



# Service Manual

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Models: GDN40AU-K3EBA1A  
GDN40AW-K3EBA1A  
(Refrigerant:R410A)

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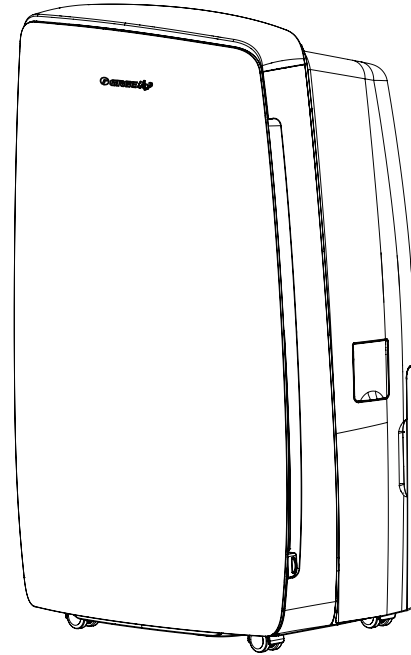
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# Part I : Technical Information

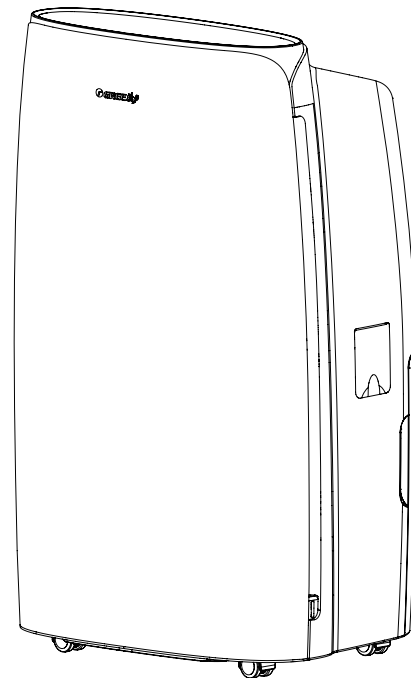
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## 1.Summary

GDN40AU-K3EBA1A



GDN40AW-K3EBA1A



## 2. Specifications

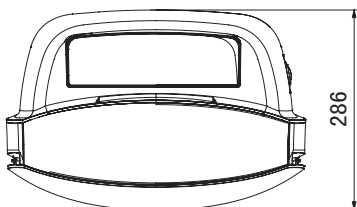
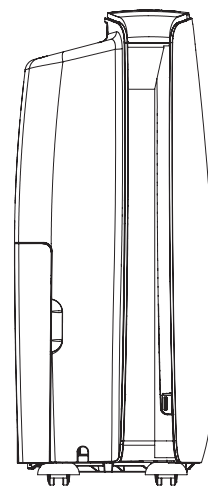
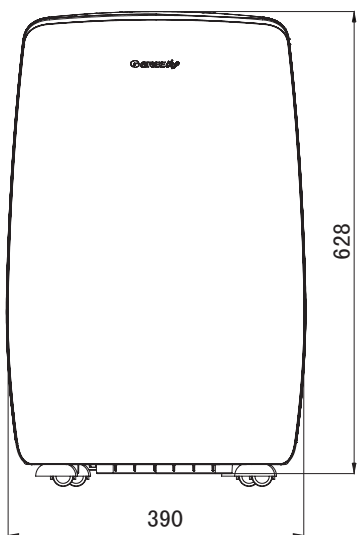
### 2.1 Specification Sheet

Model			GDN40AU-K3EBA1A	GDN40AW-K3EBA1A
Product Code			CK051024400	CK051024500
Power Supply	Rated Voltage	V ~	220-240	220-240
	Rated Frequency	Hz	50	50
	Phases		1	1
Rated Dehumidification Capacity		Pint/D	50	51
Power Input		W	570	570
Current Input		A	2.65	2.65
Set Humidity Range		%	30/80	30/80
Air Flow Volume (H/M/L)		m <sup>3</sup> /h	230/195/170	230/195/170
Fan Motor Speed (H/M/L)		r/min	1260/1070/900	1260/1070/900
Fan Motor Power Output		W	20	20
Fan Motor RLA		A	0.35	0.35
Fan Motor Capacitor		μF	2	2
Fan Type			Centrifugal	Centrifugal
Fan Diameter Length (DXL)		mm	Φ192X66	Φ192X66
Throttling Method			Capillary	Capillary
Fuse Current		A	3.15	3.15
Sound Pressure Level (H/M/L)		dB (A)	46/43/40	46/43/41
Sound Power Level (H/M/L)		dB (A)	56/53/50	56/53/51
Climate Type			T1	T1
Isolation			I	I
Moisture Protection			IPX0	IPX0
Permissible Excessive Operating Pressure for the Discharge Side		MPa	4.3	4.3
Permissible Excessive Operating Pressure for the Suction Side		MPa	2.5	2.5
Dimension (WXHxD)		mm	390X628X286	396X625X286
Dimension of Carton Box (LXWXH)		mm	348X461X655	448X338X638
Dimension of Package (LXWXH)		mm	351X464X670	451X341X653
Application Area		m <sup>2</sup>	48	48
Net Weight		kg	22	23
Gross Weight		kg	23.5	24.5
Refrigerant			R410A	R410A
Refrigerant Charge		kg	0.31	0.31
Bucket Capacity		L	6.5/7	6.5/7
Control Type			Electronic	Electronic
Evaporator	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7	Φ7
	Evaporator Row-fin Gap	mm	2-1.4	2-1.4
	Evaporator Coil Length (LXDXW)	mm	261X228.6X25.4	261X228.6X25.4
Condenser	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7	Φ7
	Condenser Rows-fin Gap	mm	3-1.4	3-1.4
	Condenser Coil Length (LXDXW)	mm	261X228.6X38.1	261X228.6X25.4
Compressor	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD.	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model		QXA-A071L130C	QXA-A071L130C
	Compressor Type		Rotary	Rotary
	Compressor Power Input	W	630	630
	Compressor Overload Protector		UP3-B0	UP3-B0
	Compressor Oil		RB68EP	RB68EP
	Compressor LRA.	A	15	15
Compressor RLA	A	2.9	2.9	

The above data is subject to change without notice; please refer to the nameplate of the unit.

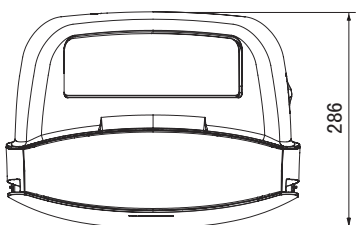
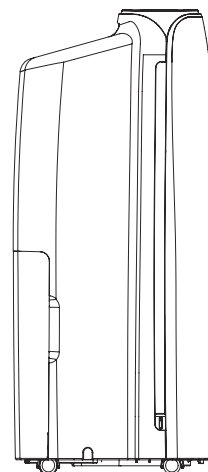
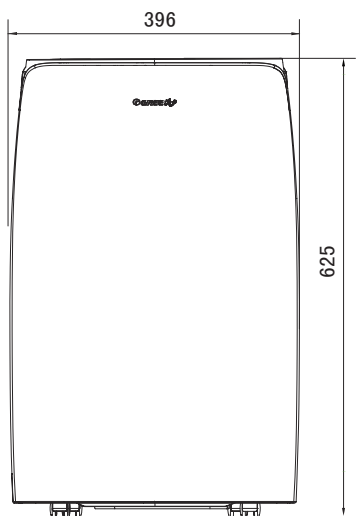
### 3.Outline Dimension Diagram

GDN40AU-K3EBA1A



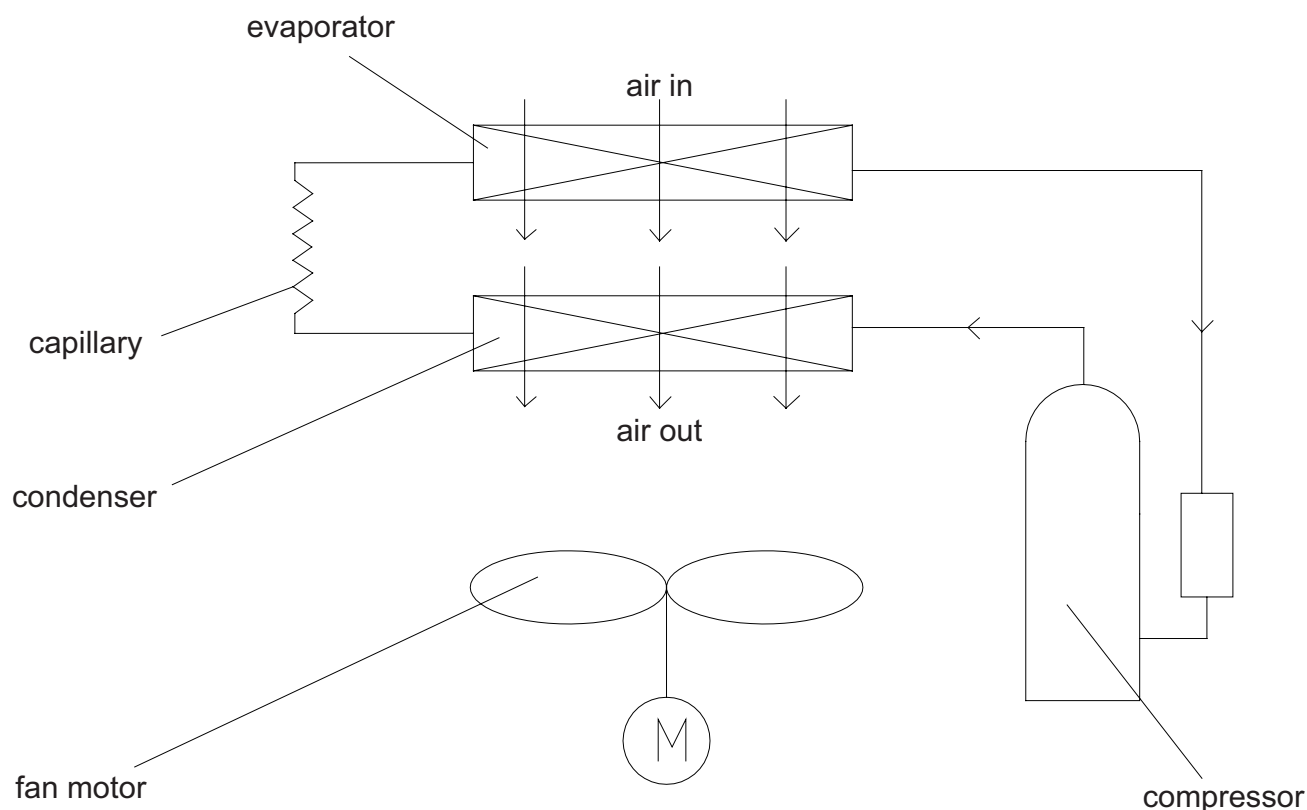
Unit:mm

GDN40AW-K3EBA1A



Unit:mm

## 4.Refrigerant System Diagram



### Dehumidifying principle of dehumidifier:

When temperature is decreased to the temperature point of dew, water vapor in humid air will condensate. Dehumidifier is dehumidifying the air by using this principle.

During operation of the system, air will pass through evaporator and condenser in turn and then be discharged due to centrifugal blade. When the air is passing through evaporator, refrigerant will absorb the heat in air to let its temperature decrease to the temperature point of dew, water vapor in air will condensate. Condensate water comes into water tank through water tray, or is discharged directly through drainage hose. The saturated low-temperature air passed through the evaporator will absorb the heat when flowing along the condenser, and then become the dry air. Under normal condition, the nearby air will become warm during operation of dehumidifier.

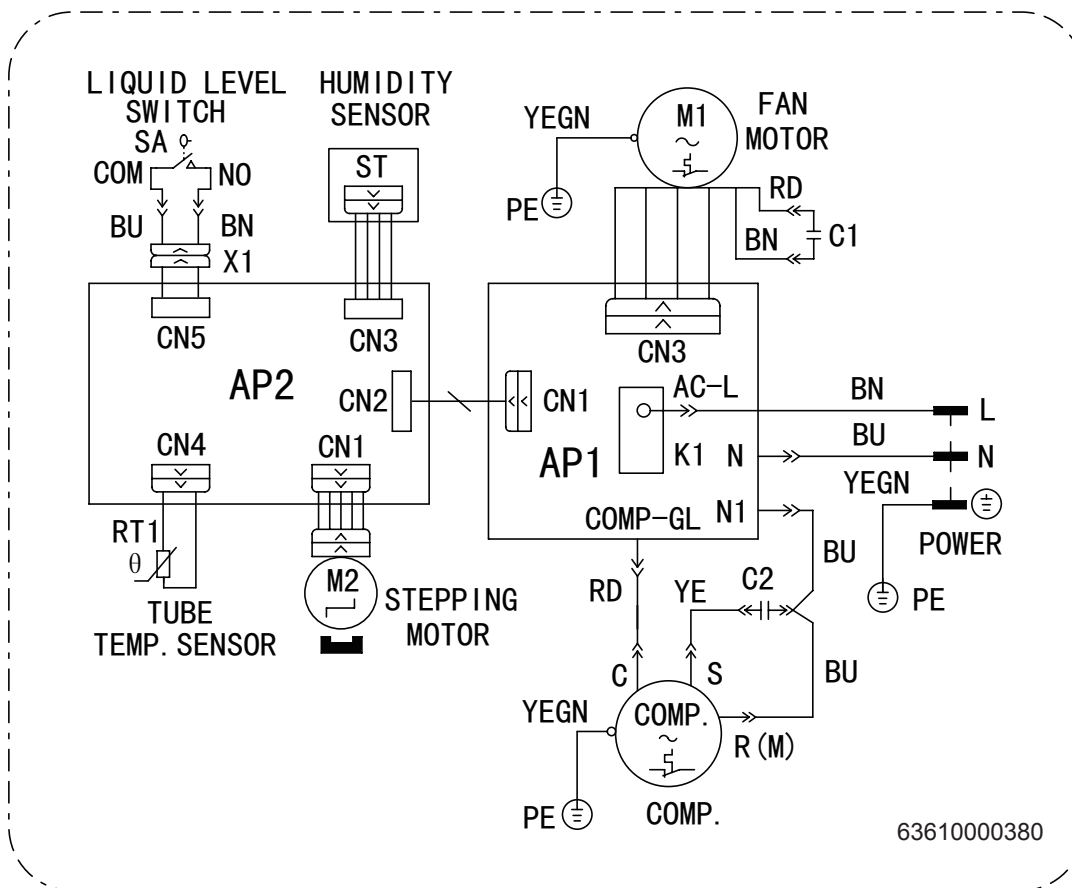
# 5. Electrical Part

## 5.1 Wiring Diagram

● Instruction

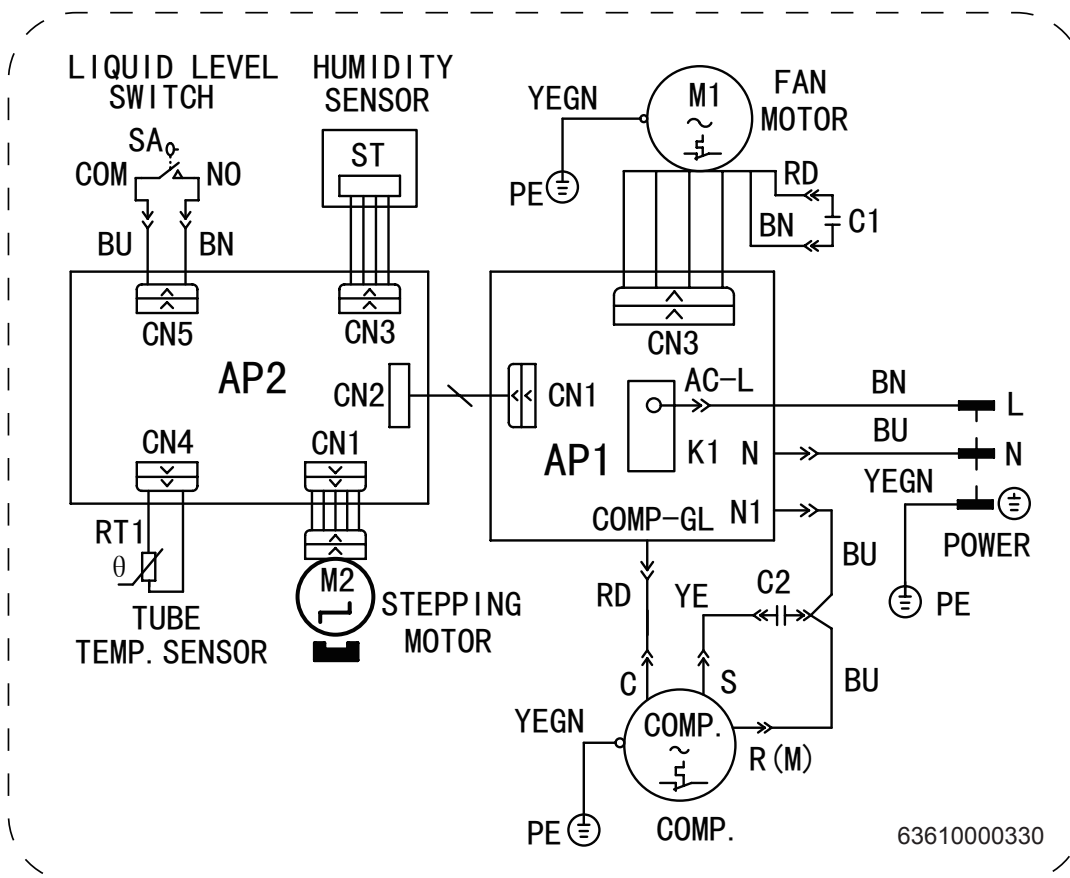
Symbol	Symbol Color	Symbol	Symbol Color	Symbol	Name
WH	White	GN	Green	CAP	Jumper cap
YE	Yellow	BN	Brown	COMP	Compressor
RD	Red	BU	Blue	⊕	Grounding wire
YEGN	Yellow/Green	BK	Black	/	/
VT	Violet	OG	Orange	/	/

GDN40AU-K3EBA1A



63610000380

GDN40AW-K3EBA1A



These wiring diagrams are subject to change without notice; please refer to the one supplied with the unit.

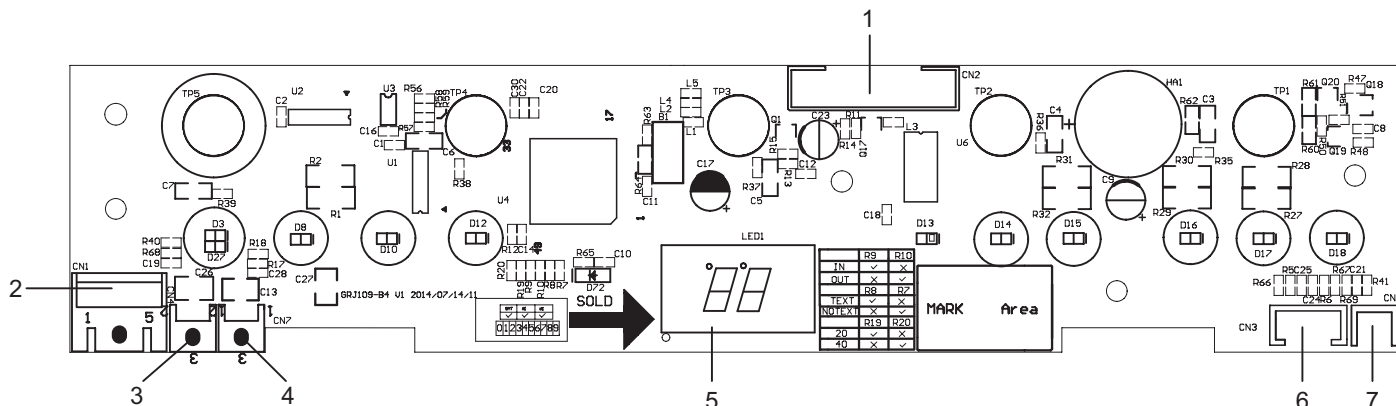




## Silk Screen on Display Board

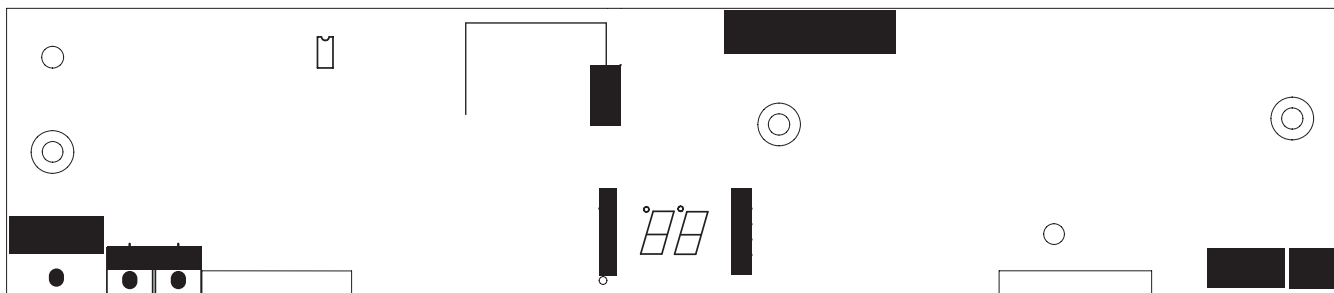
GDN40AU-K3EBA1A

### • Top view



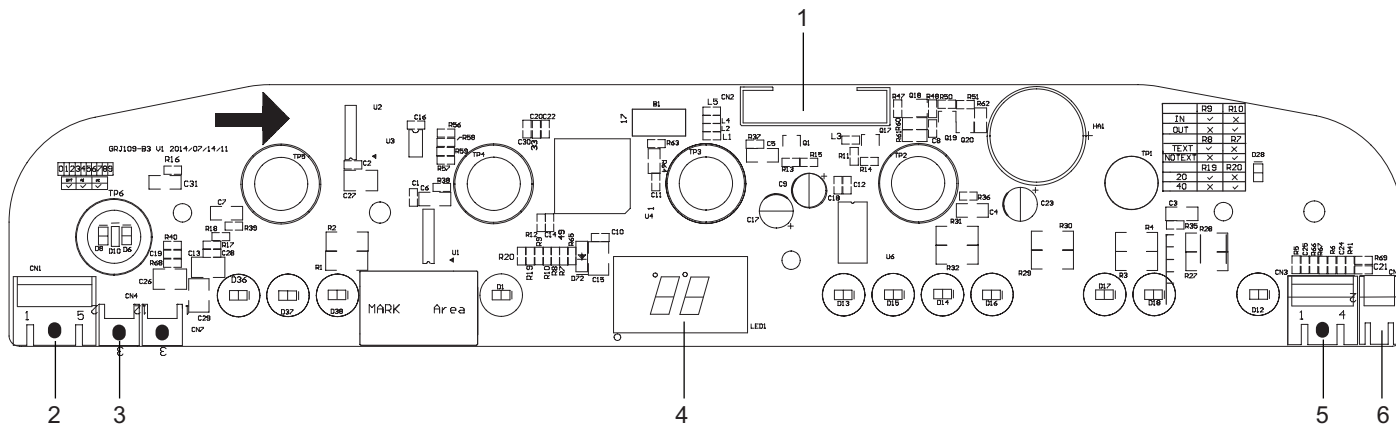
No.	Name
1	Interface of main board
2	Interface of stepping motor
3	Interface of temperature sensor
4	Reserved interface of discharge temperature sensor
5	Nixie tube
6	Interface of inspection board for temperature and environment
7	Water-level inspection port

### • Bottom view



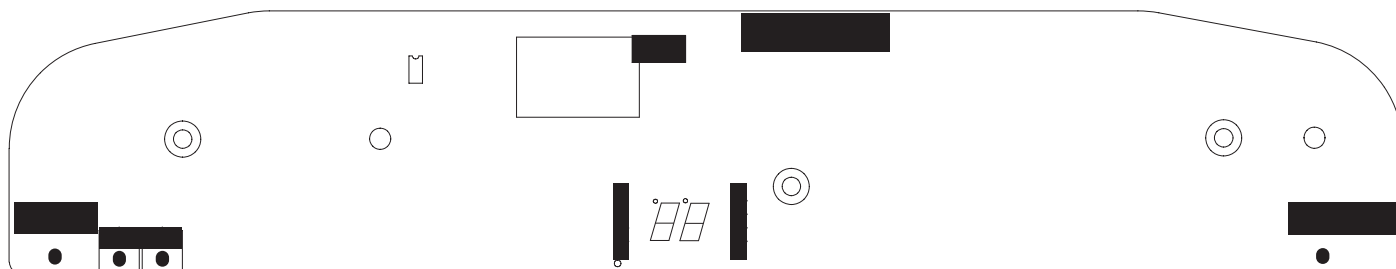
GDN40AW-K3EBA1A

• Top view



No.	Name
1	Boards connection interface for connection board
2	Interface of stepping motor
3	Interface of tube temperature sensor
4	Nixie tube
5	Interface of temperature and humidity sensor
6	Water level inspection interface

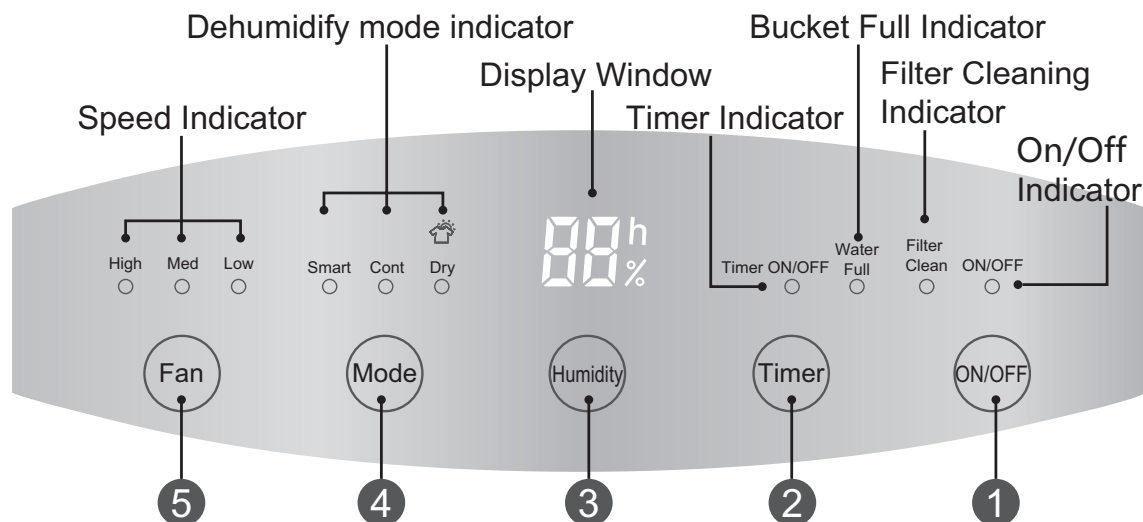
• Bottom view



## 6.Function and Control

### 6.1 Control panel instruction

GDN40AU-K3EBA1A



Notes:1.Water bucker 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.

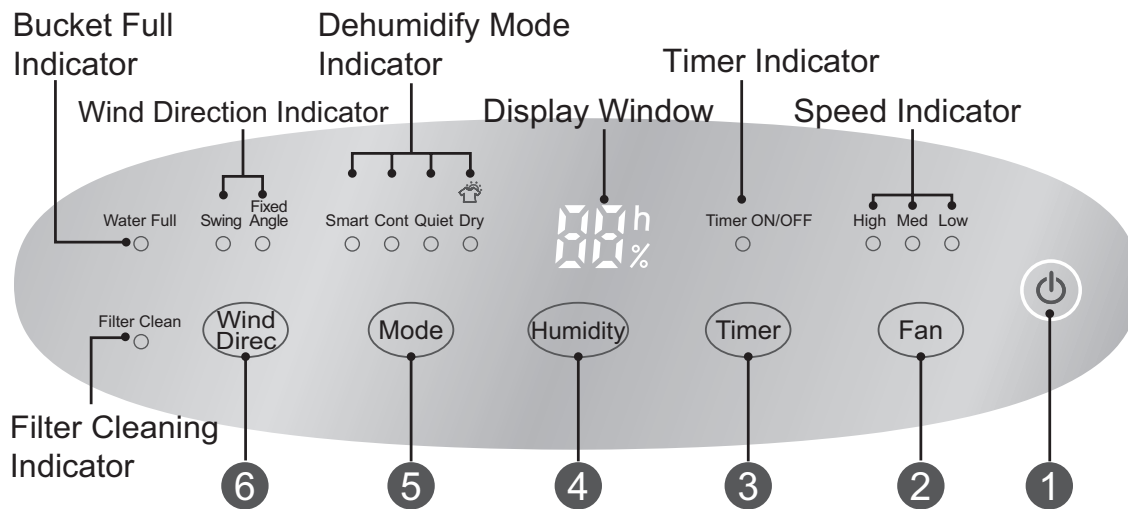
#### Note:

- 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 and quiet 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 Auto mode, this button will be disabled.

GDN40AW-K3EBA1A



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 enters 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 enters 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.

## 6.2 Introduction of Basic Mode Function

### I . Basic function

#### 1. Smart dehumidify

Normal working condition and process: under operation status, when entering into the smart dehumidify mode for the first time,

and  $T_{amb} \leq 20^{\circ}\text{C}$ , the set humidity is 60%; when  $20^{\circ}\text{C} < T_{amb} \leq 27^{\circ}\text{C}$ , the set humidity is 50%; when  $T_{amb} > 27^{\circ}\text{C}$ , the set humidity is 40%. Afterwards, if user adjusts the humidity, the unit will operate at the humidity set by user.

a. When  $\text{set humidity} \leq \text{ambient humidity} \leq \text{ambient humidity} - 5\%$ , compressor operates and the fan operate at the set speed;

b. When  $\text{set humidity} \geq \text{ambient humidity} + 10\%$ , compressor stops operation; the fan will delay 3min to stop operation;

c.  $\text{Ambient humidity} - 5\% < \text{set humidity} < \text{ambient humidity} + 10\%$ , compressor stays at operation status, and it will operate according to condition "a"; when compressor stays at stop status, and it will operate according to condition "b"; If it's this condition when turning on the unit, compressor will stay at stop status and the fan will delay 3min to stop operation.

#### 2. Continuous dehumidify

Under continuous dehumidify status, the complete unit will operate according to below mode. The humidity button is invalid.

a. When  $\text{ambient humidity} \geq 30\%$ , compressor starts operation and the fan operates at set fan speed;

b. When  $\text{ambient humidity} \leq 20\%$ , compressor stops operation and then fan operates at set fan speed;

c. When  $20\% < \text{ambient humidity} < 30\%$ , compressor stays at operation status and it operates at condition "a"; when compressor stays at stop status, and it will operate according to condition "b"; If it's this condition when turning on the unit, compressor will stay at stop status and the fan operates at set fan speed.

#### 3. Clothes-drying mode

After entering into clothes-drying mode, compressor is turned on and the fan operates at high fan speed. Humidity and fan speed buttons are invalid. Fan speed won't be displayed. When the complete unit operates for above 8 hours under clothes-drying mode (when there's malfunction for temperature sensor or humidity sensor, stop 8hours for time count; time will

be counted after eliminating malfunction) or stops operation for protection after reaching to temperature point, the unit will operate as below:

Set humidity is 50%, which can't be adjusted. The complete unit operates according to below mode:

a. When  $\text{set humidity} \leq \text{ambient humidity} - 5\%$ , compressor starts operation and then fan operates at high fan speed;

b. When  $\text{set humidity} \geq \text{ambient humidity} + 10\%$ , compressor stops operation. The fan will operate at high fan speed for 3mins

and then stop operation;

c.  $\text{Ambient humidity} - 5\% < \text{set humidity} < \text{ambient humidity} + 10\%$ , compressor stays at operation status and it operates at condition "a"; when compressor stays at stop status, and it will operate according to condition "b"; If it's this condition when turning on the unit, compressor will stay at stop status, and the fan will operate at high fan speed for 3min and then stop operation.

When turning on the unit again or switch to clothes-drying mode again, the unit will operate under clothes-drying mode again.

#### 4. Dehumidify under quiet mode

The fan operates at low fan speed and the fan speed is invalid. Fan speed won't be displayed. The other operation condition is

same as that for smart dehumidify. Under quiet mode, when  $T_{amb} > 34^{\circ}\text{C}$ , it operates as below: ① Compressor stops operation; ② Horizontal louver opens. When  $32^{\circ}\text{C} < T_{amb} \leq 34^{\circ}\text{C}$ , compressor keeps previous status. When  $T_{amb} \leq 32^{\circ}\text{C}$ , compressor operates normally.

### II . Protection function

#### 1. Compressor protection

After energization, if compressor stops operation under any circumstances, it can be started up after 3min at the least.

Under

operation status, except where's malfunction for temperature sensor, turn off the unit by pressing ON/OFF button, water overflow protection, the compressor can stop operation only after operating for 3min.

#### 2. Temperature sensor malfunction inspection

When there's malfunction for ambient humidity sensor, the compressor and the fan stop operation. LED is off, button is invalid

and nixie tube displays "L1/F1". When two sensors all have malfunction, nixie tube will display "F1, L1, F2" alternatively to remind user to repair it.

#### 3. Water overflow protection

Under operation status, when there's water overflow protection or water tank hasn't been assembled well, compressor will stop operation, and fan will also stop operation after delaying for 3min. The buzzer will give out sound will 10s and water overflow indicator will flash. Except ON/OFF button, all buttons are invalid. When water level resumes normal or water tank

has been assembled well, the water overflow protection signal will disappear, water overflow indicator is OFF and the buzzer will stop giving out sound. The fan will operate at set fan speed and compressor will resume operation after 3min. If there's water overflow protection under OFF status, water overflow indicator will flash and buzzer will give out sound for 10s. The compressor and the fan can't be started up. All buttons are invalid.

#### 4. Freeze prevention protection

During operation process, when it detected that there's freeze prevention protection, the compressor stops operation and then fan operates at high fan speed; when it detected that freeze prevention protection is over, fan speed button is available. The fan will operate at set status, and the compressor be started up again 3min later.

#### III . Other function

##### 1. Buttons on panel

ON/OFF button: used for turn on or turn off the unit.

Timer button: used for timer setting (0-24h); If press Timer button for 1s, timer setting will increase 1h every 400MS.

"Humidity" button: use for adjust humidity calculatedly (30%→40%→50%→60%→70%→80%). If press humidity button for 1s above, humidity will increase 10%RH every 400MS.

Mode button: use for setting dehumidify mode (smart, continuous, quiet, clothes-drying).

Speed button: used for setting fan speed (high, medium, low).

Fan direction button: used for adjusting horizontal louver (swing, fixed-angle swing).

##### 2. LED display

(GDN40AU-K3EBA1A)

Mode indicator: display current operation mode (smart, continuous, quiet, clothes-drying) (L type dehumidifier displays smart, continues, clothes-drying);

Speed indicator: display current fan speed (high, medium, low) (fan speed won't be displayed under quiet or clothes-drying mode);

Timer indicator: this indicator is ON when timer function is set; this indicator is OFF when there's no timer setting.

Filter clean indicator: this indicator will be on when the fan has operated for 250h accumulatively. When press filter combine button to eliminate the filter protection, the indicator will be on;

Water overflow indicator: this indicator will be on when water overflow protection occurs.

"Standby/Operation" indicator: this indicator is in red under standby status; this indicator is in white when the unit is turned on. (GDN40AW-K3EBA1A)

Mode indicator: display current operation mode (smart, continuous, quiet, clothes-drying);

Speed indicator: display current fan speed (high, medium, low) (fan speed won't be displayed under quiet or clothes-drying mode);

Timer indicator: this indicator is ON when timer function is set; this indicator is OFF when there's no timer setting

Filter clean indicator: this indicator will be on when the fan has operated for 250h accumulatively. When press filter combine button to eliminate the filter protection, the indicator will be on;

Water overflow indicator: this indicator will be on when water overflow protection occurs.

"Standby/Operation" indicator: this indicator is in red under standby status; this indicator is in white when the unit is turned on.

##### 3. Timer control

Timer can be set in the range of 0~24h. Set timer OFF under on status; set timer on under off status.

##### 4.Nixie tube display

a. Under on status, it will display current humidity. Press "Humidity" button to display set humidity. After setting is finished for 5s, it will resume current ambient humidity;

Ambient humidity display range is 1%~99%. If exceeds 99%, it displays 99%. Within 15s after turning on the unit, set humidity is displayed under smart or quiet mode; 50% is display under clothes-drying or continuous mode; 15s later, it will display current ambient humidity. Current ambient humidity value will be updated every 5s.

b. If there's malfunction for sensor or temperature/humidity sensor, or there's malfunction due to protection under any circumstances, nixie tube will display "F1", "F2" OR "L1", "E5", "H3", "F0". Timer indicator, button backlight button, mode button, speed button and filter button will not display. Error code won't be displayed when turning off the unit.

c. E5 is displayed for overcurrent protection; E3 is displayed for overload protection; F0 is displayed for Freon-lacking protection; EE is displayed for welding blockage inspection display; No display for compressor protection and freeze prevention protection.

d. When there are multiple malfunctions, error codes will displayed alternatively every 3s.

##### 5. Filter alarm function

When the fan has operated for 250h, the filter indicator is on to remind user to clean the filter. User presses "filter reset" button to eliminate the time, and then the filter indicator will be off. Filter indicator will be off under off status. Clean time for filter will record once every 30min.

##### 6.Buzzer

After energization or received valid button signal, there will be a sound.

##### 7. Ex-factory defaulted setting

Ex-factory defaulted setting

Speed: high fan speed

Mode: smart dehumidify

# Part II : Maintenance

## 7. Notes Maintenance

### Safety Precautions:

#### Important!

Please read the safety precautions carefully before maintenance.

The following contents are very important for installation and maintenance.

Please follow the instructions below.

- The maintenance must accord with the instructions.
- Comply with all national electrical codes and local electrical codes.
- Pay attention to the warnings and cautions in this manual.
- Be cautious during maintenance. Prohibit incorrect operation to prevent electric shock and other accidents.



## Warnings

### Electrical Safety Precautions:

1. Cut off the power supply before maintenance.
2. Specialized circuit must be applied; prohibit sharing the same circuit with other electric appliances; protection switch must be installed.
3. Have the unit adequately grounded. The grounding wire can't be used for other purposes.
4. The live wire, neutral wire and grounding wire of power supply must be corresponding to the live wire, neutral wire and grounding wire of the dehumidifier.
5. The power cord can't be pressed by hard objects.
6. If the power cord or connection wire is not long enough, please get the specialized power cord or connection wire from the manufacturer or distributor. Prohibit prolonging the wire by yourself.
7. Replace the fuse with a new one of the same specification if it is burnt down; don't replace it with a copper wire or conducting wire.
8. Use the power supply with same voltage and frequency as shown in rating label.
9. Do not pull out the power plug when the unit is operating to avoid damaging the circuit.
10. Do not place anything at the top of dehumidifier; ensure the air outlet or air inlet is not blocked; do not use the unit near wall and curtain.
11. Do not use heating equipment around the unit.

### Refrigerant Safety Precautions:

1. Avoid contact between refrigerant and fire as it generates poisonous gas. Recycle the refrigerant inside the unit completely before welding pipes.
2. Apply specified refrigerant only. Never have it mixed with any other refrigerant. Never have air remain in the refrigerant line as it may lead to rupture or other hazards.
3. If refrigerant is leaking seriously, it may cause suffocation or explosion. When using the combustible refrigerant, please put the unit at ventilated place.
4. Never touch the refrigerant piping or compressor without wearing glove to avoid scald or frostbite.

Improper installation may lead to fire hazard explosion, electric shock or injury.





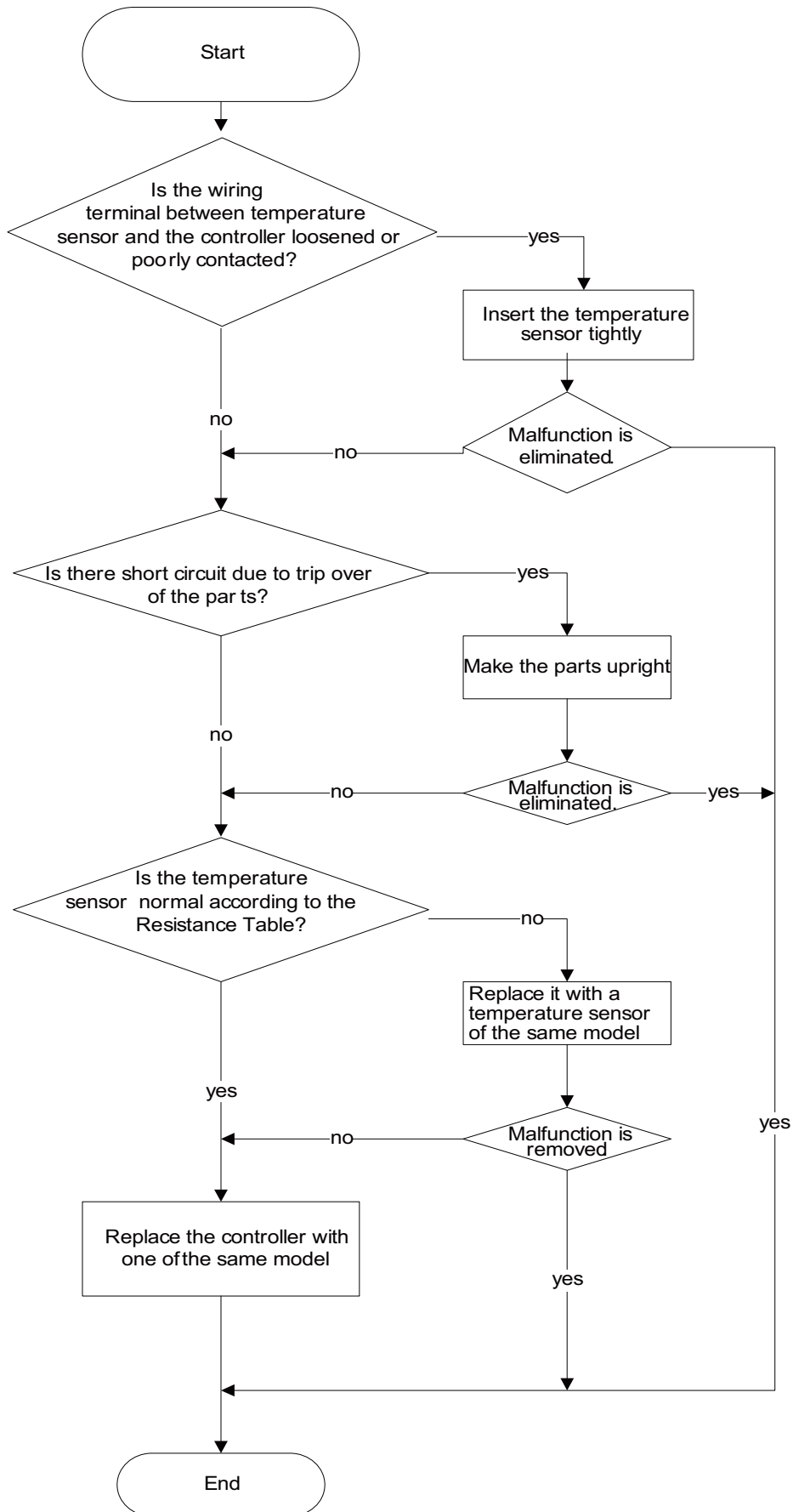
## 8. Maintenance

### 8.1 Error code

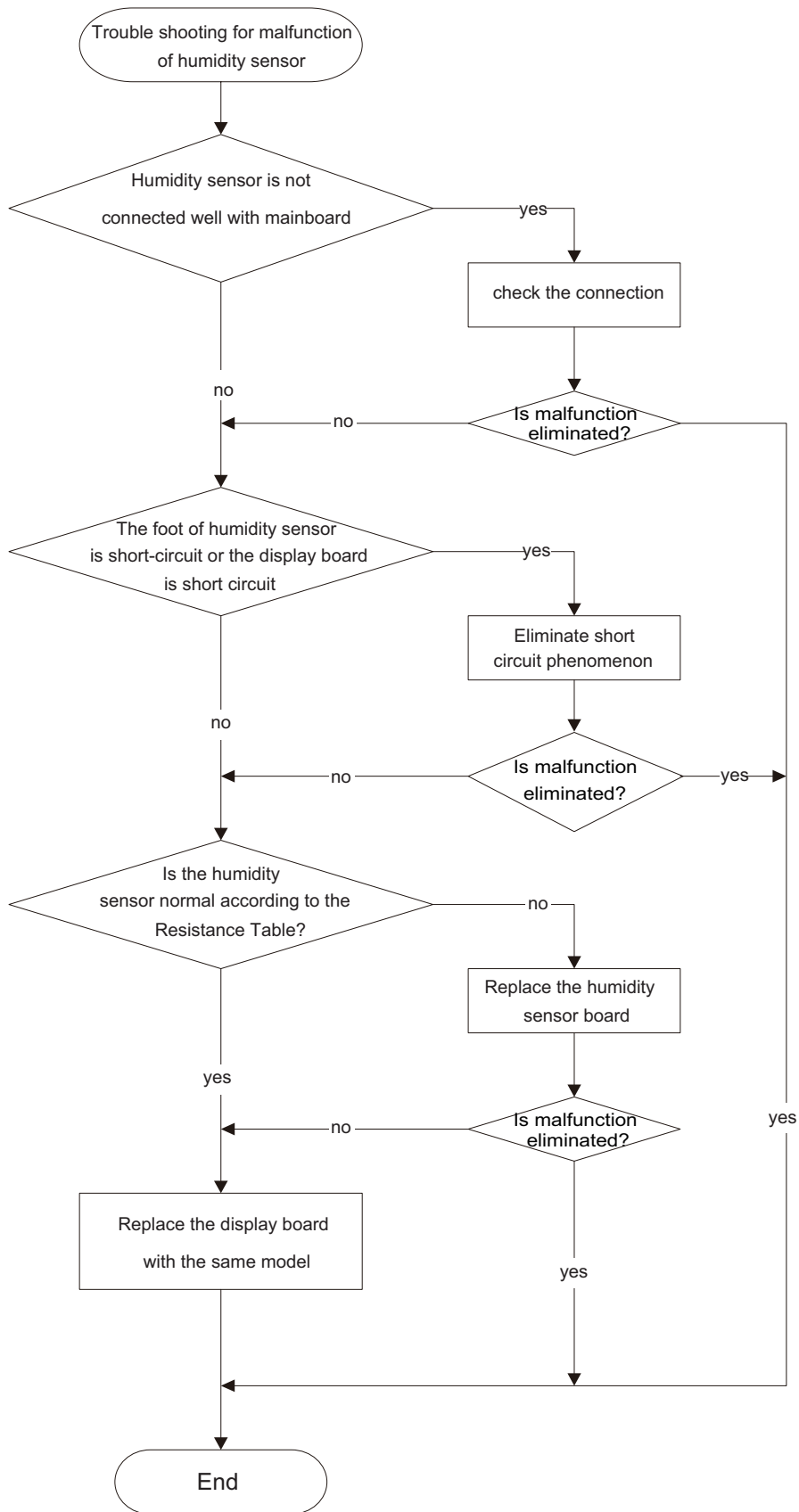
No.	Malfunction Name	Nixie tube display	Unit status	Possible Causes
1	Malfunction of ambient temp. sensor	F1	The compressor, fan and water pump stop; buttons are invalid	1. The wiring terminal between ambient temperature sensor and main board is loosened or poorly contacted; 2. There's short circuit due to trip-over of the parts on controller; 3. Ambient temperature sensor is damaged (Please check it by referring to the resistance table for temperature sensor); 4. Main board is broken.
2	Malfunction of tube temp. sensor	F2		1. The wiring terminal between evaporator temperature sensor and main board is loosened or poorly contacted; 2. There's short circuit due to the trip-over of the parts on controller; 3. Evaporator temperature sensor is damaged (Please check it by referring to the resistance table for temperature sensor); 4. Main board is broken.
3	Malfunction of humidity sensor	L1		1. Humidity sensor is short-circuit; 2. Humidity sensor is broken; 3. Display board is broken.
4	Freon-lacking protection	F0	The compressor stops; the fan motor keeps on running.	1. Refrigerant is leaking. 2. System is blocked.
5	Overload protection	H3		1. Ambient operation condition is bad. 2. The evaporator and condenser are blocked with filth. 3. The system is abnormal.

## 8.2 Malfunction Detection Flowchart

### 1. Malfunction of temperature sensor F1, F2



2. Malfunction of humidity sensor L1



## 8.3 Maintenance method for common malfunction

### 1. The unit can not start up

Possible causes	Discriminating method (dehumidifier status)	Troubleshooting
No power supply, or poor connection for power plug	After energization, operation indicator isn't bright and the buzzer can't give out sound	Confirm whether it's due to power failure. If yes, wait for power recovery. If not, check power supply circuit and make sure the power plug is connected well.
Poor connection between wiring terminals	Power indicator is not on after the unit is energized	Check the circuit according to wiring diagram and connect wire properly; ensure each wiring terminal contact firmly
There is electric leakage in the unit	Circuit breaker jump off immediately after the unit is energized	Make sure the unit is properly grounded; Make sure the wiring is correct; Check if the insulating layer of wires inside the unit and power cord is in good condition; if the layer is broken, please replace it.
Placing position of water tank is not correct. Water is removed or the water is full.	Wall-full indicator flashes.	Make sure the water tank is placed correctly.

### 2. Poor dehumidifying effect

Possible causes	Discriminating method (dehumidifier status)	Troubleshooting
Set humidity is irrational	Observe the displayed set humidity	Adjust set humidity
Filter is blocked	Check the filter to see it's blocked	Clean the filter
Placing position of water tank is improper.	Check whether there're obstacles around the dehumidifier blocked the air outlet.	Make sure there're no obstacles around the dehumidifiers.
Refrigerant is leaking	Air outlet temperature is lower than normal temperature during dehumidifying period.	Find out the cause of leakage and solve the problem; charge refrigerant
Malfunction of capillary	Air outlet temperature is lower than normal temperature during dehumidifying period. If the refrigerant isn't leaking, some parts of capillary is blocked.	Replace capillary
Malfunction of fan	Fan can't operate.	Refer to point 3 of maintenance method for details
Malfunction of compressor	Compressor can't operate	Refer to point 4 of maintenance method for details

### 3. Fan can't operate

Possible causes	Discriminating method (dehumidifier status)	Troubleshooting
Wrong wire connection, or poor connection	Check the wiring status according to circuit diagram	Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
Needle stand of connection wire between mainboard and display board is loosened	Check if the needle stand is loosened	Reinsert the needle stand firmly
Fan capacitor is broken	Test the voltage between two ends of fan capacitor with universal meter and the value is 0	Replace fan capacitor
Power supply voltage is too low or too high	Test the power supply voltage with universal meter and the value is too high or too low	Apply voltage regulator
Fan is broken	The above situation is normal but the fan does not operate	Repair or replace the fan

#### 4. Compressor can't operate

Possible causes	Discriminating method (dehumidifier status)	Troubleshooting
Wrong wire connection, or poor connection	Check the wiring status according to circuit diagram	Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
Compressor relay on the mainboard is broken or the compressor needle stand is loosened	Check if the relay is sucked in cooling mode	Replace the mainboard with the same model
Capacity of compressor is damaged	After tuning on the unit, the unit can't dehumidify. Use universal meter to measure the resistance value of two contact points of capacitor. If the resistance value is too big or 0, the capacitor is damaged.	Replace the compressor
Power voltage is a little low or high	After turning on the unit, dehumidifying effect is poor or compressor is turned on or off frequently. Use universal meter to measure the power supply voltage directly	The fluctuation of voltage is 10% rated power. If the power is too low or too high, you are suggested to equip wit voltage regulator.
Coil of compressor is burnt out	There is no dehumidifying effect after turning on the unit; test the resistance of the wiring poles of compressor with universal meter; if the resistance is infinite or zero, it means it is broken	Repair or replace compressor
Cylinder of compressor is blocked	The dehumidifying effect is poor after turning on the unit; the noise of compressor is big and the compressor is hot	Repair or replace compressor

#### 5. Water leakage

Possible causes	Discriminating method (dehumidifier status)	Troubleshooting
Drainage pipe hasn't been installed correctly.	Water is coming out from indoors.	Eliminate the blocking objects inside the drainage channel.

#### 6. Abnormal sounds and vibration

Possible causes	Discriminating method (dehumidifier status)	Troubleshooting
There is abnormal sound in some parts when just turning on or turning off the unit	There's the sound of "PAPA"	Normal phenomenon. Abnormal sound will disappear after a few minutes.
There is abnormal sound of refrigerant flowing when just turning on or turning off the unit	Water-running sound can be heard	Normal phenomenon. Abnormal sound will disappear after a few minutes.
There is touching sound of foreign objects or parts inside the unit	The unit gives out abnormal sound	Take out the foreign objects; adjust the position of each part inside the unit; tighten the connection screws; apply some damping gum on the touching parts
Abnormal shake of compressor	Outdoor unit gives out abnormal sound	Adjust the support foot mat of compressor, tighten the bolts
Abnormal sound inside the compressor	Abnormal sound inside the compressor	If add too much refrigerant during maintenance, please reduce refrigerant properly. Replace compressor for other circumstances.

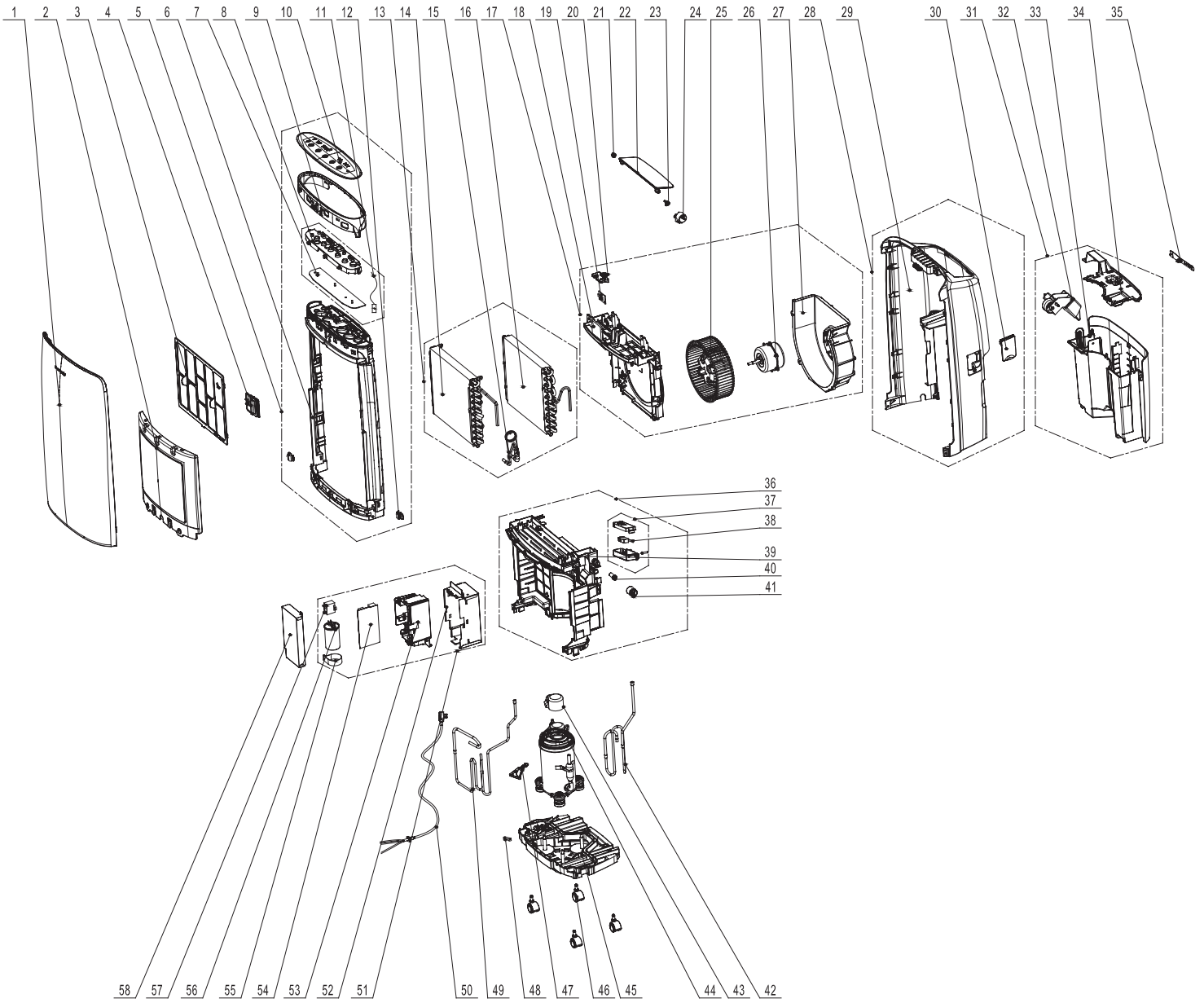


No.	Description	Part Code		Qty
		GDN40AU-K3EBA1A		
		Product Code	CK051024400	
1	Front Panel	20006223	1	
2	Lower Sealplate	26116538	1	
3	Filter Sub-Assay	1112603001	1	
4	Front Panel Clip	2625600214	2	
5	Front Case Assy	00000200082	1	
6	Front Case Sub-Assy	20900700016	1	
7	Display Board	300001000059	1	
8	Display Box	20116072	1	
9	Top Cover	22246535	1	
10	Temperature Sensor (20KT)	390000595	1	
11	Baffle Plate	26116537	1	
12	Heat-exchange Equipment	01106191	1	
13	Evaporator Sub-Assy	01036114	1	
14	Capillary Sub-assy	03006275	1	
15	Condenser Sub-Assy	01136249	1	
16	Front Grill Assy	00014200002	1	
17	Air Guide Bushing	1054420302	1	
18	Guide Louver	10516092	1	
19	Front Grill	22416059	1	
20	Crank	10582070	1	
21	Stepping Motor	1521200601	1	
22	Air Flue Assy	01226021	1	
23	Cover Plate (Temperature & Humidity Sensor)	20126511	1	
24	Detecting Plate	30110104	1	
25	Cover Plate	22436074	1	
26	Centrifugal Fan	10316074	1	
27	Fan Motor	15016072	1	
28	Propeller Housing	22206559	1	
29	Rear Cover Assy	22206572	1	
30	Rear Cover	22206567	1	
31	Cover of drainage hole	22246533	1	
32	Water Tank Assy	20186566	1	
33	Float meter sub-Assy	2611652605	1	
34	Water Tank	20186565	1	
35	Water Tank Cover	22246534	1	
36	Tieline of Power Cord	71020001	1	
37	Water Tray Sub-Assy	20186564	1	
38	Liquid Level Switch Sub-assy	45016014	1	
39	Liquid Level Switch	45016506	1	
40	Water Tray	20186563	1	
41	Rubber Plug	76716054	1	
42	Cover of drainage hole	22246097	1	
43	Adaptor sub-assy	26116155	1	
44	Inhalation Tube Sub-assy	03636283	1	
45	Compressor and Fittings	00106098	1	
46	Chassis Sub-Assy	22226536	1	
47	Castor	24236554	4	
48	Baffle Plate	01356000260	1	
49	Cable Clamp	71010312	1	
50	Discharge Tube Sub-Assy	03636282	1	
51	Power Cord	4002028602	1	
52	Electric Box Assy	10000202220	1	
53	Electric Box Sub-Assy	01700700001	1	
54	Insatallation Box	20116073	1	





GDN40AW-K3EBA1A



The component picture is only for reference; please refer to the actual product.

No.	Description	Part Code	Qty
		GDN40AW-K3EBA1A	
Product Code		CK051024500	
1	Shield Sub-Assy	00016700003	1
2	Lower Sealplate	26116535	1
3	Filter Sub-Assy	11126030	1
4	Baffle Plate	01356000260	1
5	Supporting Strip Sub-Assy	000193000005	1
6	Supporting Strip	24216510	1
7	Display Board	300001000058	1
8	Display Box	20116075	1
9	Decorative Circle	20196058	1
10	Top Plate	01256507B	1
11	Temperature Sensor (20KT)	390000595	1
12	Front Panel Clip	26256002	2
13	Heat-exchange Equipment	01106191	1
14	Evaporator Sub-Assy	01036114	1
15	Capillary Sub-Assy	03006275	1
16	Condenser Sub-Assy	01136249	1
17	Air Flue Assy	00001100048	1
18	Diversion Circle	10376059	1
19	Detecting Plate	30070038	1
20	Baffle Plate (Temperature & Humidity Sensor)	26116222	1
21	Air Guide Bushing	1054420302	1
22	Guide Louver	10516092	1
23	Crank	10582070	1
24	Stepping Motor	1521200601	1
25	Centrifugal Fan	10316074	1
26	Fan Motor	15016072	1
27	Propeller Housing	22206559	1
28	Rear Cover Assy	22206557	1
29	Rear Case	22206560	1
30	Cover of drainage hole	22246533	1
31	Water Tank Assy	20186566	1
32	Float meter Sub-Assy	2611652605	1
33	Water Tank	20186565	1
34	Water Tank Cover	22246534	1
35	Tieline of Power Cord	71020001	1
36	Water Tray Sub-Assy	20186564	1
37	Liquid Level Switch Sub-assy	45016014	1
38	Liquid Level Switch	45016506	1
39	Water Tray	20186563	1
40	Rubber Plug	76716054	1
41	Cover of drainage hole	22246097	1
42	Inhalation Tube Sub-Assy	03636283	1
43	Covering Plate	01256043	1
44	Compressor and Fittings	00106098	1
45	Chassis Sub-Assy	01206522	1
46	Castor	24236554	4
47	Baffle Plate	01356000260	1
48	Cable Clamp	71010312	1
49	Discharge Tube Sub-Assy	03636282	1
50	Power Cord	4002028602	1
51	Electric Box Assy	10000202220	1
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54	Main Board	30131489	1
55	Capacitor Clamp	02141381	1

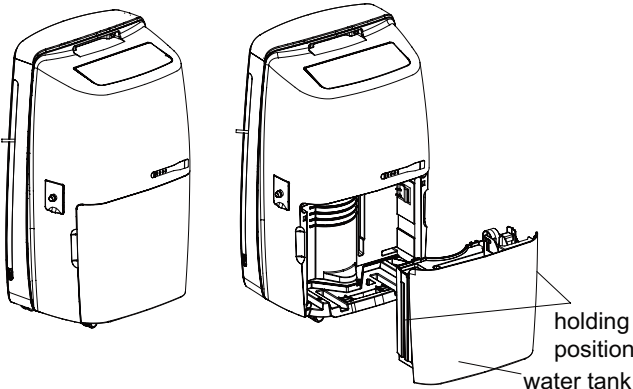
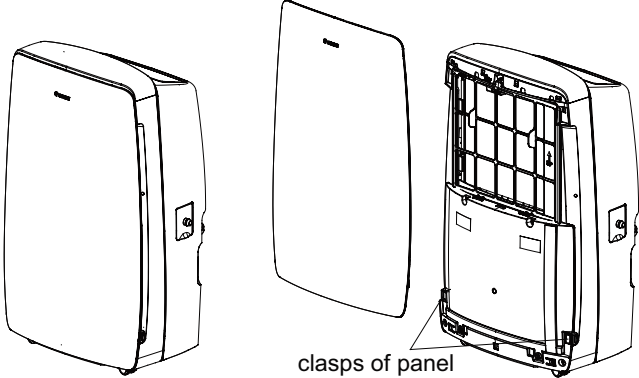
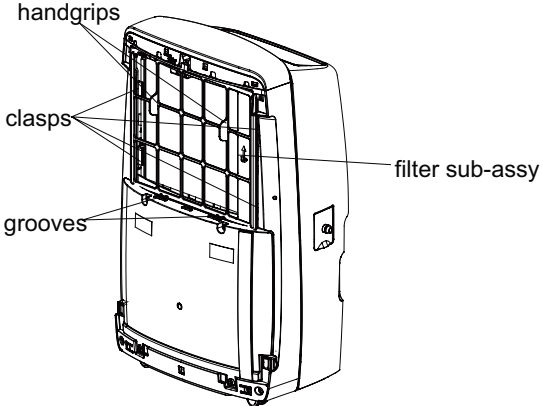
56	Capacitor CBB65	33000081	1
57	Capacitor CBB61S	3301074702	1
58	Electric Box Cover Sub-Assy	00001300016	1

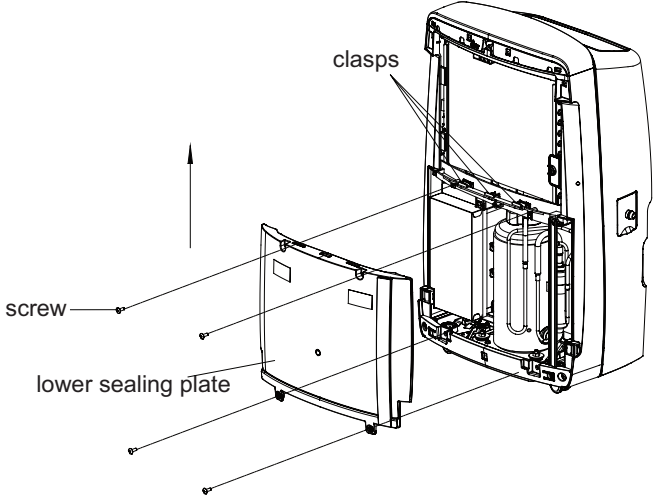
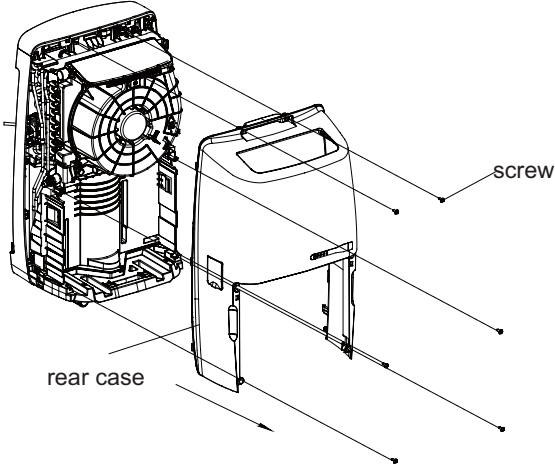
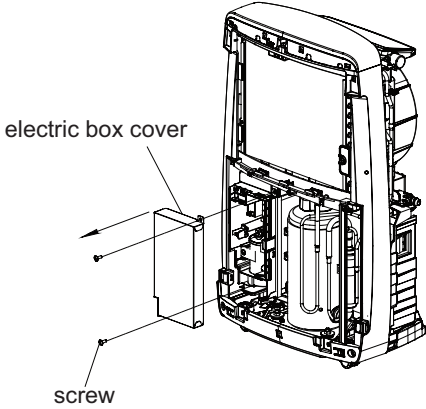
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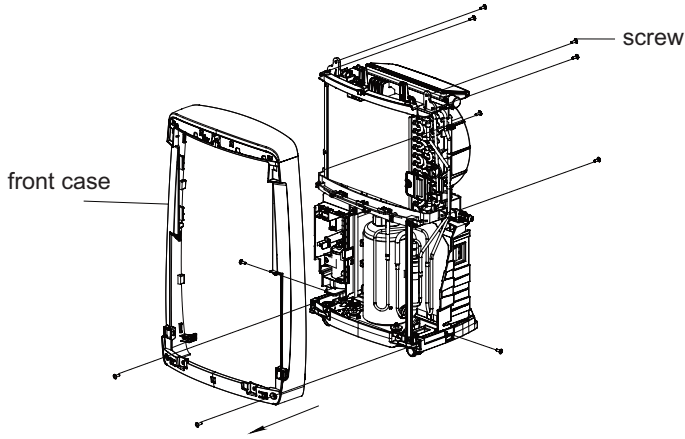
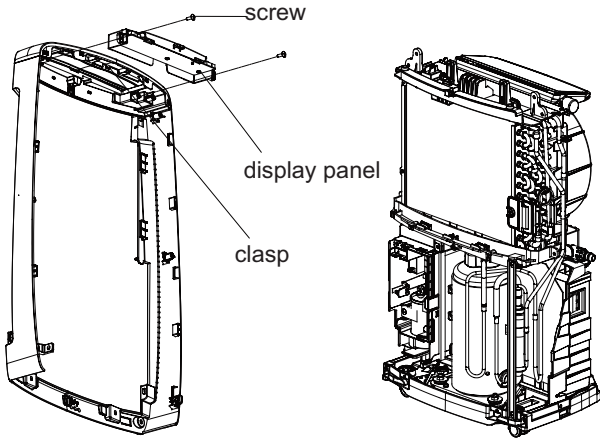
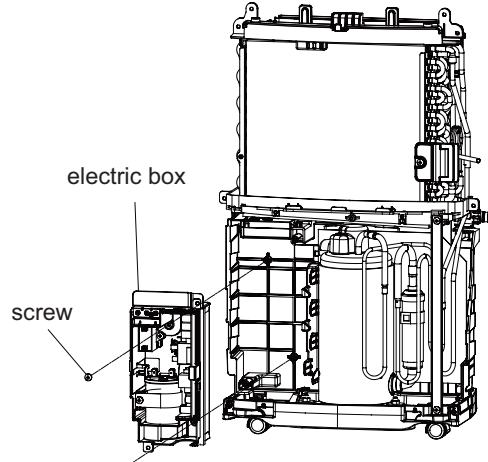
# 10. Removal Procedure

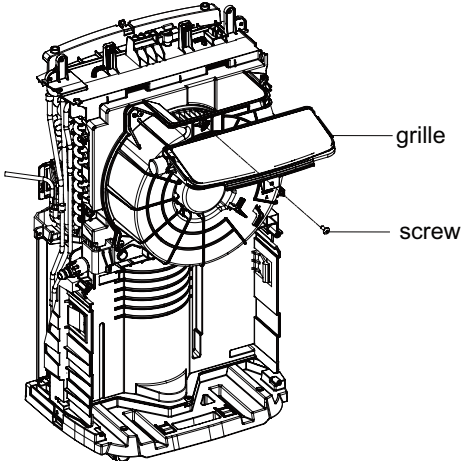
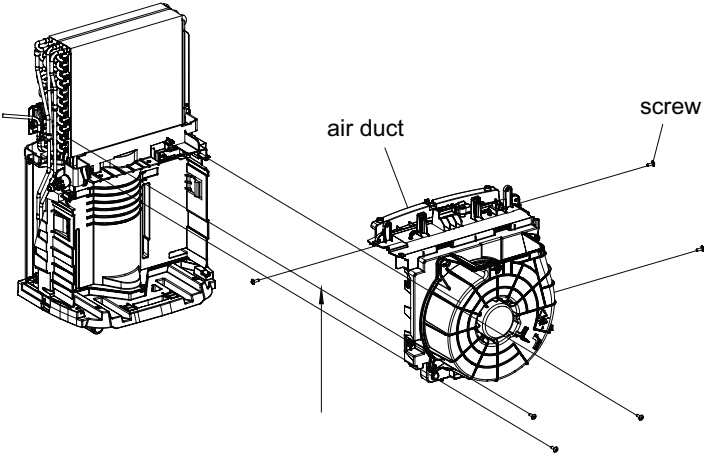
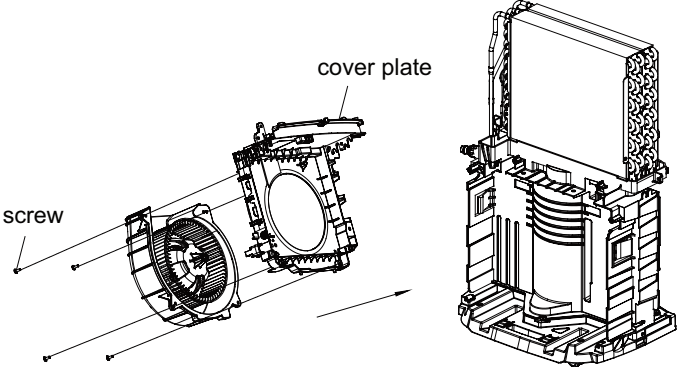
**Warning:** disconnect power supply before removal; discharge the refrigerant completely before unsoldering the pipes.

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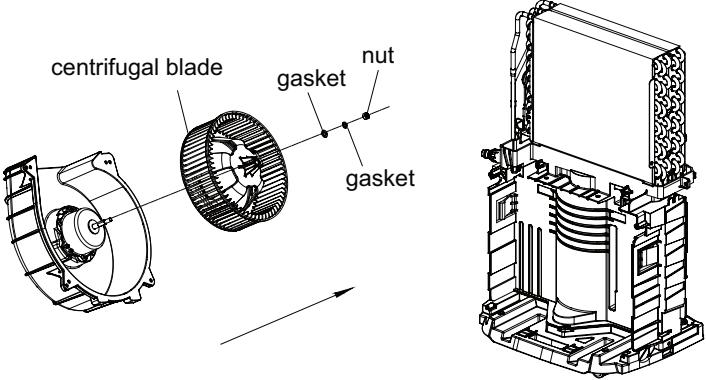
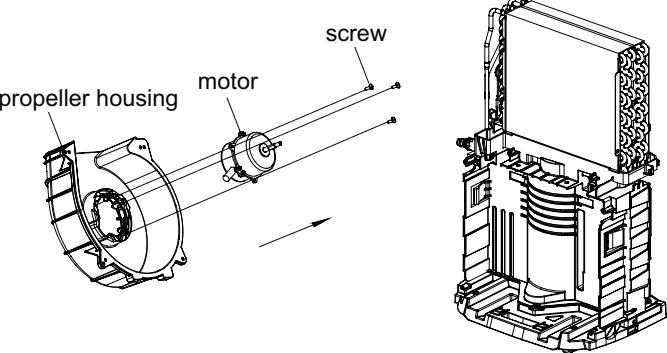
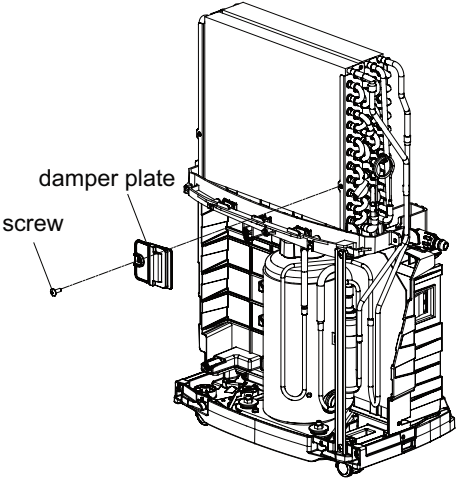
Step	Procedure	Procedure
1. Remove water tank	<p>Hold the holding position at both sides of water tank with both hands to pull it outwards and then remove the water tank.</p>	
2. Remove panel	<p>Press the clasps at both sides of panel with both hands to pull it outwards, lift it upwards and then remove the panel.</p>	
3. Remove filter sub-assy	<p>Hold two handgrips on filter sub-assy to pull it outwards to let it separate from 4 clasps at both side and 2 grooves at the bottom, and then remove the filter sub-assy.</p>	

Step	Procedure
<p>4. Remove lower sealing plate</p>	<p>Remove 4 screws on lower sealing plate, lift it upwards to let it separate from upper 3 clasps, and then remove the lower sealing plate.</p> 
<p>5. Remove rear cover</p>	<p>Remove 6 screws at the back of the case, hold both sides of rear cover, pull it outwards and then remove the rear cover.</p> 
<p>6. Remove electric box cover sub-assy</p>	<p>Remove 2 screws on electric box cover, and then remove the electric box cover.</p> 

Step	Procedure
<p data-bbox="99 220 326 246">7. Remove front case</p> <p data-bbox="224 323 704 519">Remove 2 screws at the front of the front case, 2 screws at both sides and 6 screws at the back side to let connection wires of discharge temperature sensor and display board separate from all grooves. Hold both sides of front case to pull it outwards and then remove the front case.</p>	
<p data-bbox="77 799 337 825">8. Remove display board</p> <p data-bbox="224 891 688 978">Remove 2 screws at both side of display board, pull out the middle clasps and then remove the display board.</p>	
<p data-bbox="94 1316 337 1343">9. Remove electric box</p> <p data-bbox="224 1415 688 1546">Remove 2 screws inside the electric box used for connecting water tray, pull out all wires connecting electric parts inside the electric box, and then remove the electric box.</p>	

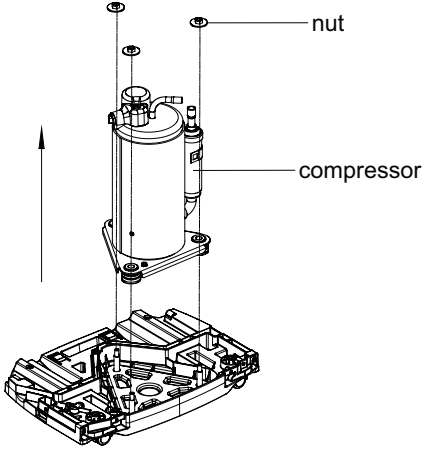
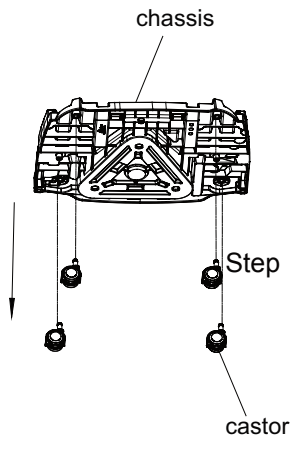
Step	Procedure
10.Remove grille	<p>Remove 1 screw fixing grille, hold both Side of grille and then pull it outwards to Remove it.</p> 
11.Remove air duct	<p>Remove 3 screws fixing the water tray and 3 screws fixing condenser and evaporator, lift up the air duct and then remove it.</p> 
12.Remove cover plate	<p>Remove 4 screws fixed on the propeller housing at the back of the cover plate and then remove the cover plate.</p> 



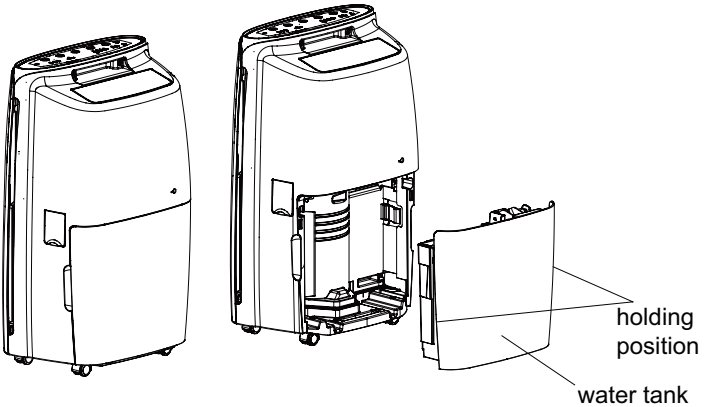
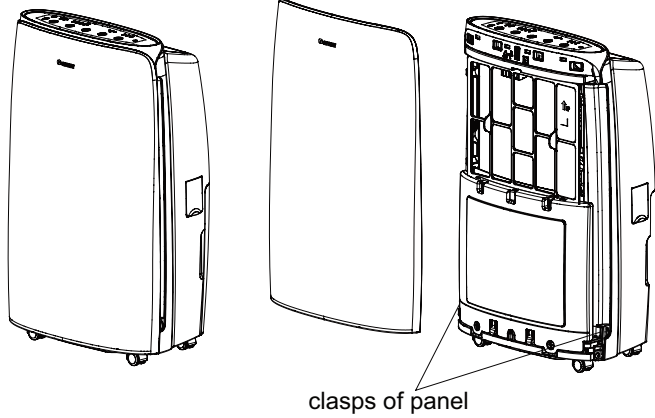
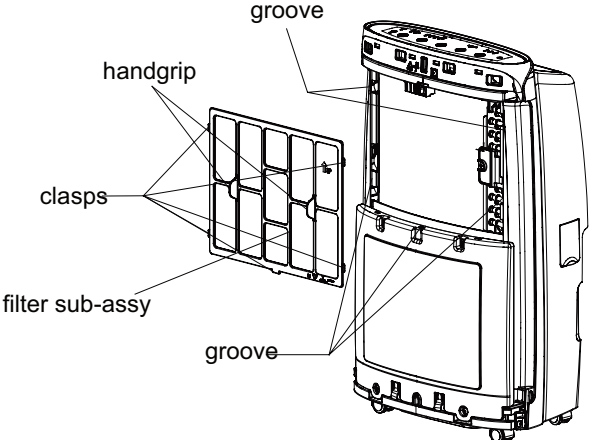
Step	Procedure	Procedure
13.Remove centrifugal blade	Remove nut and 2 gasket fixing the blade at the motor shaft terminal, take out the blade along the motor shaft and then remove the blade sub-assy.	
14.Remove motor	Remove 3 screws fixing the motor and then remove the motor.	
15.Remove damper plate	Remove 1 screw fixing the damper plate and then remove the damper plate.	

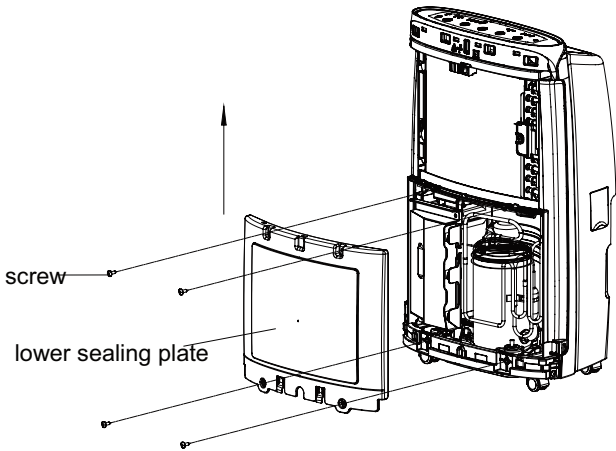
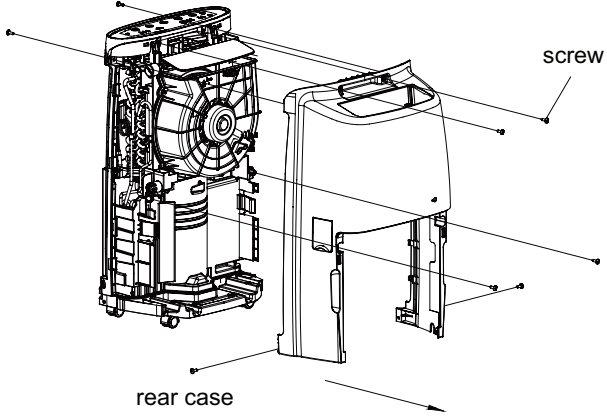
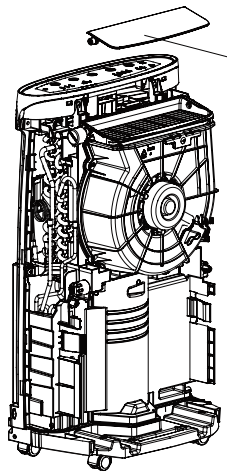
Step	Procedure	Diagram
<p>16. Remove condenser and evaporator</p> <p>a Unsolder the spot weld between suction pipe, discharge pipe and evaporator, condenser, and remove suction pipe and discharge pipe. Unsolder the spot weld between capillary sub-assy and condenser, evaporator, and then remove capillary sub-assy.</p> <p>Note:                      1. Before unsoldering the spot weld, please confirm the refrigerant is discharged completely.                      2. When unsoldering the spot weld of capillary, wrap the capillary with wet cloth to prevent damage to capillary due to high temperature.</p> <p>b Lift it upwards and then remove the evaporator and the condenser.</p>		
<p>17. Remove support rod</p> <p>Remove 2 screws on the support rod and then remove the support rod.</p>		
<p>18. Remove water tray sub-assy</p> <p>Remove one screw connecting water tray and chassis, loose 5 clasps connecting the chassis and then remove the water tray.</p>		

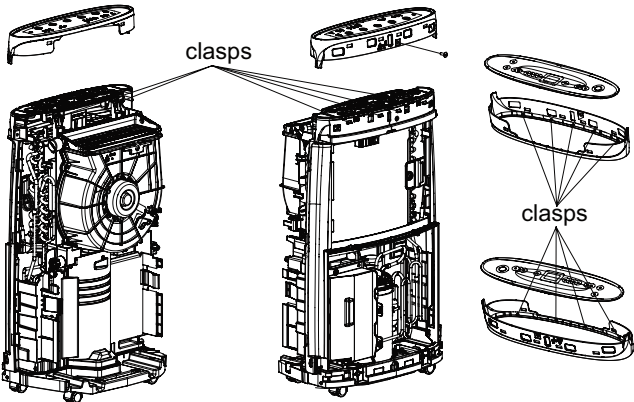
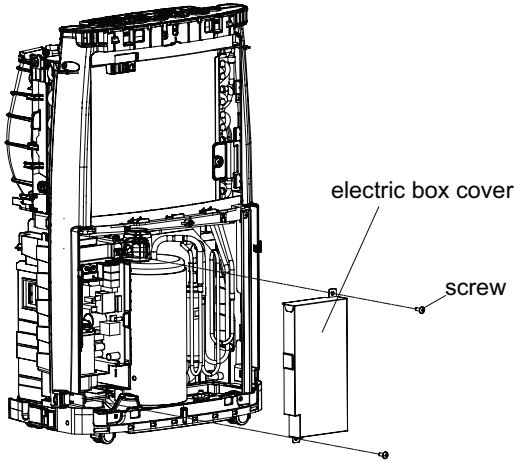
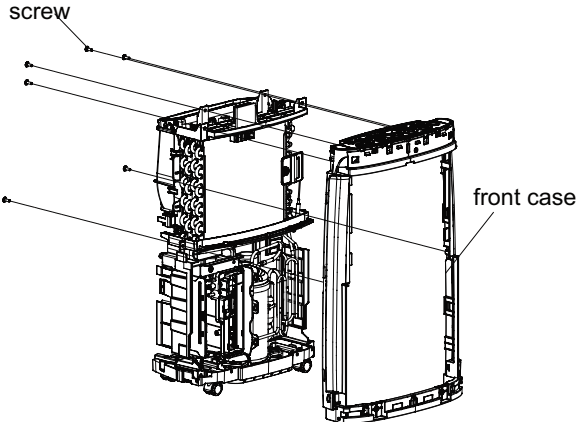


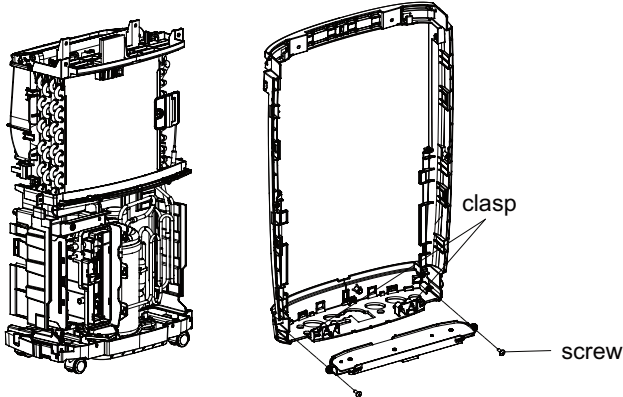
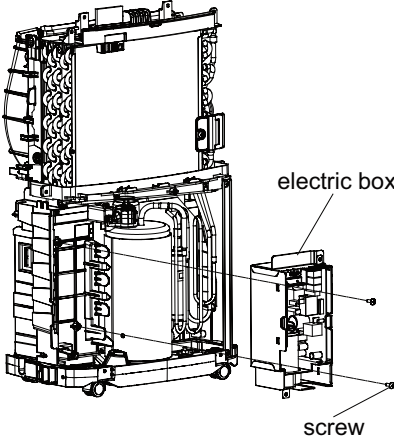
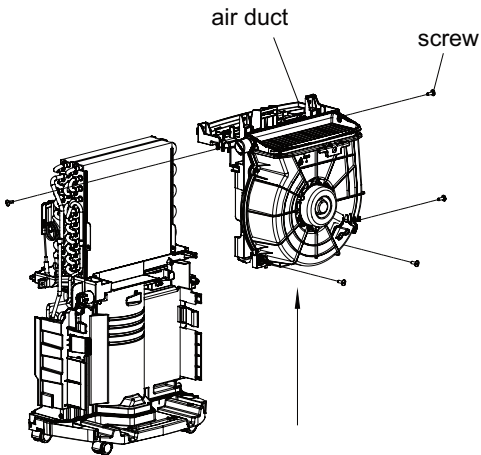
Step	Procedure	
22.Remove compressor and its fittings		
	<p>Remove 2 nuts fixing the compressor, lift up the compressor and then remove the compressor.</p>	
23.Remove castor		
	<p>Pull out 4 castors to remove them.</p>	

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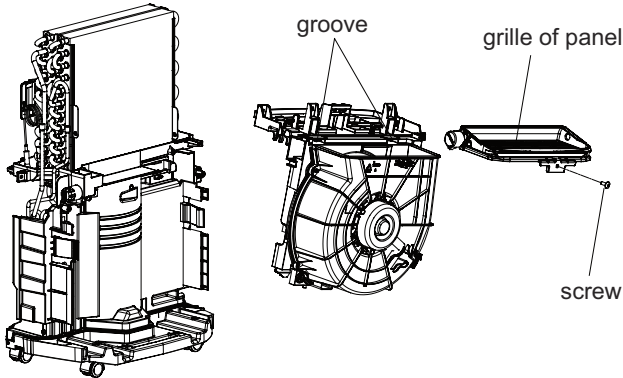
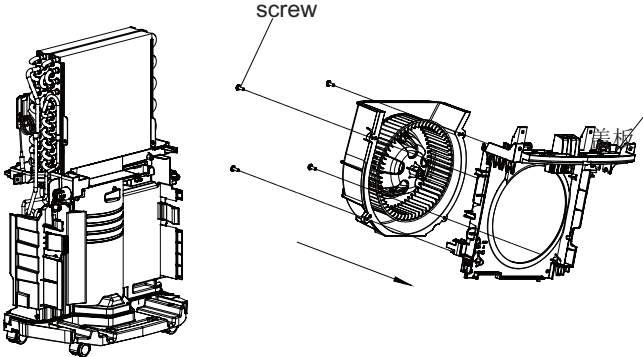
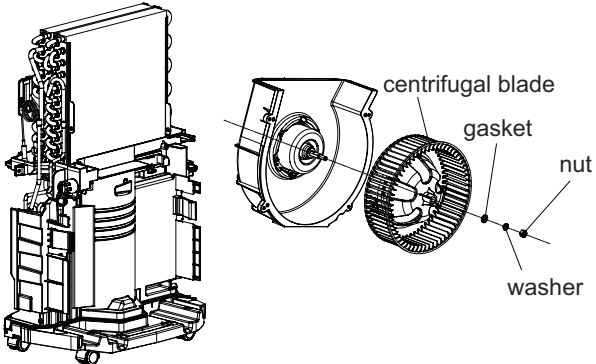
Step	Procedure
<p>1. Remove water tank</p>	<p>Hold the holding position at both sides of water tank with both hands to pull it outwards and then remove the water tank.</p> 
<p>2. Remove panel</p>	<p>Press the clasps at both sides of panel with both hands to pull it outwards, lift it upwards and then remove the panel.</p> <p>Procedur e</p> 
<p>3. Remove filter sub-assy</p>	<p>Hold two handgrips on filter sub-assy to pull it outwards to let it separate from 5 clasps at both side and 5 grooves at the bottom, and then remove the filter sub-assy.</p> 

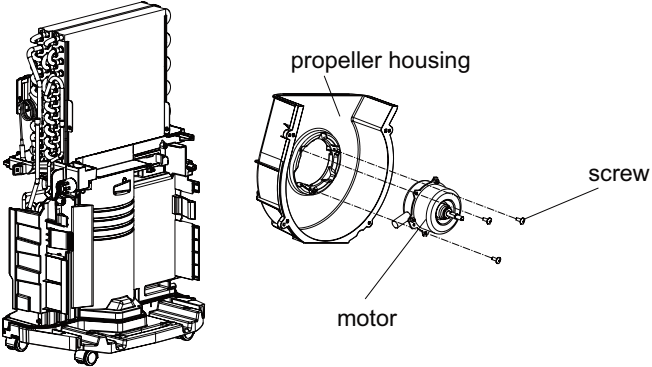
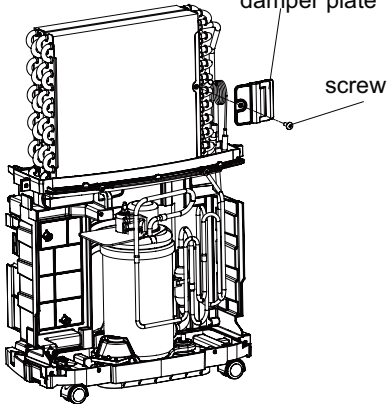
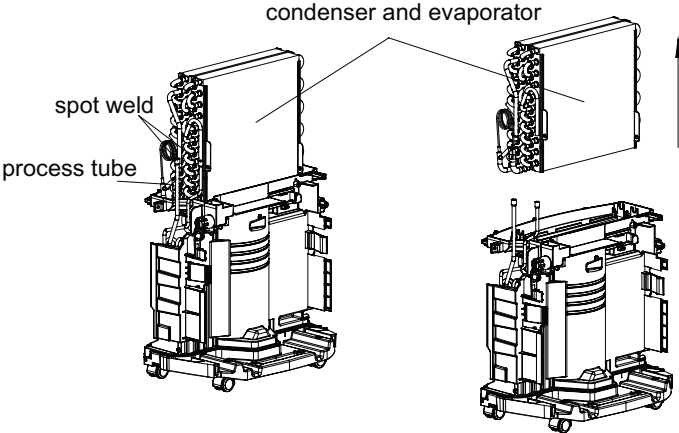
Step	Procedure	Procedure
4.Remove lower sealing plate	<p>Remove 4 screws on lower sealing plate, lift it upwards to let it separate from upper 3 clasps, and then remove the lower sealing plate.</p>	
5.Remove rear cover	<p>Remove 2 screws at the front side of case, 4 screws at the back side and 4 screws at both sides, hold both sides of rear cover, pull it outwards and then remove the rear cover.</p>	
6. Remove horizontal louver	<p>Remove the horizontal louver from left to right direction..</p>	

Step	Procedure	Procedure
7.Remove front case	<p>Remove 2 screws at the front of the front case,pull out 6 screws connecting with support rack sub-assy, and remove top plate and decorative ring. Let the top plate separate from 9 clasps on decorative ring,and then separate the top plate from the decorative ring.</p>	
8.Remove electric box cover	<p>Remove 2 screws fixing the electric box cover,and then remove electric box cover.</p>	
9. Remove support rack sub-assy	<p>Remove 6 screws at the back of front case, make connection wires discharge temperature sensor and display board separate from all groves. Hold both sides of front case to pull it to the front and then remove the front case.</p>	

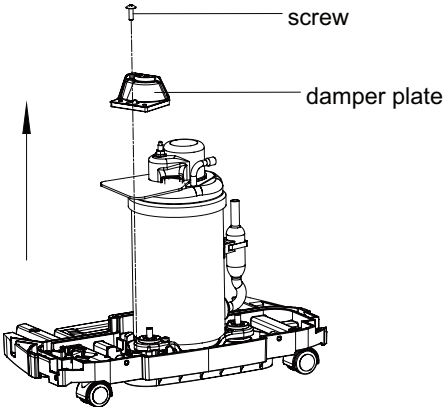
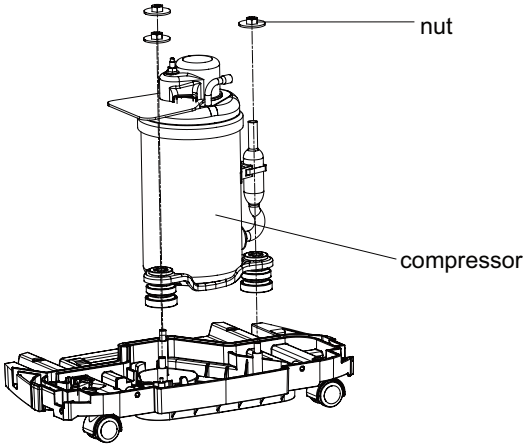
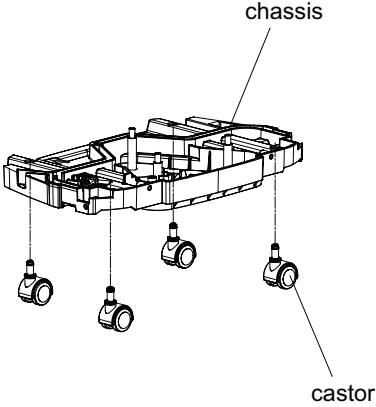
Step	Procedure	Procedure
10.Remove display board	<p>Remove 2 screws at both sides of display board, pull out clasps at both sides and then remove the display board.</p>	
11.Remove electric box	<p>Remove 2 screws inside the electric box connecting the water tray, pull out all wires connecting all electric parts inside the electric box, and then remove the electric box.</p>	
12.Remove air duct	<p>Remove 2 screws fixing the water tray and 3 screws fixing condenser and evaporator, lift up the air duct and then remove it.</p>	



Step	Procedure	Procedure
13.Remove grille	<p>Remove one screw fixing the propeller housing, pull the grille backwards to let it separate from 2 grooves, and then remove the grille.</p>	
14.Remove guide loop	<p>Remove 4 screws fixing the propeller housing at the back of cover plate, and then remove the guide loop.</p>	
15.Remove centrifugal blade	<p>Remove nut and 2 gaskets fixing the Blade at the motor shaft terminal, take out the blade along the motor shaft and then remove the blade sub-assy.</p>	

Step		Procedure
16.Remove motor	Remove 3 screws fixing the motor and then remove the motor.	
17.Remove damper plate	Remove 1 screw fixing the damper plate and then remove the damper plate.	
18.Remove condenser and evaporator	<p>a Unsolder the spot weld between suction pipe, discharge pipe and evaporator, condenser, and remove suction pipe and discharge pipe. Unsolder the spot weld between capillary sub-assy and condenser, evaporator, and then remove capillary sub-assy.</p> <p>Note:</p> <ol style="list-style-type: none"> <li>1. Before unsoldering the spot weld, please Confirm the refrigerant is discharged completely.</li> <li>2. When unsoldering the spot weld of capillary, wrap the capillary with wet cloth to prevent damage to capillary due to high temperature. Seal the discharge pipe outlet and suction pipe outlet with rubber cork or gummed paper to prevent sundries getting into it.</li> </ol> <p>b Lift it upwards and then remove the evaporator and the condenser.</p>	

Step	Procedure	Procedure
19.Remove water tray sub-assy	Remove one screw connecting water tray and chassis, loose 5 clasps connecting the chassis and then remove the water tray.	
20.Remove liquid level switch sub-assy	Loose 4 clasps connecting the water tray, and then remove the liquid level switch sub-assy.	
21.Remove suction pipe sub-assy, discharge pipe sub-assy	Unsolder suction pipe and discharge pipe from the welding position of suction outlet and discharge outlet of compressor, and the remove suction pipe sub-assy and discharge pipe sub-assy.	

Step	Procedure	Procedure
22.Remove damper plate	Remove one screw on the damper plate and then remove the damper plate.	
23.Remove compressor and its fittings	Remove 3 nuts fixing the compressor, lift up the compressor and then remove the compressor.	
24.Remove castor	Pull out 4 castors to remove them.	



## Appendix 2: Resistance Table of Temperature Sensor

Resistance table of temperature sensor (15K)

Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)
-19	138.1	20	18.75	59	3.848	98	1.071
-18	128.6	21	17.93	60	3.711	99	1.039
-17	121.6	22	17.14	61	3.579	100	1.009
-16	115	23	16.39	62	3.454	101	0.98
-15	108.7	24	15.68	63	3.333	102	0.952
-14	102.9	25	15	64	3.217	103	0.925
-13	97.4	26	14.36	65	3.105	104	0.898
-12	92.22	27	13.74	66	2.998	105	0.873
-11	87.35	28	13.16	67	2.896	106	0.848
-10	82.75	29	12.6	68	2.797	107	0.825
-9	78.43	30	12.07	69	2.702	108	0.802
-8	74.35	31	11.57	70	2.611	109	0.779
-7	70.5	32	11.09	71	2.523	110	0.758
-6	66.88	33	10.63	72	2.439	111	0.737
-5	63.46	34	10.2	73	2.358	112	0.717
-4	60.23	35	9.779	74	2.28	113	0.697
-3	57.18	36	9.382	75	2.206	114	0.678
-2	54.31	37	9.003	76	2.133	115	0.66
-1	51.59	38	8.642	77	2.064	116	0.642
0	49.02	39	8.297	78	1.997	117	0.625
1	46.6	40	7.967	79	1.933	118	0.608
2	44.31	41	7.653	80	1.871	119	0.592
3	42.14	42	7.352	81	1.811	120	0.577
4	40.09	43	7.065	82	1.754	121	0.561
5	38.15	44	6.791	83	1.699	122	0.547
6	36.32	45	6.529	84	1.645	123	0.532
7	34.58	46	6.278	85	1.594	124	0.519
8	32.94	47	6.038	86	1.544	125	0.505
9	31.38	48	5.809	87	1.497	126	0.492
10	29.9	49	5.589	88	1.451	127	0.48
11	28.51	50	5.379	89	1.408	128	0.467
12	27.18	51	5.197	90	1.363	129	0.456
13	25.92	52	4.986	91	1.322	130	0.444
14	24.73	53	4.802	92	1.282	131	0.433
15	23.6	54	4.625	93	1.244	132	0.422
16	22.53	55	4.456	94	1.207	133	0.412
17	21.51	56	4.294	95	1.171	134	0.401
18	20.54	57	4.139	96	1.136	135	0.391
19	19.63	58	3.99	97	1.103	136	0.382

Resistance table of temperature sensor (20K)

Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)
-19	181.4	20	25.01	59	5.13	98	1.427
-18	171.4	21	23.9	60	4.948	99	1.386
-17	162.1	22	22.85	61	4.773	100	1.346
-16	153.3	23	21.85	62	4.605	101	1.307
-15	145	24	20.9	63	4.443	102	1.269
-14	137.2	25	20	64	4.289	103	1.233
-13	129.9	26	19.14	65	4.14	104	1.198
-12	123	27	18.13	66	3.998	105	1.164
-11	116.5	28	17.55	67	3.861	106	1.131
-10	110.3	29	16.8	68	3.729	107	1.099
-9	104.6	30	16.1	69	3.603	108	1.069
-8	99.13	31	15.43	70	3.481	109	1.039
-7	94	32	14.79	71	3.364	110	1.01
-6	89.17	33	14.18	72	3.252	111	0.983
-5	84.61	34	13.59	73	3.144	112	0.956
-4	80.31	35	13.04	74	3.04	113	0.93
-3	76.24	36	12.51	75	2.94	114	0.904
-2	72.41	37	12	76	2.844	115	0.88
-1	68.79	38	11.52	77	2.752	116	0.856
0	65.37	39	11.06	78	2.663	117	0.833
1	62.13	40	10.62	79	2.577	118	0.811
2	59.08	41	10.2	80	2.495	119	0.77
3	56.19	42	9.803	81	2.415	120	0.769
4	53.46	43	9.42	82	2.339	121	0.746
5	50.87	44	9.054	83	2.265	122	0.729
6	48.42	45	8.705	84	2.194	123	0.71
7	46.11	46	8.37	85	2.125	124	0.692
8	43.92	47	8.051	86	2.059	125	0.674
9	41.84	48	7.745	87	1.996	126	0.658
10	39.87	49	7.453	88	1.934	127	0.64
11	38.01	50	7.173	89	1.875	128	0.623
12	36.24	51	6.905	90	1.818	129	0.607
13	34.57	52	6.648	91	1.736	130	0.592
14	32.98	53	6.403	92	1.71	131	0.577
15	31.47	54	6.167	93	1.658	132	0.563
16	30.04	55	5.942	94	1.609	133	0.549
17	28.68	56	5.726	95	1.561	134	0.535
18	27.39	57	5.519	96	1.515	135	0.521
19	26.17	58	5.32	97	1.47	136	0.509

Resistance table of temperature sensor (50K)

Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)
-29	853.5	10	98	49	18.34	88	4.75
-28	799.8	11	93.42	50	17.65	89	4.61
-27	750	12	89.07	51	16.99	90	4.47
-26	703.8	13	84.95	52	16.36	91	4.33
-25	660.8	14	81.05	53	15.75	92	4.20
-24	620.8	15	77.35	54	15.17	93	4.08
-23	580.6	16	73.83	55	14.62	94	3.96
-22	548.9	17	70.5	56	14.09	95	3.84
-21	516.6	18	67.34	57	13.58	96	3.73
-20	486.5	19	64.33	58	13.09	97	3.62
-19	458.3	20	61.48	59	12.62	98	3.51
-18	432	21	58.77	60	12.17	99	3.41
-17	407.4	22	56.19	61	11.74	100	3.32
-16	384.5	23	53.74	62	11.32	101	3.22
-15	362.9	24	51.41	63	10.93	102	3.13
-14	342.8	25	49.19	64	10.54	103	3.04
-13	323.9	26	47.08	65	10.18	104	2.96
-12	306.2	27	45.07	66	9.83	105	2.87
-11	289.6	28	43.16	67	9.49	106	2.79
-10	274	29	41.34	68	9.17	107	2.72
-9	259.3	30	39.61	69	8.85	108	2.64
-8	245.6	31	37.96	70	8.56	109	2.57
-7	232.6	32	36.38	71	8.27	110	2.50
-6	220.5	33	34.88	72	7.99	111	2.43
-5	209	34	33.45	73	7.73	112	2.37
-4	198.3	35	32.09	74	7.47	113	2.30
-3	199.1	36	30.79	75	7.22	114	2.24
-2	178.5	37	29.54	76	7.00	115	2.18
-1	169.5	38	28.36	77	6.76	116	2.12
0	161	39	27.23	78	6.54	117	2.07
1	153	40	26.15	79	6.33	118	2.02
2	145.4	41	25.11	80	6.13	119	1.96
3	138.3	42	24.13	81	5.93	120	1.91
4	131.5	43	23.19	82	5.75	121	1.86
5	125.1	44	22.29	83	5.57	122	1.82
6	119.1	45	21.43	84	5.39	123	1.77
7	113.4	46	20.6	85	5.22	124	1.73
8	108	47	19.81	86	5.06	125	1.68
9	102.8	48	19.06	87	4.90	126	1.64



### Appendix 3: Resistance Value Table of Humidity Sensor

HIS-06 temperature and humidity characteristic 5°C ~ 14°C

Unit:KΩ

Relative humidity %RH	Temperature (°C)									
	5°C	6°C	7°C	8°C	9°C	10°C	11°C	12°C	13°C	14°C
90	5.35	4.92	4.55	4.23	3.95	3.70	3.47	3.25	3.05	2.87
89	5.80	5.33	4.93	4.58	4.27	4.00	3.74	3.51	3.29	3.09
88	6.29	5.77	5.33	4.95	4.62	4.32	4.03	3.78	3.54	3.32
87	6.82	6.25	5.77	5.36	4.99	4.66	4.35	4.08	3.82	3.58
86	7.40	6.78	6.25	5.80	5.40	5.04	4.70	4.40	4.11	3.85
85	8.03	7.35	6.78	6.28	5.84	5.45	5.09	4.75	4.45	4.16
84	8.71	7.97	7.35	6.81	6.33	5.91	5.50	5.14	4.80	4.49
83	9.44	8.65	7.97	7.39	6.87	6.41	5.96	5.56	5.19	4.84
82	10.25	9.39	8.65	8.02	7.46	6.96	6.47	6.03	5.62	5.24
81	11.13	10.19	9.40	8.71	8.10	7.56	7.03	6.54	6.09	5.68
80	12.09	11.07	10.21	9.46	8.80	8.21	7.62	7.08	6.59	6.13
79	13.14	12.03	11.09	10.28	9.57	8.93	8.28	7.70	7.16	6.66
78	14.27	13.07	12.05	11.17	10.40	9.70	8.99	8.35	7.75	7.20
77	15.50	14.20	13.10	12.14	11.30	10.55	9.78	9.07	8.43	7.83
76	16.84	15.43	14.24	13.21	12.30	11.48	10.64	9.87	9.16	8.51
75	18.31	16.78	15.49	14.37	13.38	12.50	11.58	10.75	9.98	9.26
74	19.91	18.25	16.85	15.64	14.57	13.62	12.62	11.72	10.89	10.12
73	21.67	19.87	18.35	17.04	15.88	14.84	13.71	12.67	11.72	10.84
72	23.61	21.66	20.00	18.57	17.31	16.18	14.98	13.90	12.89	11.96
71	25.78	23.64	21.84	20.27	18.89	17.66	16.35	15.16	14.06	13.05
70	28.15	25.82	23.85	22.15	20.65	19.30	17.91	16.63	15.46	14.37
69	30.78	28.24	26.10	24.24	22.60	21.13	19.60	18.19	16.91	15.71
68	33.69	30.92	28.58	26.55	24.76	23.16	21.48	19.94	18.53	17.22
67	36.90	33.88	31.33	29.11	27.16	25.42	23.56	21.86	20.29	18.85
66	40.45	37.16	34.37	31.96	29.84	27.93	25.83	23.92	22.15	20.52
65	44.38	40.78	37.74	35.11	32.78	30.70	28.42	26.34	24.42	22.65
64	48.75	44.81	41.48	38.59	36.05	33.77	31.24	28.93	26.80	24.83
63	53.64	49.31	45.65	42.48	39.68	37.17	34.34	31.74	29.36	27.15
62	59.14	54.36	50.32	46.82	43.73	40.97	37.83	34.96	32.32	29.87
61	65.31	60.02	55.55	51.68	48.26	45.20	41.70	38.51	35.58	32.86
60	72.27	66.40	61.43	57.13	53.33	49.94	46.07	42.53	39.28	36.27
59	80.13	73.58	68.04	63.25	59.01	55.23	50.94	47.03	43.43	40.10
58	88.92	81.61	75.43	70.08	65.36	61.14	56.40	52.08	48.11	44.43
57	98.86	90.68	83.77	77.78	72.50	67.78	62.49	57.67	53.23	49.12
56	112.59	102.79	94.50	87.33	81.00	75.33	69.42	64.03	59.07	54.48
55	122.69	112.51	103.91	96.45	89.88	84.00	77.42	71.41	65.88	60.76
54	137.09	125.76	116.19	107.89	100.57	94.03	86.69	79.99	73.82	68.11
53	153.46	140.88	130.25	121.03	112.91	105.64	97.26	89.61	82.58	76.06
52	172.19	158.19	146.35	136.10	127.05	118.96	109.52	100.90	92.97	85.63
51	193.69	178.04	164.81	153.36	143.25	134.21	123.35	113.43	104.31	95.86
50	218.48	200.85	185.94	173.02	161.63	151.44	139.14	127.90	117.57	108.01
49	247.23	227.16	210.19	195.49	182.52	170.92	156.84	143.98	132.15	121.20
48	278.74	256.20	237.15	220.64	206.08	193.06	177.34	163.00	149.80	137.58
47	315.50	289.95	268.35	249.64	233.14	218.37	200.56	184.30	169.34	155.49
46	357.93	328.94	304.43	283.20	264.47	247.72	227.57	209.18	192.25	176.59
45	406.44	373.72	346.05	322.08	300.94	282.03	259.22	238.40	219.24	201.51
44	463.66	426.44	394.96	367.70	343.66	322.14	296.25	272.62	250.87	230.74
43	531.25	488.59	452.53	421.28	393.73	369.08	339.44	312.38	287.50	264.45
42	611.22	562.01	520.40	484.35	452.55	424.11	390.24	359.31	330.86	304.52
41	707.78	650.29	601.68	559.58	522.44	489.21	450.38	414.92	382.31	352.11
40	823.98	756.22	698.93	649.30	605.53	566.37	521.46	480.46	442.74	407.81
39	962.72	882.62	814.90	756.23	704.48	658.19	604.79	556.03	511.18	469.66

38	1128.50	1033.61	953.39	883.90	822.61	767.78	704.83	647.37	594.51	545.56
37	1325.87	1213.40	1118.31	1035.94	963.29	898.30	823.48	755.17	692.34	634.16
36	1563.51	1430.14	1317.38	1219.71	1133.55	1056.48	967.04	885.39	810.28	740.74
35	1855.67	1695.83	1560.69	1443.63	1340.37	1248.00	1140.34	1042.06	951.64	867.93
34	2213.60	2020.33	1856.92	1715.37	1590.51	1478.82	1349.81	1232.04	1123.70	1023.39
33	2665.63	2426.92	2225.10	2050.27	1896.06	1758.12	1605.77	1466.69	1338.74	1220.28
32	3230.73	2933.36	2681.95	2464.17	2272.06	2100.23	1916.82	1749.39	1595.37	1452.76
31	3962.78	3585.59	3266.69	2990.44	2746.77	2528.80	2308.12	2106.66	1921.33	1749.74
30	4915.40	4431.65	4022.65	3668.35	3355.84	3076.30	2801.20	2550.06	2319.03	2105.13
29	6180.16	5548.66	5014.73	4552.22	4144.26	3779.32	3431.59	3114.13	2822.10	2551.72
28	7874.08	7035.10	6325.74	5711.27	5169.27	4684.43	4243.82	3841.57	3471.54	3128.95
27	10162.49	9029.08	8070.80	7240.70	6508.50	5853.53	5293.25	4781.75	4311.22	3875.57
26	13243.42	11702.63	10399.92	9271.46	8276.08	7385.69	6658.01	5993.68	5382.56	4816.75
25	17366.01	15270.67	13499.09	11964.48	10610.86	9400.00	8447.52	7577.98	6778.07	6037.48
24	22845.46	20023.30	17637.20	15570.26	13747.10	12116.22	10866.57	9725.72	8676.25	7704.59
23	30130.06	26367.98	23187.18	20431.85	18001.48	15827.43	14156.73	12631.50	11228.43	9929.38
22	39673.45	34712.87	30518.76	26885.65	23681.03	20814.39	18624.92	16626.08	14787.33	13084.91
21	51880.00	45447.42	40008.75	35297.56	31142.00	27424.72	24504.12	21837.82	19385.06	17114.16
20	68057.37	59623.21	52492.24	46315.10	40866.49	35992.53	32084.71	28517.14	25235.30	22196.79

HIS-06 temperature and humidity characteristic 15°C ~24°C

Unit:KQ

Relative humidity	Temperature (°C)									
	15°C	16°C	17°C	18°C	19°C	20°C	21°C	22°C	23°C	24°C
90	2.70	2.56	2.43	2.31	2.19	2.08	1.99	1.91	1.83	1.75
89	2.91	2.76	2.61	2.48	2.35	2.23	2.13	2.04	1.95	1.86
88	3.12	2.96	2.80	2.66	2.52	2.39	2.28	2.18	2.08	1.98
87	3.36	3.18	3.01	2.85	2.70	2.56	2.44	2.33	2.22	2.12
86	3.61	3.42	3.23	3.06	2.90	2.75	2.62	2.50	2.38	2.27
85	3.90	3.69	3.49	3.30	3.12	2.95	2.81	2.67	2.54	2.42
84	4.20	3.97	3.76	3.55	3.36	3.18	3.03	2.88	2.74	2.61
83	4.52	4.28	4.05	3.83	3.63	3.43	3.26	3.10	2.94	2.79
82	4.89	4.63	4.38	4.14	3.92	3.71	3.52	3.33	3.16	2.99
81	5.29	5.00	4.73	4.48	4.24	4.01	3.80	3.60	3.42	3.23
80	5.70	5.39	5.10	4.83	4.57	4.33	4.10	3.88	3.68	3.48
79	6.19	5.85	5.53	5.22	4.94	4.67	4.41	4.17	3.94	3.72
78	6.69	6.32	5.96	5.63	5.32	5.02	4.75	4.49	4.24	4.01
77	7.27	6.85	6.46	6.09	5.74	5.41	5.11	4.83	4.56	4.31
76	7.90	7.44	7.00	6.59	6.20	5.83	5.51	5.21	4.92	4.65
75	8.60	8.08	7.60	7.14	6.71	6.30	5.95	5.62	5.30	4.99
74	9.40	8.82	8.28	7.77	7.29	6.83	6.45	6.09	5.74	5.41
73	10.02	9.44	8.89	8.38	7.89	7.43	7.01	6.60	6.21	5.84
72	11.10	10.43	9.79	9.19	8.63	8.09	7.62	7.17	6.74	6.33
71	12.10	11.36	10.67	10.02	9.40	8.82	8.31	7.82	7.36	6.92
70	13.36	12.52	11.72	10.98	10.27	9.60	9.03	8.49	7.97	7.48
69	14.60	13.67	12.79	11.97	11.19	10.45	9.82	9.23	8.66	8.11
68	16.00	14.96	13.99	13.07	12.20	11.37	10.68	10.02	9.39	8.78
67	17.50	16.35	15.27	14.26	13.30	12.39	11.61	10.86	10.15	9.47
66	19.00	17.76	16.60	15.51	14.47	13.49	12.64	11.83	11.05	10.31
65	21.00	19.59	18.26	17.01	15.82	14.70	13.76	12.86	12.01	11.19
64	23.00	21.43	19.96	18.57	17.25	16.00	14.98	14.00	13.06	12.16
63	25.10	23.38	21.77	20.24	18.80	17.44	16.31	15.24	14.22	13.24
62	27.60	25.66	23.84	22.13	20.51	18.97	17.73	16.55	15.42	14.34
61	30.33	28.17	26.14	24.23	22.42	20.71	19.37	18.10	16.88	15.72
60	33.47	31.05	28.78	26.64	24.62	22.70	21.24	19.84	18.50	17.23
59	37.00	34.31	31.77	29.39	27.13	24.99	23.37	21.83	20.36	18.95
58	41.00	38.00	35.18	32.52	30.00	27.61	25.82	24.11	22.47	20.90
57	45.30	41.99	38.88	35.95	33.18	30.54	28.59	26.72	24.94	23.24

56	50.20	46.55	43.12	39.89	36.83	33.93	31.76	29.69	27.71	25.82
55	56.00	51.92	48.08	44.47	41.05	37.80	35.35	33.02	30.79	28.65
54	62.80	58.20	53.88	49.80	45.95	42.29	39.51	36.87	34.34	31.92
53	70.00	64.95	60.21	55.74	51.51	47.50	44.33	41.31	38.42	35.65
52	78.80	73.12	67.79	62.76	58.00	53.49	49.86	46.40	43.10	39.94
51	88.00	81.79	75.97	70.47	65.27	60.34	56.11	52.08	48.23	44.54
50	99.10	92.12	85.57	79.39	73.55	68.00	63.15	58.52	54.10	49.86
49	111.00	103.28	96.04	89.20	82.74	76.61	70.94	65.54	60.38	55.44
48	126.20	117.27	108.88	100.97	93.48	86.38	79.89	73.71	67.79	62.13
47	142.60	132.48	122.97	114.00	105.52	97.48	90.16	83.18	76.51	70.12
46	162.00	150.38	139.46	129.16	119.43	110.19	101.62	93.45	85.64	78.17
45	185.00	171.49	158.81	146.85	135.53	124.80	115.00	105.66	96.74	88.20
44	212.00	196.23	181.41	167.45	154.23	141.70	130.18	119.19	108.69	98.64
43	243.00	224.65	207.41	191.15	175.78	161.19	148.03	135.48	123.49	112.01
42	280.00	258.38	238.08	218.93	200.82	183.64	168.64	154.32	140.65	127.56
41	324.00	298.37	274.29	251.59	230.12	209.75	192.53	176.11	160.43	145.41
40	375.30	344.95	316.43	289.55	264.12	240.00	220.30	201.52	183.57	166.39
39	431.00	395.97	363.07	332.05	302.71	274.87	251.94	230.08	209.19	189.19
38	500.00	458.51	419.54	382.80	348.04	315.07	289.04	264.21	240.49	217.78
37	580.00	531.11	485.18	441.88	400.92	362.06	332.09	303.52	276.21	250.07
36	676.00	618.14	563.79	512.55	464.08	418.09	383.52	350.57	319.07	288.92
35	790.00	721.80	657.74	597.34	540.20	486.00	445.77	407.41	370.75	335.66
34	930.00	848.96	772.84	701.08	633.19	568.78	521.38	476.19	433.01	391.66
33	1110.00	1011.10	918.19	830.60	747.75	669.14	613.58	560.59	509.97	461.49
32	1320.00	1201.45	1090.09	985.09	885.78	791.56	725.62	662.75	602.68	545.17
31	1590.00	1444.80	1308.40	1179.80	1058.15	942.75	863.43	787.81	715.55	646.36
30	1906.00	1731.91	1568.38	1414.20	1268.36	1130.00	1034.60	943.64	856.73	773.51
29	2300.00	2089.81	1892.37	1706.22	1530.13	1363.08	1244.55	1131.54	1023.56	920.17
28	2810.00	2550.31	2306.37	2076.38	1858.82	1652.43	1505.84	1366.07	1232.52	1104.65
27	3470.00	3144.23	2838.22	2549.70	2276.79	2017.87	1836.86	1664.27	1499.35	1341.45
26	4290.00	3885.50	3505.53	3147.28	2808.41	2486.92	2253.64	2031.21	1818.67	1615.18
25	5348.00	4843.01	4368.65	3921.40	3498.35	3097.00	2802.48	2521.66	2253.33	1996.42
24	6800.00	6152.28	5543.84	4970.19	4427.56	3912.77	3538.27	3181.20	2840.01	2513.33
23	8720.00	7888.61	7107.64	6371.32	5674.82	5014.05	4529.95	4068.38	3627.32	3205.04
22	11500.00	10371.38	9311.21	8311.65	7366.14	6469.15	5839.63	5239.39	4665.85	4116.71
21	15000.00	13512.80	12115.79	10798.65	9552.74	8370.76	7546.29	6760.17	6009.01	5289.82
20	19368.00	17441.37	15631.58	13925.26	12311.23	10780.00	9716.41	8702.31	7733.29	6805.52

HIS-06 temperature and humidity characteristic 25°C ~ 34°C

Unit:KQ

Relative humidity	Temperature (°C)									
	25°C	26°C	27°C	28°C	29°C	30°C	31°C	32°C	33°C	34°C
90	1.68	1.62	1.57	1.52	1.47	1.42	1.37	1.33	1.28	1.24
89	1.78	1.72	1.66	1.61	1.55	1.50	1.45	1.40	1.36	1.31
88	1.89	1.83	1.76	1.70	1.65	1.59	1.54	1.49	1.44	1.39
87	2.02	1.95	1.88	1.81	1.74	1.68	1.63	1.57	1.52	1.47
86	2.16	2.08	2.00	1.93	1.85	1.78	1.72	1.66	1.61	1.55
85	2.30	2.21	2.13	2.05	1.97	1.89	1.82	1.76	1.70	1.64
84	2.48	2.38	2.28	2.19	2.10	2.01	1.94	1.87	1.80	1.73
83	2.65	2.54	2.43	2.33	2.24	2.14	2.06	1.98	1.91	1.83
82	2.83	2.71	2.60	2.49	2.38	2.28	2.19	2.11	2.02	1.94
81	3.06	2.93	2.80	2.67	2.55	2.44	2.34	2.24	2.15	2.06
80	3.28	3.14	3.00	2.86	2.73	2.60	2.49	2.38	2.28	2.18
79	3.51	3.35	3.20	3.05	2.91	2.78	2.65	2.54	2.42	2.31
78	3.78	3.61	3.44	3.28	3.12	2.97	2.83	2.70	2.57	2.45
77	4.06	3.87	3.69	3.51	3.34	3.17	3.03	2.88	2.74	2.61
76	4.38	4.17	3.97	3.77	3.58	3.40	3.23	3.07	2.92	2.77
75	4.70	4.47	4.25	4.04	3.84	3.64	3.46	3.28	3.11	2.94
74	5.09	4.83	4.59	4.35	4.12	3.90	3.70	3.51	3.32	3.14

73	5.49	5.21	4.94	4.68	4.43	4.19	3.97	3.75	3.54	3.34
72	5.93	5.62	5.33	5.04	4.77	4.50	4.26	4.02	3.80	3.57
71	6.49	6.13	5.79	5.46	5.14	4.84	4.57	4.32	4.07	3.83
70	7.00	6.61	6.24	5.88	5.53	5.20	4.91	4.63	4.35	4.09
69	7.59	7.16	6.75	6.35	5.96	5.59	5.27	4.97	4.67	4.38
68	8.20	7.73	7.28	6.84	6.42	6.01	5.67	5.34	5.01	4.70
67	8.82	8.32	7.83	7.36	6.91	6.47	6.10	5.74	5.38	5.04
66	9.60	9.03	8.49	7.96	7.46	6.97	6.57	6.18	5.80	5.43
65	10.40	9.78	9.18	8.61	8.06	7.52	7.08	6.65	6.24	5.84
64	11.30	10.62	9.96	9.33	8.72	8.13	7.65	7.19	6.74	6.30
63	12.30	11.55	10.82	10.12	9.45	8.80	8.27	7.75	7.26	6.78
62	13.30	12.49	11.71	10.96	10.23	9.53	8.96	8.41	7.87	7.35
61	14.60	13.69	12.81	11.97	11.15	10.36	9.73	9.12	8.53	7.96
60	16.00	14.99	14.02	13.08	12.17	11.30	10.61	9.94	9.29	8.66
59	17.60	16.48	15.40	14.35	13.35	12.38	11.61	10.87	10.15	9.46
58	19.40	18.15	16.95	15.79	14.68	13.60	12.75	11.93	11.13	10.36
57	21.60	20.18	18.81	17.49	16.22	14.99	14.05	13.14	12.26	11.41
56	24.00	22.40	20.86	19.37	17.94	16.55	15.50	14.48	13.50	12.54
55	26.60	24.81	23.10	21.44	19.84	18.30	17.13	16.00	14.90	13.83
54	29.60	27.59	25.66	23.81	22.01	20.28	18.96	17.69	16.46	15.26
53	33.00	30.74	28.57	26.48	24.46	22.52	21.04	19.62	18.24	16.90
52	36.90	34.35	31.90	29.53	27.25	25.05	23.38	21.77	20.21	18.69
51	41.00	38.18	35.47	32.86	30.34	27.90	26.03	24.22	22.46	20.76
50	45.80	42.62	39.55	36.60	33.75	31.00	28.91	26.89	24.93	23.03
49	50.70	47.20	43.83	40.59	37.45	34.43	32.08	29.81	27.61	25.47
48	56.70	52.72	48.90	45.21	41.66	38.22	35.62	33.10	30.67	28.30
47	64.00	59.37	54.91	50.61	46.46	42.46	39.57	36.78	34.07	31.45
46	71.00	65.89	60.97	56.22	51.65	47.23	43.99	40.85	37.81	34.86
45	80.00	74.13	68.48	63.03	57.78	52.70	49.02	45.46	42.00	38.65
44	89.00	82.54	76.32	70.33	64.54	58.96	54.75	50.69	46.74	42.92
43	101.00	93.48	86.25	79.28	72.55	66.06	61.28	56.65	52.17	47.82
42	115.00	106.23	97.79	89.66	81.81	74.23	68.69	63.33	58.14	53.10
41	131.00	120.81	111.01	101.56	92.44	83.64	77.33	71.23	65.31	59.57
40	149.90	138.01	126.56	115.53	104.88	94.60	87.37	80.37	73.58	66.99
39	170.00	156.52	143.54	131.04	118.97	107.32	99.08	91.11	83.38	75.88
38	196.00	180.09	164.79	150.04	135.81	122.06	112.71	103.65	94.88	86.37
37	225.00	206.61	188.92	171.87	155.41	139.52	128.86	118.54	108.53	98.82
36	260.00	238.50	217.80	197.86	178.62	160.04	147.90	136.16	124.77	113.73
35	302.00	276.83	252.61	229.27	206.76	185.00	170.96	157.37	144.19	131.41
34	352.00	322.66	294.42	267.21	240.96	215.59	199.30	183.53	168.24	153.40
33	415.00	380.13	346.58	314.24	283.04	252.90	233.57	214.84	196.70	179.09
32	490.00	448.82	409.19	371.01	334.16	298.57	275.69	253.53	232.06	211.23
31	580.00	531.32	484.48	439.35	395.79	353.72	326.76	300.66	275.37	250.83
30	693.69	634.81	578.16	523.57	470.89	420.00	387.67	356.36	326.02	296.58
29	821.00	751.60	684.82	620.48	558.38	498.40	459.39	421.61	385.00	349.49
28	982.00	898.01	817.20	739.32	664.18	591.58	544.87	499.65	455.82	413.29
27	1190.00	1085.85	985.63	889.06	795.87	705.85	649.51	594.96	542.09	490.80
26	1420.00	1297.43	1179.49	1065.83	956.17	850.22	781.68	715.32	651.00	588.59
25	1750.00	1597.27	1450.30	1308.67	1172.02	1040.00	954.91	872.53	792.68	715.22
24	2200.00	2005.83	1818.99	1638.94	1465.21	1297.38	1189.66	1085.37	984.29	886.22
23	2800.00	2551.47	2312.32	2081.87	1859.50	1644.68	1506.06	1371.84	1241.75	1115.55
22	3590.00	3270.74	2963.54	2667.51	2381.86	2105.90	1925.97	1751.75	1582.89	1419.07
21	4600.00	4191.56	3798.54	3419.81	3054.38	2701.33	2467.06	2240.24	2020.39	1807.10
20	5915.63	5385.23	4874.84	4383.03	3908.47	3450.00	3152.84	2865.12	2586.25	2315.70

HIS-06 Characteristic of temperature and humidity 35°C ~ 45°C

Unit:KΩ

Relative humidity	Temperature (°C)										
	35°C	36°C	37°C	38°C	39°C	40°C	41°C	42°C	43°C	44°C	45°C
90	1.20	1.17	1.14	1.11	1.08	1.05	1.02	1.00	0.98	0.95	0.93
89	1.27	1.23	1.20	1.16	1.13	1.10	1.07	1.05	1.02	1.00	0.97
88	1.34	1.30	1.26	1.22	1.19	1.15	1.12	1.09	1.07	1.04	1.02
87	1.42	1.37	1.33	1.29	1.25	1.21	1.18	1.15	1.12	1.09	1.06
86	1.50	1.45	1.40	1.36	1.31	1.27	1.24	1.20	1.17	1.14	1.11
85	1.58	1.53	1.48	1.43	1.38	1.33	1.29	1.26	1.23	1.19	1.16
84	1.67	1.61	1.56	1.50	1.45	1.40	1.36	1.32	1.29	1.25	1.21
83	1.76	1.70	1.64	1.58	1.52	1.47	1.43	1.39	1.35	1.31	1.27
82	1.86	1.79	1.73	1.66	1.60	1.54	1.50	1.45	1.41	1.37	1.33
81	1.97	1.90	1.82	1.75	1.69	1.62	1.57	1.53	1.48	1.44	1.40
80	2.08	2.00	1.93	1.85	1.78	1.71	1.66	1.61	1.56	1.51	1.46
79	2.20	2.12	2.03	1.95	1.88	1.80	1.74	1.69	1.64	1.59	1.54
78	2.33	2.24	2.15	2.07	1.98	1.90	1.84	1.78	1.72	1.67	1.61
77	2.48	2.38	2.28	2.18	2.09	2.00	1.94	1.87	1.81	1.75	1.69
76	2.62	2.51	2.41	2.31	2.21	2.12	2.05	1.98	1.91	1.84	1.78
75	2.78	2.67	2.56	2.45	2.34	2.24	2.16	2.09	2.01	1.94	1.87
74	2.96	2.84	2.71	2.60	2.48	2.37	2.29	2.20	2.12	2.04	1.97
73	3.14	3.01	2.88	2.75	2.63	2.51	2.42	2.33	2.24	2.15	2.07
72	3.36	3.21	3.06	2.92	2.78	2.65	2.55	2.46	2.36	2.27	2.18
71	3.60	3.44	3.28	3.12	2.97	2.82	2.71	2.61	2.50	2.40	2.30
70	3.83	3.65	3.48	3.32	3.16	3.00	2.88	2.77	2.65	2.54	2.43
69	4.10	3.91	3.73	3.55	3.37	3.20	3.07	2.94	2.82	2.70	2.58
68	4.40	4.19	3.99	3.79	3.60	3.41	3.27	3.13	2.99	2.86	2.73
67	4.71	4.49	4.27	4.06	3.85	3.65	3.49	3.34	3.19	3.05	2.90
66	5.08	4.83	4.59	4.36	4.13	3.91	3.74	3.57	3.41	3.25	3.09
65	5.45	5.19	4.93	4.68	4.44	4.20	4.01	3.83	3.65	3.47	3.30
64	5.88	5.59	5.31	5.04	4.78	4.52	4.31	4.11	3.91	3.72	3.53
63	6.31	6.00	5.70	5.41	5.13	4.85	4.63	4.41	4.20	4.00	3.80
62	6.84	6.50	6.17	5.84	5.53	5.22	4.98	4.75	4.52	4.30	4.09
61	7.40	7.03	6.66	6.31	5.97	5.63	5.37	5.12	4.88	4.64	4.41
60	8.05	7.64	7.24	6.86	6.48	6.11	5.83	5.55	5.28	5.01	4.76
59	8.78	8.33	7.89	7.46	7.05	6.64	6.33	6.02	5.72	5.43	5.14
58	9.61	9.10	8.61	8.13	7.66	7.20	6.86	6.52	6.19	5.87	5.56
57	10.58	10.00	9.43	8.88	8.34	7.82	7.44	7.08	6.72	6.36	6.02
56	11.61	10.96	10.33	9.71	9.11	8.53	8.11	7.70	7.30	6.91	6.53
55	12.80	12.07	11.36	10.68	10.00	9.35	8.88	8.42	7.97	7.53	7.10
54	14.10	13.29	12.50	11.73	10.98	10.25	9.72	9.21	8.70	8.21	7.73
53	15.60	14.68	13.78	12.90	12.05	11.22	10.63	10.06	9.50	8.96	8.42
52	17.22	16.18	15.18	14.20	13.24	12.31	11.66	11.02	10.40	9.79	9.19
51	19.10	17.93	16.79	15.68	14.59	13.54	12.81	12.10	11.40	10.72	10.05
50	21.18	19.87	18.60	17.36	16.15	14.97	14.14	13.33	12.54	11.77	11.01
49	23.40	21.97	20.57	19.21	17.89	16.60	15.65	14.73	13.82	12.94	12.08
48	26.00	24.35	22.75	21.20	19.68	18.20	17.17	16.16	15.18	14.21	13.27
47	28.90	27.06	25.28	23.54	21.85	20.20	19.03	17.88	16.77	15.68	14.61
46	32.00	29.95	27.96	26.03	24.14	22.30	21.00	19.74	18.50	17.29	16.11
45	35.40	33.16	30.99	28.87	26.81	24.80	23.33	21.90	20.50	19.14	17.80
44	39.20	36.71	34.29	31.93	29.64	27.40	25.79	24.21	22.67	21.17	19.70

43	43.60	40.77	38.02	35.35	32.74	30.20	28.45	26.73	25.06	23.43	21.83
42	48.20	45.06	42.00	39.02	36.13	33.30	31.40	29.55	27.74	25.97	24.25
41	54.00	50.43	46.97	43.59	40.30	37.10	34.98	32.92	30.90	28.93	27.00
40	60.60	56.63	52.78	49.02	45.36	41.80	39.36	36.98	34.66	32.39	30.17
39	68.60	64.04	59.61	55.30	51.10	47.00	44.23	41.53	38.89	36.31	33.78
38	78.10	72.70	67.45	62.33	57.35	52.50	49.44	46.45	43.54	40.69	37.90
37	89.40	82.99	76.75	70.68	64.76	59.00	55.58	52.24	48.98	45.80	42.68
36	103.00	95.43	88.06	80.89	73.91	67.10	63.17	59.33	55.59	51.93	48.35
35	119.00	110.35	101.94	93.75	85.77	78.00	73.18	68.47	63.88	59.39	55.00
34	139.00	129.32	119.90	110.73	101.80	93.10	86.80	80.66	74.66	68.80	63.07
33	162.00	149.97	138.28	126.90	115.81	105.00	98.24	91.63	85.19	78.89	72.73
32	191.00	176.44	162.29	148.50	135.08	122.00	114.10	106.40	98.87	91.52	84.34
31	227.00	209.28	192.04	175.27	158.93	143.00	133.62	124.46	115.52	106.79	98.25
30	268.00	247.75	228.05	208.88	190.20	172.00	160.04	148.37	136.97	125.83	114.95
29	315.00	291.16	267.97	245.41	223.43	202.00	187.96	174.26	160.88	147.81	135.03
28	372.00	342.25	313.32	285.16	257.73	231.00	215.94	201.25	186.90	172.88	159.17
27	441.00	404.50	369.01	334.45	300.80	268.00	251.39	235.18	219.35	203.88	188.76
26	528.00	484.54	442.27	401.13	361.06	322.00	301.66	281.81	262.43	243.49	224.98
25	640.00	590.21	541.79	494.65	448.75	404.00	375.91	348.49	321.72	295.57	270.00
24	791.00	735.73	681.97	629.64	578.68	529.00	486.67	445.36	405.02	365.60	327.08
23	993.00	926.97	862.74	800.23	739.35	680.00	621.22	563.85	507.84	453.11	399.61
22	1260.00	1171.18	1084.80	1000.72	918.82	839.00	766.05	694.86	625.34	557.42	491.03
21	1600.00	1476.79	1356.97	1240.33	1126.73	1016.00	929.53	845.14	762.74	682.23	603.53
20	2053.00	1880.43	1712.58	1549.22	1390.09	1235.00	1131.26	1030.03	931.17	834.59	740.18

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