



MODELS: GWH(09)MA-K3DNA2B/I GWH(12)MB-K3DNA2B/I GWH(18)MC-K3DNA2B/I GWH(07)MA-K3DNA3B/I GWH(09)MA-K3DNA3B/I GWH(12)MB-K3DNA3B/I GWH(18)MC-K3DNA3B/I GWH(09)MA-K3DNB8B/I GWH(12)MB-K3DNB8B/I GWH(07)MA-K3DNC5B/I GWH(09)MA-K3DNC5B/I GWH(12)MB-K3DNC5B/I GWH(18)MC-K3DNC5B/I GWH(07)MA-K3DNB8B/I(Cold plasma) GWH(09)MA-K3DNB8B/I(Cold plasma) GWH(12)MB-K3DNB8B/I(Cold plasma) GWH(18)MC-K3DNB8B/I(Cold plasma)

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

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# **Summary and features**

Indoor Unit GWH(09)MA-K3DNA2B/I GWH(12)MB-K3DNA2B/I GWH(18)MC-K3DNA2B/I



GWH(07)MA-K3DNA3B/I GWH(09)MA-K3DNA3B/I GWH(12)MB-K3DNA3B/I GWH(18)MC-K3DNA3B/I



GWH(09)MA-K3DNB8B/I GWH(12)MB-K3DNB8B/I GWH(07)MA-K3DNB8B/I(Cold plasma) GWH(09)MA-K3DNB8B/I(Cold plasma) GWH(12)MB-K3DNB8B/I(Cold plasma) GWH(18)MC-K3DNB8B/I(Cold plasma)



GWH(07)MA-K3DNC5B/I GWH(09)MA-K3DNC5B/I GWH(12)MB-K3DNC5B/I GWH(18)MC-K3DNC5B/I



Remote Controller YT1F



# **1.Safety Precautions**

Installing, starting up, and servicing air conditioner can be hazardous due to system pressure, electrical components, and equipment location, etc.

Only trained, qualified installers and service personnel are allowed to install, start-up, and service this equipment. Untrained personnel can perform basic maintenance functions such as cleaning coils. All other operations should be performed by trained service personnel.

When handling the equipment, observe precautions in the manual and on tags, stickers, and labels attached to the equipment. Follow all safety codes. Wear safety glasses andwork gloves. Keep quenching cloth and fire extinguisher nearby when brazing.

Read the instructions thoroughly and follow all warnings or cautions in literature and attached to the unit. Consult local building codes and current editions of national as well as local electrical codes.

Recognize the following safety information:

Warning Incorrect handling could result in personal injury or death.

Caution

Incorrect handling may result in minor injury,or damage to product or property.

- Make sure the outdoor unit is installed on a stable, level surface with no accumulation of snow, leaves, or trash beside.
- Make sure the ceiling/wall is strong enough to bear the weight of the unit.
- Make sure the noise of the outdoor unit does not disturb neighbors.
- Follow all the installation instructions to minimize the risk of damage from earthquakes, typhoons or strong winds.
- Avoid contact between refrigerant and fire as it generates poisonous gas.
- 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 and other hazards.
- Make sure no refrigerant gas is leaking out when installation is completed.
- Should there be refrigerant leakage, the density of refrigerant in the air shall in no way exceed its limited value, or it may lead to explosion.
- Keep your fingers and clothing away from any moving parts.
- Clear the site after installation. Make sure no foreign objects are left in the unit.
- Always ensure effective grounding for the unit.

🔨 Warning

All electric work must be performed by a licensed technician according to local regulations and the instructions given in this manual.

- Before installing, modifying, or servicing system, main electrical disconnect switch must be in the OFF position. There may be more than 1 disconnect switch. Lock out and tag switch with a suitable warning label.
- Never supply power to the unit unless all wiring and tubing are completed, reconnected and checked.
- This system adopts highly dangerous electrical voltage. Incorrect connection or inadequate grounding can cause personal injury or death. Stick to the wiring diagram and all the instructions when wiring.
- Have the unit adequately grounded in accordance with local electrical codes.
- Have all wiring connected tightly. Loose connection may lead to overheating and a possible fire hazard.

All installation or repair work shall be performed by your dealer or a specialized subcontractor as there is the risk of fire, electric shock, explosion or injury.



- Never install the unit in a place where a combustible gas might leak, or it may lead to fire or explosion.
- Make a proper provision against noise when the unit is installed at a telecommunication center or hospital.
- Provide an electric leak breaker when it is installed in a watery place.
- Never wash the unit with water.
- Handle unit transportation with care. The unit should not be carried by only one person if it is more than 20kg.
- Never touch the heat exchanger fins with bare hands.
- Never touch the compressor or refrigerant piping without wearing glove.
- Do not have the unit operate without air filter.
- Should any emergency occur, stop the unit and disconnect the power immediately.
- Properly insulate any tubing running inside the room to prevent the water from damaging the wall.

# 2.Specifications

# 2.1 Unit Specifications

Model	GWH(07)MA-K3DNA3B/I GWH(07)MA-K3DNC5B/I GWH(07)MA- K3DNB8B/I(Cold plasma)	GWH(09)MA-K3DNA2B/I GWH(09)MA-K3DNA3B/I GWH(09)MA-K3DNB8B/I GWH(09)MA-K3DNC5B/I GWH(09)MA- K3DNB8B/I(Cold plasma)	GWH(12)MB-K3DNA2B/I GWH(12)MB-K3DNA3B/I GWH(12)MB-K3DNB8B/I GWH(12)MB-K3DNC5B/I GWH(12)MB- K3DNB8B/I(Cold plasma)	GWH(18)MC-K3DNA2B/I GWH(18)MC-K3DNA3B/I GWH(18)MC-K3DNC5B/I GWH(18)MC- K3DNB8B/I(Cold plasma)
Product Code	CB171N0400 CB179N00900 CB174N02100	CB181N02700 CB171N0340 CB174N01900 CB179N01000 CB174N01901	CB181N02800 CB171N0350 CB174N02000 CB179N01100 CB174N02001	CB181N02900 CB171N0360 CB179N01200 CB174N02200
Capacity(Cooling)(W)	2100	2600	3500	5300
Capacity(Heating)(W)	2600	2800	3800	5800
Fan Motor Speed (r/min) (SH/H/M/L)	1200/1050/920/730	1260/1050/920/730	(1260)/1070/900/730	1350/1200/1050/900
Airflow(m³/h)	450	500	630	850
Output of Fan Motor (W)	10	10	20	20
Input Power of Heater (W)	/	/	/	1
Fan Motor Capacitor (µF)	1	1	1	1.5
Fan Motor RLA(A)	0.23	0.23	0.37	0.48
Fan Type	Cross flow fan	Cross flow fan	Cross flow fan	Cross flow fan
Diameter-Length (mm)	Ф85X596	Ф85X596	Ф92Х645	Ф98X710
Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
Pipe Diameter (mm)	Φ7	Φ7	Φ7	Φ7
Row-Fin Gap(mm)	2-1.5	2-1.5	2-1.4	2-1.4
Coil length (I)Xheight (H)X coil width (L)	581X264X25.4	581X264X25.4	645X267X25.4	715X304.8X25.4
Swing Motor Model	MP24AA	MP24AA	MP24AA	MP28VB
Output of Swing Motor (W)	1.5	1.5	1.5	2
Fuse (A)	PCB 3.15A	PCB 3.15A	PCB 3.15A	PCB 3.15A
Sound Pressure Level dB (A) (SH/H/M/L/SL)	36/34/31/28/-	37/34/31/28/-	38/34/32/30/-	46/43/40/36/-
Sound Power Level dB (A) (SH/H/M/L/SL)	46/44/41/38/-	47/44/41/38/-	48/44/42/40/-	56/53/40/36/-
Dimension (WXHXD)( mm)	790X265X170	790X265X170	845X275X180	940X298X200
Dimension of Carton Box (LXWXH)	870X248X355	870X248X355	915X255X355	1010X285X380
Dimension of Package (LXWXH)( mm)	873X251X370	873X251X370	918X258X370	1013X288X395
Liquid connections Diameter	Φ6(1/4″)	Ф6(1/4″)	Ф6(1/4″)	Ф6(1/4″)
Gas connections Diameter	Φ9.52(3/8″)	Φ9.52(3/8″)	Ф9.52(3/8")	Φ12(1/2″)
Net Weight /Gross Weight (kg)	9/12	9/12	10/13	13/17

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



2.2 Noise Criteria Curve Tables for Both Models



# **3. Construction Views**







7K&09K



12K



Model(mm)	W	Н	D	Q	R	S
7K&09K	790	265	170	35	605	150
12K	845	275	180	134	540	171
18K	940	298	200	108	694	138

# 4. Refrigerant System Diagram

#### **Cooling & Heating Models**



A1:A-unit electronic expansion valve C1:C-unit electronic expansion valve A2:A-unit gas pipe temperature sensor C2:C-unit gas pipe temperature sensor A3:A-unit liquid pipe temperature sensor C3:C-unit liquid pipe temperature sensor B1:B-unit electronic expansion valve D1:D-unit electronic expansion valve D2:D-unit gas pipe temperature sensor B3:B-unit liquid pipe temperature sensor D3:D-unit liquid pipe temperature sensor

# 5. Schematic Diagram

### 5.1 Electrical Data

Meaning of marks

Symbol	Color symbol	Symbol	Color symbol
WH	WHITE	BN	BROWN
YE	YELLOW	BU	BLUE
RD	RED	BK	BLACK
YEGN	YELLOW GREEN	VT	VIOLET
OG	ORANGE	(	PROTECTIVE EARTH
SAT	OVERLOAD	COMP	COMPRESSOR

# **5.2 Electrical Wiring**

### For 07/09/12K Unit



#### For 18K Unit



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

### **5.3 Printed Circuit Board**

#### For 07/09/12K Unit



1	Power supply live wire connector	5	Indoor fan wire terminal	9	Jumper cap terminal
2	Power supply neutral wire connector	6	indoor and outdoor unit communication wire terminal	10	Display panel terminal
3	Fan capacitor	7	Up & down swing control terminal	11	Indoor ambient temperature sensor
4	Health function terminal(optional)	8	Indoor fan feedback terminal	12	Indoor pipe temperature sensor
				13	Protective tube

#### • BOTTOM VIEW



#### • TOP VIEW

For 18K Unit



1	Power supply live wire connector
2	Power supply neutral wire connector
3	Protective tube
4	Fan capacitor
5	PG motor connector
6	Auto button
7	Up & down swing connector
8	PG motor fan feedback terminal
9	Display panel connector
10	Indoor and outdoor unit communication wire terminal
11	Jumper cap terminal
12	Indoor ambient temperature sensor
13	Indoor pipe temperature sensor
14	Health function terminal(optional)

#### • BOTTOM VIEW



# 6. Function and Control

# 6.1 Remote Control Operations



1 ON/OFF

Press it to start or stop operation.

- 2 -:
  - Press it to decrease temperature setting.
- 3 +:
  - Press it to increase temperature setting.
- 4 FAN
  - Press it to set fan speed.
- 5 MODE
  - Press it to select operation mode (AUTO/COOL/DRY/FAN/HEAT).
- 6 I FEEL
- 7 着
  - Press it to set HE ALTH function
- 8 1
  - Press it to set AIR function.
- 9 CLOCK
  - Press it set clock.
- 10 TIMER ON
  - Press it to set auto-on timer.
- 11 🔰
  - Press it set swing angle.
- 12 X-FAN (X-FAN is the alternative expression of BLOW for the purpose of understanding.)
- 13 TEMP
- 14 TIMER OFF
  - Press it to set auto-off timer
- 15 TURBO
- <sup>16</sup> SLEEP
- 17 LIGHT

Press it to turn on/off the light.



### 18 MODE icon:

If MODE button is pressed, current operation mode icon 🛆 (AUTO), 🏶 (COOL), 🖧 (DRY), 💲 (FAN) or 🂢 (HEAT only for heat pump models) will show.

#### 19 SLEEP icon : C: is displayed by pressing the SLEEP button. Press this button again to clear the display. 20 TEMP icon: Pressing TEMP button, 🗋 (set temperature), 🏦 (ambient temperature), 🏦 (outdoor ambient temperature) and blank is displayed circularly. 21 Up & down swing icon: 🛪 is displayed when pressing the up & down swing button. Press this button again to clear the display. 22 LIGHT icon: in s displayed by pressing the LIGHT button. Press LIGHT button again to clear the display. 23 LOCK icon: is displayed by pressing "+" and "-" buttons simultaneously. Press them again to clear the display. 24 SET TIME display: After pressing TIMER button, ON or OFF will blink. This area will show the set time. 25 TURBO icon: (9) is displayed when pressing the TURBO button. Press this button again to clear the display. 26 DIGITAL display: This area will show the set temperature. In SAVE mode, "SE" will be displayed. During defrosting operation, "H1" will be displayed. 27 AIR icon: 1 is displayed when pressing the AIR button. Press this button again to clear the display. 28 I FEEL icon: 🛊 is displayed when pressing the I FEEL button. Press this button again to clear the display. 29 FAN SPEED display: Press FAN button to select the desired fan speed setting (AUTO Low-Med-High). Your selection will be displayed in the LCD windows, except the AUTO fan speed. 30 HEALTH icon: $\hat{m{\uparrow}}$ is displayed when pressing the HEALTH button. Press this button again to clear the display.

#### 31 X-FAN icon:

A is displayed when pressing the X-FAN button. Press this button again to clear the display.

#### 1 ON/OFF:

Press this button to turn on the unit .Press this button again to turn off the unit.

Low speed

#### 2 -:

Press this button to decrease set temperature. Hold it down for above 2 seconds to rapidly decrease set temperature. In AUTO mode, set temperature is not adjustable.

#### 3 +:

Press this button to increase set temperature. Hold it down for above 2 seconds to rapidly increase set temperature. In AUTO mode, set temperature is not adjustable.

#### 4 FAN :



High speed

#### 5 MODE :

Each time you press this button, a mode is selected in a sequence that goes from AUTO,COOL,DRY, FAN,and HEAT \*, as the following:



Medium speed

\*Note: Only for models with heating function.

After energization, AUTO mode is defaulted. In AUTO mode, the set temperature will not be displayed on the LCD, and the unit will automatically select the suitable operation mode in accordance with the room temperature to make indoor room comfortable.

#### 6 I FEEL:

Press this button to turn on I FEEL function. The unit automatically adjust temperature according to the sensed temperature. Press this button again to cancel I FEEL function.

#### 7 着

Press this button to set HEALTH function ON or OFF. After the unit is turned on, it defaults to HEALTH function ON.

#### 8 1

Press this button to select AIR function ON or OFF.

#### 9 CLOCK :

Pressing CLOCK button,  $\bigcirc$  blinks. Within 5 seconds, pressing + or - button adjusts the present time. Holding down either button above 2 seconds increases or decreases the time by 1 minute every 0.5 second and then by 10 minutes every 0.5 second. During blinking after setting, press CLOCK button again to confirm the setting, and then  $\bigcirc$  will be constantly displayed.

#### 10 TIMER ON :

Press this button to initiate the auto-ON timer. To cancel the auto-timer program, simply press this button again.

After pressing this button, (1) disappear sand " ON " blink s . 00:00 is displayed for ON time setting. Within 5 seconds, press + or - button to adjust the time value. Every press of either button changes the time setting by 1 minute. Holding down either button rapidly changes the time setting by 1 minute and then 10 minutes. Within 5 seconds after setting, press TIMER ON button to confirm.

#### 11 🔰

Press this button to set up & down swing angle, which circularly changes as below:



This remote controller is universal. If any command, or is sent out,  $\Rightarrow []$ ,  $\Rightarrow []$ ,  $\Rightarrow []$ , the unit will carry out the command as  $\Rightarrow []$  indicates the guide louver swings as:

#### 12 X-FAN:

Pressing X -FAN button in COOL or DRY mode, the icon  $\Re$  is displayed and the indoor fan will continue operation for 10 min utes in order to dry the indoor unit even though you have turned off the unit. After energization, X-FAN OFF is defaulted. X-FAN is not available in AUTO, FAN or HEAT mode.

#### 13 TEMP:

Press this button, could select displaying the indoor setting temperature or indoor ambient temperature. When the indoor unit firstly power on it will display the setting temperature, if the temperature's displaying status is changed from other status to " (1), ", displays the ambient temperature, 5s later or within 5s, it receives other remote control signal that will return to display the setting temperature. If the users haven't set up the temperature displaying status, that will display the setting temperature.

#### 14 TIMER OFF :

Press this button to initiate the auto-off timer. To cancel the auto-timer program, simply press the button again. TIMER OFF setting is the same as TIMER ON.

#### 15 TURBO:

Press this button to activate / deactivate the Turbo function which enables the unit to reach the preset temperature in the shortest time. In COOL mode, the unit will blow strong cooling air at super high fan speed. In HEAT mode, the unit will blow strong heating air at super high fan speed.

#### 16 SLEEP:

Press this button to go into the SLEEP operation mode. Press it again to cancel this function. This function is available in COOL, HEAT (Only for models with heating function) or DRY mode to maintain the most comfortable temperature for you.

#### 17 LIGHT:

Press LIGHT button to turn on the display's light and press this button again to turn off the display's light. If the light is turned on,  $\hat{V}$  is displayed. If the light is turned off,  $\hat{V}$  disappears.

#### 18 Combination of "+" and "-" buttons: About lock

Press "+ " and "-" buttons simultaneously to lock or unlock the keypad. If the remote controller is locked, is displayed. In this case, pressing any button, is blinks three times.

19 Combination of "MODE" and "-" buttons: About switch between Fahrenheit and Centigrade At unit OFF, press "MODE" and "- " buttons simultaneously to switch between and .

#### **Replacement of Batteries**

1.Remove the battery cover plate from the rear of the remote controller.

(As shown in the figure)

2. Take out the old batteries.

3.Insert two new AAA1.5V dry batteries, and pay attention to the polarity.

4. Reinstall the battery cover plate.

#### Notes:

•When replacing the batteries, do not use old or different types of batteries, otherwise, it may cause malfunction.

•If the remote controller will not be used for a long time, please remove batteries to prevent batteries from leaking.

•The operation should be performed in its receiving range.

•It should be kept 1m away from the TV set or stereo sound sets.

•If the remote controller does not operate normally, please take the

batteries out and reinsert them after 30 seconds. If it still can't operate properly, replace the batteries.





Sketch map for replacing batteries

# 6.2 Description of Each Control Operation

### I. Basic Operation Mode

1. Cool; 2.Dry; 3.Heat; 4.Auto; 5.Fan

#### **II. Basic Functions**

- 1. Cooling Only
- (1) Under this mode, fan and swing run at preset status, the temperature setting range is 16-30°C.



indoor temperature---target temperature

- (2) Under malfunction for outdoor unit and protection stop, the indoor unit runs with the original status, and display malfunction.
- (3) The indoor fan stops when the modes conflict with each other.

#### 2. Dry Mode

- (1) Under this mode, the indoor fan runs with low speed, and swing runs at preset status, the temperature setting range is 16-30°C.
- (2) Under malfunction for outdoor unit and protection stop, the indoor unit runs with the original status, and display malfunction.

#### 3. Heating Mode

(1) Under this mode, the temperature setting range is 16-30°C.



#### (2) Working condition and Process of Heating

When the unit is ON and in heating mode, indoor fan starts cold air prevention operation; when the unit is off and the indoor fan stopped before, it blows residual heat.

(3) Protection Function. The compressor stops as the malfunction (including any temperature sensor malfunction) in heating mode, the indoor fan runs with blowing residual heat.

#### Working Methods of Auto Mode

- 1) When Tamb.≥26°C(°F), it operates in Cool mode.
- 2) For heat pump unit, when Tamb.≤22°C, it operates in Heat mode.
- 3) When 22°C< Tamb.< 26°C, it operates in auto fan mode upon initial startup of the unit. When changing to auto mode from other modes, it will keep the previous operation mode (when it enter Dry mode, it operates in auto fan mode.).



#### 5. Fan Mode

Only indoor fan operates in Fan mode. Under auto fan speed, it runs in cooling auto fan mode.

#### **III. Other Control**

#### 1. Buzzer

The buzzer will give out a beep when the controller is energized, receiving signal from remote controller and auto button.

#### 2. Auto Button

Press this button once, it will operate in Auto mode, and indoor fan operates in Auto fan mode and swing. When the unit is on, pressing this button will turn off the unit.

3. Auto Fan

a. Auto fan speed in Heat mode

When Tamb.≤Tpreset, the indoor fan operates at high speed;

When Tpreset<Tamb.<Tpreset+2°C, the indoor fan operates at middle speed;

When Tamb≥Tpreset+2℃, the indoor fan operates at low speed.

b. Auto fan speed in CooL and Fan mode

When Tamb≥Tpreset+3 $^{\circ}$ C, the indoor fan operates at high speed;

When Tpreset<Tamb.<Tpreset+3°C, the indoor fan operates at middle speed;

When Tamb.≤Tpreset+1°C, the indoor fan operates at low speed.

c. The auto fan speed is at low speed in Dry mode.

Note: Under auto fan speed, it will shift between high speed and middle speed, middle speed and low speed, high speed and low speed, the operation time must be 3.5min at least.

#### 4. Sleep

4.1 The unit will select suitable sleep curve according to set temperature.

4.2 Sleep curve in Heat mode



#### 5. Timer Function

(1) General Timer:

- 1.1 Time On: if Timer On is set when the system is, the controller will operate in the original setting mode after reaching the timer on time. The timer interval is 0.5h, and the setting range is 0.5-24h.
- 1.2 Timer Off: Timer Off can be set when the unit is on. The unit will be off when timer off time is realized. The timer interval is 0.5h, and the setting range is 0.5-24h.

(2) Clock Timer:

- 2.1 Timer On: If Timer On is set when the system runs, it will continue to run; if Timer On is set when the system is off, the system will start to run in the original setting mode when timer on time is reached.
- 2.2 Timer Off: If timer off is set when the system is off, the system keeps stand-by status; if timer off is set when the system is on, the system stops when reaching timer off time.

#### Function and Control

#### 2.3 Timer Change

Timer On and Timer OFF can be set via remote ON/OFF button. Timer time can be reset and the system will operate according to the latest setting.

When the unit is on and Timer On and Timer Off are both set, the system will operate according to the set state. When the timer off time is reached, the system will stop.

When the system stops, and Timer On and Timer Off are both set, the system will remain stop until timer on time is reached. After that, the unit will operate according to the set mode everyday when the timer on time is reached. When the timer off time is reached, the system will stop. If timer on time is the same as timer off time, the system will stop.

#### 6. Memory Function

Memory contents: mode, up& down swing, light, set temperature, set fan speed, general timer (but clock timer). After power failure, if the unit is reenergized, it will operate according to memory contents. If Timer function is not set in the last remote control, the system will operate according to the last remote control.

If general timer function is set in the last remote control and power failure occurs before timer time is reached, the unit will operate according to the timer function set in the last remote control. Timer time is calculated after the unit is re-energized.

If general timer function is set in the last remote control and power failure occurs after timer time is reached, the system will operate according to the memory content before power failure. Timer operation is not memorized.

#### 7. Health Function

When the unit is on and the indoor fan operates, press Health button to start this function (if there is no Health button, health operation is defaulted). When indoor fan stops or turning of health function by remote controller, health function will be off.

#### 8. I Feel Function

When the controller receives I Feel order, the controller will operate according to the ambient temperature. The remote controller will send ambient temperature to the controller every 10min. If the controller does not receive the ambient temperature sent by remote controller for 11min, the air conditioner will operate according the ambient temperature around it. If I Feel function is not set, the air conditioner will operate according the ambient temperature around it. This function is not memorized upon power failure.

#### 9. Reserved Fahrenheit Temperature

The nixie tube will display the set temperature in Celsius temperature or Fahrenheit Temperature according to the order. Setting range is  $16\sim30^{\circ}$  ( $61\sim86^{\circ}$ F). In Auto mode, it will display  $25^{\circ}$  ( $77^{\circ}$ F) during cooling and fan operation, and display  $20^{\circ}$  ( $68^{\circ}$ F) during heating operation. For cooling only unit, it displays  $25^{\circ}$  ( $77^{\circ}$ F).

The indoor temperature displayed is sent by remote controller, ranging from  $0~60^{\circ}$  ( $32~99^{\circ}$ F). If outdoor ambient temperature is received, the display remains the same. If valid control signal is received, it will display set temperature for 5s and then resume displaying ambient temperature.

For units with memory function, set temperature will be displayed after re-energizing the unit.

#### 10. Cold Plasma Function

Turning on the cold plasma function with remote controller when the fan operates, this function will act.

Turning off the cold plasma function with remote controller or turning off the fan, this function will end.

#### 12. Defrosting Mode Switch

If there is no H1 displayed, turn on the unit with remote controller and enter "Defrosting mode 1". When the indoor unit receives remote control signal, it will send the signal to the outdoor unit.

If there is H1 displayed, turn on the unit with remote controller and enter "Defrosting mode 2". When the indoor unit receives remote control signal, it will send the signal to the outdoor unit.

Press mode and auxiliary heating button to switch between "Defrosting mode 1" and "Defrosting mode 2".

#### 13. Forcible Defrosting Function

When the unit is in Heat mode and set temperature is 16°C, press "+, -, +, -, +, -," successively for 5s, and the indoor unit will enter forcible defrosting setting and send the signal to the outdoor unit.

When the indoor unit receives forcible defrosting signal from the outdoor unit, it will exit forcible defrosting setting.

#### 14. Refrigerant Recovery Function

Enter refrigerant recovery mode: turn on the unit within 5 min after energization and at 16°C cooling mode. Press remote controller light off button successively for 3 times within 3s and the unit will enter refrigerant recovery mode, displaying Fo. The signal will be sent to the outdoor unit.

Exit refrigerant recovery mode: during refrigerant recovery, if any signal from remote controller is received or refrigerant recovery lasts for 25min, it will exit this mode.

Action of entering refrigerant recovery mode: the indoor fan will operate in Cool mode. The fan speed is high and set temperature is  $16^{\circ}$ C. The horizontal louver will be at the smallest angle.

Action of exit refrigerant recovery mode: the indoor fan will operate according to the last remote control setting.

#### 15. Pre-operation Function

When Cool mode at 30 °C is set, press "-, +, -, +, -, +" successively for 3s, it will enter pre-operation mode. The signal will be sent to the outdoor unit.

Pre-operation mode: it performs cooling operation (indoor fan does not operate) and display "dd".

After exiting pre-operation mode, the indoor unit will stop displaying "dd". If the signal of "wrong wire connection or expansion valve malfunction" is received, "dn" will be displayed.

#### 16. Mode Conflict

When the mode of started unit is different from that of operating unit, the indoor unit will display mode conflict code "E7". The mode sent to the outdoor unit remains the one received by the remote controller.

# 7. Installation Manual

# 7.1 Notices for Installation

# Caution

1. The unit should be installed only by authorized service center according to local or government regulations and in compliance with this manual.

2.Before installing, please contact with local authorized maintenance center. If the unit is not installed by the authorized service center, the malfunction may not be solved due to incovenient contact between the user and the service personnel.

3. When removing the unit to the other place, please firstly contact with the local authorized service center.

4. Warning: Before obtaining access to terminals, all supply circuits must be disconnected.

5.For appliances with type Y attachment, the instructions shall contain the substance of the following. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

6.The appliance must be positioned so that the plug is accessible.

7. The temperature of refrigerant line will be high; please keep the interconnection cable away from the copper tube.

8. The instructions shall state the substance of the following:

This appliance is not intended for use by persons(including children)with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

#### 7.1.1 Installation Site Instructions

Proper installation site is vital for correct and efficient operation of the unit. Avoid the following sites where:

•strong heat sources, vapours, flammable gas or volatile liquids are emitted.

•high-frequency electro-magnetic waves are generated by radio equipment, welders and medical equipment.

•salt-laden air prevails (such as close to coastal areas).

•the air is contaminated with industrial vapours and oils.

•the air contains sulphures gas such as in hot spring zones.

•corrosion or poor air quality exists.

#### 7.1.2 Installation Site of Indoor Unit

1. The air inlet and outlet should be away from the obstructions. Ensure the air can be blown through the whole room.

2. Select a site where the condensate can be easily drained out, and where it is easily connected to outdoor unit.

3.Select a place where it is out of reach of children.

4. Select a place where the wall is strong enough to withstand the full weight and vibration of the unit.

5.Be sure to leave enough space to allow access for routine maintenance. The installation site should be 250cm or more above the floor.

6.Select a place about 1m or more away from TV set or any other electric appliance.

7.Select a place where the filter can be easily taken out.

8. Make sure that the indoor unit is installed in accordance with installation dimension instructions.

9.Do not use the unit in the laundry or by swimming pool etc.

#### 7.1.3 Safety Precautions for Electric Appliances

1.A dedicated power supply circuit should be used in accordance with local electrical safety regulations.

2.Don't drag the power cord with excessive force.

3. The unit should be reliably earthed and connected to an exclusive earth device by the professionals.

4. The air switch must have the functions of magnetic tripping and heat tripping to prevent short circuit and overload.

5. The minimum distance between the unit and combustive surface is 1.5m.

6. The appliance shall be installed in accordance with national wiring regulations.

7.An all-pole disconnection switch with a contact separation of at least 3mm in all poles should be connected in fixed wiring. **Note:** 

### •Make sure the live wire, neutral wire and earth wire in the family power socket are properly

connected. There should be reliable circuit in the diagram.

#### •Inadequate or incorrect electrical connections may cause electric shock or fire.

#### 7.1.4 Earthing Requirements

1. Air conditioner is type I electric appliance. Please ensure that the unit is reliably earthed.

2. The yellow-green wire in air conditioner is the earthing wire which can not be used

for other purposes. Improper earthing may cause electric shock.

3. The earth resistance should accord to the national criterion.

4. The power must have reliable earthing terminal. Please do not connect the earthing wire with the following:

(1) Water pipe (2) Gas pipe (3) Contamination pipe

4 Other place that professional personnel consider is unreliable

5. The model and rated values of fuses should accord with the silk print on fuse cover or related PCB.

### 7.2 Installation Drawing



# 7.3 Install Indoor Unit

#### 7.3.1 Installation of Mounting Plate

1. Mounting plate should be installed horizontally. As the water tray's outlet for the indoor unit is two-way type, during installation, the indoor unit should slightly slant to water tray's outlet for smooth drainage of condensate.

2.Fix the mounting plate on the wall with screws.

3.Be sure that the mounting plate has been fixed firmly enough to withstand about 60 kg. Meanwhile, the weight should be evenly shared by each screw.

07&09K UNIT:



#### 7.3.2 Drill Piping Hole

1. Make the piping hole ( $\Phi$ 55) in the wall at a slight downward slant to the outdoor side.

2. Insert the piping-hole sleeve into the hole to prevent the connection piping and wiring from being damaged when passing through the hole.

#### 7.3.3 Installation of Drain Hose

1.Connect the drain hose to the outlet pipe of the indoor unit. Bind the joint with rubber belt.

2.Put the drain hose into insulating tube.

3.Wrap the insulating tube with wide rubber belt to prevent the shift of insulating tube. Slant the drain hose downward slightly for smooth drainage of condensate.

Note: The insulating tube should be connected reliably with the sleeve outside the outlet pipe. The drain hose should be slanted downward slightly, without distortion, bulge or fluctuation. Do not put the outlet in the water.

#### 7.3.4 Connecting Indoor and Outdoor Electric Wires

1.Open the front panel.

2.Remove the wiring cover as shown in Fig 6.

3.Make the power connection cord pass through the hole at the back of indoor unit.

4.Reinstall the cord anchorage and wiring cover.

5.Reinstall the front panel.



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#### NOTE:

#### All wires between indoor and outdoor units must be connected by the qualified electric contractor.

- Electric wires must be connected correctly. Improper connection may cause malfunction.
- Tighten the terminal screws tightly.
- After tightening the screws, pull the wire slightly to confirm whether it's firm or not.
- Make sure that the electric connections are earthed properly to prevent electric shock.

• Make sure that all wiring connections are secure and the cover plates are reinstalled properly. Poor installation may cause fire or electric shock.

#### 7.3.5 Installation of Indoor Unit

•The piping can be output from right, right rear, left or left rear.

1. When routing the piping and wiring from the left or right side of indoor unit, cut off the

tailings from the chassis when necessary(As shown in Fig.7)

(1) Cut off tailing 1 when routing the wiring only;

(2) Cut off tailing 1 and tailing 2 when routing both the wiring and piping.

2. Take out the piping from body case; wrap the piping,

power cords, drain hose with the tape and then make

them pass through the piping hole. (As shown in Fig.8)

3.Hang the mounting slots of the indoor unit on the upper hooks of the mounting plate and check if it is firm enough. (As shown in Fig.9)

4. The installation site should be 250cm or more above the floor.

#### 7.3.6 Installation of Connection Pipe

 Align the center of the pipe flare with the related valve.
Screw in the flare nut by hand and then tighten the nut with spanner and torque wrench by referring to the following:

Tube diameter	Tightening torque,approximate(N·m)
Ф6.35(1/4")	14∼18N·m(140-180kgf.cm)
Ф9.52(3/8")	34∼42N·m(340-420kgf.cm)
Φ12.7(1/2")	49∼61N·m(490-610kgf.cm)
Ф15.88(5/8")	68∼82N·m(680-820kgf.cm)





NOTE: Connect the connection pipe to indoor unit at first and then to outdoor unit. Handle piping bending with care. Do not damage the connection pipe. Ensure that the joint nut is tightened firmly, otherwise, it may cause leakage.

# 7.4 Check after Installation and Operation Test

#### 7.4.1 Check after Installation

Items to be checked	Possible malfunction
Has it been fixed firmly?	The unit may drop, shake or emit noise.
Have you done the refrigerant leakage test?	It may cause insufficient cooling(heating) capacity
Is heat insulation sufficient?	It may cause condensation and dripping.
Is water drainage satisfactory?	It may cause condensation and dripping.
Is the voltage in accordance with the rated voltage marked on the nameplate?	It may cause electric malfunctionor damage the product.
Is the electric wiring and piping connection installed correctly and securely?	It may cause electric malfunction or damage the part.
Has the unit been connected to a secure earth connection?	It may cause electrical leakage.
Is the power cord specified?	It may cause electric malfunctionor damage the part.
Are the inlet and outlet openings blocked?	It may cause insufficient cooling(heating) capacity.
Is the length of connection pipes and refrigerant capacity been recorded?	The refrigerant capacity is not accurate.

#### 7.4.2 Operation Test

**1.Before Operation Test** 

(1)Do not switch on power before installation is finished completely.

(2)Electric wiring must be connected correctly and securely.

(3)Cut-off valves of the connection pipes should be opened.

(4)All the impurities such as scraps and thrums must be cleared from the unit.

2.Operation Test Method

(1)Switch on power and press "ON/OFF"?button on the remote controller to start operation.

(2)Press MODE button to select the COOL, HEAT (Not available for cooling only unit), FAN to check whether the operation is normal or not.

# 7.5 Installation and Maintenance of Healthy Filter

#### 7.5.1 Installation of Healthy Filter

1.Lift up the front panel from its two ends, as shown by the arrow direction, and then remove the air filter.(as shown in Fig.a)



3.Install the air filter properly along the arrow direction in Fig.c, and then close the panel.

#### 7.5.2 Cleaning and Maintenance

Remove the healthy filter and reinstall it after cleaning according to the installation instruction. Don't use brush or hard things to clean the filter. After cleaning, be sure to dry it in the shade.

#### 7.5.3 Service Life

The general serive life for the healthy filter is about one year under normal condition. As for silver ion filter, it is invalid when its surface becomes black (green).

•This supplementary instruction is provided for reference to the unit with healthy filter. If the graphics provided herein is different from the actual product, please refer to the atual product. The quantity of healthy filters is based on the actual delivery.





# 8. Exploded Views and Parts List

Models: GWH(07)MA-K3DNA3B/I GWH(07)MA-K3DNC5B/I GWH(09)MA-K3DNA2B/I GWH(09)MA-K3DNA3B/I GWH(09)MA-K3DNB8B/I GWH(09)MA-K3DNC5B/I



Description     GWH(07)MA-K3DNA3B/I     GWH(07)MA-K3DNA3B/I     PM(07)MA-K3DNA3B/I     PM       Product Code     CB171N0400     CB179N003000     1       1     Receiver Window     20012221     20012311     1       2     Front Panel Assy     20012241     2001211     2       4     Screw Cover     24252016     33       5     Front Case     20012120C     20012179C     1       6     Air Louver 1     10512114     10512113     1       7     Air Louver 1     10542704     10542704     1       9     Axile Bush     10542704     10542704     1       10     Rear Case assy     2220210101     2220210101     1       11     Ruber Plug (Water Tray)     76712012     76712012     1       12     Ring of Bearing     78512051     1     1       13     O-Gasket sub-assy of Bearing     78512051     1     1       14     Cross Flow Fan     10352018     1     1       15     Remote Controller	No.	Description	Part	Code	
Product Code     CB171N0400     CB172N0400       1     Receiver Window     2019229     22432194     1       2     Front Panel Assy     2012241     2001211     1       3     Filter Sub-Assy     11122081     11122081     1       4     Screw Cover     24252016     24252016     33       5     Filter Sub-Assy     10512114     10512114     1       6     Air Lower 2     10512113     10512113     1       7     Air Lower 1     10512113     10512113     1       8     Helicoid tongue     28112162     2112162     1       9     Axile Such     10542704     10542704     1       10     Rear Case assy     2220210101     222021011     1       11     Rubber Plug (Water Tray)     76712012     76712012     1       11     Rubber Plug (Water Tray)     76712013     11     1       12     Ring of Bearing     76512051     76512051     1       14     Cronse Flow Fan     30510049		Description	GWH(07)MA-K3DNA3B/I	GWH(07)MA-K3DNC5B/I	Qty
1     Receiver Window     2019229     22432194     1       2     Fron Panel Assy     20012241     200131     1       3     Filter Sub-Assy     2012201     20122016     3       4     Screw Cover     24252016     24252016     3       5     Front Case     20012100C     2012179C     1       6     Air Louver 1     10512113     10512113     1       7     Air Louver 1     10512113     10512113     1       8     Helicoid tongue     28112162     28112162     1       9     Axile Bush     10542704     10542704     1       10     Rear Case assy     2220210101     2220210101     1       11     Rubg of Bearing     76512012     76712012     1       11     Rubg of Bearing     76512051     1     1       12     Ring of Bearing     2851202     2615022     1       13     O-Gasket sub-assy of Bearing     76512051     1     1       14     Cross Flow Fan     3		Product Code	CB171N0400	CB179N00900	
2     Front Panel Assy     20012241     20012811     1       3     Filter Sub-Assy     11122081     11122081     21       4     Screw Cover     24252016     24252016     3       5     Front Case     20012120C     20012179C     1       6     Air Louver 1     10512113     10512113     1       7     Air Louver 1     10542104     10542704     10542704       9     Axile Bush     10542704     10542704     1       10     Rear Case assy     2220210101     222021011     220201011     1       11     Rubber Plug (Water Tray)     76712012     76712012     1       11     Rubber Plug (Water Tray)     76712012     76712012     1       14     Cross Flow Fan     10352018     1     1       14     Cross Flow Fan     390000591     390000591     1       15     Remote Controller     390000591     390000591     1       16     Tube sensor     390000591     3900000453     1	1	Receiver Window	20192229	22432194	1
3     Filter Sub-Assy     11122081     11122081     2       4     Screw Cover     24252016     24252016     3       5     Front Case     20012120C     20012179C     1       6     Air Louver 2     10512113     10512113     1       7     Air Louver 1     10512113     10512113     1       8     Helicoid tongue     28112162     26112162     1       9     Axile Bush     10542704     10542704     1       10     Rear Case assy     2222010101     2220210101     210011       11     Rubber Plug (Water Tray)     76712012     76712012     1       11     Rung of Bearing     26152022     26152022     1       12     Ring of Bearing     26152051     1     1       14     Cross Flow Fan     10352018     1035010492     1       15     Remote Controller     390000591     390000591     1       16     Tube Sensor     390000453     390000591     1       17     Ambient Tempe	2	Front Panel Assy	20012241	20012611	1
4     Screw Cover     244252016     24252016     3       5     Front Case     20012120C     20012179C     1       6     Air Louver 2     10512114     10512113     1       7     Air Louver 1     10512113     10512113     1       8     Helicoid tongue     26112162     26112162     1       9     Axile Bush     100542704     10542704     1       10     Rar Case assy     2220210101     2220210101     1       11     Rubber Plug (Water Tray)     76712012     76712012     1       13     O-Gasket Sub-assy of Bearing     2052021     1     1       14     Cross Flow Fan     10352018     10352018     1       15     Remote Controller     390000591     390000591     1       16     Tube Sensor     390000453     390000591     1       17     Ambient Temperature Sensor     390000453     390000591     1       18     Connecting Cable     400204056     400204056     0       19	3	Filter Sub-Assy	11122081	11122081	2
5     Front Case     20012120C     20012179C     1       6     Ar Louver 2     10512114     10512114     1       7     Ar Louver 1     10512113     10512113     1       8     Helicoid tongue     26112162     26112162     1       9     Axile Bush     10542704     10542704     1       10     Rear Case assy     220201010     22045202     1       11     Rubber Plug (Water Tray)     76712012     76712012     1       12     Ring of Bearing     26152022     26152022     1       13     O-Gaskel sub-assy of Bearing     76512051     76712015     1       14     Cross Flow Fan     10352018     1     1       15     Remote Controller     305000591     390000591     1     1       16     Tube Sensor     390000453     390000453     1     1       16     Tube Sensor     390000453     30000453     1     1       17     Ambient Temperature Sensor     390000453     10     1 <td>4</td> <td>Screw Cover</td> <td>24252016</td> <td>24252016</td> <td>3</td>	4	Screw Cover	24252016	24252016	3
6     Air Louver 2     10512114     10512113     1       7     Air Louver 1     10512113     10     1       8     Helicoid tongue     26112162     26112182     1       9     Axile Bush     10542704     10542704     1       10     Rear Case assy     2220210101     2220210101     1       11     Rubber Plug (Water Tray)     76712012     76712012     1       12     Ring of Bearing     26152022     26152022     1       13     O-Gasket sub-assy of Bearing     76512051     76512051     1       14     Cross Flow Fan     10352018     133500492     1       15     Remote Controller     395000591     390000453     390000453     1       16     Tube Sensor     390000453     390000453     1     1       17     Ambient Temperature Sensor     390000453     390000453     1     1       18     Connecting Cable     400204056     400204056     0     1       19     Evaporator Support     24	5	Front Case	20012120C	20012179C	1
7     Air Louver 1     10512113     10512113     10512113       8     Helicoid tongue     28112162     26112162     1       9     Axile Bush     10542704     10542704     1       10     Rear Case assy     2220210101     2220210101     210011     1       11     Rubber Plug (Water Tray)     76712012     76712012     1     1       11     Rubber Plug (Water Tray)     76512051     76512051     1     1       12     Ring of Bearing     26152022     26152022     1     1       13     O-Gasket sub-assy of Bearing     76512051     1     1     1       14     Cross Flow Fan     10352018     10352018     1     1       15     Remote Controller     30510049     305100492     1     1       15     Remote Controller     39000453     390000453     10     1       16     Tube Sensor     39000453     390000453     1     1       17     Ambient Temperature Sensor     390000456     4002204056 <td>6</td> <td>Air Louver 2</td> <td>10512114</td> <td>10512114</td> <td>1</td>	6	Air Louver 2	10512114	10512114	1
8     Helicoid tongue     26112162     26112162     1       9     Axile Bush     10542704     10542704     1       10     Rear Case assy     2220210101     2220210101     1       11     Rubber Plug (Water Tray)     76712012     76712012     1       12     Ring of Bearing     26152022     26152022     1       13     O-Gasket sub-assy of Bearing     76512051     76512051     1       14     Cross Flow Fan     10352018     10352018     1       15     Remote Controller     39510049     305100492     1       16     Tube Sensor     390000591     390000453     390000453     1       17     Ambient Temperature Sensor     390000453     390000453     1     1       18     Connecting Cable     400204056     400204056     0     1       20     Evaporator Support     24212090     24212090     1     1       21     Wall Mounting Frame     0102274301     1     1       22     Motor Press Plate	7	Air Louver 1	10512113	10512113	1
9     Axile Bush     10542704     10542704     1       10     Rear Case assy     2220210101     2220210101     1       11     Rubber Plug (Water Tray)     76712012     76712012     1       12     Ring of Bearing     26152022     26152022     1       13     O-Gasket sub-assy of Bearing     76512051     76512051     1       14     Cross Flow Fan     10352018     10352018     1       15     Remote Controller     30510049     305100492     1       16     Tube Sensor     390000591     390000591     1       17     Ambient Temperature Sensor     390000453     390000453     390000453     1       18     Connecting Cable     400204056     400204056     0     1       20     Evaporator Support     24212090     24212090     1     1       21     Wall Moutring Frame     01252015     01252015     1     1       22     Motor Press Plate     26112160     1     1     1       23     Fan	8	Helicoid tongue	26112162	26112162	1
10     Rear Case assy     2220210101     2220210101     1       11     Rubber Plug (Water Tray)     76712012     76712012     1       12     Ring of Bearing     26152022     26152022     1       13     O-Gasket Sub-assy of Bearing     76512051     76512051     1       14     Cross Flow Fan     10352018     10352018     1       15     Remote Controller     30510049     305100492     1       16     Tube Sensor     390000591     390000591     1       17     Ambient Temperature Sensor     390000453     390000453     1       18     Connecting Cable     400204056     400204056     0       19     Evaporator Support     24212090     24212090     1       20     Evaporator Assy     0100274301     0100274301     1       21     Wall Mounting Frame     01252015     01252015     1       22     Motor Press Plate     26112160     1     1       23     Fan Motor     15012115     1     1	9	Axile Bush	10542704	10542704	1
11     Rubber Plug (Water Tray)     76712012     76712012     1       12     Ring of Bearing     28152022     26152022     1       13     O-Gasket sub-assy of Bearing     76512051     76512051     1       14     Cross Flow Fan     10352018     10352018     1       15     Remote Controller     30510049     305100492     1       16     Tube Sensor     390000591     390000453     1       17     Ambient Temperature Sensor     39000453     390000453     1       18     Connecting Cable     400204056     40024056     0       19     Evaporator Support     24212090     24212090     1       20     Evaporator Assy     0100274301     0100274301     1       21     Wall Mounting Frame     01252015     01252015     1       22     Motor Press Plate     26112160     26112164     1       23     Fan Motor     15012115     15012115     1       24     Pipe Clamp     26112164     1     1	10	Rear Case assy	2220210101	2220210101	1
12     Ring of Bearing     26152022     26152022     1       13     O-Gasket sub-assy of Bearing     76512051     76512051     1       14     Cross Flow Fan     10352018     10352018     1       15     Remote Controller     30510049     305100492     1       16     Tube Sensor     390000591     390000453     390000453     1       17     Ambient Temperature Sensor     390000453     390000453     1     1       18     Connecting Cable     400204056     400204056     0     1       20     Evaporator Support     24212090     24212090     1     1       21     Wall Mounting Frame     01252015     011252015     1     1       22     Motor Press Plate     26112160     26112160     1     1       23     Fan Motor     1521210801     1521210801     1     1       24     Pipe Clamp     26112160     0523001406     0523001406     1     1       25     Drainage hose     0523001406     152121	11	Rubber Plug (Water Tray)	76712012	76712012	1
13     O-Gasket sub-assy of Bearing     76512051     76512051     76512051     1       14     Cross Flow Fan     10352018     10352018     1       15     Remote Controller     30510049     305100492     1       16     Tube Sensor     390000591     390000531     1       17     Ambient Temperature Sensor     390000453     390000453     1       18     Connecting Cable     400204056     400204056     0       19     Evaporator Support     24212090     24212090     1       20     Evaporator Assy     0100274301     0100274301     1       21     Wall Mounting Frame     01252015     01252015     1       22     Motor Press Plate     26112160     26112164     1       23     Fan Motor     15012115     15012115     1       24     Pipe Clamp     26112164     1     1       25     Drainage hose     0523001406     0523001406     1       26     Step Motor     10521210801     10582070     1	12	Ring of Bearing	26152022	26152022	1
14     Cross Flow Fan     10352018     10352018     1       15     Remote Controller     30510049     305100492     1       16     Tube Sensor     390000591     390000453     1       17     Ambient Temperature Sensor     390000453     390000453     1       18     Connecting Cable     400204056     400204056     0       19     Evaporator Support     24212090     24212090     1       20     Evaporator Assy     0100274301     0100274301     1       21     Wall Mounting Frame     01252015     01252015     1       22     Motor Press Plate     26112160     26112160     1       23     Fan Motor     15012115     15012115     1       24     Pipe Clamp     26112164     26112164     1       25     Drainage hose     0523001406     0523001406     1       26     Step Motor     10512110     10582070     1     1       27     Crank     100542704     10054208     1     1 <td>13</td> <td>O-Gasket sub-assy of Bearing</td> <td>76512051</td> <td>76512051</td> <td>1</td>	13	O-Gasket sub-assy of Bearing	76512051	76512051	1
15     Remote Controller     30510049     305100492     1       16     Tube Sensor     390000591     390000591     1       17     Ambient Temperature Sensor     390000453     390000453     390000453     1       18     Connecting Cable     400204056     400204056     0     1       20     Evaporator Support     24212090     24212090     1       20     Evaporator Assy     0100274301     0100274301     1       21     Wall Mounting Frame     01252015     01252015     1       22     Motor Press Plate     26112160     26112160     1       23     Fan Motor     15012115     15012115     1       24     Pipe Clamp     26112164     26112164     1       25     Drainage hose     0523001406     0523001406     1       26     Step Motor     1521210801     1521210801     1       27     Crank     10552070     10582070     1       28     Display Board     30565007     3056504301     1 </td <td>14</td> <td>Cross Flow Fan</td> <td>10352018</td> <td>10352018</td> <td>1</td>	14	Cross Flow Fan	10352018	10352018	1
16Tube Sensor3900005913900005911177Ambient Temperature Sensor390000453390000453118Connecting Cable400204056400204056019Evaporator Support2421209024212090120Evaporator Assy01002743010100274301121Wall Mounting Frame0125201501252015122Motor Press Plate2611216026112160123Fan Motor1501211515012115124Pipe Clamp2611216426112164125Drainage hose05230014060523001406126Step Motor15212108011521210801127Crank1055207010582070128Display Board305650073056504301129Guide Louver1051211110512111130Axile Bush105427041054208131Electric Box20112105012011210501133Capacitor CB8613301000233010002134Electric Box Cover22012207520122075135Jumper42023001014202300101136Main Board301386551137Shield cover of Electric Box sub-assy01592073010159207301138Electric Box Cover120122103201221031	15	Remote Controller	30510049	305100492	1
17     Ambient Temperature Sensor     390000453     39000453     1       18     Connecting Cable     400204056     400204056     0       19     Evaporator Support     24212090     24212090     1       20     Evaporator Assy     0100274301     0100274301     1       21     Wall Mounting Frame     01252015     01252015     1       22     Motor Press Plate     26112160     26112160     1       23     Fan Motor     15012115     15012115     1       24     Pipe Clamp     26112160     0523001406     0523001406     1       25     Drainage hose     0523001406     0523001406     1     1       26     Step Motor     1521210801     1521210801     1       27     Crank     10582070     3056504301     1       28     Display Board     30565007     3056504301     1       29     Guide Louver     10512111     10512111     1       30     Axile Bush     10542704     10542008     1	16	Tube Sensor	390000591	390000591	1
18     Connecting Cable     400204056     400204056     0       19     Evaporator Support     24212090     24212090     1       20     Evaporator Assy     0100274301     0100274301     1       21     Wall Mounting Frame     01252015     01252015     1       22     Motor Press Plate     26112160     26112160     1       23     Fan Motor     15012115     15012115     1       24     Pipe Clamp     26112164     26112164     1       25     Drainage hose     0523001406     0523001406     1       26     Step Motor     1521210801     1     1       27     Crank     10582070     10582070     1       28     Display Board     30565007     3056504301     1       29     Guide Louver     10512111     10512111     1       30     Axile Bush     10542704     10542008     1       31     Electric Box     2011210501     1     1       33     Capacitor CBB61     <	17	Ambient Temperature Sensor	390000453	390000453	1
19     Evaporator Support     24212090     24212090     1       20     Evaporator Assy     0100274301     0100274301     1       21     Wall Mounting Frame     01252015     01252015     1       22     Motor Press Plate     26112160     26112160     1       23     Fan Motor     15012115     15012115     1       24     Pipe Clamp     26112164     26112164     1       25     Drainage hose     0523001406     0523001406     1       26     Step Motor     1521210801     1521210801     1       27     Crank     10582070     10582070     1       28     Display Board     30565007     3056604301     1       29     Guide Louver     10512111     10512111     1       30     Axile Bush     10642704     10542008     1       31     Electric Box     2011210501     2011210501     1       33     Capacitor CBB61     33010002     33010002     1       34     Electric Box Co	18	Connecting Cable	400204056	400204056	0
20     Evaporator Assy     0100274301     0100274301     1       21     Wall Mounting Frame     01252015     01252015     1       22     Motor Press Plate     26112160     26112160     1       23     Fan Motor     15012115     15012115     1       24     Pipe Clamp     26112164     26112164     1       25     Drainage hose     0523001406     0523001406     1       261     Step Motor     1521210801     1521210801     1       27     Crank     10582070     10582070     1       28     Display Board     30565007     3056504301     1       29     Guide Louver     10512111     10512111     1       30     Axile Bush     10542704     10542008     1       31     Electric Box     2011210501     2011210501     1       33     Capacitor CBB61     33010002     33010002     1       34     Electric Box Cover2     20122075     20122075     1       35     Jumper	19	Evaporator Support	24212090	24212090	1
21     Wall Mounting Frame     01252015     01252015     1       22     Motor Press Plate     26112160     26112160     1       23     Fan Motor     15012115     15012115     1       24     Pipe Clamp     26112164     26112164     1       25     Drainage hose     0523001406     0523001406     1       26     Step Motor     1521210801     1521210801     1       27     Crank     10582070     10582070     1       28     Display Board     30565007     3056504301     1       29     Guide Louver     10512111     10512111     1       30     Axile Bush     10542704     10542008     1       31     Electric Box     2011210501     2011210501     1       33     Capacitor CBB61     33010002     33010002     1       34     Electric Box Cover2     20122075     20122075     1       35     Jumper     4202300101     4202300101     1       36     Main Board	20	Evaporator Assy	0100274301	0100274301	1
22     Motor Press Plate     26112160     26112160     1       23     Fan Motor     15012115     15012115     1       24     Pipe Clamp     26112164     26112164     1       25     Drainage hose     0523001406     0523001406     1       26     Step Motor     1521210801     1521210801     1       27     Crank     10582070     10582070     1       28     Display Board     30565007     3056504301     1       29     Guide Louver     10512111     10512111     1       30     Axile Bush     10542704     10542008     1       31     Electric Box     2011210501     2011210501     1       32     Terminal Board     42011233     42011233     1       33     Capacitor CBB61     33010002     33010002     1       34     Electric Box Cover2     20122075     20122075     1       35     Jumper     4202300101     4202300101     1       36     Main Board	21	Wall Mounting Frame	01252015	01252015	1
23     Fan Motor     15012115     15012115     1       24     Pipe Clamp     26112164     26112164     1       25     Drainage hose     00523001406     0523001406     1       26     Step Motor     1521210801     1521210801     1       27     Crank     10582070     10582070     1       28     Display Board     30565007     3056504301     1       29     Guide Louver     10512111     10512111     1       30     Axile Bush     10542704     10542008     1       31     Electric Box     2011210501     2011210501     1       33     Capacitor CBB61     33010002     33010002     1       34     Electric Box Cover2     20122075     20122075     1       35     Jumper     4202300101     4202300101     1       36     Main Board     30138655     30138655     1       37     Shield cover of Electric Box sub-assy     0159207301     0159207301     1       38     Electri	22	Motor Press Plate	26112160	26112160	1
24     Pipe Clamp     26112164     26112164     1       25     Drainage hose     0523001406     0523001406     1       26     Step Motor     1521210801     1521210801     1       27     Crank     10582070     10582070     1       28     Display Board     30565007     3056504301     1       29     Guide Louver     10512111     10512111     1       30     Axile Bush     10542704     10542008     1       31     Electric Box     2011210501     2011210501     1       32     Terminal Board     42011233     42011233     1       33     Capacitor CBB61     33010002     33010002     1       34     Electric Box Cover2     20122075     20122075     1       35     Jumper     4202300101     4202300101     1       36     Main Board     30138655     30138655     1       37     Shield cover of Electric Box sub-assy     0159207301     0159207301     1       38     Ele	23	Fan Motor	15012115	15012115	1
25     Drainage hose     0523001406     0523001406     1       26     Step Motor     1521210801     1521210801     1       27     Crank     10582070     10582070     1       28     Display Board     30565007     3056504301     1       29     Guide Louver     10512111     10512111     1       30     Axile Bush     10542704     10542008     1       31     Electric Box     2011210501     2011210501     1       32     Terminal Board     42011233     42011233     1       33     Capacitor CBB61     33010002     33010002     1       34     Electric Box Cover2     20122075     20122075     1       35     Jumper     4202300101     4202300101     1       36     Main Board     30138655     30138655     1       37     Shield cover of Electric Box sub-assy     0159207301     0159207301     1       38     Electric Box Cover1     20122103     20122103     1       39	24	Pipe Clamp	26112164	26112164	1
26     Step Motor     1521210801     1521210801     1       27     Crank     10582070     10582070     1       28     Display Board     30565007     3056504301     1       29     Guide Louver     10512111     10512111     10512111       30     Axile Bush     10542704     10542008     1       31     Electric Box     2011210501     2011210501     1       32     Terminal Board     42011233     42011233     1       33     Capacitor CBB61     33010002     33010002     1       34     Electric Box Cover2     20122075     20122075     1       35     Jumper     4202300101     4202300101     1       36     Main Board     30138655     30138655     1       37     Shield cover of Electric Box sub-assy     0159207301     0159207301     1       38     Electric Box Cover1     20122103     20122103     1       39     Electric Box Assy     2020209919     2020209923     1	25	Drainage hose	0523001406	0523001406	1
27     Crank     10582070     10582070     1       28     Display Board     30565007     3056504301     1       29     Guide Louver     10512111     10512111     1       30     Axile Bush     10542704     10542008     1       31     Electric Box     2011210501     2011210501     1       32     Terminal Board     42011233     42011233     1       33     Capacitor CBB61     33010002     33010002     1       34     Electric Box Cover2     20122075     20122075     1       35     Jumper     4202300101     4202300101     1       36     Main Board     30138655     30138655     1       37     Shield cover of Electric Box sub-assy     0159207301     0159207301     1       38     Electric Box Cover1     20122103     20122103     1       39     Electric Box Assy     2020209919     2020209923     1	26	Step Motor	1521210801	1521210801	1
28     Display Board     30565007     3056504301     1       29     Guide Louver     10512111     10512111     1       30     Axile Bush     10542704     10542008     1       31     Electric Box     2011210501     2011210501     1       32     Terminal Board     42011233     42011233     1       33     Capacitor CBB61     33010002     33010002     1       34     Electric Box Cover2     20122075     20122075     1       35     Jumper     4202300101     4202300101     1       36     Main Board     30138655     30138655     1       37     Shield cover of Electric Box sub-assy     0159207301     0159207301     1       38     Electric Box Cover1     20122103     20122103     1       39     Electric Box Assy     2020209919     2020209923     1	27	Crank	10582070	10582070	1
29Guide Louver1051211110512111130Axile Bush1054270410542008131Electric Box20112105012011210501132Terminal Board4201123342011233133Capacitor CBB613301000233010002134Electric Box Cover22012207520122075135Jumper42023001014202300101136Main Board3013865530138655137Shield cover of Electric Box sub-assy01592073010159207301138Electric Box Cover12012210320122103139Electric Box Assy202020991920202099231	28	Display Board	30565007	3056504301	1
30     Axile Bush     10542704     10542008     1       31     Electric Box     2011210501     2011210501     1       32     Terminal Board     42011233     42011233     1       33     Capacitor CBB61     33010002     33010002     1       34     Electric Box Cover2     20122075     20122075     1       35     Jumper     4202300101     4202300101     1       36     Main Board     30138655     30138655     1       37     Shield cover of Electric Box sub-assy     0159207301     0159207301     1       38     Electric Box Cover1     20122103     20122103     1       39     Electric Box Assy     2020209919     2020209923     1	29	Guide Louver	10512111	10512111	1
31     Electric Box     2011210501     2011210501     1       32     Terminal Board     42011233     42011233     1       33     Capacitor CBB61     33010002     33010002     1       34     Electric Box Cover2     20122075     20122075     1       35     Jumper     4202300101     4202300101     1       36     Main Board     30138655     30138655     1       37     Shield cover of Electric Box sub-assy     0159207301     0159207301     1       38     Electric Box Cover1     20122103     20122103     1       39     Electric Box Assy     2020209919     2020209923     1	30	Axile Bush	10542704	10542008	1
32     Terminal Board     42011233     42011233     1       33     Capacitor CBB61     33010002     33010002     1       34     Electric Box Cover2     20122075     20122075     1       35     Jumper     4202300101     4202300101     1       36     Main Board     30138655     30138655     1       37     Shield cover of Electric Box sub-assy     0159207301     0159207301     1       38     Electric Box Cover1     20122103     20122103     1       39     Electric Box Assy     2020209919     2020209923     1	31	Electric Box	2011210501	2011210501	1
33     Capacitor CBB61     33010002     33010002     1       34     Electric Box Cover2     20122075     20122075     1       35     Jumper     4202300101     4202300101     1       36     Main Board     30138655     30138655     1       37     Shield cover of Electric Box sub-assy     0159207301     0159207301     1       38     Electric Box Cover1     20122103     20122103     1       39     Electric Box Assy     2020209919     2020209923     1	32	Terminal Board	42011233	42011233	1
34     Electric Box Cover2     20122075     20122075     1       35     Jumper     4202300101     4202300101     1       36     Main Board     30138655     30138655     1       37     Shield cover of Electric Box sub-assy     0159207301     0159207301     1       38     Electric Box Cover1     20122103     20122103     1       39     Electric Box Assy     2020209919     2020209923     1	33	Capacitor CBB61	33010002	33010002	1
35     Jumper     4202300101     4202300101     1       36     Main Board     30138655     30138655     1       37     Shield cover of Electric Box sub-assy     0159207301     0159207301     1       38     Electric Box Cover1     20122103     20122103     1       39     Electric Box Assy     2020209919     2020209923     1	34	Electric Box Cover2	20122075	20122075	1
36     Main Board     30138655     30138655     1       37     Shield cover of Electric Box sub-assy     0159207301     0159207301     1       38     Electric Box Cover1     20122103     20122103     1       39     Electric Box Assy     2020209919     2020209923     1	35	Jumper	4202300101	4202300101	1
37     Shield cover of Electric Box sub-assy     0159207301     0159207301     1       38     Electric Box Cover1     20122103     20122103     1       39     Electric Box Assy     2020209919     2020209923     1	36	Main Board	30138655	30138655	1
38     Electric Box Cover1     20122103     20122103     1       39     Electric Box Assy     2020209919     2020209923     1	37	Shield cover of Electric Box sub-assy	0159207301	0159207301	1
39     Electric Box Assy     2020209919     2020209923     1	38	Electric Box Cover1	20122103	20122103	1
	39	Electric Box Assy	2020209919	2020209923	1

	Description	Part	Code	
No.	Description	GWH(09)MA-K3DNA3B/I	GWH(09)MA-K3DNA2B/I	Qty
	Product Code	CB171N0340	CB181N02700	
1	Receiver Window	20192229	20192229	1
2	Front Panel Assy	20012121S	20012142S	1
3	Filter Sub-Assy	11122081	11122081	2
4	Screw Cover	24252016	24252016	3
5	Front Case	20012120C	20012120C	1
6	Air Louver 2	10512114	10512114	1
7	Air Louver 1	10512113	10512113	1
8	Helicoid tongue	26112162	26112162	1
9	Axile Bush	10542704	10542704	1
10	Rear Case assy	2220210101	2220210101	1
11	Rubber Plug (Water Tray)	76712012	76712012	1
12	Ring of Bearing	26152022	26152022	1
13	O-Gasket sub-assy of Bearing	76512051	76512051	1
14	Cross Flow Fan	10352018	10352018	1
15	Remote Controller	30510049	305100492	1
16	Tube Sensor	390000591	390000591	1
17	Ambient Temperature Sensor	390000453	390000453	1
18	Connecting Cable	400204056	400204056	0
19	Evaporator Support	24212090	24212090	1
20	Evaporator Assy	0100274301	0100274301	1
21	Wall Mounting Frame	01252015	01252015	1
22	Motor Press Plate	26112160	26112160	1
23	Fan Motor	15012115	15012115	1
24	Pipe Clamp	26112164	26112164	1
25	Drainage hose	0523001406	0523001406	1
26	Step Motor	1521210801	1521210801	1
27	Crank	10582070	10582070	1
28	Display Board	30565007	30565056	1
29	Guide Louver	10512111	10512111	1
30	Axile Bush	10542704	10542704	1
31	Electric Box	2011210501	2011210501	1
32	Terminal Board	42011233	42011233	1
33	Capacitor CBB61	33010002	33010002	1
34	Electric Box Cover2	20122075	20122075	1
35	Jumper	4202300101	4202300101	1
36	Main Board	30138655	30138655	1
37	Shield cover of Electric Box sub-assy	0159207301	0159207301	1
38	Electric Box Cover1	20122103	20122103	1
39	Electric Box Assy	2020209919	20202906	1

	Description	Part	Code	
No.	Description	GWH(09)MA-K3DNB8B/I	GWH(09)MA-K3DNC5B/I	Qty
	Product Code	CB174N01900	CB179N01000	
1	Receiver Window	/	22432194	1
2	Front Panel	2001232601	20012586S	1
3	Filter Sub-Assy	11122081	11122081	2
4	Screw Cover	24252016	24252016	3
5	Front Case	20012120C	20012179C	1
6	Air Louver 2	10512114	10512114	1
7	Air Louver 1	10512113	10512113	1
8	Helicoid Tongue	26112162	26112162	1
9	Axile Bush	10542704	10542704	1
10	Rear Case assy	2220210101	2220210101	1
11	Rubber Plug (Water Tray)	76712012	76712012	1
12	Ring of Bearing	26152022	76712012	1
13	O-Gasket sub-assy of Bearing	76512051	76512051	1
14	Cross Flow Fan	10352018	10352018	1
15	Remote Controller	305100492	305100492	1
16	Tube Sensor	390000591	390000591	1
17	Ambient Temperature Sensor	390000453	390000453	1
18	Connecting Cable	400204056	400204056	0
19	Evaporator Support	24212090	24212090	1
20	Evaporator Assy	0100274301	0100274301	1
21	Wall Mounting Frame	01252015	01252015	1
22	Motor Press Plate	26112160	26112160	1
23	Fan Motor	15012115	15012115	1
24	Pipe Clamp	26112164	26112164	1
25	Drainage Hose	0523001406	0523001406	1
26	Step Motor	1521210801	1521210801	1
27	Crank	10582070	10582070	1
28	Display Board	30565007	3056504301	1
29	Guide Louver	10512111	10512111	1
30	Axile Bush	10542008	10542008	1
31	Electric Box	2011210501	2011210501	1
32	Terminal Board	42011233	42011233	1
33	Capacitor CBB61	33010002	33010002	1
34	Electric Box Cover2	20122075	20122075	1
35	Jumper	4202300101	4202300101	1
36	Main Board	30138655	30138655	1
37	Shield Cover of Electric Box Sub-assy	0159207301	0159207301	1
38	Electric Box Cover1	20122103	20122103	1
39	Electric Box Assy	2020209919	2020209923	1



#### Model: GWH(12)MB-K3DNA2B/I GWH(12)MB-K3DNA3B/I GWH(12)MB-K3DNB8B/I GWH(12)MB-K3DNC5B/I

	Description	Part	Code	
No.	Description	GWH(12)MB-K3DNA3B/I	GWH(12)MB-K3DNA2B/I	Qty
	Product Code	CB171N0350	CB181N02800	
1	Receiver Window	22432230	22432230	1
2	Front panel B1	20012122S	20012150S	1
3	Filter Sub-Assy	1112220403	1112220403	1
4	Screw Cover	24252016	24252016	1
5	Front Case Sub-Assy	2001213908	2001213908	1
6	Air Louver 2	10512155	10512155	1
7	Air Louver 1	10512156	10512156	1
8	Helicoid tongue	26112163	26112163	1
9	Left Axile Bush	10512037	10512037	1
10	Rear Case assy	2220210301	2220210301	1
11	Rubber Plug (Water Tray)	76712012	76712012	1
12	Ring of Bearing	26152022	26152022	1
13	O-Gasket sub-assy of Bearing	76512051	76512051	1
14	Cross Flow Fan	10352017	10352017	1
15	Remote Controller	30510049	305100492	1
16	Tube Sensor	390000591	390000591	1
17	Ambient Temperature Sensor	390000453	390000453	1
18	Connecting Cable	400204056	400204056	0
19	Evaporator Support	24212091	24212091	1
20	Evaporator Assy	0100274401	0100274401	1
21	Wall Mounting Frame	01252021	01252021	1
22	Motor Press Plate	26112161	26112161	1
23	Fan Motor	150120874	150120874	1
24	Pipe Clamp	26112164	26112164	1
25	Drainage hose	0523001401	0523001401	1
26	Step Motor	1521210801	1521210801	1
27	Crank	10582070	10582070	1
28	Display Board	30565007	30565056	1
29	Guide Louver	10512157	10512157	1
30	Axile Bush	10542008	10542008	1
31	Electric Box	2011210501	2011210501	1
32	Terminal Board	42011233	42011233	1
33	Capacitor CBB61	33010002	33010002	1
34	Electric Box Cover2	20122075	20122075	1
35	Jumper	4202300105	4202300105	1
36	Main Board	30138655	30138655	1
37	Shield cover of Electric Box sub-assy	0159207301	0159207301	1
38	Electric Box Cover1	20122103	20122103	1
39	Electric Box Assy	2020210001	2020210004	1

	Description	Part		
No.		GWH(12)MB-K3DNB8B/I	GWH(12)MB-K3DNC5B/I	Qty
	Product Code	CB174N02000	CB179N01100	
1	Receiver Window	22432230	22432230	1
2	Front Panel 11	20012204	20012614	1
3	Filter Sub-Assy	1112220403	1112220403	2
4	Screw Cover	24252016	24252016	1
5	Front Case Sub-assy	2001213908	2001213915	1
6	Air Louver 2	10512155	10512155	1
7	Air Louver 1	10512156	10512156	1
8	Helicoid Tongue	26112163	26112163	1
9	Left Axile Bush	10512037	10512037	1
10	Rear Case assy	2220210301	2220210301	1
11	Rubber Plug (Water Tray)	76712012	76712012	1
12	Ring of Bearing	26152022	26152022	1
13	O-Gasket sub-assy of Bearing	76512051	76512051	1
14	Cross Flow Fan	10352017	76512203	1
15	Remote Controller	305100492	305100492	1
16	Tube Sensor	390000591	390000591	1
17	Ambient Temperature Sensor	390000453	390000453	1
18	Connecting Cable	400204056	400204056	0
19	Evaporator Support	24212091	24212091	1
20	Evaporator Assy	0100274401	0100274401	1
21	Wall Mounting Frame	01252021	01252021	1
22	Motor Press Plate	26112161	26112161	1
23	Fan Motor	150120874	150120874	1
24	Pipe Clamp	26112164	26112164	1
25	Drainage Hose	0523001401	0523001401	1
26	Step Motor	1521210801	1521210801	1
27	Crank	10582070	10582070	1
28	Display Board	30565007	3056504301	1
29	Guide Louver	10512157	10512157	1
30	Axile Bush	10542008	10542008	1
31	Electric Box	2011210501	2011210501	1
32	Terminal Board	42011233	42011233	1
33	Capacitor CBB61	33010002	33010002	1
34	Electric Box Cover2	20122075	20122075	1
35	Jumper	4202300105	4202300105	1
36	Main Board	30138655	30138655	1
37	Shield Cover of Electric Box Sub-assy	0159207301	0159207301	1
38	Electric Box Cover1	20122103	20122103	1
39	Electric Box Assy	2020210001	2020210003	1



### Model: GWH(18)MC-K3DNA2B/I GWH(18)MC-K3DNA3B/I GWH(18)MC-K3DNC5B/I

	Description	Part		
No.		GWH(18)MC-K3DNA3B/I	GWH(18)MC-K3DNA2B/I	Qty
	Product Code	CB171N0360	CB181N02900	1
1	Receiver Window	22432173	22432173	1
2	Front Panel Assy	20012260	20012142S	1
3	Filter Sub-Assy	1112208901	1112208901	1
4	Screw Cover	24252016	24252016	1
5	Baffle Plate	26112228	26112228	1
6	Front Case Sub-Assy	20012288	20012288	1
7	Air Louver 2	10512117	10512117	1
8	Air Louver 1	10512116	10512116	1
9	Helicoid tongue	26112238	26112238	1
10	Left Axile Bush	10512037	10512037	1
11	Rear Case assy	12312214	12312214	1
12	Rubber Plug (Water Tray)	76712012	76712012	1
13	Ring of Bearing	26152022	26152022	1
14	O-Gasket sub-assy of Bearing	76512051	76512051	1
15	Cross Flow Fan	10352019	10352019	1
16	Remote Controller	30510049	305100492	1
17	Tube Sensor	390000591	390000591	1
18	Ambient Temperature Sensor	390000453	390000453	1
19	Connecting Cable	400204056	400204056	0
20	Evaporator Support	24212100	24212100	1
21	Evaporator Assy	0100239801	0100239801	1
22	Wall Mounting Frame	01252218	01252218	1
23	Motor Press Plate	26112178	26112178	1
24	Fan Motor	15012116	15012116	1
25	Pipe Clamp	26112164	26112164	1
26	Drainage hose	05230014	05230014	1
27	Step Motor	15012086	15012086	1
28	Crank	10582070	10582070	1
29	Display Board	30565038	30565056	1
30	Guide Louver	10512115	10512115	1
31	Axile Bush	10542008	10542008	1
32	Electric Box	2011210801	2011210801	1
33	Terminal Board	42011233	42011233	1
34	Capacitor CBB61	33010043	33010043	1
35	Electric Box Cover2	20112081	20112081	1
36	Jumper	4202300109	4202300109	1
37	Main Board	30138649	30138649	1
38	Shield cover of Electric Box	01592092	01592092	1
39	Electric Box Cover1	20122128	20122128	1
40	Electric Box Assy	2020210511	20202908	1

No.	Description -	Part Code	Qty
		GWH(18)MC-K3DNC5B/I	
	Product Code	CB179N01200	
1	Receiver Window	22432194	1
2	Front Panel Assy	20012583	1
3	Filter Sub-Assy	1112208901	2
4	Screw Cover	24252016	3
5	Baffle Plate	26112228	1
6	Front Case Sub-assy	20012766	1
7	Air Louver 2	10512117	1
8	Air Louver 1	10512116	1
9	Helicoid Tongue	26112238	1
10	Left Axile Bush	10512037	1
11	Rear Case assy	12312214	1
12	Rubber Plug (Water Tray)	76712012	1
13	Ring of Bearing	26152022	1
14	O-Gasket sub-assy of Bearing	76512051	1
15	Cross Flow Fan	10352019	1
16	Remote Controller	305100492	1
17	Tube Sensor	390000591	1
18	Ambient Temperature Sensor	390000453	1
19	Connecting Cable	400204056	0
20	Evaporator Support	24212100	1
21	Evaporator Assy	0100239801	1
22	Wall Mounting Frame	01252218	1
23	Motor Press Plate	26112178	1
24	Fan Motor	15012116	1
25	Pipe Clamp	26112164	1
26	Drainage Hose	05230014	1
27	Step Motor	15012086	1
28	Crank	10582070	1
29	Display Board	3056504301	1
30	Guide Louver	10512115	1
31	Axile Bush	10542008	1
32	Electric Box	2011210801	1
33	Terminal Board	42011233	1
34	Capacitor CBB61	33010043	1
35	Electric Box Cover2	20112081	1
36	Jumper	4202300109	1
37	Main Board	30138649	1
38	Shield Cover of Electric Box	01592092	1
39	Electric Box Cover1	20122128	1
40	Electric Box Assy	2020210514	1



#### Model: GWH(07)MA-K3DNB8B/I(Cold plasma) GWH(09)MA-K3DNB8B/I(Cold plasma)

		Part	Qtv	
No.	Description	GWH(07)MA-K3DNB8B/I(Cold GWH(09)MA-K3DNB8B/I(Cold		
		plasma)	plasma)	
	Product Code	CB174N02100	CB174N01901	,
1	Receiver Window	/	/	1
2	Front Panel G1	2001232609	2001232609	1
3	Filter Sub-Assy	11122081	11122081	2
4	Screw Cover	24252016	24252016	3
5	Front Case	20012120C	20012120C	1
6	Air Louver 2	10512114	10512114	1
7	Air Louver 1	10512113	10512113	1
8	Helicoid Tongue	26112162	26112162	1
9	Axile Bush	10542704	10542704	1
10	Rear Case assy	2220210101	2220210101	1
11	Rubber Plug (Water Tray)	76712012	76712012	1
12	Ring of Bearing	26152022	26152022	1
13	O-Gasket sub-assy of Bearing	76512051	76512051	1
14	Cross Flow Fan	10352018	10352018	1
15	Remote Controller	305100492	305100492	1
16	Tube Sensor	390000591	390000591	1
17	Ambient Temperature Sensor	390000453	390000453	1
18	Connecting Cable	400204056	400204056	0
19	Evaporator Support	24212090	24212090	1
20	Evaporator Assy	0100274301	0100274301	1
21	Wall Mounting Frame	01252015	01252015	1
22	Motor Press Plate	26112160	26112160	1
23	Fan Motor	15012115	15012115	1
24	Pipe Clamp	26112164	26112164	1
25	Drainage Hose	0523001406	0523001406	1
26	Step Motor	1521210801	1521210801	1
27	Crank	10582070	10582070	1
28	Display Board	30565007	30565007	1
29	Guide Louver	10512111	10512111	1
30	Axile Bush	10542008	10542008	1
31	Electric Box	2011210501	2011210501	1
32	Terminal Board	42011233	42011233	1
33	Capacitor CBB61	33010002	33010002	1
34	Electric Box Cover2	20122075	20122075	1
35	Jumper	4202300101	4202300101	1
36	Main Board	30138656	30138656	1
37	Shield Cover of Electric Box Sub-assy	0159207301	0159207301	1
38	Electric Box Cover1	20122103	20122103	1
39	Electric Box Assy	2020209924	2020209924	1
40	Cold Plasma Generator Sub-assy	11140009	11140009	1
	-	-		

Model: GWH(12)MB-K3DNB8B/I(Cold plasma)



No.	Description -	Part Code	Qty
		GWH(12)MB-K3DNB8B/I(Cold plasma)	
	Product Code	CB174N02001	
1	Receiver Window	1	/
2	Front Panel 11	2001220409	1
3	Filter Sub-Assy	1112220403	2
4	Screw Cover	24252016	1
5	Front Case Sub-assy	2001213908	1
6	Air Louver 2	10512155	1
7	Air Louver 1	10512156	1
8	Helicoid Tongue	26112163	1
9	Left Axile Bush	10512037	1
10	Rear Case assy	2220210301	1
11	Rubber Plug (Water Tray)	76712012	1
12	Ring of Bearing	26152022	1
13	O-Gasket sub-assy of Bearing	76512051	1
14	Cross Flow Fan	10352017	1
15	Remote Controller	305100492	1
16	Tube Sensor	390000591	1
17	Ambient Temperature Sensor	390000453	1
18	Connecting Cable	400204056	0
19	Evaporator Support	24212091	1
20	Evaporator Assy	0100274402	1
21	Wall Mounting Frame	01252021	1
22	Motor Press Plate	26112161	1
23	Fan Motor	150120874	1
24	Pipe Clamp	26112164	1
25	Drainage Hose	0523001401	1
26	Step Motor	1521210801	1
27	Crank	10582070	1
28	Display Board	30565007	1
29	Guide Louver	10512157	1
30	Axile Bush	10542008	1
31	Electric Box	2011210501	1
32	Terminal Board	42011233	1
33	Capacitor CBB61	33010002	1
34	Electric Box Cover2	20122075	1
35	Jumper	4202300105	1
36	Main Board	30138656	1
37	Shield Cover of Electric Box Sub-assy	0159207301	1
38	Electric Box Cover1	20122103	1
39	Electric Box Assy	2020210005	1
40	Cold Plasma Generator Sub-assy	11140009	1

Model: GWH(18)MC-K3DNB8B/I(Cold plasma)



No.     Econymics     GWH(18)MC-K3DNB8B/ICold plasma)     Oiv       Product Code     CB174N02200     /     /       1     Receiver Window     /     /     /       2     Front Panel B8     20012485     1       3     Filter Sub-Asay     21208001     2       4     Strew Cover     24252016     3       5     Baffle Plate     20012288     1       6     Front Case Sub-asay     20012288     1       7     Ai Louver 1     10512117     1       8     Air Louver 1     10512137     1       9     Helicold Tongue     26112238     1       11     Rear Case asay     1312171     1       11     Rear Case asay     12312214     1       11     Rear Case asay     1312171     1       12     Rubber Piug (Water Tray)     7612012     1       13     Ring of Bearing     26152022     1       14     O-Gasket sub-asay of Bearing     76512051     1       15	No.	Description -	Part Code	
Product Code     CB174N02200       1     Receiver Window     /     /       2     Front Panel B8     20012485     1       3     Filter Sub-Assy     11122089011     2       4     Screw Cover     24282016     3       5     Baffe Plate     26112228     1       6     Front Case Sub-assy     2001288     1       7     Air Lower 2     10512117     1       8     Air Lower 1     10512137     1       9     Helicoid Tongue     26112238     1       10     Left Avia Bush     10512037     1       11     Rear Case assy     12312214     1       11     Ruber Plug (Water Tray)     76712012     1       14     O-Gasket sub-assy of Bearing     76512051     1       14     O-Gasket sub-assy of Bearing     305100492     1       17     Tube Sensor     390000591     1       18     Ambient Temperature Sensor     390000591     1       19     Connecting Cable     4002			GWH(18)MC-K3DNB8B/I(Cold plasma)	Qty
1     Receiver Window     /       2     Front Panel B8     20012485     1       3     Filter Sub-Assy     1112208901     2       4     Scrow Cover     24252016     3       5     Baffle Plate     2012286     1       6     Front Case Sub-assy     20012286     1       7     Air Louver 2     10512117     1       8     Air Louver 1     10512116     1       9     Helicoid Tongue     26112238     1       10     Left Axile Bush     10512117     1       11     Rear Case assy     12312214     1       11     Redrose assy of Baaring     76712012     1       11     Ring of Baaring     26152022     1       14     O-Gaskat sub-assy of Baaring     76512051     1       15     Cross Flow Fan     10352019     1       16     Remote Controller     390000453     1       17     Tube Sensor     3930000453     1       18     Ambient Temperature Sensor		Product Code	CB174N02200	
2     Front Panel B8     20012485     1       3     Filter Sub-Assy     1112208901     2       4     Screw Cover     24252016     3       5     Baffle Plate     26112228     1       6     Front Case Sub-assy     20012288     1       7     Air Louver 2     10512116     1       8     Air Louver 1     10512116     1       9     Helicoid Tongue     26112238     1       10     Left Axile Bush     10512037     1       11     Ren Case assy     12312214     1       11     Rear Case assy     26152022     1       11     Ocasket sub-assy of Bearing     26152022     1       14     Ocasket sub-assy of Bearing     305104492     1       15     Cross Flow Fan     10352019     1       16     Remote Controller     390000453     1       17     Tube Sensor     390000453     1       18     Ambient Temperature Sensor     390000453     1       19     <	1	Receiver Window	1	/
3Filter Sub-Assy111220890124Screw Cover2425201635Baffle Plato2611222816Front Case Sub-assy2001228817Air Louver 21051211718Air Louver 1051211619Helicoid Tongue26112238110Left Axile Bush10512037111Rear Case assy12312214112Rubber Plug (Water Tray)76712012114O-Gaset sub-assy of Bearing76512051115Cross Flow Fan10352019116Remote Controller390000591117Tube Sensor390000453118Ambient Temperature Sensor390000453119Connecting Cable400224068021Evaporator Support24212100124Fan Motor15012116125Pipe Clamp26112178126Drainage Hose0125218127Stap Motor15012116128Crank015512115129Display Board3006043120Display Board3066038121Evaporator Assy010239002123Motor15012116124Fan Motor15012166125Pipe Clamp3016643126Crank015512153128Mot	2	Front Panel B8	20012485	1
4     Screw Cover     2452016     3       5     Baffe Plate     26112228     1       6     Front Case Sub-assy     20012288     1       7     Air Louver 2     10512117     1       8     Air Louver 1     10512116     1       9     Helicoid Tongue     26112238     1       10     Left Axile Bush     10512037     1       11     Rar Case assy     22312214     1       12     Rubber Plug (Water Tray)     76712012     1       13     Ring of Bearing     26152022     1       14     O-Gasket sub-assy of Bearing     76512051     1       15     Cross Flow Fan     10052019     1       16     Remote Controller     306100492     1       17     Tube Sensor     3090000453     1       18     Ambient Temperature Sensor     390000453     1       19     Connecting Cable     4002404056     0       20     Evaporator Xuport     24212100     1       21	3	Filter Sub-Assy	1112208901	2
5     Baffle Plate     26112228     1       6     Front Case Sub-asy     20012288     1       7     Air Louver 1     10512117     1       8     Air Louver 1     10612116     1       9     Helicol Tongue     26112238     1       10     Left Axile Bush     10512037     1       11     Rear Case asy     2312214     1       12     Rubber Plug (Water Tray)     76712012     1       13     Ring of Bearing     26152022     1       14     O-Gasket sub-asy of Bearing     76512051     1       15     Cross Flow Fan     103552019     1       16     Remote Controller     306100492     1       17     Tube Sensor     390000591     1       18     Ambient Temperature Sensor     390000453     1       19     Connecting Cable     400204056     0       20     Evaporator Support     24212100     1       21     Wall Mounting Frame     1052218     1       22	4	Screw Cover	24252016	3
6     Front Case Sub-assy     20012288     1       7     Àir Louver 1     10512117     1       8     Àir Louver 1     10512116     1       9     Helicoid Tongue     26112238     1       10     Left Axile Bush     10512037     1       11     Rear Case assy     12312214     1       12     Rubber Plug (Water Tray)     76712012     1       13     Ring of Bearing     26152022     1       14     O-Gasket sub-assy of Bearing     76512051     1       15     Cross Flow Fan     10352019     1       16     Remote Controller     306100492     1       17     Tube Sensor     399000453     1       18     Ambient Temperature Sensor     399000453     1       19     Conneeting Cable     400204056     0       20     Evaporator Assy     0100239802     1       21     Evaporator Assy     0100239802     1       22     Wall Mounting Frame     01525218     1 <t< td=""><td>5</td><td>Baffle Plate</td><td>26112228</td><td>1</td></t<>	5	Baffle Plate	26112228	1
7     Àir Louver 2     10612117     1       8     Àir Louver 1     10512116     1       9     Helicoid Tongue     26112238     1       10     Left Axile Bush     10512037     1       11     Rear Case assy     12312214     1       12     Rubber Plug (Water Tray)     76712012     1       13     Ring of Bearing     26152022     1       14     O-Gasket sub-assy of Bearing     76512051     1       15     Cross Flow Fan     10052019     1       16     Remote Controller     305100492     1       17     Tube Sensor     390000453     1       18     Anbient Temperature Sensor     390000453     1       19     Connecting Cable     400204056     0       20     Evaporator Assy     0100239802     1       21     Evaporator Support     24212100     1       23     Motor Tenses Plate     26112176     1       24     Fan Motor     15012086     1       25	6	Front Case Sub-assy	20012288	1
8     Air Louver 1     10512116     1       9     Helicoid Tongue     28112238     1       10     Left Axile Bush     10512037     1       11     Rear Case assy     12312214     1       12     Rubber Plug (Water Tray)     76712012     1       13     Ring of Bearing     28152022     1       14     O-Gasket sub-assy of Bearing     76512051     1       15     Cross Flow Fan     10352019     1       16     Remote Controller     305100492     1       17     Tube Sensor     390000551     1       18     Arnbiert Temperature Sensor     390000453     1       19     Connecting Cable     400204066     0       20     Evaporator Support     24212100     1       21     Evaporator Support     2010239802     1       22     Wall Mounting Frame     01252216     1       23     Motor Press Plate     26112178     1       24     Fan Motor     101021061     1	7	Air Louver 2	10512117	1
9     Helicoid Tongue     26112238     1       10     Left Axile Bush     10512037     1       11     Raar Case assy     12312214     1       12     Rubber Plug (Water Tray)     76712012     1       13     Ring of Bearing     26152022     1       14     O-Gasket sub-assy of Bearing     76512051     1       15     Cross Flow Fan     10352019     1       16     Remote Controller     390000591     1       17     Tube Sensor     390000453     1       18     Ambient Temperature Sensor     390000453     1       19     Connecting Cable     400204056     0       20     Evaporator Support     24212100     1       21     Evaporator Sasy     0100239802     1       22     Wall Mounting Frame     01252218     1       23     Motor Press Plate     26112178     1       24     Fan Motor     16012116     1       25     Pipe Clamp     26112178     1       2	8	Air Louver 1	10512116	1
10     Left Axile Bush     10512037     1       11     Rear Case asy     12312214     1       12     Rubber Plug (Water Tray)     76712012     1       13     Ring of Bearing     26152022     1       14     O-Gasket sub-assy of Bearing     76512051     1       15     Cross Flow Fan     10352019     1       16     Remote Controller     305100492     1       17     Tube Sensor     390000453     1       18     Ambient Temperature Sensor     390000453     1       19     Connecting Cable     400204056     0       20     Evaporator Support     24212100     1       21     Evaporator Support     24212100     1       22     Wall Mounting Frame     01252218     1       23     Motor Press Plate     26112178     1       24     Fan Motor     15012086     1       25     Pipe Clamp     26112178     1       26     Drainage Hose     055230014     1       2	9	Helicoid Tongue	26112238	1
11     Rear Case assy     12312214     1       12     Rubober Plug (Water Tray)     76712012     1       13     Ring of Bearing     26152022     1       14     O-Gasket sub-assy of Bearing     76512012     1       15     Cross Flow Fan     10352019     1       16     Remote Controller     305100492     1       17     Tube Sensor     390000591     1       18     Ambient Temperature Sensor     390000453     1       19     Connecting Cable     400204056     0       20     Evaporator Support     24212100     1       21     Evaporator Support     24212100     1       22     Wall Mounting Frame     01252218     1       23     Motor Press Plate     26112178     1       24     Fan Motor     15012116     1       25     Pipe Clamp     26112174     1       26     Drainage Hose     05230014     1       27     Step Motor     15012086     1       28 <td>10</td> <td>Left Axile Bush</td> <td>10512037</td> <td>1</td>	10	Left Axile Bush	10512037	1
12     Rubber Plug (Water Tray)     76712012     1       13     Ring of Bearing     26152022     1       14     O-Gasket sub-assy of Bearing     76512051     1       15     Cross Flow Fan     10352019     1       16     Remote Controller     305100492     1       17     Tube Sensor     390000591     1       18     Ambient Temperature Sensor     390000453     1       19     Connecting Cable     400204056     0       20     Evaporator Support     24212100     1       21     Evaporator Assy     0100239802     1       22     Wall Mounting Frame     01252218     1       23     Motor Press Plate     26112176     1       24     Fan Motor     15012116     1       25     Pipe Clamp     26112176     1       26     Drainage Hose     05230014     1       27     Step Motor     15012086     1       28     Crank     10582070     1       29	11	Rear Case assy	12312214	1
13     Ring of Bearing     26152022     1       14     O-Gasket sub-assy of Bearing     76512051     1       15     Cross Flow Fan     10352019     1       16     Remote Controller     305100492     1       17     Tube Sensor     390000591     1       18     Ambient Temperature Sensor     390000453     1       19     Connecting Cable     400204056     0       20     Evaporator Support     24212100     1       21     Evaporator Support     24212100     1       22     Wall Mounting Frame     01052218     1       23     Motor Press Plate     26112176     1       24     Fan Motor     15012116     1       25     Pipe Clamp     26112176     1       26     Drainage Hose     05230014     1       27     Step Motor     10582070     1       28     Crank     10582070     1       30     Guide Louver     10512086     1       31     Axile B	12	Rubber Plug (Water Tray)	76712012	1
14     O-Gasket sub-assy of Bearing     76512051     1       15     Cross Flow Fan     10352019     1       16     Remote Controller     305100492     1       17     Tube Sensor     390000591     1       18     Ambient Temperature Sensor     390000453     1       19     Connecting Cable     400204056     0       20     Evaporator Support     24212100     1       21     Evaporator Assy     0100239802     1       22     Wall Mounting Frame     0125218     1       23     Motor Press Plate     26112178     1       24     Fan Motor     1501216     1       25     Pipe Clamp     26112164     1       26     Drainage Hose     05230014     1       27     Step Motor     10582070     1       28     Crank     10582070     1       30     Guide Lower     1051215     1       31     Axile Bush     10542008     1       32     Electric Box	13	Ring of Bearing	26152022	1
15     Cross Flow Fan     10352019     1       16     Remote Controller     306100492     1       17     Tube Sensor     390000591     1       18     Ambient Temperature Sensor     390000453     1       19     Connecting Cable     400204056     0       20     Evaporator Support     24212100     1       21     Evaporator Assy     0100239802     1       22     Wall Mounting Frame     01252218     1       23     Motor Press Plate     26112178     1       24     Fan Motor     15012116     1       25     Pipe Clamp     26112164     1       26     Drainage Hose     05230014     1       27     Step Motor     15012086     1       28     Crank     10582070     1       29     Display Board     30565038     1       30     Guide Louver     10512086     1       31     Axile Bush     10542008     1       32     Electric Box <t< td=""><td>14</td><td>O-Gasket sub-assy of Bearing</td><td>76512051</td><td>1</td></t<>	14	O-Gasket sub-assy of Bearing	76512051	1
16     Remote Controller     305100492     1       17     Tube Sensor     390000591     1       18     Ambient Temperature Sensor     390000453     1       19     Connecting Cable     400204056     0       20     Evaporator Support     24212100     1       21     Evaporator Assy     0100239802     1       22     Wall Mounting Frame     01252218     1       23     Motor Press Plate     26112178     1       24     Fan Motor     15012116     1       25     Pipe Clamp     26112178     1       26     Drainage Hose     05230014     1       27     Step Motor     15012086     1       28     Crank     10582070     1       30     Guide Louver     105612086     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61	15	Cross Flow Fan	10352019	1
17     Tube Sensor     390000591     1       18     Ambient Temperature Sensor     390000453     1       19     Connecting Cable     400204056     0       20     Evaporator Support     24212100     1       21     Evaporator Assy     0100239802     1       22     Wall Mounting Frame     01252218     1       23     Motor Press Plate     26112178     1       24     Fan Motor     15012116     1       25     Pipe Clamp     26112184     1       26     Drainage Hose     05230014     1       27     Step Motor     15012086     1       28     Crank     10582070     1       29     Display Board     30565038     1       30     Guide Louver     1051215     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61	16	Remote Controller	305100492	1
18     Ambient Temperature Sensor     390000453     1       19     Connecting Cable     400204056     0       20     Evaporator Support     24212100     1       21     Evaporator Assy     0100239802     1       22     Wall Mounting Frame     01252218     1       23     Motor Press Plate     26112178     1       24     Fan Motor     15012116     1       25     Pipe Clamp     26112164     1       26     Drainage Hose     05230014     1       27     Step Motor     15012086     1       28     Crank     10582070     1       29     Display Board     30565038     1       30     Guide Louver     10512105     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CB861     33010043     1       35     Electric Box Cover2	17	Tube Sensor	390000591	1
19     Connecting Cable     400204056     0       20     Evaporator Support     24212100     1       21     Evaporator Assy     0100239802     1       22     Wall Mounting Frame     01252218     1       23     Motor Press Plate     26112178     1       24     Fan Motor     15012116     1       25     Pipe Clamp     26112164     1       26     Drainage Hose     05230014     1       27     Step Motor     15012086     1       28     Crank     10582070     1       29     Display Board     30565038     1       30     Guide Louver     10512115     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109 <td>18</td> <td>Ambient Temperature Sensor</td> <td>390000453</td> <td>1</td>	18	Ambient Temperature Sensor	390000453	1
20     Evaporator Support     24212100     1       21     Evaporator Assy     0100239802     1       22     Wall Mounting Frame     01252218     1       23     Motor Press Plate     26112178     1       24     Fan Motor     15012116     1       25     Pipe Clamp     26112164     1       26     Drainage Hose     05230014     1       27     Step Motor     15012086     1       28     Crank     10582070     1       29     Display Board     30565038     1       30     Guide Louver     10512115     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650	19	Connecting Cable	400204056	0
21     Evaporator Assy     0100239802     1       22     Wall Mounting Frame     01252218     1       23     Motor Press Plate     26112178     1       24     Fan Motor     15012116     1       25     Pipe Clamp     26112178     1       26     Drainage Hose     05230014     1       27     Step Motor     15012086     1       28     Crank     10582070     1       29     Display Board     30565038     1       30     Guide Louver     10512115     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091	20	Evaporator Support	24212100	1
22     Wall Mounting Frame     01252218     1       23     Motor Press Plate     26112178     1       24     Fan Motor     15012116     1       25     Pipe Clamp     26112164     1       26     Drainage Hose     05230014     1       27     Step Motor     15012086     1       28     Crank     10582070     1       29     Display Board     30565038     1       30     Guide Louver     10512115     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Assy     20202105	21	Evaporator Assy	0100239802	1
23     Motor Press Plate     26112178     1       24     Fan Motor     15012116     1       25     Pipe Clamp     26112164     1       26     Drainage Hose     05230014     1       27     Step Motor     15012086     1       28     Crank     10582070     1       29     Display Board     30565038     1       30     Guide Louver     10512115     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Assy     2020210515     1       40     Electric Box Assy     20202105	22	Wall Mounting Frame	01252218	1
24     Fan Motor     15012116     1       25     Pipe Clamp     26112164     1       26     Drainage Hose     05230014     1       27     Step Motor     15012086     1       28     Crank     10582070     1       29     Display Board     30565038     1       30     Guide Louver     10512115     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Assy     20122128     1       40     Electric Box Assy     2020210515     1	23	Motor Press Plate	26112178	1
25     Pipe Clamp     26112164     1       26     Drainage Hose     05230014     1       27     Step Motor     15012086     1       28     Crank     10582070     1       29     Display Board     30565038     1       30     Guide Louver     10512115     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Assy     2020210515     1       40     Electric Box Assy     2020210515     1	24	Fan Motor	15012116	1
26     Drainage Hose     05230014     1       27     Step Motor     15012086     1       28     Crank     10582070     1       29     Display Board     30565038     1       30     Guide Louver     10512115     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Cover1     20122128     1       40     Electric Box Assy     2020210515     1       41     Cold Plasma Generator Sub-assy     11140009     1	25	Pipe Clamp	26112164	1
27     Step Motor     15012086     1       28     Crank     10582070     1       29     Display Board     30565038     1       30     Guide Louver     10512115     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Cover1     20122128     1       40     Electric Box Assy     2020210515     1       41     Cold Plasma Generator Sub-assy     11140009     1	26	Drainage Hose	05230014	1
28     Crank     10582070     1       29     Display Board     30565038     1       30     Guide Louver     10512115     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Cover1     20122128     1       40     Electric Box Assy     2020210515     1	27	Step Motor	15012086	1
29     Display Board     30565038     1       30     Guide Louver     10512115     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Assy     20122128     1       40     Electric Box Assy     11140009     1	28	Crank	10582070	1
30     Guide Louver     10512115     1       31     Axile Bush     10542008     1       32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Assy     20122128     1       40     Electric Box Assy     2020210515     1       41     Cold Plasma Generator Sub-assy     11140009     1	29	Display Board	30565038	1
31   Axile Bush   10542008   1     32   Electric Box   2011210801   1     33   Terminal Board   42011233   1     34   Capacitor CBB61   33010043   1     35   Electric Box Cover2   20112081   1     36   Jumper   4202300109   1     37   Main Board   30138650   1     38   Lower Shield of Electric Box   01592091   1     39   Electric Box Assy   20122128   1     40   Electric Box Assy   1140009   1	30	Guide Louver	10512115	1
32     Electric Box     2011210801     1       33     Terminal Board     42011233     1       34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Assy     20122128     1       40     Electric Box Assy     1     1       41     Cold Plasma Generator Sub-assy     11140009     1	31	Axile Bush	10542008	1
33     Terminal Board     42011233     1       34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Cover1     20122128     1       40     Electric Box Assy     2020210515     1       41     Cold Plasma Generator Sub-assy     11140009     1	32	Electric Box	2011210801	1
34     Capacitor CBB61     33010043     1       35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Cover1     20122128     1       40     Electric Box Assy     2020210515     1       41     Cold Plasma Generator Sub-assy     11140009     1	33	Terminal Board	42011233	1
35     Electric Box Cover2     20112081     1       36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Cover1     20122128     1       40     Electric Box Assy     2020210515     1       41     Cold Plasma Generator Sub-assy     11140009     1	34	Capacitor CBB61	33010043	1
36     Jumper     4202300109     1       37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Cover1     20122128     1       40     Electric Box Assy     2020210515     1       41     Cold Plasma Generator Sub-assy     11140009     1	35	Electric Box Cover2	20112081	1
37     Main Board     30138650     1       38     Lower Shield of Electric Box     01592091     1       39     Electric Box Cover1     20122128     1       40     Electric Box Assy     2020210515     1       41     Cold Plasma Generator Sub-assy     11140009     1	36	Jumper	4202300109	1
38     Lower Shield of Electric Box     01592091     1       39     Electric Box Cover1     20122128     1       40     Electric Box Assy     2020210515     1       41     Cold Plasma Generator Sub-assy     11140009     1	37	Main Board	30138650	1
39     Electric Box Cover1     20122128     1       40     Electric Box Assy     2020210515     1       41     Cold Plasma Generator Sub-assy     11140009     1	38	Lower Shield of Electric Box	01592091	1
40     Electric Box Assy     2020210515     1       41     Cold Plasma Generator Sub-assy     11140009     1	39	Electric Box Cover1	20122128	1
41 Cold Plasma Generator Sub-assy 11140009 1	40	Electric Box Assy	2020210515	1
	41	Cold Plasma Generator Sub-assy	11140009	1

# 9. Troubleshooting

# 9.1 Malfunction Display of Indoor Unit

#### 1. Malfunction display requirement

When there are several malfunctions, they will be displayed circularly.

#### 2. Malfunction display method

(1) Hardware malfunction: immediate display; refer to "malfunction display table";

(2) Operation state: immediate display; refer to "malfunction display table";

(3) Other malfunctions: it is displayed after the compressor stops for 200s; refer to "malfunction display table".

#### Note: when the compressor is restarted, the malfunction display delay time (200s) is cleared.

(4) When the unit is under limit frequency or frequency drop state, the display can be controlled via remote controller.

#### 3. Malfunction display control

The indicator lamp and dual 8 nixie tube displays shall be synchronized. That is when the indicator lamp blinks, the dual 8 nixie tube displays the corresponding malfunction code.

#### 4. Display control via remote controller

Enter display control: press light button successively for 4 times within 3s to display the corresponding malfunction code; Exit display control: pressing light button successively for 4 times within 3s or after display is shown for 5min, the display will terminate.

#### Display under test state

Dual 8 nixie tube display: minimum cooling (heating)-P0; middle cooling (heating)-P3 Nominal cooling (heating) –P1; maximum cooling (heating) –P2; Corresponding indicator lamp will be on for 0.3s and off for 0.3s

#### Error Code List:

	Duel 9 Nivie	Indicator Display		
Malfunction Name		Operation	Cooling	Heating
	Tube	indicator	indicator	indicator
Malfunction of jumper cap	C5	blink 15 times		
No feedback from indoor unit's motor	H6	blink 11 times		
Circuit malfunction of zero crossing detection	U8	blink 17 times		
Indoor ambient temperature sensor is open/short-circuited	F1		blink once	
Indoor evaporator temperature sensor is open/short-circuited	F2		blink twice	
Liquid value temperature concer is open/abort circuited	hE		blink	
	D5		19 times	
Gas value temperature sensor is open/short-circuited	b7		blink	
Gas valve temperature sensor is open/short-circuited			22 times	
module temperature sensor is open/short-circuited	D7			blink
				18 times
Outdoor ambient temperature sensor is open/short-circuited	F3		blink	
			3 times	
Outdoor condenser tube temperature sensor is open/short-circuited	F4		blink	
			4 times	
Outdoor discharge temperature sensor is open/short-circuited	E5		blink	
	10		5 times	
Communication malfunction between indoor and outdoor units	E6	blink 6 times		
Malfunction of phase current circuit detection for compressor	1			blink
				12 times

Module temperature protection	P8			blink 19 times
Charging malfunction of capacitor	PU			blink 17 times
High pressure protection of system	E1	blink once		
Overload protection of compressor	H3			blink 3 times
Wrong connection for communication wire or malfunction of expansion valve (free match)	dn	1	1	1
Wrong connection for communication wire or malfunction detection status of expansion valve (free match)	dd	1	1	1
Mode shock	E7	blink 7 times		
Freon recovery mode	Fo	blink once	blink once	
Defrosting and oil return under heating	H1			blink once
Failure start-up of compressor	Lc			blink 11 times
Discharge high-temperature protection of compressor	E4	blink 4 times		
Overload protection	E8	blink 8 times		
Overcurrent protection of the complete unit	E5	blink 5 times		
Overcurrent protection of phase current	P5			blink 15 times
Desynchronizing of compressor	H7			blink 7 times
Loss phase/inverse phase protection for compressor	Ld	1	1	1
Module current protection (IPM protection)	H5			blink 5 times
Low voltage protection of DC bus bar	PL			blink 21 times
High voltage protection of DC bus bar	PH		blink 11 times	
PFC protection	HC			blink 6 times
Limit/decrease frequency due to current protection of the complete	ГО		blink	
unit	FØ		8 times	
Limit/decrease frequency due to module current protection (phase current)	En	1	1	1
Limit/decrease frequency due to discharge	F9		blink 9 times	
Limit/decrease frequency due to freeze protection	FH		blink twice	blink twice
	F0		blink	
Limit/decrease frequency due to overload	FO		6 times	
Limit/decrease frequency due to module temperature protection	EU		blink 6 times	blink 6 times
Oil return under cooling	F7		blink 7 times	
Cold air prevention protection	E9	blink 9 times		
Freeze protection	E2	blink twice		

Note: Please refer to service manual for the troubleshooting procedure for outdoor unit.

# 9.2 How to Check Simply the Main Part 9.2.1 F1/F2 malfunction



### 9.2.2 H6 malfunction

Possible causes:1.Fan motor is locked; 2.The feedback terminal of PG motor is not connected tightly; 3.The control terminal of PG motor is not connected tightly; 4.Motor is damaged; 5.Malfunction of the rotation speed detection circuit of the mainboard.See the flow chart below:



# 9.2.3 C5 malfunction

Possible causes:1.There is no jumper cap on the controller;2.Jumper cap is not inserted properly and tightly;3.Jumper cap is damaged;4. Controller is damaged.See the flow chart below:



### 9.2.4 U8 malfunction

Possible causes; 1.The controller diagnoses incorrectly due to instant energization after de-energized while the capacitor discharges slowly; 2.Malfunction of the zero-cross detection circuit of the mainboard. See the flow chart below:



# 9.2.5 E6 malfunction

#### Inspection

- Check if connection wire between indoor and outdoor units and wire inside the unit are connected well.
- Check if mainboard of indoor or outdoor unit is damaged

### Flowchart





# 10. Removal Procedure

Warning Be sure to wait for a minimum of 10 minutes after turning off all power supplies before disassembly.



Step	Pro	cedure
2	Bend the horizontal louver slightly to remove it.	horizon-
3.R	emove front panel	
1	Slide the rotor shaft out of the groove. Remove the front panel.	rotor shaft
		front panel
4.R	emove electric box cover 2	
1	Remove the screws fixing the elec- tric box cover 2.	Screw

Step	Pro	cedure
2	Remove the electric box cover2.	electric box cover
5.Ren	nove front case	
1	Open the screw cap on the front case. Remove the screws fixing the front case.	Screws
2	Loosen the left, middle and right clasps.	clasps
3	Remove the front case.	front ight case i a c

Step	Pr	ocedure
6.Re	move vertical louver	
1	Loosen the clasps connecting vertical louver with bottom case.	clasps
2	Remove the vertical louver.	vertical louver
7.Re	move electric box	
1	Disconnect the indoor pipe tempera- ture sensor.	Heat exchanger thermistor
2	Remove the screw of the electric box.	Screw
3	Remove the screws at the joint of ground wire and evaporator.	Screws Ground Wire

#### Removal Procedure

Step	Proc	cedure
4	Remove the clasp connecting elec- tric box cover and electric box. Re- move electric box cover.	Clasp
5	Disconnect the connecting wire of the motor.	fan motor signal wire
6	Disconnect the connecting wire of the step motor.	connector of step motor
7	Remove the screw fixing the display. Remove the display.	Screw
8	Remove the electric box.	electric box

Step		Procedure
8.Remove pipe connecting clamp		
1	Remove the screw fixing the pipe connecting clamp.	Pipe Clamp Auxiliary Piping screw
2	Remove the pipe connecting clamp.	Pipe Clamp
9.Rem	ove the evaporator	
1	Remove the 3 screws at the joint of the evaporator and bottom case.	
2	Adjust the pipe of evaporator.	Auxiliary Piping

Step	Proce	dure
3	Remove the evaporator.	Heat Exchanger
10.R	emove cross flow blade and motor	
1	Remove the screws fixing the step motor. Remove the step motor.	Step Motor
2	Remove the screws fixing the press plate of the motor. Remove the motor.	Motor Press Plate
3	Remove cross flow blade and motor.	Cross Flow Fan Fan Motor

Step	Pr	ocedure
4	Remove ring of bearing.	O-Gasket sub-assy of Bearing Bearing
5	Remove the screws at the joint of cross flow blade and motor. Remove the motor.	Cross Flow Fan Fan Motor

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#### GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Add: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070 Tel: (+86-756) 8522218 Fax: (+86-756) 8669426 E-mail: gree@gree.com.cn www.gree.com

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