GREE
Change for life

Service Manual

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1. Summary

Indoor Unit:

GWH24YE-S6DBA1A/I
GWH18YE-S6DBA1B/I
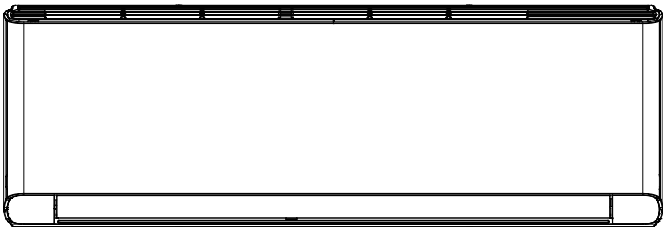
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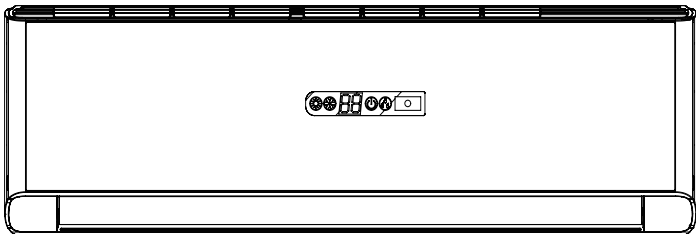
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GWH18YE-S6DBA2A/I (CB466N00403)
GWH24YE-S6DBA2A/I (CB466N00300)
GWH18YE-S6DBA2B/I(CB466N02700/CB466N02701/CB466N02702)
GWH24YE-S6DBA2A/I(CB466N00308)
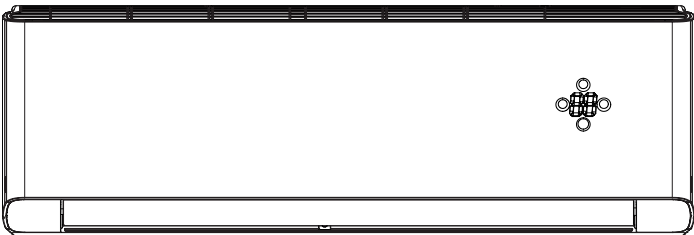
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GWH18ACE-S6DBA1A/O
GWH18YE-S6DBA2A/O
GWH24YE-S6DBA2A/O
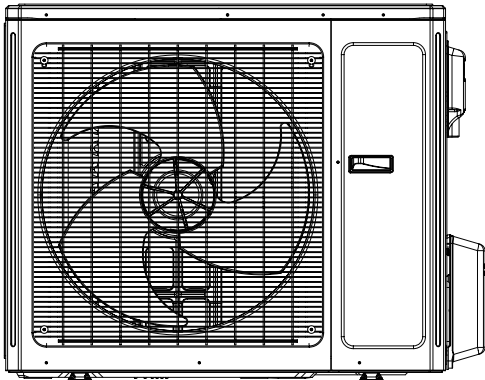
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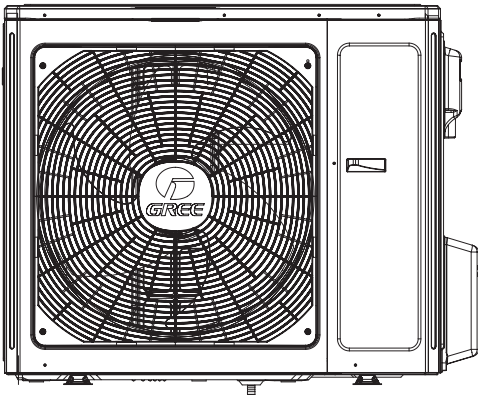
YAG1FB3(WiFi)

YAG1FB2(WiFi)

Remote Controller:

Models List:

No	Model	Product code	Indoor model	Indoor product code	Outdoor model	Outdoor product code	Remote Controller
1	GWH18YE-S6DBA1B	CB437003900	GWH18YE-S6DBA1B/I	CB437N03900	GWH18ACE-S6DBA1A/O	CB497W11000	YAG1FB3 (WiFi)
2	GWH18YE-S6DBA2B	CB466002700	GWH18YE-S6DBA2B/I	CB466N02700			
3		CB466002701		CB466N02701			
4		CB466002702		CB466N02702			
5		CB466002703		CB466N02703			
6	GWH24YE-S6DBA1A	CB437002802	GWH24YE-S6DBA1A/I	CB437N02802	GWH24YE-S6DBA2A/O	CB466W00301	
7	GWH24YE-S6DBA2A	CB466000308	GWH24YE-S6DBA2A/I	CB466N00308			
8	GWH18YE-S6DBA2A	CB466000400	GWH18YE-S6DBA2A/I	CB466N00400	GWH18YE-S6DBA2A/O	CB466W00400	YAG1FB2 (WiFi)
9		CB466000403		CB466N00403			
10		CB466000404		CB466N00404			
11	GWH24YE-S6DBA2A	CB466000300	GWH24YE-S6DBA2A/I	CB466N00300	GWH24YE-S6DBA2A/O	CB466W00300	

● ● ● ● ● ● Technical Information

2. Specifications
2.1 Specification Sheet

Model			GWH18YE-S6DBA2A	GWH24YE-S6DBA2A
Product Code			CB466000400/CB466000403/CB466000404	CB466000300
Power Supply	Rated Voltage	V~	220-240	220-240
	Rated Frequency	Hz	50/60	50/60
	Phases		1	1
Power Supply Mode			Outdoor	Outdoor
Cooling Capacity		W	5300	7034
Heating Capacity		W	5570	7034
Cooling Power Input		W	1320	1850
Heating Power Input		W	1320	1750
Cooling Power Current		A	5.9	11
Heating Power Current		A	5.9	10.76
Rated Input		W	3300	3800
Rated Current		A	13	16.4
Rated Heating Current		A	18	16.4
Air Flow Volume(SH/H/MH/M/ML/L/SL)		m^3/h	1200/1150/1050/950/850/780/600	1200/1050/950/900/850/750/700
Dehumidifying Volume		L/h	1.8	2
EER		W/W	4.02	3.8
COP		W/W	4.22	4
SEER		W/W	6.6	6.5
HSPF		W/W	/	/
SCOP(Average/Warmer/Colder)			4.4/5.1/3.4	4.1/5.3/3.5
Application Area		m^2	23-34	32-50
Indoor Unit	Model of indoor unit		GWH18YE-S6DBA2A/I	GWH24YE-S6DBA2A/I
	Indoor Unit Product Code		CB466N00400/CB466N00403/CB466N00404	CB466N00300
	Fan Type		Cross-flow	Cross-flow
	Diameter Length(DXL)	mm	Φ108X830	Φ108X830
	Fan Motor Cooling Speed	r/min	1200/1150/1100/1000/900/850/800	1250/1100/1000/950/900/850/800
	Fan Motor Heating Speed	r/min	1250/1150/1100/1000/900/850/800	1400/1250/1100/1050/1000/900/850
	Output of Fan Motor	W	60	70
	Fan Motor RLA	A	0.24	0.24
	Fan Motor Capacitor	μF	/	/
	Input of Heater	W	/	/
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Row-fin Gap	mm	2-1.4	2-1.5
	Coil Length (LXDXW)	mm	845X25.4X342.9	845X25.4X381
	Swing Motor Model		MP35CP/MP24HF	MP35CJ/MP24HF
	Output of Swing Motor	W	2.5/1.5	2.5/1.5
	Fuse	A	3.15	3.15
	Sound Pressure Level (SH/H/MH/M/ML/L/SL)	dB (A)	48/45/43/40/37/35/33	50/46/43/41/39/37/35
	Sound Power Level (SH/H/MH/M/ML/L/SL)	dB (A)	60/57/55/52/49/47/45	64/60/57/55/53/51/49
	Dimension (WXHXD)	mm	1101X327X249	1101X327X249
	Dimension of Carton Box (LXWXH)	mm	1164X402X339	1164X402X339
	Dimension of Package (LXWXH)	mm	1167X405X354	1167X405X354
	Net Weight	kg	16.5	16.5
	Gross Weight	kg	20	20

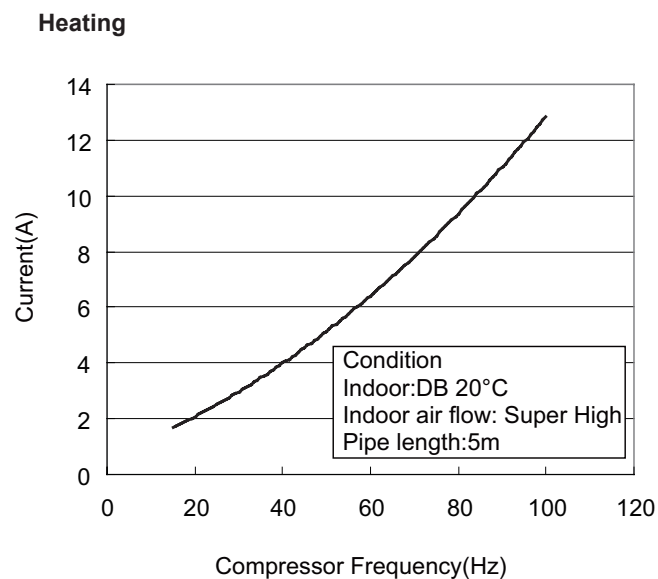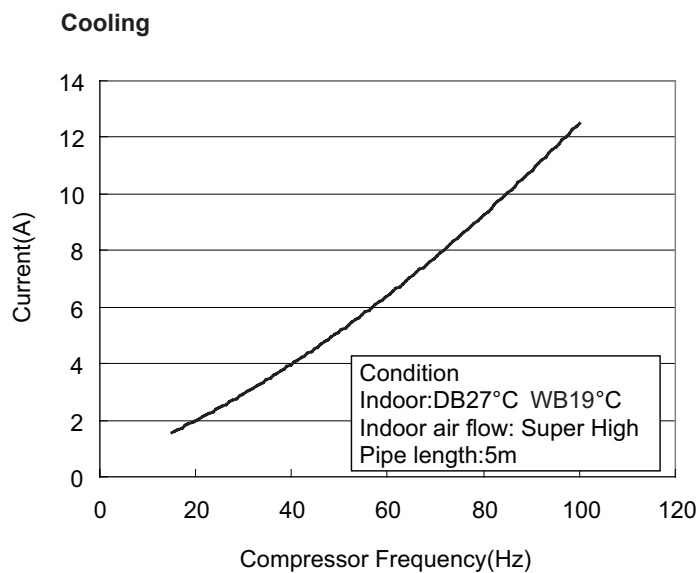|			GWH18YE-S6DBA2A/O(LCLH)	GWH24YE-S6DBA2A/O(LCLH)
Outdoor Unit	Model of Outdoor Unit		GWH18YE-S6DBA2A/O(LCLH)	GWH24YE-S6DBA2A/O(LCLH)
	Outdoor Unit Product Code		CB466W00400	CB466W00300
	Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO., LTD	ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXFT-D20zF030	QXFT-D20zF030
	Compressor Oil		FW68DA	FW68DA
	Compressor Type		Rotary	Rotary
	L.R.A.	A	30	30
	Compressor RLA	A	10.5	16
	Compressor Power Input	W	2260	2050
	Overload Protector		/	/
	Throttling Method		Electron expansion valve	Electron expansion valve
	Operation Temp	^{o}C	16~30	16~30
	Ambient Temp (Cooling)	^{o}C	-18~52	-18~52
	Ambient Temp (Heating)	^{o}C	-30~24	-30~24
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Rows-fin Gap	mm	2-1.4	3-1.5
	Coil Length (LXDXW)	mm	945X38.1X748	994X57.1X748
	Fan Motor Speed	rpm	820	820
	Output of Fan Motor	W	90	90
	Fan Motor RLA	A	0.65	0.65
	Fan Motor Capacitor	μF	/	/
	Air Flow Volume of Outdoor Unit	m^3/h	4000	4000
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Φ550	Φ550
	Defrosting Method		Automatic Defrosting	Automatic Defrosting
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IPX4	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5	2.5
	Sound Pressure Level (H/M/L)	dB (A)	56/-/-	56/-/-
	Sound Power Level (H/M/L)	dB (A)	63/-/-	66/-/-
	Dimension (WXHXD)	mm	980X790X427	980X790X427
	Dimension of Carton Box (LXWXH)	mm	1080X485X840	1080X485X840
	Dimension of Package (LXWXH)	mm	1083X488X855	1083X488X855
	Net Weight	kg	62.5	65
	Gross Weight	kg	67.5	70
	Refrigerant		R32	R32
	Refrigerant Charge	kg	1.5	2.0
Connection Pipe	Length	m	5	5
	Gas Additional Charge	g/m	40	40
	Outer Diameter Liquid Pipe	mm	Φ6	Φ6
	Outer Diameter Gas Pipe	mm	Φ16	Φ16
	Max Distance Height	m	20	30
	Max Distance Length	m	40	50
	Note: The connection pipe applies metric diameter.			

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

Model		GWH18YE-S6DBA1B GWH18YE-S6DBA2B	GWH24YE-S6DBA1A GWH24YE-S6DBA2A
Product Code		CB437003900 (CB466002700/CB466002701 CB466002702/CB466002703)	CB437002802 CB466000308
Power Supply	Rated Voltage	V~	220-240	220-240
	Rated Frequency	Hz	50/60	50/60
	Phases		1	1
Power Supply Mode			Outdoor	Outdoor
Cooling Capacity		W	5300	7034
Heating Capacity		W	6200	7034
Cooling Power Input		W	1180	1850
Heating Power Input		W	1450	1750
Cooling Power Current		A	5.9	11
Heating Power Current		A	5.9	10.76
Rated Input		W	3200	3800
Rated Current		A	15	16.4
Air Flow Volume(SH/H/MH/M/ML/L/SL)		m^3/h	1200/1150/1050/950/850/780/600/500	1200/1050/950/900/850/800/750/550
Dehumidifying Volume		L/h	1.8	2
EER		W/W	4.49	3.80
COP		W/W	4.22	4.00
SEER			6.6	6.5
HSPF			/	/
SCOP(Awerage/Warmer/Colder)			4.4/5.1/3.4	4.1/5.3/3.5
Application Area		m^2	23-34	32-50
Indoor Unit	Model of indoor unit		GWH18YE-S6DBA1B/I GWH18YE-S6DBA2B/I	GWH24YE-S6DBA1A/I GWH24YE-S6DBA2A/I
	Indoor Unit Product Code		CB437N03900 (CB466N02700/CB466N02701 CB466N02702/CB466N02703)	CB437N02802 CB466N00308
	Fan Type		Cross-flow	Cross-flow
	Diameter Length(DXL)	mm	Φ108X830	Φ106X890
	Fan Motor Cooling Speed (SH/H/MH/M/ML/L/SL/SM)	r/min	1200/1150/1100/1000/900/850/800/600	1250/1100/1000/950/900/850/800/600
	Fan Motor Heating Speed(SH/H/MH/M/ML/L/SL/SM)	r/min	1250/1150/1100/1000/800/700/650	1400/1250/1100/1050/1000/900/850
	Output of Fan Motor	W	60	70
	Fan Motor RLA	A	0.24	0.38
	Fan Motor Capacitor	μF	/	/
	Input of Heater	W	/	/
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Row-fin Gap	mm	2-1.4	2-1.5
	Coil Length (LXDXW)	mm	845X25.4X342.9	845X25.4X381
	Swing Motor Model		MP24HF MP35CP	MP24HF MP35CP
	Output of Swing Motor	W	1.5 2.5	1.5 2.5
	Fuse	A	3.15	3.15
	Sound Pressure Level (SH/H/MH/M/ML/L/SL/SM)	dB(A)	Cooling:46/44/42/39/36/34/32/28 Heating:47/44/43/40/36/34/32/-	Cooling:50/46/43/41/39/37/35/27 Heating:50/46/43/41/39/37/35/-
	Sound Power Level (SH/H/MH/M/ML/L/SL/SM)	dB(A)	Cooling:60/54/52/49/46/44/42/38 Heating:57/54/53/50/46/44/43/-	Cooling:64/60/57/55/53/51/49/41 Heating:64/60/57/55/53/51/49/-
	Dimension (WXHXD)	mm	1101X327X249	1101X327X249
	Dimension of Carton Box (LXWXH)	mm	1164X402X339	1164X402X339
	Dimension of Package (LXWXH)	mm	1167X405X354	1167X405X354
	Net Weight	kg	16.5	16.5
	Gross Weight	kg	20	20

Technical Information

Model of Outdoor Unit		GWH18ACE-S6DBA1A/O	GWH24YE-S6DBA2A/O
	Outdoor Unit Product Code	CB497W11000	CB466W00301
	Compressor Manufacturer/Trademark	ZHUHAI LANDA COMPRESSOR CO., LTD	ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model	QXFT-D20zF030	QXFT-D20zF030
	Compressor Oil	FW68DA	FW68DA
	Compressor Type	Rotary	Rotary
	L.R.A.	A	30	30
	Compressor RLA	A	10.5	16
	Compressor Power Input	W	2260	2050
	Overload Protector	/	/
	Throttling Method	Electron expansion valve	Electron expansion valve
	Operation Temp	^{o}C	16~30	16~30
	Ambient Temp (Cooling)	^{o}C	-18~52	-18~52
	Ambient Temp (Heating)	^{o}C	-30~24	-30~24
	Condenser Form	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Rows-fin Gap	mm	2-1.4	3-1.5
	Coil Length (LXDXW)	mm	945X38.1X748	994X57.1X748
	Fan Motor Speed	rpm	820	820
	Output of Fan Motor	W	90	90
Outdoor Unit	Fan Motor RLA	A	0.65	0.65
	Fan Motor Capacitor	μF	/	/
	Air Flow Volume of Outdoor Unit	m^3/h	4000	4000
	Fan Type	Axial-flow	Axial-flow
	Fan Diameter	mm	Φ550	Φ550
	Defrosting Method	Automatic Defrosting	Automatic Defrosting
	Climate Type	T1	T1
	Isolation	I	I
	Moisture Protection	IPX4	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5	2.5
	Sound Pressure Level (H/M/L)	dB (A)	56/-/-	58/-/-
	Sound Power Level (H/M/L)	dB (A)	63/-/-	69/-/-
	Dimension (WXHXD)	mm	1003X790X427	1003X790X427
	Dimension of Carton Box (LXWXH)	mm	1080X485X840	1080X485X840
	Dimension of Package (LXWXH)	mm	1083X488X855	1083X488X855
	Net Weight	kg	61	65
	Gross Weight	kg	66	70
	Refrigerant	R32	R32
	Refrigerant Charge	kg	1.5	2
	Length	m	5	5
	Gas Additional Charge	g/m	40	40
Connection Pipe	Outer Diameter Liquid Pipe	mm	Φ6	Φ6
	Outer Diameter Gas Pipe	mm	Φ16	Φ16
	Max Distance Height	m	20	30
	Max Distance Length	m	50	50
	Note: The connection pipe applies metric diameter.			

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

2.2 Operation Characteristic Curve

Cooling

Condition
Indoor:DB27°C WB19°C
Indoor air flow: Super High
Pipe length:5m

Heating

Condition
Indoor:DB 20°C
Indoor air flow: Super High
Pipe length:5m

2.3 Capacity Variation Ratio According to Temperature

18/24K

Cooling

Condition
Indoor:DB 27°C WB19°C
Indoor air flow: Super High
Pipe length:7.5m

Heating

Condition
Indoor:DB 20°C
Indoor air flow:Super High
Pipe length:7.5m
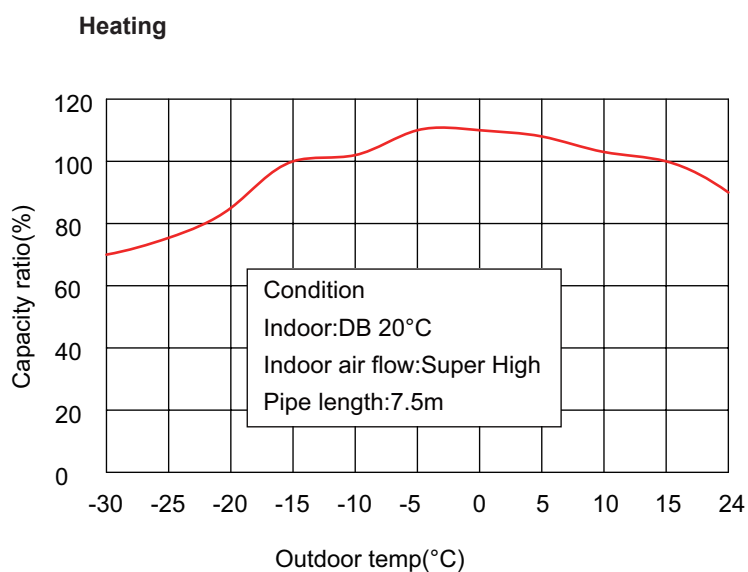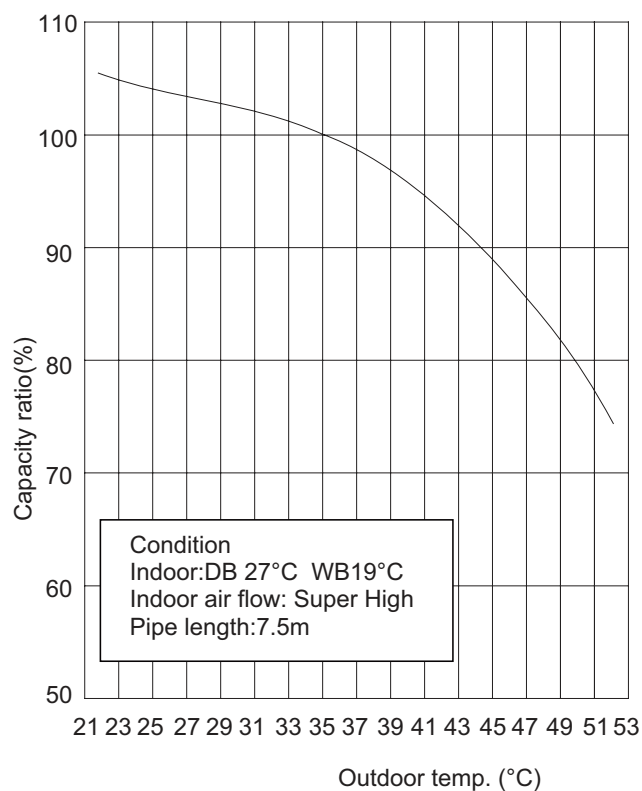
2.4 Cooling and Heating Data Sheet in Rated Frequency

Cooling:

Rated cooling condition(°C) (DB/WB)		Model	Pressure of gas pipe connecting indoor and outdoor unit	Inlet and outlet pipe temperature of heat exchanger		Fan speed of indoor unit	Fan speed of outdoor unit	Compressor frequency (Hz)
Indoor	Outdoor		P (MPa)	T1 (°C)	T2 (°C)			
27/19	35/24	18/24K	0.9 to 1.1	12 to 14	75 to 37	Super High	High	72

Heating:

Rated heating condition(°C) (DB/WB)		Model	Pressure of gas pipe connecting indoor and outdoor unit	Inlet and outlet pipe temperature of heat exchanger		Fan speed of indoor unit	Fan speed of outdoor unit	Compressor frequency (Hz)
Indoor	Outdoor		P (MPa)	T1 (°C)	T2 (°C)			
20/-	7/6	18/24K	2.8 to 3.0	70 to 35	2 to 4	Super High	High	77

Instruction:
T1: Inlet and outlet pipe temperature of evaporator
T2: Inlet and outlet pipe temperature of condenser
P: Pressure at the side of big valve
Connection pipe length: 5m.

2.5 Noise Curve

Indoor fan motor rotating speed

3. Outline Dimension Diagram
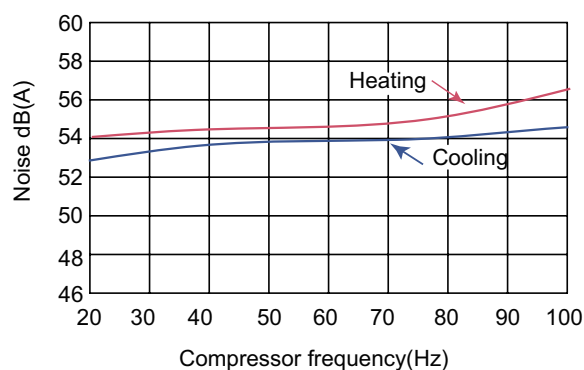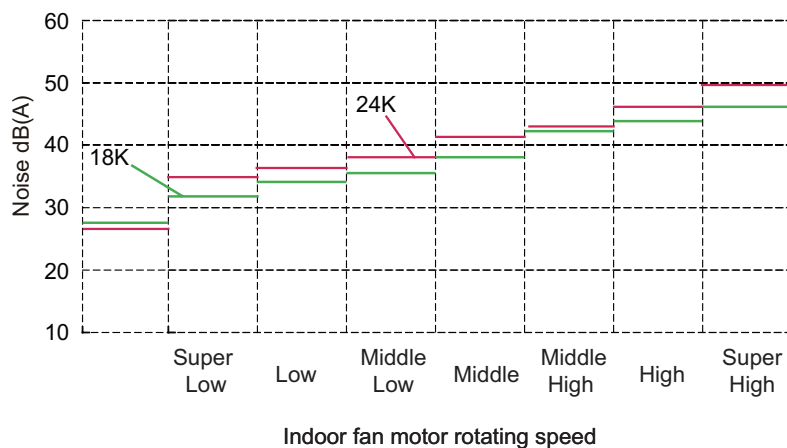
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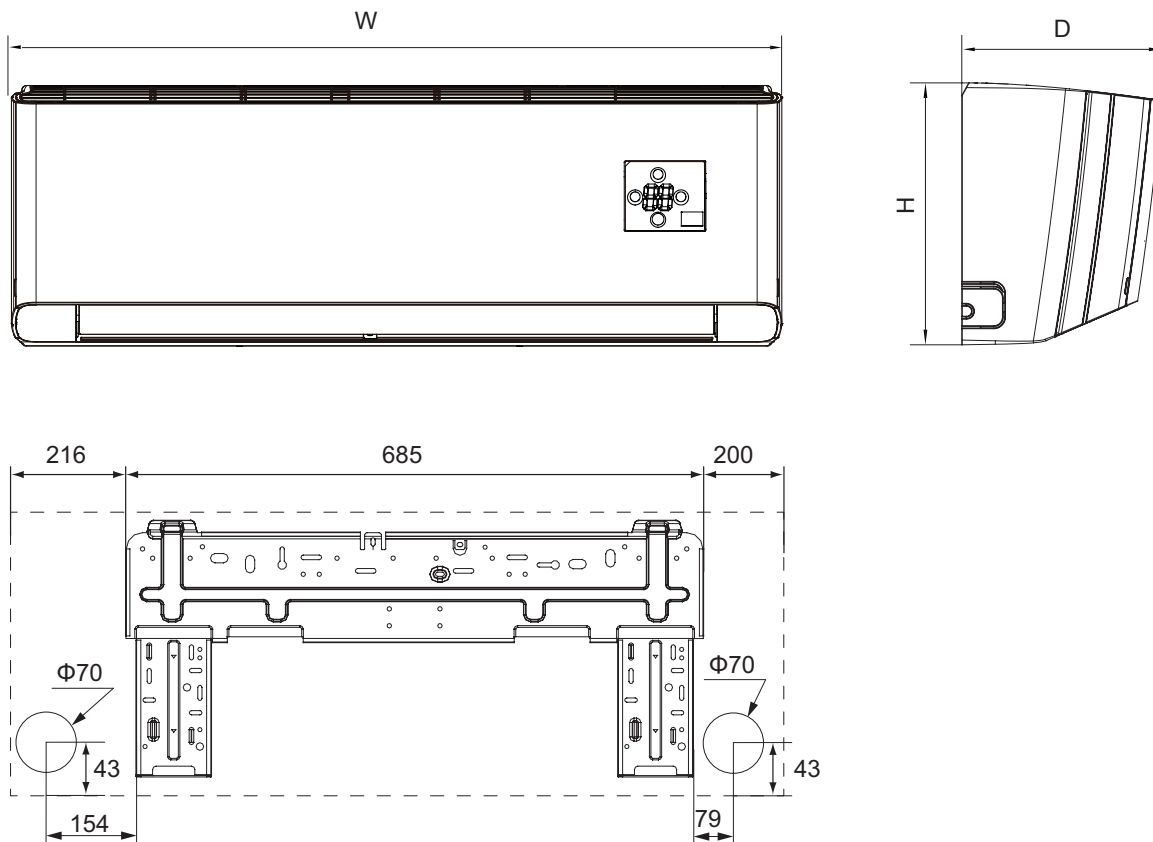
Unit:mm

Models	W	H	D
18/24K	1101	327	249

3.2 Outdoor Unit

GWH18ACE-S6DBA1A/O
GWH18YE-S6DBA2A/O
GWH24YE-S6DBA2A/O

920

370

790

1003

427

395

610

Unit:mm

GWH24YE-S6DBA2A/O

370

920

790

427

1003

395

610

Unit:mm

Technical Information
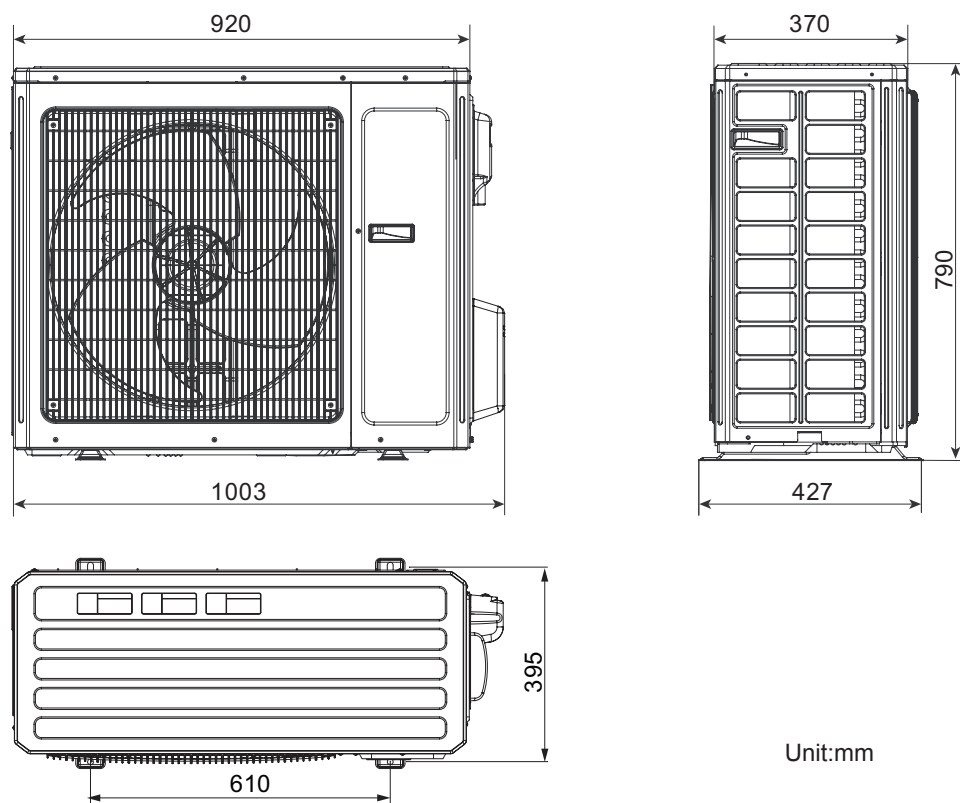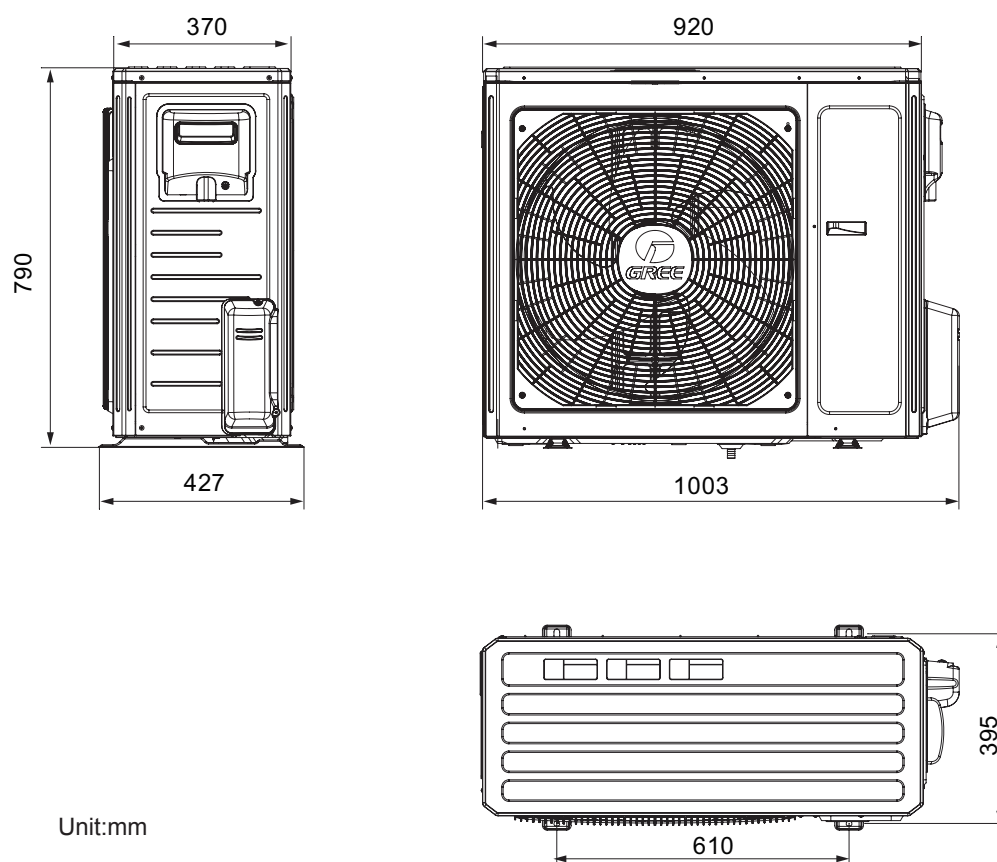
4. Refrigerant System Diagram

Cooling & Heating model

INDOOR UNIT   OUTDOOR UNIT

GAS SIDE

3-WAY VALVE

4-Way valve

HEAT
EXCHANGE
(EVAPORATOR)

Discharge

Suction   Accumlator

COMPRESSOR

HEAT
EXCHANGE
(CONDENSER)

Intercooler

LIQUID SIDE

2-WAY VALVE

Strainer   Electron   Strainer   Strainer   Capillary   Strainer
            expansion
            valve

COOLING

HEATING
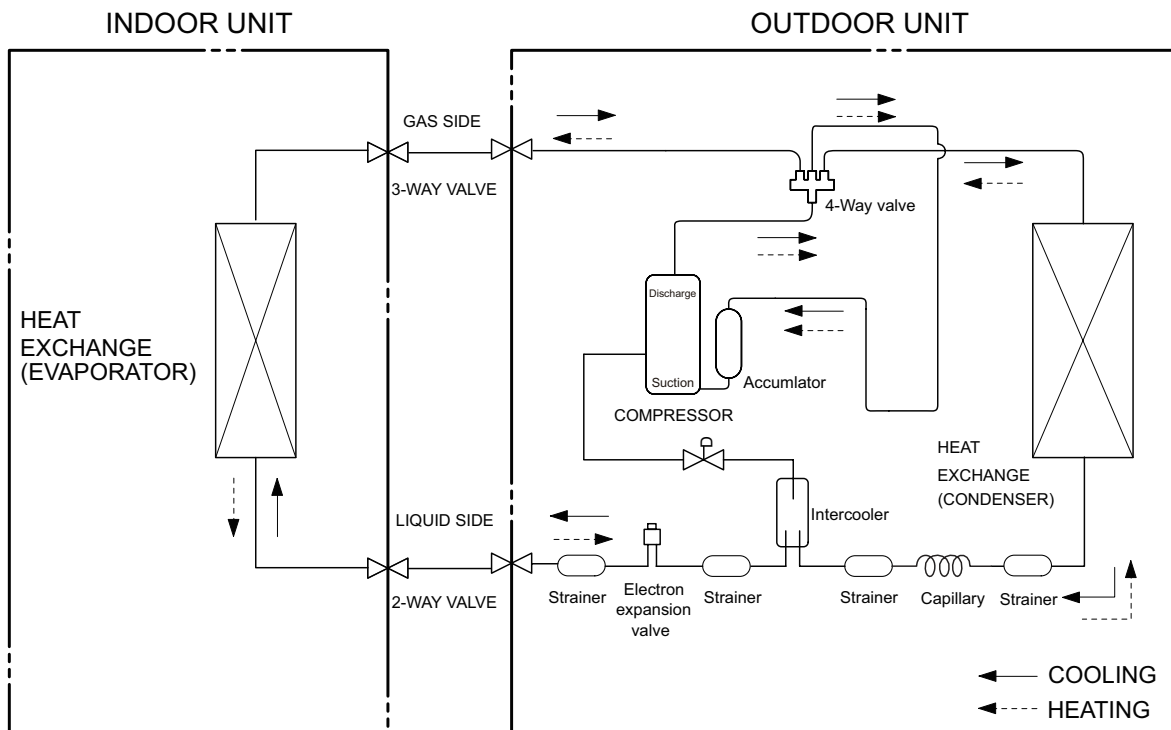
Connection pipe specification:
Liquid pipe:1/4" (6mm)
Gas pipe: 5/8" (16mm)

5. Electrical Part

5.1 Wiring Diagram

●**Instruction**

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

Note: Jumper cap is used to determine fan speed and the swing angle of horizontal lover for this model.

● **Indoor Unit**
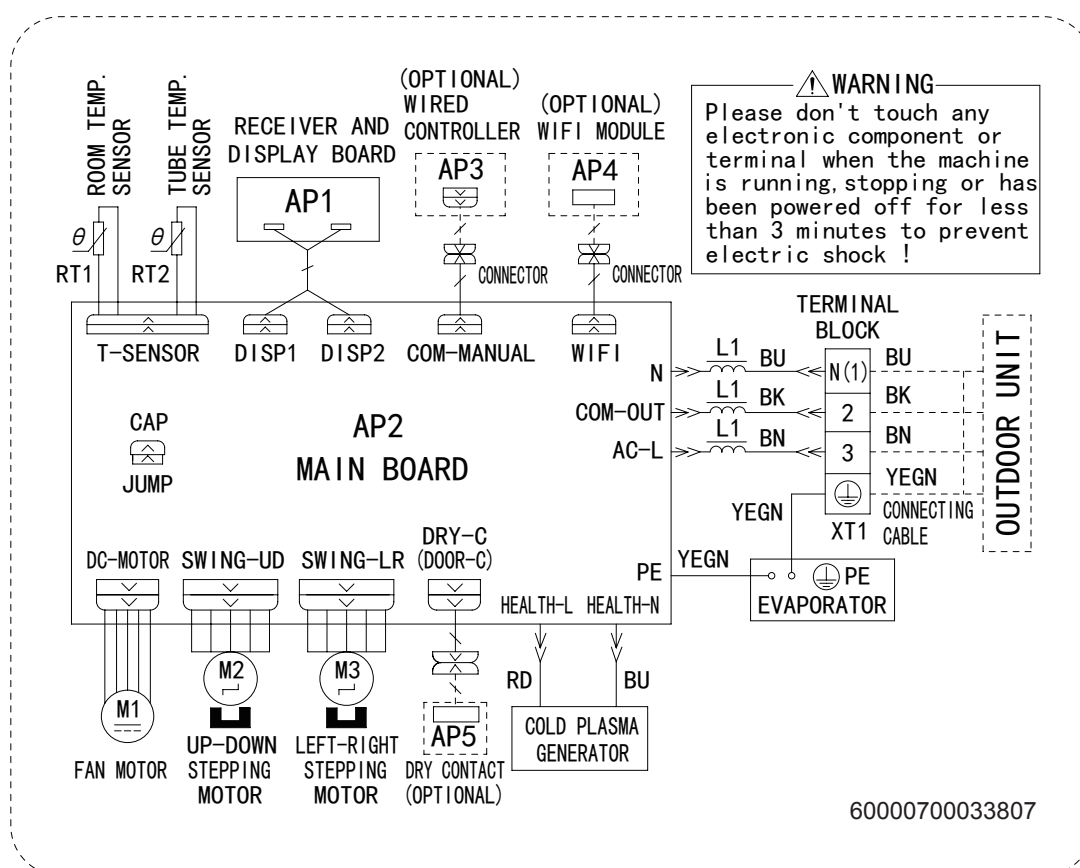
● **Outdoor Unit**

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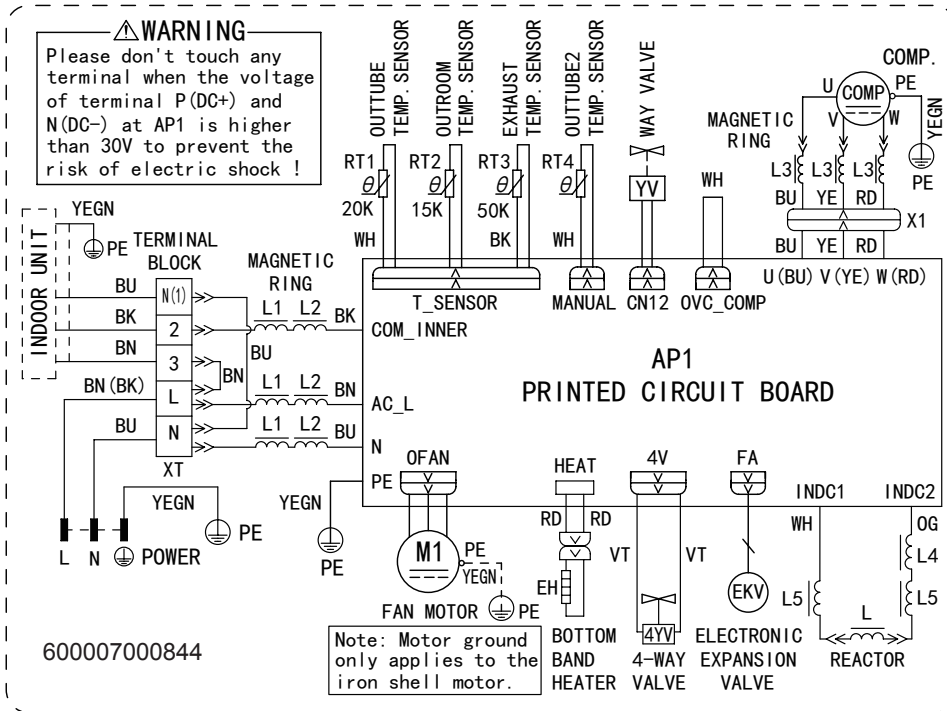
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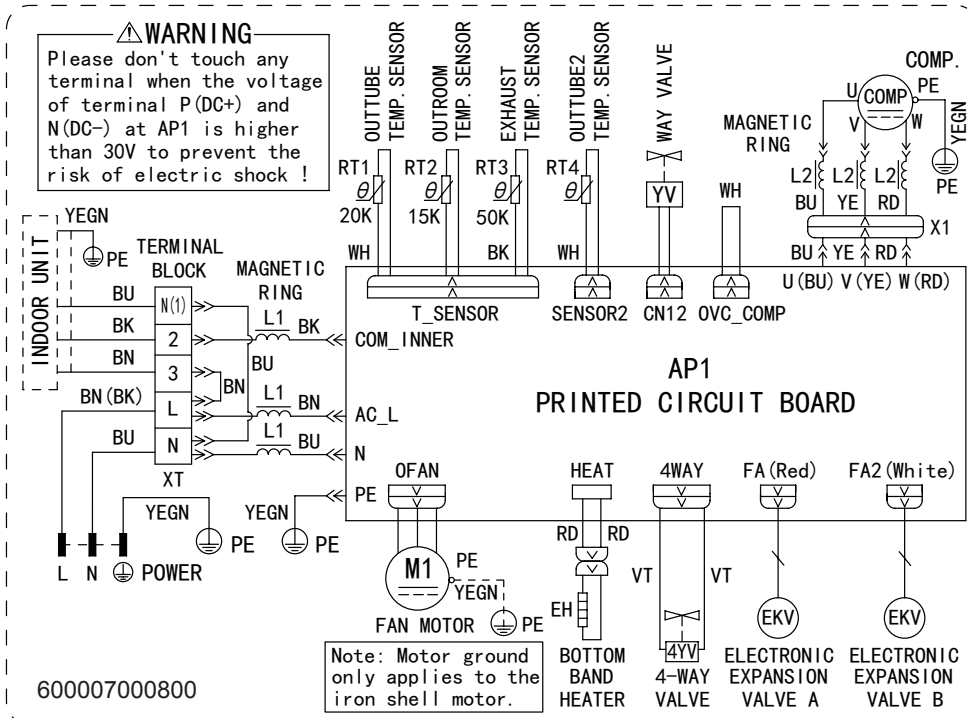
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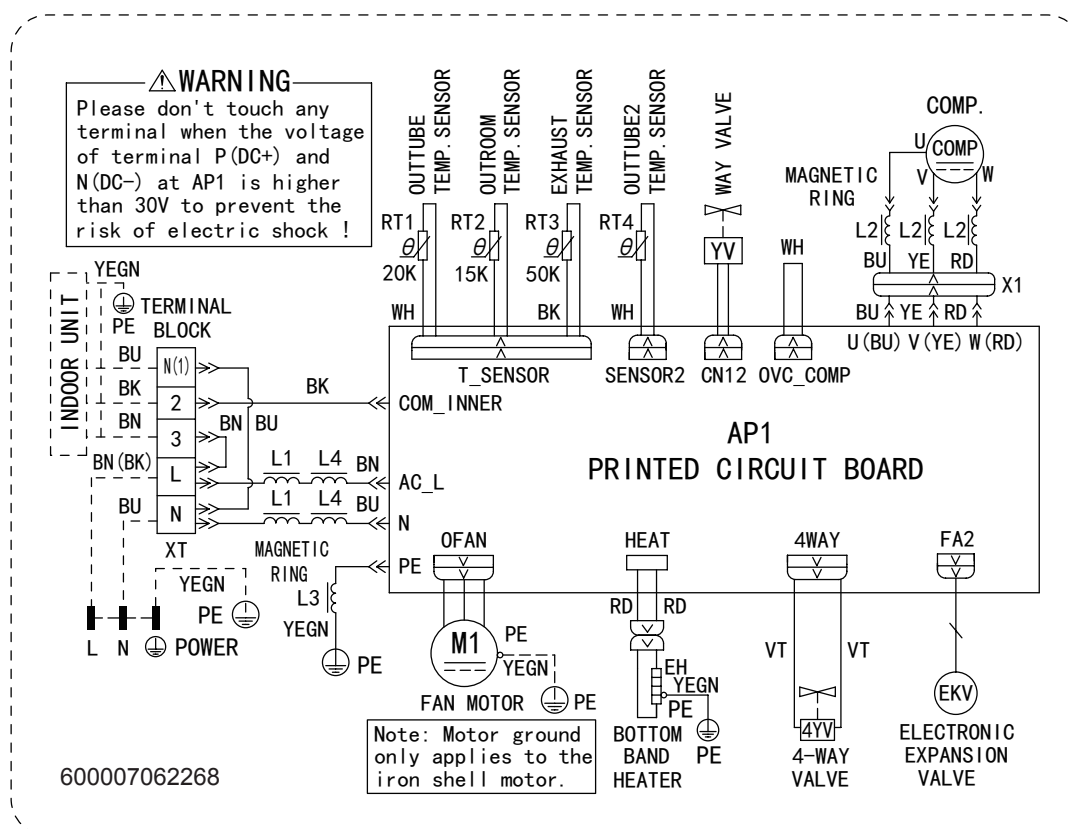
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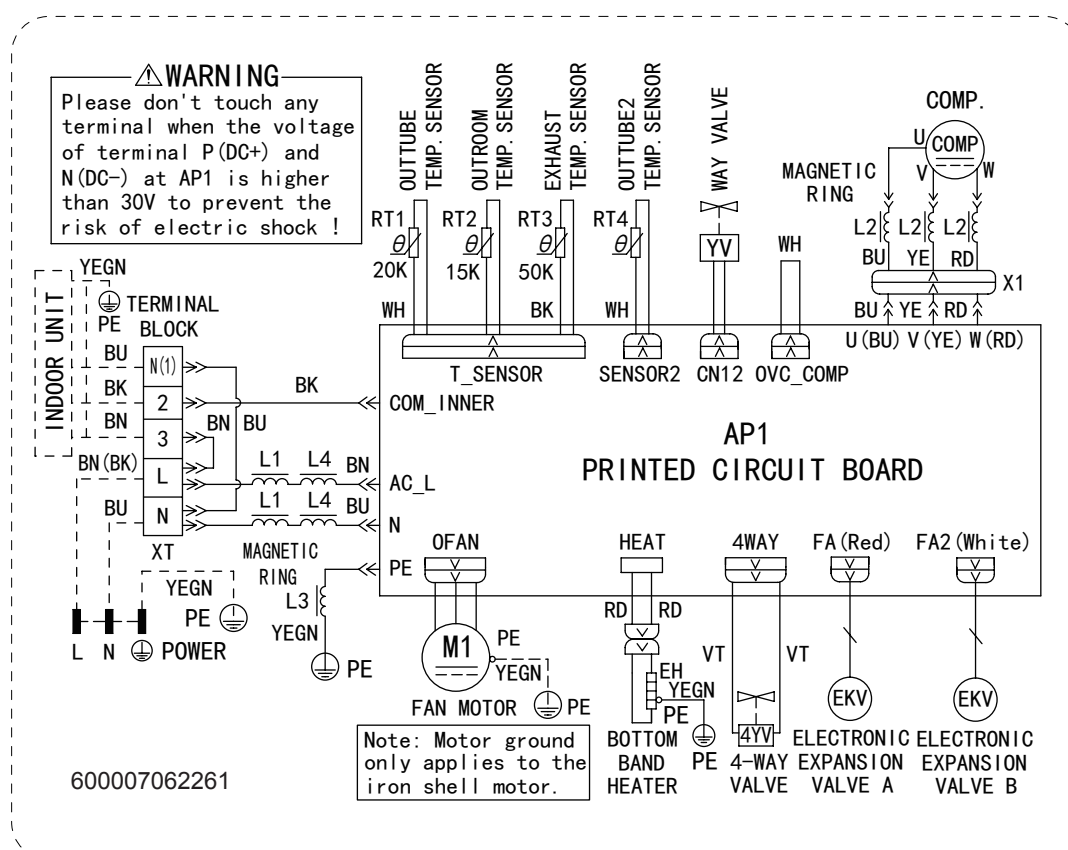
These wiring diagrams are subject to change without notice; please refer to the one supplied with the unit.

5.2 PCB Printed Diagram

● **Indoor Unit**

  ● **Top view**

No.	Name
1	Neutral wire
2	Needle stand for indoor fan
3	Auto button
4	Up&down swing interface
5	Grounding wire
6	Interface of temperature sensor
7	Terminal for display board connection
8	Terminal of jumper cap
9	Communication wire
10	Fuse
11	Live wire interface
12	Interface of health function neutral wire
13	Interface of health function live wire
14	Left&right swing interface
15	Terminal of wired controlle
16	Interface of gate control
17	Detecting plate(WIFI)

● **Bottom view**

● **Outdoor Unit**   GWH18ACE-S6DBA1A/O CB497W11000
                     GWH24YE-S6DBA2A/O   CB466W00301

● **Top view**

No.	Name
1	Interface of compressor
2	Interface of temperature sensor
3	Terminal of compressor overload protection
4	Low-temperature cooling sensor
5	Cooling A valve
6	Cooling B valve
7	Interface of outdoor motor
8	Interface of 2-way valve
9	Interface of 4-way valve
10	Terminal of chassis electric heating
11	Communication wire with indoor unit
12	Live wire interface of power cord
13	Earthing wire interface of cold plasma
14	Neutral wire interface of power cord

● **Bottom view**

Technical Information

GWH18YE-S6DBA2A/O CB466W00400

● **Top view**

1	Terminal of compressor wire
2	Terminal of low pressure protection
3	Terminal of compressor overload protection
4	Terminal of outdoor temperature sensor
5	Terminal of outdoor fan
6	Terminal of 4-way valve
7	Communication wire with indoor unit
8	Power supply live wire
9	Earthing wire
10	Power supply neutral wire
11	PFC induction wire

● **Bottom view**

GWH24YE-S6DBA2A/O CB466W00300

● **Top view**

No.	Name
1	Interface of compressor
2	Interface of temperature sensor
3	Terminal of compressor overload protection
4	Low-temperature cooling sensor
5	Cooling A valve
6	Cooling B valve
7	Interface of outdoor motor
8	Interface of 2-way valve
9	Interface of 4-way valve
10	Terminal of chassis electric heating
11	Communication wire with indoor unit
12	Live wire interface of power cord
13	Earthing wire interface of cold plasma
14	Neutral wire interface of power cord

● **Bottom view**

Technical Information

6. Function and Control

6.1 Remote Controller Introduction

Buttons on Remote Controller   YAG1FB3(WiFi)

(before opening cover)   (after opening cover)

1 ON/OFF button
2 FAN button
3 MODE button
4 +/- button

1 ON/OFF button
2 FAN button
3 MODE button
4 +/- button
5 TURBO button
6 ▨ button
7 ⫩ button
8 CLOCK button
9 TIMER ON/ TIMER OFF button
10 TEMP button
11 ⼀/⼀ button
12 I FEEL button
13 LIGHT button
14 WiFi button
15 QUIET button
16 SLEEP button

Introduction for Icons on Display Screen

I feel
Quiet
Operation mode
Auto mode
Cool mode
Dry mode
Fan mode
Heat mode
Clock
Sleep mode
Light

Set fan speed
Turbo mode
Send signal
Healthy mode
Scavenging functions
8℃ heating function
Set temperature
This is a general remote controller. Some models have this function while some do not. Please refer to the actual models.
X-FAN function
Set time
TIMER ON /TIMER OFF
Child lock
Up & down swing
Left & right swing

Temp. display type
⼀ : Set temp.   ⼀ : Indoor ambient temp.
⼀ : Outdoor ambient temp.

Introduction for Buttons on Remote Controller

Note:

● This is a general use remote controller, it could be used for the air conditioners with multifunction; For some function, which the model doesn't have, if press the corresponding button on the remote controller that the unit will keep the original running status.

● After putting through the power, the air conditioner will give out a sound.Operation indicator " (¹) " is ON (red indicator the colour is different for different models). . After that, you can operate the air conditioner by using remote controller.

● Under on status, pressing the button on the remote controller, the signal icon " 📶 " on the display of remote controller will blink once and the air conditioner will give out a "di " sound, which means the signal has been sent to the air conditioner.

● Under off status, set temperature and clock icon will be displayed on the display of remote controller (If timer on, timer off and light functions are set, the corresponding icons will be displayed on the display of remote controller at the same time); Under on status, the display will show the corresponding set function icons.

1. ON/OFF button

Press this button, the unit will be turned on, press it once more, the unit will be turned off. Sleep function will be canceled, while unit off.

2. FAN button

Press this button, Auto, Low, Medium-low, Medium, Medium-high, High speed can be circularly selected. After powered on, Auto fan speed is default. Under DRY mode, Low fan speed only can be set up.

◢ Low fan ◢◣ Medium-low fan ◢◣▮ Medium fan ◢◣▮▮ Medium-high fan ◢◣▮▮▮ High fan

Note:

● It's Low fan speed under Dry mode.
● X-FAN function：Hold fan speed button for 2s in COOL or DRY mode, the icon " ✿ " is displayed and the indoor fan will continue operation for a few minutes 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.
This function indicates that moisture on evaporator of indoor unit will be blowed after the unit is stopped to avoid mould.
● Having set X-FAN function on: After turning off the unit by pressing ON/OFF button indoor fan will continue running for a few minutes. at low speed. In this period, Hold fan speed button for 2s to stop indoor fan directly.
● Having set X-FAN function off: After turning off the unit by pressing ON/OFF button, the complete unit will be off directly.

3. MODE button

Press this button, Auto, Cool, Dry, Fan, Heat mode can be selected circularly. Auto mode is default while power on. Under auto mode, temperature can be displayed;Under auto mode,set temperature can be adjusted;

Under Heat mode, the initial value is 28°C(82°F);Under other modes, the initial value is 25°C(77°F).

⌒ AUTO ❄ COOL ❁ DRY ❀ FAN ☀ HEAT

(only for cooling and heating unit. As for cooling only unit, it won't have any action when it receives the signal of heating operation.)
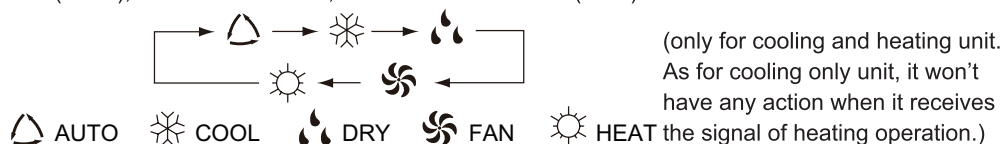
4. +/- button

 Press " + " or " - " button once increase or decrease set temperature 1°C(°F).   Holding " + " or " - " button, set temperature on remote controller will change   quickly. On releasing button after setting is finished, temperature indicator   on indoor unit will change accordingly. When setting TIMER ON, TIMER OFF or CLOCK, press " + " or " - " button to   adjust time. (Refer to CLOCK, TIMER ON, TIMER OFF buttons)

5. TURBO button

Under Cool or Heat mode,press this button can turn on or turn off the Turbo function.After the Turbo function turned on, the signal of Turbo will display. The signal will be automatically cancelled if changing the mode or fan speed.

6. ▭ button

Press this button to set left & right swing angle cycling as below:

7. ▮ button

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

This remote controller is universal. If it receives threes kinds of following status,the swing angle will remain origial.

If guide louver is stopped when it is swinging up and down,it will remain its present position.
▮indicates guide louver swings back and forth in the five places,as shown in the figure.

8. CLOCK button

Press this button, the clock can be set up,signal ◔ blink and display.Within 5 seconds, the value can be adjusted by pressing + or - button, if continuously press this button for 2 seconds above,in every 0.5 seconds, the value on ten place of Minute will be increased 1.During blinking,repress the Clock button or Confirm button,signal ◔ will be constantly displayed and it denotes the setting succeeded. After powered on, 12:00 is defaulted to display and signal ◔ will be displayed. If there is signal ◔ be displayed that denotes the current time value is Clock value, otherwise is Timer value.

● ● ● ● ● ●

9. TIMER ON/TIMER OFF button

● Timer On setting: Signal "ON"will blink and display,signal ⊕ will conceal,the numerical section will become the timer on setting status. During 5 seconds blink,by pressing + or - button to adjust the time value of numerical section,every press of that button,the value will be increased or decreased 1 minute.Hold pressing + or - button,2 seconds later,it quickly change,the way of change is: During the initial 2.5 seconds,ten numbers change in the one place of minute,then the one place is constant,ten numbers change in the ten splace of minute at 2.5 seconds speed and carry. During 5s blink,press the Timer button,the timer setting succeeds.The Timer On has been set up,repress the timer button,theTimer On will be canceled. Before setting theTimer,please adjust the Clock to the current actual time.

● One press this key to enter into TIMER OFF setup, in which case the TIMER OFF icon will blink. The method of setting is the sameas for TIMER ON.

10. TEMP button

Press this button, you can see indoor set temperature, indoor ambient temperature or outdoor ambient temperature on indoor unit's display. The setting on remote controller is selected circularly as below:

no display → ⌂
⌂₀ ← ⌂ ←

When selecting " ⌂ " with remote controller or no display, temperature indicator on indoor unit displays set temperature; When selecting " ⌂ " with remote controller,temperature indicator on indoor unit displays indoor ambient temperature; When selecting " ⌂₀ " with remote controller, temperature indicator on indoor unit displays outdoor ambient temperature. 3s later it will return to the setting temprature or it depends on the other received signal within 3s.

Attention: When displaying the outdoor ambient, the displaying range is 32-99°F and 0-60°C.When it goes beyond the range, it keeps the threshold data (the smallest—0°C or 32°F and the largest 99°F or 60°C).

Warm tips: When operating buttons on the cover please make sure the cover is closed completely.

Note:
Outdoor temperature display is not available for some models. At that time,   indoor unit receives " ⌂₀ " signal, while it displays indoor set temperature.

11. ✦ / ⌂ button
Press this button to achieve the on and off of healthy and scavenging functions in operation status.Press this button for the first time to start scavenging function;LCD displays" ⌂ ".Press the button for the second time to start healthy and scavenging functions simultaneously;LCD displays" ⌂ "and " ✦ " .Press this button for the third time to quit healthy and scavenging functions simultaneously. Press the button for the fourth time to start healthy function; LCD display" ✦ " .Press this button again to repeat the operation above.

NOTE: This function is applicable to partial of models.

12. I FEEL button

Press this button once, to turn on the I FEEL function, then the figure of "I FEEL"will be displayed, after every press of other function button, every 200ms to sendI FEEL once, after this function started, the remote controller will send temperatureto the main un it in every 10 minutes. When repress this button, this function will beturned off. When I FEEL function is turned on, the remote controller should be put within the area where indoor unit can receive the signal sent by the remote controller.

13. LIGHT button
Press this button at unit On or Off status,Light On and Light Off can be set up.After powered on, Light On is defaulted.

14 WiFi button
Press " WiFi " button to turn on or turn off WiFi function. When WiFi function is turned on, the " WiFi " icon will be displayed on remote controller; Under status of remote controller off, press "MODE" and " WiFi " buttons simultaneously for 1s, WiFi module will restore to factory default setting.
● This function is only available for some models.

15. QUIET button
Press this button, the Quiet status is under the Auto Quiet mode (display" 🎧 "and "Auto" signal) and Quiet mode (display " 🎧 " signal) and Quiet OFF (there is no signal of " 🎧 " displayed), after powered on, the Quiet OFF is defaulted.Under the Quiet mode (Display " 🎧 " signal).
The Quiet function is only available for some models.

16. SLEEP button

Press this button, can select Sleep 1 (🌙1), Sleep 2 (🌙2), Sleep 3 (🌙3) andcancel the Sleep, circulate between these, after electrified, Sleep Cancel is de-faulted.

Sleep 1 is Sleep mode 1, in Cool modes: sleep status after run for one hour, the main unit setting temperature will increase 1℃, 2 hours, setting temperatureincreased 2℃, the unit will run at this setting temperature; In Heat mode:sleep status after run for one hour, the setting temperature will decrease 1℃, 2 hours, setting temperature will decrease 2℃, then the unit will run at this settingtemperature.

Sleep 2 is sleep mode 2, that is air conditioner will run according to the presettinga group of sleep temperature curve.

In Cool mode:
(1) When setting the initial temperature 16℃-23℃, after turned on Sleep function,the temperature will be increased 1℃ in every hour, after 3℃ the temperaturewill be maintained, after 7hours, the temperature will be decreased 1℃, afterthat the unit will keep on running under this temperature;
(2) When setting the initial temperature 24℃-27℃, after turned on Sleep function,the temperature will be increased 1℃ in every hour, after 2℃ the temperaturewill be maintained, after 7hours, the temperature will be decreased 1℃, afterthat the unit will keep on running under this temperature;
(3) When setting the initial temperature 28℃-29℃, after turned on Sleep function,the temperature will be increased 1℃ in every hour, after 1℃ the temperature will be maintained, after 7hours, the temperature will be decreased 1℃, afterthat the unit will keep on running under this temperature;

(4) When setting the initial temperature 30℃, under this temperature setting, after 7hours, the temperature will be decreased 1℃, after that the unit will keep onrunning under this temperature;

In Heat mode:

(1) Under the initial presetting temperature 16℃, it will run under this setting temperature all along.

(2) Under the initial presetting temperature17℃-20℃, after Sleep function started up, the temperature will decrease 1℃ in every hour, after 1℃ decreased, thistemperature will be maintained.

(3) Under the initial presetting temperature 21℃-27℃, after Sleep function started up, the temperature will decrease 1℃ in every hour, after 2℃ decreased, thistemperature will be maintained.

(4) Under the initial presetting temperature 28℃-30℃, after Sleep function started up, the temperature will decrease 1℃ in every hour, after 3℃ decreased, thistemperature will be maintained.

Sleep 3 - the sleep curve setting under Sleep mode by DIY:

(1) Under Sleep 3 mode, press "Turbo" button for a long time, remote controller enters into user individuation sleep setting status, at this time, the time of remotecontroller will display "1hour", the setting temperature "88" will display the corr-esponding temperature of last setting sleep curve and blink (The first enteringwill display according to the initial curve setting value of original factory);

2) Adjust "+" and "-" button, could change the corresponding setting temperature,after adjusted, press "Trubo" button for confirmation;

(3) At this time, 1hour will be automatically increased at the timer postion on the remote controller, (that are "2hours" or "3hours" or "8hours"), the place of setting temperature "88" will display the corresponding temperature of last settingsleep curve and blink;

(4) Repeat the above step (2)~(3) operation, until 8hours temperature setting finished,sleep curve setting finished, at this time, the remote controller will resume theoriginal timer display; temperature display will resume to original setting temperature.

Sleep3 - the sleep curve setting under Sleep mode by DIY could be inquired:The user could accord to sleep curve setting method to inquire the presetting sleepcurve, enter into user individuation sleep setting status, but do not change the temperature, press "Turbo" button directly for confirmation.

Note: In the above presetting or enquiry procedure, if continuously within10s, thereis no button pressed, the sleep curve setting status will be automatically quitand resume to display the original displaying. In the presetting or enquiry pr-ocedure, press "ON/OFF" button, "Mode" button, "Timer" button or "Sleep" button, the sleep curve setting or enquiry status will quit similarly.

If "H1" is displayed on the remote controller while it's not operated by the professional person/after-sales person, it belongs to the misoperation. Please operate it as below to cancel it.Under the OFF status of remote controller, hold the Mode button for 5s to cancel "H1" display.

Note:

● If remote controller displays "H1", it belongs to the normal function reminder. If the unit is defrosting under heating mode, it operates according to H1 defrosting mode. "H1" won't be displayed on the panel of indoor unit;

● Once you set H1 mode, if you turn off unit by remote controller, H1 will display 3 times on the remote controller and then disappear;

● Also, when you set H1 mode, when you change to heating mode, H1 will display 3 times on the remote controller and then disappear.

Introduction for special function

About AUTO RUN

When AUTO RUN mode is selected, the unit will be in accordance with the room temp. automatically to select the suitable running method and to make ambient comfortable.

About turbo function

If start this function, the unit will run at super-high fan speed to cool or heat quickly sothat the ambient temp. approachs the preset temp. as soon as possible.

About lock

Press + and - buttons simultaneously to lock or unlock the keyboard. If the remote co-ntroller is locked , the icon 🔒 will be displayed on it, in which case, press any button, the mark will flicker for three times. If the keyboard is unlocked, the mark will disappear.

About swing up and down

1. Press swing up and down button continuously more than 2s, the m ain unit will swingbackand forth from up to down , and then loosen the button, the unit will stop swingand present position of guide louver will be kept immediately.

2. Under swing up and down mode, when the status is switched from off to ⌇▎ , if pressthis button again 2s later, ⌇▎status will switch to off status directly; If press this buttonagain within 2s, the change of swing status will also depend on the circulation seque-nce stated above.

About swing left and right

1. Press swing left and right button continuously more than 2s, the main unit will swingback and forth from left to right, and then loosen the button, the unit will stop swingand present position of guide louver will be kept immediately.2. Under swing left and right mode, when the status is switched from off to 🔀, if pressthis button again 2s later, 🔀status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequ-ence stated above.

About switch between Fahrenheit and Centigrade

Under status of unit off, press MODE and - buttons simultaneously to switch ℃ and ℉.

Combination of "TEMP" and "CLOCK" buttons: About Energy - saving Function

Press "TEMP" and "CLOCK" simultaneously in COOL mode to start energy-saving fun-ction. Nixie tube on the remote controller displays "SE". Repeat the operation to quit the function.

About Quiet function

When quiet function is selected:

1. Under cooling mode: indoor fan operates at notch 4 speed. 10 minutes later or whenindoor ambient temperature≤28℃, indoor fan will operate at notch 2 speed or quietmode according to the comparison between indoor ambinet temperature and set tem-perature.

2. Under heating mode: indoor fan operates at notch 3 speed or quiet mode accordingto the comparison between indoor ambient temperature and set temperature.

3. Under dry, fan mode: indoor fan operates at quiet mode.

4. Under auto mode: the indoor fan operates at the auto quiet mode according to actual cooling, heating or fan mode.
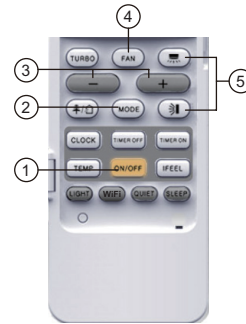
About Sleep function

Under the Fan、Dry and Auto mode, the Sleep function cannot be set up, Select and enter into any kind of Sleep mode, the Quiet function will be attached and stared, different Quiet status could be optional and turned off.
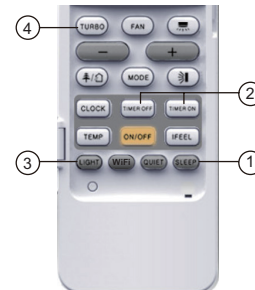
Operation Guide

1. General operation

1. After powered on, press ON/OFF button, the unit will start
   to run. (Note: When it is powered on, the guide louver of
   main unit will close automatically.)
2. Press MODE button, select desired running mode.
3. Pressing + or - button, to set the desired temperature.
4. Pressing FAN button, set fan speed, can select AUTO FAN,
   LOW, MEDIUM-LOW, MEDIUM, MEDIUM-HIGH and HIGH.
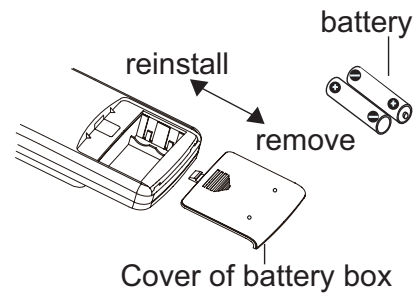5. Pressing ⫲ and 🐾 button, to select the swing.

2. Optional operation

1. Press SLEEP button, to set sleep.
2. Press TIMER ON and TIMER OFF button, can set the
   scheduled timer on or timer off.
3. Press LIGHT button, to control the on and off of the
   displaying part of the unit (This function may be not
   available for some units).
4. Press TURBO button, can realize the ON and OFF of
   TURBO function.

Replacement of Batteries in Remote Controller

1. Press the back side of remote controller marked
   with "🗄", as shown in the fig, and then push out
   the cover of battery box along the arrow direction.
2. Replace two 7# (AAA 1.5V) dry batteries, and
   make sure the position of "+" polar and "-" polar
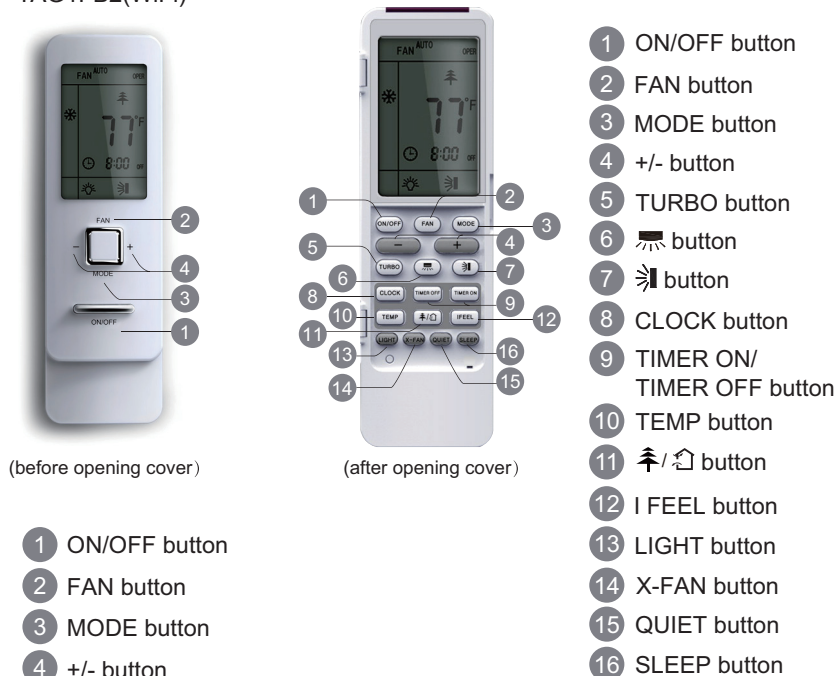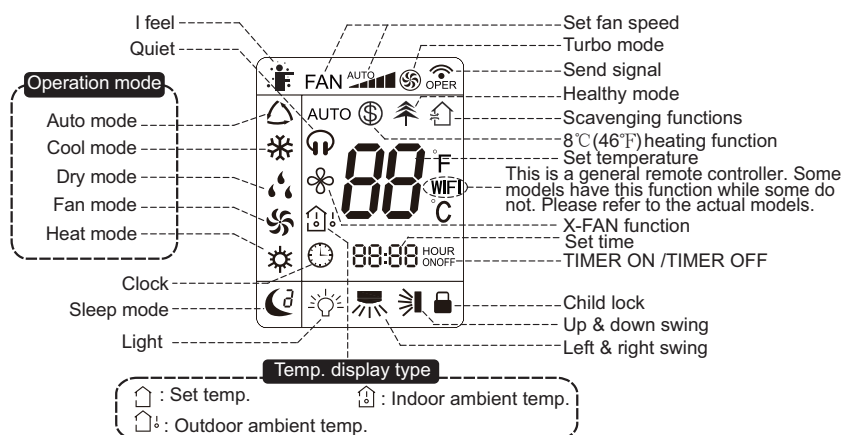   are correct.
3. Reinstall the cover of battery box.

Note:
- During operation, point the remote control signal sender at the receiving
  window on indoor unit.
- The distance between signal sender and receiving window should be no
  more than 8m, and there should be no obstacles between them.
- Signal may be interfered easily in the room where there is fluorescent lamp
  or wireless telephone; remote controller should be close to indoor unit during
  operation.
- Replace new batteries of the same model when replacement is required.
- When you don't use remote controller for a long time, please take out the
  batteries.
- If the display on remote controller is fuzzy or there's no display, please
  replace batteries.

Buttons on Remote Controller

YAG1FB2(WiFi)

(before opening cover)　　　　(after opening cover)

1　ON/OFF button
2　FAN button
3　MODE button
4　+/- button
5　TURBO button
6　 button
7　 button
8　CLOCK button
9　TIMER ON/
　　TIMER OFF button
10　TEMP button
11　 button
12　I FEEL button
13　LIGHT button
14　X-FAN button
15　QUIET button
16　SLEEP button

1　ON/OFF button
2　FAN button
3　MODE button
4　+/- button

Introduction for Icons on Display Screen

I feel
Quiet
Operation mode
Auto mode
Cool mode
Dry mode
Fan mode
Heat mode
Clock
Sleep mode
Light

Set fan speed
Turbo mode
Send signal
Healthy mode
Scavenging functions
8℃(46℉)heating function
Set temperature
This is a general remote controller. Some models have this function while some do not. Please refer to the actual models.
X-FAN function
Set time
TIMER ON /TIMER OFF
Child lock
Up & down swing
Left & right swing

Temp. display type
⌂ : Set temp.　　　⌂ : Indoor ambient temp.
⌂ : Outdoor ambient temp.

## Introduction for Buttons on Remote Controller

Note:

● This is a general use remote controller, it could be used for the air conditioners with multifunction; For some function, which the model don't have, if press the corresponding button on the remote controller that the unit will keep the original running status.

● After putting through the power, the air conditioner will give out a sound.Operation indicator " ⏻ " is ON (red indicator,the colour is different for different models). After that, you can operate the air conditioner by using remote controller.

● Under on status, pressing the button on the remote controller, the signal icon " 📶 " on the display of remote controller will blink once and the air conditioner will give out a "de" sound, which means the signal has been sent to the air conditioner.

● Under off status, set temperature and clock icon will be displayed on the display of remote controller (If timer on, timer off and light functions are set, the corresponding icons will be displayed on the display of remote controller at the same time); Under on status, the display will show the corresponding set function icons.

1. ON/OFF button

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

2. FAN button

Press this button, Auto, Low, Medium-low, Medium, Medium-high, High speed can be circularly selected. After powered on, Auto fan speed is default. Under DRY mode, Low fan speed only can be set up.
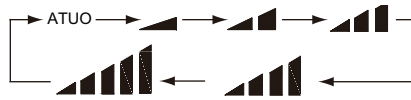

Note: It's Low fan speed under Dry mode.

◢ Low fan   ◢◣ Medium-low fan   ◢◣▌ Medium fan   ◢◣▌▌ Medium-high fan   ◢◣▌▌▌ High fan

3. MODE button

Press this button, Auto, Cool, Dry, Fan, Heat mode can be selected circularly. Auto mode is default while power on. Under Auto mode, the temperature will not be displayed;Under Heat mode, the initial value is 28°C(82°F);Under other modes, the initial value is 25°C(77°F).

△ AUTO   ❄ COOL   💧 DRY   ✿ FAN   ☼ HEAT
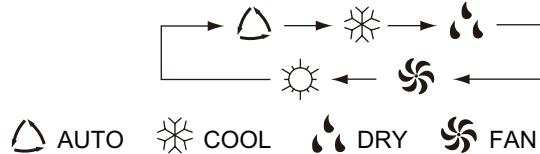
(only for cooling and heating unit. As for cooling only unit, it won't have any action when it receives the signal of heating operation.)

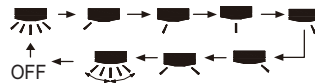### 4. +/- button

● Presetting temperature can be increased.

Press this button,the temperature can be set up, continuously press this button and hold for two seconds, the relative contents can quickly change,until unhold this button and send the order that the °C(°F) signal will be displayed all the time.The temperature adjustment is unavilable under the Auto mode, but the order can be sent by if pressing this button.Temperature of Celsius degree setting:16-30;for Fahrenheit degree setting:61-86.

● Presetting temperature can be decreased.

Press this button, the temperature can be set up, continuously press this button and hold for two seconds, the relative contents can quickly change,until unhold this button and send the order that the°C(°F) signal will be displayed all the time.The temperature adjustment is unavailable under the Auto mode,but the order can be sent by if pressing this button.

5. TURBO button

Under Cool or Heat mode,press this button can turn on or turn off the Turbo function.After the Turbo function turned on, the signal of Turbo will display. The signal will be automatically cancelled if changing the mode or fan speed.

6. 🎐 button

Press this button to set left & right swing angle cycling as below:

7. 🎐 button

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

This remote controller is universal. If it receives threes kinds of following status,the swing angle will remain origial.

If guide louver is stopped when it is swinging up and down,it will remain its present position.

🎐 indicates guide louver swings back and forth in the five places,as shown in the figure.

8. CLOCK button

Press this button, the clock can be set up,signal 🕐 blink and display.Within 5 seconds, the value can be adjusted by pressing + or - button, if continuously press this button for 2 seconds above,in every 0.5 seconds, the value on ten place of Minute will be increased 1.During blinking,repress the Clock button or Confirm button,signal 🕐 will be constantly displayed and it denotes the setting succeeded. After powered on, 12:00 is defaulted to display and signal 🕐 will be displayed. If there is signal 🕐 be displayed that denotes the current time value is Clock value, otherwise is Timer value.

9. TIMER ON/TIMER OFF button

● Timer On setting: Signal "ON"will blink and display,signal 🕐 will conceal,the numerical section will become the timer on setting status. During 5 seconds blink,by pressing + or - button to adjust the time value of numerical section,every press of that button,the value will be increased or decreased 1 minute.Hold pressing + or - button,2 seconds later,it quickly change,the way of change is: During the initial 2.5 seconds,ten numbers change in the one place of minute,then the one place is constant,ten numbers change in the ten splace of minute at 2.5 seconds speed and carry. During 5s blink,press the Timer button,the timer setting succeeds.The Timer On has been set up,repress the timer button,theTimer On will be canceled. Before setting theTimer,please adjust the Clock to the current actual time.

● One press this key to enter into TIMER OFF setup, in which case the TIMER OFF icon will blink. The method of setting is the sameas for TIMER ON.

10. TEMP button

Press this button, you can see indoor set temperature, indoor ambient temperature or outdoor ambient temperature on indoor unit's display. The setting on remote controller is selected circularly as below:

no display

When selecting " ⌂ " with remote controller or no display, temperature indicator on indoor unit displays set temperature; When selecting " ⌂ " with remote controller,temperature indicator on indoor unit displays indoor ambient temperature; When selecting " ⌂ " with remote controller, temperature indicator on indoor unit displays outdoor ambient temperature. 3s later it will return to the setting temprature or it depends on the other received signal within 3s.

Attention: When displaying the outdoor ambient, the displaying range is 32-99°F and 0-60°C.When it goes beyond the range, it keeps the threshold data (the smallest—0°C or 32°F and the largest 99°F or 60°C).

Warm tips: When operating buttons on the cover please make sure the cover is closed completely.

11. � / ⌂ button(This function is only available for some models)
Press this button to achieve the on and off of healthy and scavenging functions in operation status.Press this button for the first time to start scavenging function;LCD displays" ⌂ ".Press the button for the second time to start healthy and scavenging functions simultaneously;LCD displays" ⌂ "and " � " .Press this button for the third time to quit healthy and scavenging functions simultaneously. Press the button for the fourth time to start healthy function; LCD display" � " .Press this button again to repeat the operation above.

12. I FEEL button
Press this button once, to turn on the I FEEL function, then the figure of "I FEEL" will be displayed, after every press of other function button, every 200ms to send I FEEL once, after this function started,the remote control will send temperature to the main un it in every 10 minutes.When repress this button, this function will be turned off.When I FEEL function is turned on, the remote controller should be put within the area where indoor unit can receive the signal sent by the remote controller.

13. LIGHT button
Press this button at unit On or Off status,Light On and Light Off can be set up.After powered on, Light On is defaulted.

14. X-FAN button

Pressing X-FAN button in COOL or DRY mode,the icon ✿ is displayed and the indoor fan will continue operation for 2 minutes 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.

15. QUIET button

Press this button,the Quiet status is under the Auto Quiet mode (display" 🎧 " and "Auto"signal) and Quiet mode(display " 🎧 " singal) and Quiet OFF(there is no signal of " 🎧 " displayed),after powered on,the Quiet OFF is defaulted. Under the Quiet mode (Display " 🎧 "signal), the fan speed is not available.

16. SLEEP button

●Press this button, can select Sleep 1 (🌙1), Sleep 2 (🌙2),Sleep 3 (🌙3) and cancel the Sleep, circulate between these, after electrified, Sleep Cancel is defaulted.

●Sleep 1 is Sleep mode 1, in Cool, Dehumidify modes: sleep status after run for one hour, the main unit setting temperature will increase 1°C(1ºF~2ºF), 2 hours,setting temperature increased 2°C(3ºF~4ºF), the unit will run at this setting temperature; In Heat mode: sleep status after run for one hour, the setting temperature will decrease 1°C(1ºF~2ºF), 2 hours, setting temperature will decrease 2°C(3ºF~4ºF), then the unit will run at this setting temperature.

●Sleep 2 is sleep mode 2, that is air conditioner will run according to the presetting a group of sleep temperature curve.
In Cool mode:
(1) When setting the initial temperature 16~23°C(61ºF~74ºF), after turned on Sleep function, the temperature will be increased 1°C(1ºF~2ºF) in every hour,after 3°C(5ºF~6ºF) the temperature will be maintained, after 7hours,the temperature will be decreased 1°C(1ºF~2ºF), after that the unit will keep on running under this temperature;
(2) When setting the initial temperature 24~27°C(75ºF~81ºF), after turned on Sleep function, the temperature will be increased 1°C(1ºF~2ºF) in every hour,after 2°C(3ºF~4ºF) the temperature will be maintained, after 7hours,the temperature will be decreased 1°C(1ºF~2ºF) , after that the unit will keep on running under this temperature;
(3) When setting the initial temperature 28~29°C(82ºF~85ºF), after turned on Sleep function, the temperature will be increased 1°C(1ºF~2ºF) in every hour, after 1°C(1ºF~2ºF) the temperature will be maintained, after 7hours,the temperature will be decreased 1°C(1ºF~2ºF) , after that the unit will keep on running under this temperature;
(4) When setting the initial temperature 30°C(86ºF), under this temperature setting, after 7hours, the temperature will be decreased 1°C(1ºF~2ºF), after that the unit will keep on running under this temperature;
In Heat mode:
(1) Under the initial presetting temperature 16°C(61ºF), it will run under this setting temperature all along.
(2) Under the initial presetting temperature17~20°C(62ºF~68ºF), after Sleep function started up, the temperature will decrease 1°C(1ºF~2ºF) in every hour, after 1°C(1ºF~2ºF) decreased, this temperature will be maintained.
(3) Under the initial presetting temperature 21~27°C(69ºF~81ºF), after Sleep function started up, the temperature will decrease 1°C(1ºF~2ºF) in every hour,after 2°C(3ºF~4ºF) decreased, this temperature will be maintained.
(4) Under the initial presetting temperature 28~30°C(82ºF~86ºF), after Sleep function started up, the temperature will decrease 1°C(1ºF~2ºF) in every hour, after 3°C(5ºF~6ºF) decreased, this temperature will be maintained.

●Sleep 3- the sleep curve setting under Sleep mode by DIY:

(1) Under Sleep 3 mode, press "Turbo" button for a long time, remote control enters into user individuation sleep setting status, at this time, the time of remote control will display "1hour ", the setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink (The first entering will display according to the initial curve setting value of original factory);

(2) Adjust "+" and "-" button, could change the corresponding setting temperature, after adjusted, press "Trubo "button for confirmation;

(3) At this time, 1hour will be automatically increased at the timer postion on the remote control, (that are "2hours" or "3hours" or "8hours "), the place of setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink;

(4) Repeat the above step (2)~(3) operation, until 8hours temperature setting finished, sleep curve setting finished, at this time, the remote control will resume the original timer display;temperature display will resume to original setting temperature.

●Sleep3- the sleep curve setting under Sleep mode by DIY could be inquired:

The user could accord to sleep curve setting method to inquire the presetting sleep curve, enter into user individuation sleep setting status, but do not change the temperature, press "Turbo" button directly for confirmation.

Note: In the above presetting or enquiry procedure, if continuously within10s, there is no button pressed, the sleep curve setting status will be automatically quit and resume to display the original displaying. In the presetting or enquiry procedure, press "ON/OFF" button, "Mode" button, "Timer" button or "Sleep" button, the sleep curve setting or enquiry status will quit similarly.

17. About X-FAN function

This function indicates that moisture on evaporator of indoor unit will be blowed after the unit is stopped to avoid mould.

(1)Having set X-FAN function on: After turning off the unit by pressing ON/OFF button indoor fan will continue running for about 2 min. at low speed. In this period, press X-FAN button to stop indoor fan directly.

(2)Having set X-FAN function off: After turning off the unit by pressing ON/OFF button, the complete unit will be off directly.

18. About AUTO RUN

When AUTO RUN mode is selected, the setting temperature will not be displayed on the LCD, the unit will be in accordance with the room temp. automatically to select the suitable running method and to make ambient comfortable.

19. About turbo function

If start this function, the unit will run at super-high fan speed to cool or heat quickly so that the ambient temp. approachs the preset temp. as soon as possible.

20. About lock

Press + and - buttons simultaneously to lock or unlock the keyboard. If the remote controlleris locked, the icon 🔒 will be displayed on it, in which case, press any button, the mark will flicker for three times. If the keyboard is unlocked, the mark will disappear.

21. About swing up and down

(1)Press swing up and down button continuously more than 2s,the main unit will swing back and forth from up to down, and then loosen the button, the unit will stop swinging and present position of guide louver will be kept immediately.

(2)Under swing up and down mode, when the status is switched from off to ⫰▌ , if press this button again 2s later, ⫰▌ status will switch to off status directly; if press this button again within 2s,the change of swing status will also depend on the circulation sequence stated above.

22. About swing left and right

(1)Press swing left and right button continuously more than 2s,the main unit will swing back and forth from left to right, and then loosen the button, the unit will stop swinging and present position of guide louver will be kept immediately.

(2)Under swing left and right mode, when the status is switched from off to 〲 , if press this button again 2s later, 〲 status will switch to off status directly; if press this button again within 2s,the change of swing status will also depend on the circulation sequence stated above.

23. About switch between Fahrenheit and Centigrade

Under status of unit off, press MODE and - buttons simultaneously to switch °C and °F.

24. Combination of " TEMP" and "CLOCK" buttons : About Energy-saving Function

Press "TEMP" and "CLOCK" simultaneously in COOL mode to start energy-saving function.Nixie tube on the remote controller displays "SE". Repeat the operation to quit the function.

25. Combination of " TEMP" and "CLOCK" buttons : About 8°C(46ºF) Heating Function

Press "TEMP" and "CLOCK" simultaneously in HEAT mode to start 8°C(46ºF) Heating Function.Nixie tube on the remote controller displays" Ⓢ "and a selected temperature of "8°C" (46°F if Fahrenheit is adopted). Repeat the operation to quit the function.

26. About Auto Quiet function

When auto quiet function is selected:

(1)Under cooling mode: indoor fan operates at notch 4 speed. 10 minutes later or when indoor ambient temperature≤28°C(82ºF), indoor fan will operate at notch 2 speed or quiet mode according to the comparison between indoor ambinet temperature and set temperature.

(2)Under heating mode: indoor fan operates at notch 3 speed or quiet mode according to the comparison between indoor ambient temperature and set temperature.

(3)Under dry, fan mode: indoor fan operates at quiet mode.

(4)Under auto mode: the indoor fan operates at the auto quiet mode according to actual cooling, heating or fan mode.

27. About Sleep function

Under the Fan and Auto mode, the Sleep function cannot be set up, under Dehumidify mode, only Sleep 1 can be selected.Select and enter into any kind of Sleep mode, the Quiet function will be attached and stared, different Quiet status could be optional and turned off.

28.WIFI Function

Press "MODE" and "TURBO" button simultaneously to turn on or turn off WIFI function. When WIFI function is turned on, the " **WiFi** " icon will be displayed on remote controller; Long press "MODE" and "TURBO" buttons simultaneously for 10s, remote controller will send WIFI reset code and then the WIFI function will be turned on. WIFI function is defaulted ON after energization of the remote controller.(This function only applicable for some models.)
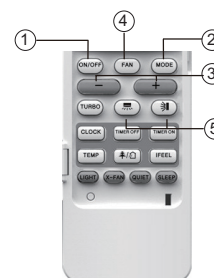
29.Dry Contact function

Interface of dry contact device is provided, while the dry contact device shall be prepared and installed by the customer.
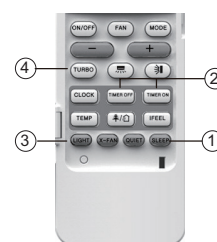● This function is only available for some models.

Operation Guide

1. General operation
(1)After powered on, press ON/OFF button, the unit will start to run. (Note: When it is powered on, the guide louver of main unit will close automatically.)
(2)Press MODE button, select desired running mode.
(3)Pressing + or - button, to set the desired temperature (It is unnecessary to set the temp. at AUTO mode.)
(4)Pressing FAN button, set fan speed, can select AUTO FAN,LOW, MEDIUM-LOW, MEDIUM, MEDIUM-HIGH and HIGH.
(5)Pressing and button, to select the swing.

2. Optional operation
(1)Press SLEEP button, to set sleep.
(2)Press TIMER ON and TIMER OFF button, can set the scheduled timer on or timer off.
(3)Press LIGHT button, to control the on and off of the displaying part of the unit (This function may be not available for some units).
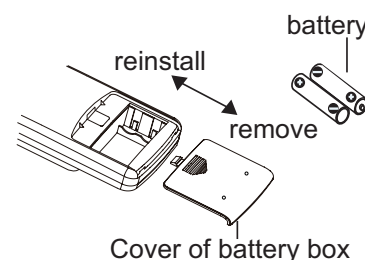(4)Press TURBO button, can realize the ON and OFF of TURBO function.

Replacement of Batteries in Remote Controller

1. Press the back side of remote controller marked with "≣ ",as shown in the fig,and then push out the cover of battery box along the arrow direction.
2. Replace two 7# (AAA 1.5V) dry batteries, and make sure the position of "+" polar and "-" polar are correct.
3. Reinstall the cover of battery box.

Note:
● During operation, point the remote control signal sender at the receiving window on indoor unit.
● The distance between signal sender and receiving window should be no more than 8m, and there should be no obstacles between them.
● Signal may be interfered easily in the room where there is fluorescent lamp or wireless telephone; remote controller should be close to indoor unit during operation.
● Replace new batteries of the same model when replacement is required.
● When you don't use remote controller for a long time, please take out the batteries.
● If the display on remote controller is fuzzy or there's no display, please replace batteries.

battery

reinstall

remove

Cover of battery box

Technical Information

6.2 GREE+ App Operation Manual
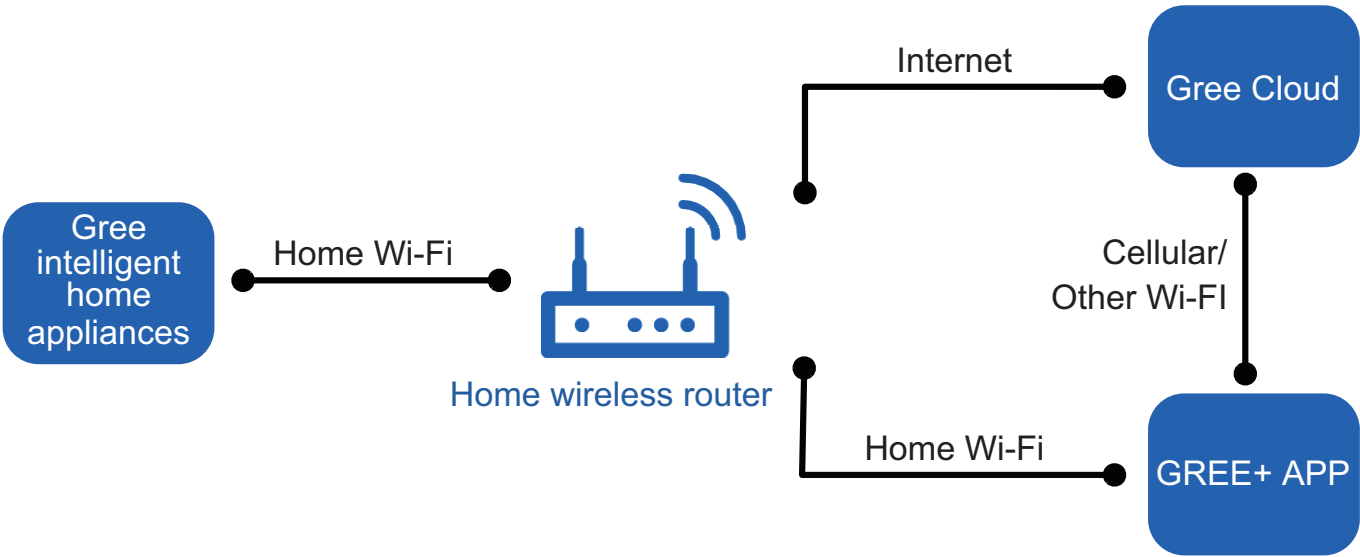
Control Flow Chart

Operating Systems

Requirement for User's smart phone:

iOS system
Support iOS7.0 and above version

Android system
Support Android 4.4 and above version

Download and installation

GREE+ App Download Linkage

Scan the QR code or search "GREE+" in the application market to download and install it. When "GREE+" App is installed, register the account and add the device to achieve long-distance control and LAN control of Gree smart home appliances.
For more information, please refer to "Help" in App.

Technical Information

6.3 Ewpe Smart App Operation Manual
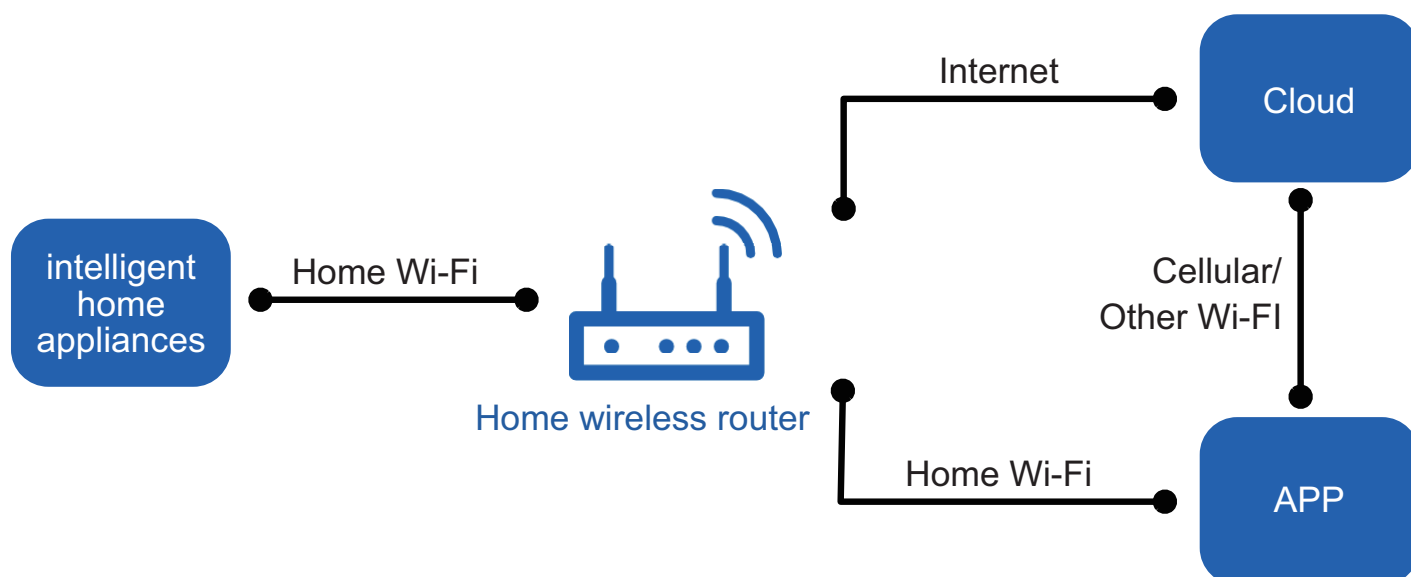
Control Flow Chart

Operating Systems

Requirement for User's smart phone:

iOS system
Support iOS7.0 and
above version

Android system
Support Android 4.4 and
above version

Download and installation

App Download Linkage

Scan the QR code or search "Ewpe Smart" in the application market to download and install it. When "Ewpe Smart" App is installed, register the account and add the device to achieve long-distance control and LAN control of smart home appliances.
For more information, please refer to "Help" in App.

Technical Information

6.4 Brief Description of Modes and Functions

1. Temperature Parameters
◆ Indoor preset temperature (T_{preset})
◆ Indoor ambient temperature ($T_{amb.}$)

2. Basic Functions

Once energized, in no case should the compressor be restarted within less than 3 minutes. In the situation that memory function is available, for the first energization, if the compressor is at stop before de-energization, the compressor will be started without a 3-minute lag; if the compressor is in operation before de-energization, the compressor will be started with a 3-minute lag; and once started, the compressor will not be stopped within 6 minutes regardless of changes in room temperature.

(1)Cooling Mode

① The condition and process of cooling

If $T_{amb.} \geq T_{preset}$ cooling mode will act, the compressor and outdoor fan will run, and the indoor fan will run at the set speed.

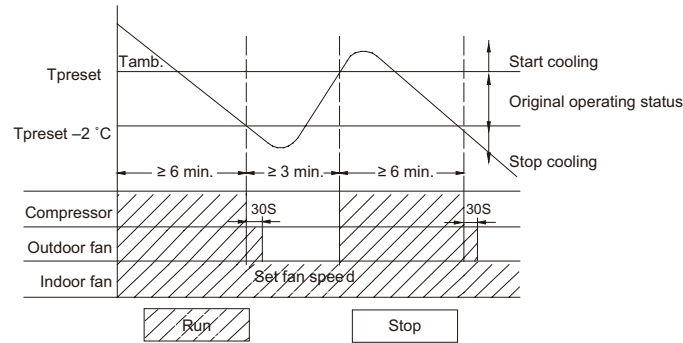If $T_{amb.} \leq T_{preset}-2°C(3.6°F)$, the compressor will stop, the outdoor fan will delay 30 seconds to stop, and the indoor fan will run at the set speed.

If $T_{preset}-2°C(3.6°F)<T_{amb.}<T_{preset}$, the unit will keep running in the previous mode.

When $0 \leq T_{preset}-T_{amb.} < 2°C(3.6°F)$, if indoor fan speed is high, it will turn to medium fan speed; if indoor fan speed is medium or low, it will keep the same;(this condition will be valid only when the compressor is operating); if indoor fan speed is super high, it will keep the same;

When $T_{amb.}-T_{preset} \geq 1°C(1.8°F)$, the fan speed will return to set fan speed;

In this mode, the reversal valve will not be powered on and the temperature setting range is 16~30°C(68~86°F).


② Protection function

◆ Overcurrent protection

If total current is high, the compressor will run in limited frequency. If total current is too high , the compressor will stop, the outdoor fan will delay 30 seconds to stop, indoor unit will display E5 and out door yellow light will blink 5 times.

◆ Antifreezing protection

When the antifreezing protection is detected, the compressor will stop, the outdoor fan will stop after 30 seconds, and the indoor fan and swing motor will keep running in the original mode. When antifreezing protection is eliminated and the compressor has stopped for 3 minutes, the compressor will resume running in the original mode.
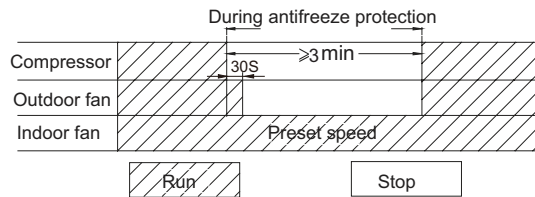
(2) Dehumidifying Mode

① Working conditions and process of dehumidifying

If $T_{amb.}>T_{preset}$, the unit will enter cooling and dehumidifying mode, in which case the compressor and the outdoor fan will operate and the indoor fan will run at low speed.

If $T_{preset}-2°C(3.6°F) \leq T_{amb.} \leq T_{preset}$, the compressor remains at its original operation state.

If $T_{amb.}< T_{preset}-2°C(3.6°F)$, the compressor will stop, the outdoor fan will stop with a time lag of 30s, and the indoor fan will operate at low speed.

② Protection function

Protection is the same as that under the cooling mode.

(3) Heating Mode

① The condition and process of heating

If $T_{amb.} \leq T_{preset}+2°C(3.6°F)$, heating mode will act, the compressor, outdoor fan and reversal valve will run, the indoor fan will delay 3min to stop at the latest

If $T_{preset}+2°C(3.6°F)<T_{amb.}<T_{preset}+5°C(9°F)$,the unit will keep running in the original mode.

If $T_{amb.} \geq T_{preset}+5°C(9°F)$, the compressor will stop, the outdoor fan will delay 30s to stop and indoor fan will blow 60s at low speed, the fan speed cannot be shifted within blow residual heat.

◆ In this mode, the temperature setting range is 16 ~30°C(68~86°F).

◆ The air conditioner will adjust the running frequency of the compressor automatically according to the change of ambient temperature.

◆ When the unit is turned off in heating mode, or switched to other mode from heating mode, the four-way valve will be powered off after the compressor stops.

◆ When compressor is running (not including each malfunction and protection):

a.When outdoor ambient temperature≥20°C(68°F) and indoor fan speed is low or medium, the fan speed will turn to high; if indoor fan speed is high or super high, it will keep the same.

b.When outdoor ambient temperature≤18°C(64.4°F) , the fan speed will resume set fan speed.

c. When 18°C<outdoor ambient temperature<20°C(68F), it will run at present fan speed (set fan speed or high fan speed); but when first exiting cold air prevention after entering heating mode, it will run in set fan speed.
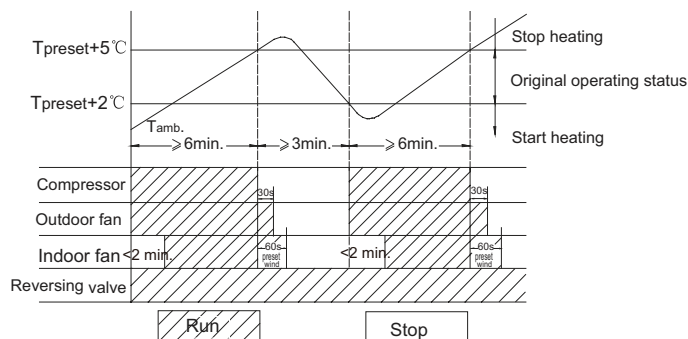
② Condition and process of defrost

When duration of successive heating operation is more than 45 minutes, or accumulated heating time more than 90 minutes, and one of the following conditions is reached, the unit will enter the defrost mode after 3 minutes.

(1). T outdoor ambient > 5°C(41°F), T outdoor tube≤-2°C(28.4°F);

(2) 0°C≤T outdoor ambient < 5°C(41°F), T outdoor tube≤-6°C(21.2°F);

(3) -5°C≤T outdoor ambient < 0°C(32°F), T outdoor tube-T compensatory ≤ (T outdoor ambient-5°C(23°F)),T outdoor tube≤-6°C(21.2°F);

(4)-10°C≤T outdoor ambient < -5°C(23°F); T outdoor tube-T compensatory ≤ (T outdoor ambient-5°C(23°F))

(5)T outdoor ambient < -10°C(14°F), T outdoor tube-T compensatory ≤ (T outdoor ambient-5°C(23°F))

(after energizing, T compensatory=0°C(32°F) during the first defrosting; if it is not the first defrosting, T compensatory is confirmed by T outdoor tube of quitting last defrosting: a. when T outdoor tube > 2°C(35.6°F), T compensatory=0°C(32°F); b. when T outdoor tube ≤ 2°C(35.6°F), Tcompensatory=3°C(37.4°F))

At that time, the indoor fan stops and the compressor stops, and after 30 seconds the outer fan will stop, and then after 30 seconds,the four-way valve will stop. After 30 seconds, the compressor is initiated for raising the frequency to defrost frequency.When the compressor has operated under defrost mode for 7.5 minutes, or T outdoor ambient ≥ 10°C, the compressor will be converted to 46Hz operation. After 30 seconds, the compressor will stop. And after another 30 seconds, the four-way valve will be opened, and after 60 seconds, the compressor and the outer fan will be started, the indoor fan will run under preset cold air prevention conditions, and H1 will be displayed at temperature display area on the display panel. Defrost frequency is 70Hz.

③ Protection

◆ Cold air prevention

The unit is started under heating mode (the compressor is ON):

① In the case of T indoor amb. <24°C(75.2°F): if T tube≤40°C(104°F) and the indoor fan is at stop state, the indoor fan will begin to run at low speed with a time lag of 2 minutes. Within 2 minutes, if T tube>40°C(104°F) , the indoor fan also will run at low speed; and after 1-minute operation at low speed, the indoor fan will be converted to operation at preset speed. Within 1-minute low speed operation or 2-minute nonoperation,if T tube>42°C(107.6°F) , the fan will run at present speed.

② In the case of T indoor amb. ≥24°C(75.2°F): if T tube≤42°C(107.6°F), the indoor fan will run at low speed, and after one minute, the indoor fan will be converted to preset speed. Within one-minute low speed operation, if T tube>42°C(107.6°F), the indoor fan will be converted to preset speed.

Note: T indoor amb. indicated in ① and ② refers to, under initially heating mode, the indoor ambient temperature before the command to start the compressor is performed according to the program, or after the unit is withdrawn from defrost, the indoor ambient temperature before the defrost symbol is cleared.

(5) Fan Mode

Under the mode, the indoor fan will run at preset speed and the compressor, the outdoor fan, the four-way valve and the electric heater will stop.

Under the mode, temperature can be set within a range of 16~30°C(60.8~86°F).

(6)AUTO Mode

① Operation way of AUTO mode

a.When Tambient≥26°C(78.8°F), it will run in cooling mode. The implied set temperature is 25°C(77°F) (note: the set temperature sending to outdoor unit is 25°C(77°F)).

b.For heating and cooling unit, when Tambient≤22°C(71.6°F), it will run in heating mode. The implied set temperature is 20°C(68°F);

for cooling only unit, when Tambient≤22(71.6°F)°C, it will run in fan mode and the displayed set temperature is 25°C(77°F).

c.For heating and cooling unit, when 22°C(71.6°F)<Tindoor ambient<26°C(78.8°F) (for cooling only unit, 22°C(71.6°F)<Tindoor ambient<26°C)(78.8°F), it will keep the original running mode. If the unit is energized for the first time, it will run in fan mode.

② Protection

a. In cooling operation, protection is the same as that under the cooling mode;

b. In heating operation, protection is the same as that under the heating mode;

c. When ambient temperature changes, operation mode will be converted preferentially. Once started, the compressor willremain unchanged for at least 6 minutes.

(7)Common Protection Functions and Fault Display under COOL, HEAT, DRY and AUTO Modes

① Overload protection

T_{tube}: measured temperature of outdoor heat exchanger under cooling mode; and measured temperature of indoor heat exchanger under heating mode.

1) Cooling overload

a.If T tube≤52°C(125.6°F), the unit will return to its original operation state.

b.If T tube≥55°C(131°F), frequency rise is not allowed.

c.If T tube≥58°C(136.4°F), the compressor will run at reduced frequency.

d.If T tube≥62°C(143.6°F), the compressor will stop and the indoor fan will run at preset speed.

2) Heating overload

a.If T tube≤50°C(122°F), the unit will return to its original operation state.

b.If T tube≥53°C(127.4°F), frequency rise is not allowed.

c.If T tube≥56°C(132.8°F), the compressor will run at reduced frequency.

d.If T tube≥60°C(140°F), the compressor will stop and the indoor fan will blow residue heat and then stop.

② Exhaust temperature protection of compressor

If exhaust temperature≥98°C(208.4°F), frequency is not allowed to rise.

If exhaust temperature≥103°C(217.4°F), the compressor will run at reduced frequency.

If exhaust temperature≥110°C(230°F),, the compressor will stop.

If exhaust temperature≤90°C(194°F), and the compressor has stayed at stop for at least 3 minutes, the compressor will resume its operation.

③ Communication fault

If the unit fails to receive correct signals for durative 3 minutes, communication fault can be justified and the whole system will stop.

④ Module protection

Under module protection mode, the compressor will stop. When the compressor remains at stop for at least 3 minutes, the compressor will resume its operation. If module protection occurs six times in succession, the compressor will not be started again.

⑤ Overload protection

If temperature sensed by the overload sensor is over 115 , the compressor will stop and the outdoor fan will stop with a time lag of 30 seconds. If temperature is below 95 , the overload protection will be relieved.

⑥ DC bus voltage protection

If voltage on the DC bus is below 150V or over 420V, the compressor will stop and the outdoor fan will stop with a time lag of 30 seconds. When voltage on the DC bus returns to its normal value and the compressor has stayed at stop for at least 3 minutes, the compressor will resume its operation.

⑦ Faults of temperature sensors

Designation of sensors	Faults
Indoor ambient temperature	The sensor is detected to be open-circuited or short-circuited for successive 5 seconds
Indoor tube temperature	The sensor is detected to be open-circuited or short-circuited for successive 5 seconds
Outdoor ambient temperature	The sensor is detected to be open-circuited or short-circuited for successive 30 seconds
Outdoor tube temperature	The sensor is detected to be open-circuited or short-circuited for successive 30 seconds, and no detection is performed within 10 minutes after defrost begins.
Exhaust	After the compressor has operated for 3 minutes, the sensor is detected to be open-circuited or short-circuited for successive 30 seconds.
Overload	After the compressor has operated for 3 minutes, the sensor is detected to be open-circuited or short-circuited for successive 30 seconds.

3. Other Controls

(1) ON/OFF

Press the remote button ON/OFF: the on-off state will be changed once each time you press the button.

(2) Mode Selection:

Press the remote button MODE, then select and show in the following ways: AUTO, COOL, DRY, FAN, HEAT, AUTO.

(3) Temperature Setting Option Button

Each time you press the remote button TEMP+ or TEMP-, the setting temperature will be up or down by 1°C(1.8°F). Regulating Range: 16(60.8°F)~30°C(86°F), the button is useless under the AUTO mode.

(4) Time Switch

You should start and stop the machine according to the setting time by remote control.

(5) SLEEP State Control

1. In cooling mode:

1.1 When the initial set temperature is16-23°C(60.8~73.4°F),the temperature will rise 1°C(1.8°F) by every hour after sleep function is set;the temperature will not change after rising 3°C(5.4°F) ;after running for 7hours,the temperature will decrease1°C(1.8°F) and it will not change after that.

1.2 When the initial set temperature is 24-27°C(75.2~80.6°F),the temperature will rise 1°C(1.8°F) by every hour after sleep function is set; the temperature will not change after rising 2°C(3.6°F) ;after running for 7 hours, the temperature will decrease 1°C(1.8°F) and it will not change after that.

1.3 When the initial set temperature is 28-29°C(82.4~84.2°F),the temperature will rise 1°C(1.8°F) by every hour after sleep function is set; the temperature will not change after rising 1°C(1.8°F) ; after running for 7 hours, the temperature will decrease 1°C(1.8°F) and it will not change after that.

1.4 When the initial set temperature is 30°C(86°F) , the unit will keep on running at this temperature; after running for 7 hours, the temperature will decrease 1°C(1.8°F) and it will not change after that.

Relationship between set temperature and running time:

Initial Temp.	Running time(T)							
0(start)	1	2	3	4	5	6	7	8
16	17	18	19	19	19	19	18	18
17	18	19	20	20	20	20	19	19
18	19	20	21	21	21	21	20	20
19	20	21	22	22	22	22	21	21
20	21	22	23	23	23	23	22	22
21	22	23	24	24	24	24	23	23
22	23	24	25	25	25	25	24	24
23	24	25	26	26	26	26	25	25
24	25	26	26	26	26	26	25	25
25	26	27	27	27	27	27	26	26
26	27	28	28	28	28	28	27	27
27	28	29	29	29	29	29	28	28
28	29	29	29	29	29	29	28	28
29	30	30	30	30	30	30	29	29
30	30	30	30	30	30	30	29	29

2. In heating mode:

2.1 When the initial set temperature is 16°C(60.8°F), the unit will keep on running at this temperature;

2.2 When the initial set temperature is 17-20°C(62.6~68°F), the temperature will decrease 1°C(1.8°F) by every hour after sleep function is set; the temperature will not change after decreasing 1°C(1.8°F);

2.3 When the initial set temperature is 21-27°C(69.8~80.6°F), the temperature will decrease 1°C(1.8°F) by every hour after sleep function is set; the temperature will not change after decreasing 2°C(3.6°F);

2.4 When the initial set temperature is 28-30°C(82.4~86°F), the temperature will decrease 1°C(1.8°F) by every hour after sleep function is set; the temperature will not change after decreasing 3°C(5.4°F);

Relationship between set temperature and running time:

Initial Temp.	Running time(T)							
0(start)	1	2	3	4	5	6	7	8
16	16	16	16	16	16	16	16	16
17	16	16	16	16	16	16	16	16
18	17	17	17	17	17	17	17	17
19	18	18	18	18	18	18	18	18
20	19	19	19	19	19	19	19	19
21	20	19	19	19	19	19	19	19
22	21	20	20	20	20	20	20	20
23	22	21	21	21	21	21	21	21
24	23	22	22	22	22	22	22	22
25	24	23	23	23	23	23	23	23
26	25	24	24	24	24	24	24	24
27	26	25	25	25	25	25	25	25
28	27	26	25	25	25	25	25	25
29	28	27	26	26	26	26	26	26
30	29	28	27	27	27	27	27	27

(6) Indoor Fan Control

Indoor fan could be set at ultra-high, high, medium, low speed by wireless remote controller and operated as that speed.

Auto fan speed could be set as well, indoor fan will operate under auto fan speed as following:

1. Under heating mode: auto speed under heating or auto heating mode:

a. When $T_{amb.} \leq T_{preset}+1°C(1.8°F)$, indoor fan will operate at high speed;

b. When $T_{preset}+1°C(1.8°F)<T_{amb.}<T_{preset}+3°C(5.4°F)$, indoor fan will operate at medium speed;

c. When $T_{amb.} \geq T_{preset}+3°C(5.4°F)$, indoor fan will operate at low speed;

There should be at least 180s operation time during switchover of each speed.

2. Under cooling mode: auto speed under cooling or auto cooling mode:

a. When $T_{amb.} \geq T_{preset}+2°C(3.6°F)$, indoor fan will operate at high speed;

b. When $T_{preset}<T_{amb.}<T_{preset}+2°C(3.6°F)$, indoor fan will operate at medium speed;

c. When $T_{amb.} \leq T_{preset}$, indoor fan will operate at low speed

There should be at least 210s operation time during switchover of each speed.

(7) Buzzer Control

The buzzer will send a "Di" sound when the air conditioner is powered up or received the information sent by the remote control or there is a button input, the single tube cooler doesnt receive the remote control ON signal under the mode of heating mode.

(8) Auto button

If the controller is on, it will stop by pressing the button, and if the controller is off, it will be automatic running state by pressing the button, swing on and light on, and the main unit will run based on the remote control if there is remote control order.

(9) Up-and-Down Swinging Control

When power on, the up-and-down motor will firstly move the air deflector to o counter-clockwise, close the air outlet.

After starting the machine, if you dont set the swinging functi on, heating mode and auto-heating mode, the up-and-down air deflector will move to D clockwise; under other modes, the up-and-down air deflector will move to L1. If you set the swinging function when you start the machine, then the wind blade will swing between L and D. The air deflector has 7 swinging states: Location L, Location A, Location B, Location C, Location D, Location L to Location D, stop at any location between L-D (the included angle between L~D is the same).

The air deflector will be closed at 0 Location, and the swinging is effectual only on condition that setting the swinging order and the inner fan is running. The indoor fan and compressor may get the power when air deflector is on the default location.

Cooling angle: O(0°), L1, A1, B1, C1, D1

Heating angle: O(0°), L, A, B, C, D

(10) Display

① Operation pattern and mode pattern display

All the display patterns will display for a time when the power on, the operation indication pattern will display in red under standby status. When the machine is start by remote control, the indication pattern will light and display the current operation mode (the mode light includes: Cooling, heating and dehumidify). If you close the light key, all the display patterns will close.

② Double-8 display

According to the different setting of remote control, the nixie light may display the current temperature (the temperature scope is from 16°C (60.8°F)to 30°C(86°F)) and indoor ambient temperature. The set temperature displayed in auto cooling and fan mode is 25°C(77°F) and the set temperature displayed in auto heating mode is 20°C(68°F). Under heating mode, nixie tube displays H1 or heating indicator is off 0.5s and blinks 10s in defrosting.(If you set the fahrenheit temperature display, the nixie light will display according to fahrenheit temperature)(11) Protection function and failure display

E2: Freeze-proofing protection   E4: Exhausting protecti on   E5: Overcurrent protection   E6: Communication failure

F1: Indoor ambient sensor start and short circuit (continuously measured failure in 5s)

F2: Indoor evaporator sensor start and short circuit (continuously measured failure in 5s)

F3: Outdoor ambient sensor start and short circuit (continuously measured failure in 30s)

F4: Outdoor condenser sensor start and short circuit (continuously measured failure in 30s, and dont measure within 10 minutes after defrosted)

F5: Outdoor exhausting sensor start and short circuit (continuously measured failure in 30s after the compressor operated 3 minutes)

H3: Overload protection of compressor   H5: Module protection   PH: High-voltage protection   PL: Low-voltage protection

P1: Nominal cooling and heating test   P2: Maximum cooling and heating test

P3: Medium cooling and heating test   P0: Minimum cooling and heating test

(12) Drying Function

You may start or stop the drying function under the modes of cooling and dehumidify at the starting status (The modes of automatism, heating and air supply do not have drying function). When you start the drying function, after stop the machine by pressing the switch button, you should keep running the inner fans for 2 minutes under low air damper (The swing will operate as the D1 status within 2 minutes, and other load is stopped), then stop the entire machine; When you stop the drying function, press the switch button will stop the machine directly.When you start the drying function, operating the drying button will stop the inner fans and close the guide louver.

(13) Memory Function

When interrupting the power supply memory content: mode, swing function, light, set temperature and wind speed.

After interrupted the power supply, the machine will start when recovering the power according to the memory content automatically.
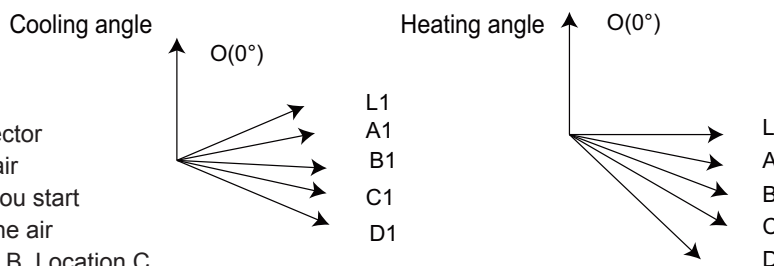
Part Ⅱ : Installation and Maintenance

7. Notes for Installation and Maintenance

Safety Precautions:
Important!

Please read the safety precautions carefully before installation and maintenance.
The following contents are very important for installation and maintenance.

Please follow the instructions below.

●The installation or maintenance must accord with the instructions.
●Comply with all national electrical codes and local electrical codes.
●Pay attention to the warnings and cautions in this manual.
●All installation and maintenance shall be performed by distributor or qualified person.
●All electric work must be performed by a licensed technician according to local regulations and the instructions given in this manual.
●Be caution during installation and maintenance. Prohibit incorrect operation to prevent electric shock, casualty and other accidents.

⚠ # Warnings

Electrical Safety Precautions:

1. Cut off the power supply of air conditioner before checking and maintenance.
2. The air condition must apply specialized circuit and prohibit share the same circuit with other appliances.
3. The air conditioner should be installed in suitable location and ensure the power plug is touchable.
4. Make sure each wiring terminal is connected firmly during installation and maintenance.
5. Have the unit adequately grounded. The grounding wire Can't be used for other purposes.
6. Must apply protective accessories such as protective boards, cable-cross loop and wire clip.
7. The live wire, neutral wire and grounding wire of power supply must be corresponding to the live wire, neutral wire and grounding wire of the air conditioner.
8. The power cord and power connection wires Can't be pressed by hard objects.
9. If power cord or connection wire is broken, it must be replaced by a qualified person.

10. If the power cord or connection wire is not long enough, please get the specialized power cord or connection wire from the manufacture or distributor. Prohibit prolong the wire by yourself.
11. For the air conditioner without plug, an air switch must be installed in the circuit. The air switch should be all-pole parting and the contact parting distance should be more than 3mm.
12. Make sure all wires and pipes are connected properly and the valves are opened before energizing.
13. Check if there is electric leakage on the unit body. If yes, please eliminate the electric leakage.
14. Replace the fuse with a new one of the same specification if it is burnt down; dont replace it with a cooper wire or conducting wire.
15. If the unit is to be installed in a humid place, the circuit breaker must be installed.

Installation Safety Precautions:

1. Select the installation location according to the requirement of this manual.(See the requirements in installation part)
2. Handle unit transportation with care; the unit should not be carried by only one person if it is more than 20kg.
3. When installing the indoor unit and outdoor unit, a sufficient fixing bolt must be installed; make sure the installation support is firm.
4. Ware safety belt if the height of working is above 2m.
5. Use equipped components or appointed components during installation.
6. Make sure no foreign objects are left in the unit after finishing installation.

Refrigerant Safety Precautions:

1. Avoid contact between refrigerant and fire as it generates poisonous gas; Prohibit prolong the connection pipe by welding.
2. Apply specified refrigerant only. Never have it mixed with any other refrigerant. Never have air remain in the refrigerant line as it may lead to rupture or other hazards.
3. Make sure no refrigerant gas is leaking out when installation is completed.
4. If there is refrigerant leakage, please take sufficient measure to minimize the density of refrigerant.
5. Never touch the refrigerant piping or compressor without wearing glove to avoid scald or frostbite.

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

Safety Precautions for Installing and Relocating the Unit:

To ensure safety, please be mindful of the following precautions.

⚠ # Warnings

1. When installing or relocating the unit, be sure to keep the refrigerant circuit free from air or substances other than the specified refrigerant.
Any presence of air or other foreign substance in the refrigerant circuit will cause system pressure rise or compressor rupture, resulting in injury.

2.When installing or moving this unit, do not charge the refrigerant which is not comply with that on the nameplate or unqualified refrigerant.
Otherwise, it may cause abnormal operation, wrong action, mechanical malfunction or even series safety accident.

3.When refrigerant needs to be recovered during relocating or repairing the unit, be sure that the unit is running in cooling mode.Then, fully close the valve at high pressure side (liquid valve).About 30-40 seconds later, fully close the valve at low pressure side (gas valve), immediately stop the unit and disconnect power. Please note that the time for refrigerant recovery should not exceed 1 minute.
If refrigerant recovery takes too much time, air may be sucked in and cause pressure rise or compressor rupture, resulting in injury.

4.During refrigerant recovery, make sure that liquid valve and gas valve are fully closed and power is disconnected before detaching the connection pipe.
If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure rise or compressor rupture, resulting in injury.

5.When installing the unit, make sure that connection pipe is securely connected before the compressor starts running.
If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure rise or compressor rupture, resulting in injury.

6.Prohibit installing the unit at the place where there may be leaked corrosive gas or flammable gas.
If there leaked gas around the unit, it may cause explosion and other accidents.

7.Do not use extension cords for electrical connections. If the electric wire is not long enough, please contact a local service center authorized and ask for a proper electric wire.
Poor connections may lead to electric shock or fire.

8.Use the specified types of wires for electrical connections between the indoor and outdoor units. Firmly clamp the wires so that their terminals receive no external stresses.
Electric wires with insufficient capacity, wrong wire connections and insecure wire terminals may cause electric shock or fire.

Safety Precautions for Refrigerant

●To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The used refrigerant is the fluoride R32,which is specially cleaned. The refrigerant is flammable and inodorous. Furthermore, it can leads to explosion under certain conditions. But the flammability of the refrigerant is very low. It can be ignited only by fire.

●Compared to common refrigerants, R32 is a nonpolluting refrigerant with no harm to the ozonosphere. The influence upon the greenhouse effect is also lower. R32 has got very good thermodynamic features which lead to a really high energy efficiency. The units therefore need a less filling.

WARNING:
●Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture. Should repair be necessary,contact your nearest authorized Service Centre. Any repairs carried out by unqualified personnel may be dangerous. The appliance shall be stored in a room without continuously operating ignition sources. (for example: open flames, an operating gas appliance or an operating electric heater.)

●Do not pierce or burn.

●Appliance shall be installed, operated and stored in a room with a floor area larger than Xm^2 .(Please refer to table "a" in section of " Safety Operation of Inflammable Refrigerant" for Space X.)

●Appliance filled with flammable gas R32. For repairs, strictly follow manufacturer's instructions only. Be aware that refrigrants not contain odour. Read specialist's manual.