't be adjusted.

**(6) Wind Direc Button**

When swing of horizontal louver is needed, press Wind Direc button to select swing or fixed angle. When Swing light of Wind Direc indicator is on, the horizontal louver begins to swing; when Fixed Angle light is on, the horizontal louver stays at current position.

## Other Instructions

### 1. Alarm Warning

If the water bucket is full or the water bucket hasn't been put on the correct position for 3mins, the buzzer will give out sound for 10s for reminding you to empty the water bucket or re-install the water bucket at correct position.

### 2. Auto Stop

When bucket is full, remove the unit or not placed the unit correctly or the humidity is 10% lower than the set humidity, the unit will stop operation automatically.

### 3. Memory Function

If power failure, all settings will be memorized. After power recovery, the unit will resume operate according to the memorized settings.

### 4. Bucket full light

This indicates that bucket is full or removed or not placed correctly.

### 5. Filter reset

When the indicator of filter clean is on, it needs to clean filter. After filter is cleaned, press Fan button and Humidity button simultaneously and then the indicator of filter clean will be off.

### 6. Child lock function

Press Mode button and Timer button simultaneously for 1s to enter into child lock protection. After pressing any button, LC will be displayed to indicate buttons are locked. Press Mode button and Timer button simultaneously for 1s again to release shielding function.

## 6.2 Introduction of Basic Mode Function

### I . Basic Function

#### 1. Smart dry mode

Normal operation condition and process: Under operation status, when energize the unit, turn on the unit or switch mode for the first time, if  $T_{amb.} \leq 20^{\circ}\text{C}$ , set humidity is 60%; when  $20^{\circ}\text{C} \leq T_{amb.} \leq 27^{\circ}\text{C}$ , set humidity is 50%; when  $T_{amb.} > 27^{\circ}\text{C}$ , set humidity is 40%. If the user adjusts the humidity, the unit will operate in set humidity.

- When  $\text{HUMIDITY}_{\text{preset}} \leq \text{HUMIDITY}_{\text{amb.}} - 5\%$ , compressor will operate and fan will operate in set speed;
- When  $\text{HUMIDITY}_{\text{preset}} \geq \text{HUMIDITY}_{\text{amb.}} + 10\%$ , compressor will stop the fan will operate at low speed
- When  $\text{HUMIDITY}_{\text{amb.}} - 5\% < \text{HUMIDITY}_{\text{preset}} < \text{HUMIDITY}_{\text{amb.}} + 10\%$  and compressor is in operating status, it will operate with condition a; when compressor stops, it will operate with condition b; if the unit is in this condition after turning on, the compressor will be in stoppage status and the the fan will operate at low speed.

#### 2. Continuous dry mode

In continuous dry mode, the complete unit will operate in the following modes and humidity button is invalid.

- When  $\text{HUMIDITY}_{\text{amb.}} \geq 30\%$ , compressor will operate and fan will operate in set speed;
- When  $\text{HUMIDITY}_{\text{amb.}} \leq 20\%$ , compressor will stop and the fan will operate at low speed;
- When  $20\% < \text{HUMIDITY}_{\text{amb.}} < 30\%$  and compressor is in operating status, it will operate with condition a; when compressor stops, it will operate with condition b; if the unit is in this condition after turning on, the compressor will be in stoppage status and the fan will the fan will operate at low speed.

#### 3. Cloth drying mode

After entering cloth drying mode, the compressor operates, the fan operates in high fan speed, humidity and fan button are invdid and fan speed is not displayed. When the complete unit has operated in cloth drying mode for more than 8 hours (when the unit enters temperature sensor error or humidity sensor error, it will stop timing and will resume timing when the error is eliminated) or stops after reaching temperature point (unit stops for exceeding operation conditions), the unit will operate according to the following logic:

Set humidity is 50%, which cannot be adjusted. The complete unit will operate in the following modes:

- When  $\text{HUMIDITY}_{\text{preset}} \leq \text{HUMIDITY}_{\text{amb.}} - 5\%$ , compressor will operate and fan will operate in high speed;
- When  $\text{HUMIDITY}_{\text{preset}} \geq \text{HUMIDITY}_{\text{amb.}} + 10\%$ , compressor will stop and the fan will operate at low speed
- When  $\text{HUMIDITY}_{\text{amb.}} - 5\% < \text{HUMIDITY}_{\text{preset}} < \text{HUMIDITY}_{\text{amb.}} + 10\%$  and compressor is in operating status, it will operate with condition a; when compressor stops, it will operate with condition b; if the unit is in this condition after turning on, the compressor will be in stoppage status and the the fan will operate at low speed.

When turning on the unit after turning it off, or entering cloth drying mode after switching mode, the unit will start operating in cloth drying mode again.

#### 4. Quite dry mode

The fan will operate in low fan speed, fan button is invalid and fan speed is not displayed. Other operation conditions is the same as intelligent drying mode. Under quite dry mode, when  $T_{amb.} > 34^{\circ}\text{C}$ , the following will be performed: ① Compressor stops operation; ② Louver will open once. When  $32^{\circ}\text{C} < T_{amb.} \leq 34^{\circ}\text{C}$ , compressor will keep the previous status. When  $T_{amb.} \leq 32^{\circ}\text{C}$ , compressor operates normally.

### II . Protection Functions

#### 1. Compressor protection

After energization, under any situation and after compressor stops, it will restart with 3min delay at least. In operation status, unless there is temperature sensor error, turning off unit with on/off button or water-blow protection, after compressor starts up, it will stop after it runs for 3min at least.

#### 2. Temperature sensor error detection

When ambient humidity sensor occurs error, the compressor stops, fan stops, LED light is off, buttons are invalid and "L1/F1" is displayed. When two sensors occur error, "F1, L1, F2" is displayed alternatively to remind user for repairing.

#### 3. Water full protection

In operating status, the water full protection will occur when the water level of water bucket is exceeded, water bucket is removed or water bucket is not placed well. The compressor stops and fan will stop after 3min. The buzzer will stop after it gives out a beep for 10s, water full indicator will blinks and all the buttons are invalid except ON/OFF button; When the water level or placing of water bucket resumes to normal, water full protection signal is eliminated, water full indicator is off, buzzer stops giving a beep, fan operates as previous set speed, and the compressor resumes to normal operation after stopping for 3min.

In unit off status, if water full protection occurs, water full indicator will blink continuously and buzzer will stop after it gives out a beep for 10s. compressor and fan do not operate and all buttons are invalid.

#### 4. Freeze protection

During operation, when freeze protection is detected, the compressor stops operation, fan operates in high speed forcibly; when freeze protection is eliminated, fan speed button will resume valid, fan operates as previous set speed, and the compressor resumes to normal operation after stopping for 3min.

### III. Other Functions

#### 1. Panel buttons

“ON/OFF” button: turn on or turn off the unit.

“Timer” button: set timer within 0~24h; hold on pressing Timer button for 1S, timer time will increase by one hour per 400MS.

“Humidity” button: adjust humidity (adjust humidity continuously and circulative in 30%→40%→50%→60%→70%→80%); hold on pressing Humidity button for 1S, humidity value will increase by 10%RH per 400MS.

“Mode” button: set drying mode (smart, continuous, quiet, cloth drying).

“Fan” button: adjust fan speed (high, medium, low).

“Wind direction” button: adjust louver (swing or fixed-angle).

#### 2. LED display

(GDN20AT-K5EBA1A GDN40AU-K5EBA1A)

“Mode” indicator: display current operation mode (smart, cont and dry);

“Fan” indicator: display current fan speed (high, medium, low) (fan speed is not displayed in cloth drying mode);

“Timer” indicator: this indicator is on when there is a timer; this indicator is off when there is no timer;

“Filter cleaning” indicator: when the fan has operated accumulatively for 250 hours, this indicator is on; after pressing filter combination buttons to eliminate filter protection, this indicator is off;

“Water full protection” indicator: this indicator will blink when water full protection occurs;

“Standby/operation” indicator: red light is displayed in standby mode (always on); white light is displayed in operating status (always on).

(GDN20AV-K5EBA1A GDN20BD-K5EBA1A GDN40AW-K5EBA1A)

“Mode” indicator: display current operation mode (smart, cont, quiet and dry);

“Fan” indicator: display current fan speed (high, medium, low) (fan speed is not displayed in quiet and cloth drying mode);

“Timer” indicator: this indicator is on when there is a timer; this indicator is off when there is no timer;

“Fixed angle” indicator: display swing status; when this is no swing, fixed angle indicator is on;

“Swing” indicator: display swing status; when this is swing, swing indicator is on;

“Filter cleaning” indicator: when the fan has operated accumulatively for 250 hours, this indicator is on; after pressing filter combination buttons to eliminate filter protection, this indicator is off;

“Water full protection” indicator: this indicator will blink when water full protection occurs;

“Standby/operation” indicator: red light is displayed in standby mode (always on); white light is displayed in operating status (always on).

#### 3. Timer control

0~24h timer can be set with one hour as a level; timer off can be set in unit on status and timer on can be set in unit off status.

#### 4. Display of nixie tube

a. In operation status, nixie tube displays current humidity; press “humidity” button to display set humidity; it will resume to display current ambient humidity after 5s:

Ambient humidity displaying range is 1%~99%. It will display 99% if humidity exceeds 99%. Within 15s after turning on the unit, current set humidity will be displayed in smart and quiet mode; 50% will be displayed in clothe drying and continuous mode; after 15s, current ambient temperature will be displayed and the value will be updated every 5s.

b. Under any situation, if temperature sensor or humidity sensor occurs error, “F1”, “F2” or “L1”, “E5”, “H3”, “F0” will be displayed. Timer indicator, button background indicator, operation mode indicator, fan indicator, filter indicator will not display. Error code will not displayed in unit off status.

c. “E5” will be displayed in overcurrent protection; “H3” will be displayed in overload protection; “F0” will be displayed in refrigerant leakage protection; compressor protection and freeze protection will not be displayed.

d. When several error codes will be displayed, the error codes will be displayed alternatively in every 3s.

#### 5. Filter warning function

When the fan has operated accumulatively for 250 hours, filter indicator is on to remind user to clean the filter; user can press “filter reset” button to clear timing and then filter indicator will be off.

In unit off status, the filter indicator is off; filter cleaning time will be recorded once in every 30min.

#### 6. Buzzer

During energizing or receiving valid button signal, the buzzer will give out a beep.

#### 7. Factory default setting

Fan speed: Low.

Mode: smart dehumidifying mode.