

Service Manual

Models:GWH15QD-K6DNA1A
GWH21QE-K6DNA1A
GWH18QE-K6DNA1D
GWH24QE-K6DNA1D
GWH28QE-K6DNA1D
GWH15QD-K6DNC8A
GWH21QE-K6DNC8A
GWH18QE-K6DNC8D
GWH24QE-K6DNC8D
GWH28QE-K6DNC8D
(Refrigerant R32)

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Model list:

Model	Product Code	Indoor Unit	Product Code	Outdoor Unit	Product Code	Remote Controller
GWH15QD-K6DNC8A	CB456001500	GWH15QD-K6DNC8A/I	CB456N01500	GWH15QD-K6DNA1A/O	CB419W13200	YAC1FB4
GWH15QD-K6DNC8A	CB456001501	GWH15QD-K6DNC8A/I	CB456N01501			
GWH15QD-K6DNA1A	CB419013200	GWH15QD-K6DNA1A/I	CB419N13200	GWH21QE-K6DNA1A/O	CB419W13100	YAG1FB1
GWH21QE-K6DNA1A	CB419013100	GWH21QE-K6DNA1A/I	CB419N13100			
GWH21QE-K6DNC8A	CB456002000	GWH21QE-K6DNC8A/I	CB456N02000	GWH18QE-K6DNA1D/O	CB419W12700	
GWH18QE-K6DNA1D	CB419012700	GWH18QE-K6DNA1D/I	CB419N12700			
GWH18QE-K6DNC8D	CB456002100	GWH18QE-K6DNC8D/I	CB456N02100	GWH24QE-K6DNA1D/O	CB419W12900	
GWH24QE-K6DNA1D	CB419012900	GWH24QE-K6DNA1D/I	CB419N12900			
GWH24QE-K6DNC8D	CB456001400	GWH24QE-K6DNC8D/I	CB456N01400	GWH28QE-K6DNA1D/O	CB419W13000	
GWH24QE-K6DNC8D	CB456001401	GWH24QE-K6DNC8D/I	CB456N01401			
GWH28QE-K6DNA1D	CB419013000	GWH28QE-K6DNA1D/I	CB419N13000	GWH28QE-K6DNA1D/O	CB419W13000	
GWH28QE-K6DNC8D	CB456002200	GWH28QE-K6DNC8D/I	CB456N02200			

2. Specifications

2.1 Specification Sheet

Model			GWH18QE-K6DNA1D GWH18QE-K6DNC8D	
Product Code			CB419012700 CB456002100	
Power Supply	Rated Voltage	V~	220-240	
	Rated Frequency	Hz	50	
	Phases		1	
Power Supply Mode			Outdoor	
Cooling Capacity(Min~Max)		W	5200	
Heating Capacity(Min~Max)		W	5800	
Cooling Power Input(Min~Max)		W	1130	
Heating Power Input(Min~Max)		W	1340	
Cooling Power Current		A	10	
Heating Power Current		A	10.4	
Rated Input		W	2400	
Rated Current		A	12.4	
Air Flow Volume(SH/H/MH/M/ML/L/SL)		m ³ /h	1250/1150/1100/1000/900/850/-	
Dehumidifying Volume		L/h	1.8	
EER		W/W	4.6	
COP		W/W	4.32	
SEER			/	
SCOP			/	
Application Area		m ²	27-42	
Indoor Unit	Model of indoor unit		GWH18QE-K6DNA1D/I GWH18QE-K6DNC8D/I	
	Indoor Unit Product Code		CB419N12700 CB456N02100	
	Fan Type		Cross-flow	
	Diameter Length(DXL)		mm	Φ108X830
	Fan Motor Cooling Speed (SH/H/MH/M/ML/L/SL/SSL)		r/min	1200/1150/1100/1000/900/850/800/600
	Fan Motor Heating Speed (SH/H/MH/M/ML/L/SL)		r/min	1250/1150/1100/1000/900/850/800
	Output of Fan Motor		W	60
	Fan Motor RLA		A	0.24
	Fan Motor Capacitor		μF	/
	Evaporator Form			Aluminum Fin-copper Tube
	Pipe Diameter		mm	Φ7
	Row-fin Gap		mm	2-1.4
	Coil Length (LXDXW)		mm	845X25.4X342.9
	Swing Motor Model			MP35CJ
	Output of Swing Motor		W	2.5
	Fuse		A	3.15
	Sound Pressure Level (SH/H/MH/M/ML/L/SL)		dB (A)	47/46/44/41/38/36/29
	Sound Power Level (SH/H/MH/M/ML/L/SL)		dB (A)	57/56/54//51/48/46/39
	Dimension (WXHXD)		mm	1078X325X246
	Dimension of Carton Box (LXWXH)		mm	1145X410X335
	Dimension of Package (LXWXH)		mm	1148X413X350
Net Weight		kg	15.5	
Gross Weight		kg	19	

Outdoor Unit	Model of Outdoor Unit		GWH18QE-K6DNA1D/O
	Outdoor Unit Product Code		CB419W12700
	Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXF-B141zF030A
	Compressor Oil		68DA
	Compressor Type		Rotary
	L.R.A.	A	25
	Compressor RLA	A	6.5
	Compressor Power Input	W	1410
	Overload Protector		KSD115°C or HPC 115/95 or 1NT11L-6233
	Throttling Method		Electron expansion valve
	Operation temp	°C	16~30
	Ambient temp (cooling)	°C	-15~43
	Ambient temp (heating)	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7
	Rows-fin Gap	mm	2-1.4
	Coil Length (LXDXW)	mm	935X38.1X660
	Fan Motor Speed	rpm	800
	Output of Fan Motor	W	800
	Fan Motor RLA	A	0.49
	Fan Motor Capacitor	μF	/
	Air Flow Volume of Outdoor Unit	m ³ /h	3200
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ520
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	57/-/-
Sound Power Level (H/M/L)	dB (A)	67/-/-	
Dimension (WXHXD)	mm	963X700X396	
Dimension of Carton Box (LXWXH)	mm	1026X455X735	
Dimension of Package (LXWXH)	mm	1029X458X750	
Net Weight	kg	46	
Gross Weight	kg	51	
Refrigerant		R32	
Refrigerant Charge	kg	1.2	
Connection Pipe	Length	m	5
	Gas Additional Charge	g/m	40
	Outer Diameter Liquid Pipe	mm	Φ6
	Outer Diameter Gas Pipe	mm	Φ16
	Max Distance Height	m	10
	Max Distance Length	m	25
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			GWH15QD-K6DNA1A GWH15QD-K6DNC8A	
Product Code			CB419013200 CB456001500 CB456001501	
Power Supply	Rated Voltage	V~	220-240	
	Rated Frequency	Hz	50	
	Phases		1	
Power Supply Mode			Outdoor	
Cooling Capacity(Min~Max)		W	4600	
Heating Capacity(Min~Max)		W	4700	
Cooling Power Input(Min~Max)		W	1110	
Heating Power Input(Min~Max)		W	1150	
Cooling Power Current		A	5.12	
Heating Power Current		A	5.24	
Rated Input		W	2350	
Rated Current		A	10.68	
Air Flow Volume(SH/H/MH/M/ML/L/SL)		m ³ /h	900/800/-/700/-/600/-	
Dehumidifying Volume		L/h	1.8	
EER		W/W	4.14	
COP		W/W	4.09	
SEER			/	
SCOP			/	
Application Area		m ²	23-34	
Indoor Unit	Model of indoor unit		GWH15QD-K6DNA1A/I GWH15QD-K6DNC8A/I	
	Indoor Unit Product Code		CB419N13200 CB456N01500 CB456N01501	
	Fan Type		Cross-flow	
	Diameter Length(DXL)		mm	Φ106X706
	Fan Motor Cooling Speed (SH/H/MH/M/ML/L/SL/SSL)		r/min	1400/1300/1200/1100/1000/900/800/550
	Fan Motor Heating Speed (SH/H/MH/M/ML/L/SL)		r/min	1400/1270/1200/1130/1050/980/900
	Output of Fan Motor		W	60
	Fan Motor RLA		A	0.24
	Fan Motor Capacitor		μF	/
	Evaporator Form			Aluminum Fin-copper Tube
	Pipe Diameter		mm	Φ7
	Row-fin Gap		mm	2-1.4
	Coil Length (LXDXW)		mm	715X25.4X304.8
	Swing Motor Model			MP35CJ
	Output of Swing Motor		W	2.5
	Fuse		A	3.15
	Sound Pressure Level (SH/H/MH/M/ML/L/SL)		dB (A)	47/44/42/38/35/31/27
	Sound Power Level (SH/H/MH/M/ML/L/SL)		dB (A)	57/54/52/48/45/41/37
	Dimension (WXHXD)		mm	970X300X224
	Dimension of Carton Box (LXWXH)		mm	1038X380X305
Dimension of Package (LXWXH)		mm	1041X383X320	
Net Weight		kg	13.5	
Gross Weight		kg	16.5	

Outdoor Unit	Model of Outdoor Unit		GWH15QD-K6DNA1A/O	
	Outdoor Unit Product Code		CB419W13200	
	Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO. LTD.	
	Compressor Model		QXF-B141ZF030A	
	Compressor Oil		68DA	
	Compressor Type		Rotary	
	L.R.A.	A		25
	Compressor RLA	A		12.08
	Compressor Power Input	W		1440
	Overload Protector			1NT11L-6233orKSD115°C or HPC115/95U1
	Throttling Method			Electron expansion valve
	Operation temp	°C		16~30
	Ambient temp (cooling)	°C		-15~48
	Ambient temp (heating)	°C		-15~24
	Condenser Form			Aluminum Fin-copper Tube
	Pipe Diameter	mm		Φ7
	Rows-fin Gap	mm		2-1.4
	Coil Length (LXDXW)	mm		935X38.1X660
	Fan Motor Speed	rpm		820
	Output of Fan Motor	W		60
	Fan Motor RLA	A		0.49
	Fan Motor Capacitor	μF		/
	Air Flow Volume of Outdoor Unit	m ³ /h		3200
	Fan Type			Axial-flow
	Fan Diameter	mm		Φ520
	Defrosting Method			Automatic Defrosting
	Climate Type			T1
	Isolation			I
	Moisture Protection			IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa		4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa		2.5
	Sound Pressure Level (H/M/L)	dB (A)		56/-/-
Sound Power Level (H/M/L)	dB (A)		66/-/-	
Dimension (WXHXD)	mm		963X700X396	
Dimension of Carton Box (LXWXH)	mm		1026X455X735	
Dimension of Package (LXWXH)	mm		1029X458X750	
Net Weight	kg		46	
Gross Weight	kg		50.5	
Refrigerant			R32	
Refrigerant Charge	kg		1.1	
Connection Pipe	Length	m	5	
	Gas Additional Charge	g/m	16	
	Outer Diameter Liquid Pipe	mm	Φ6	
	Outer Diameter Gas Pipe	mm	Φ12	
	Max Distance Height	m	10	
	Max Distance Length	m	25	
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			GWH21QE-K6DNA1A GWH21QE-K6DNC8A
Product Code			CB419013100 CB456002000
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply Mode			Outdoor
Cooling Capacity(Min~Max)		W	6100
Heating Capacity(Min~Max)		W	7300
Cooling Power Input(Min~Max)		W	1506
Heating Power Input(Min~Max)		W	1802
Cooling Power Current		A	6.7
Heating Power Current		A	8
Rated Input		W	3400
Rated Current		A	/
Air Flow Volume(SH/H/MH/M/ML/L/SL)		m ³ /h	1450/1300/1050/950/850/800/700
Dehumidifying Volume		L/h	2
EER		W/W	4.05
COP		W/W	4.05
SEER			/
SCOP			/
Application Area		m ²	27-42
Indoor Unit	Model of indoor unit		GWH21QE-K6DNA1A/I GWH21QE-K6DNC8A/I
	Indoor Unit Product Code		CB419N13100 CB456N02000
	Fan Type		Cross-flow
	Diameter Length(DXL)		mm Φ108X830
	Fan Motor Cooling Speed (SH/H/MH/M/ML/L/SL/SSL)		r/min 1500/1300/1100/1000/900/850/800/600
	Fan Motor Heating Speed (SH/H/MH/M/ML/L/SL)		r/min 1500/1300/1100/1050/1000/900/850
	Output of Fan Motor		W 35
	Fan Motor RLA		A 0.16
	Fan Motor Capacitor		μF /
	Evaporator Form		Aluminum Fin-copper Tube
	Pipe Diameter		mm Φ7
	Row-fin Gap		mm 2-1.4
	Coil Length (LXDXW)		mm 845X25.4X342.9
	Swing Motor Model		MP35CJ
	Output of Swing Motor		W 2.5
	Fuse		A 3.15
	Sound Pressure Level (SH/H/MH/M/ML/L/SL(SSL))		dB (A) 52/48/44/40/38/36/34(27)
	Sound Power Level (SH/H/MH/M/ML/L/SL(SSL))		dB (A) 62/58/54/50/48/46/44(37)
	Dimension (WXHDXD)		mm 1078X325X246
	Dimension of Carton Box (LXWXH)		mm 1145X410X335
	Dimension of Package (LXWXH)		mm 1148X413X350
	Net Weight		kg 15.5
	Gross Weight		kg 19

Outdoor Unit	Model of Outdoor Unit		GWH21QE-K6DNA1A/O
	Outdoor Unit Product Code		CB419W13100
	Compressor Manufacturer/Trademark		ZHUHAI LINDA COMPRESSOR CO., LTD
	Compressor Model		QXFS-D23zX090D
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	L.R.A.	A	25
	Compressor RLA	A	11.50
	Compressor Power Input	W	2300
	Overload Protector		KSD115°C or HPC 115/95 or 1NT11L-6233
	Throttling Method		Electron expansion valve
	Operation temp	°C	16~30
	Ambient temp (cooling)	°C	-15~48
	Ambient temp (heating)	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7
	Rows-fin Gap	mm	2-1.4
	Coil Length (LXDXW)	mm	935X38.1X660
	Fan Motor Speed	rpm	800
	Output of Fan Motor	W	60
	Fan Motor RLA	A	0.58
	Fan Motor Capacitor	μF	/
	Air Flow Volume of Outdoor Unit	m ³ /h	3200
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ520
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5	
Sound Pressure Level (H/M/L)	dB (A)	57/-/-	
Sound Power Level (H/M/L)	dB (A)	67/-/-	
Dimension (WXHXD)	mm	963X700X396	
Dimension of Carton Box (LXWXH)	mm	1026X455X735	
Dimension of Package (LXWXH)	mm	1029X458X750	
Net Weight	kg	52	
Gross Weight	kg	56.5	
Refrigerant		R32	
Refrigerant Charge	kg	1.20	
Connection Pipe	Length	m	5
	Gas Additional Charge	g/m	40
	Outer Diameter Liquid Pipe	mm	Φ6
	Outer Diameter Gas Pipe	mm	Φ16
	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter.		

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

Outdoor Unit	Model of Outdoor Unit		GWH24QE-K6DNA1D/O
	Outdoor Unit Product Code		CB419W12900
	Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXFS-D23zX090D
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	L.R.A.	A	25
	Compressor RLA	A	16
	Compressor Power Input	W	2050
	Overload Protector		1NT11L-6233/HPC115/95/KSD115°C
	Throttling Method		Electron expansion valve
	Operation temp	°C	16~30
	Ambient temp (cooling)	°C	18~43
	Ambient temp (heating)	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7
	Rows-fin Gap	mm	3-1.5
	Coil Length (LXDXW)	mm	994X57.1X748
	Fan Motor Speed	rpm	800
	Output of Fan Motor	W	92
	Fan Motor RLA	A	0.65
	Fan Motor Capacitor	μF	/
	Air Flow Volume of Outdoor Unit	m ³ /h	4000
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ550
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	59/-/-
Sound Power Level (H/M/L)	dB (A)	71/-/-	
Dimension (WXHXD)	mm	1003X790X427	
Dimension of Carton Box (LXWXH)	mm	1080X485X840	
Dimension of Package (LXWXH)	mm	1083X488X855	
Net Weight	kg	64	
Gross Weight	kg	69	
Refrigerant		R32	
Refrigerant Charge	kg	2.0	
Connection Pipe	Length	m	5
	Gas Additional Charge	g/m	50
	Outer Diameter Liquid Pipe	mm	Φ6
	Outer Diameter Gas Pipe	mm	Φ16
	Max Distance Height	m	20
	Max Distance Length	m	30
	Note:The connection pipe applies metric diameter.		

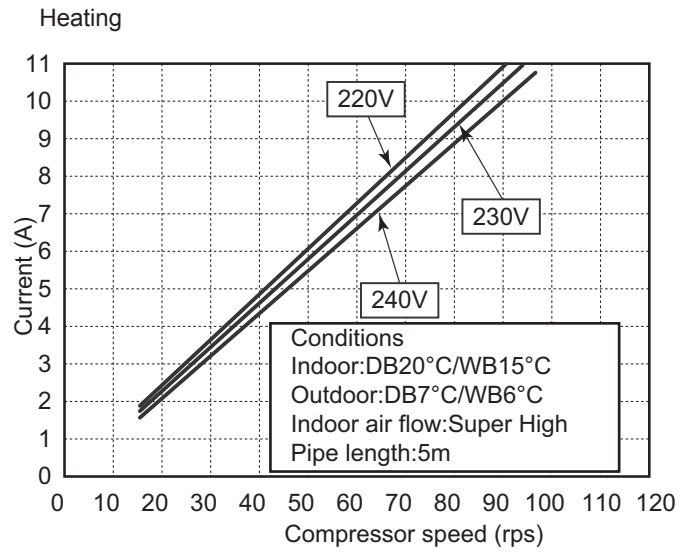
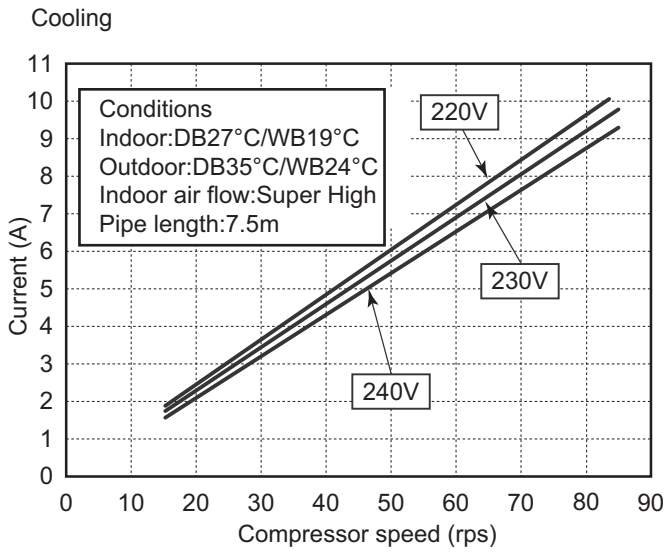
The above data is subject to change without notice; please refer to the nameplate of the unit.

Model			GWH28QE-K6DNA1D GWH28QE-K6DNC8D	
Product Code			CB419013000 CB456002200	
Power Supply	Rated Voltage	V~	220-240	
	Rated Frequency	Hz	50	
	Phases		1	
Power Supply Mode			Outdoor	
Cooling Capacity(Min~Max)		W	8000	
Heating Capacity(Min~Max)		W	9000	
Cooling Power Input(Min~Max)		W	2200	
Heating Power Input(Min~Max)		W	2550	
Cooling Power Current		A	9.0	
Heating Power Current		A	10.0	
Rated Input		W	3800	
Rated Current		A	17.5	
Air Flow Volume(SH/H/MH/M/ML/L/SL)		m ³ /h	1400/1200/1000/900/800/750/700	
Dehumidifying Volume		L/h	2.7	
EER		W/W	3.64	
COP		W/W	3.53	
SEER			/	
SCOP			/	
Application Area		m ²	35-52	
Indoor Unit	Model of indoor unit		GWH28QE-K6DNA1D/I GWH28QE-K6DNC8D/I	
	Indoor Unit Product Code		CB419N13000 CB456N02200	
	Fan Type		Cross-flow	
	Diameter Length(DXL)		mm	Φ108X830
	Fan Motor Cooling Speed (SH/H/MH/M/ML/L/SL/SSL)		r/min	1500/1300/1100/1000/900/850/800/600
	Fan Motor Heating Speed (SH/H/MH/M/ML/L/SL)		r/min	1500/1300/1100/1050/1000/900/850
	Output of Fan Motor		W	50
	Fan Motor RLA		A	0.48
	Fan Motor Capacitor		μF	/
	Evaporator Form			Aluminum Fin-copper Tube
	Pipe Diameter		mm	Φ7
	Row-fin Gap		mm	2-1.5
	Coil Length (LXDXW)		mm	850X25.4X342.9
	Swing Motor Model			MP35CJ
	Output of Swing Motor		W	2.5
	Fuse		A	3.15
	Sound Pressure Level (SH/H/MH/M/ML/L/SL(SSL))		dB (A)	53/49/44/41/38/36/34(28)
	Sound Power Level (SH/H/MH/M/ML/L/SL(SSL))		dB (A)	65/61/56/53/50/48/46(40)
	Dimension (WXHXD)		mm	1078X325X246
	Dimension of Carton Box (LXWXH)		mm	1145X410X335
	Dimension of Package (LXWXH)		mm	1148X413X350
	Net Weight		kg	16.5
	Gross Weight		kg	20

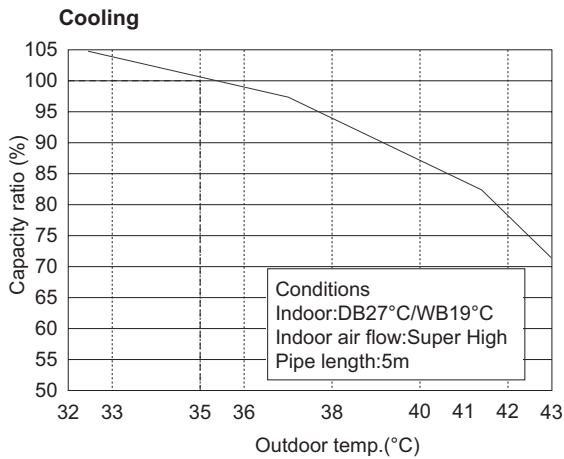
Outdoor Unit	Model of Outdoor Unit		GWH28QE-K6DNA1D/O
	Outdoor Unit Product Code		CB419W13000
	Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXFS-D23zX090D
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	L.R.A.	A	25
	Compressor RLA	A	16
	Compressor Power Input	W	2050
	Overload Protector		1NT11L-6233/HPC115/95/KSD115°C
	Throttling Method		Electron expansion valve
	Operation temp	°C	16~30
	Ambient temp (cooling)	°C	18~43
	Ambient temp (heating)	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7
	Rows-fin Gap	mm	3-1.5
	Coil Length (LXDXW)	mm	994X57.1X748
	Fan Motor Speed	rpm	800
	Output of Fan Motor	W	92
	Fan Motor RLA	A	0.65
	Fan Motor Capacitor	μF	/
	Air Flow Volume of Outdoor Unit	m ³ /h	4000
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ550
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5	
Sound Pressure Level (H/M/L)	dB (A)	59/-/-	
Sound Power Level (H/M/L)	dB (A)	71/-/-	
Dimension (WXHXD)	mm	1003X790X427	
Dimension of Carton Box (LXWXH)	mm	1080X485X840	
Dimension of Package (LXWXH)	mm	1083X488X855	
Net Weight	kg	64	
Gross Weight	kg	69	
Refrigerant		R32	
Refrigerant Charge	kg	2.0	
Connection Pipe	Length	m	5
	Gas Additional Charge	g/m	50
	Outer Diameter Liquid Pipe	mm	Φ6
	Outer Diameter Gas Pipe	mm	Φ16
	Max Distance Height	m	20
	Max Distance Length	m	30
	Note: The connection pipe applies metric diameter.		

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

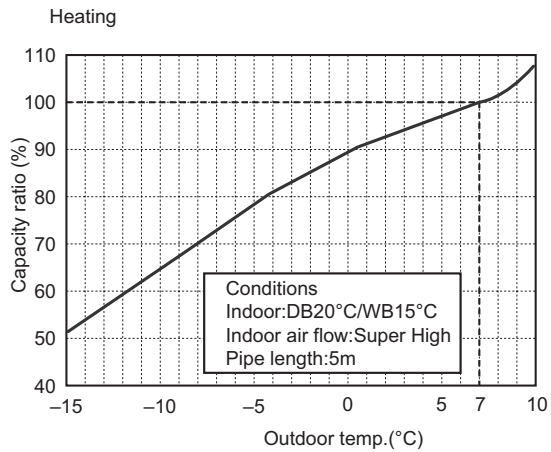
2.2 Operation Characteristic Curve



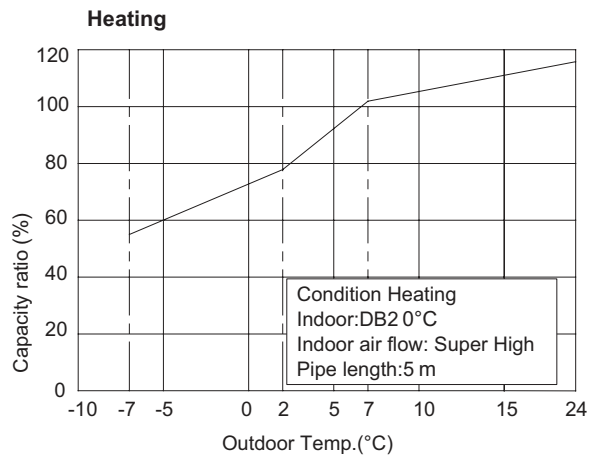
2.3 Capacity Variation Ratio According to Temperature



15K/18K/21K/24K

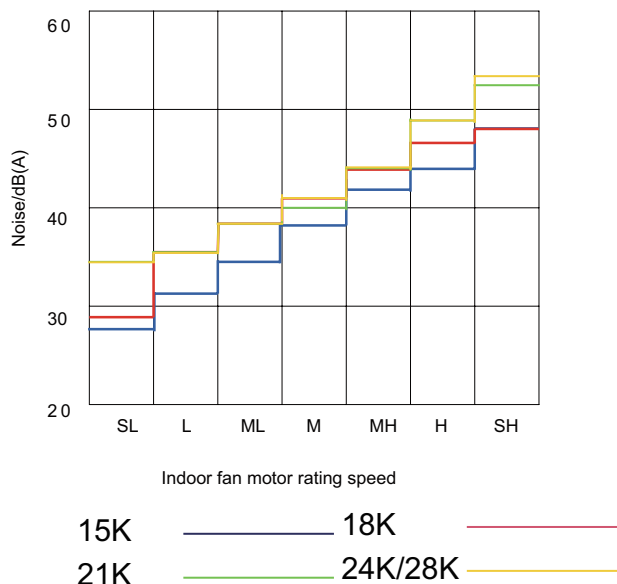


28K

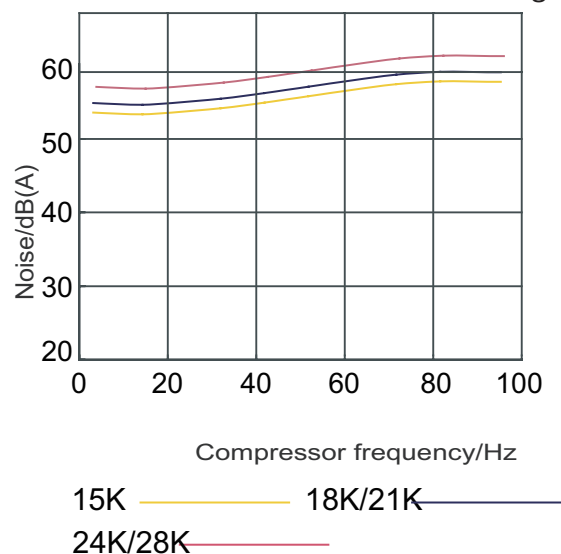


2.4 Noise Curve

Indoor side noise when blowing



Outdoor side noise when blowing



2.5 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 revolution (rps)
Indoor	Outdoor			T1 (°C)	T2 (°C)			
27/19	35/24	15K/18K	0.9~1.0	in:8~11 out:11~14	in:75~83 out:37~48	Super High	High	73
27/19	35/24	21K/24K	0.9~1.0	in:8~11 out:11~14	in:75~83 out:37~48	Super High	High	75
27/19	35/24	28K	0.9~1.0	in:8~11 out:11~14	in:75~83 out:37~48	Super High	High	80

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 revolution (rps)
Indoor	Outdoor			T1 (°C)	T2 (°C)			
20/15	7/6	15K/18K	2.2~2.4	in:75~83 out:37~45	in:1~3 out:2~6	Super High	High	73
20/15	7/6	21K/24K	2.2~2.4	in:75~83 out:37~45	in:1~3 out:2~6	Super High	High	75
20/15	7/6	28K	2.2~2.4	in:75~83 out:37~45	in:1~3 out:2~6	Super High	High	80

Instruction:

T1: Inlet and outlet pipe temperature of evaporator

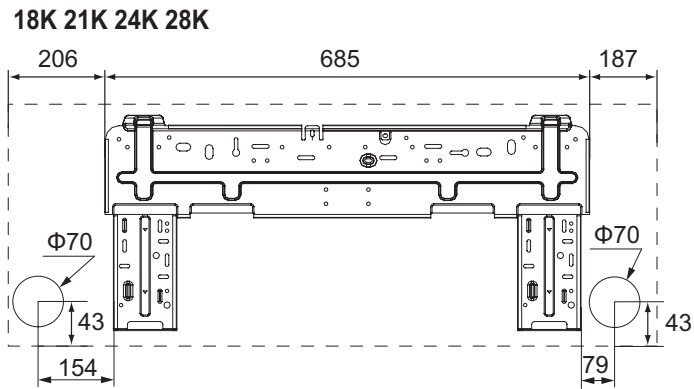
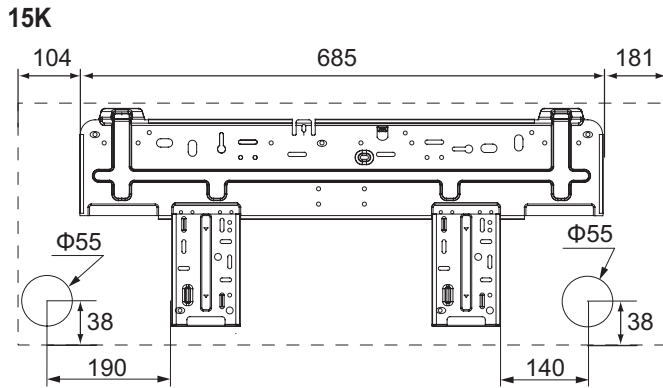
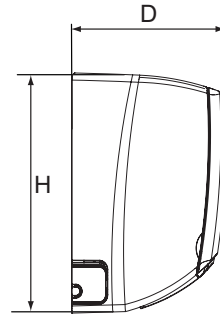
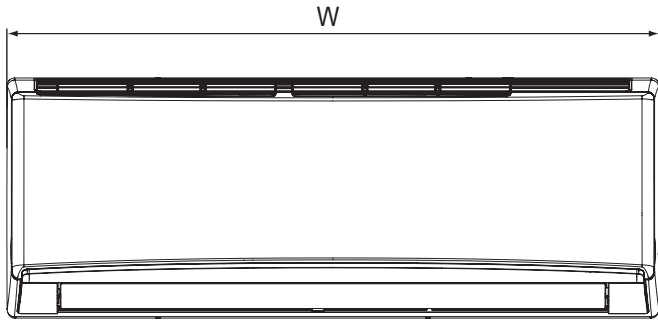
T2: Inlet and outlet pipe temperature of condenser

P: Pressure at the side of big valve

Connection pipe length:5m.

3. Outline Dimension Diagram

3.1 Indoor Unit

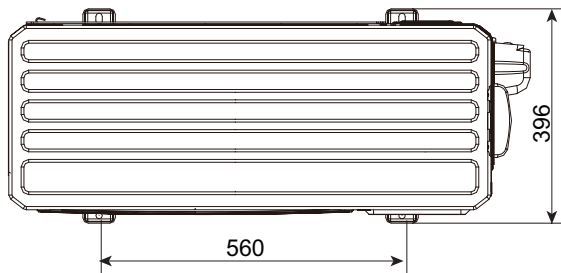
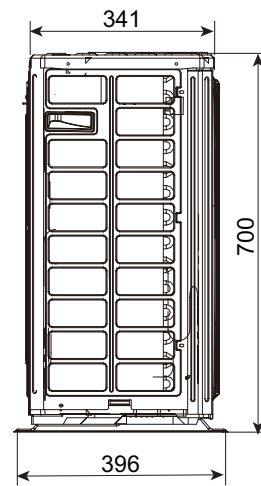
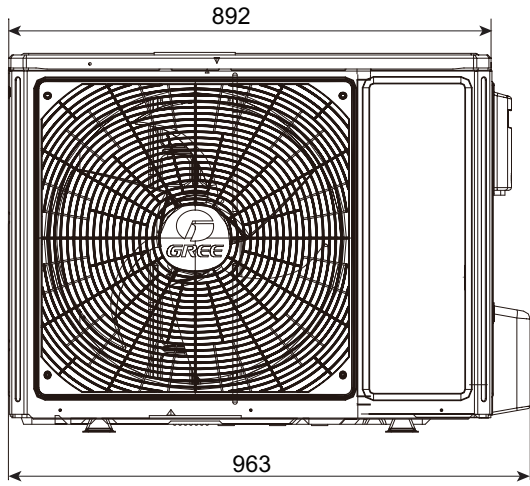


Unit:mm

Model	W	H	D
15K	970	300	224
18K 21K 24K 28K	1078	325	246

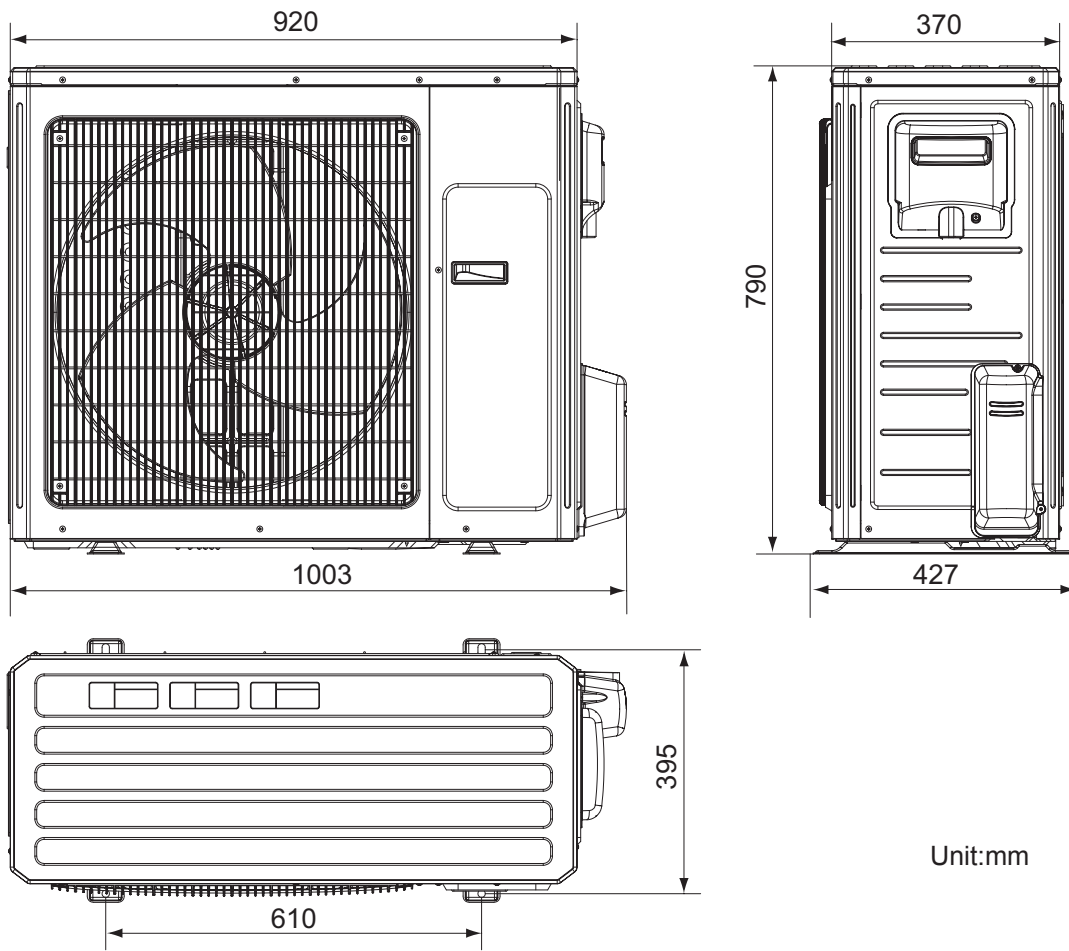
3.2 Outdoor Unit

GWH15QD-K6DNA1A/O GWH21QE-K6DNA1A/O GWH18QE-K6DNA1D/O



Unit:mm

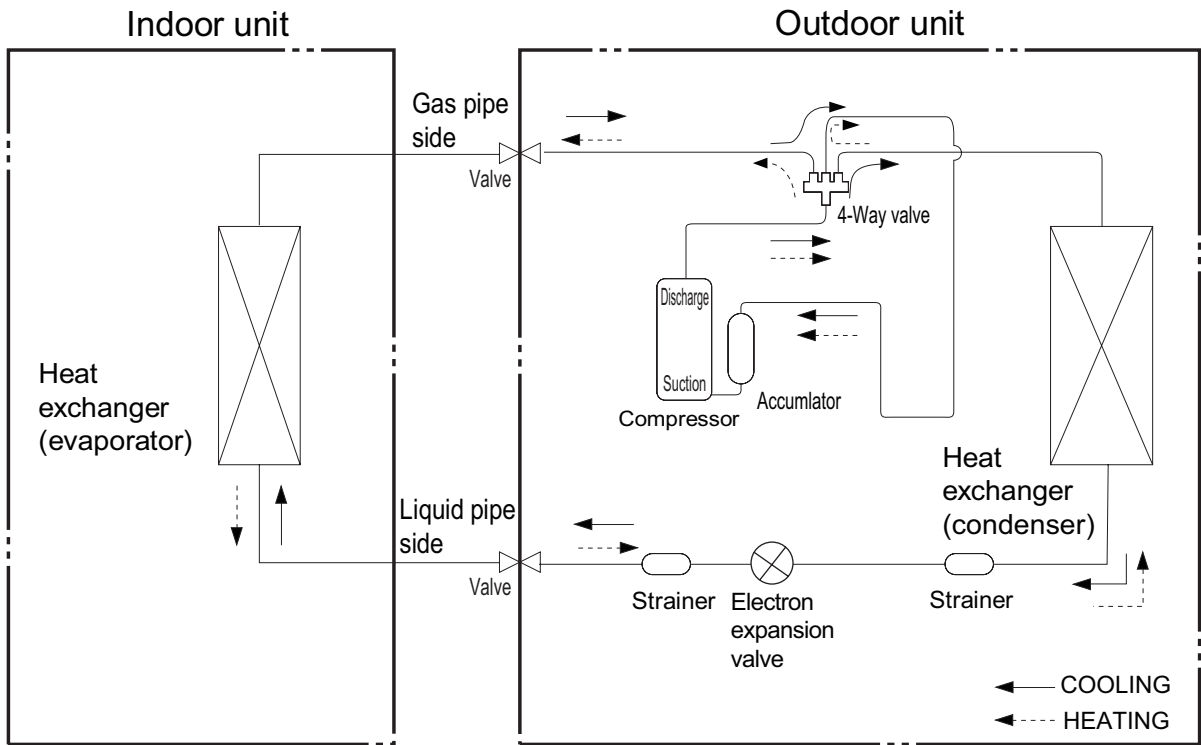
GWH24QE-K6DNA1D/O GWH28QE-K6DNA1D/O



Unit:mm

4. Refrigerant System Diagram

Cooling and heating model



Connection pipe specification:
 Liquid pipe: 1/4" (6mm)
 Gas pipe: 5/8" (16mm) 18K/21K/24K/28K
 Gas pipe: 5/8" (12mm) 15K

5. Electrical Part

5.1 Wiring Diagram

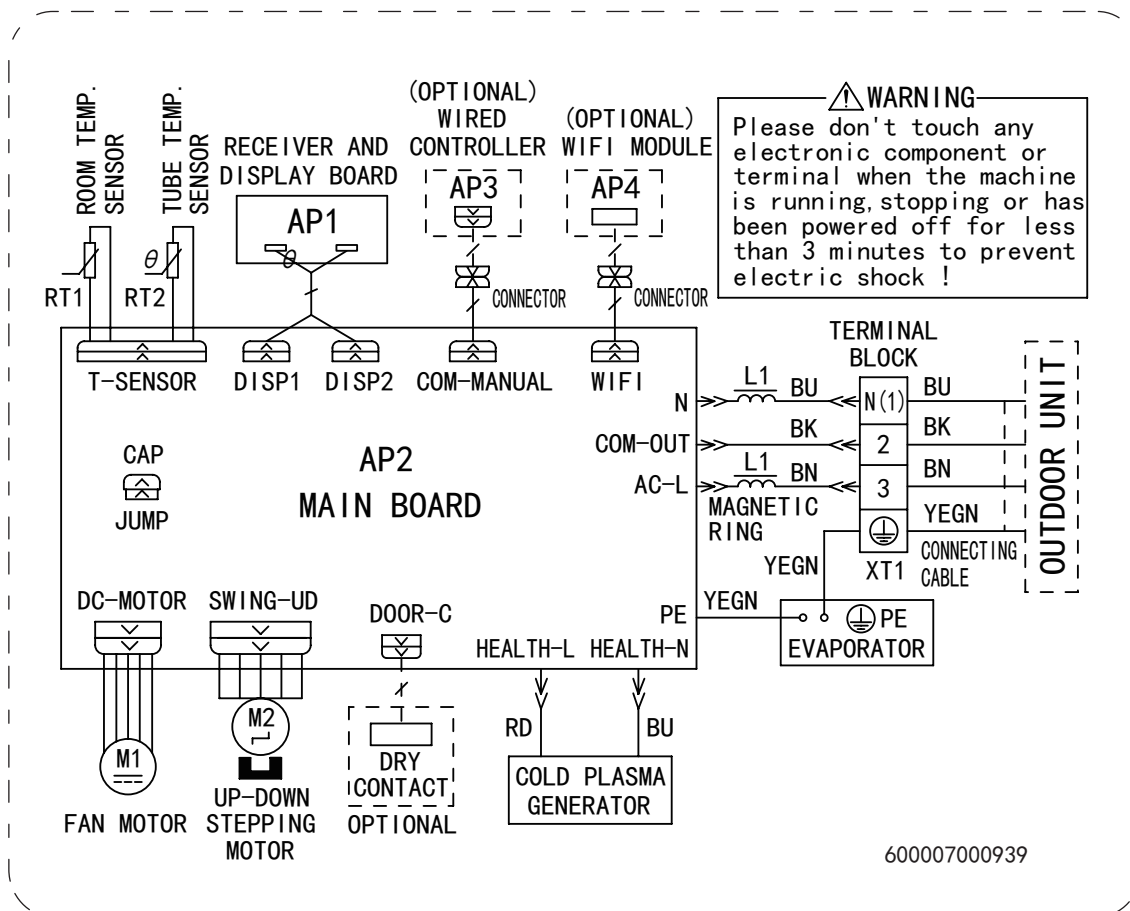
• Instruction

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

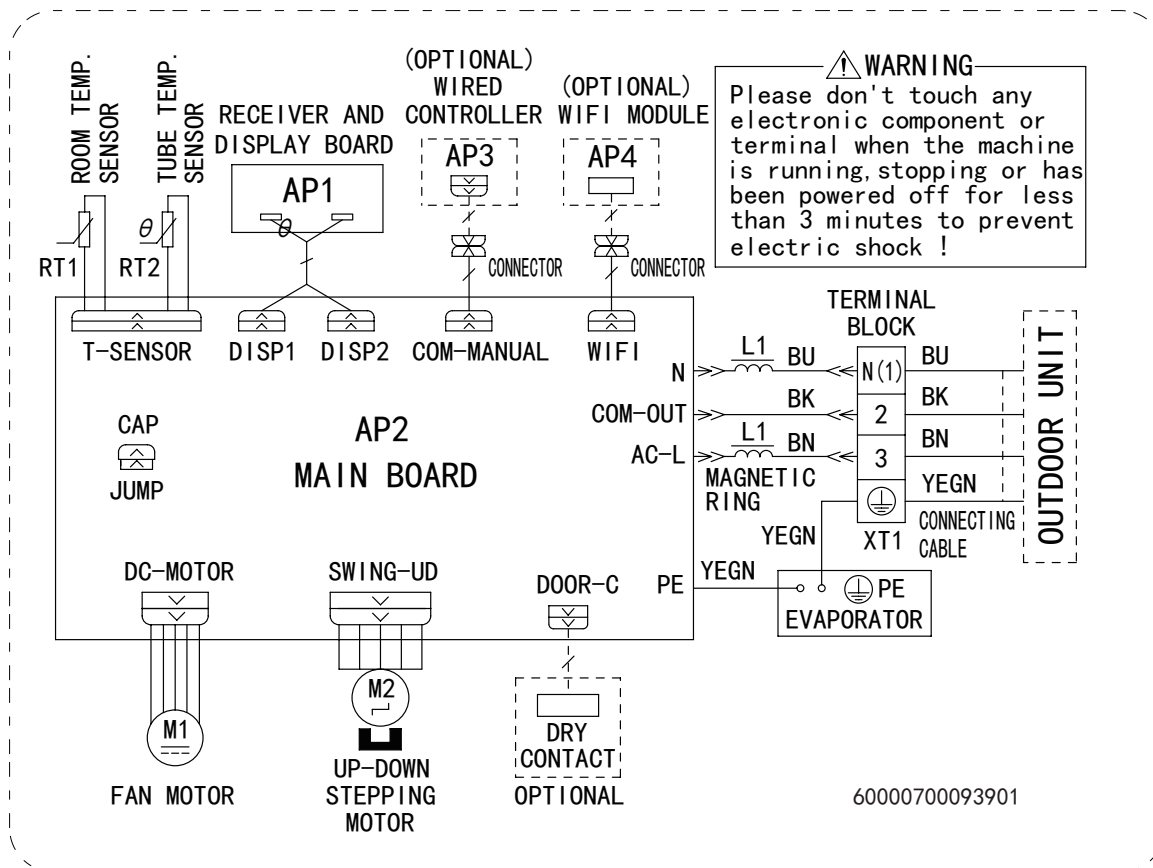
Note: Jumper cap is used to determine fan speed and the swing angle of horizontal lever for this model.

• Indoor Unit

GWH15QD-K6DNC8A/I (CB456N01500) GWH15QD-K6DNA1A/I (CB419N13200) GWH21QE-K6DNA1A/I (CB419N13100) GWH18QE-K6DNA1D/I (CB419N12700) GWH24QE-K6DNA1D/I (CB419N12900) GWH28QE-K6DNA1D/I (CB419N13000) GWH24QE-K6DNC8D/I (CB456N01400)

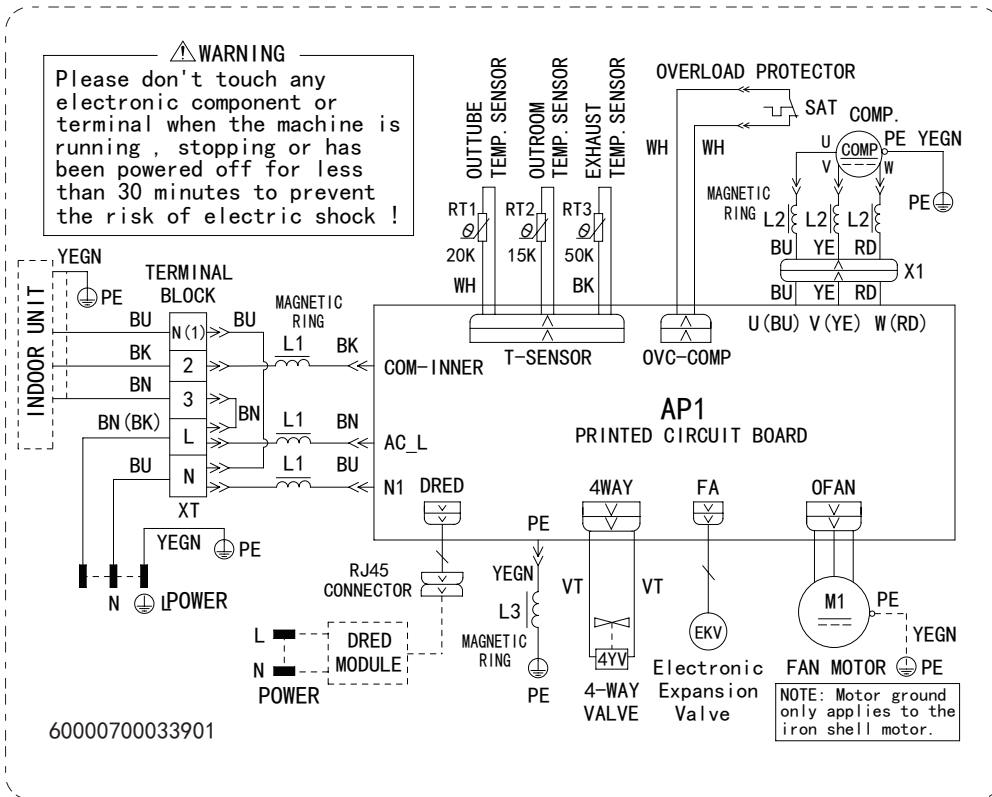


GWH15QD-K6DNC8A/I(CB456N01501) GWH21QE-K6DNC8A/I(CB456N02000) GWH28QE-K6DNC8D/I(CB456N02200)
 GWH18QE-K6DNC8D/I(CB456N02100) GWH24QE-K6DNC8D/I(CB456N01401)

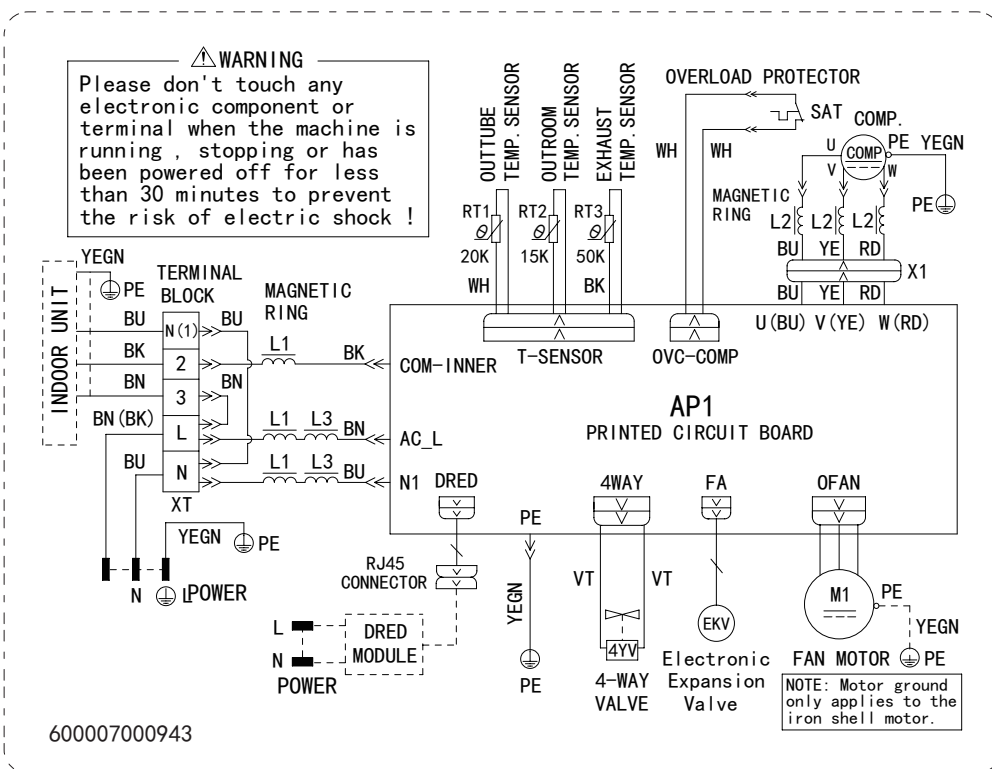


• Outdoor Unit

GWH15QD-K6DNA1A/O GWH21QE-K6DNA1A/O GWH28QE-K6DNA1D/O



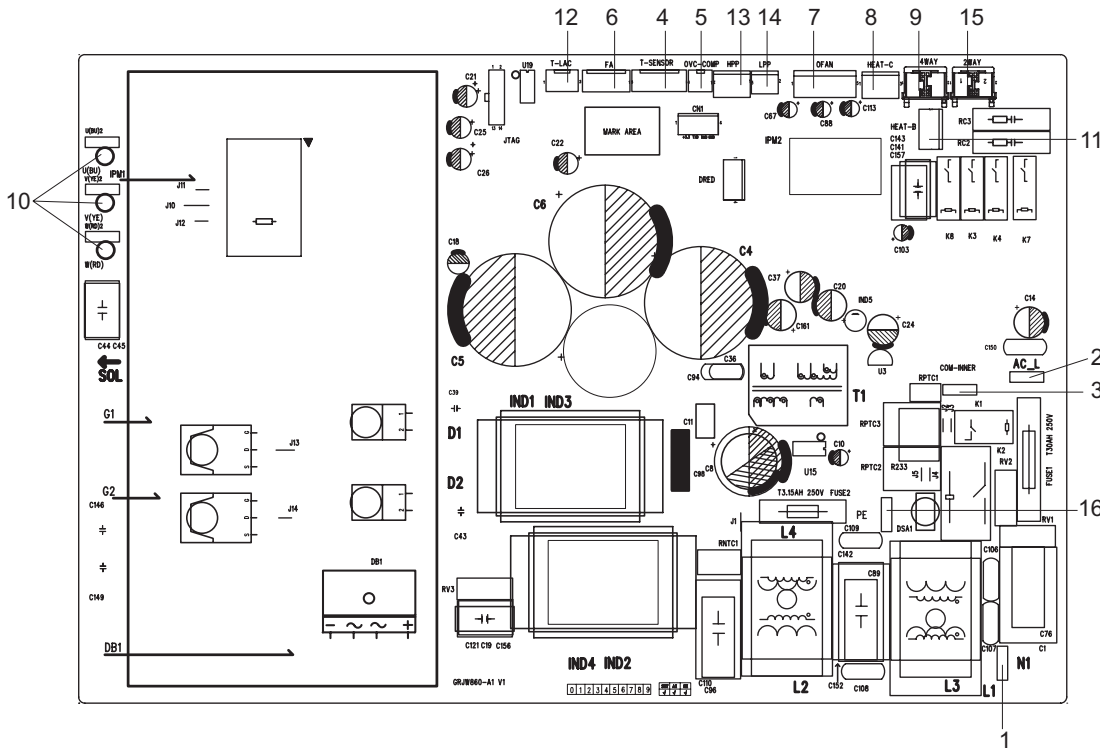
GWH18QE-K6DNA1D/O GWH24QE-K6DNA1D/O



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

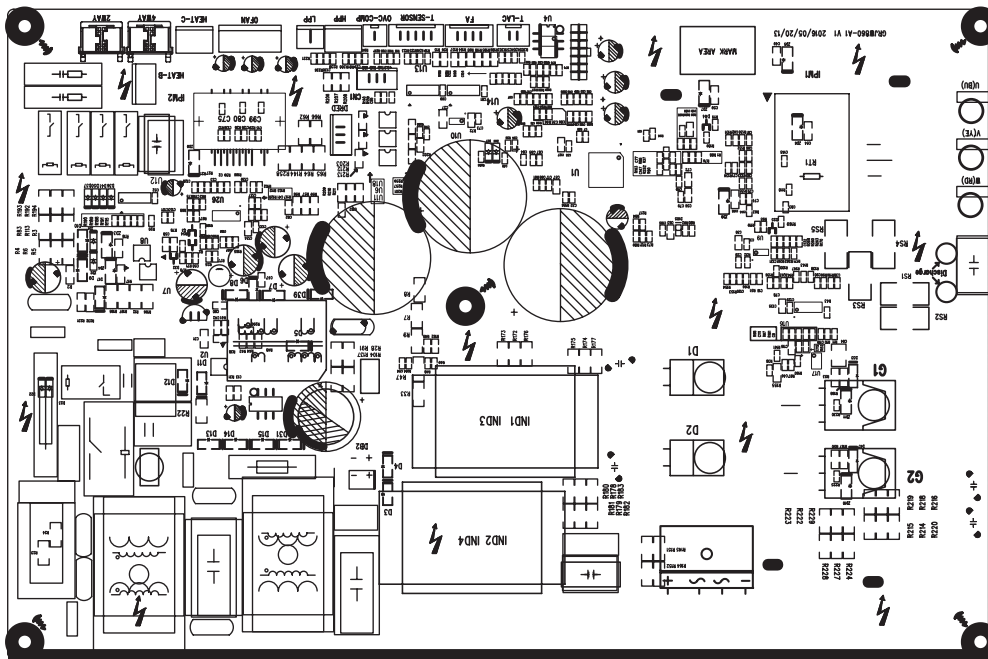
Outdoor Unit

• Top view



No.	Name
1	Power supply neutral wire
2	Power supply live wire
3	Communication wire with indoor unit
4	Terminal of Temperature sensor
5	Terminal of compressor overload protection
6	Terminal of electronic expansion valve
7	Terminal of outdoor fan
8	Terminal of compressor electric heating
9	Terminal of 4-way valve
10	U、V、W Terminal of compressor
11	Terminal of chassis electric heating
12	Terminal of low ambient temperature cooling temperature sensor
13	Terminal of high pressure protection
14	Terminal of low pressure protection
15	Terminal of 2-way valve
16	Earthing wire

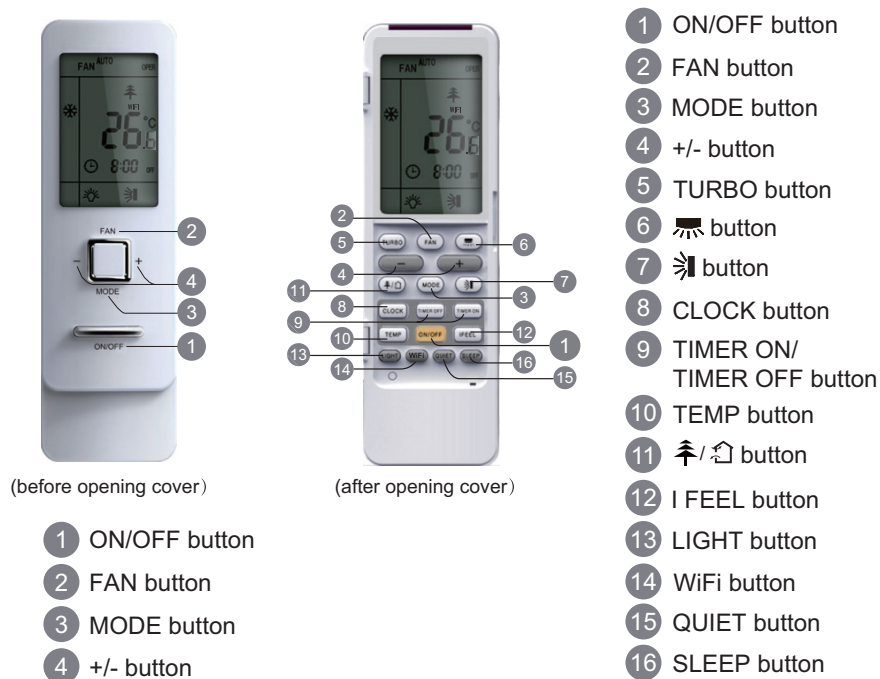
• Bottom view



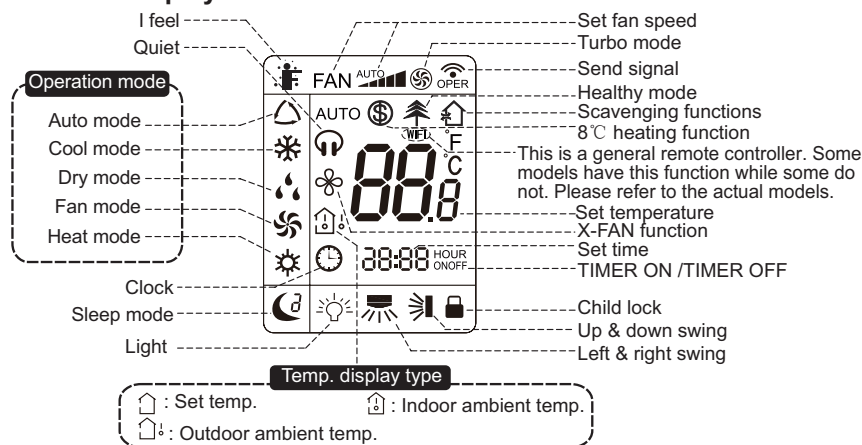
6. Function and Control

6.1 Remote Controller Introduction

Buttons on Remote Controller YAG1FB1



Introduction for Icons on Display Screen



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). 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

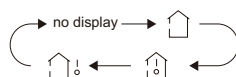
Press this button, the unit will be turned on, press it once more, the unit will be turned off. Sleep function will be canceled, while unit off.




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 place 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, the Timer On will be canceled. Before setting the Timer, 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 same as 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:







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 temperature or it depends on the other received signal within 3s.

Attention: When displaying the outdoor ambient, the displaying range is 0-60 °C. When it goes beyond the range, it keeps the threshold data (the smallest—0 °C and the largest 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 "" signal, while it displays indoor set temperature.

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.

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 send I FEEL once, after this function started, the remote controller will send temperature to the main unit in every 10 minutes. When repress this button, this function will be turned off.





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 simultaneously 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 unit off, Long press "MODE" and "WiFi" buttons simultaneously for 1s, remote controller will send WIFI reset code and then the WIFI function will be turned on. WIFI function is defaulted OFF after energization of the remote controller.

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 (), Sleep 2 (), Sleep 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, 2 hours, setting temperature increased 2 °C, 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, 2 hours, setting temperature will decrease 2 °C, 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, after turned on Sleep function, the temperature will be increased 1 °C in every hour, after 3 °C the temperature will be maintained, after 7 hours, the temperature will be decreased 1 °C, after that the unit will keep on running under this temperature;
- (2) When setting the initial temperature 24~27 °C, after turned on Sleep function, the temperature will be increased 1 °C in every hour, after 2 °C the temperature will be maintained, after 7 hours, the temperature will be decreased 1 °C, after that the unit will keep on running under

this temperature;

(3) When setting the initial temperature 28~29°C, after turned on Sleep function, the temperature will be increased 1°C in every hour, after 1°C the temperature will be maintained, after 7hours, the temperature will be decreased 1°C, after that the unit will keep on running under this temperature;

(4) When setting the initial temperature 30°C, under this temperature setting, after 7hours, the temperature will be decreased 1°C, after that the unit will keep on running under this temperature;

In Heat mode:

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

(2) Under the initial presetting temperature 17~20°C, after Sleep function started up, the temperature will decrease 1°C in every hour, after 1°C decreased, this temperature will be maintained.

(3) Under the initial presetting temperature 21~27°C, after Sleep function started up, the temperature will decrease 1°C in every hour, after 2°C decreased, this temperature will be maintained.

(4) Under the initial presetting temperature 28~30°C, after Sleep function started up, the temperature will decrease 1°C in every hour, after 3°C 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 "Turbo" button for confirmation;

(3) At this time, 1hour will be automatically increased at the timer position 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 controller 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 within 10s, 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.


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.

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. approaches the preset temp. as soon as possible.

About lock

Press + and - buttons simultaneously to lock or unlock the keyboard. If the remote controller 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 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.

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 , 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.


About switch between Fahrenheit and Centigrade

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

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.

Combination of "TEMP" and "CLOCK" buttons : About 8°C Heating Function (This function is only available for some models)

Press "TEMP" and "CLOCK" simultaneously in HEAT mode to start 8°C 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.

About 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, indoor fan will operate at notch 2 speed or quiet mode according to the comparison between indoor ambient 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.

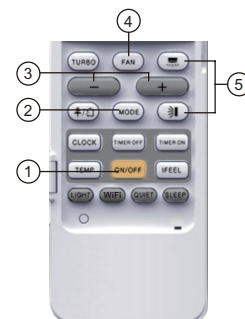
About Sleep function

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 started, different Quiet status could be optional and turned off.

Operation Guide

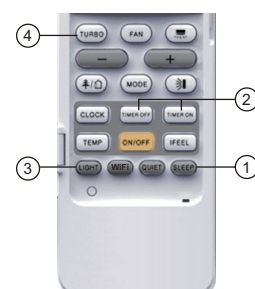
1. General operation

- (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.

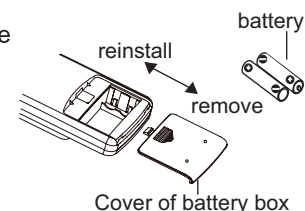


Replacement of Batteries in Remote Controller


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.





1. ON/OFF button












Press this button can turn on or turn off the air conditioner. After turning on the air conditioner, operation indicator "  " on indoor unit's display is ON (green indicator. The colour is different for different models), and indoor unit will give out a sound.

2. MODE button

Press this button to select your required operation mode.



When selecting auto mode, air conditioner will operate automatically according to the sensed temperature. Press "FAN" button can adjust fan speed. Press "  " / "  " button can adjust fan blowing angle.

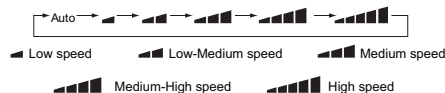
- After selecting cool mode, air conditioner will operate under cool mode. Cool indicator "  " on indoor unit is ON. Press "▲" or "▼" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press "  " / "  " button to adjust fan blowing angle.
- When selecting dry mode, the air conditioner operates at low speed under dry mode. Dry indicator "  " on indoor unit is ON. Under dry mode, fan speed can't be adjusted. Press "  " / "  " button to adjust fan blowing angle.
- When selecting fan mode, the air conditioner will only blow fan, no cooling and no heating. All indicators are OFF, Operation indicator is ON. Press "FAN" button to adjust fan speed. Press "  " / "  " button to adjust fan blowing angle.
- When selecting heating mode, the air conditioner operates under heat mode. Heat indicator "  " on indoor unit is ON. Press "▲" or "▼" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press "  " / "  " button to adjust fan blowing angle. (Cooling only unit won't receive heating mode signal. If setting heat mode with remote controller, press ON/OFF button can't start up the unit).

Note:


- For preventing cold air, after starting up heating mode, indoor unit will delay 1~5 minutes to blow air (actual delay time is depend on indoor ambient temperature).
- Set temperature range from remote controller: 16~30 °C (61-86°F); Fan speed: auto, low speed, low-medium speed, medium speed, medium-high speed, high speed.

3. FAN button

This button is used for setting Fan Speed in the sequence that goes from AUTO, , ,  to , then back to Auto.




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 blown 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.

4. TURBO button

Under COOL or HEAT mode, press this button to turn to quick COOL or quick HEAT mode. "  " icon is displayed on remote controller.

Press this button again to exit turbo function and "  " icon will disappear.

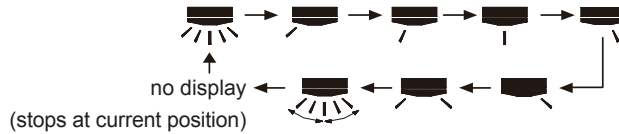
If start this function, the unit will run at super-high fan speed to cool or heat quickly so that the ambient temp. approaches the preset temp. as soon as possible.

5. ▲/▼ button



- Press "▲" or "▼" button once increase or decrease set temperature 1°C (°F). Holding "▲" or "▼" button, 2s later, set temperature on remote controller will change quickly. On releasing button after setting is finished, temperature indicator on indoor unit will change accordingly. (Temperature can't be adjusted under auto mode)
- When setting TIMER ON, TIMER OFF or CLOCK, press "▲" or "▼" button to adjust time. (Refer to CLOCK, TIMER ON, TIMER OFF buttons) When setting TIMER ON, TIMER OFF or CLOCK, press "▲" or "▼" button to adjust time. (Refer to CLOCK, TIMER ON, TIMER OFF buttons)

6. button

Press this button can select left & right swing angle. Fan blow angle can be selected circularly as below:

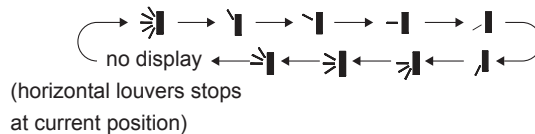












Note:

- Press this 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.
- Under swing left and right 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.






7. button

Press this button can select up & down swing angle. Fan blow angle can be selected circularly as below:






- When selecting "", air conditioner is blowing fan automatically. Horizontal louver will automatically swing up & down at maximum angle.
- When selecting ", , , , ", air conditioner is blowing fan at fixed position. Horizontal louver will stop at the fixed position.
- When selecting ", , ", air conditioner is blowing fan at fixed angle. Horizontal louver will send air at the fixed angle.
- Hold "" button above 2s to set your required swing angle. When reaching your required angle, release the button.

Note:

- ", , " may not be available. When air conditioner receives this signal, the air conditioner will blow fan automatically.
- Press this 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.
- 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.

8. SLEEP button



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

Sleep 1 is Sleep mode 1, in Cool modes; sleep status after run for one hour, the main unit setting temperature will increase 1 °C , two hours, setting temperature increased 2 °C , then the unit will run at this setting temperature; In Heat mode: sleep status after run for one hour, the setting temperature will decrease 1 , two hours, setting temperature will decrease 2 °C , 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.
- 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 remote controller 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 "Turbo" button for confirmation;
 - (3) At this time, 1hour will be automatically increased at the timer position 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 8 hours temperature setting finished, sleep, curve setting finished, at this time, the remote controller 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 within 10s, there is no button pressed, the sleep curve setting within 10s, 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.









9. I FEEL button

Press this button to start I FEEL function and "  " will be displayed on the remote controller. After this function is set, the remote controller will send the detected ambient temperature to the controller and the unit will automatically adjust the indoor temperature according to the detected temperature. Press this button again to close I FEEL function and "  " will disappear.









- Please put the remote controller near user when this function is set. Do not put the remote controller near the object of high temperature or low temperature in order to avoid detecting inaccurate ambient temperature.

10. TIMER ON / TIMER OFF button

- TIMER ON button

"TIMER ON" button can set the time for timer on. After pressing this button, "  " icon disappears and the word "ON" on remote controller blinks. Press "  " or "  " button to adjust TIMER ON setting. After each pressing "  " or "  " button, TIMER ON setting will increase or decrease 1min. Hold "  " or "  " button, 2s later, the time will change quickly until reaching your required time. Press "TIMER ON" to confirm it. The word "ON" will stop blinking. "  " icon resumes displaying. Cancel TIMER ON: Under the condition that TIMER ON is started up, press "TIMER ON" button to cancel it.









- TIMER OFF button

"TIMER OFF" button can set the time for timer off. After pressing this button, "  " icon disappears and the word "OFF" on remote controller blinks. Press "  " or "  " button to adjust TIMER OFF setting. After each pressing "  " or "  " button, TIMER OFF setting will increase or decrease 1min. Hold "  " or "  " button, 2s later, the time will change quickly until reaching your required time. Press "TIMER OFF" word "OFF" will stop blinking. "  " icon resumes displaying. Cancel TIMER OFF. Under the condition that TIMER OFF is started up, press "TIMER OFF" button to cancel it.

Note:

- Under on and off status, you can set TIMER OFF or TIMER ON simultaneously.
- Before setting TIMER ON or TIMER OFF, please adjust the clock time.
- After starting up TIMER ON or TIMER OFF, set the constant circulating valid. After that, air conditioner will be turned on or turned off according to setting time. ON/OFF button has no effect on setting. If you don't need this function, please use remote controller to cancel it.




11. CLOCK button

Press this button to set clock time. "  " icon on remote controller will blink. Press "  " or "  " button within 5s to set clock time. Each pressing of "  " or "  " button, clock time will increase or decrease 1 minute. If hold "  " or "  " button, 2s later, time will change quickly. Release this button when reaching your required time. Press "CLOCK" button to confirm the time. "  " icon stops blinking.

Note:

- Clock time adopts 24-hour mode.
- The interval between two operation can't exceed 5s. Otherwise, remote controller will quit setting status. Operation for TIMER ON/TIMER OFF is the same.

12. 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.

Note:

- The Quiet function cannot be set up in Fan and Dry mode; Under the Quiet mode, the fan speed is not available.
- When quiet function is selected:
 - Under cooling mode: indoor fan operates at notch 4 speed. 10 minutes later or when indoor ambient temperature $\leq 28^{\circ}\text{C}$, indoor fan will operate at notch 2 speed or quiet mode according to the comparison between indoor ambient temperature and set temperature.
 - Under heating mode: indoor fan operates at notch 3 speed or quiet mode according to the comparison between indoor ambient temperature and set temperature.
- actual cooling, heating or fan mode.
- Under dry, fan mode: indoor fan operates at quiet mode. Under auto mode: the indoor fan operates at the auto quiet mode according to actual cooling, heating or fan mode.
- The Quiet function is only available for some models.

13. 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 unit 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.

14. LIGHT button

Press this button to turn off display light on indoor unit. "☀️" icon on remote controller disappears. Press this button again to turn on display light. "☀️" icon is displayed.

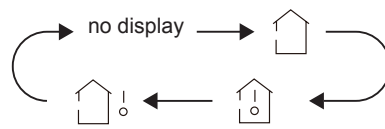
15. 🏠/🏠 button

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.

- This function is applicable to partial of models.

16. TEMP button

By pressing this button, you can see indoor set temperature, indoor ambient temperature or outdoor ambient temperature on indoor units display. The setting on remote controller is selected circularly as below:



- When selecting "🏠" or no display with remote controller, 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.

Note:

- Outdoor temperature display is not available for some models. At that time, indoor unit receives "🏠!" signal, while it displays indoor set temperature.
- Its defaulted to display set temperature when turning on the unit. There is no display in the remote controller.
- Only for the models whose indoor unit has dual-8 display.
- When selecting displaying of indoor or outdoor ambient temperature, indoor temperature indicator displays corresponding temperature and automatically turn to display set temperature after three or five seconds.

Function introduction for combination buttons

1. Energy-saving function

Under cooling mode, press "TEMP" and "CLOCK" buttons simultaneously to start up or turn off energy-saving function. When energy-saving function is started up, "SE" will be shown on remote controller, and air conditioner will adjust the set temperature automatically according to ex-factory setting to reach to the best energy-saving effect. Press "TEMP" and "CLOCK" buttons simultaneously again to exit energy-saving function.

Note:

- Under energy-saving function, fan speed is defaulted at auto speed and it cant be adjusted.
- Under energy-saving function, set temperature cant be adjusted. Press "TURBO" button and the remote controller wont send signal.
- Sleep function and energy-saving function cant operate at the same time. If energy-saving function has been set under cooling mode, press sleep button will cancel energy-saving function. If sleep function has been set under cooling mode, start up the energy-saving function will cancel sleep function.

2. 8°C heating function(only for the mode with this function)

Under heating mode, press "TEMP" and "CLOCK" buttons simultaneously to start up or turn off 8°C heating function. When this function is started up, "8°C" and "8°C" will be shown on remote controller, and the air conditioner keep the heating status at 8°C. Press "TEMP" and "CLOCK" buttons simultaneously again to exit 8°C heating function.

Note:

- Under 8°C heating function, fan speed is defaulted at auto speed and it cant be adjusted.
- Under 8°C heating function, set temperature cant be adjusted. Press "TURBO" button and the remote controller wont send signal.
- Sleep function and 8°C heating function cant operate at the same time. If 8°C heating function has been set under cooling mode, press sleep button will cancel 8°C heating function. If sleep function has been set under cooling mode, start up the 8°C heating function will cancel sleep function.
- Under °F temperature display, the remote controller will display 46 °F heating.

3. Child lock function

Press "▲" and "▼" simultaneously to turn on or turn off child lock function. When child lock function is on, "🔒" icon is displayed on remote controller. If you operate the remote controller, the "🔒" icon will blink three times without sending signal to the unit.

4. Temperature display switchover function

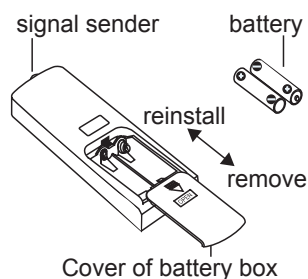
Under OFF status, press "▼" and "MODE" buttons simultaneously to switch temperature display between °C and °F.

Operation guide

1. After putting through the power, press "ON/OFF" button on remote controller to turn on the air conditioner.
2. Press "MODE" button to select your required mode: AUTO, COOL, DRY, FAN, HEAT.
3. Press "▲" or "▼" button to set your required temperature. (Temperature cant be adjusted under auto mode).
4. Press "FAN" button to set your required fan speed: auto, low, medium and high speed.
5. Press "🌀" button to select fan blowing angle

Replacement of batteries in remote controller

1. Press the back side of remote controller marked with "OPEN", 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 dont use remote controller for a long time, please take out the batteries.
- If the display on remote controller is fuzzy or theres no display, please replace batteries.

6.2 Operation of Smart Control (Smart Phone, Tablet PC) For Gree

Operation Instructions

Download and install APP

Scan the following QR code with your smart phone and download Wifi Smart.



Install the APP according to its guidance. When successfully installed, your smart phone homepage will show this icon



User of IOS system can search for the Gree Smart in Apple store to download the Apple version APP.

Configuration

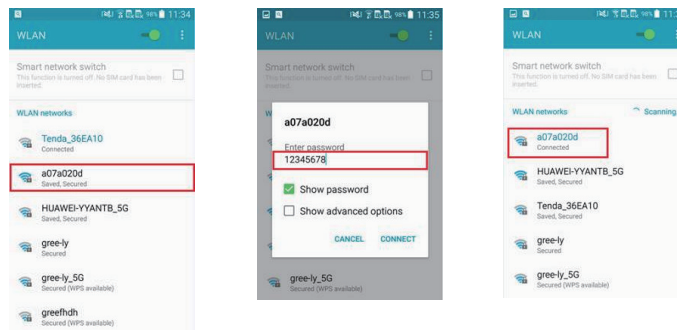
NOTE: Select either the original configuration or AP configuration according to the APP functions.

1.Original configuration

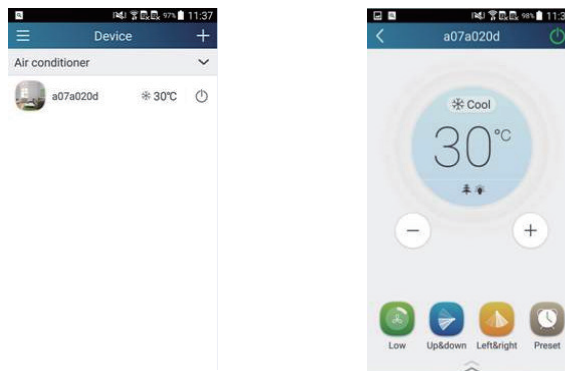
Before operation, please finish the following configuration in order to realize Wifi control and the connection between air conditioner and intelligent device.

(1).Short-distance control setting for air conditioner using Wifi hotspot

Step 1: Air conditioner Wifi is set in AP mode in factory. You can search the air conditioner Wifi hotspot through your smart phone. The name of Wifi hotspot is the last 8 numbers of the air conditioner mac address. Password is 12345678.




Step 2: Open APP and the screen will show the air conditioner that you just connected. Tap the name of this air conditioner on your phone to enter and realize short-distance control, as shown below. Please refer to "Functions introduction" for specific control methods.

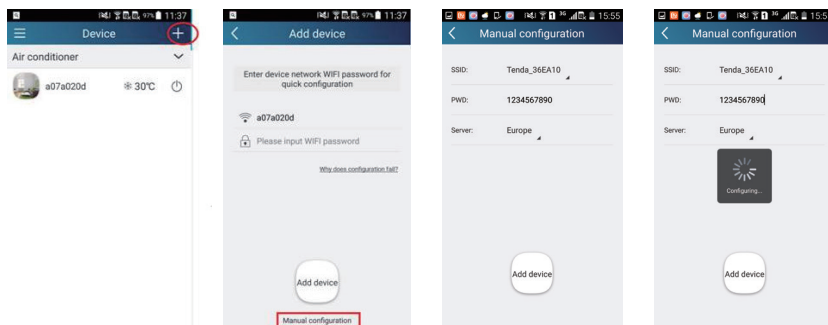


NOTE:One AC can be controlled by 4 smart phones in maximum at the same time.

(2).Short-distance and long-distance control setting for air conditioner connecting with router


Step 1: Under short-distance control, return to the homepage "Home Control". Tap  at the top right corner of the homepage "Device".

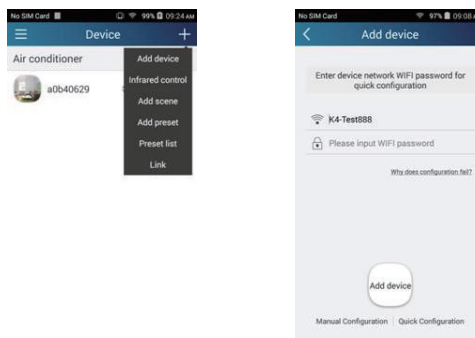
Select "Add device" and enter the page of "Add device". Tap "Manual configuration" and enter the page "Manual configuration".
 Step 2: Select the correct network name and enter the password. Select the server (The server setting here must keep the same as the server setting in "Settings" mentioned below. Otherwise, remote control will fail.), then tap the button "Add device" for configuration. At this time, "Configuring" is displayed on the APP. The buzzer in the indoor unit will give out a sound when configuration succeeds.



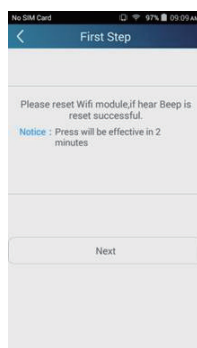
2.AP configuration

4 steps of configuration

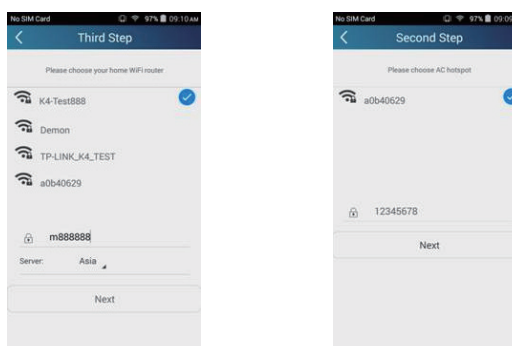
Step 1: Enter homepage "Device", and then tap  at the top right corner. Select "Add device" and enter the page "Add device". Tap "Manual Configuration".



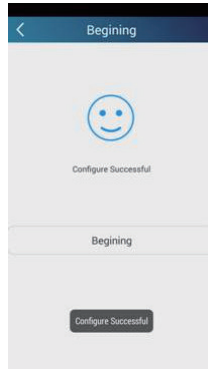
Step 2: Tap "Next" in the First Step.



Step 3: Select the wireless network of air conditioner. APP will show the password 12345678 (default password of the network of air conditioner). Then tap "Next"; select the name of home Wifi router, then enter the correct password and select a server.



Step 4: If configuration is successful, a window will pop up and read "Configuration succeeded". Then configuration is completed.



NOTE: After configuration is completed, the air conditioner hot spot connected to your phone will disappear. You should reconnect your phone to the home Wifi router to realize long-distance control.

The above configuration only needs one phone. Other types of phones shall install this APP, connect with the air conditioner hot spot or wireless router of Wifi air conditioner. When connection is done, open the APP to use short-distance operation to control the air conditioner and then you can use the long-distance control.

Functions introduction

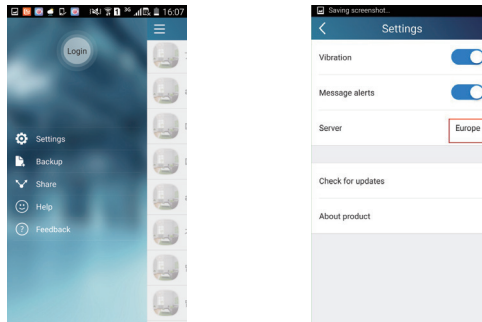
1. User registration

Purpose: To realize long-distance control

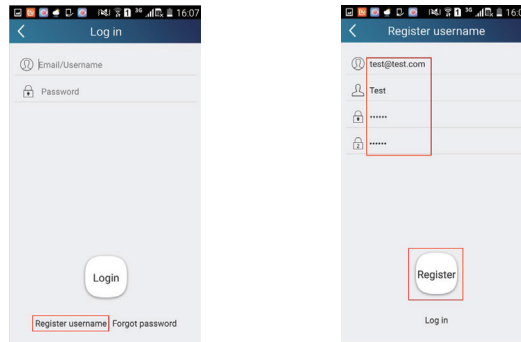
Operation instruction: For the first time login, you have to register a new username. If you already have a username, skip the registration step and enter email address and password on the "Login Page" to log in. If password is forgotten, you can reset the password.

Operation steps:

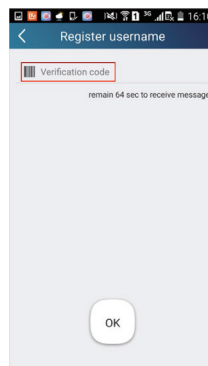
(1) Select the sever address



(2) Account login: Slide the page "Device", and enter the page "Menu" on the left. Tap "Login" to enter the page "Register username". New user must first register a username. Tap "Register".

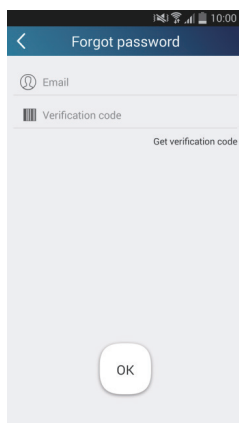


(3) Enter your email address. Wait until you receive the verification code. Enter the code and then tap "OK" to log in.



(4) If password is forgotten, you can reset the password with your email address.

Tap "Forgot password" and enter the page "Forgot password". Tap "Get verification code" to get an email verification code. Enter a new password and tap "OK" to log in.

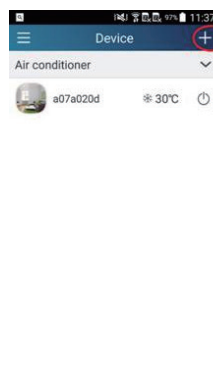


2. Personal settings

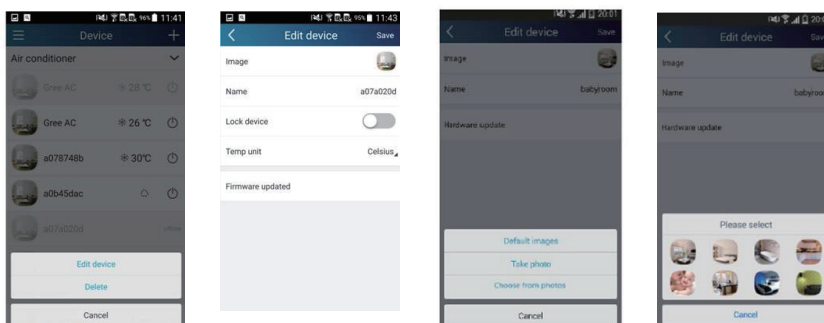
Purpose: Set name (device name, preset name, etc.) and images (device image) in order to identify a user easily.

(1) Set device name

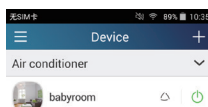
After quick configuration, a list of controllable smart devices will be generated. Default name for air conditioner is the last 8 numbers of the air conditioner mac address.



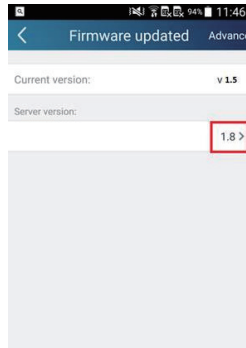
Step 1: Tap and hold "a0b417ac" to enter the page "Edit device". Tap "Image" to select the source of image. Select from "Default images" or "Take photo" or "Choose from photos" and save an image.



Step 2: Tap "Name" to change device name. Save it and the new device name will be shown. Enable button "Lock device" to lock the device so that other smart phones can't search the device. Tap "Temp unit" to change the temperature unit.

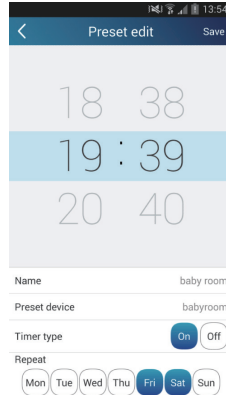


Step 3: Tap "Firmware update" to upgrade the firmware of the device. Tap "1.8" and then the device will be updated automatically.

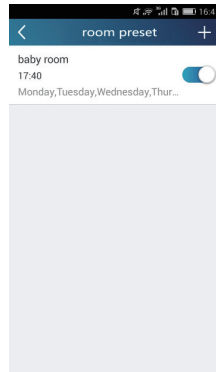


(2) Set preset name

Step 1: Tap  at the top right corner of the homepage "Device". Select "Add preset" and enter the page "Preset edit".



Step 2: Choose the time. Tap "Name". As shown in the picture, its name is "baby room". For timer type, select "On". Then select the repeating days. Save the setting of preset name.



(3) Set device image

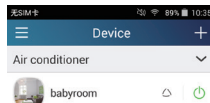
Please refer to step 1 in 2(1)

3.Control functions

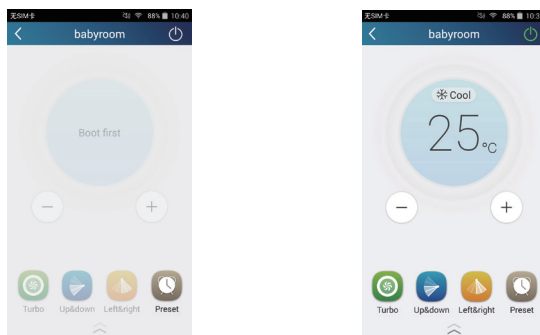
(1) Common control functions: General control on the operation of smart devices (On/Off, temperature, fan speed, mode, etc.) and the setting of advanced functions (air exchange, dry, health, light, sleep, energy saving upper limit).

Step 1: General control

Enter the homepage "Home control" first. Take "babyroom"as an example.



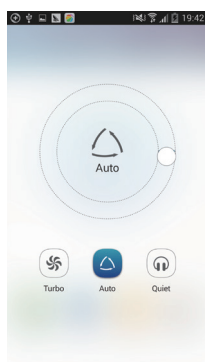
Tap "babyroom" and enter the page of air conditioner control. Tap  to turn on the control switch.



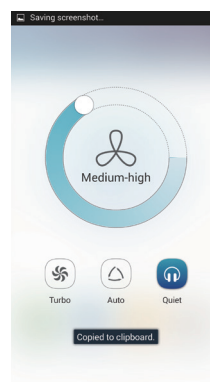
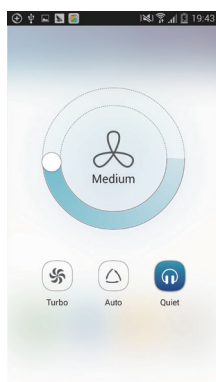
Tap or to increase or decrease temperature. Tap to change working mode. Tap to enter the page of fan speed adjustment.



to enter the page of fan speed

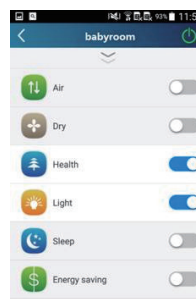
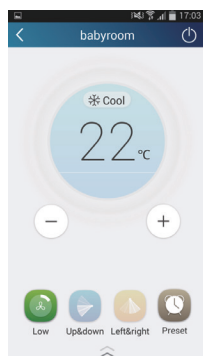


Tap and go around the circle to adjust fan speed.



Step 2: Advanced settings

Tap to enter advanced settings. You may select "Air", "Dry", "Health", "Light", "Sleep" or "Energy saving".



(2) Advanced control functions: Set scene; Preset; Link; Infrared control (only APPLICable to smart phones with infrared emitter)

Set scene: Preset the operation of several smart devices by one tap.

On the page "Home control", tap the image of "Home control" to enter the page "Edit scene".

