

# DESHUMIDIFIER MH-V5

Service manual

**MH-10-V5**

**MH-20-V5**



## Table of Contents

<b>Part I : Technical Information</b> .....	3
<b>1.Summary</b> .....	3
<b>2.Specifications</b> .....	4
<b>3.Outline Dimension Diagram</b> .....	6
<b>4.Refrigerant System Diagram</b> .....	7
<b>5.Electrical Part</b> .....	8
5.1 Wiring Diagram .....	8
5.2 PCB Printed Diagram.....	9
<b>6.Function and Control</b> .....	11
6.1 Control Panel Instruction.....	11
6.2 Introduction of Basic Mode Function.....	12
 <b>Part II : Maintenance</b> .....	 14
<b>7.Notes Maintenance</b> .....	14
<b>8.Maintenance</b> .....	15
8.1 Error Code.....	15
8.2 Malfunction Detection Flowchart.....	16
8.3 Maintenance Method for Common Malfunction .....	18
<b>9.Exploded View and Parts List</b> .....	20
<b>10.Removal Procedure</b> .....	23
 <b>Appendix:</b> .....	 30
Appendix 1: Reference Sheet of Celsius and Fahrenheit .....	30
Appendix 2: Resistance Table of Temperature Sensor .....	31
Appendix 3: Resistance Value Table of Humidity Sensor .....	36

# Part I : Technical Information

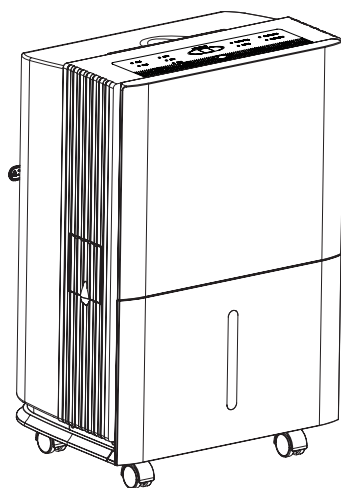
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## 1. Summary

Models

MH-10-V5

MH-20-V5



## 2.Specifications

Model			MH-10-V5
Product Code			CK051024000
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Rated Dehumidifying Volume	L/h		0.17
Power Input	W		220
Power Current	A		1.20
Set Humidity Range	%		35~80
Air Flow Volume(H/M/L)	m <sup>3</sup> /h		150/120/100
Fan Motor Speed (H/M/L)	r/min		930/800/650
Output of Fan Motor	W		6
Fan Motor Capacitor	μF		1.0
Fan Type			Centrifugal
Diameter Length(DXL)	mm		Φ180X76.5
Throttling Method			Capillary
Fuse	A		3.15
Sound Pressure Level (H/M/L)	dB (A)		43/41/39
Sound Power Level ((H/M/L)	dB (A)		53/51/49
Climate Type			T1
Isolation			I
Moisture Protection			IPX0
Permissible Excessive Operating Pressure for the Discharge Side	MPa		1.7
Permissible Excessive Operating Pressure for the Suction Side	MPa		0.6
Dimension (WXHXD)	mm		343X525X262
Dimension of Carton Box (LXWXH)	mm		391X310X569
Dimension of Package (LXWXH)	mm		394X313X584
Application Area	m <sup>2</sup>		14
Net Weight	kg		13
Gross Weight	kg		14.5
Refrigerant			R134a
Refrigerant Charge	kg		0.08
Bucket Capacity	L		4.0/4.6
Control Type			Electronic
Evaporator	Form		Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7
	Row-fin Gap	mm	1-1.3
	Coil Length (LXDXW)	mm	235X12.7X190.5
Condenser	Form		Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7
	Rows-fin Gap	mm	1-1.4
	Coil Length (LXDXW)	mm	235X12.7X190.5
Compressor	Compressor Manufacturer/Trademark		Shanghai Hitachi Electrical Appliances Co.,Ltd/HIGHLY
	Model		BSA418CV-R1AUA
	Type		Rotary
	Power Input	W	213
	Overload Protector		URP-191-78
	L.R.A.	A	3.4
Working Current	A	1.1	

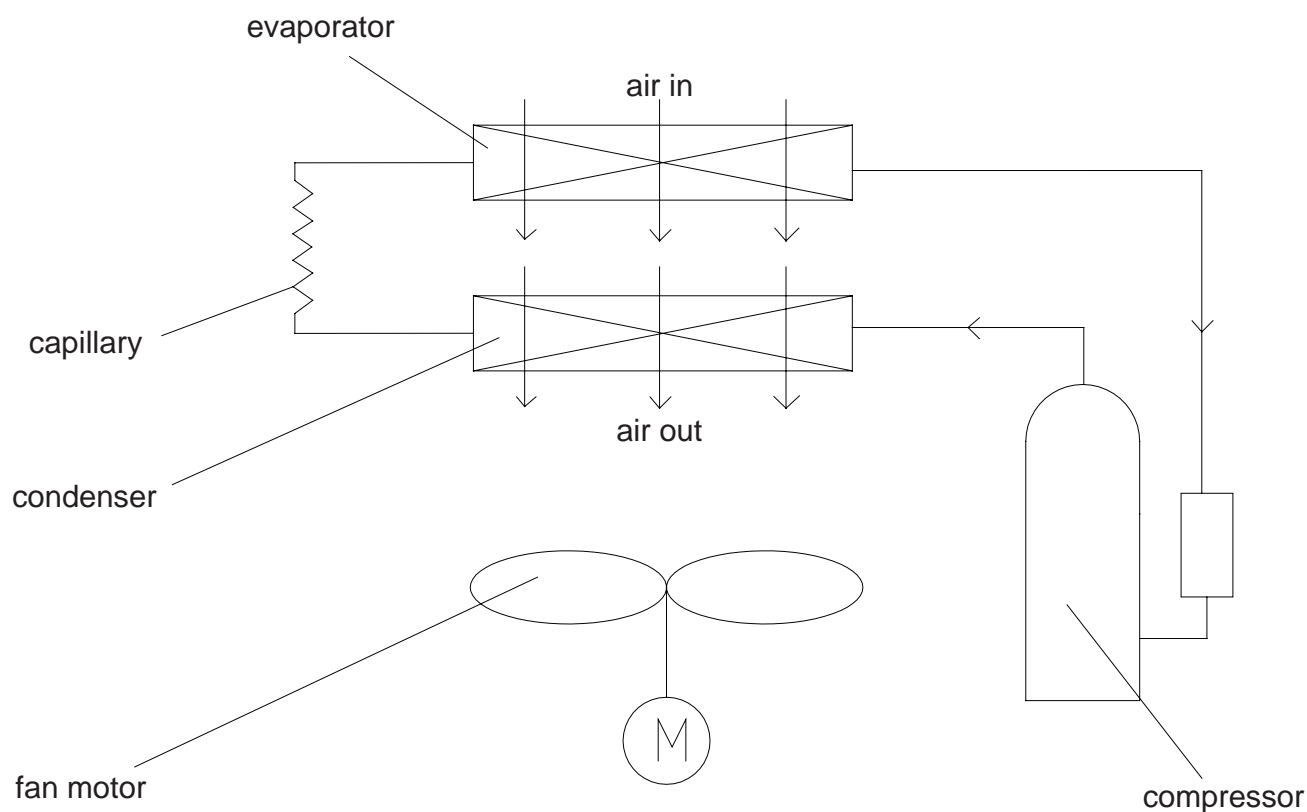
The above data is subject to change without notice; please refer to the nameplate of the unit.

Model			MH-20-V5
Product Code			CK051023800
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Rated Dehumidifying Volume	L/h		0.41
Power Input	W		300
Power Current	A		1.5
Set Humidity Range	%		35~80
Air Flow Volume(H/M/L)	m <sup>3</sup> /h		180/160/140
Fan Motor Speed (H/M/L)	r/min		950/860/740
Output of Fan Motor	W		7
Fan Motor RLA	A		0.13
Fan Motor Capacitor	μF		1
Fan Type			Centrifugal
Diameter Length(DXL)	mm		Φ180X76.5
Throttling Method			Capillary
Fuse	A		3.15
Sound Pressure Level (H/M/L)	dB (A)		45/43/41
Sound Power Level ((H/M/L)	dB (A)		55/53/51
Climate Type			T1
Isolation			I
Moisture Protection			IPX0
Permissible Excessive Operating Pressure for the Discharge Side	MPa		1.7
Permissible Excessive Operating Pressure for the Suction Side	MPa		0.6
Dimension (WXHXD)	mm		343X525X262
Dimension of Carton Box (LXWXH)	mm		391X310X569
Dimension of Package (LXWXH)	mm		394X313X584
Application Area	m <sup>2</sup>		28
Net Weight	kg		15.5
Gross Weight	kg		17
Refrigerant			R134a
Refrigerant Charge	kg		0.2
Bucket Capacity	L		4.0/4.6
Control Type			Electronic
Evaporator	Form		Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7
	Row-fin Gap	mm	1-1.3
	Coil Length (LXDXW)	mm	235X12.7X190.5
Condenser	Form		Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7
	Rows-fin Gap	mm	2-1.4
	Coil Length (LXDXW)	mm	235X12.7X190.5
Compressor	Compressor Manufacturer/Trademark		RECHI PRECISION CO.,LTD/ RECHI
	Model		39E073HR&F^YA
	Type		Rotary
	Power Input	W	300
	Overload Protector		UP3-017
	L.R.A.	A	5.5
	Working Current	A	1.4

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



## 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.

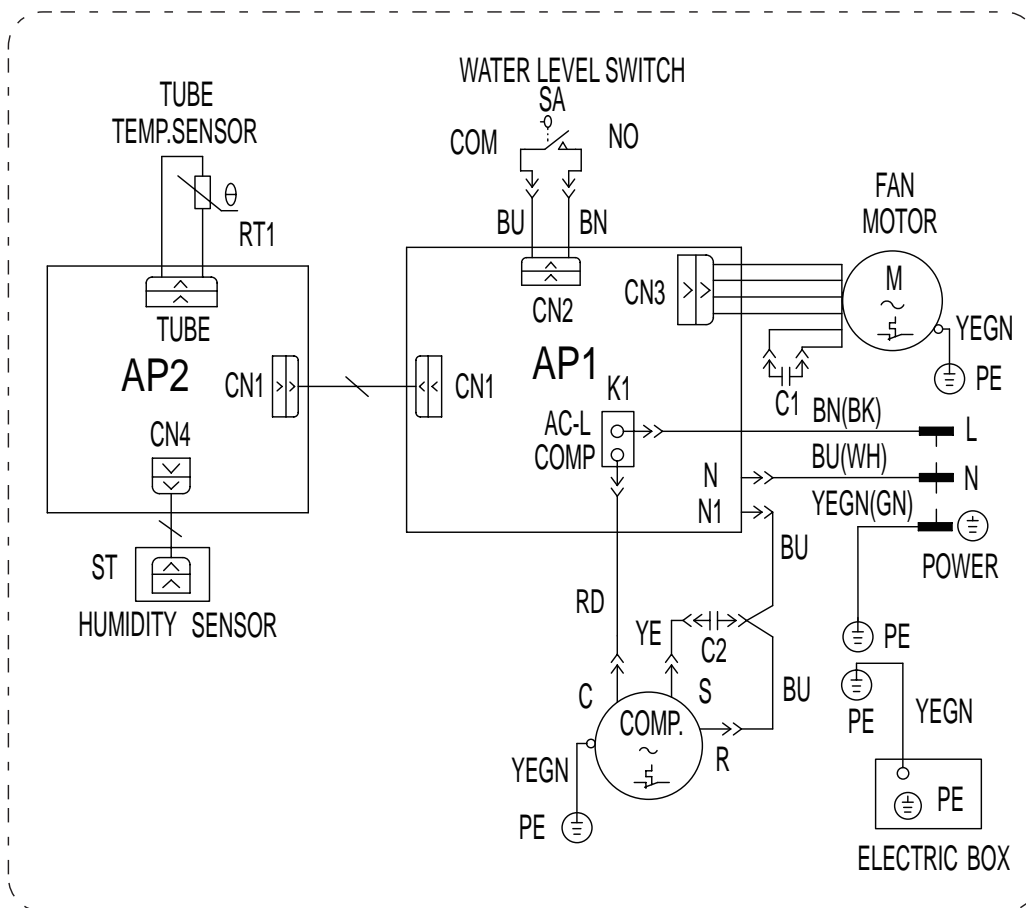
During operation of the system, air will pass through evaporator and condenser in turn and then be discharged due to centrifugal blade. When the air is passing through evaporator, refrigerant will absorb the heat in air to let its temperature decrease to the temperature point of dew, water vapor in air 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	COMP	Compressor
YE	Yellow	BN	Brown		Grounding wire
RD	Red	BU	Blue	/	/
YEGN	Yellow/Green	BK	Black	/	/
VT	Violet	OG	Orange	/	/



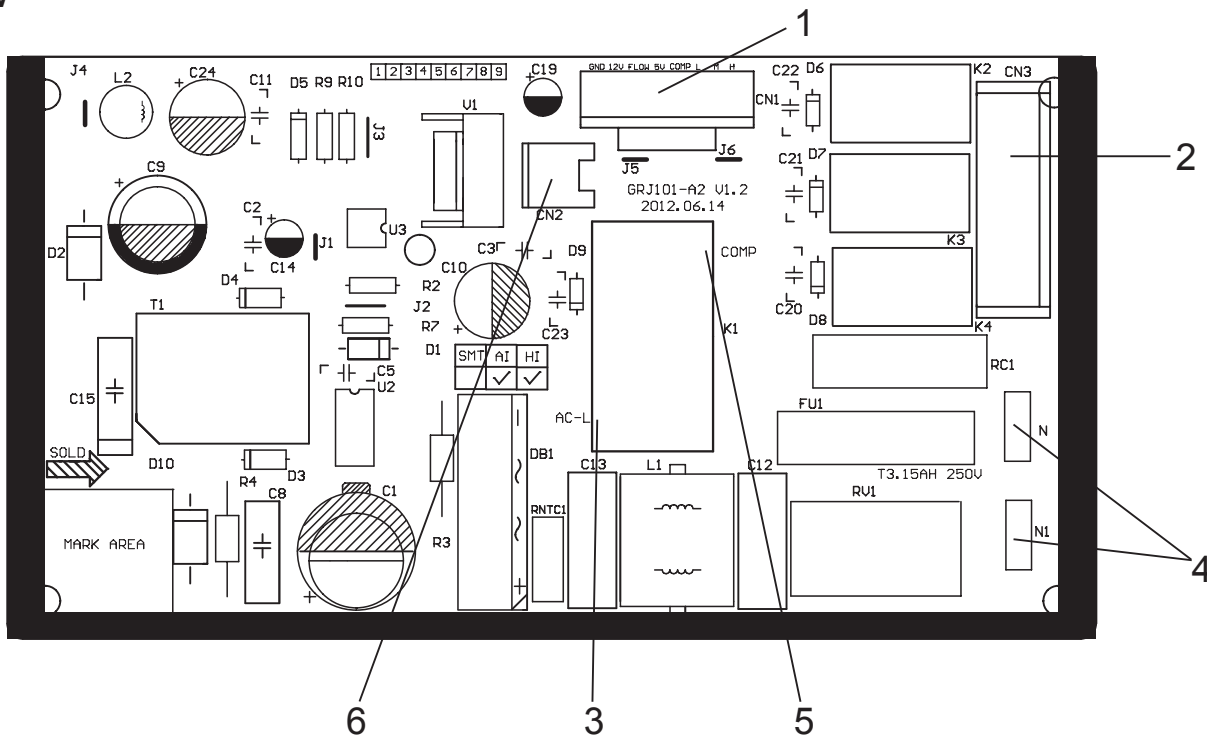
These circuit diagrams are subject to change without notice ,please refer to the one supplied with the unit.



## 5.2 PCB Printed Diagram

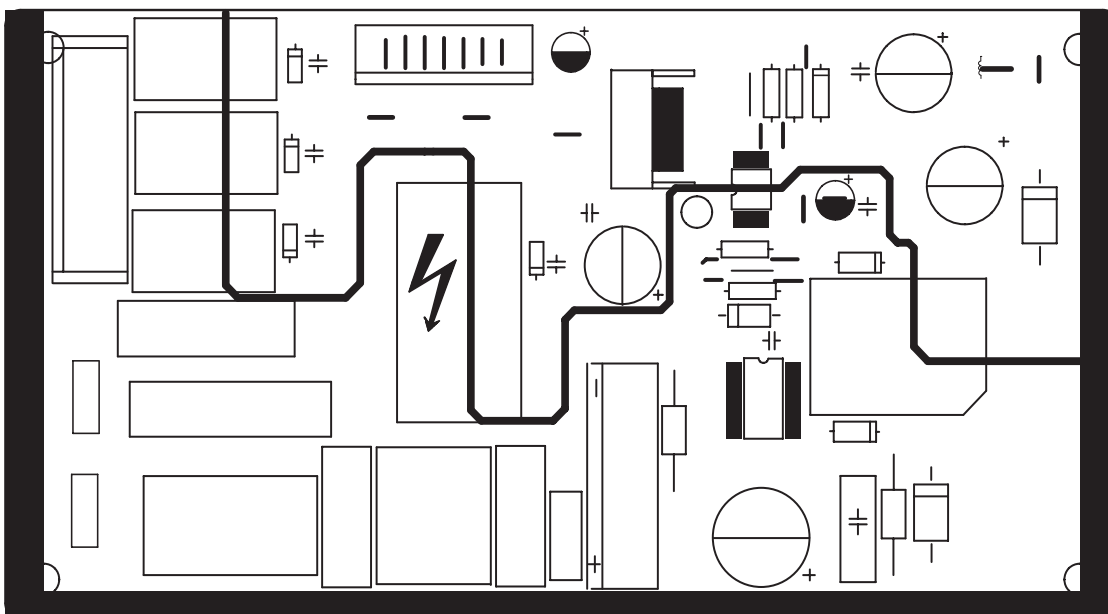
### Silk Screen on Main Board

• Top view



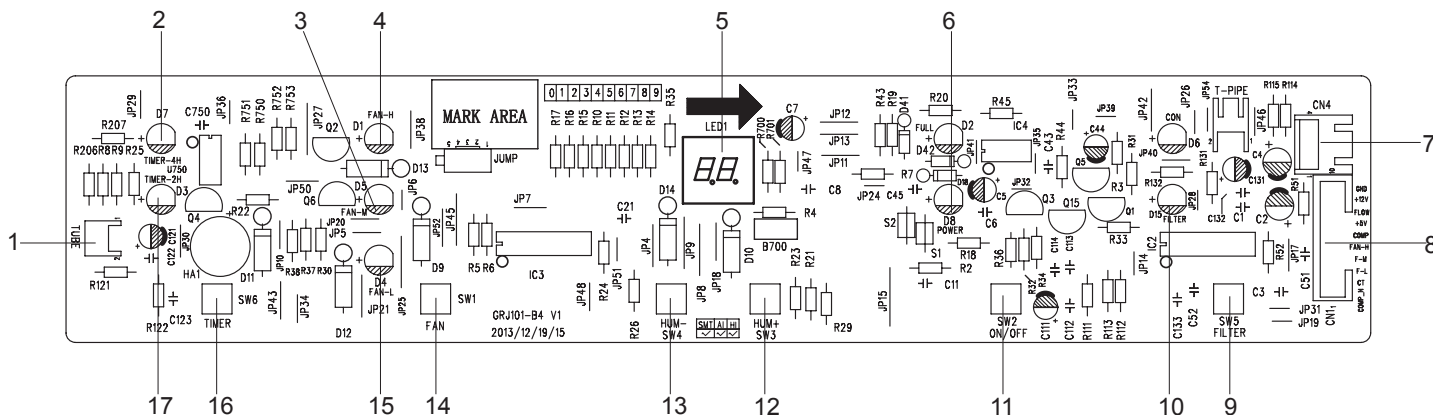
No.	Name	Description	No.	Name	Description
1	Needle stand of board connection wire	Connect to display board	4	Interface of neutral wire	Connect to neutral wire of commercial wire
2	Needle stand of fan	Connect to fan	5	Interface of compressor	Connect to compressor
3	Interface of live wire	Connect to live wire of commercial wire	6	Needle stand of water blow protection switch	Connect to water blow protection switch

• Bottom view



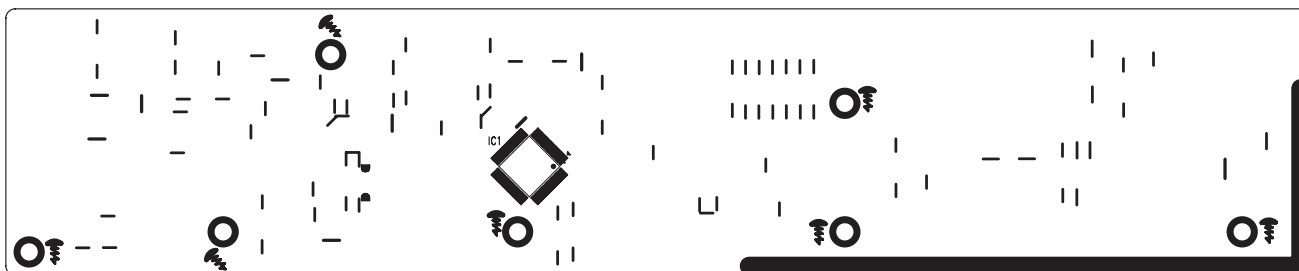
### Silk Screen on Display Board

• Top view



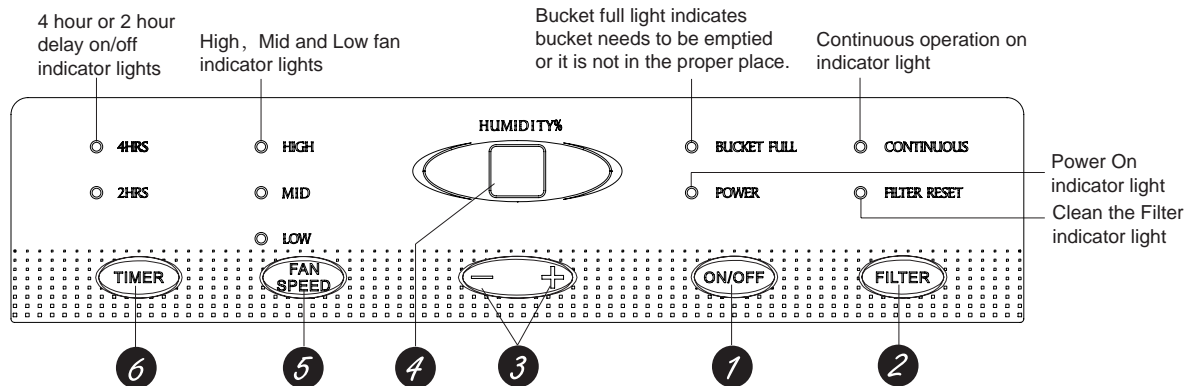
No.	Name	Description	No.	Name	Description
1	Needle stand of pipe temperature sensor	Connect to pipe temperature sensor	12	Set humidity button	Increase set humidity button
2	Timer 4H indicator	Timer 4H indicator is on	13	Set humidity button	Decrease set humidity button
3	Med fan step indicator	Med fan step indicator is on	14	Fan speed button	Preset fan speed button
4	High fan step indicator	High fan step indicator is on	15	Low fan step indicator	Low fan step indicator is on
5	Dual-8 digital display tube	Display ambient humidity or preset temperature	16	Timer button	Preset timer time button
6	Power supply indicator	Power supply indicator is on	17	Timer 2H indicator	Timer 2H indicator is on
7	Needle stand of humidity and ambient temperature sensor	Connect to humidity and ambient temperature sensor	/	/	/
8	Connection wire of board	Connect to mainboard	/	/	/
9	Filter reset button	Filter reset button	/	/	/
10	Remind indicator of cleaning filter	Remind indicator of cleaning filter is on	/	/	/
11	On/off button	On/off button	/	/	/

• Bottom view



## 6. Function and Control

### 6.1 Control Panel Instruction



#### 1.ON/OFF Pad

Press to turn the dehumidifier on or off.

#### 2.FILTER Pad

After 250 hours of operation, the Clean the Filter indicator light will glow to remind you to clean the filter. Remove the filter and clean it. Press to turn off the Clean the Filter light. See the Care and Cleaning section.

#### 3.Humidity Set Control Pads

The humidity level can be set within a range of 80% RH (Relative Humidity) to 35% RH (Relative Humidity) in 5% reduce or at CO for continuous operation.

NOTE: If CO (Continuous) is selected, the dehumidifier will operate continuously at its maximum dehumidification settings if attached to a hose to drain or until the bucket is full.

For drier air, press the - pad and set to a lower percent value (%).

For damper air, press the + pad and set to a higher percent value (%).

When you first use the dehumidifier, set the humidity control to 45% or 50%. Allow at least 24 hours for the dehumidifier to achieve the humidity level. If you still have damper air than desired, set the humidity level to a lower setting or select Continuous for maximum dehumidification.

This unit has 3-min lag due to the device for protecting circuit. In order to prolong the compressors working life, the compressor will not start until the unit has run for 3 minutes.

#### 4.Display

Shows the set % humidity level while setting, then shows the actual (+/- 5% accuracy) room % humidity level.

#### 5.FAN SPEED Pad

Controls the fan speed. Press to select High or Mid or Low fan speed.

Set the fan control to High for maximum moisture removal. When the humidity has been reduced and quiet operation is preferred, set the fan control to Mid or Low.

#### 6.TIMER Pad

If unit is turned on and running in timer mode for 2hr or 4hr, can turn off the unit. When unit stand by and running in timer mode for 2hr or 4hr can turn on the unit.

### Other Features

#### BUCKET FULL Light

Glow when the bucket is ready to be emptied, or when the bucket is removed or not replaced in the proper position.

#### Alarm

If the bucket is full or missing for more than three minutes, an alarm will sound for about 10 seconds to remind you to empty and replace the bucket.

#### Auto Shut Off

The Water Level Control Switch shuts off the dehumidifier when the bucket is full, or when the bucket is removed or not replaced in the proper position.

#### Auto Defrost

When frost builds up on the evaporator coils, the compressor will cycle off and the fan will continue to run until the frost disappears.

#### Power Outage

In the case of a power outage or interruption, the unit will automatically re-start, in the settings last used, after the power is restored.

## 6.2 Introduction of Basic Mode Function

### 1. Basic Function

#### 1) Dry conditions and process

- When  $\text{HUMIDITY}_{\text{preset}} \leq \text{HUMIDITY}_{\text{amb.}} - 5\%$ , compressor and fan will run.
- When  $\text{HUMIDITY}_{\text{preset}} \geq \text{HUMIDITY}_{\text{amb.}} + 5\%$ , compressor stop to run and fan will stop operation after 3min.
- When  $\text{DEHUMIDITY}_{\text{amb.}} - 5\% < \text{HUMIDITY}_{\text{preset}} < \text{HUMIDITY}_{\text{amb.}} + 5\%$ , when compressor is operation, it will run with condition a; when compressor stops, it will run with condition b. If under this condition when the unit is on, the compressor is off and fan will stop to run after 3min delay.

#### 2) Humidity Range

- 5% is one step, it can be adjusted continuously from CO, 35%-80% (CO stands for dehumidify continuously).
- Adjust preset temperature by "+" and "-".

### 2. Protection Function

#### (1) Working temperature range

- Detect the unit after energized, when  $2\text{ }^{\circ}\text{C} \leq \text{Tamb.} \leq 45\text{ }^{\circ}\text{C}$ , the unit is running normally; when  $\text{Tamb.} < 2\text{ }^{\circ}\text{C}$  or  $\text{Tamb.} > 45\text{ }^{\circ}\text{C}$ , the compressor stops, and fan will run with the detected temperature humidity;
- During operation, when  $\text{Tamb.} < 2\text{ }^{\circ}\text{C}$  or  $\text{Tamb.} > 45\text{ }^{\circ}\text{C}$ , the compressor stops, and fan will run with the detected temperature humidity; when  $2\text{ }^{\circ}\text{C} \leq \text{Tamb.} \leq 45\text{ }^{\circ}\text{C}$ , the compressor will be started up.

#### (2) Compressor Protection

- After energization, under any situation and after compressor stops, it will restart 3min delay at least.
- Under operation state except temperature sensor malfunction, on/off button, water-blow protection, after compressor starts up, it will stop after it runs for 3min at least.

#### (3) Detection for temperature sensor malfunction (Temperature sensor malfunction is AD value $\leq 5$ or $250 \leq \text{AD value}$ )

- When the unit is energized, it is detected that the ambient temperature sensor is open or short circuit for 30s, compressor and fan stops, LED indicator is off, buttons are invalid, and nixie tube displays "F1".
- It is detected that the pipe temperature sensor is open or short circuit for 30s, compressor and fan stops, LED indicator is off, buttons are invalid, and nixie tube displays "F2".
- When it detected that the humidity sensor is short-circuited for 30s successively, compressor and fan will stop operation. Meanwhile, LED will be off, buttons are invalid and dual-8 nixie tube will display L1.
- When theres multiple malfunctions, the error codes will be displayed in turn.

#### (4) Water blow protection (off switch)

- The water blow protection will be occurred when the water level of water tank is exceeded. After water blow protection, compressor stops and fan stops after 3mins. If water blow protection occurred for 3min, the buzzer will stop after it gives out a beep for 10s, indicator of water blow will blinks and all the buttons are invalid. When the water level or assembly of water tank resume to normal, signal of water blow protection will cancelled, indicator is off, buzzer stops to give out a beep and resume to normal operation state.
- When the unit is off, water blow protection is occurred, water blow indicator blinks, compressor and fan stops, all the buttons are invalid except on/off buttons. When the unit is on, water blow indicator blinks, buzzer will not give out a beep, compressor and fan stops.

### 3. Other Functions

#### (1) Power-off memory

Upon power failure, the unit after power recovery will automatically start to run according to memory content.

#### (2) Nixie tube display

- When the unit is running, it will display current humidity, preset temperature will be adjusted by "+" or "-", it will resume current humidity after the set is finished for 5s.
- Under any situation and the temperature sensor is malfunction, nixie tube displays "F1", "F2" or "L1", timer lamp, continuous humidity lamp, fan speed lamp and filter lamp will not display.

#### (3) Front panel button

On/off : turn on/off the unit

Timer: use for timer setting

+: Adjust humidity

-: Adjust humidity

Fan speed: adjust fan speed

Filter: adjust filter function

#### (4) LED indicator

Continuous humidity lamp: "CON" lamp is on, nixie tube display "CO";

Power supply indicator: it is on after the unit is energized;

2H timer lamp: the lamp is on after setting 2H timer;

4H timer lamp: the lamp is on after setting 4H timer;

High fan speed indicator: the lamp is on after setting fan is in high speed.

Med fan speed indicator: the lamp is on after setting fan is in med speed.

Low fan speed indicator: the lamp is on after setting fan is in low speed.

Filter cleaning lamp: the lamp is on when the operation time of fan reaches to 250h totally.

Water blow protection lamp: the lamp blinks if water blow protection is occurred.

**(5) Timer control**

2h or 4h timer can be set, set timer off when the unit is on, set timer on when the unit is off. The buzzer will not give out a beep after timer time reaches. Timer time is every 30min which recorded by memory function (read-in memory slug).

**(6) Buzzer**

When the controller is energized or receives any command or signal from the buttons or the remote controller, the buzzer will give out a beep.

**(7) Filter alarm function**

a. After fan runs for 250h totally, filter lamp is on to remind customer clean filter.

b. When the unit is off, the filter lamp is off; the filter time can not be clearance when the unit is off.

# 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 caution 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 cant 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 cant 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 manufacture or distributor. Prohibit prolong the wire by yourself.
7. Replace the fuse with a new one of the same specification if it is burnt down; dont replace it with a cooper 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.

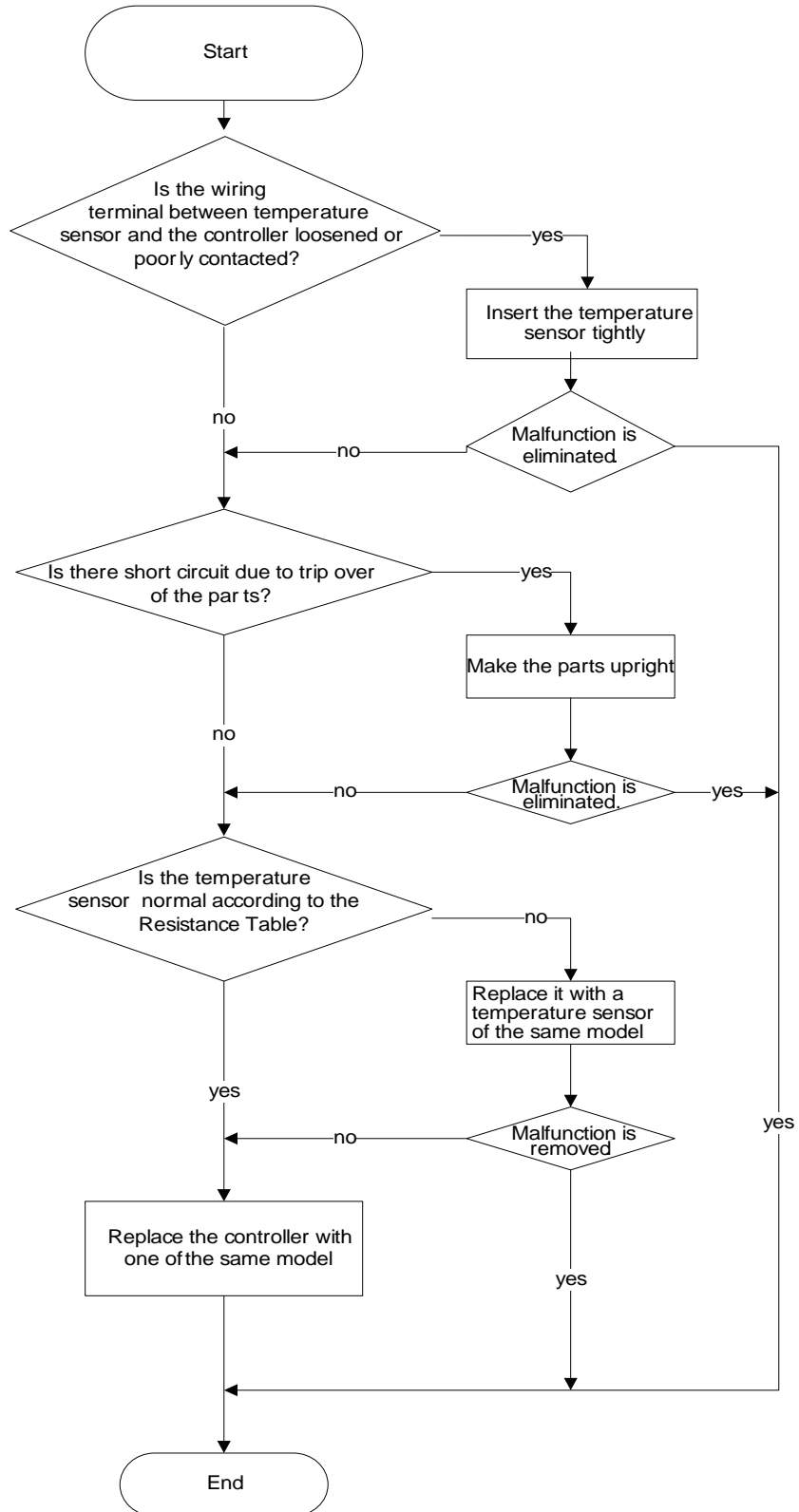
## 8. Maintenance

### 8.1 Error Code

No.	Malfunction Name	Nixie tube display	Unit status	Possible Causes
1	Malfunction of ambient temp. sensor	F1	The compressor and fan 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 stop	1. Refrigerant is leaking 2. System is blocked

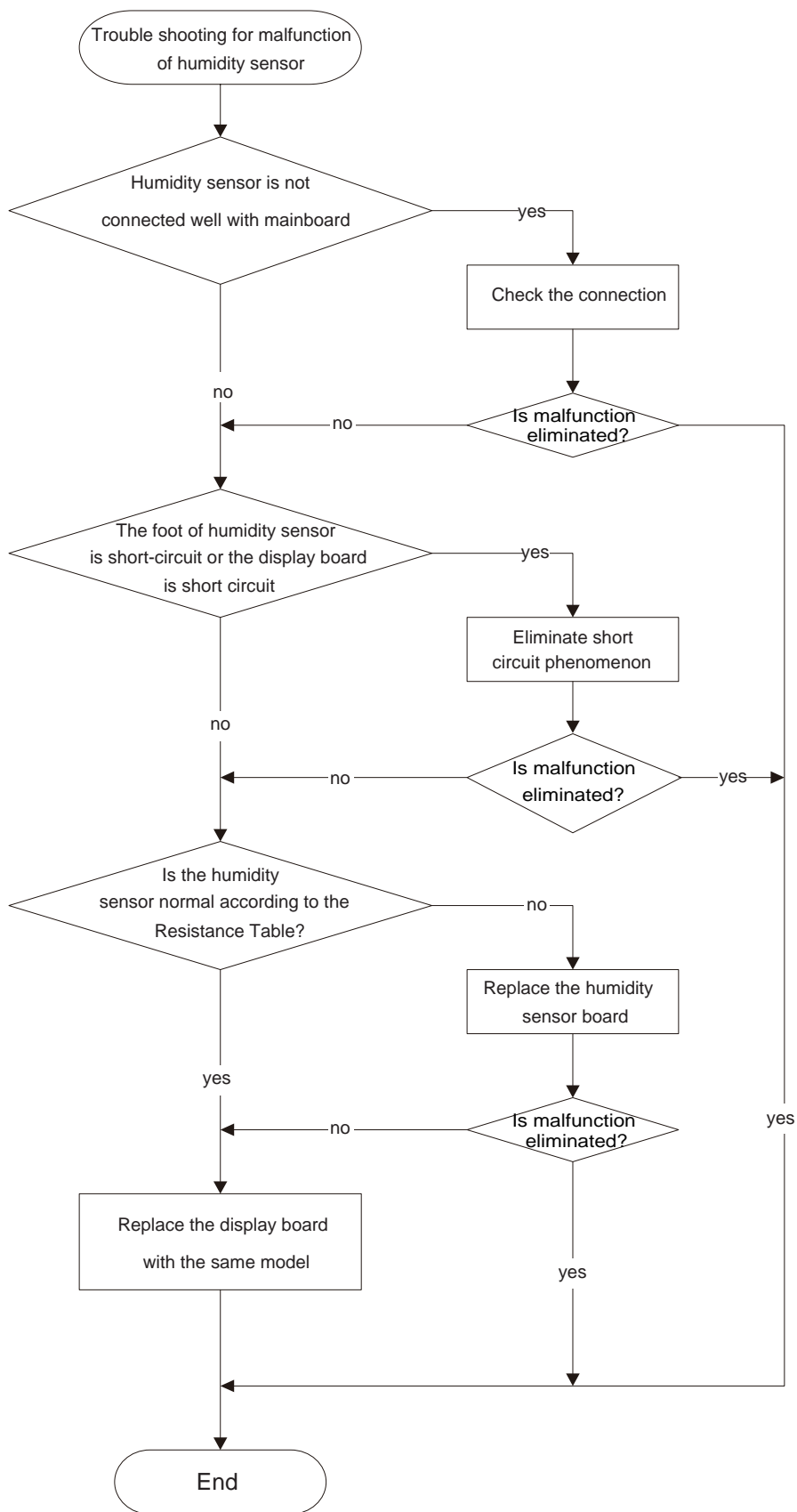
## 8.2 Malfunction Detection Flowchart

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





2.Malfunction of humidity sensor L1



## 8.3 Maintenance Method for Common Malfunction

### 1.The Unit Cant Start Up

Possible causes	Discriminating method (dehumidifier status)	Troubleshooting
No power supply, or poor connection for power plug	After energization, operation indicator isnt bright and the buzzer cant give out sound	Confirm whether its 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 its blocked	Clean the filter
Placing position of water tank is improper.	Check whether therere obstacles around the dehumidifier blocked the air outlet.	Make sure therere 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 isnt leaking, some parts of capillary is blocked.	Replace capillary
Malfunction of fan	Fan cant operate.	Refer to point 3 of maintenance method for details
Malfunction of compressor	Compressor cant operate	Refer to point 4 of maintenance method for details

### 3.Fan Cant 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 Cant 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 cant 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

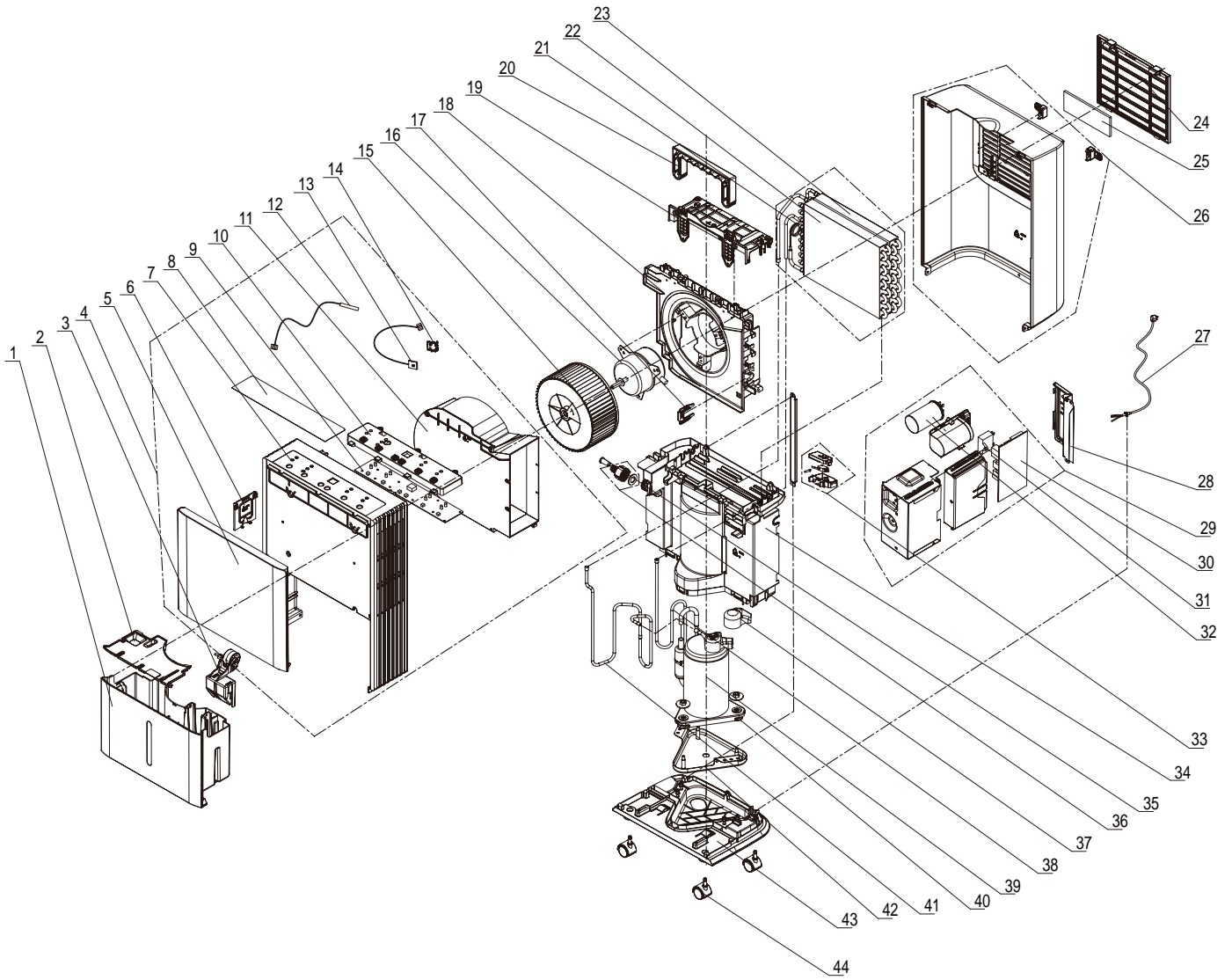
#### 5. Water Leakage

Possible causes	Discriminating method (dehumidifier status)	Troubleshooting
Drainage pipe hasnt 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	Theres 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.

# 9.Exploded View and Parts List



No.	Description	Part Code	Qty
		MH-10-V5	
		Product code	
1	Water Tank Assy	20186543	1
2	Water Tank Cover	22246087	1
3	Float meter sub-assy	26116528	1
4	Shield Assy (Electric)	00004200015	1
5	Front Panel	20006091S	1
6	Cover of Waterspout	22246079	1
7	Front Case	22206521	1
8	Membrane	63066044	1
9	Display Board	30561066	1
10	LCD Cover	20126114	1
11	Diversion Circle	10376042	1
12	Temperature Sensor	390000592	1
13	Detecting Plate	30070018	1
14	Support(Sensor)	24216025	1
15	Centrifugal Fan	10316055	1
16	Fan Motor	1501605102	1
17	Wire Clamp	26116069	1
18	Motor Support	24216094	1
19	Cover Plate	20126179	1
20	Handle	26236023	1
21	Capillary Sub-assy	03000600360	1
22	Condenser Sub-Assy	01136037	1
23	Evaporator Sub-Assy	01036036	1
24	Filter Sub-Assy	11126522	1
25	Filter	11126512	1
26	Rear Case Sub-assy	00013500003	1
27	Power Cord	4002028601	1
28	Electric Box Cover	01256025	1
29	Electric Box Assy	10000201806	1
30	Main Board	30131454	1
31	Capacitor CBB61	3300002237	1
32	Capacitor	3301074716	1
33	Liquid Level Switch Sub-assy	45016014	1
34	Water Tray	20186159	1
35	Rubber Plug(Water Tray)	76716507	1
36	Drainage Joint Sub-assy	06126012	1
37	Covering Plate	01225600003A	1
38	Inhalation Tube Sub-assy	03001000274	1
39	Compressor and Fittings	00106107	1
40	Compressor Gasket	76710308	3
41	Discharge Tube Sub-assy	03001300267	1
42	Support Sub-assy	01702700007P	1
43	Chassis	22226066	1
44	Castor	24236053	4

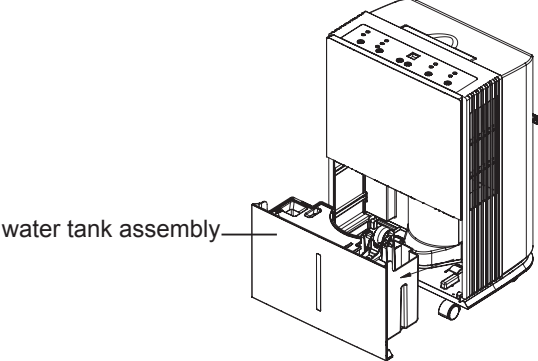
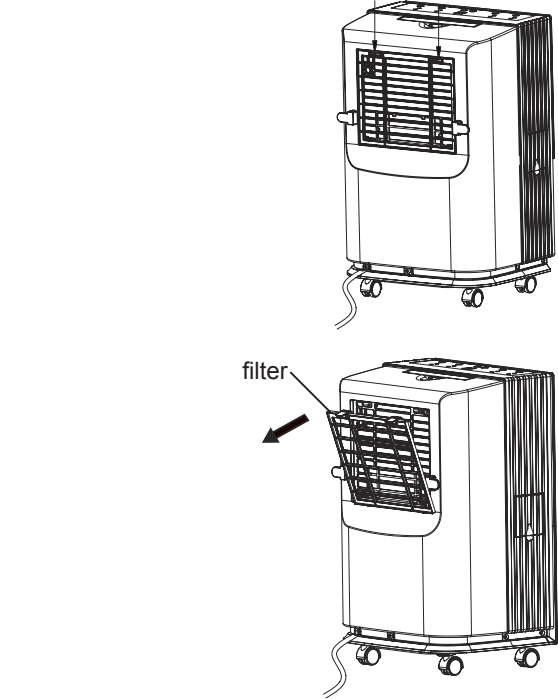
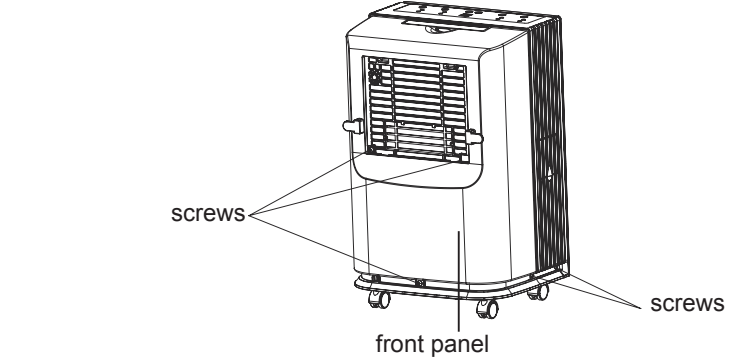
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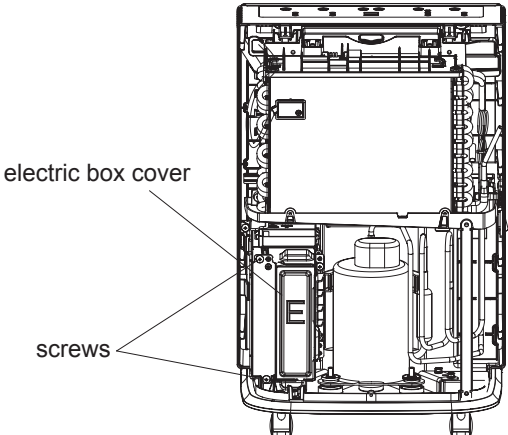
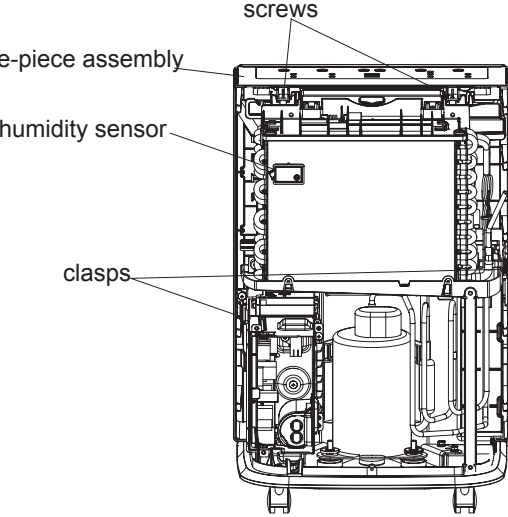
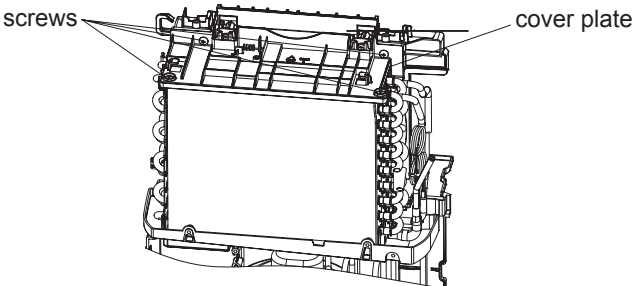
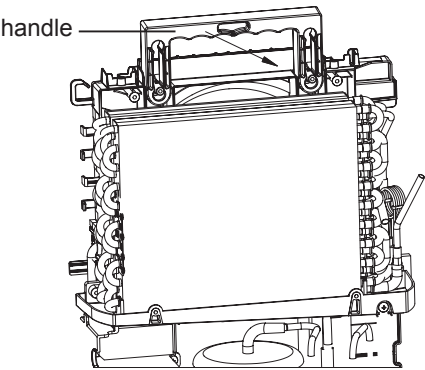
No.	Description	Part Code	Qty
		MH-20-V5	
		Product code	
		CK051023800	
1	Water Tank Assy	20186543	1
2	Water Tank Cover	22246087	1
3	Float meter sub-assy	26116528	1
4	Shield Assy (Electric)	00004200015	1
5	Front Panel	20006091S	1
6	Cover of Waterspout	22246079	1
7	Front Case	22206521	1
8	Membrane	63066044	1
9	Display Board	30561066	1
10	LCD Cover	20126114	1
11	Diversion Circle	10376042	1
12	Temperature Sensor	390000592	1
13	Detecting Plate	30070018	1
14	Support(Sensor)	24216025	1
15	Centrifugal Fan	10316055	1
16	Fan Motor	1501621406	1
17	Wire Clamp	26116069	1
18	Motor Support	24216094	1
19	Cover Plate	20126179	1
20	Handle	26236023	1
21	Capillary Sub-assy	03000600264	1
22	Condenser Sub-Assy	01136101	1
23	Evaporator Sub-Assy	01036047	1
24	Filter Sub-Assy	11126522	1
25	Filter	11126512	1
26	Rear Case Sub-assy	00013500003	1
27	Power Cord	4002028601	1
28	Electric Box Cover	01256025	1
29	Electric Box Assy	10000201338	1
30	Main Board	30131454	1
31	Capacitor CBB61	3301074716	1
32	Capacitor	3300002242	1
33	Liquid Level Switch Sub-assy	45016014	1
34	Water Tray	20186159	1
35	Rubber Plug(Water Tray)	76716507	1
36	Drainage Joint Sub-assy	06126012	1
37	Covering Plate	01225600004A	1
38	Inhalation Tube Sub-assy	03001000146	1
39	Compressor and Fittings	00106538	1
40	Compressor Gasket	76716085	3
41	Discharge Tube Sub-assy	03636611	1
42	Support Sub-assy	01706029P	1
43	Chassis	22226066	1
44	Castor	24236053	4

Above data is subject to change without notice.

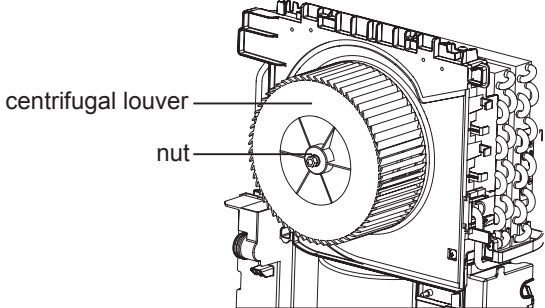
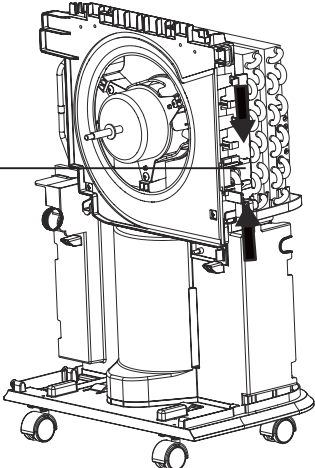
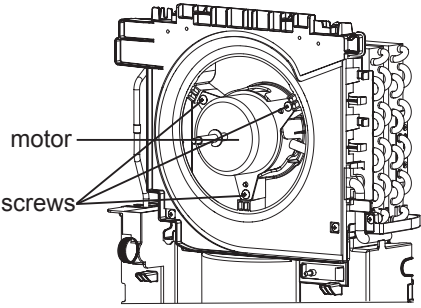
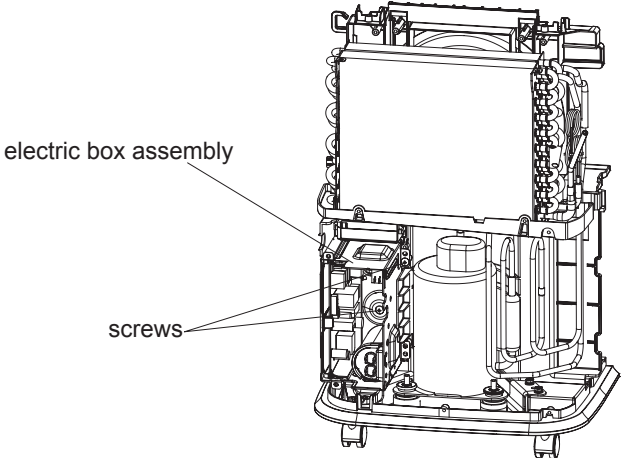
# 10. Removal Procedure

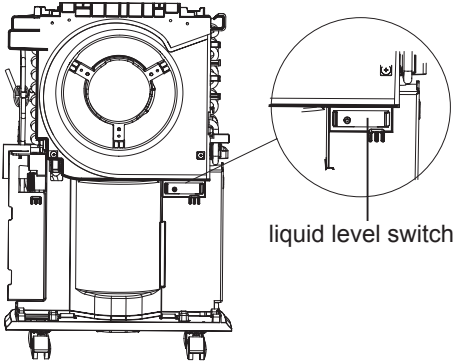
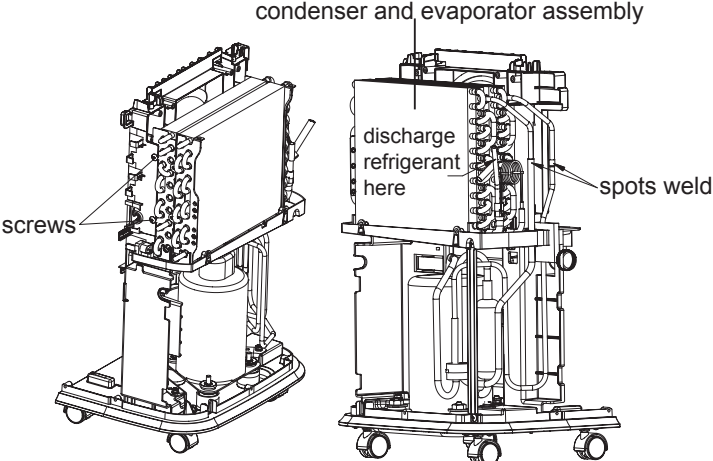
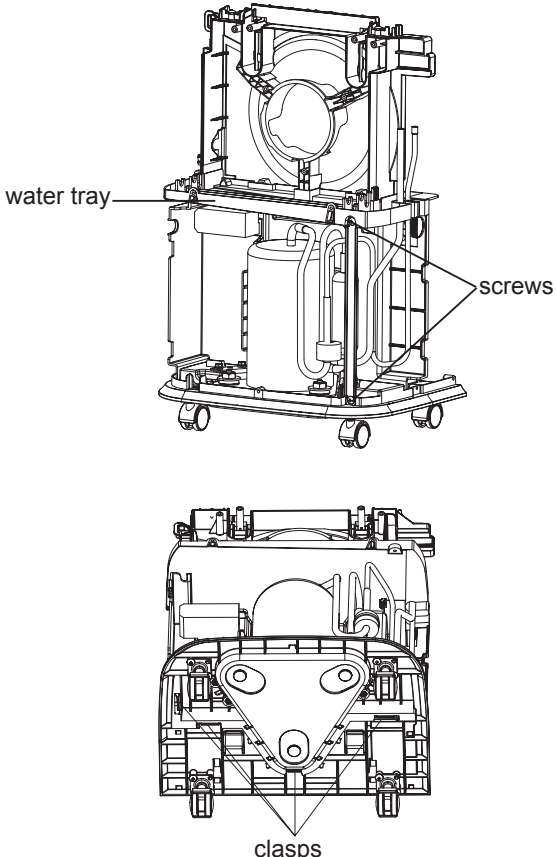
**Warning:** disconnect power supply before removal; discharge the refrigerant completely before unsoldering the pipes.

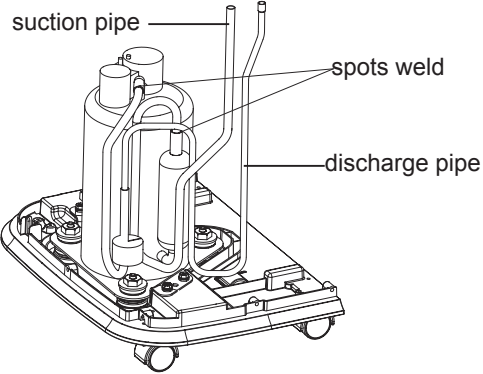
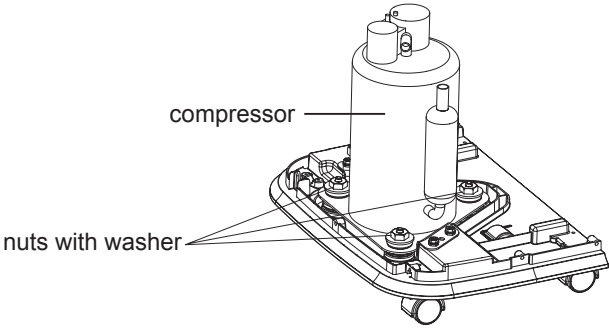
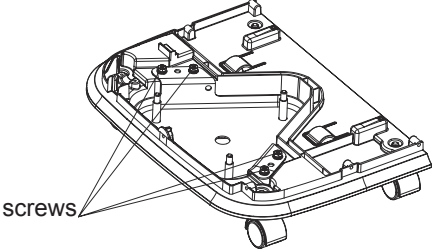
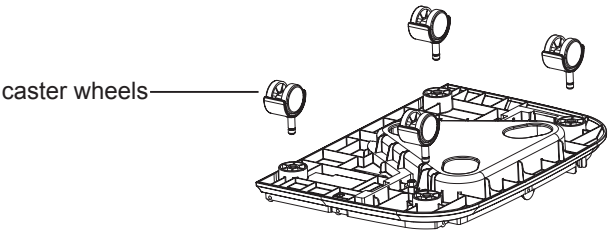
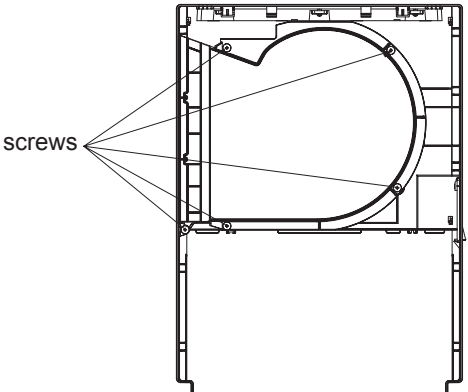
Step	Procedure	
<p><b>1.Remove water tank assembly</b></p>	<p>Pull the water tank onwards to remove the water tank assembly.</p>	
<p><b>2.Remove filter</b></p>	<p>Press the 2 clasps of filter to make the groove loosened, then pull the filter outwards to remove it.</p>	
<p><b>3.Remove front panel</b></p>	<p>Unscrew screws on inlet port and screws on the bottom groove, handle the bottom of rear panel and pull it outwards to remove it.</p>	

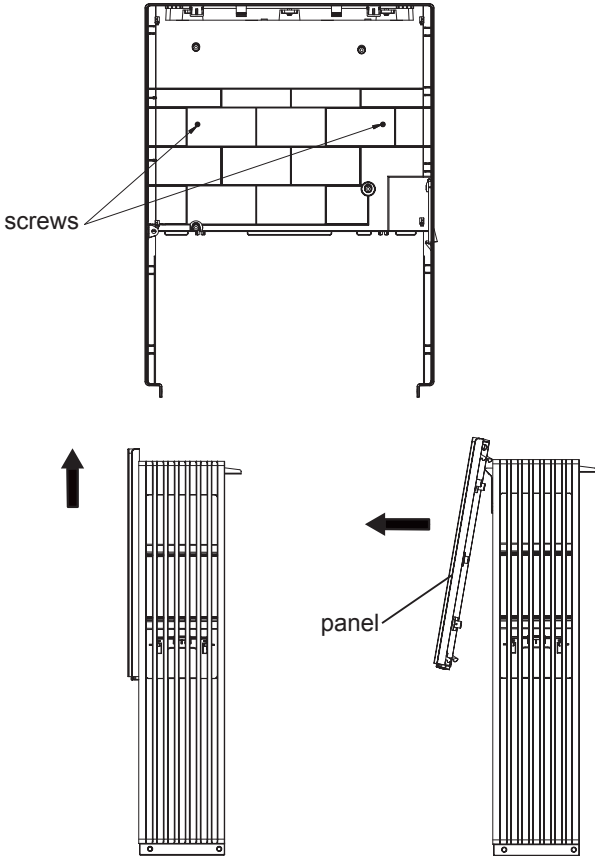
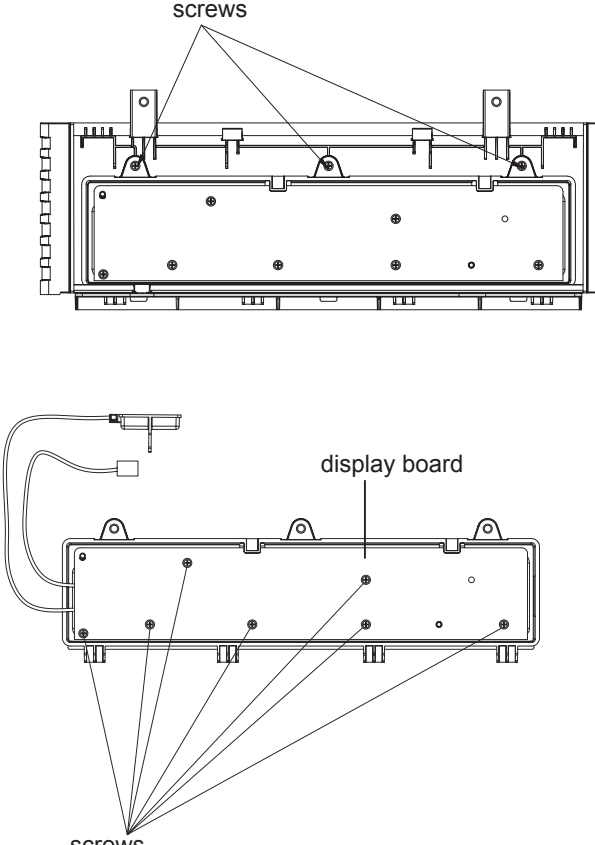
Step	Procedure	
<p><b>4.Remove electric box cover</b></p>	<p>Unscrew 2 screws fixing electric box cover to remove it.</p>	 <p>electric box cover</p> <p>screws</p>
<p><b>5.Remove face-piece assembly</b></p>	<p>Unscrew screws fixing face-piece, Open the clasps, remove humidity sensor and wiring connecting main board then pull the face-piece assembly outwards.</p>	 <p>face-piece assembly</p> <p>humidity sensor</p> <p>clasps</p> <p>screws</p>
<p><b>6.Remove cover plate</b></p>	<p>Unscrew 4 screws fixing cover plate to remove it.</p>	 <p>screws</p> <p>cover plate</p>
<p><b>7.Remove handle</b></p>	<p>Lift the handle, along horizontal direction to move it outwards, then remove the handle.</p>	 <p>handle</p>

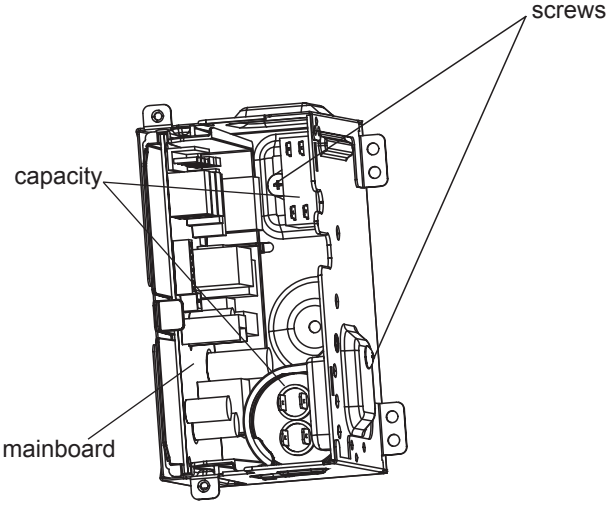


Step	Procedure
<p><b>8.Remove centrifugal louver</b></p>	<p>Remove nuts and washer fixing louver of motor axle, along the motor axle direction to pull out louver.</p>  <p>centrifugal louver nut</p>
<p><b>9.Remove pressing wire board</b></p>	<p>Extrude the two sides of pressing wire board, then pull the pressing wire board outwards.</p>  <p>pressing wire board</p>
<p><b>10.Remove motor</b></p>	<p>Remove the motor wire connect to mainboard and ground wire connect to evaporator side plate, unscrew 3 screws fixing motor to remove motor.</p>  <p>motor screws</p>
<p><b>11.Remove electric box assembly</b></p>	<p>Pull out the power cord, wiring of liquid level switch, compressor wiring connect to mainboard, unscrew screws fixing electric box to remove electric box assembly.</p>  <p>electric box assembly screws</p>

Step	Procedure
<p><b>12.Remove liquid level switch</b></p>	<p>Loosen clasps fixing liquid level switch to remove liquid level switch.</p>  <p>The diagram shows a front view of a washing machine. A circular callout on the right side provides a magnified view of the liquid level switch mechanism, which is a horizontal bar with a vertical stem and a float. A label 'liquid level switch' points to this callout.</p>
<p><b>13.Remove condenser and evaporator assembly</b></p>	<p>Unscrew 2 screws fixing condenser and evaporator assembly, unsolder spots weld of condenser and evaporator to remove them (Note: Discharge the refrigerant before unsoldering.)</p>  <p>The diagrams show the condenser and evaporator assembly being removed from the machine. The left diagram shows the assembly being lifted away from the chassis, with two screws labeled 'screws'. The right diagram shows the assembly still attached to the chassis, with a label 'condenser and evaporator assembly' pointing to the top part, 'discharge refrigerant here' pointing to a specific location on the pipes, and 'spots weld' pointing to the connection points between the assembly and the chassis.</p>
<p><b>14.Remove water tray</b></p>	<p>Unscrew 2 screws fixing facing bar to remove it, push the 4 clasps of chassis and lift the water tray upward to remove water tray.</p>  <p>The diagrams show the water tray being removed from the machine. The top diagram shows the water tray being lifted upwards, with a label 'water tray' pointing to it and 'screws' pointing to the two screws that hold it in place. The bottom diagram shows the chassis with the water tray removed, with a label 'clasps' pointing to the four clasps on the chassis that were used to hold the tray.</p>

Step	Procedure	
<p><b>15.Remove suction pipe and discharge pipe</b></p>	<p>Remove suction pipe and discharge pipe from the unsoldering place of compressor (Note: Discharge the refrigerant first before unsoldering.).</p>	
<p><b>16.Remove compressor</b></p>	<p>Unscrew 3 foot nuts with washer fixing compressor by wrench to remove compressor.</p>	
<p><b>17.Remove support assembly</b></p>	<p>Unscrew 4 screws fixing support assembly to remove support assembly.</p>	
<p><b>18.Remove caster wheel</b></p>	<p>Pull the castor whee then remove it, Remove the other three castor wheels by the same method.</p>	
<p><b>19.Remove facing-piece assembly</b></p>	<p><b>1. Remove duct</b> Unscrew 5 screws fixing duct to remove the duct.</p>	

Step	Procedure
	<p data-bbox="256 432 444 460"><b>2.Remove panel</b></p> <p data-bbox="256 491 703 602">Unscrew 2 screws fixing panel, hold the bottom panel and slip a certain height upward, handle the bottom panel and pull it outwards.</p>  <p data-bbox="256 1321 607 1380"><b>3. Remove control cover plate assembly</b></p> <p data-bbox="256 1410 678 1493">Unscrew 3 screws connecting control cover plate and facing-piece to remove control cover plate assembly</p> <p data-bbox="256 1672 548 1701"><b>4. Remove display board</b></p> <p data-bbox="256 1731 711 1814">Unscrew screws fixing display board,then the display board will separate from control cover plate.</p> 

Step	Procedure
<b>20.Remove electric box assembly</b>	 <p>The diagram shows a perspective view of an electric box assembly. It is a rectangular metal enclosure with a hinged lid. Inside, there are various components including a fan, a compressor, and a mainboard. Three labels with leader lines point to specific parts: 'capacity' points to a component on the left side, 'mainboard' points to a board at the bottom, and 'screws' points to two screws on the right side of the lid.</p>
<p>Unscrew screws fixing fan and compressor capacity, then remove fan capacity and compressor capacity; pull the mainboard along the two sides groove.</p>	

# Appendix:

## Appendix 1: Reference Sheet of Celsius and Fahrenheit

Conversion formula for Fahrenheit degree and Celsius degree:  $T_f = T_c \times 1.8 + 32$

### Set temperature

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)
61	60.8	16	69/70	69.8	21	78/79	78.8	26
62/63	62.6	17	71/72	71.6	22	80/81	80.6	27
64/65	64.4	18	73/74	73.4	23	82/83	82.4	28
66/67	66.2	19	75/76	75.2	24	84/85	84.2	29
68	68	20	77	77	25	86	86	30

### Ambient temperature

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)
32/33	32	0	55/56	55.4	13	79/80	78.8	26
34/35	33.8	1	57/58	57.2	14	81	80.6	27
36	35.6	2	59/60	59	15	82/83	82.4	28
37/38	37.4	3	61/62	60.8	16	84/85	84.2	29
39/40	39.2	4	63	62.6	17	86/87	86	30
41/42	41	5	64/65	64.4	18	88/89	87.8	31
43/44	42.8	6	66/67	66.2	19	90	89.6	32
45	44.6	7	68/69	68	20	91/92	91.4	33
46/47	46.4	8	70/71	69.8	21	93/94	93.2	34
48/49	48.2	9	72	71.6	22	95/96	95	35
50/51	50	10	73/74	73.4	23	97/98	96.8	36
52/53	51.8	11	75/76	75.2	24	99	98.6	37
54	53.6	12	77/78	77	25			

## Appendix 2: Resistance Table of Temperature Sensor

### Resistance Table of Ambient 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 Tube Temperature Sensors (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 Discharge 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

Resistance Table of Ambient Temperature Sensor (100K)

Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)
-20	925.998	18	136.845	56	28.638	94	7.918
-19	876.141	19	130.752	57	27.600	95	7.676
-18	829.261	20	124.961	58	26.606	96	7.443
-17	785.155	21	119.456	59	25.652	97	7.218
-16	743.636	22	114.221	60	24.737	98	7.000
-15	704.532	23	109.242	61	23.858	99	6.790
-14	667.688	24	104.506	62	23.016	100	6.587
-13	632.956	25	100.000	63	22.207	101	6.391
-12	600.201	26	95.711	64	21.430	102	6.201
-11	569.300	27	91.629	65	20.684	103	6.018
-10	540.135	28	87.742	66	19.967	104	5.842
-9	512.601	29	84.041	67	19.279	105	5.671
-8	486.596	30	80.515	68	18.617	106	5.505
-7	462.029	31	77.155	69	17.981	107	5.346
-6	438.812	32	73.954	70	17.370	108	5.191
-5	416.865	33	70.902	71	16.782	109	5.042
-4	396.114	34	67.993	72	16.217	110	4.898
-3	376.487	35	65.218	73	15.673	111	4.758
-2	357.918	36	62.572	74	15.150	112	4.624
-1	340.348	37	60.017	75	14.646	113	4.493
0	323.717	38	57.637	76	14.141	114	4.367
1	307.972	39	55.337	77	13.695	115	4.245
2	293.062	40	53.141	78	13.245	116	4.127
3	278.941	41	51.043	79	12.813	117	4.012
4	265.562	42	49.040	80	12.396	118	3.902
5	252.886	43	47.126	81	11.995	119	3.795
6	240.871	44	45.296	82	11.608	120	3.691
7	229.482	45	43.548	83	11.235	121	3.591
8	218.684	46	41.876	84	10.876	122	3.494
9	208.443	47	40.276	85	10.530	123	3.400
10	198.729	48	38.747	86	10.196	124	3.309
11	189.514	49	37.283	87	9.874	125	3.221
12	180.769	50	35.882	88	9.564	126	3.136
13	172.469	51	34.541	89	9.265	127	3.053
14	164.590	52	33.257	90	8.976	128	2.973
15	157.109	53	32.027	91	8.697	129	2.896
16	150.005	54	30.849	92	8.428	130	2.821
17	143.256	55	29.720	93	8.169	131	2.748

Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)
132	2.678	162	1.312	192	0.705	222	0.384
133	2.610	163	1.284	193	0.691	223	0.376
134	2.543	164	1.256	194	0.677	224	0.369
135	2.479	165	1.229	195	0.664	225	0.362
136	2.417	166	1.203	196	0.650	226	0.355
137	2.357	167	1.178	197	0.637	227	0.348
138	2.229	168	1.153	198	0.625	228	0.341
139	2.242	169	1.129	199	0.612	229	0.335
140	2.187	170	1.105	200	0.600	230	0.328
141	2.134	171	1.082	201	0.588	231	0.322
142	2.082	172	1.060	202	0.576	232	0.317
143	2.032	173	1.038	203	0.565	233	0.311
144	1.983	174	1.017	204	0.553	234	0.305
145	1.936	175	0.996	205	0.542	235	0.300
146	1.890	176	0.975	206	0.531	236	0.295
147	1.846	177	0.956	207	0.521	237	0.290
148	1.803	178	0.936	208	0.510	238	0.285
149	1.761	179	0.917	209	0.500	239	0.281
150	1.720	180	0.899	210	0.490	240	0.276
151	1.680	181	0.881	211	0.480	241	0.272
152	1.642	182	0.863	212	0.470	242	0.269
153	1.605	183	0.845	213	0.461	243	0.265
154	1.568	184	0.828	214	0.451	244	0.261
155	1.533	185	0.812	215	0.442	245	0.258
156	1.499	186	0.796	216	0.433	246	0.255
157	1.466	187	0.780	217	0.425	247	0.253
158	1.433	188	0.764	218	0.416	248	0.250
159	1.402	189	0.749	219	0.408	249	0.248
160	1.371	190	0.734	220	0.400	250	0.246
161	1.341	191	0.719	221	0.392	/	/

## Appendix 3: Resistance Value Table of Humidity Sensor

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

Unit:KΩ

Relative humidity	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:KΩ

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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