

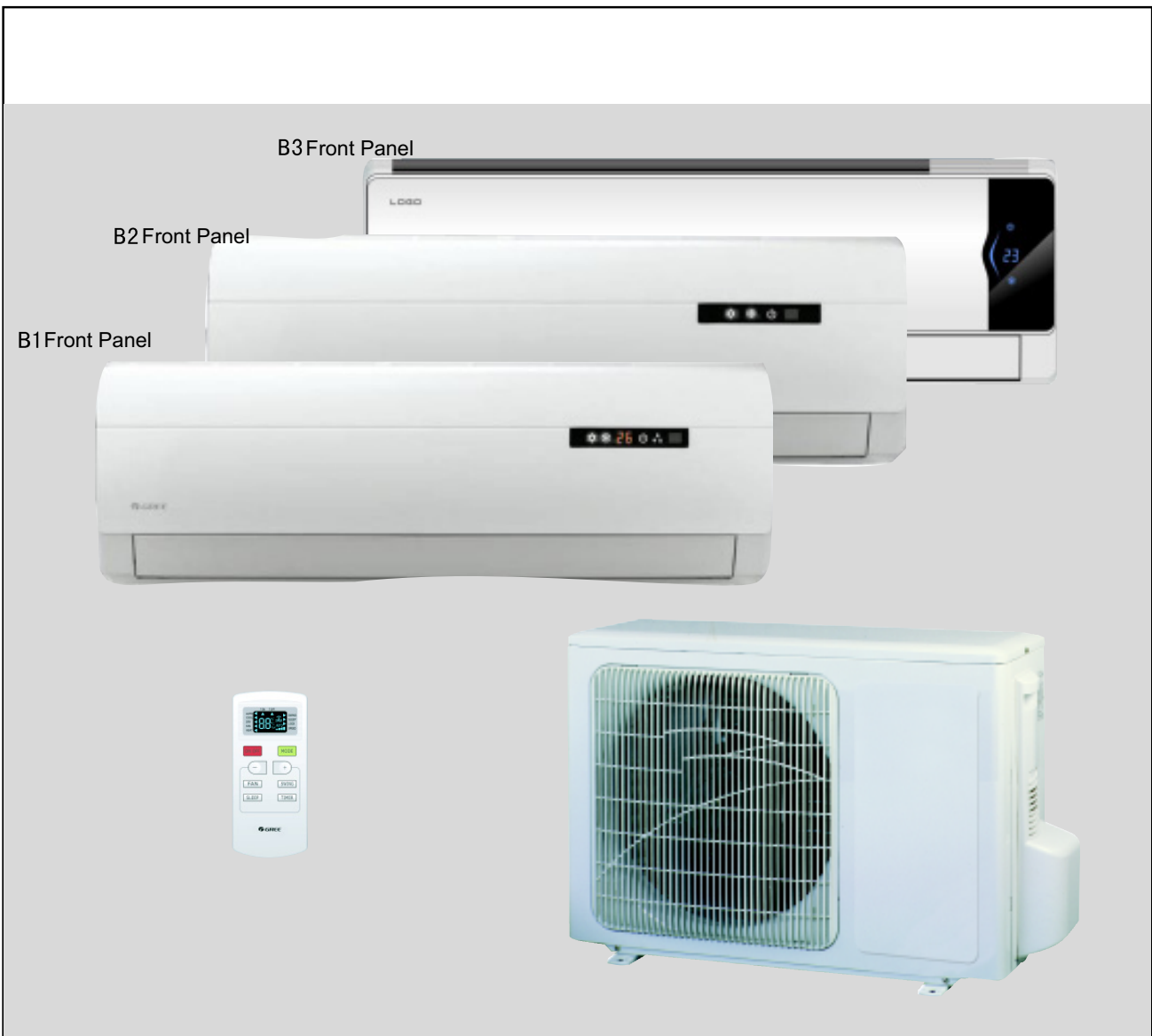
1 Summary and features



Model	Remarks
GWC05NA-K1NNB1A GWH05NA-K1NNB1A GWC07NA-K1NNB1A GWH07NA-K1NNB1A GWC09NA-K1NNB1A GWH09NA-K1NNB1A GWC05NA-K1NNB2A GWH05NA-K1NNB2A GWC07NA-K1NNB2A GWH07NA-K1NNB2A GWC09NA-K1NNB2A GWH09NA-K1NNB2A GWC09NA-K1NNB3A GWH09NA-K1NNB3A	1Ph 220-240V~ 50Hz R22



Model	Remarks
GWC12NB-K1NNB1A GWH12NB-K1NNB1A GWC12NB-K1NNB2A GWH12NB-K1NNB2A GWC12NB-K1NNB3A GWH12NB-K1NNB3A	1Ph 220-240V~ 50Hz R22



Model	Remarks
<p>GWC18NC-K1NNB1A GWH18NC-K1NNB1A GWC18NC-K1NNB2A GWH18NC-K1NNB2A GWC18NC-K1NNB3A GWH18NC-K1NNB3A</p>	<p>1Ph 220-240V~ 50Hz R22</p>



Model	Remarks
<p>GWC24ND-K1NNB1A GWH24ND-K1NNB1A GWC24ND-K1NNB2A GWH24ND-K1NNB2A GWC24ND-K1NNB3A GWH24ND-K1NNB3A</p>	<p>1Ph 220-240V~ 50Hz R22</p>

2 Technical specifications

Model	GWC05NA-K1NNB1A GWC05NA-K1NNB2A	GWH05NA-K1NNB1A GWH05NA-K1NNB2A	
Function	COOLING	COOLING HEATING	
Rated Voltage	220-240V~	220-240V~	
Rated Frequency	50Hz	50Hz	
Total Capacity (W/Btu/h)	5100Btu/h(1494W)	5000Btu/h(1465W) 5200Btu/h(1524W)	
Power Input (W)	572W	561W 583W	
Rated Input (W)	790W	790W 790W	
Rated Current (A)	4.0	4 4	
Air Flow Volume (m ³ /h) (H/ML)**	260/245/230/210	260/245/230/210	
Dehumidifying Volume (l/h)	--	--	
EER / C.O.P (W/W)	2.61/-	2.61/2.61	
Energy Class	--	--	
Indoor unit	Model of Indoor Unit	GWC05NA-K1NNB1A/I GWC05NA-K1NNB2A/I	GWH05NA-K1NNB1A/I GWH05NA-K1NNB2A/I
	Fan Motor Speed (r/min) (H/ML)	1110/1040/970/910	1110/1040/970/910 950/880/840/760
	Output of Fan Motor (w)	10W	10W
	Input of Heater (w)	--	--
	Fan Motor Capacitor (uF)	1.0	1
	Fan Motor RLA(A)	0.17	0.17
	Fan Type-Piece	Cross flow fan - 1	Cross flow fan - 1
	Diameter-Length (mm)	φ85 X 532	φ85 X 532
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)	7	7
	Row-Fin Gap(mm)	2-1.5	2-1.5
	Coil length (l)×height (H)×coil width (L)	526X25.4X228.6	526X25.4X228.6
	Swing Motor Model	MP24AA	MP24AA
	Output of Swing Motor (W)	1.5	1.5
	Fuse (A)	PCB 3.15A	PCB 3.15A
	Sound Pressure Level dB (A) (H/ML)	39/35/33/30	39/35/33/30
	Sound Power Level dB (A) (H/ML)***	49/45/43/40	49/45/43/40
Dimension (W/H/D) (mm)	730×255×174	730×255×174	
Dimension of Package(W/H/D)(mm)	790×245×325	790×245×325	
Net Weight /Gross Weight (kg)	8/10.5	8/10.5	

Outdoor unit	Model of Outdoor Unit		GWC05NA-K1NNB2A/O	GWH05NA-K1NNB2A/O
	Compressor Manufacturer/trademark		LG	LG
	Compressor Model		QA096PBD	QA096PBD
	Compressor Type		ROTARY	ROTARY
	L.R.A. (A)		12.5	12.5
	Compressor RLA(A)		2.4	2.4
	Compressor Power Input(W)		512	512
	Overload Protector		MRA12010-12026	MRA12010-12026
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (°C)		18~43°C	-7~43°C
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		7	7
	Rows-Fin Gap(mm)		1-1.4	1-1.4
	Coil length(l) x height(H) x coil width(L)		474X400X12.7	474X400X12.7
	Fan Motor Speed (rpm) (H/ML)		950	950
	Output of Fan Motor (W)		20	20
	Fan Motor RLA(A)		0.3	0.3
	Fan Motor Capacitor (uF)		1.5	1.5
	Air Flow Volume of Outdoor Unit		1500	1500
	Fan Type-Piece		Axial fan -1	Axial fan -1
	Fan Diameter (mm)		Φ320	Φ320
	Defrosting Method		--	Auto defrost
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	2.5
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	0.6
	Sound Pressure Level dB (A) (H/ML)		50	50
	Sound Power Level dB (A) (H/ML)		60	60
Dimension (W/H/D) (mm)		720X430X310	720X430X310	
Dimension of Package (L/W/H)(mm)		765X350X475	765X350X475	
Net Weight /Gross Weight (kg)		21/23.5	22/24.5	
Refrigerant Charge (kg)		R22/0.35	R22/0.42	
Connect on Pipe	Length (m)		4	4
	Gas additional charge(g/m)		30	30
	Outer Diameter	Liquid Pipe (mm)	Φ6(1/4")	Φ6(1/4")
		Gas Pipe (mm)	Φ9.52(3/8")	Φ9.52(3/8")
	Max Distance	Height (m)	5	5
Length (m)		10	10	

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

Model	GWC07NA-K1NNB1A GWC07NA-K1NNB2A	GWH07NA-K1NNB1A GWH07NA-K1NNB2A	
Function	COOLING	COOLING	HEATING
Rated Voltage	220-240V~	220-240V~	
Rated Frequency	50Hz	50Hz	
Total Capacity (W/Btu/h)	2051(W)/7000/(Btu/h)	2051(W)/7000 (Btu/h)	2110(W)/7200 (Btu/h)
Power Input (W)	786	786	808
Rated Input (W)	1170	1150	1100
Rated Current (A)	6.0	5.65	4.5
Air Flow Volume (m ³ /h) (H/ML)**	400	400	
Dehumidifying Volume (l/h)	/	/	
EER / C.O.P (WW)	2.61	2.61/2.61	
Energy Class	/	/	
Indoor unit	Model of Indoor Unit	GWC07NA-K1NNB1A/I GWC07NA-K1NNB2A/I	GWH07NA-K1NNB1A/I GWH07NA-K1NNB2A/I
	Fan Motor Speed (r/min) (H/ML)	1280/1180/1070/980	1280/1180/1070/980 1220/1130/1070/950
	Output of Fan Motor (w)	10	10
	Input of Heater (w)	/	/
	Fan Motor Capacitor (uF)	1.0	1.0
	Fan Motor RLA(A)	0.13	0.13
	Fan Type-Piece	Cross flow fan - 1	Cross flow fan - 1
	Diameter-Length (mm)	φ85 X 532	φ85 X 532
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)	φ7	φ7
	Row-Fin Gap(mm)	2-1.5	2-1.5
	Coil length (l)×height (H)×coil width (L)	526X25.4X228.6	526X25.4X228.6
	Swing Motor Model	MP24AA	MP24AA
	Output of Swing Motor (W)	1.5	1.5
	Fuse (A)	PCB 3.15A	PCB 3.15A
	Sound Pressure Level dB (A) (H/ML)	37/35/32	37/35/32
	Sound Power Level dB (A) (H/ML)***	47/45/42	47/45/42
	Dimension (W/H/D) (mm)	730×255×174	730×255×174
Dimension of Package(W/H/D)(mm)	790×245×325	790×245×325	
Net Weight /Gross Weight (kg)	8/10.5	8/10.5	

Outdoor unit	Model of Outdoor Unit		GWC07NA-K1NNB2A/O	GWH07NA-K1NNB2A/O
	Compressor Manufacturer/trademark		LANDATOSOT	LANDATOSOT
	Compressor Model		QX-B141C030s	QX-B141C030s
	Compressor Type		ROTARY	ROTARY
	L.R.A. (A)		17	17
	Compressor RLA(A)		3.65	3.65
	Compressor Power Input(W)		650	650
	Overload Protector		INTERNAL	INTERNAL
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (°C)		16-30°C	-7-43°C
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ7	Φ7
	Rows-Fin Gap(mm)		1-1.4	1-1.4
	Coil length(l) x height(H) x coil width(L)		474X400.5X12.7	474X400.5X12.7
	Fan Motor Speed (rpm) (H/ML)		950	950
	Output of Fan Motor (W)		20	20
	Fan Motor RLA(A)		0.35	0.35
	Fan Motor Capacitor (uF)		1.5	1.5
	Air Flow Volume of Outdoor Unit		1500	1500
	Fan Type-Piece		Axial fan -1	Axial fan -1
	Fan Diameter (mm)		Φ320	Φ320
	Defrosting Method		Auto defrost	Auto defrost
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	2.5
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	0.6
	Sound Pressure Level dB (A) (H/ML)		50	50
	Sound Power Level dB (A) (H/ML)		60	60
Dimension (W/H/D) (mm)		720X430X310	720X430X310	
Dimension of Package (L/W/H)(mm)		765X350 X475	765X350 X475	
Net Weight /Gross Weight (kg)		24.5/27	25.5/28	
Refrigerant Charge (kg)		R22/0.42	R22/0.55	
Connect on Pipe	Length (m)		4	4
	Gas additional charge(g/m)		30	30
	Outer Diameter	Liquid Pipe (mm)	Φ6(1/4")	Φ6(1/4")
		Gas Pipe (mm)	Φ9.52(3/8")	Φ9.52(3/8")
	Max Distance	Height (m)	5	5
Length (m)		10	10	

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Model		GWC09NA-K1NNB1A GWC09NA-K1NNB2A GWC09NA-K1NNB3A	GWH09NA-K1NNB1A GWH09NA-K1NNB2A GWH09NA-K1NNB3A
Function		COOLING	COOLING HEATING
Rated Voltage		220-240V~	220-240V~
Rated Frequency		50Hz	50Hz
Total Capacity (W/Btu/h)		2638(W)/9000 (Btu/h)	2638(W) / 9000 (Btu/h) 2814(W) / 9600 (Btu/h)
Power Input (W)		1010	1010 1078
Rated Input (W)		1530	1300 1450
Rated Current (A)		6.94	6.6 6.2
Air Flow Volume (m ³ /h) (H/M/L)**		400	400
Dehumidifying Volume (l/h)		/	/
EER / C.O.P (WW)		2.61	2.61/2.61
Energy Class		/	/
Indoor unit	Model of Indoor Unit	GWC09NA-K1NNB1A/I GWC09NA-K1NNB2A/I GWC09NA-K1NNB3A/I	GWH09NA-K1NNB1A/I GWH09NA-K1NNB2A/I GWH09NA-K1NNB3A/I
	Fan Motor Speed (r/min) (H/M/L)	1390/1280/1180/1080	1390/1280/1180/1080 1350/1250/1140/1040
	Output of Fan Motor (w)	10	10
	Input of Heater (w)	/	/
	Fan Motor Capacitor (uF)	1.0	1.0
	Fan Motor RLA(A)	0.13	0.13
	Fan Type-Piece	Cross flow fan - 1	Cross flow fan - 1
	Diameter-Length (mm)	φ85 X 532	φ85 X 532
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)	φ7	φ7
	Row-Fin Gap(mm)	2-1.5	2-1.5
	Coil length (l)×height (H)×coil width (L)	526X25.4X228.6	526X25.4X228.6
	Swing Motor Model	MP24AA	MP24AA
	Output of Swing Motor (W)	1.5	1.5
	Fuse (A)	PCB 3.15A	PCB 3.15A
	Sound Pressure Level dB (A) (H/M/L)	37/35/32	37/35/32
	Sound Power Level dB (A) (H/M/L)***	47/45/42	47/45/42
	Dimension (W/H/D) (mm)	730×255×174	730×255×174
Dimension of Package(W/H/D)(mm)	790×245×325	790×245×325	
Net Weight /Gross Weight (kg)	8/10.5	8/10.5	

Outdoor unit	Model of Outdoor Unit		GWC09NA-K1NNB2A/O	GWH09NA-K1NNB2A/O
	Compressor Manufacturer/trademark		LANDATOSOT	LANDATOSOT
	Compressor Model		QX-B172C030	QX-B172C030
	Compressor Type		ROTARY	ROTARY
	L.R.A. (A)		24	24
	Compressor RLA(A)		4.6	4.6
	Compressor Power Input(W)		960	960
	Overload Protector		INTERNAL	INTERNAL
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (°C)		16-30°C	-7-43°C
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		∅7	7.94
	Rows-Fin Gap(mm)		1-1.4	1-1.4
	Coil length(l) x height(H) x coil width(L)		666X400X12.7	658X396X19.05
	Fan Motor Speed (rpm) (H/ML)		950	950
	Output of Fan Motor (W)		20	20
	Fan Motor RLA(A)		0.35	0.35
	Fan Motor Capacitor (uF)		1.5	1.5
	Air Flow Volume of Outdoor Unit		1500	1500
	Fan Type-Piece		Axial fan -1	Axial fan -1
	Fan Diameter (mm)		∅320	∅320
	Defrosting Method		Auto defrost	Auto defrost
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	2.5
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	0.6
	Sound Pressure Level dB (A) (H/ML)		50	50
	Sound Power Level dB (A) (H/ML)		60	60
Dimension (W/H/D) (mm)		720X430X310	720X430X310	
Dimension of Package (L/W/H)(mm)		765X350 X475	765X350 X475	
Net Weight /Gross Weight (kg)		25/27.5	27/29.5	
Refrigerant Charge (kg)		R22/0.55	R22/0.59	
Connect on Pipe	Length (m)		4	4
	Gas additional charge(g/m)		30	30
	Outer Diameter	Liquid Pipe (mm)	∅6(1/4")	∅6(1/4")
		Gas Pipe (mm)	∅9.52(3/8")	∅9.52(3/8")
	Max Distance	Height (m)	5	5
Length (m)		10	10	

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Model		GWC12NB-K1NNB1A GWC12NB-K1NNB2A GWC12NB-K1NNB3A	GWH12NB-K1NNB1A GWH12NB-K1NNB2A GWH12NB-K1NNB3A
Function		COOLING	COOLING HEATING
Rated Voltage		220-240V~	220-240V~
Rated Frequency		50Hz	50Hz
Total Capacity (W/Btu/h)		11000	11000 11500
Power Input (W)		1235	1235 1165
Rated Input (W)		1380	1380 1380
Rated Current (A)		6.3	6.3 6.3
Air Flow Volume (m ³ /h) (H/ML)**		550(H)	550
Dehumidifying Volume (l/h)		1	1
EER / C.O.P (W/W)		2.61	2.61/2.89
Energy Class		E	E
Indoor unit	Model of Indoor Unit	GWC12NB-K1NNB1A/I GWC12NB-K1NNB2A/I GWC12NB-K1NNB3A/I	GWH12NB-K1NNB1A/I GWH12NB-K1NNB2A/I GWH12NB-K1NNB3A/I
	Fan Motor Speed (r/min) (H/ML)	1350/1250/1100/950	1350/1250/1100/950 1350/1250/1100/950
	Output of Fan Motor (w)	10	10
	Input of Heater (w)	/	/
	Fan Motor Capacitor (uF)	1	1
	Fan Motor RLA(A)	0.13	0.13
	Fan Type-Piece	Cross flow fan – 1	Cross flow fan – 1
	Diameter-Length (mm)	φ 85×596	φ 85×596
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)	φ7	φ7
	Row-Fin Gap(mm)	2-1.5	2-1.5
	Coil length (l)×height (H)×coil width (L)	581X264X25.4	581X264X25.4
	Swing Motor Model	MP24AA	MP24AA
	Output of Swing Motor (W)	1.5	1.5
	Fuse (A)	PCB 3.15A Transformer 0.2A	PCB 3.15A Transformer 0.2A
	Sound Pressure Level dB (A) (H/ML)	38/35/32	38/35/32
	Sound Power Level dB (A) (H/ML)***	48/45/42	48/45/42
	Dimension (W/H/D) (mm)	790×265×177	790×265×177
	Dimension of Package(W/H/D)(mm)	870×248×355	870×248×355
	Net Weight /Gross Weight (kg)	9/12	9/12

Outdoor unit	Model of Outdoor Unit		GWC12NB-K1NNB1A/O	GWH12NB-K1NNB1A/O
	Compressor Manufacturer/trademark		LANDA	LANDA
	Compressor Model		QX-B19E150S	QX-B19E150S
	Compressor Type		Rotary	Rotary
	L.R.A. (A)		24	24
	Compressor RLA(A)		4.9	4.9
	Compressor Power Input(W)		1010	1010
	Overload Protector		/	/
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (°C)		16-30°C	16-30°C/-7-43°C
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		φ8	φ7
	Rows-Fin Gap(mm)		1-1.4	1-1.4
	Coil length(l) x height(H) x coil width(L)		730X506X19.05	730X506X19.05
	Fan Motor Speed (rpm) (H/ML)		850	850
	Output of Fan Motor (W)		30	30
	Fan Motor RLA(A)		0.45	0.45
	Fan Motor Capacitor (uF)		2	2
	Air Flow Volume of Outdoor Unit		1500	1500
	Fan Type-Piece		Axial fan -1	Axial fan -1
	Fan Diameter (mm)		φ400	φ400
	Defrosting Method		/	Auto defrost
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	2.5
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	0.6
	Sound Pressure Level dB (A) (H/ML)		52	52
	Sound Power Level dB (A) (H/ML)		62	62
Dimension (W/H/D) (mm)		798/540/320	798/540/320	
Dimension of Package (L/W/H)(mm)		825/580/355	825/580/355	
Net Weight /Gross Weight (kg)		30/35	32/37	
Refrigerant Charge (kg)		730	870	
Connect on Pipe	Length (m)		4	4
	Gas additional charge(g/m)		30	30
	Outer Diameter	Liquid Pipe (mm)	φ6(1/4")	φ6(1/4")
		Gas Pipe (mm)	φ12(1/2")	φ12(1/2")
	Max Distance	Height (m)	10	10
Length (m)		20	20	

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

Model	GWC18NC-K1NNB1A GWC18NC-K1NNB2A GWC18NC-K1NNB3A	GWH18NC-K1NNB1A GWH18NC-K1NNB2A GWH18NC-K1NNB3A	
Function	COOLING	COOLING	HEATING
Rated Voltage	220-240V	220-240V	
Rated Frequency	50HZ	50HZ	
Total Capacity (W/Btu/h)	4500	4500	4800
Power Input (W)	1820	1800	1800
Rated Input (W)	2470	2350	2400
Rated Current (A)	12.01	12.01	10.03
Air Flow Volume (m ³ /h) (H/ML)**	650	650	
Dehumidifying Volume (l/h)	/	/	
EER / C.O.P (WW)	2.61	2.61	
Energy Class	E	E	
Indoor unit	Model of Indoor Unit	GWC18NC-K1NNB1A/ GWC18NC-K1NNB2A/ GWC18NC-K1NNB3A/	GWH18NC-K1NNB1A/ GWH18NC-K1NNB2A/ GWH18NC-K1NNB3A/
	Fan Motor Speed (r/min) (H/ML)	1350/1250/1100/950	1350/1250/1100/950 1350/1250/1100/1000
	Output of Fan Motor (w)	20	20
	Input of Heater (w)	/	/
	Fan Motor Capacitor (uF)	1	1
	Fan Motor RLA(A)	0.254	0.254
	Fan Type-Piece	Cross flow fan – 1	Cross flow fan – 1
	Diameter-Length (mm)	φ108 X 954	φ108 X 954
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)	φ7	φ7
	Row-Fin Gap(mm)	2-1.4	2-1.4
	Coil length (l)×height (H)×coil width (L)	645X25.4X267	645X25.4X267
	Swing Motor Model	MP24AA	MP24AA
	Output of Swing Motor (W)	2.4	2.4
	Fuse (A)	PCB 3.15A Transformer 0.2A	PCB 3.15A Transformer 0.2A
	Sound Pressure Level dB (A) (H/ML)	43/39/36/33	43/39/36/33
	Sound Power Level dB (A) (H/ML)***	53/49/46/43	53/49/46/43
	Dimension (W/H/D) (mm)	845×275×186	845×275×186
Dimension of Package(W/H/D)(mm)	915×255×355	915×255×355	
Net Weight /Gross Weight (kg)	10/13	10/13	

Outdoor unit	Model of Outdoor Unit		GWC18MB-K1NNA3A/O	GWH18MB-K1NNA3A/O
	Compressor Manufacturer/trademark		LAMDA	LAMDA
	Compressor Model		QX-34F050gA	QX-34F050gA
	Compressor Type		Rotary	Rotary
	L.R.A. (A)		44	44
	Compressor RLA(A)		8.4	8.4
	Compressor Power Input(W)		1820	1820
	Overload Protector		Inset	Inset
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (°C)		-7~43	-7~43
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		7	7
	Rows-Fin Gap(mm)		2-1.4	2-1.6
	Coil length(l) x height(H) x coil width(L)		782X495X25.4	782X495X25.4
	Fan Motor Speed (rpm) (H/ML)		850±20	860±20
	Output of Fan Motor (W)		30W	35W
	Fan Motor RLA(A)		0.35	0.37
	Fan Motor Capacitor (uF)		2	2.5
	Air Flow Volume of Outdoor Unit		/	/
	Fan Type-Piece		Axial fan -1	Axial fan -1
	Fan Diameter (mm)		∅400	∅400
	Defrosting Method		Auto defrost	Auto defrost
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	2.5
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	0.6
	Sound Pressure Level dB (A) (H/ML)		57	57
	Sound Power Level dB (A) (H/ML)		67	67
	Dimension (W/H/D) (mm)		848×540×320	848×540×320
Dimension of Package (L/W/H)(mm)		878×360×580	878×360×580	
Net Weight /Gross Weight (kg)		41/46	43/48	
Refrigerant Charge (kg)		R22/1.0	R22/1.04	
Connect on Pipe	Length (m)		5	5
	Gas additional charge(g/m)		30	30
	Outer Diameter	Liquid Pipe (mm)	∅6(1/4")	∅6(1/4")
		Gas Pipe (mm)	∅12(1/2")	∅12(1/2")
	Max Distance	Height (m)	5	5
Length (m)		10	10	

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

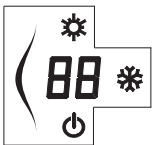
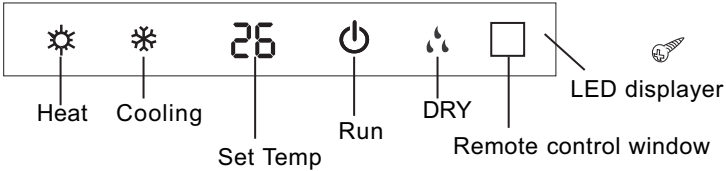
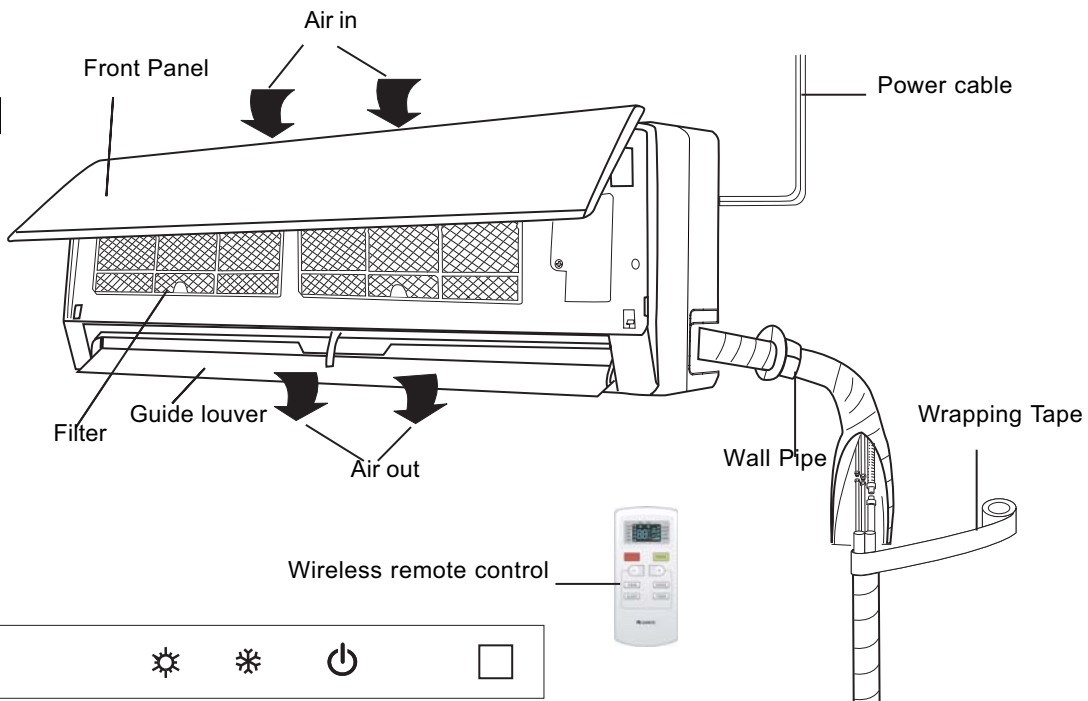
Model		GWC24ND-K1NNB1A GWC24ND-K1NNB2A GWC24ND-K1NNB3A	GWH24ND-K1NNB1A GWH24ND-K1NNB2A GWH24ND-K1NNB3A
Function		COOLING	COOLING HEATING
Rated Voltage		220-240V~	220V-240V~
Rated Frequency		50Hz	50Hz
Total Capacity (W/Btu/h)		6155	6155 6700
Power Input (W)		2300	2250 2250
Rated Input (W)		3210	3000 2850
Rated Current (A)		16.2	13.7 12.95
Air Flow Volume (m ³ /h) (H/ML)**		850/780/650/550	850/780/650/550
Dehumidifying Volume (l/h)		3	3
EER / C.O.P (W/W)		2.67	2.73/2.97
Energy Class		-	-
Indoor unit	Model of Indoor Unit	GWC24ND-K1NNB1A/I GWC24ND-K1NNB2A/I GWC24ND-K1NNB3A/I	GWH24ND-K1NNB1A/I GWH24ND-K1NNB2A/I GWH24ND-K1NNB3A/I
	Fan Motor Speed (r/min) (H/ML)	1350/1200/1050/900	1350/1200/1050/900
	Output of Fan Motor (w)	20	20
	Input of Heater (w)	/	/
	Fan Motor Capacitor (uF)	1.5	1.5
	Fan Motor RLA(A)	0.25	0.32
	Fan Type-Piece	Cross flow fan - 1	Cross flow fan - 1
	Diameter-Length (mm)	φ98 X 710	φ98 X 710
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)	φ7	φ7
	Row-Fin Gap(mm)	2-1.4	2-1.4
	Coil length (l)×height (H)×coil width (L)	715X304.8X25.4	715X304.8X25.4
	Swing Motor Model	MP28VB	MP28VB
	Output of Swing Motor (W)	2	2.5
	Fuse (A)	PCB 3.15A Transformer 0.2A	PCB 3.15A Transformer 0.2A
	Sound Pressure Level dB (A) (H/ML)	49/45/41/37	49/45/41/37
	Sound Power Level dB (A) (H/ML)***	59/55/51/47	59/55/51/47
	Dimension (W/H/D) (mm)	940X200X298	940X200X298
Dimension of Package(W/H/D)(mm)	1010X380 X285	1010X380 X285	
Net Weight /Gross Weight (kg)	13/17	13/17	

Outdoor unit	Model of Outdoor Unit		GWC24ND-K1NNB1A/O	GWH24ND-K1NNB1A/O
	Compressor Manufacturer/trademark		Shanghai tHitachi Electrical	ZHUHAI LANDA COMPRESSOR
	Compressor Model		SHV33ZC1-S	QX-37F050gA
	Compressor Type		rotary compressor	rotary compressor
	L.R.A. (A)		60	48.5
	Compressor RLA(A)		10.1	9.3
	Compressor Power Input(W)		2175	2010
	Overload Protector		内置	内置
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (°C)		21°C≤T≤48°C	-5°C≤T≤48°C
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ9.52	7.94
	Rows-Fin Gap(mm)		1-1.4	2-1.4
	Coil length(l) x height(H) x coil width(L)		806×660×22	853X660X22
	Fan Motor Speed (rpm) (H/ML)		780	765
	Output of Fan Motor (W)		68	60
	Fan Motor RLA(A)		0.75	0.47
	Fan Motor Capacitor (uF)		3	3.5
	Air Flow Volume of Outdoor Unit		2900m ³ /h	3150
	Fan Type-Piece		Axial fan -1	Axial fan -1
	Fan Diameter (mm)		Φ460	Φ522
	Defrosting Method		Auto defrost	/
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	2.5
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	0.6
	Sound Pressure Level dB (A) (H/ML)		56	57
	Sound Power Level dB (A) (H/ML)		66	67
Dimension (W/H/D) (mm)		913X378X680	955 X700X424	
Dimension of Package (L/W/H)(mm)		994X428X725	1030/460/735	
Net Weight /Gross Weight (kg)		48/53	56/61	
Refrigerant Charge (kg)		R22/1.2	R22/1.51	
Connect on Pipe	Length (m)		4	4
	Gas additional charge(g/m)		20	50
	Outer Diameter	Liquid Pipe (mm)	Φ6	Φ6
		Gas Pipe (mm)	Φ12	Φ12
	Max Distance	Height (m)	5	5
Length (m)		10	10	

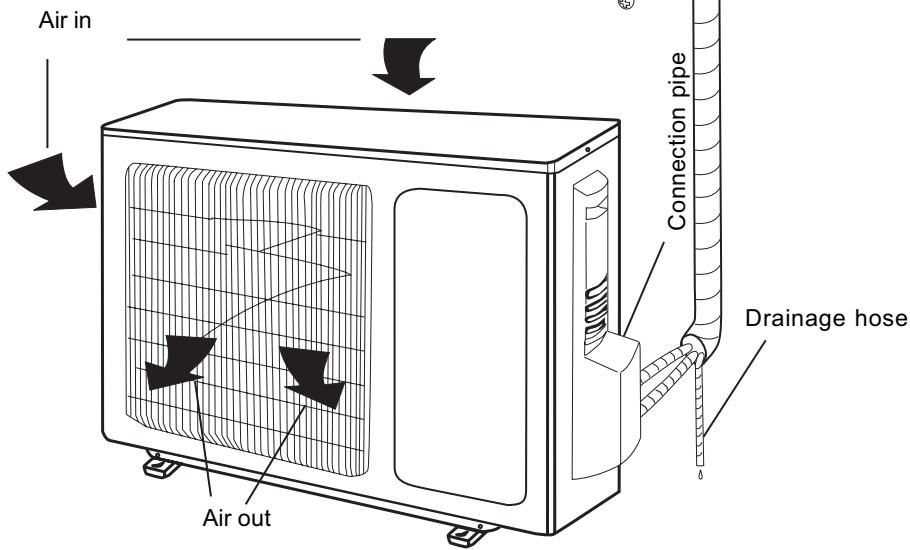
The above data is subject to change without notice. Please refer to the nameplate of the unit.

3 Part name

Indoor unit

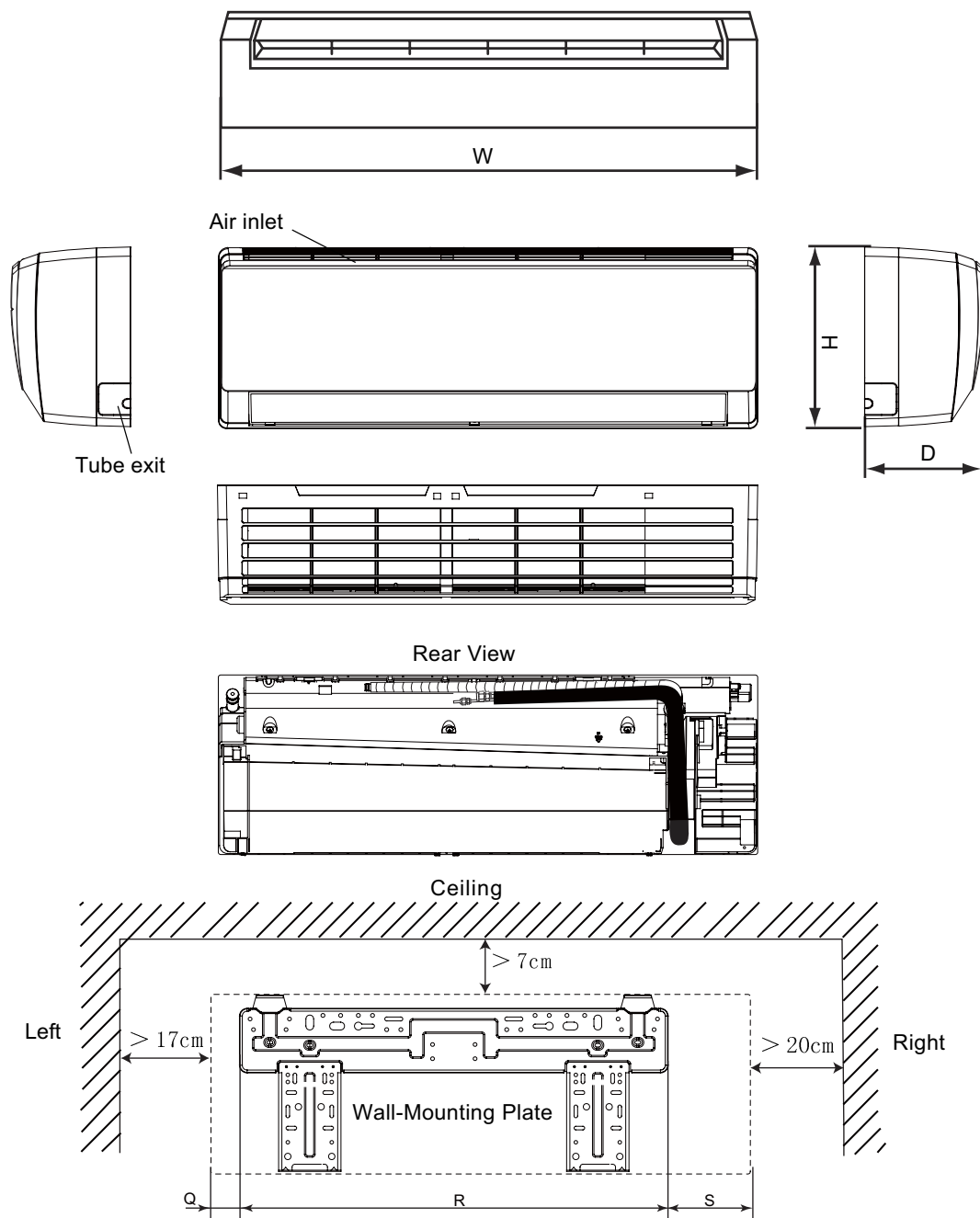


Outdoor unit



4 Outline and installation dimension

4.1 Outline and installation dimensions of indoor unit

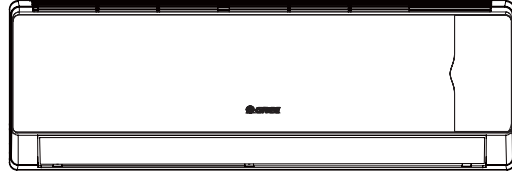


MODEL	W(mm)	H(mm)	D(mm)	Q(mm)	R(mm)	S(mm)
05/07/09K	730	255	174	24	561	145
12K	790	265	177	36	605	149
18K	845	275	186	130	542	173
24K	940	298	200	54	694	192

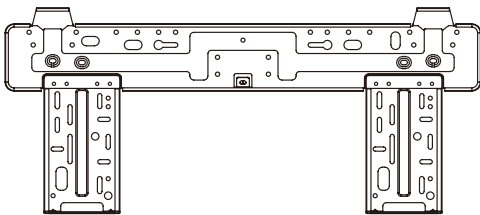
B1、B2 Front Panel



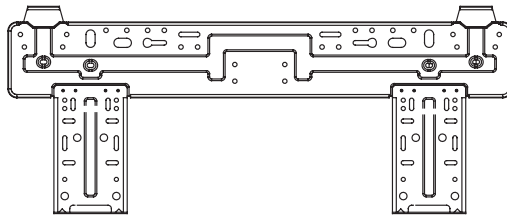
B3 Front Panel



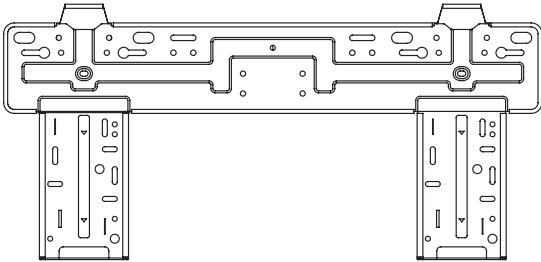
05, 07, 09K Wall-Mounting Plate



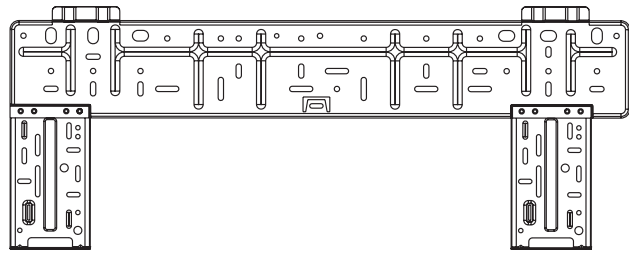
12K Wall-Mounting Plate



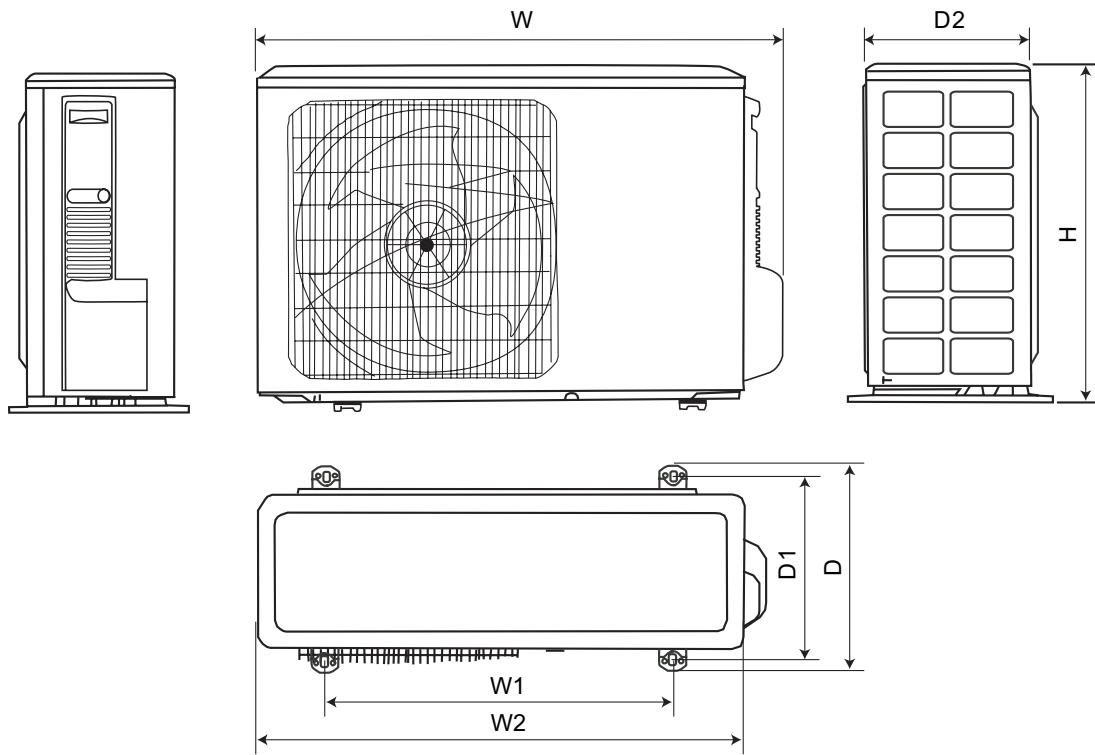
18K Wall-Mounting Plate



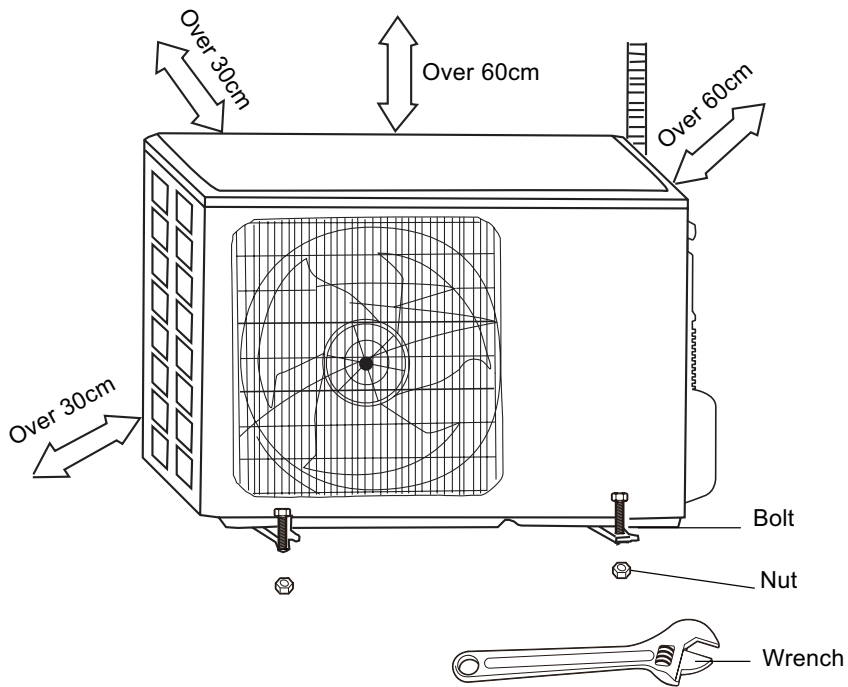
24K Wall-Mounting Plate



4. 2 Outline and installation dimensions of outdoor unit

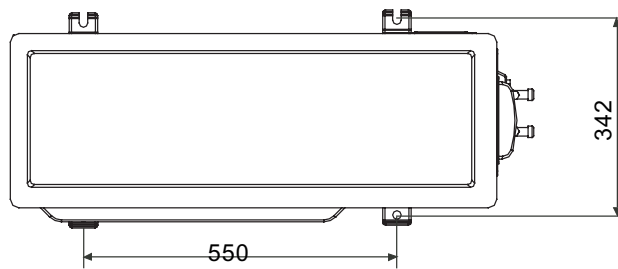
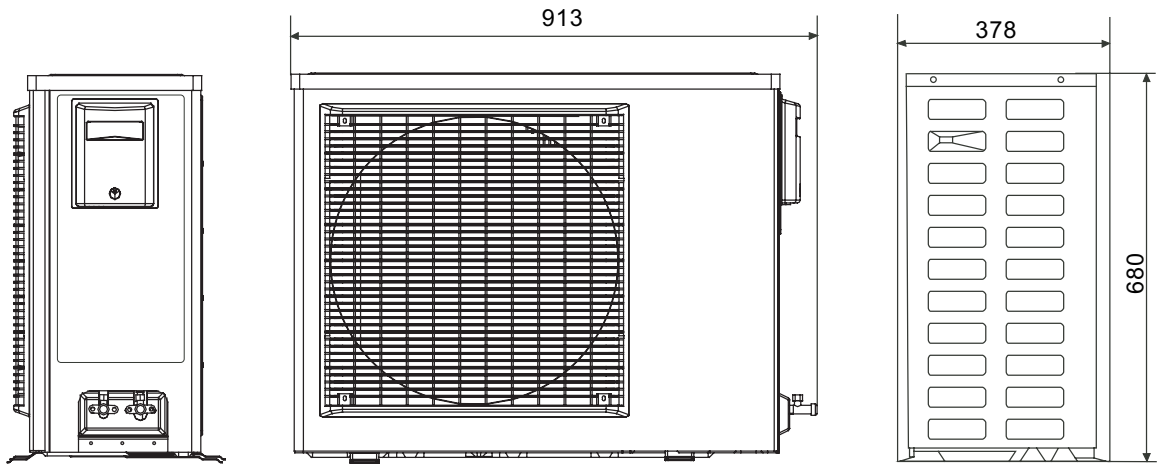


Unit:mm

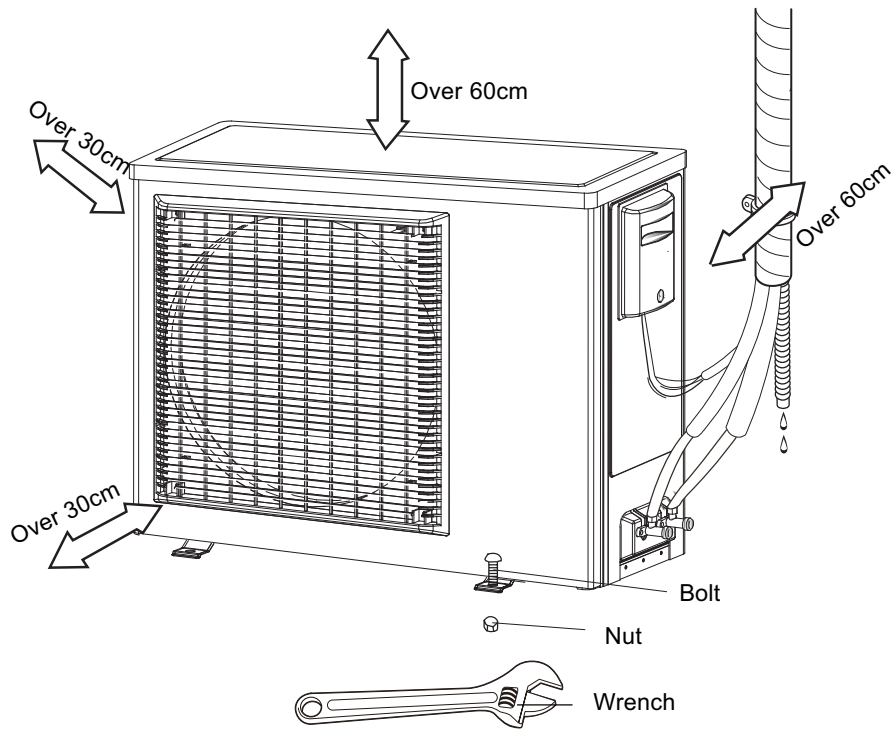


Model	W(mm)	W1(mm)	W2(mm)	H(mm)	D(mm)	D1(mm)	D2(mm)
05/07/09K	790	660	440	428	310	286	255
12K	798	710	510	540	320	286	256.6
18K	848	762	540	540	320	286	256.6

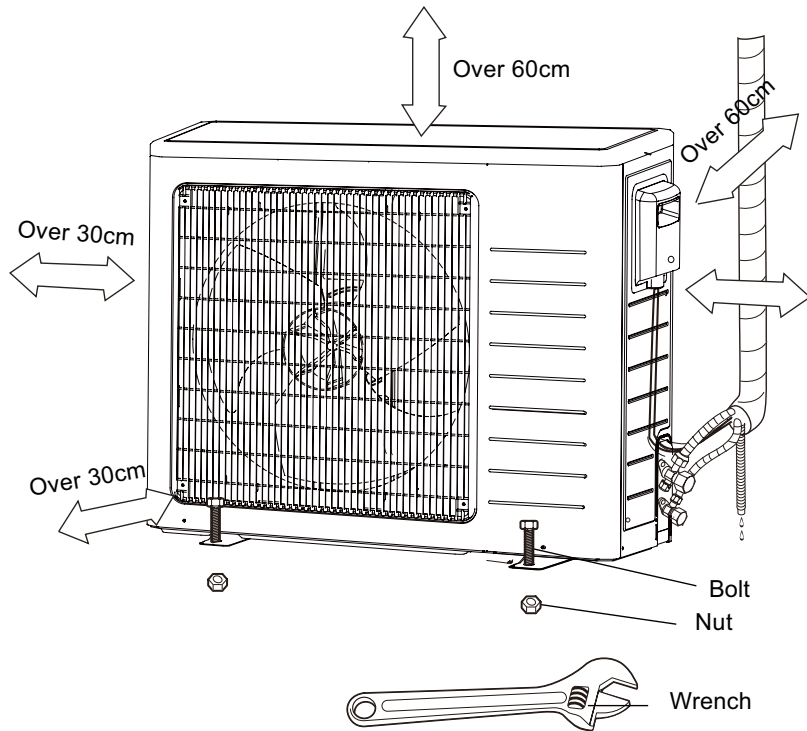
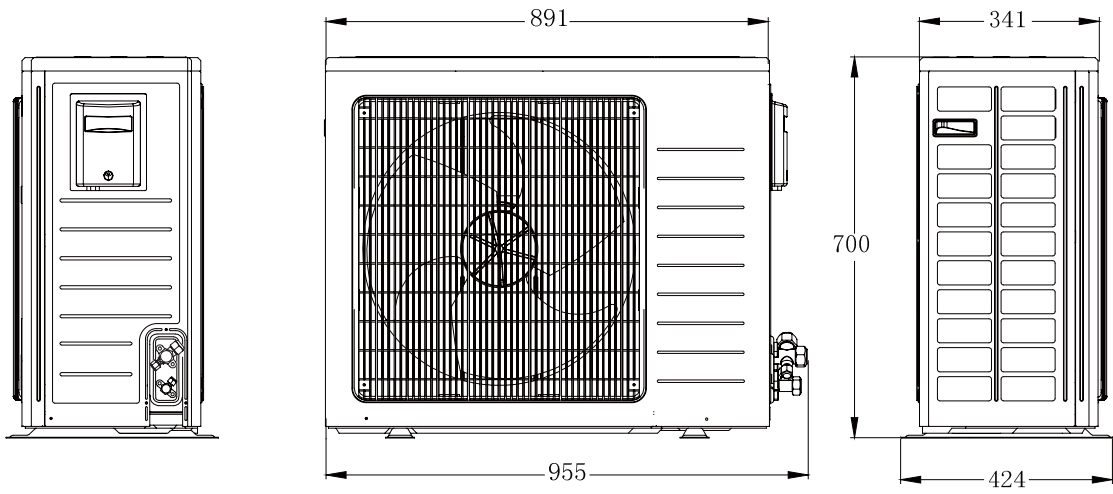
GWC24ND-K1NNB1A/O



Unit:mm

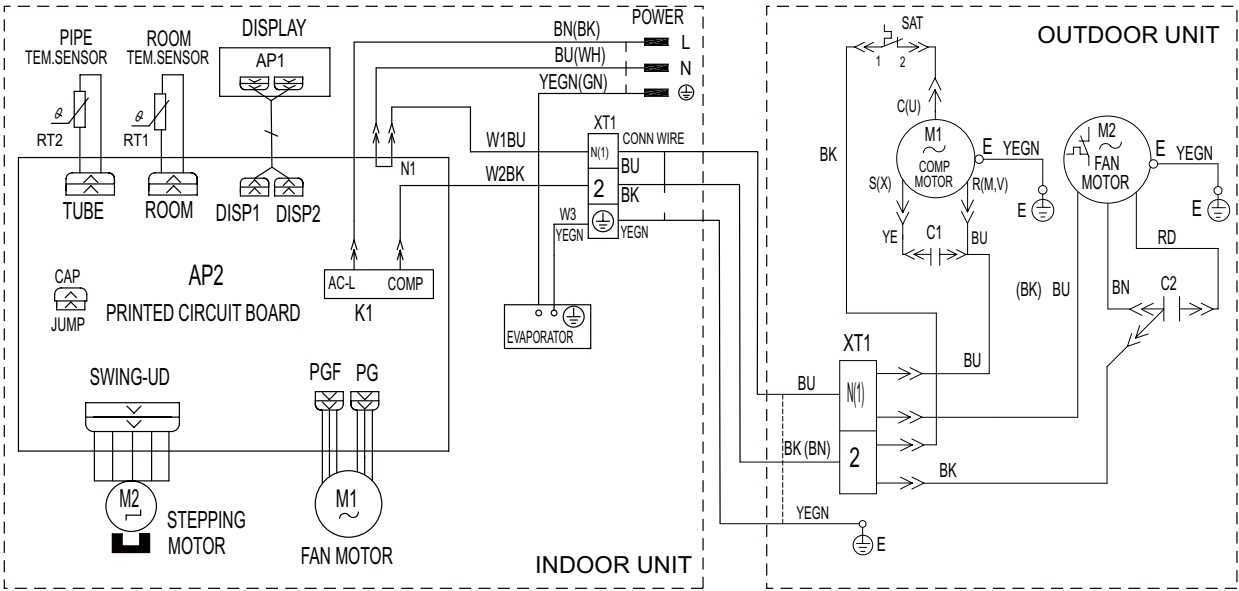


GWH24ND-K1NNB1A/O

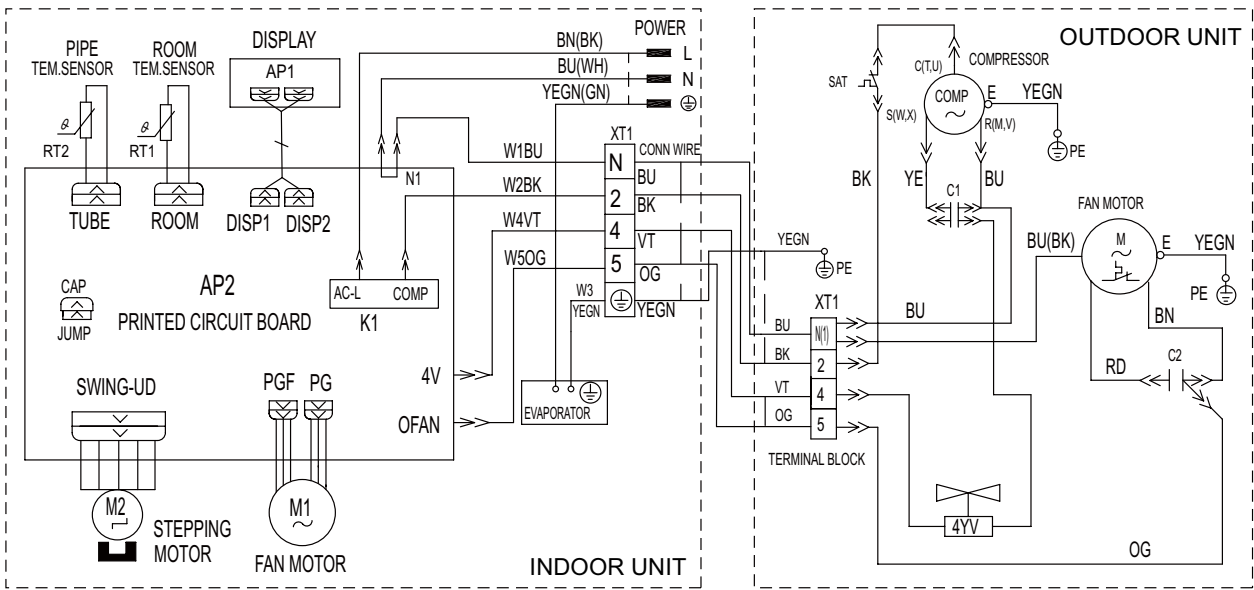


5 Electrical circuit diagram

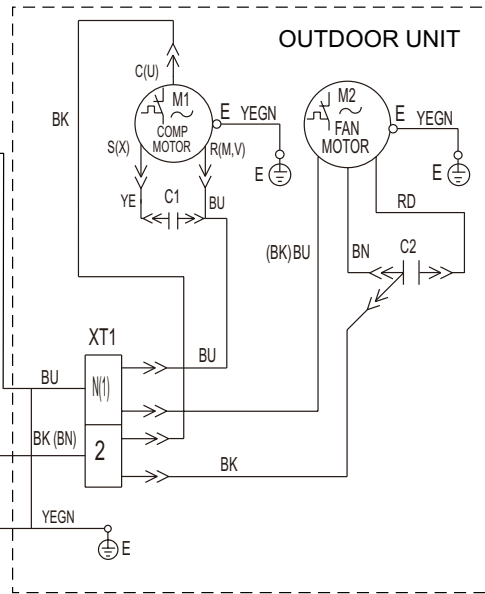
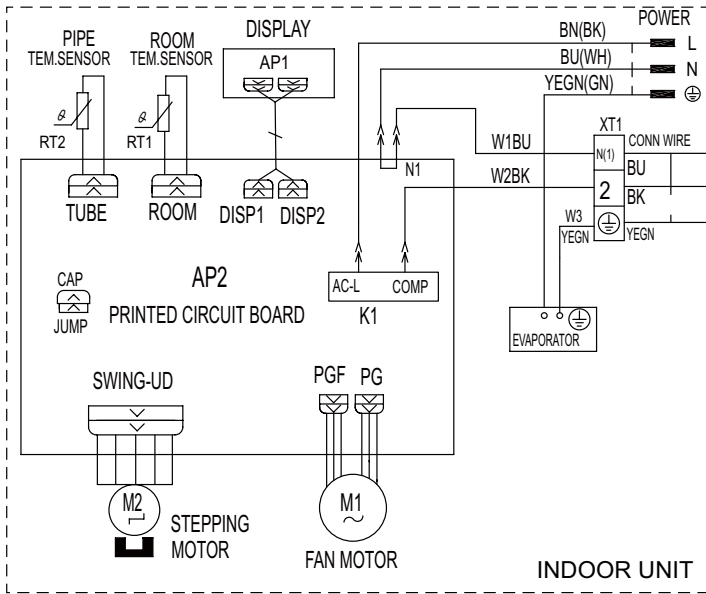
GWC05NA-K1NNB1A



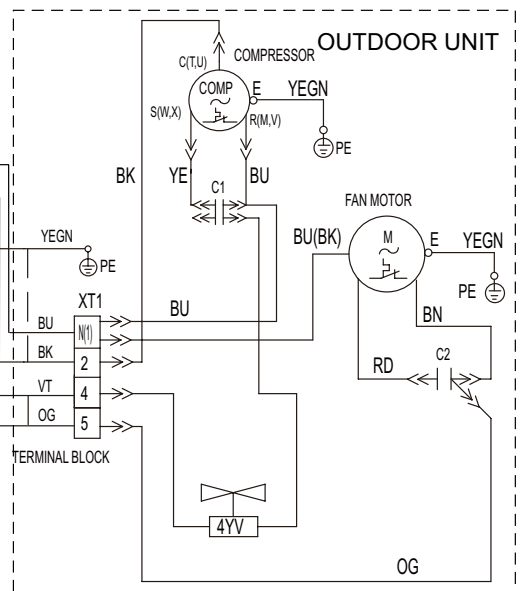
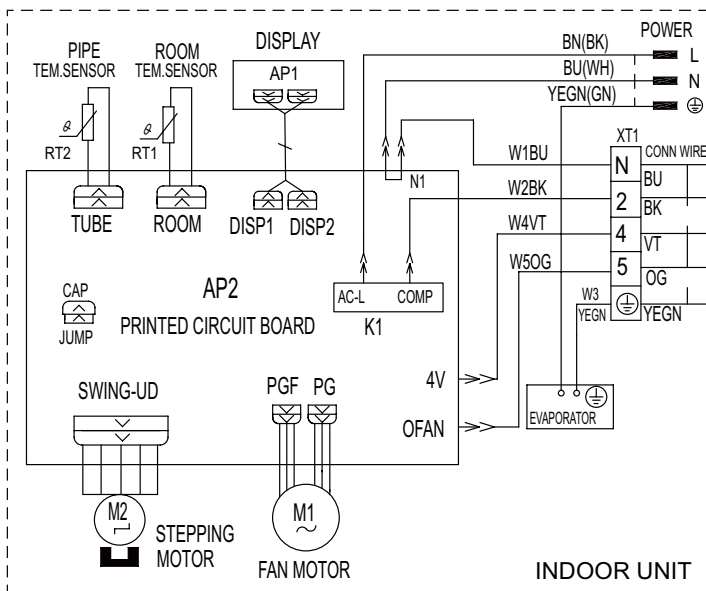
GWH05NA-K1NNB1A



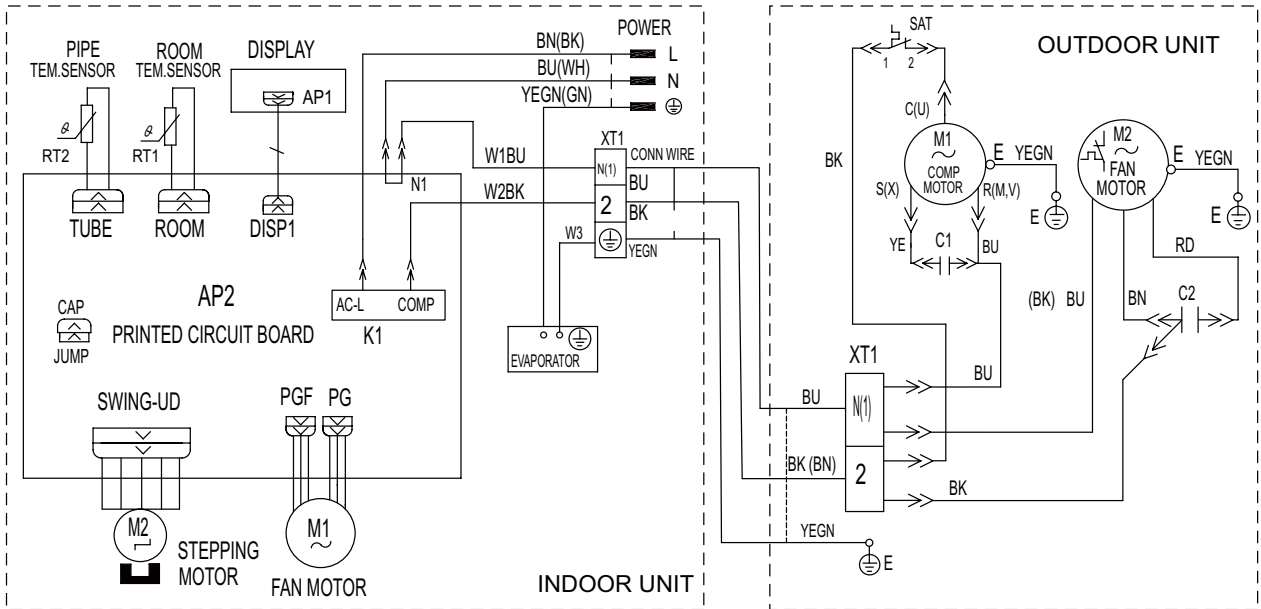
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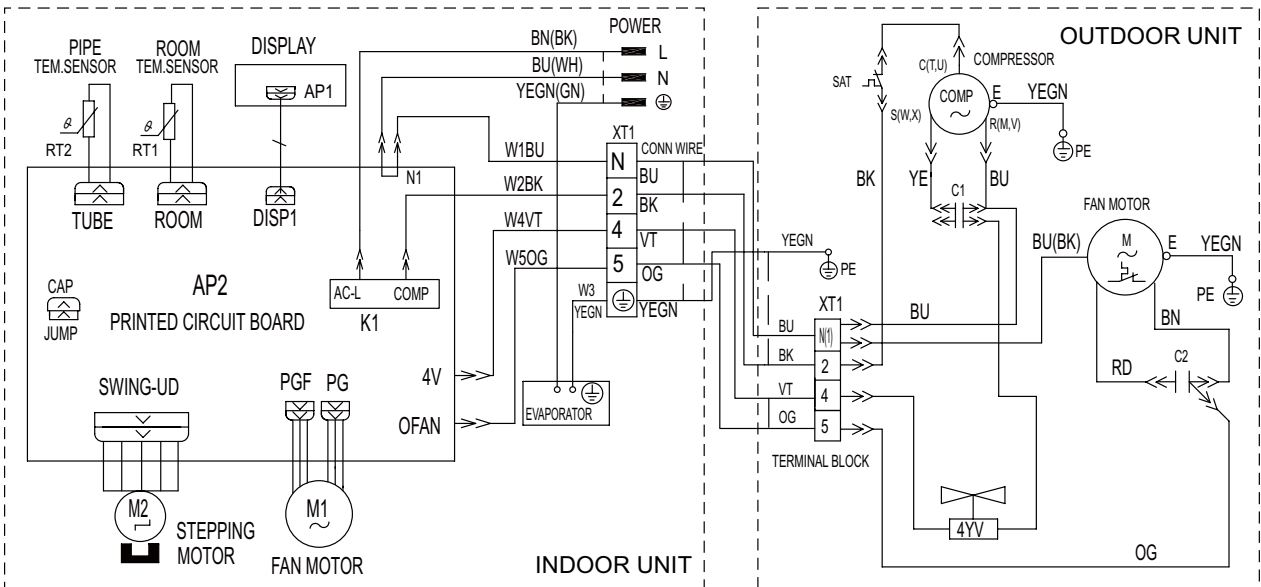
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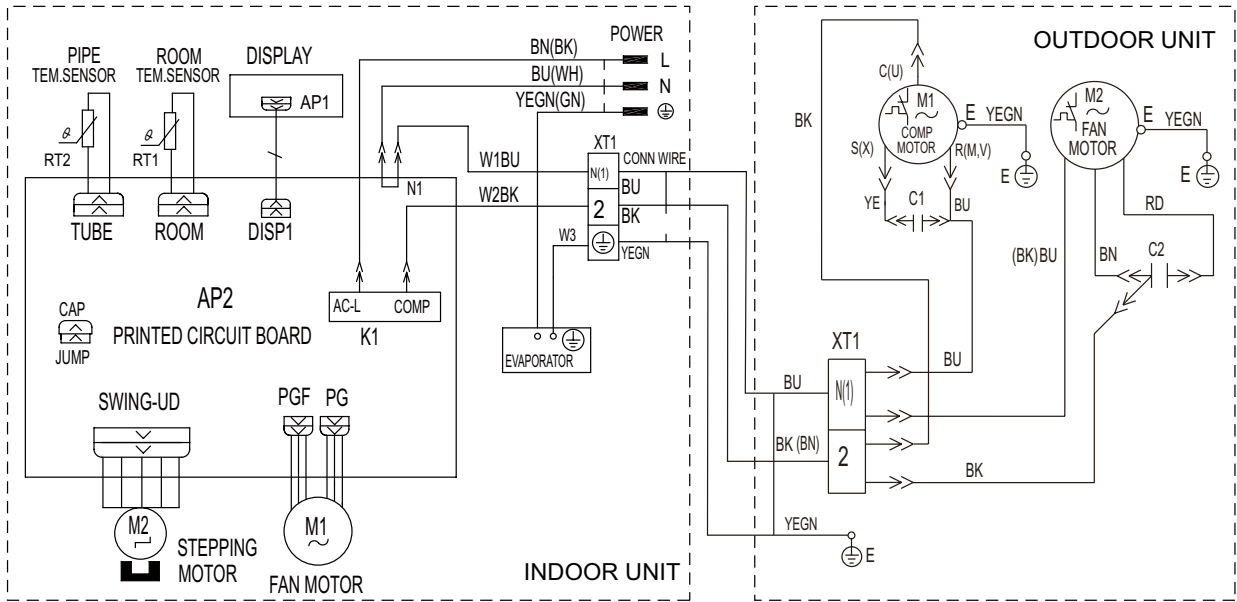
GWC05NA-K1NNB2A



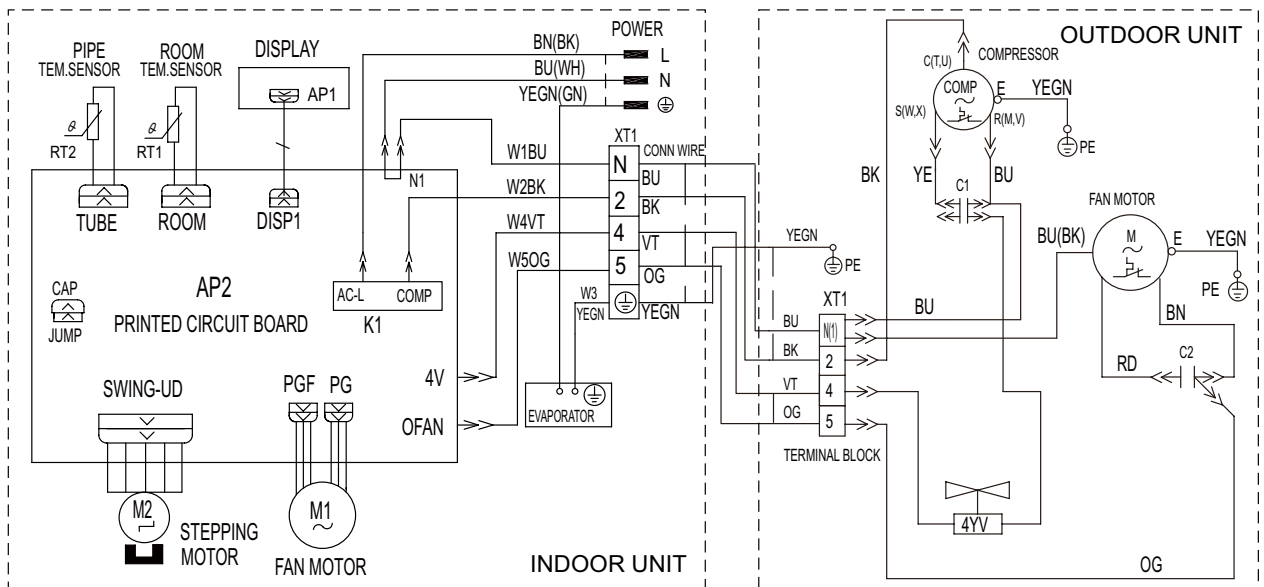
GWH05NA-K1NNB1A



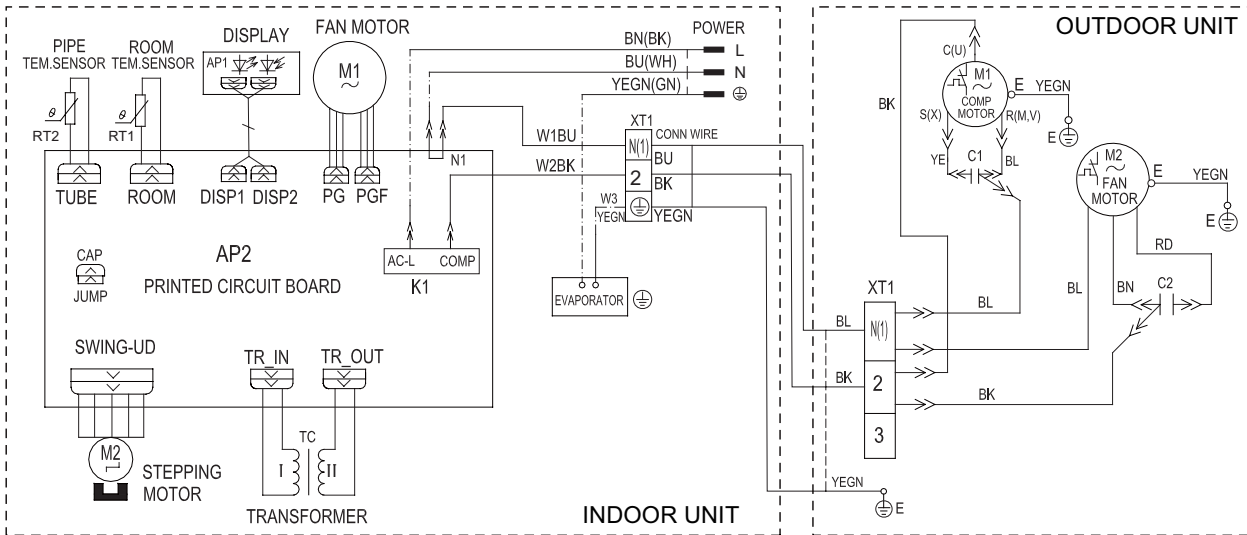
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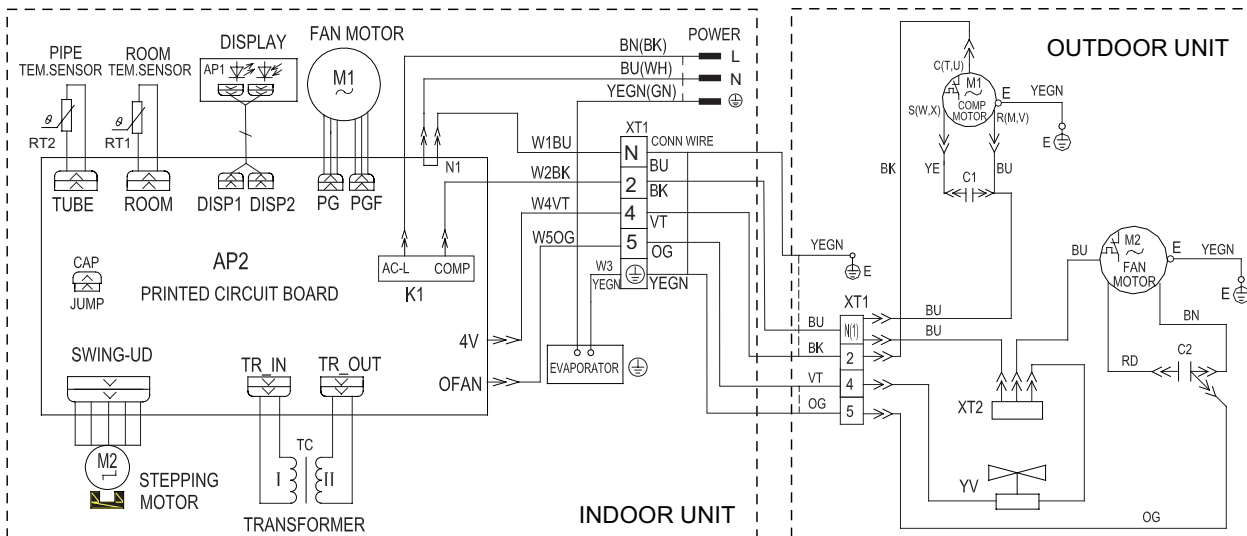
GWH07NA-K1NNB2A GWH09NA-K1NNB2A



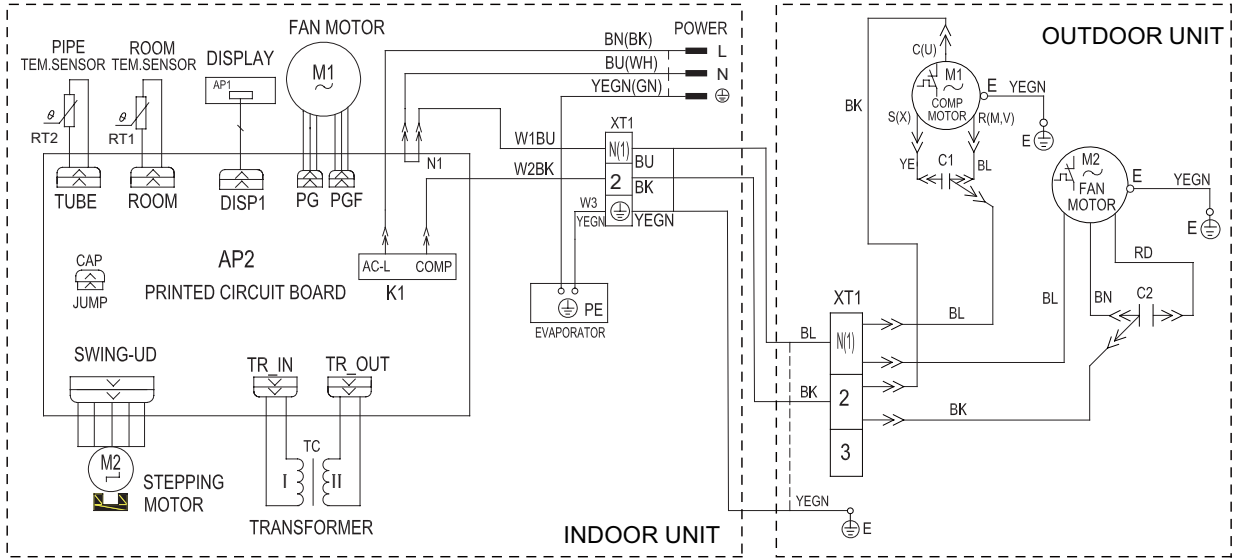
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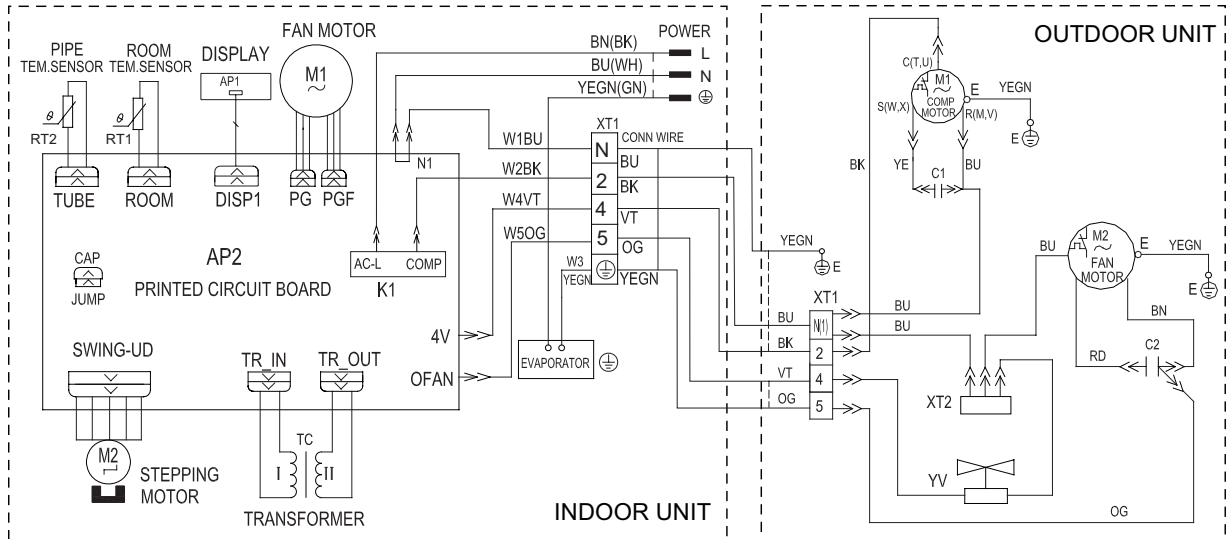
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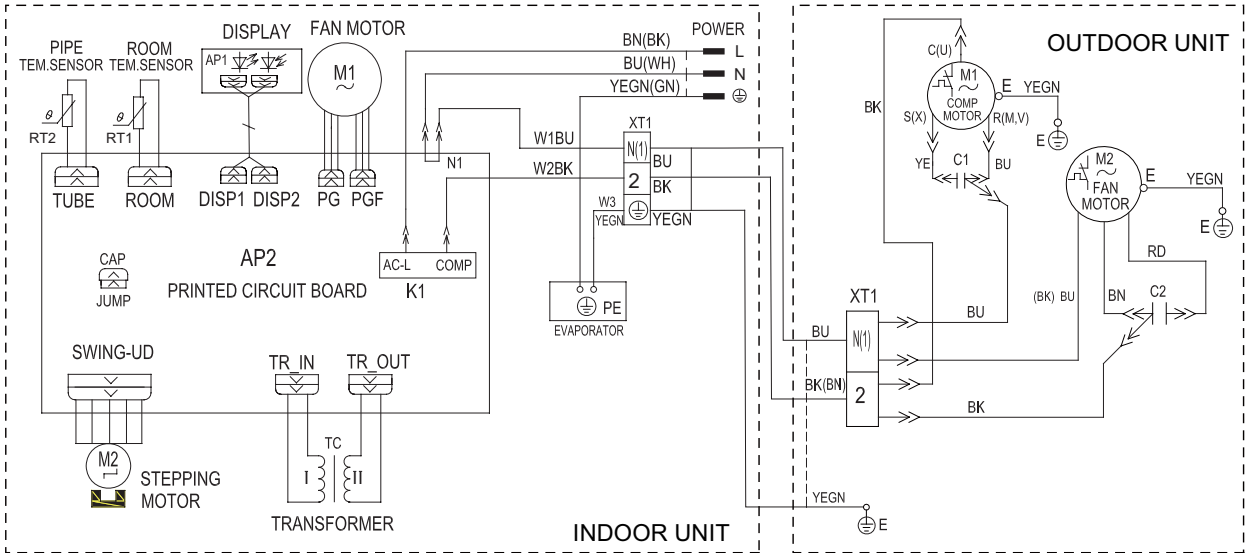
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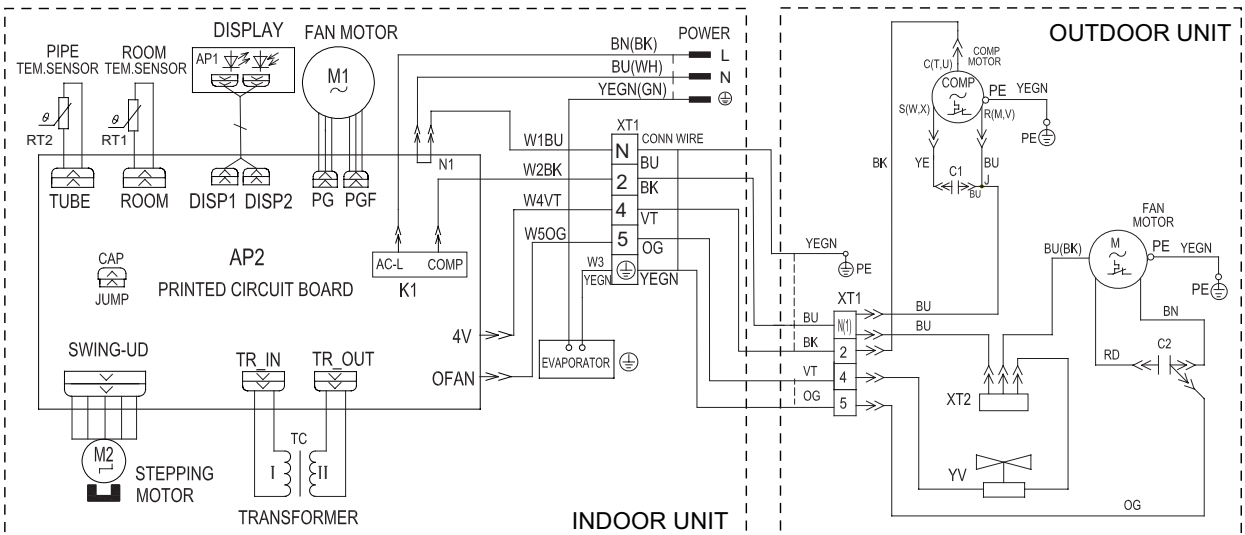
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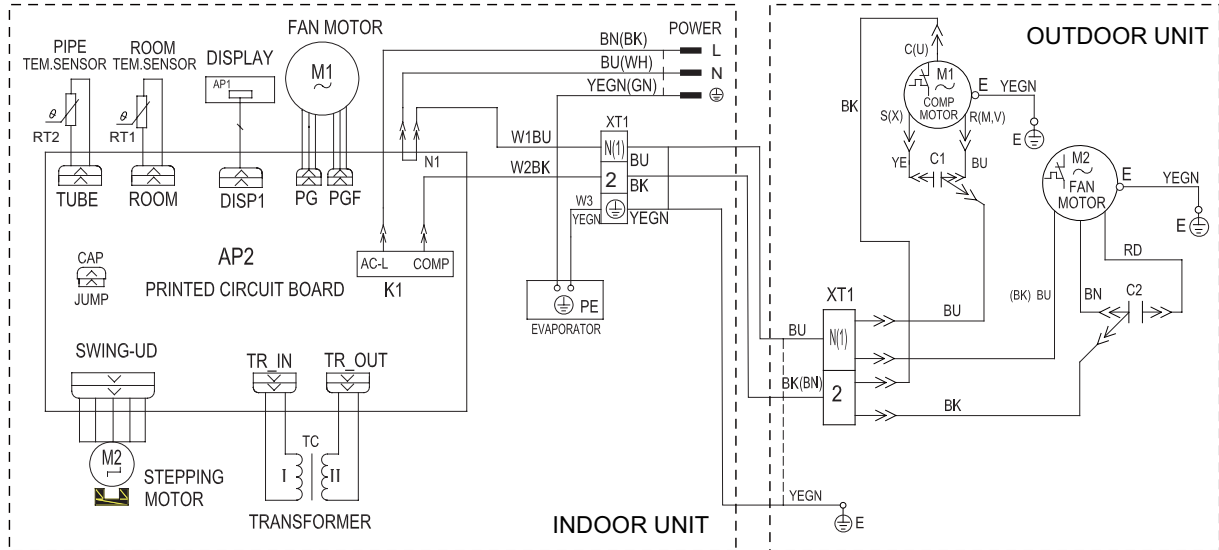
GWC18NC-K1NNB1A GWC18NC-K1NNB3A



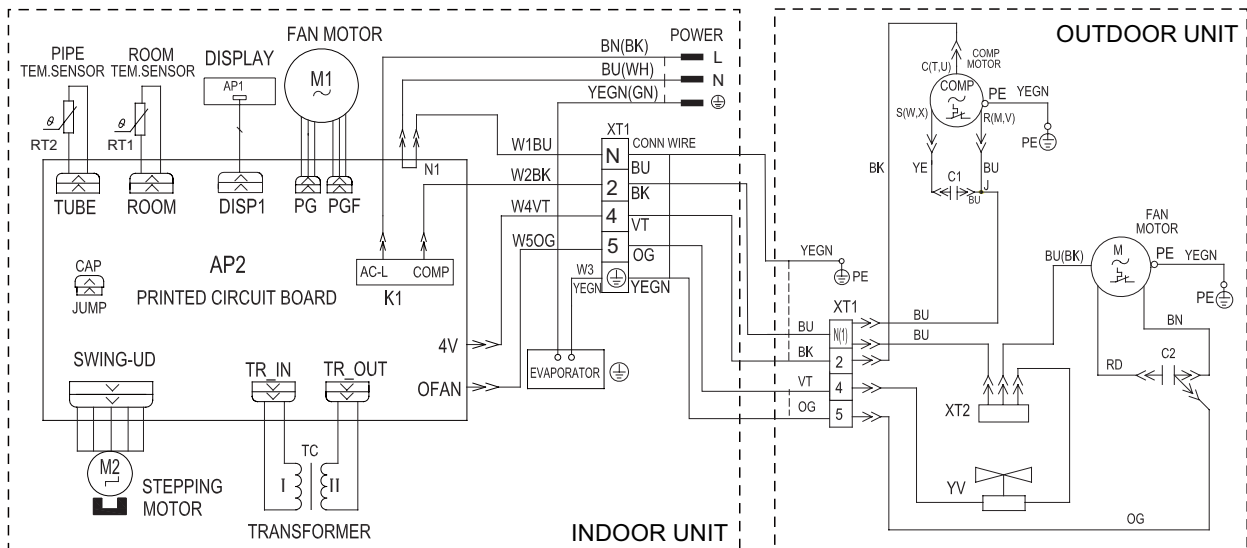
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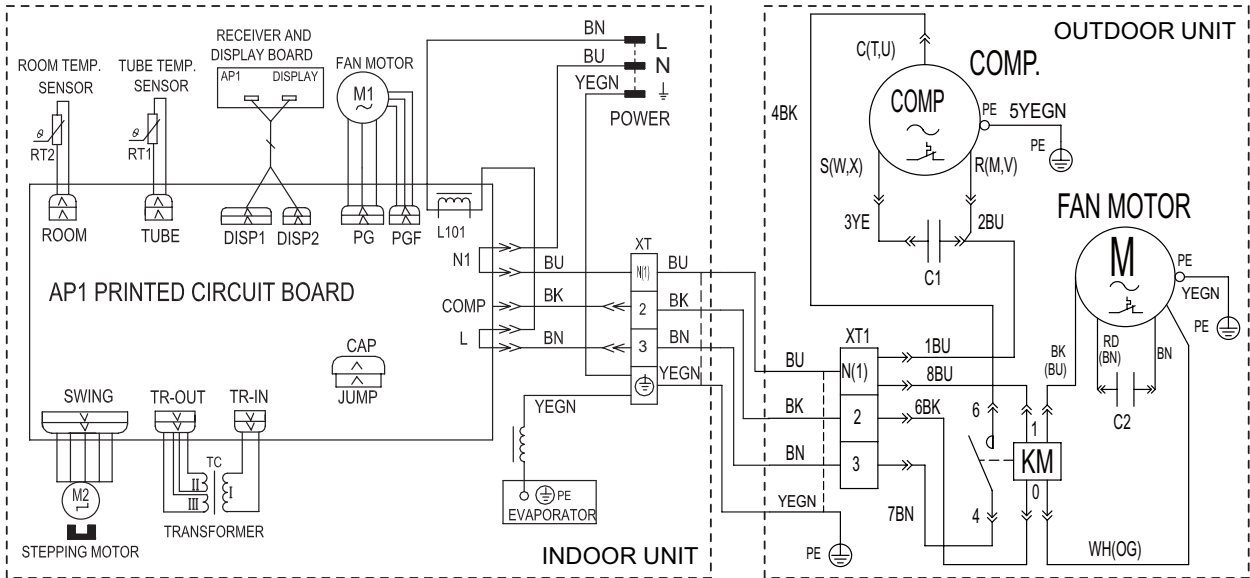
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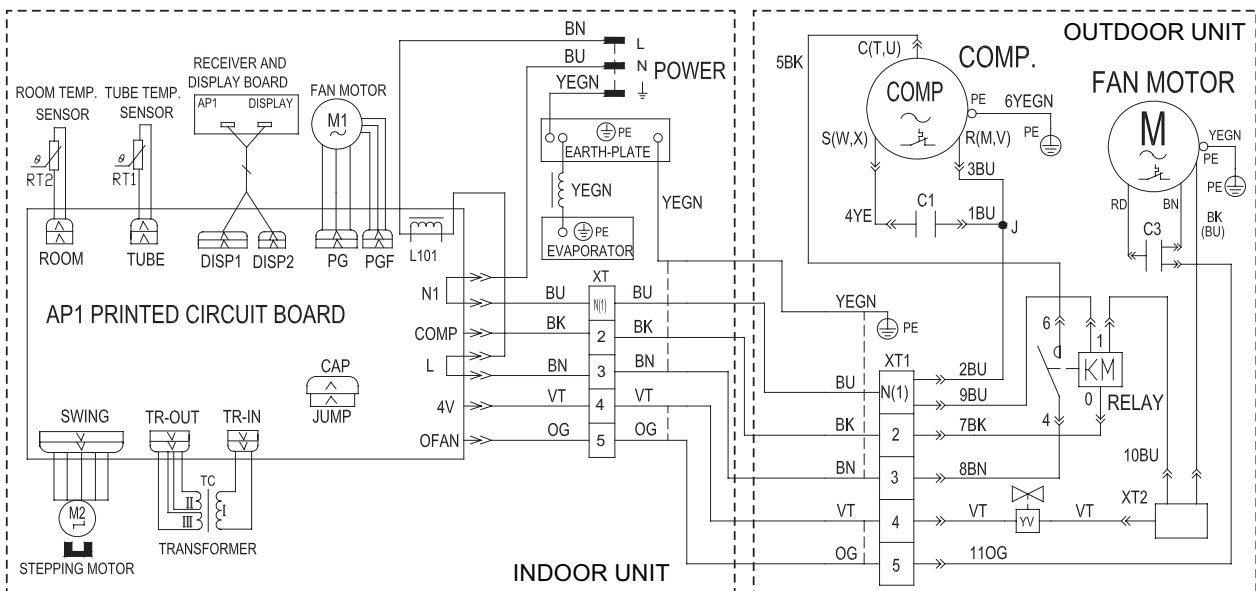
GWH18NC-K1NNB2A



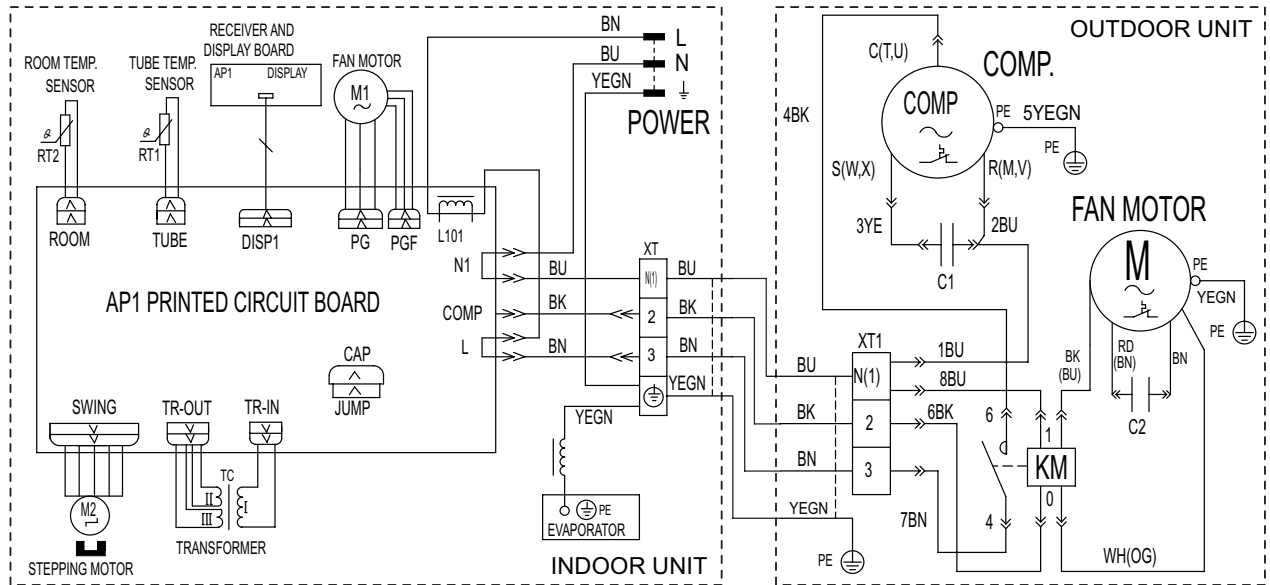
GWC24ND-K1NNB1A GWC24ND-K1NNB3A



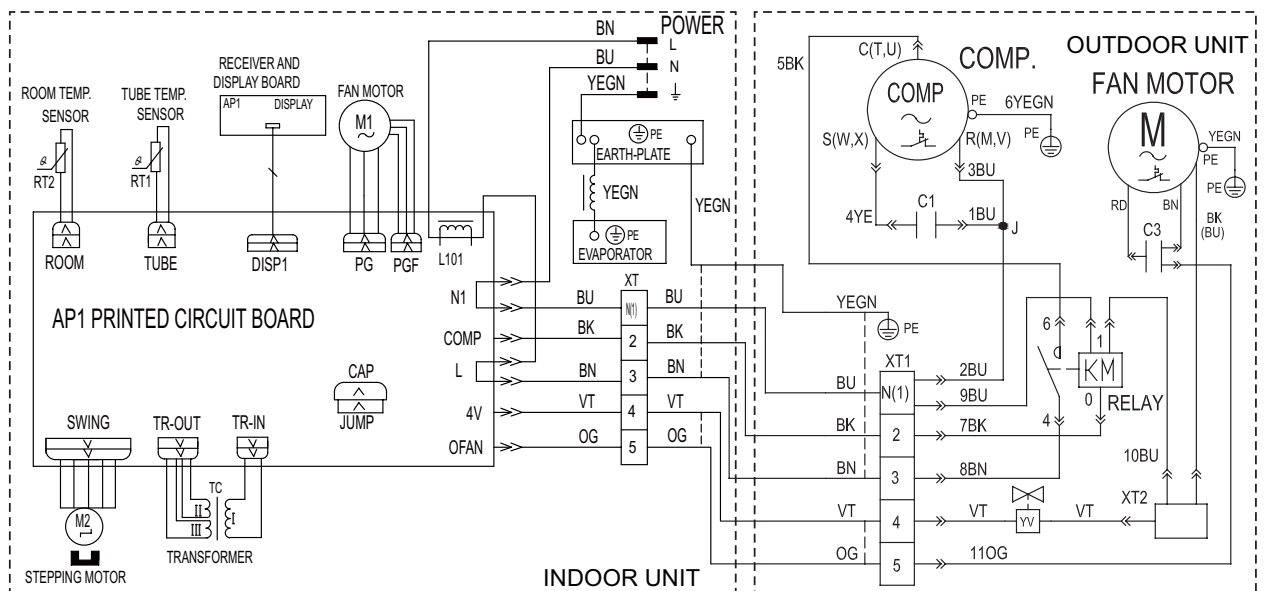
GWH24ND-K1NNB1A GWH24ND-K1NNB3A



GWC24ND-K1NNB2A



GWH24ND-K1NNB2A



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

6 PCB function manual and operation method

6.1 Manual of Controller Function 1

This function manual is used for 05K,07K,09K,12K,18K model, it will use Celsius unit for compiling, if there is Fahrenheit, it can use following formula:

1 Temperature parameter

- ◆ The room setting temperature(T_{set})
- ◆ The room ambient temperature (T_{amb})

2 Fundamental functions of the system

After the power is turned on, the separation time of two consecutive starting time of the compressor should not be less than 3min. under any condition. For the first time powering on, there is not 3min. delay for the compressor. Once the compressor is started, it will not stop in 6min as the variation of the indoor temperature.

(1) Cooling Mode

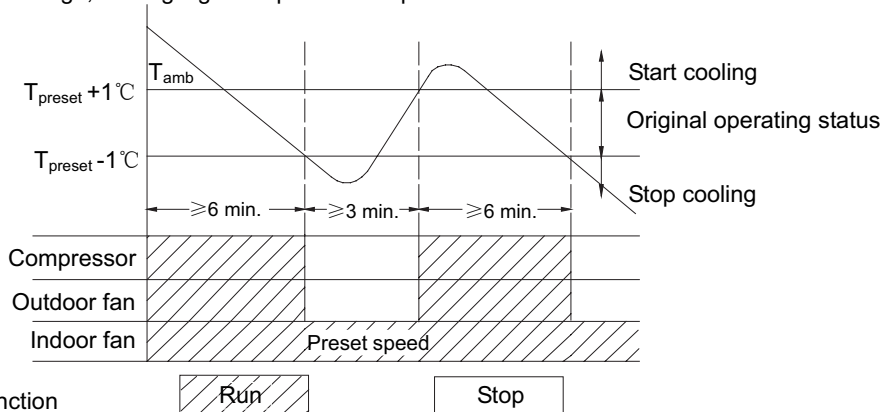
① Cooling Conditions and Process

When $T_{amb} \geq T_{preset} + 1^{\circ}C$, the unit will run under cooling mode, in which case the compressor and outdoor fan will start and the indoor fan will run at setting speed.

When $T_{amb} \leq T_{preset} - 1^{\circ}C$, the compressor and the outdoor fan will stop, the indoor fan will run at setting speed.

When $T_{preset} - 1^{\circ}C < T_{amb} < T_{preset} + 1^{\circ}C$, the unit will maintain its original operating status.

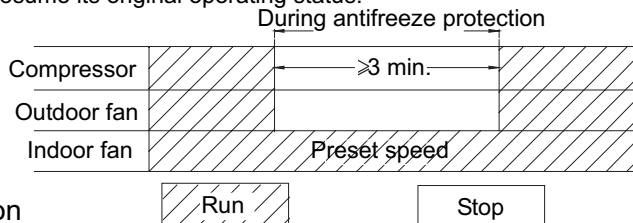
- Under this mode, the four-way valve is energized, the temperature setting range is 16~30°C, the display board displays operation sign, cooling sign and present temperature.



② Protection Function

◆ Antifreeze Protection

If it is detected that the system is under antifreeze protection, the compressor and outdoor fan will be stopped, and the indoor fan will run at setting speed. When antifreeze protection is released and the compressor has stopped for 3 minutes, the unit will resume its original operating status.



③ Over current Protection

When the system current is detected exceed 22A for 3S, the unit is operation under FAN mode. If the over current cancelled 3 minutes later, the unit will resume to the original status. If the over current protection occurs 6 times continuously (if the compressor works exceed 6 minutes continuously, the protection time will zero clearing), the unit stops and operation under FAN mode, when the unit is OFF by remote control, the unit will normally ON. Digital pipe displays error code "E5", indicator lamp blink (pause 3S and blink 5 times).

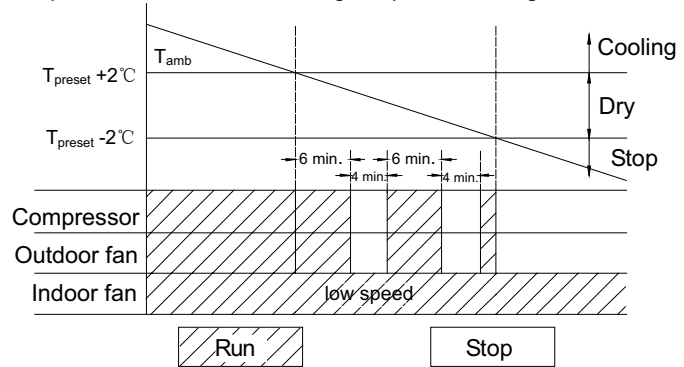
(2) DRY Mode

① **The conditions and process of DRY**

When $T_{\text{preset}} - 2^{\circ}\text{C} \leq T_{\text{amb.}} \leq T_{\text{preset}} + 2^{\circ}\text{C}$, the unit will run under DRY mode, in which case the indoor fan will keep run at low speed, the compressor and the outdoor fan will be stopped after 6 minutes. After 4 minutes, the compressor and the outdoor fan will be restarted. The dehumidifying process is so repeated in cycle.

When $T_{\text{amb.}} < T_{\text{preset}} - 2^{\circ}\text{C}$, the compressor and outdoor fan will be stopped, the indoor fan will run at low speed.

➤ Under this mode, the switchover valve will not be powered on, and the setting temperature range is $16 \sim 30^{\circ}\text{C}$.



② **Protection**

◆ **Antifreeze Protection**

Under cooling and dry condition, if it is detected that the system is under antifreeze protection, the compressor and outdoor fan will be stopped, and the indoor fan will run at low speed. When antifreeze protection is release and the compressor has stopped for 3 minutes, the complete unit will resume its original operating status. When the compressor satisfied that it operates 6 minutes and then stops 4 minutes, if it is detected that the system is under antifreeze protection, the compressor and outdoor fan will be stopped, and the indoor fan will run at low speed. When antifreeze protection is release and the compressor has stopped for 4 minutes, the complete unit will resume its original operating status.

③ **Other Protection**

Other protection is the same as the protection function under Cooling mode.

(3) **HEAT Mode (there is no this mode for cooling only unit)**

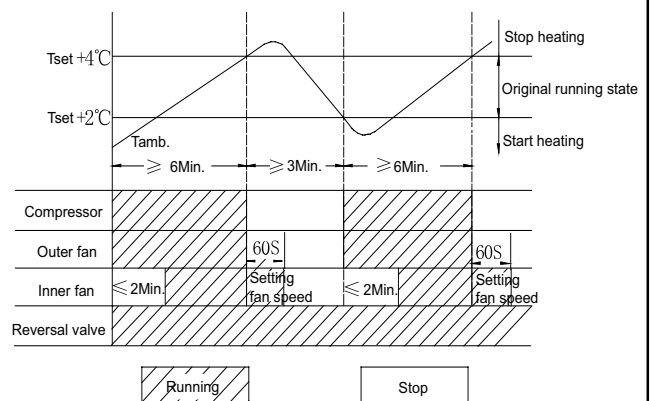
① **The conditions and process of heating**

When $T_{\text{amb}} \leq T_{\text{set}} + 2^{\circ}\text{C}$, the system enters heating running, in this case, the four-way valve, compressor, outer fan enter simultaneously running. The indoor fan will delay at most for 2min to run.

When $T_{\text{amb}} \geq T_{\text{set}} + 4^{\circ}\text{C}$, the compressor and outdoor fan will stop, but the four-way valve is still with power on, the indoor unit will run at setting fan speed for 60s then will stop.

When $T_{\text{set}} + 2^{\circ}\text{C} < T_{\text{amb}} < T_{\text{set}} + 4^{\circ}\text{C}$, the unit will maintain its original operating status.

➤ Under this mode, the four-way valve will be powered on, and the setting temperature range is $16 \sim 30^{\circ}\text{C}$.



② **Conditions and processes of defrost**

It will defrost automatically according to frost status and intelligent defrost be used. Dual 8 displays H1.

③ **Protection Function**

◆ **High Temp. Protection**

If it is detected that the evaporator tube temperature is too high, the outdoor fan will be stopped. When the tube temperature resumes to normal, the outdoor fan will be restarted.

- ◆ **Noise Silencing Protection:** If the unit is stopped by pressing ON/OFF, the reversal valve will be stopped after 2-minute lag; or 2 minutes will be delayed upon mode switching.

(4) FAN Mode

Under this mode, indoor fan motor runs at preset speed, compressor, indoor and outdoor unit, four-way valve and electric heater pipe will stop to operate.

- Under this mode, the setting temperature range is 16 ~30 °C. Display board displays running temp. and setting temp.

(5) Auto Mode

Under the mode, the system will choose running mode (COOL, HEAT, FAN) automatically by the changing of environment temperature. Display board displays running symbol, actual running mode symbol and preset temperature. There are 30S time delay protection for mode shift. The protection function is the same as it under any modes.

3 Other Control

(1) Timer

Main board have general TIMER function and clock TIMER function, different function remote controller have different TIMER.

① General TIMER:

TIMER ON: TIMER ON can be setting when the unit is OFF, when it reaches to the TIMER ON time, controller is running by original preset mode, timer spacing is 0.5h, and setting range is 0.5-24h.

TIMER OFF: TIMER OFF can be setting when the unit is ON, when the TIMER time reaches to system OFF, timer spacing is 0.5h, and setting range is 0.5-24h.

② Clock TIMER:

TIMER ON: If the setting timer is ON under the system is running, the system is still running; if the setting timer is ON when the unit is OFF, and the time which setting timer ON is over, the unit will run from the original setting mode.

TIMER OFF: If the setting timer is OFF under the system is OFF, the system remain stand-by status when the setting timer is OFF, and the time which setting timer OFF is over, the system stops to work.

TIMER Change:

The system under TIMER: the unit is ON/OFF can be controlled by ON/OFF button, and reset timer time as well, the system will run by the last setting mode.

The system is operation: TIMER ON and TIMER OFF can be set together, the system maintain the preset setting status until the time which setting timer OFF is over, system will stop to work.

The system is stopping: TIMER ON and TIMER OFF can be set together, the system maintain stop status until the time which setting timer ON is over, the system will start to work.

When the timer ON time is over, it will run under the setting mode, and the system stop to work when the timer OFF time is over. When the setting time of TIMER ON and TIMER OFF is the same, the unit will stop.

(2) AUTO Button

Press the button, the unit will run under AUTO mode, indoor fan motor will run under auto fan speed, press the button, the unit is OFF.

(3) Buzzer

Buzzer give out beep when the controller energized, button or receiving signal from remote controller.

(4) Sleep Function

The mode is valid under COOL and HEAT, the comfortable sleep curve can be chosen by different setting temperature.

COOL Mode:

(1) When the initial setting temperature range is 16-23°C, the temperature will increase 1°C per hour after SLEEP is ON, and maintain the temperature after increasing 3°C, running 7 hours later, the temperature will decrease 1°C, and then running under the temperature;

(2) When the initial setting temperature range is 24-27°C, the temperature will increase 1°C per hour after SLEEP is ON, and maintain the temperature after increasing 2°C, running 7 hours later, the temperature will decrease 1°C, and then running under the temperature;

(3) When the initial setting temperature range is 28-29°C, the temperature will increase 1°C per hour after SLEEP is ON, and maintain the temperature after increasing 1°C, running 7 hours later, the temperature will decrease 1°C, and then running under the temperature;

(4) When the initial setting temperature is 30°C, running 7 hours later, the temperature will decrease 1°C, and then running under the temperature

HEAT Mode

- (1) When the initial setting temperature is 16°C, the unit will run under the temperature
- (2) When the initial setting temperature range is 17-20°C, the temperature will decrease 1°C per hour after SLEEP is ON, and maintain the temperature after decreasing 1°C.
- (3) When the initial setting temperature range is 21-27°C, the temperature will decrease 1°C per hour after SLEEP is ON, and maintain the temperature after decreasing 2°C.
- (4) When the initial setting temperature range is 18-30°C, the temperature will decrease 1°C per hour after SLEEP is ON, and maintain the temperature after decreasing 3°C.

(5) Turbo

TURBO function can be set under HEAT and COOL mode.

(6) BLOW

BLOW function can be set under COOL and DRY mode.

(7) Auto Fan Control

In this mode, the indoor fan motor selects COOL, HEAT and FAN mode automatically according to the change of ambient temperature.

(8) SWING(up and down) Control

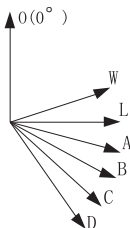
When the unit energized, the air deflector will anti-clockwise to the position "0" by swing (up and down) motor, close outlet port.

When the unit is ON, if there is no setting SWING function, under HEAT mode, lower louver (up and down) will clockwise to position "D"; under other modes, lower louver (up and down) will clockwise to position "L".

When the unit is ON and under SWING, the lower louver will waggle between W and D. Lower louver has 7 swing statuses: position "L", position "A", position "B", position "C", position "D", waggle between position "L" and position "D", stop at any position between "L" and "D" (the angle between L and D is equal angle).

When the unit is OFF, the air deflector is closed at position 0, swing is valid under SWING and indoor fan motor is running.

Remark: when setting the remote on position "L" to "B", "A" to "C", "B" to "D", the air deflector will waggle between position "W" to "D".



(9) Display

① Operation symbol and Mode symbol display

When the display symbol displays after energized, the indicator symbol displays red under stand-by status. The indicator symbol is light used by remote, and displays the preset running mode symbol (COOL, HEAT, DRY). All the display will turn off when the light button off.

② Dual 8 display

When the air-conditioner first energized, digital pipe defaults the present temperature displaying (setting temperature range is 16-30°C). The digital pipe displays the preset temperature when receiving the signal of display preset temperature; the digital pipe displays the preset indoor environment temperature when receiving the signal of ambient temperature, if remote controller set other statuses, the display will maintain the original status. When receiving a valid signal under display ambient temperature, displays preset temperature 5S and then back to ambient temperature displaying. The sensor malfunction for ambient temperature displays "F1", for indoor pipe displays "F2"; and jump cap malfunction protection displays "C5".

Partial models: When the setting temperature displays by remote controller, it will display the current preset temperature; only when the remote signal shift to the indoor ambient temperature display, the controller will display indoor ambient temperature for 5S, then back to preset temperature display.

(10) PG motor block protection

When the fan motor is ON, if the motor runs at low speed for a time, in order to prevent motor will protect automatically, stop operation, block displays; if it is ON, dual 8 digital pipe displays and block malfunction code is H6; if it is OFF, the block malfunction information doesn't display.

6.2 Controller Function Manual 2

The function manual is available for 24K model, the temperature point mentioned below is wrote by Celsius, if there is Fahrenheit, the shift formula between them is : $T_F = T_C \times 1.8 + 32$

1 Temperature parameter

- ◆ The room setting temperature (T_{preset})
- ◆ The room ambient temperature (T_{amb})

2 Basic Functions

Once energized, the compressor should in no way be restarted unless after 3-minute time interval at least. For the first energization, the compressor will be started without 3-minute lag. The compressor, once started, will not be stopped within 6 minutes with the change of room temperature.

(1) Cooling Mode

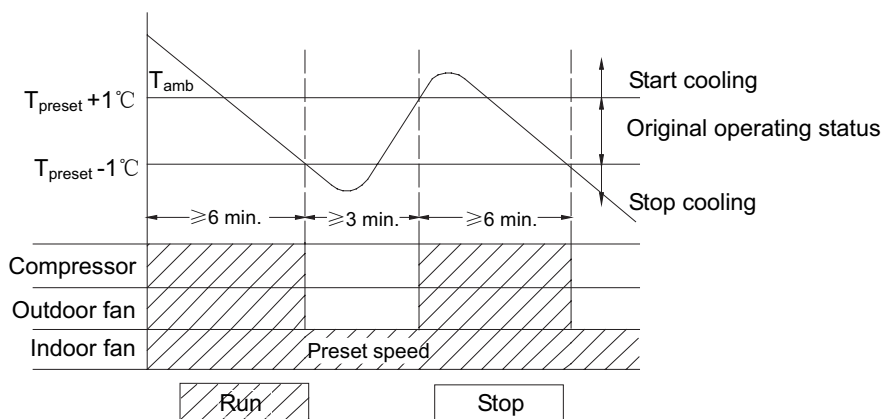
① Cooling Conditions and Process

When $T_{\text{amb}} \geq T_{\text{preset}} + 1^\circ\text{C}$, the unit will run under cooling mode, in which case the compressor and outdoor fan will start and the indoor fan will run at setting speed.

When $T_{\text{amb}} \leq T_{\text{preset}} - 1^\circ\text{C}$, the compressor and the outdoor fan will stop, the indoor fan will run at setting speed.

When $T_{\text{preset}} - 1^\circ\text{C} < T_{\text{amb}} < T_{\text{preset}} + 1^\circ\text{C}$, the unit will maintain its original operating status.

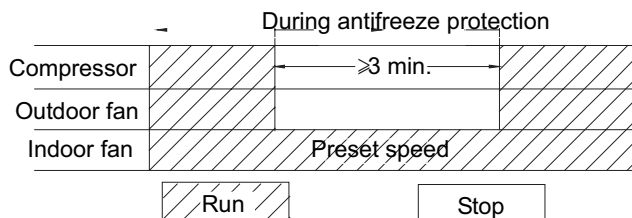
- Under this mode, the switchover valve will not be powered on, and the setting temperature range is $16 \sim 30^\circ\text{C}$.



② Protection

◆ Antifreeze Protection

If it is detected that the system is under antifreeze protection, the compressor and outdoor fan will be stopped, and the indoor fan will run at setting speed. When antifreeze protection is released and the compressor has stopped for 3 minutes, the unit will resume its original operating status.



③ Over Current Protection

When the system current is detected exceed 22A for 3S, the unit is operation under FAN mode. If the over current cancelled 3 minutes later, the unit will resume to the original status. If the over current protection occurs 6 times continuously (if the compressor works exceed 6 minutes continuously, the protection time will zero clearing), the unit stops and operation under FAN mode, when the unit is OFF by remote control, the unit will normally ON. Digital pipe displays error code "E5", indicator lamp blink (pause 3S and blink 5 times).

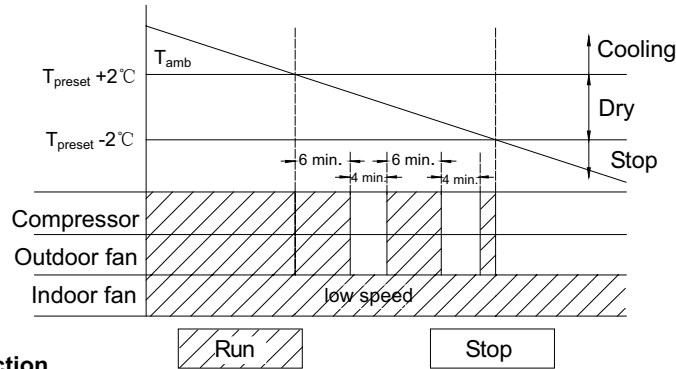
(2) DRY Modes

① **The conditions and process of DRY**

When $T_{\text{preset}} - 2^{\circ}\text{C} \leq T_{\text{amb.}} \leq T_{\text{preset}} + 2^{\circ}\text{C}$, the unit will run under DRY mode, in which case the indoor fan will keep run at low speed, the compressor and the outdoor fan will be stopped after 6 minutes. After 4 minutes, the compressor and the outdoor fan will be restarted. The dehumidifying process is so repeated in cycle.

When $T_{\text{amb.}} < T_{\text{preset}} - 2^{\circ}\text{C}$, the compressor and outdoor fan will be stopped, the indoor fan will run at low speed.

- Under this mode, the switchover valve will not be powered on, and the setting temperature range is $16 \sim 30^{\circ}\text{C}$.



② **Protection**

◆ **Antifreeze Protection**

Under cooling and dry condition, if it is detected that the system is under antifreeze protection, the compressor and outdoor fan will be stopped, and the indoor fan will run at low speed. When antifreeze protection is release and the compressor has stopped for 3 minutes, the complete unit will resume its original operating status. When the compressor satisfied that it operates 6 minutes and then stops 4 minutes, if it is detected that the system is under antifreeze protection, the compressor and outdoor fan will be stopped, and the indoor fan will run at low speed. When antifreeze protection is release and the compressor has stopped for 4 minutes, the complete unit will resume its original operating status.

③ **Other Protection**

Other protection is the same as the protection function under Cooling mode.

(3) **HEAT Mode (there is no this mode for cooling only unit)**

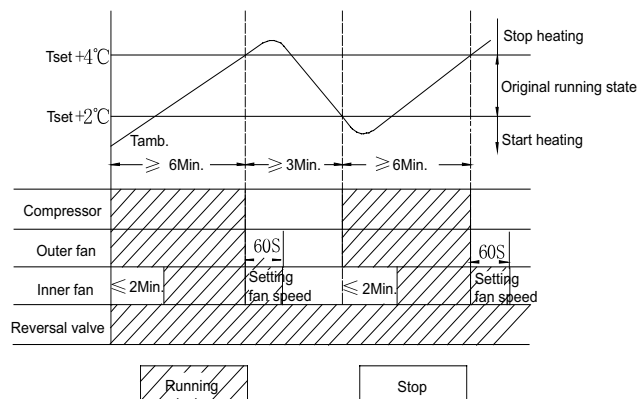
① **The conditions and process of heating**

When $T_{\text{amb}} \leq T_{\text{set}} + 2^{\circ}\text{C}$, the system enters heating running, in this case, the four-way valve, compressor, outer fan enter simultaneously running. The indoor fan will delay at most for 2min to run.

When $T_{\text{amb}} \geq T_{\text{set}} + 4^{\circ}\text{C}$, the compressor and outdoor fan will stop, but the four-way valve is still with power on, the indoor unit will run at setting fan speed for 60s then will stop.

When $T_{\text{set}} + 2^{\circ}\text{C} < T_{\text{amb}} < T_{\text{set}} + 4^{\circ}\text{C}$, the unit will maintain its original operating status.

- Under this mode, the four-way valve will be powered on, and the setting temperature range is $16 \sim 30^{\circ}\text{C}$.



② **Conditions and processes of defrost**

It will defrost automatically according to frost status and intelligent defrost be used. Dual 8 displays H1.

③ **Protection Function**

◆ **High Temp. Protection**

If it is detected that the evaporator tube temperature is too high, the outdoor fan will be stopped. When the tube temperature resumes to normal, the outdoor fan will be restarted.

- ◆ **Noise Silencing Protection:** If the unit is stopped by pressing ON/OFF, the reversal valve will be stopped after 2-minute lag; or 2 minutes will be delayed upon mode switching.

④ Over Current Protection

Over current protection is the same as it under COOL mode(indoor fan motor will below residual heat).

(4) FAN Mode

Under this mode, indoor fan motor runs at preset speed, compressor, outdoor fan motor, four-way valve and will stop to operate.

➤ Under this mode, the setting temperature range is 16 ~30 °C . Display board displays running temp. and setting temp.

(5) Auto Mode

Under the mode, the system will choose running mode (COOL, HEAT, FAN) automatically by the changing of environment temperature. Display board displays running symbol, actual running mode symbol and preset temperature. There are 30S time delay protection for mode shift. The protection function is the same as it under any modes.

3 Other Control

(1) Timer

Main board have general TIMER function and clock TIMER function, different function remote controller have different TIMER.

① General TIMER:

TIMER ON: TIMER ON can be setting when the unit is OFF, when it reaches to the TIMER ON time, controller is running by original preset mode, timer spacing is 0.5h, and setting range is 0.5-24h.

TIMER OFF: TIMER OFF can be setting when the unit is ON, when the TIMER time reaches to system OFF, timer spacing is 0.5h, and setting range is 0.5-24h.

② Clock TIMER:

TIMER ON: If the setting timer is ON under the system is running, the system is still running; if the setting timer is ON when the unit is OFF, and the time which setting timer ON is over, the unit will run from the original setting mode.

TIMER OFF: If the setting timer is OFF under the system is OFF, the system remain stand-by status when the setting timer is OFF, and the time which setting timer OFF is over, the system stops to work.

TIMER Change:

The system under TIMER: the unit is ON/OFF can be controlled by ON/OFF button, and reset timer time as well, the system will run by the last setting mode.

The system is operation: TIMER ON and TIMER OFF can be set together, the system maintain the preset setting status until the time which setting timer OFF is over, system will stop to work.

The system is stopping: TIMER ON and TIMER OFF can be set together, the system maintain stop status until the time which setting timer ON is over, the system will start to work.

When the timer ON time is over, it will run under the setting mode, and the system stop to work when the timer OFF time is over. When the setting time of TIMER ON and TIMER OFF is the same, the unit will stop.

(2) AUTO Button

Press the button, the unit will run under AUTO mode, indoor fan motor will run under auto fan speed, press the button, the unit is OFF.

(3) Buzzer

Buzzer give out beep when the controller energized, button or receiving signal from remote controller.

(4) Sleep Function

The mode is valid under COOL and HEAT, the comfortable sleep curve can be chosen by different setting temperature.

COOL Mode:

(1) When the initial setting temperature range is 16-23°C, the temperature will increase 1°C per hour after SLEEP is ON, and maintain the temperature after increasing 3°C, running 7 hours later, the temperature will decrease 1°C, and then running under the temperature;

(2) When the initial setting temperature range is 24-27°C, the temperature will increase 1°C per hour after SLEEP is ON, and maintain the temperature after increasing 2°C, running 7 hours later, the temperature will decrease 1°C, and then running under the temperature;

(3) When the initial setting temperature range is 28-29°C, the temperature will increase 1°C per hour after SLEEP is ON, and maintain the temperature after increasing 1°C, running 7 hours later, the temperature will decrease 1°C, and then running under the temperature;

(4) When the initial setting temperature is 30°C, running 7 hours later, the temperature will decrease 1°C, and then running under the temperature

HEAT Mode

- (1) When the initial setting temperature is 16°C, the unit will run under the temperature
- (2) When the initial setting temperature range is 17-20°C, the temperature will decrease 1°C per hour after SLEEP is ON, and maintain the temperature after decreasing 1°C.
- (3) When the initial setting temperature range is 21-27°C, the temperature will decrease 1°C per hour after SLEEP is ON, and maintain the temperature after decreasing 2°C.
- (4) When the initial setting temperature range is 18-30°C, the temperature will decrease 1°C per hour after SLEEP is ON, and maintain the temperature after decreasing 3°C.

(5) Turbo

TURBO function can be set under HEAT and COOL mode.

(6) BLOW

BLOW function can be set under COOL and DRY mode.

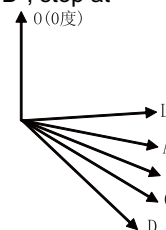
(7) Auto Fan Control

In this mode, the indoor fan motor selects COOL, HEAT and FAN mode automatically according to the change of ambient temperature.

(8) SWING(up and down) Control

When the unit energized, the air deflector will anti-clockwise to the position "0" by swing (up and down) motor, close outlet port. When the unit is ON, if there is no setting SWING function, under HEAT mode, lower louver (up and down) will clockwise to position "D"; under other modes, lower louver (up and down) will clockwise to position "L". When the unit is ON and under SWING, the lower louver will waggle between L and D. Lower louver has 7 swing statuses: position "L", position "A", position "B", position "C", position "D", waggle between position "L" and position "D", stop at any position between "L" and "D" (the angle between L and D is equal angle). When the unit is OFF, the air deflector is closed at position 0, swing is valid under SWING and indoor fan motor is running.

Remark: when setting the remote on position "L" to "B", "A" to "C", "B" to "D", the air deflector will waggle between position "L" to "D".



(9) Display

① Operation symbol and Mode symbol display

When the display symbol displays after energized, the indicator symbol displays red under stand-by status. The indicator symbol is light used by remote, and displays the preset running mode symbol (COOL, HEAT, DRY). All the display will turn off when the light button off.

② Dual 8 display

When the air-conditioner first energized, digital pipe defaults the present temperature displaying (setting temperature range is 16-30°C). The digital pipe displays the preset temperature when receiving the signal of display preset temperature; the digital pipe displays the preset indoor environment temperature when receiving the signal of ambience temperature, if remote controller set other statuses, the display will maintain the original status. When receiving a valid signal under display ambience temperature, displays preset temperature 5S and then back to ambience temperature displaying. The sensor malfunction for ambience temperature displays "F1", for indoor pipe displays "F2"; jump cap malfunction protection displays "C5"; and over current protection displays "E5".

Partial models: When the setting temperature displays by remote controller, it will display the current preset temperature; only when the remote signal shift to the indoor ambience temperature display, the controller will display indoor ambience temperature for 5S, then back to preset temperature display.

(10) PG motor block protection

When the fan motor is ON, if the motor runs at low speed for a time, in order to prevent motor will protect automatically, stop operation, block displays; if it is ON, dual 8 digital pipe displays and block malfunction code is H6; if it is OFF, the block malfunction information doesn't display.

(11) Power-fail memory function

Memory contents: mode, swing (up and down), light, preset temperature, preset fan speed.

The unit is ON automatically according to memory content after re-energized. There is no setting timer function in the last remote order, the system memory the last remote order and running under it. There is general timer function in the last remote order; the unit will performance the last remote order if the system is power-off and timer time haven't over, the timer time will calculate from re-energized time. There is timer function in the last remote order, and the timer time is overdue, the unit will power-off before the setting TIMER ON and TIMER OFF, it will run under before setting status after re-energized, no timer again. Clock timer doesn't have memory.

6.3 Operation of wireless remote control

1. Names and functions of wireless remote control

Note: Be sure that there are no obstructions between receiver and remote controller; Don't drop or throw the remote control; Don't let any liquid in the remote control and put the remote control directly under the sunlight or any place where is very hot.

Signal transmitter



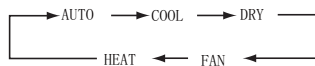
Remote control

ON/OFF **ON/OFF button**

- Press this button, the unit will be turned on, press it once more, the unit will be turned off. When turning on or turning off the unit, the Timer, Sleep function will be canceled, but the presetting time is still remained.

MODE **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).



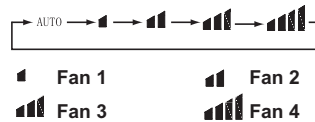
- AUTO ◀
- COOL ◀
- DRY ◀
- FAN ◀
- HEAT ◀ (Only for cooling and heating unit.)

SLEEP **SLEEP button**

- Press this button, Sleep On and Sleep Off can be selected. After powered on, Sleep Off is defaulted. After the unit is turned off, the Sleep function is canceled. After Sleep function set up, the signal of Sleep will display. In this mode, the time of timer can be adjusted. Under Fan and Auto modes, this function is not available.

FAN **FAN button**

- By pressing this key, you may select AUTO, FAN 1, FAN 2, FAN 3 or FAN 4, and may also cycle between them. FAN 4 only in cool or heat mode. After being energized, AUTO is defaulted. Only LOW fan can be set under DRY mode, pressing this key can not adjust the fan speed, but can send message.



SWING **SWING button**

- Press this key to activate or deactivate the swing.

Remote control



+

+ button

- For presetting temperature increasing. Press this button, can set up the temperature, when unit is on. Continuously press and hold this button for more than 2 seconds, the corresponding contents will be changed rapidly, until unpress the button then send the information, °C (°F) is displaying all along. In Auto mode, the temperature can not be set up, but operate this button can send the signal. Centigrade setting range :16-30; Fahrenheit scale setting range 61-86.

-

- button

- 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.

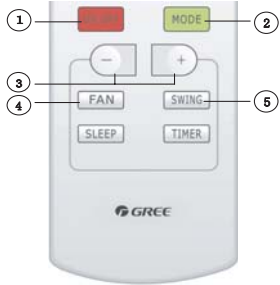
TIMER

TIMER button

- By pressing this key under switch-off state, you may set the time for auto switch-on. The range of setting is 0.5 ~ 24 hours. The characters "T-ON" and "H" will flash for 5 seconds. Within 5 seconds, you may make one press of this key to complete the setting and send the message. If the setting is valid, the set time will be displayed for 2 seconds before display of the temperature message. During flash, you may press "+" key to increase the value and press "-" key to decrease the value. The time will increase or decrease by 0.5 hours with each press of this key. If pressing "+" or "-" key continuously, the time value will change rapidly. The remote controller can increase the set time by 0.5 hours every 0.25 seconds. After being energized, the fault is no timer setting, and there is no display of "T-ON" or "H". Press ON/OFF key to switch on the unit and cancel the auto switch-on. When the temperature display becomes constant, you may press this key again to display the remaining set time. The time value, "T-On" and "H" will display constantly for 2 seconds. After 2 seconds, the preset temperature will be displayed. Within these 2 seconds, you may press this key again to cancel the auto switch-on and send the message.
- By pressing this key under switch-on state, you may set the time for auto switch-off. The method of setting as the same as for auto switch-on.

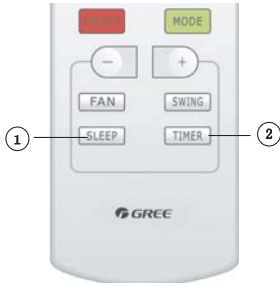
2. Guide for operation- General operation

1. After powered on, press ON/OFF button, the unit will start to run.(Note: When it is powered off, the guide louver of main unit will close automatically.)
2. Press MODE button, select desired running mode, or press COOL or HEAT mode to enter into the corresponding operation directly.
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 1, FAN 2, FAN 3 or FAN 4.
5. Pressing SWING button, to select the swing.




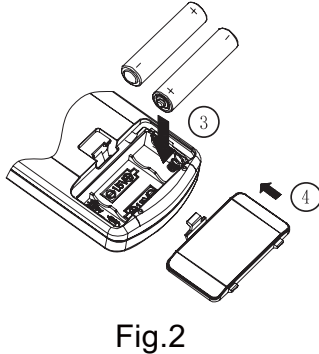
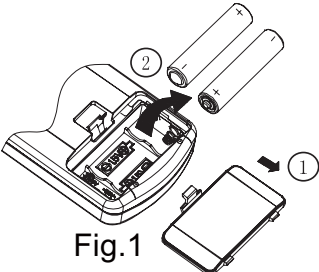
3. Guide for operation- Optional operation

1. Press SLEEP button, to set sleep.
2. Press TIMER button, can set the scheduled timer on or timer off.



4. Changing batteries and notices

1. Slightly to press the place  to take out the back cover of wireless remote control.(As shown in figure)
2. Take out the old batteries. (As show in figure)
3. Insert two new AAA1.5V dry batteries, and pay attention to the polarity. (As show in figure)
4. Attach the back cover of wireless remote control. (As show in figure)

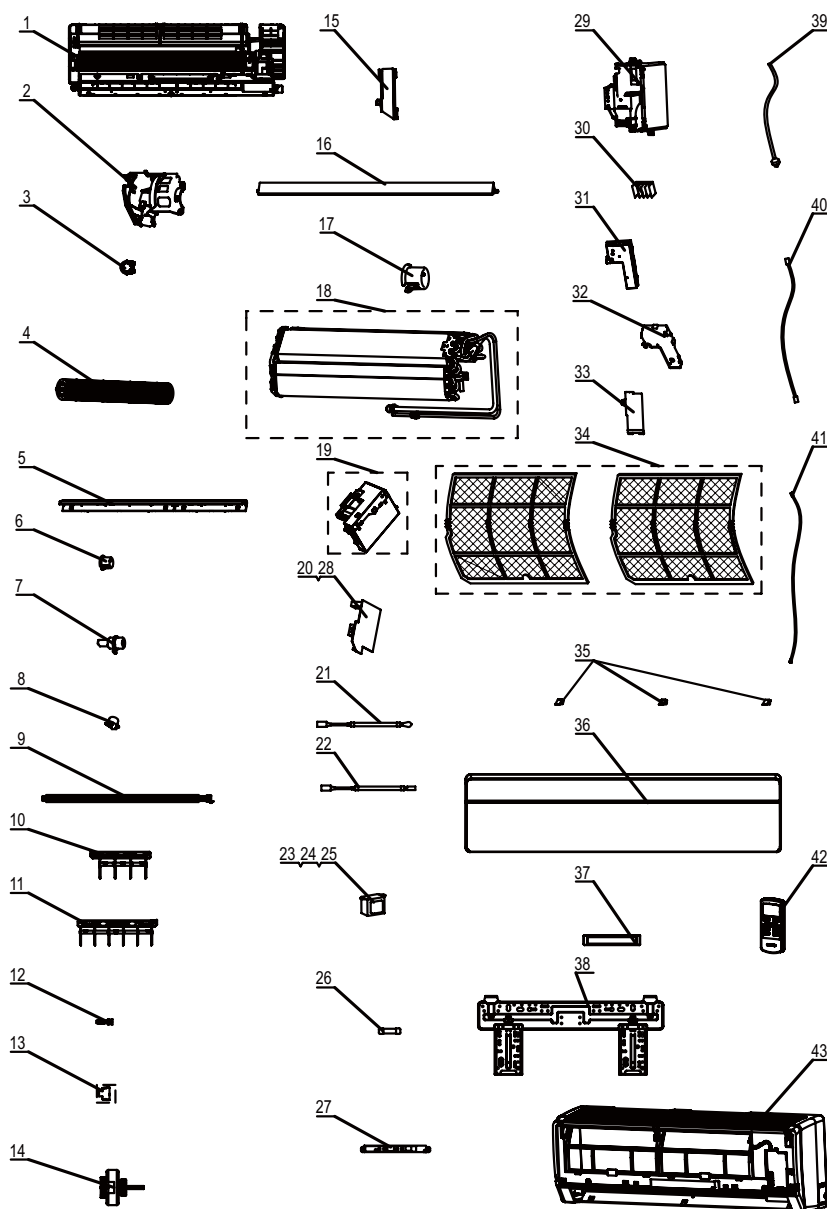


★ NOTE:

- When changing the batteries, do not use the old or different batteries, otherwise, it can cause the malfunction of the wireless remote control.
- If the wireless remote control will not be used for a long time, please take them out, and don't let the leakage liquid damage the wireless remote control.
- The operation should be in its receiving range.
- It should be placed at where is 1m away from the TV set or stereo sound sets.
- If the wireless remote control can not operate normally, please take them out, after 30s later and reinsert, if they cannot normally run, please change them.

7 Explosive view and spare parts list

7.1 Exploded View of Components and Parts of Indoor unit 1



43	Front Case
42	Remote Controller
41	Connecting Cable
40	Connecting Cable
39	Power Cord
38	Wall Mounting Frame
37	Decorative Strip
36	Front Panel Assy
35	Screw Cover
34	Filter Sub-Assy
33	Electric Box Cover2
32	Shield cover of Electric Box
31	Electric Box Cover
30	Terminal Board
29	Electric Box
28	Jumper
27	Display Board
26	Fuse
25	Relay
24	Relay
23	Relay
22	Tube Sensor
21	Ambient Temperature Sensor
20	Main Board
19	Electric Box Assy
18	Evaporator Assy
17	Axile Bush
16	Guide Louver
15	Pipe Clamp
14	Fan Motor
13	O-Gasket sub-assy of Bearing
12	Rubber Plug (Water Tray)
11	Air Louver 2
10	Air Louver 1
9	Drainage hose
8	Stepping Motor
7	crank
6	Axile Bush
5	Helicoid tongue
4	Cross Flow Fan
3	Ring of Bearing
2	Motor Press Plate
1	Rear Case Assy

Description	Part Code		Qty
	GWC05NA-K1NNB1A/I	GWH05NA-K1NNB1A/I	
Rear Case assy	22202135	22202135	1
Motor Press Plate	26112201	26112201	1
Ring of Bearing	26152022	26152022	1
Cross Flow Fan	10352034	10352034	1
Helicoid tongue	26112202	26112202	1
Axile Bush	10542704	10542704	1
Crank	10582070	10582070	1
Step Motor	1521210801	1521210801	1
Drainage hose	0523001407	0523001407	1
Air Louver 1	10512113	10512113	1
Air Louver 2	10512114	10512114	1
Rubber Plug (Water Tray)	76712012	76712012	1
O-Gasket sub-assy of Bearing	76512051	76512051	1
O-Gasket of Cross Fan Bearing	76512203	76512203	1
Fan Bearing	76512210	76512210	1
Fan Motor	15012115	15012115	1
Pipe Clamp	26112199	26112199	1
Guide Louver	10512162	10512162	1
Axile Bush	10542008	10542008	1
Evaporator Assy	01002750	01002750	1
Electric Box Assy	2020223319	2020223318	1
Main Board	30135352	30135353	1
Ambient Temperature Sensor	390000453	390000453	1
Tube Sensor	390000591	390000591	1
Relay	44020331	44020331	1
Relay		44020345	2
Relay	44020386	44020386	1
Fuse	46010055	46010055	1
Display Board	30565062	30565062	1
Jumper	4202300112	4202300112	1
Electric Box	20112091	20112091	1
Terminal Board	42010266	42010262	1
Electric Box Cover	20122114	20122114	1
Shield box (electric box)	01592080	01592080	1
Electric Box Cover2	20122075	20122075	1
Front Case	20012396	20012396	1
Filter Sub-Assy	11122095	11122095	2
Screw Cover	24252016	24252016	3
Front Panel Assy	20012432	20012432	1
Front panel B1	20012395S	20012395S	1
Decorative Strip	20192319	20192319	1
Wall Mounting Frame	01252231	01252231	1
Power Cord	4002048710	4002048710	1
Connecting Cable	40020540	40020540	1
Connecting Cable		40020536	1
Remote Controller	30510065	30510065	1

The above data are subject to be changed without notice.

Description	Part Code		Qty
	GWC05NA-K1NNB2AI	GWH05NA-K1NNB2AI	
Rear Case assy	22202135	22202135	1
Motor Press Plate	26112201	26112201	1
Ring of Bearing	26152022	26152022	1
Cross Flow Fan	10352034	10352034	1
Helicoid tongue	26112202	26112202	1
Axile Bush	10542704	10542704	1
Crank	10582070	10582070	1
Step Motor	1521210801	1521210801	1
Drainage hose	0523001407	0523001407	1
Air Louver 1	10512113	10512113	1
Air Louver 2	10512114	10512114	1
Rubber Plug (Water Tray)	76712012	76712012	1
O-Gasket sub-assy of Bearing	76512051	76512051	1
O-Gasket of Cross Fan Bearing	76512203	76512203	1
Fan Bearing	76512210	76512210	1
Fan Motor	15012115	15012115	1
Pipe Clamp	26112199	26112199	1
Guide Louver	10512162	10512162	1
Axile Bush	10542008	10542008	1
Evaporator Assy	01002750	01002750	1
Electric Box Assy	2020223320	2020223321	1
Main Board	30135350	30135351	1
Ambient Temperature Sensor	390000453	390000453	1
Tube Sensor	390000591	390000591	1
Relay	44020331	44020331	1
Relay		44020345	2
Relay	44020386	44020386	1
Fuse	46010055	46010055	1
Display Board	30565063	30565063	1
Jumper	4202300112	4202300112	1
Electric Box	20112091	20112091	1
Terminal Board	42010266	42010262	1
Electric Box Cover	20122114	20122114	1
Shield box (electric box)	01592080	01592080	1
Electric Box Cover2	20122075	20122075	1
Front Case	20012396	20012396	1
Filter Sub-Assy	11122095	11122095	2
Screw Cover	24252016	24252016	3
Front Panel Assy	20012432	20012432	1
Front panel B1	20012395S	20012395S	1
Decorative Strip	20192319	20192319	1
Wall Mounting Frame	01252231	01252231	1
Power Cord	4002048710	4002048710	1
Connecting Cable	40020540	40020540	1
Connecting Cable		40020536	1
Remote Controller	30510065	30510065	1

The above data are subject to be changed without notice.

Description	Part Code		Qty
	GWC07NA-K1NNB1AI	GWH07NA-K1NNB1AI	
Rear Case assy	22202135	22202135	1
Motor Press Plate	26112201	26112201	1
Ring of Bearing	26152022	26152022	1
Cross Flow Fan	10352034	10352034	1
Helicoid tongue	26112202	26112202	1
Axile Bush	10542704	10542704	1
Crank	10582070	10582070	1
Step Motor	1521210801	1521210801	1
Drainage hose	0523001407	0523001407	1
Air Louver 1	10512113	10512113	1
Air Louver 2	10512114	10512114	1
Rubber Plug (Water Tray)	76712012	76712012	1
O-Gasket sub-assy of Bearing	76512051	76512051	1
O-Gasket of Cross Fan Bearing	76512203	76512203	1
Fan Bearing	76512210	76512210	1
Fan Motor	15012115	15012115	1
Pipe Clamp	26112199	26112199	1
Guide Louver	10512162	10512162	1
Axile Bush	10542008	10542008	1
Evaporator Assy	01002751	01002577	1
Electric Box Assy	2020223311	2020223310	1
Main Board	30135352	30135353	1
Ambient Temperature Sensor	390000453	390000453	1
Tube Sensor	390000591	390000591	1
Relay	44020331	44020331	1
Relay		44020345	2
Relay	44020386	44020386	1
Fuse	46010055	46010055	1
Display Board	30565062	30565062	1
Jumper	4202300116	4202300116	1
Electric Box	20112091	20112091	1
Terminal Board	42010266	42010262	1
Electric Box Cover	20122114	20122114	1
Shield box (electric box)	01592080	01592080	1
Electric Box Cover2	20122075	20122075	1
Front Case	20012396	20012396	1
Filter Sub-Assy	11122095	11122095	2
Screw Cover	24252016	24252016	3
Front Panel Assy	20012432	20012432	1
Front panel B1	20012395S	20012395S	1
Decorative Strip	20192319	20192319	1
Wall Mounting Frame	01252231	01252231	1
Power Cord	4002048710	4002048710	1
Connecting Cable	40020540	40020540	1
Connecting Cable		40020536	1
Remote Controller	30510065	30510065	1

The above data are subject to be changed without notice.

Description	Part Code		Qty
	GWC07NA-K1NNB2AI	GWH07NA-K1NNB2AI	
Rear Case assy	22202135	22202135	1
Motor Press Plate	26112201	26112201	1
Ring of Bearing	26152022	26152022	1
Cross Flow Fan	10352034	10352034	1
Helicoid tongue	26112202	26112202	1
Axile Bush	10542704	10542704	1
Crank	10582070	10582070	1
Step Motor	1521210801	1521210801	1
Drainage hose	0523001407	0523001407	1
Air Louver 1	10512113	10512113	1
Air Louver 2	10512114	10512114	1
Rubber Plug (Water Tray)	76712012	76712012	1
O-Gasket sub-assy of Bearing	76512051	76512051	1
O-Gasket of Cross Fan Bearing	76512203	76512203	1
Fan Bearing	76512210	76512210	1
Fan Motor	15012115	15012115	1
Pipe Clamp	26112199	26112199	1
Guide Louver	10512162	10512162	1
Axile Bush	10542008	10542008	1
Evaporator Assy	01002751	01002577	1
Electric Box Assy	2020223313	2020223312	1
Main Board	30135350	30135351	1
Ambient Temperature Sensor	390000453	390000453	1
Tube Sensor	390000591	390000591	1
Relay	44020331	44020331	1
Relay		44020345	2
Relay	44020386	44020386	1
Fuse	46010055	46010055	1
Display Board	30565063	30565063	1
Jumper	4202300116	4202300116	1
Electric Box	20112091	20112091	1
Terminal Board	42010266	42010262	1
Electric Box Cover	20122114	20122114	1
Shield box (electric box)	01592080	01592080	1
Electric Box Cover2	20122075	20122075	1
Front Case	20012396	20012396	1
Filter Sub-Assy	11122095	11122095	2
Screw Cover	24252016	24252016	3
Front Panel Assy	20012432	20012432	1
Front panel B1	20012395S	20012395S	1
Decorative Strip	20192319	20192319	1
Wall Mounting Frame	01252231	01252231	1
Power Cord	4002048710	4002048710	1
Connecting Cable	40020540	40020540	1
Connecting Cable		40020536	1
Remote Controller	30510065	30510065	1

The above data are subject to be changed without notice.

Description	Part Code		Qty
	GWC09NA-K1NNB1AI	GWH09NA-K1NNB1AI	
Rear Case assy	22202135	22202135	1
Motor Press Plate	26112201	26112201	1
Ring of Bearing	26152022	26152022	1
Cross Flow Fan	10352034	10352034	1
Helicoid tongue	26112202	26112202	1
Axile Bush	10542704	10542704	1
Crank	10582070	10582070	1
Step Motor	1521210801	1521210801	1
Drainage hose	0523001407	0523001407	1
Air Louver 1	10512113	10512113	1
Air Louver 2	10512114	10512114	1
Rubber Plug (Water Tray)	76712012	76712012	1
O-Gasket sub-assy of Bearing	76512051	76512051	1
O-Gasket of Cross Fan Bearing	76512203	76512203	1
Fan Bearing	76512210	76512210	1
Fan Motor	15012115	15012115	1
Pipe Clamp	26112199	26112199	1
Guide Louver	10512162	10512162	1
Axile Bush	10542008	10542008	1
Evaporator Assy	01002752	01002577	1
Electric Box Assy	2020223308	20202233	1
Main Board	30135352	30135353	1
Ambient Temperature Sensor	390000453	390000453	1
Tube Sensor	390000591	390000591	1
Relay	44020331	44020331	1
Relay		44020345	2
Relay	44020386	44020386	1
Fuse	46010055	46010055	1
Display Board	30565062	30565062	1
Jumper	4202300114	4202300114	1
Electric Box	20112091	20112091	1
Terminal Board	42010266	42010262	1
Electric Box Cover	20122114	20122114	1
Shield box (electric box)	01592080	01592080	1
Electric Box Cover2	20122075	20122075	1
Front Case	20012396	20012396	1
Filter Sub-Assy	11122095	11122095	2
Screw Cover	24252016	24252016	3
Front Panel Assy	20012432	20012432	1
Front panel B1	20012395S	20012395S	1
Decorative Strip	20192319	20192319	1
Wall Mounting Frame	01252231	01252231	1
Power Cord	4002048710	4002048710	1
Connecting Cable	40020540	40020540	1
Connecting Cable		40020536	1
Remote Controller	30510065	30510065	1

The above data are subject to be changed without notice.

Description	Part Code		Qty
	GWC09NA-K1NNB2AI	GWH09NA-K1NNB2AI	
Rear Case assy	22202135	22202135	1
Motor Press Plate	26112201	26112201	1
Ring of Bearing	26152022	26152022	1
Cross Flow Fan	10352034	10352034	1
Helicoid tongue	26112202	26112202	1
Axile Bush	10542704	10542704	1
Crank	10582070	10582070	1
Step Motor	1521210801	1521210801	1
Drainage hose	0523001407	0523001407	1
Air Louver 1	10512113	10512113	1
Air Louver 2	10512114	10512114	1
Rubber Plug (Water Tray)	76712012	76712012	1
O-Gasket sub-assy of Bearing	76512051	76512051	1
O-Gasket of Cross Fan Bearing	76512203	76512203	1
Fan Bearing	76512210	76512210	1
Fan Motor	15012115	15012115	1
Pipe Clamp	26112199	26112199	1
Guide Louver	10512162	10512162	1
Axile Bush	10542008	10542008	1
Evaporator Assy	01002752	01002577	1
Electric Box Assy	2020223309	2020223302	1
Main Board	30135350	30135351	1
Ambient Temperature Sensor	390000453	390000453	1
Tube Sensor	390000591	390000591	1
Relay	44020331	44020331	1
Relay		44020345	2
Relay	44020386	44020386	1
Fuse	46010055	46010055	1
Display Board	30565063	30565063	1
Jumper	4202300114	4202300114	1
Electric Box	20112091	20112091	1
Terminal Board	42010266	42010262	1
Electric Box Cover	20122114	20122114	1
Shield box (electric box)	01592080	01592080	1
Electric Box Cover2	20122075	20122075	1
Front Case	20012396	20012396	1
Filter Sub-Assy	11122095	11122095	2
Screw Cover	24252016	24252016	3
Front Panel Assy	20012432	20012432	1
Front panel B1	20012395S	20012395S	1
Decorative Strip	20192319	20192319	1
Wall Mounting Frame	01252231	01252231	1
Power Cord	4002048710	4002048710	1
Connecting Cable	40020540	40020540	1
Connecting Cable		40020536	1
Remote Controller	30510065	30510065	1

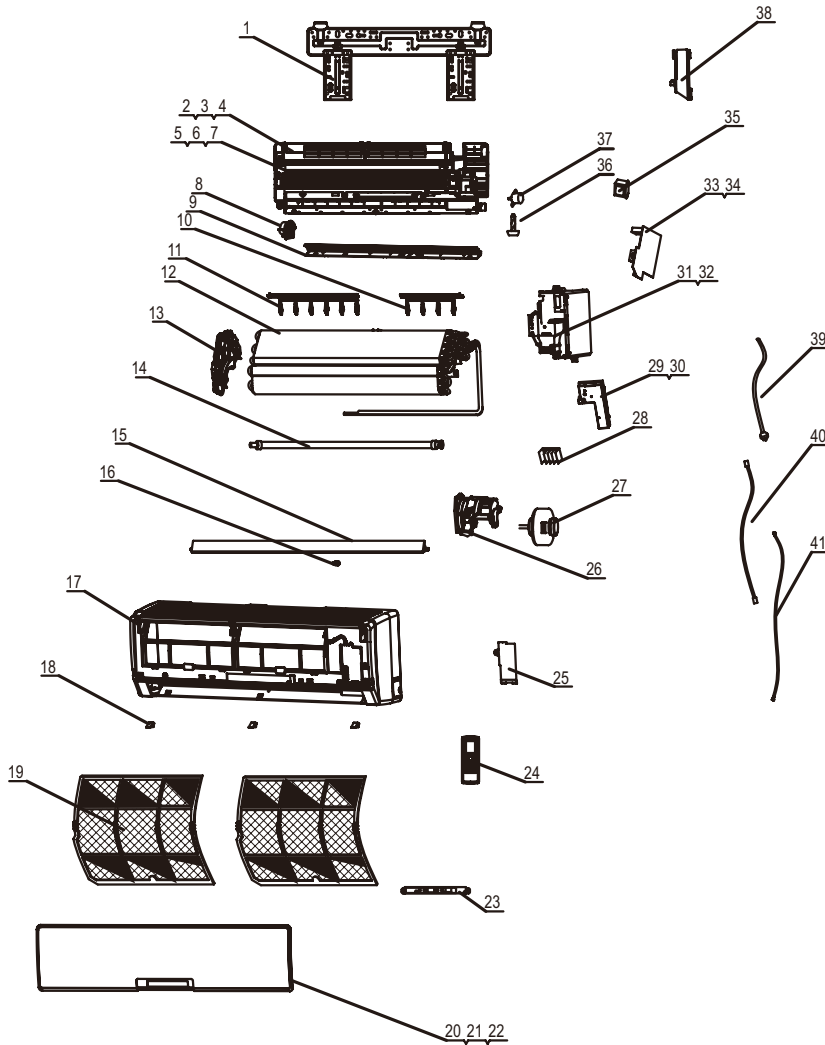
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Bee Series

Description	Part Code		Qty
	GWC09NA-K1NNB3A/I	GWH09NA-K1NNB3A/I	
Rear Case assy	22202135	22202135	1
Motor Press Plate	26112201	26112201	1
Ring of Bearing	26152022	26152022	1
Cross Flow Fan	10352034	10352034	1
Helicoid tongue	26112202	26112202	1
Axile Bush	10542704	10542704	1
Crank	10582070	10582070	1
Step Motor	1521210801	1521210801	1
Drainage hose	0523001407	0523001407	1
Air Louver 1	10512113	10512113	1
Air Louver 2	10512114	10512114	1
Rubber Plug (Water Tray)	76712012	76712012	1
O-Gasket sub-assy of Bearing	76512051	76512051	1
O-Gasket of Cross Fan Bearing	76512203	76512203	1
Fan Bearing	76512210	76512210	1
Fan Motor	15012115	15012115	1
Pipe Clamp	26112199	26112199	1
Guide Louver	10512162	10512162	1
Axile Bush	10542008	10542008	1
Evaporator Assy	01002752	01002577	1
Electric Box Assy	20202272	20202273	1
Main Board	30135352	30135353	1
Ambient Temperature Sensor	390000453	390000453	1
Tube Sensor	390000591	390000591	1
Relay	44020331	44020331	1
Relay		44020345	2
Relay	44020386	44020386	1
Fuse	46010055	46010055	1
Display Board	30565074	30565074	1
Jumper	4202300114	4202300114	1
Electric Box	20112091	20112091	1
Terminal Board	42010266	42010262	1
Electric Box Cover	20122114	20122114	1
Shield box (electric box)	01592080	01592080	1
Electric Box Cover2	20122075	20122075	1
Front Case	20012396	20012396	1
Filter Sub-Assy	11122095	11122095	2
Screw Cover	24252016	24252016	3
Front Panel Assy	20012462	20012462	1
Front Panel	20012452S	20012452S	1
Decorate Piece	68012060	68012060	1
Display Cover	20122122	20122122	1
Wall Mounting Frame	01252231	01252231	1
Power Cord	4002048710	4002048710	1
Connecting Cable	40020540	40020540	1
Connecting Cable		40020536	1
Remote Controller	30510065	30510065	1

The above data are subject to be changed without notice.

7.2 Exploded View of Components and Parts of Indoor unit 2



41	Connecting Cable
40	Connecting Cable
39	Power Cable
38	Pipe Clamp
37	Stepping Motor
36	Rubber Plug (Water Tray)
35	Transformer
34	Jumper
33	Main Board
32	Electric Box
31	Electric Box Assy
30	Shield cover of Electric Box
29	Electric Box Cover 1
28	Terminal Board
27	Fan Motor
26	Motor Press Plate
25	Electric Box Cover2
24	Remote Controller
23	Receiver Board
22	Receiver Window
21	Front panel
20	Front panel Assy
19	Filter Sub-Assy
18	Screw Cover
17	Front Case
16	Axile Bush
15	Guide Louver
14	Drainage hose
13	Evaporator Support
12	Evaporator Assy
11	Air Louver 1
10	Air Louver 2
9	Helicoid tongue
8	Ring of Bearing
7	O-Gasket of Cross Fan Bearing
6	O-Gasket sub-assy of Bearing
5	Cross Flow Fan
4	Crank
3	Axile Bush
2	Rear Case Assy
1	Wall-Mounting Frame

Description	Part Code		Qty
	GWC12NB-K1NNB1A/I	GWH12NB-K1NNB1A/I	
Rear Case assy	2220210101	2220210101	1
Motor Press Plate	26112160	26112160	1
Ring of Bearing	26152022	26152022	1
Cross Flow Fan	10352018	10352018	1
Helicoid tongue	26112162	26112162	1
Axile Bush	10542704	10542704	1
Crank	10582070	10582070	1
Step Motor	1521210801	1521210801	1
Drainage hose	0523001406	0523001406	1
Air Louver 1	10512113	10512113	1
Air Louver 2	10512114	10512114	1
Rubber Plug (Water Tray)	76712012	76712012	1
O-Gasket sub-assy of Bearing	76512051	76512051	1
O-Gasket of Cross Fan Bearing	76512203	76512203	1
Fan Bearing	76512210	76512210	1
Fan Motor	15012115	15012115	1
Pipe Clamp	26112164	26112164	1
Guide Louver	10512111	10512111	1
Axile Bush	10542008	10542008	1
Evaporator Assy	0100255205	0100255205	1
Evaporator Support	24212090	24212090	1
Electric Box Assy	20202205	20202200	1
Transformer	43110236	43110236	1
Main Board	30135282	30135283	1
Ambient Temperature Sensor	390000453	390000453	1
Tube Sensor	390000591	390000591	1
Relay	44020331	44020331	1
Relay		44020345	2
Relay	44020386	44020386	1
Fuse	46010014	46010014	1
Display Board	30565062	30565062	1
Jumper	4202300128	4202300128	1
Electric Box	20112082	20112064	1
Terminal Board	42010266	42010262	1
Electric Box Cover1	20122103	20102848	1
Shield cover of Electric Box	01412036	01412036	1
Electric Box Cover2	20122075	20122075	1
Front Case	20012179	20012179	1
Filter Sub-Assy	11122081	11122081	2
Screw Cover	24252016	24252016	3
Front Panel Assy	20012420	20012420	1
Front panel B1	20012344S	20012344S	1
Receiver Window	22432508	22432508	1
Power Cord	4002048710	4002048710	1
Connecting Cable	40020540	40020540	1
Connecting Cable		40020536	1
Remote Controller	30510065	30510065	1
Wall Mounting Frame	01252015	01252015	1

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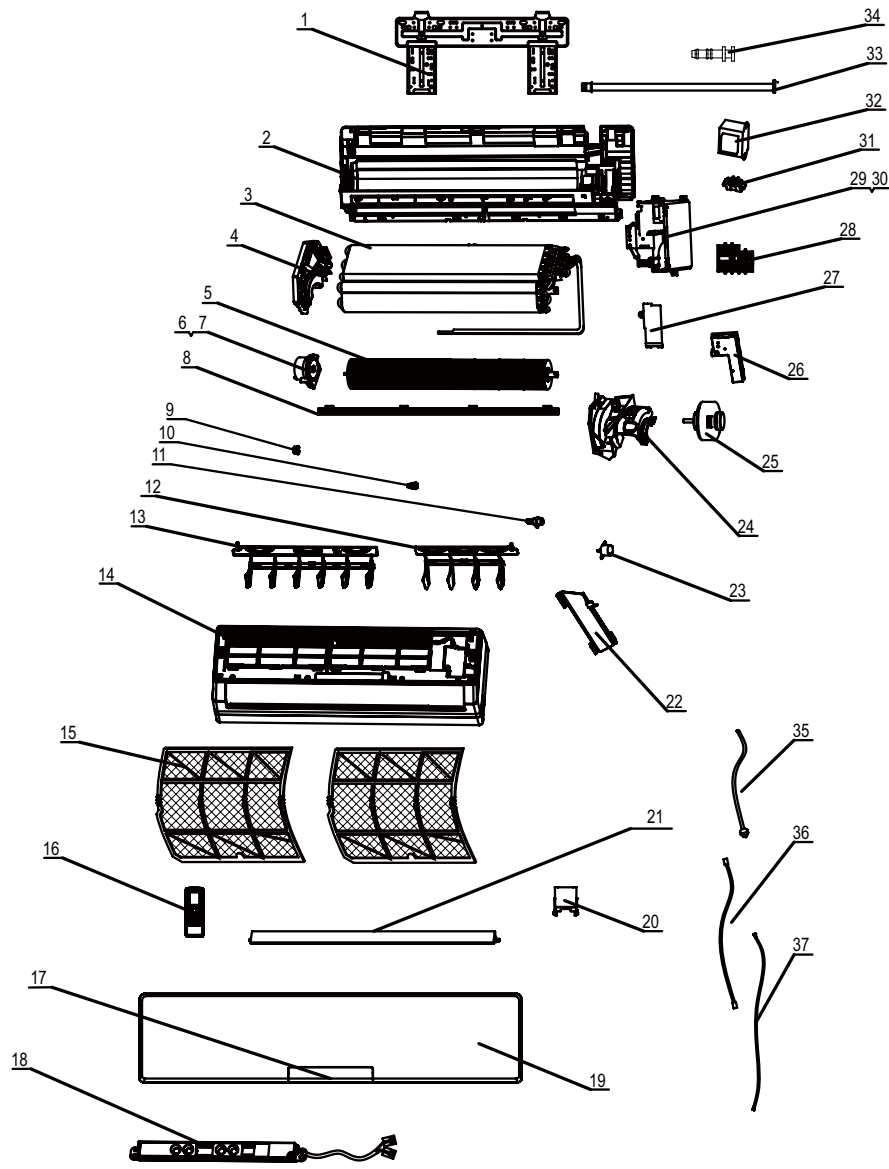
Description	Part Code		Qty
	GWC12NB-K1NNB2A/I	GWH12NB-K1NNB2A/I	
Rear Case assy	2220210101	2220210101	1
Motor Press Plate	26112160	26112160	1
Ring of Bearing	26152022	26152022	1
Cross Flow Fan	10352018	10352018	1
Helicoid tongue	26112162	26112162	1
Axile Bush	10542704	10542704	1
Crank	10582070	10582070	1
Step Motor	1521210801	1521210801	1
Drainage hose	0523001406	0523001406	1
Air Louver 1	10512113	10512113	1
Air Louver 2	10512114	10512114	1
Rubber Plug (Water Tray)	76712012	76712012	1
O-Gasket sub-assy of Bearing	76512051	76512051	1
O-Gasket of Cross Fan Bearing	76512203	76512203	1
Fan Bearing	76512210	76512210	1
Fan Motor	15012115	15012115	1
Pipe Clamp	26112164	26112164	1
Guide Louver	10512111	10512111	1
Axile Bush	10542008	10542008	1
Evaporator Assy	0100255205	0100255205	1
Evaporator Support	24212090	24212090	1
Electric Box Assy	20202207	20202208	1
Transformer	43110236	43110236	1
Main Board	30135278	30135281	1
Ambient Temperature Sensor	390000453	390000453	1
Tube Sensor	390000591	390000591	1
Relay	44020331	44020331	1
Relay		44020345	2
Relay	44020386	44020386	1
Fuse	46010014	46010014	1
Display Board	30565063	30565063	1
Jumper	4202300128	4202300128	1
Electric Box	20112082	20112064	1
Terminal Board	42010266	42010262	1
Electric Box Cover1	20122103	20102848	1
Shield cover of Electric Box	01412036	01412036	1
Electric Box Cover2	20122075	20122075	1
Front Case	20012179	20012179	1
Filter Sub-Assy	11122081	11122081	2
Screw Cover	24252016	24252016	3
Front Panel Assy	20012420	20012420	1
Front panel B1	20012344S	20012344S	1
Receiver Window	22432508	22432508	1
Power Cord	4002048710	4002048710	1
Connecting Cable	40020540	40020540	1
Connecting Cable		40020536	1
Remote Controller	30510065	30510065	1
Wall Mounting Frame	01252015	01252015	1

The above data are subject to be changed without notice.

Description	Part Code		Qty
	GWC12NB-K1NNB3A/I	GWH12NB-K1NNB3A/I	
Rear Case assy	2220210101	2220210101	1
Motor Press Plate	26112160	26112160	1
Ring of Bearing	26152022	26152022	1
Cross Flow Fan	10352018	10352018	1
Helicoid tongue	26112162	26112162	1
Axile Bush	10542704	10542704	1
Crank	10582070	10582070	1
Step Motor	1521210801	1521210801	1
Drainage hose	0523001406	0523001406	1
Air Louver 1	10512113	10512113	1
Air Louver 2	10512114	10512114	1
Rubber Plug (Water Tray)	76712012	76712012	1
O-Gasket sub-assy of Bearing	76512051	76512051	1
O-Gasket of Cross Fan Bearing	76512203	76512203	1
Fan Bearing	76512210	76512210	1
Fan Motor	15012115	15012115	1
Pipe Clamp	26112164	26112164	1
Guide Louver	10512111	10512111	1
Axile Bush	10542008	10542008	1
Evaporator Assy	0100255205	0100255205	1
Evaporator Support	24212090	24212090	1
Electric Box Assy	20202268	20202267	1
Transformer	43110236	43110236	1
Main Board	30135282	30135283	1
Ambient Temperature Sensor	390000453	390000453	1
Tube Sensor	390000591	390000591	1
Relay	44020331	44020331	1
Relay		44020345	2
Relay	44020386	44020386	1
Fuse	46010014	46010014	1
Display Board	30565074	30565074	1
Jumper	4202300128	4202300128	1
Electric Box	20112082	20112082	1
Terminal Board	42010266	42010262	1
Electric Box Cover1	20122103	20122103	1
Shield cover of Electric Box	01412036	01412036	1
Electric Box Cover2	20122075	20122075	1
Front Case	20012179	20012179	1
Filter Sub-Assy	11122081	11122081	2
Screw Cover	24252016	24252016	3
Front Panel Assy	20012463	20012463	1
Front panel B1	20012450S	20012450S	1
Decorate Piece	68012061	68012061	1
Display Cover	20122122	20122122	1
Power Cord	4002048710	4002048710	1
Connecting Cable	40020540	40020540	1
Connecting Cable		40020536	1
Remote Controller	30510065	30510065	1
Wall Mounting Frame	01252015	01252015	1

The above data are subject to be changed without notice.

7.3 Exploded View of Components and Parts of Indoor unit 3



37	Connecting Cable
36	Connecting Cable
35	Power Cord
34	Rubber Plug (Water Tray)
33	Drainage hose
32	Transformer
31	Jumper
30	Main Board
29	Electric Box Assy
28	Terminal Board
27	Electric Box Cover2
26	Electric Box Cover1
25	Fan Motor
24	Motor Press Plate
23	Stepping Motor
22	Pipe Clamp
21	Guide Louver
20	Screw Cover
19	Front panel
18	Display Board
17	Receiver Window
16	Remote Controller
15	Filter Sub-Assy
14	Front Case Sub-Assy
13	Air Louver 2
12	Air Louver 1
11	Axile Bush
10	Crank
9	Left Axile Bush
8	Helicoid tongue
7	O-Gasket of Cross Fan Bearing
6	Ring of Bearing
5	Cross Flow Fan
4	Evaporator Support
3	Evaporator Assy
2	Rear Case assy
1	Wall Mounting Frame

Description	Part Code		Qty
	GWC18NC-K1NNB1A/I	GWH18NC-K1NNB1A/I	
Rear Case assy	2220210301	2220210301	1
Helicoid tongue	26112163	26112163	1
Ring of Bearing	26152022	26152022	1
Step Motor	1521210801	1521210801	1
Drainage hose	0523001401	0523001401	1
Motor Press Plate	26112161	26112161	1
Air Louver 1	10512156	10512156	1
Air Louver 2	10512155	10512155	1
Left Axile Bush	10512037	10512037	1
Crank	10582070	10582070	1
Rubber Plug (Water Tray)	76712012	76712012	1
O-Gasket sub-assy of Bearing	76512051	76512051	1
O-Gasket of Cross Fan Bearing	76512203	76512203	1
Fan Bearing	76512210	76512210	1
Cross Flow Fan	10352017	10352017	1
Fan Motor	150120874	150120874	1
Pipe Clamp	26112164	26112164	1
Guide Louver	10512157	10512157	1
Axile Bush	10542008	10542008	1
Filter Sub-Assy	1112220401	1112220401	2
Front Panel Assy	20012419	20012419	1
Front panel B1	20012343S	20012343S	1
Receiver Window	22432507	22432507	1
Electric Box Assy	2020207506	2020210702	1
Electric Box	20112064	20112064	1
Transformer	43110236	43110236	1
Main Board	30135282	30135283	1
Ambient Temperature Sensor	390000453	390000453	1
Tube Sensor	390000591	390000591	1
Relay	44020331	44020331	1
Relay		44020345	2
Relay	44020386	44020386	1
Fuse	46010014	46010014	1
Display Board	4202300130	30565062	1
Jumper	30565062	4202300130	1
Terminal Board	42010266	42010262	1
Electric Box Cover1	20102848	20102848	1
Shield cover of Electric Box	0141200901	0141200901	1
Electric Box Cover2	20122075	20122075	1
Evaporator Assy	0100256501	0100256501	1
Evaporator Support	24212091	24212091	1
Power Cord	4002048712	4002048712	1
Screw Cover	24252016	24252016	1
Front Case Sub-Assy	2001213901	2001213901	1
Front Case	2001212301	2001212301	1
Connecting Cable	400205401	400205401	1
Connecting Cable		40020536	1
Remote Controller	30510065	30510065	1
Wall Mounting Frame	01252013	01252013	1

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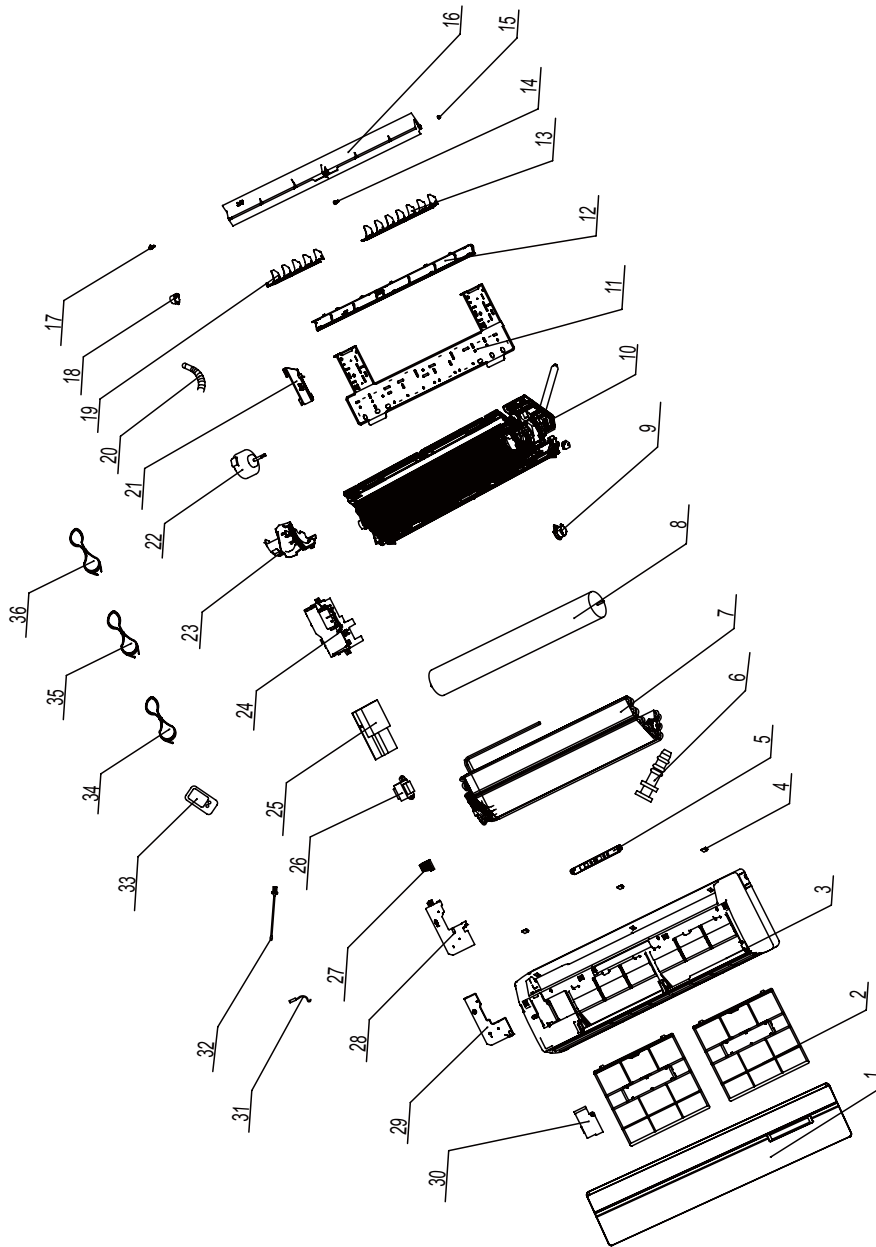
Description	Part Code		Qty
	GWC18NC-K1NNB2A/I	GWH18NC-K1NNB2A/I	
Rear Case assy	2220210301	2220210301	1
Helicoid tongue	26112163	26112163	1
Ring of Bearing	26152022	26152022	1
Step Motor	1521210801	1521210801	1
Drainage hose	0523001401	0523001401	1
Motor Press Plate	26112161	26112161	1
Air Louver 1	10512156	10512156	1
Air Louver 2	10512155	10512155	1
Left Axle Bush	10512037	10512037	1
Crank	10582070	10582070	1
Rubber Plug (Water Tray)	76712012	76712012	1
O-Gasket sub-assy of Bearing	76512051	76512051	1
O-Gasket of Cross Fan Bearing	76512203	76512203	1
Fan Bearing	76512210	76512210	1
Cross Flow Fan	10352017	10352017	1
Fan Motor	150120874	150120874	1
Pipe Clamp	26112164	26112164	1
Guide Louver	10512157	10512157	1
Axle Bush	10542008	10542008	1
Filter Sub-Assy	1112220401	1112220401	2
Front Panel Assy	20012419	20012419	1
Front panel B1	20012343S	20012343S	1
Receiver Window	22432507	22432507	1
Electric Box Assy	2020207507	2020210703	1
Electric Box	20112064	20112064	1
Transformer	43110236	43110236	1
Main Board	30135278	30135281	1
Ambient Temperature Sensor	390000453	390000453	1
Tube Sensor	390000591	390000591	1
Relay	44020331	44020331	1
Relay		44020345	2
Relay	44020386	44020386	1
Fuse	46010014	46010014	1
Display Board	4202300130	30565063	1
Jumper	30565063	4202300130	1
Terminal Board	42010266	42010262	1
Electric Box Cover1	20102848	20102848	1
Shield cover of Electric Box	0141200901	0141200901	1
Electric Box Cover2	20122075	20122075	1
Evaporator Assy	0100256501	0100256501	1
Evaporator Support	24212091	24212091	1
Power Cord	4002048712	4002048712	1
Screw Cover	24252016	24252016	1
Front Case Sub-Assy	2001213901	2001213901	1
Front Case	2001212301	2001212301	1
Connecting Cable	400205401	400205401	1
Connecting Cable		40020536	1
Remote Controller	30510065	30510065	1
Wall Mounting Frame	01252013	01252013	1

The above data are subject to be changed without notice.

Description	Part Code		Qty
	GWC18NC-K1NNB3A/I	GWH18NC-K1NNB3A/I	
Rear Case assy	2220210301	2220210301	1
Helicoid tongue	26112163	26112163	1
Ring of Bearing	26152022	26152022	1
Step Motor	1521210801	1521210801	1
Drainage hose	0523001401	0523001401	1
Motor Press Plate	26112161	26112161	1
Air Louver 1	10512156	10512156	1
Air Louver 2	10512155	10512155	1
Left Axile Bush	10512037	10512037	1
Crank	10582070	10582070	1
Rubber Plug (Water Tray)	76712012	76712012	1
O-Gasket sub-assy of Bearing	76512051	76512051	1
O-Gasket of Cross Fan Bearing	76512203	76512203	1
Fan Bearing	76512210	76512210	1
Cross Flow Fan	10352017	10352017	1
Fan Motor	150120874	150120874	1
Pipe Clamp	26112164	26112164	1
Guide Louver	10512157	10512157	1
Axile Bush	10542008	10542008	1
Filter Sub-Assy	1112220401	1112220401	2
Front Panel Assy	20012464	20012464	1
Front panel B2	20012449S	20012449S	1
Decorate Piece	68012062	68012062	1
Display Cover	20122122	20122122	1
Electric Box Assy	20202260	20202261	1
Electric Box	20112064	20112064	1
Transformer	43110236	43110236	1
Main Board	30135282	30135283	1
Ambient Temperature Sensor	390000453	390000453	1
Tube Sensor	390000591	390000591	1
Relay	44020331	44020331	1
Relay		44020345	2
Relay	44020386	44020386	1
Fuse	46010014	46010014	1
Display Board	4202300130	30565074	1
Jumper	30565074	4202300130	1
Terminal Board	42010266	42010262	1
Electric Box Cover1	20102848	20102848	1
Shield cover of Electric Box	0141200901	0141200901	1
Electric Box Cover2	20122075	20122075	1
Evaporator Assy	0100256501	0100256501	1
Evaporator Support	24212091	24212091	1
Power Cord	4002048712	4002048712	1
Screw Cover	24252016	24252016	1
Front Case Sub-Assy	2001213901	2001213901	1
Front Case	2001212301	2001212301	1
Connecting Cable	400205401	400205401	1
Connecting Cable		40020536	1
Remote Controller	30510065	30510065	1
Wall Mounting Frame	01252013	01252013	1

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7.4 Exploded View of Components and Parts of Indoor unit 4



36	Power Cord
35	Connecting Cable
34	Connecting Cable
33	Remote Controller
32	Ambient Temperature Sensor
31	Tube Sensor
30	Electric Box Cover2
29	Shield cover of Electric Box
28	Electric Box Cover1
27	Terminal Board
26	Transformer
25	Main Board
24	Electric Box
23	Motor Press Plate
22	Fan Motor
21	Pipe Clamp
20	Drainage hose
19	Air Louver 2
18	Stepping Motor
17	crank
16	Guide Louver
15	Left Axile Bush
14	Axile Bush
13	Air Louver 1
12	Helicoid tongue
11	Wall Mounting Frame
10	Rear Case assy
9	Ring of Bearing
8	Cross Flow Fan
7	Evaporator Assy
6	Rubber Plug (Water Tray)
5	Display Board
4	Screw Cover
3	Front Case
2	Filter Sub-Assy
1	Front Panel Assy

Description	Part Code		Qty
	GWC24ND-K1NNB1A/I	GWH24ND-K1NNB1A/I	
Rear Case assy	12312214	12312214	1
Helicoid tongue	26112177	26112177	1
Ring of Bearing	26152022	26152022	1
Step Motor	15012086	15012086	1
Drainage hose	05230014	05230014	1
Motor Press Plate	26112178	26112178	1
Air Louver 1	10512116	10512116	1
Air Louver 2	10512117	10512117	1
Left Axle Bush	10512037	10512037	1
Crank	10582070	10582070	1
Rubber Plug (Water Tray)	76712012	76712012	1
Baffle Plate	26112228	26112228	1
Cross Flow Fan	10352019	10352019	1
Fan Motor	15012113	15012113	1
Guide Louver	10512115	10512115	1
Pipe Clamp	26112164	26112164	1
Axle Bush	10542008	10542008	1
Filter Sub-Assy	1112208901	1112208901	2
Front Panel Assy	20012341	20012341	1
Front panel B1	20012340S	20012340S	1
Receiver Window	22432167	22432167	1
Evaporator Assy	01002575	01002575	1
Electric Box Assy	20202203	20202201	1
Electric Box	20112078	20112078	1
Transformer	43110237	43110237	1
Terminal Board	42011233	4201026201	1
Main Board	30135294	30135295	1
Ambient Temperature Sensor	390000451	390000451	1
Tube Sensor	390000591	390000591	1
Relay	44020386	44020345	3
Relay	46010014	44020386	1
Fuse	44020345	46010014	1
Display Board	30565062	30565062	1
Jumper	4202300109	4202300109	1
Electric Box Cover1	20122099	20122099	1
Shield cover of Electric Box	01592070	01592070	1
Connecting Cable		4002053603	1
Connecting Cable	400205382	400205382	1
Power Cord	400203253	400203253	1
Wall Mounting Frame	01252218	01252218	1
Front Case Sub-Assy	20012299	20012299	1
Front Case	20012282	20012282	1
Screw Cover	24252016	24252016	3
Electric Box Cover2	20112081	20112081	1
Evaporator Support	24212100	24212100	1
Remote Controller	30510065	30510065	1

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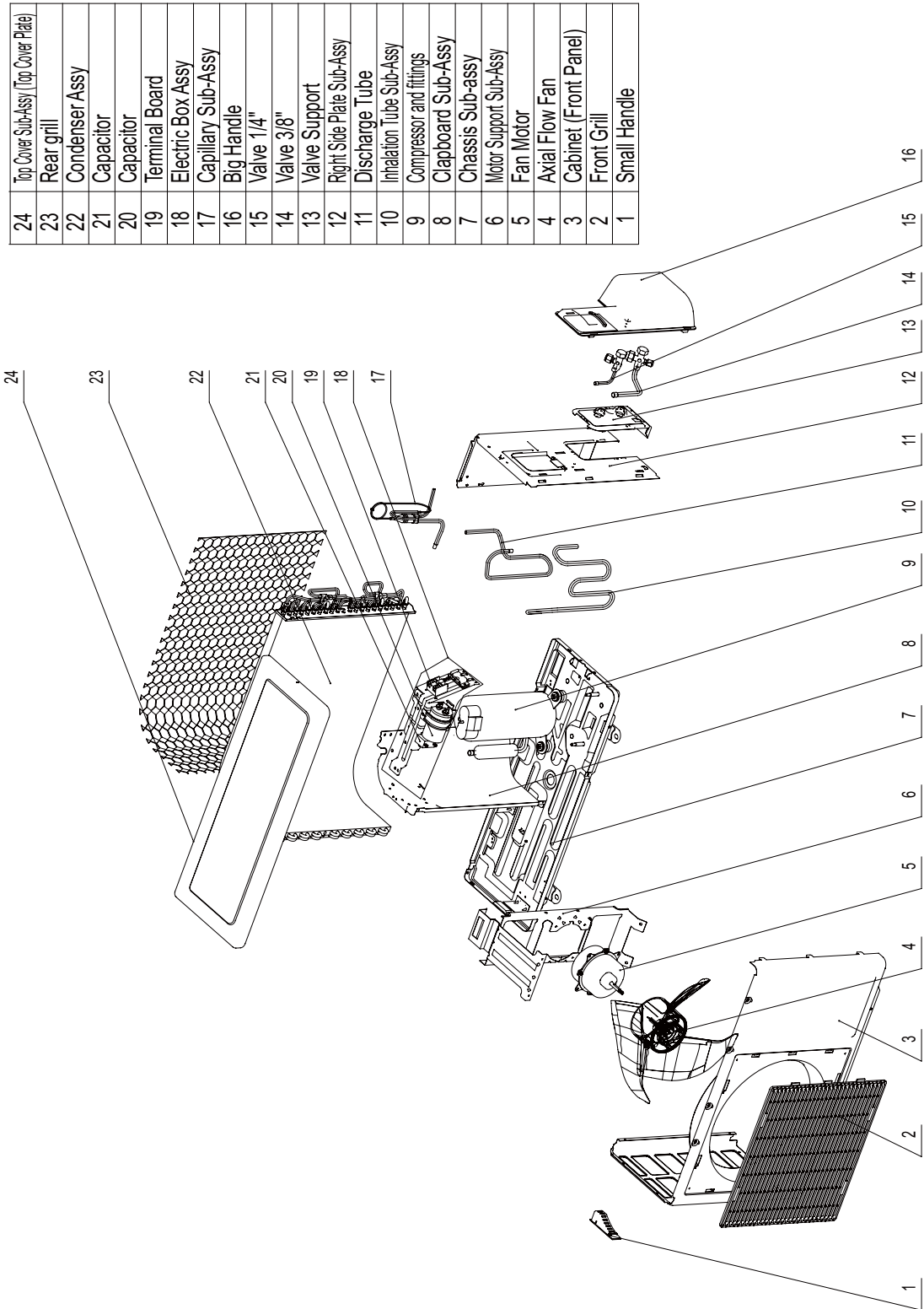
Description	Part Code		Qty
	GWC24ND-K1NNB2AI	GWH24ND-K1NNB2AI	
Rear Case assy	12312214	12312214	1
Helicoid tongue	26112177	26112177	1
Ring of Bearing	26152022	26152022	1
Step Motor	15012086	15012086	1
Drainage hose	05230014	05230014	1
Motor Press Plate	26112178	26112178	1
Air Louver 1	10512116	10512116	1
Air Louver 2	10512117	10512117	1
Left Axle Bush	10512037	10512037	1
Crank	10582070	10582070	1
Rubber Plug (Water Tray)	76712012	76712012	1
Baffle Plate	26112228	26112228	1
Cross Flow Fan	10352019	10352019	1
Fan Motor	15012113	15012113	1
Guide Louver	10512115	10512115	1
Pipe Clamp	26112164	26112164	1
Axle Bush	10542008	10542008	1
Filter Sub-Assy	1112208901	1112208901	2
Front Panel Assy	20012341	20012341	1
Front panel B1	20012340S	20012340S	1
Receiver Window	22432167	22432167	1
Evaporator Assy	01002575	01002575	1
Electric Box Assy	20202204	20202202	1
Electric Box	20112078	20112078	1
Transformer	43110237	43110237	1
Terminal Board	42011233	4201026201	1
Main Board	30135315	30135316	1
Ambient Temperature Sensor	390000451	390000451	1
Tube Sensor	390000591	390000591	1
Relay	44020386	44020345	3
Relay	46010014	44020386	1
Fuse	44020345	46010014	1
Display Board	30565063	30565063	1
Jumper	4202300109	4202300109	1
Electric Box Cover1	20122099	20122099	1
Shield cover of Electric Box	01592070	01592070	1
Connecting Cable		4002053603	1
Connecting Cable	400205382	400205382	1
Power Cord	400203253	400203253	1
Wall Mounting Frame	01252218	01252218	1
Front Case Sub-Assy	20012299	20012299	1
Front Case	20012282	20012282	1
Screw Cover	24252016	24252016	3
Electric Box Cover2	20112081	20112081	1
Evaporator Support	24212100	24212100	1
Remote Controller	30510065	30510065	1

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Description	Part Code		Qty
	GWC24ND-K1NNB3A/I	GWH24ND-K1NNB3A/I	
Rear Case assy	12312214	12312214	1
Helicoid tongue	26112177	26112177	1
Ring of Bearing	26152022	26152022	1
Step Motor	15012086	15012086	1
Drainage hose	05230014	05230014	1
Motor Press Plate	26112178	26112178	1
Air Louver 1	10512116	10512116	1
Air Louver 2	10512117	10512117	1
Left Axle Bush	10512037	10512037	1
Crank	10582070	10582070	1
Rubber Plug (Water Tray)	76712012	76712012	1
Baffle Plate	26112228	26112228	1
Cross Flow Fan	10352019	10352019	1
Fan Motor	15012113	15012113	1
Guide Louver	10512115	10512115	1
Pipe Clamp	26112164	26112164	1
Axle Bush	10542008	10542008	1
Filter Sub-Assy	1112208901	1112208901	2
Front Panel Assy	20012466	20012466	1
Front panel B3	20012456S	20012456S	1
Decorative Board	20192331	20192331	1
Display Cover	20122122	20122122	1
Evaporator Assy	01002575	01002575	1
Electric Box Assy	2020220301	2020220101	1
Electric Box	20112078	20112078	1
Transformer	43110237	43110237	1
Terminal Board	42011233	4201026201	1
Main Board	30135294	30135295	1
Ambient Temperature Sensor	390000451	390000451	1
Tube Sensor	390000591	390000591	1
Relay	44020386	44020345	3
Relay	46010014	44020386	1
Fuse	44020345	46010014	1
Display Board	30565074	30565074	1
Jumper	4202300109	4202300109	1
Electric Box Cover1	20122099	20122099	1
Shield cover of Electric Box	01592070	01592070	1
Connecting Cable		4002053603	1
Connecting Cable	400205382	400205382	1
Power Cord	400203253	400203253	1
Wall Mounting Frame	01252218	01252218	1
Front Case Sub-Assy	20012299	20012299	1
Front Case	20012282	20012282	1
Screw Cover	24252016	24252016	3
Electric Box Cover2	20112081	20112081	1
Evaporator Support	24212100	24212100	1
Remote Controller	30510065	30510065	1

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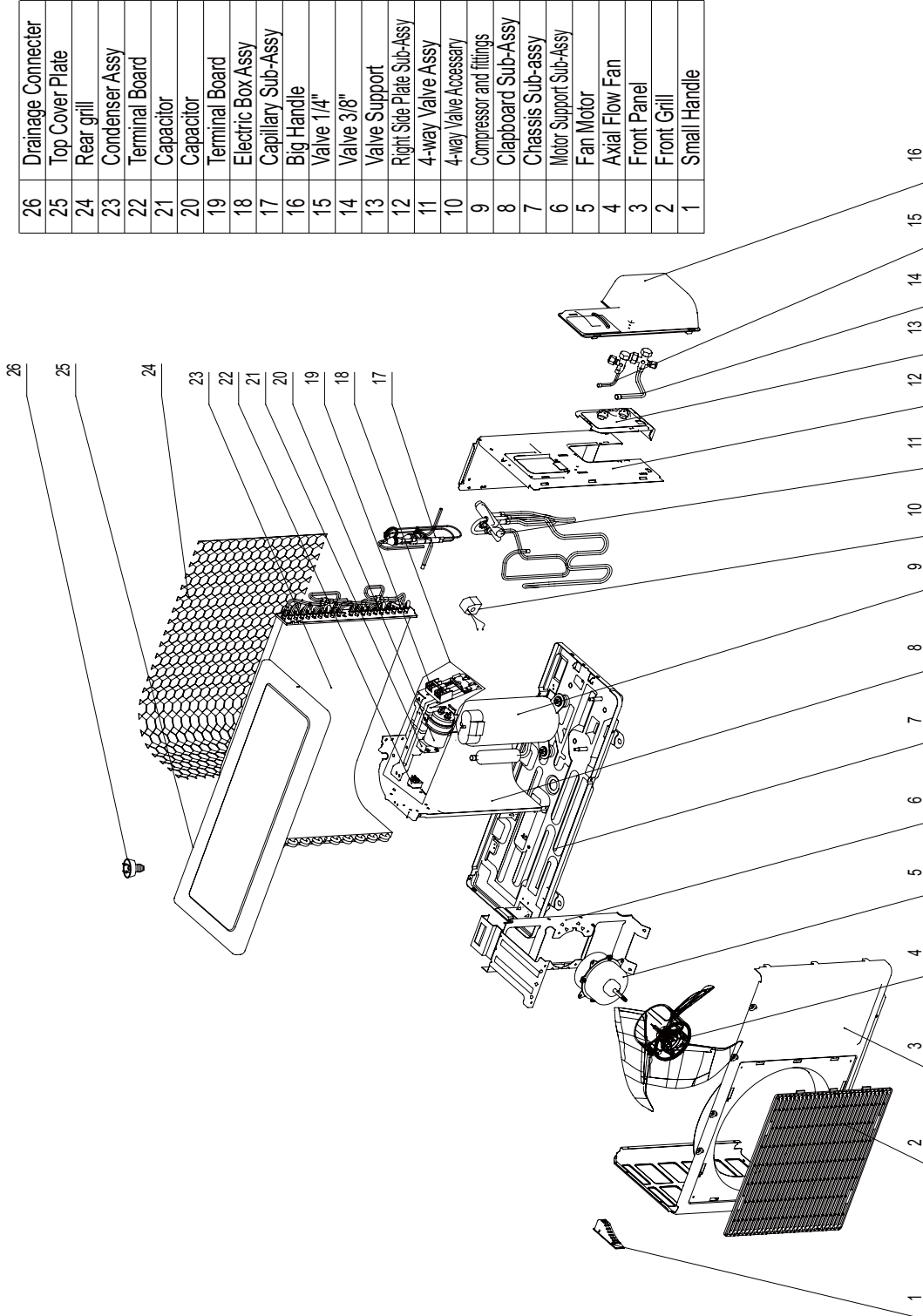
7.5 Exploded View of Components and Parts of outdoor unit 1



Description	Part Code			Qty
	GWC05NA-K1NNB2A/O	GWC07NA-K1NNB2A/O	GWC09NA-K1NNB2A/O	
Chassis Sub-assy	0120366102P	0120362703P	0120362702P	1
Compressor and fittings	00101037	00103151	00103037	1
Overload Protector	00181045	/	00183016	1
Overload Protector	/	/	00180119	1
Compressor Gasket	76710232	/	76716024	1
Condenser Assy	01113502	01113525	01113505	1
Capillary Sub-Assy	03063050	03063073	0310364202	1
Fan Motor	15013156	15013156	15013156	1
Motor Support Sub-Assy	01703018	01703018	01703018	1
Motor Support Sub-Assy	01703019	01703019	01703019	1
Axial Flow Fan	10333002	10333002	10333002	1
Valve Support	01713041	01713041	01713041	1
Valve	07100145	07100145	07100145	1
Valve	07100024	07100024	07100024	1
Discharge Tube	03513921	03513921	03713218	1
Inhalation Tube Sub-Assy	03523774	03733108	03533543	1
Electric Box Assy	0140358405	0140383905	0140383905	1
Capacitor CBB65	33000017	33000018	33000018	1
Capacitor CBB61	33010020	33010020	33010020	1
Terminal Board	42011154	42011154	42011154	1
Right Side Plate Sub-Assy	0130315101	0130315101	0130315101	1
Rear grill	111232042	111232042	11123204	1
Top Cover Sub-Assy	01253263	01253263	01253263	1
Top Cover Plate	01253027	01253027	01253027	1
Front Panel	01433035P	01433035P	01533255P	1
Front Grill	22263002	22263002	22263002	1
Big Handle	26233042	26233042	26233042	1
Clapboard Sub-Assy	26233100	01233107	01233107	1
Small Handle	01233107	26233100	26233100	1

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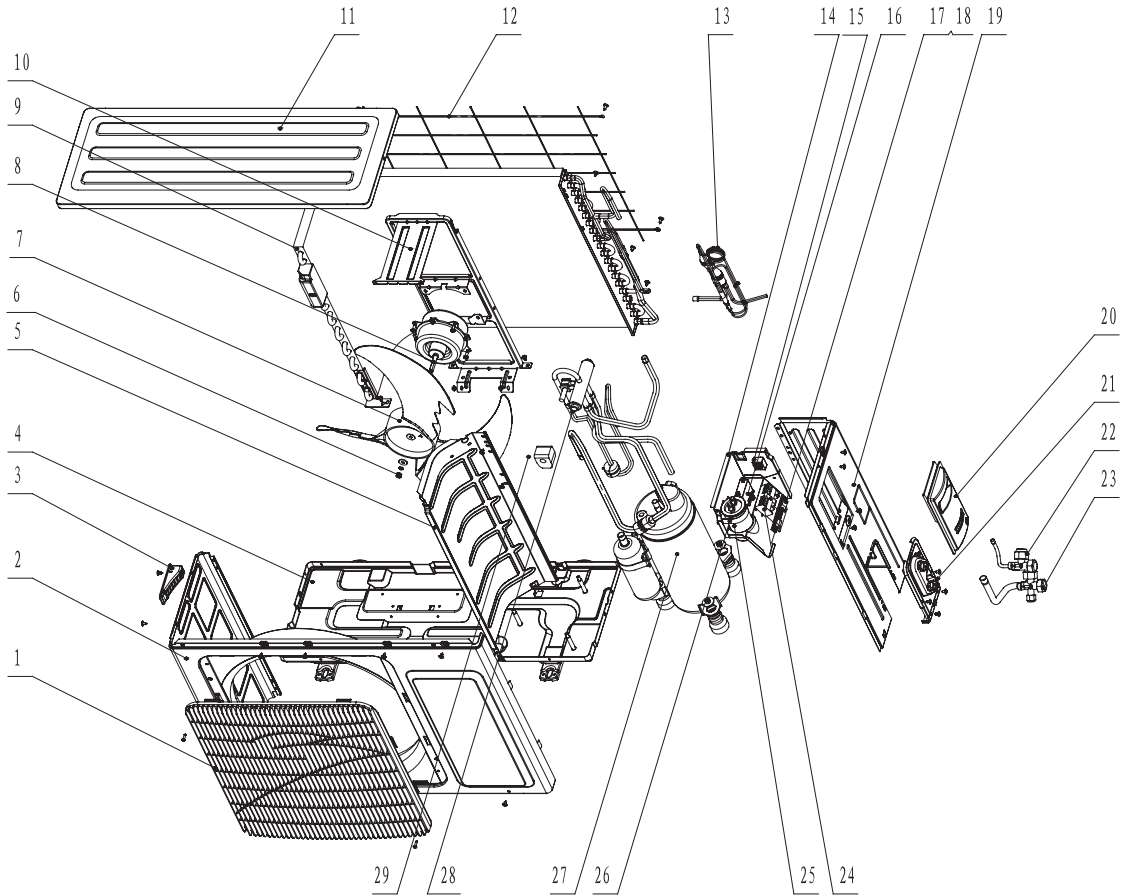
7.6 Exploded View of Components and Parts of outdoor unit 2



Description	Part Code			Qty
	GWH05NA-K1NNB2A/O	GWH07NA-K1NNB2A/O	GWH09NA-K1NNB2A/O	
Chassis Sub-assy	0120366102P	0120362703P	0120362701P	1
Compressor and fittings	00101037	00103151	00103037	1
Overload Protector	00181045		00183016	0
Overload Protector			00180119	0
Compressor Gasket	76710232		76716024	0
Condenser Assy	01113503	01113508	01113506	1
Capillary Sub-Assy	03063051	03063055	03063054	1
Clapboard Sub-Assy	01233107	01233107	01233107	1
Fan Motor	15013156	15013156	15013156	1
Motor Support Sub-Assy	01703018	01703018	01703054	1
Axial Flow Fan	10333002	10333002	10333002	1
Valve Support	01713041	01713041	01713041	1
Valve	07100145	07100145	07100145	1
Valve	07100024	07100024	07100024	1
4-way Valve Assy	03123307	03123306	03023807	1
4-way Valve	43000402	43000402	43000402	1
Magnet Coil	43000400	43000400	43000400	1
Electric Box Assy	02603239	02603262	02603259	1
Capacitor CBB65	33000017	33000018	33000018	1
Capacitor CBB61	33010020	33010020	33010020	1
Terminal Board	42010265	42010265	42010265	1
Right Side Plate Sub-Assy	0130315101	0130315101	0130315101	1
Top Cover Sub-Assy	01253263	01253263	01253263	1
Top Cover Plate	01253027	01253027	01253027	1
Front Panel	01433035P	01433035P	01533255P	1
Front Grill	22263002	22263002	22263002	1
Rear grill	111232042	111232042	11123204	1
Big Handle	26233042	26233042	26233042	1
Drainage Connector	06123401	06123401	06123401	1
Small Handle	26233100	26233100	26233100	1

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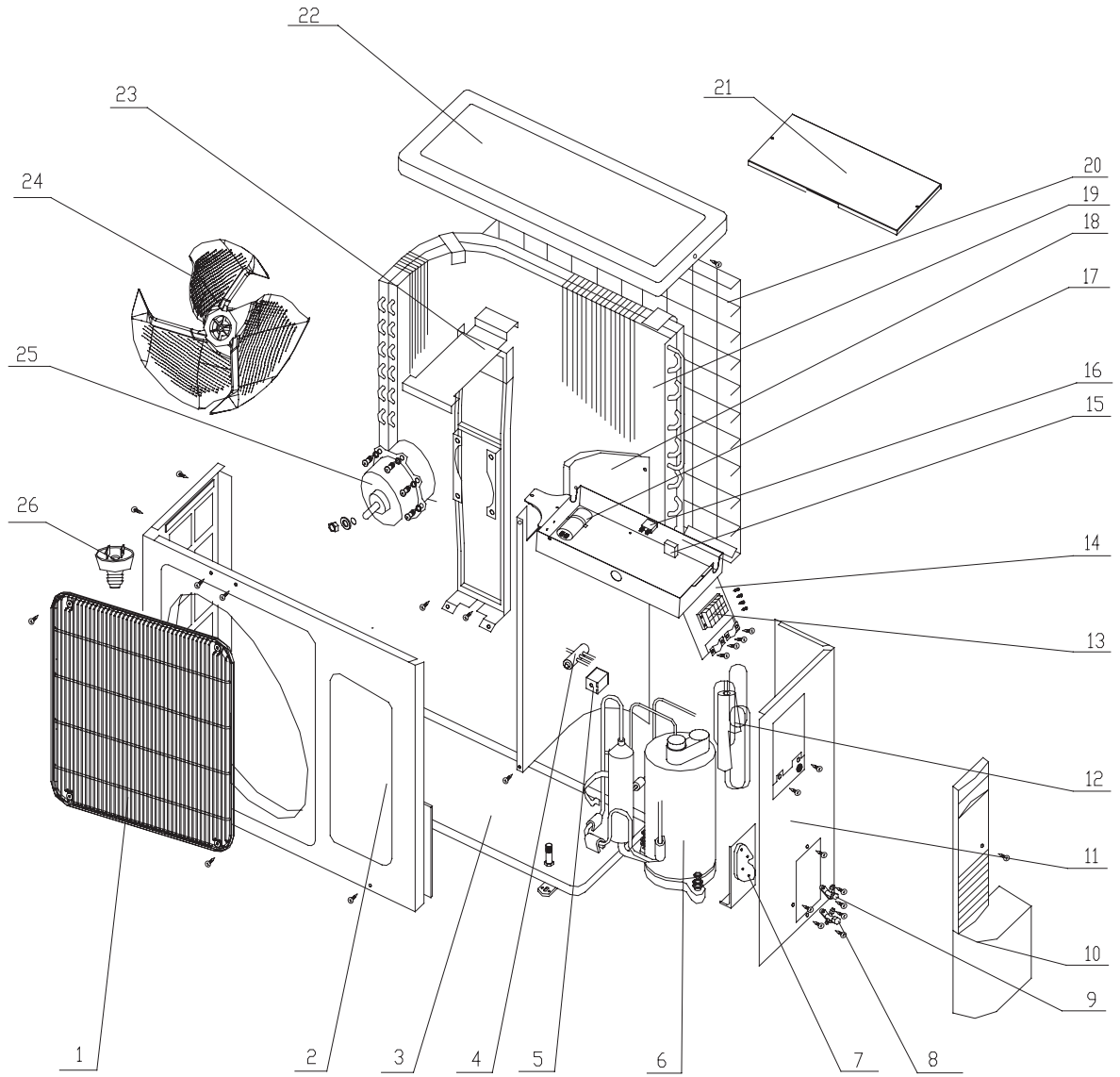
7.7 Exploded View of Components and Parts of outdoor unit 3



No	Description	Part Code		Qty
		GWC12NB-K1NNB1A/O	GWH12NB-K1NNB1A/O	
1	Front Grill	22413431	22413431	1
2	Front Plate	01533026	01533026	1
3	Small Handle	26233100	26233100	1
4	Metal Base	01203748	01203748	1
5	Isolation Sheet	01233066	01233066	1
6	Nut M6	70310131	70310131	1
7	Axial Flow Fan	10333004	10333004	1
8	Motor FW30K	15013067	15013067	1
9	Condenser Assy	01133124	01133521	1
10	Motor Support	01703058	01703058	1
11	Top cover plate	01253031	01253031	1
12	Rear Grill	1112320501	1112320501	1
13	Capillary Assy	03103819	03103811	1
14	Electric Plate	02603104	02603091	1
15	Terminal Board (one)	/	42011147	1
16	Capacitor CBB61 2uF/450V	33010025	33010025	1
17	Capacitor clamp	71010103	71010103	2
18	Insulation Gasket C	70410503	70410523	1
19	Right Side Plate Assy	01303183	01303183	1
20	Handle	26233433	26233433	1
21	Valve Support	0170308901	0170308901	1
22	Valve 1/4"	07100024	07100024	1
23	Valve 1/2"	07100147	07100147	1
24	Terminal Board	42011241	42010265	1
25	Capacitor CBB65 35uF/450V	33010743	33010743	1
26	Capacitor clamp	02143401	02143401	1
27	Compressor QX-B19E150S	00103160	00103160	1
28	4-way Valve	/	43000402	1
29	4-way Valve fittings	/	43000400	1

The above data are subject to be changed without notice.

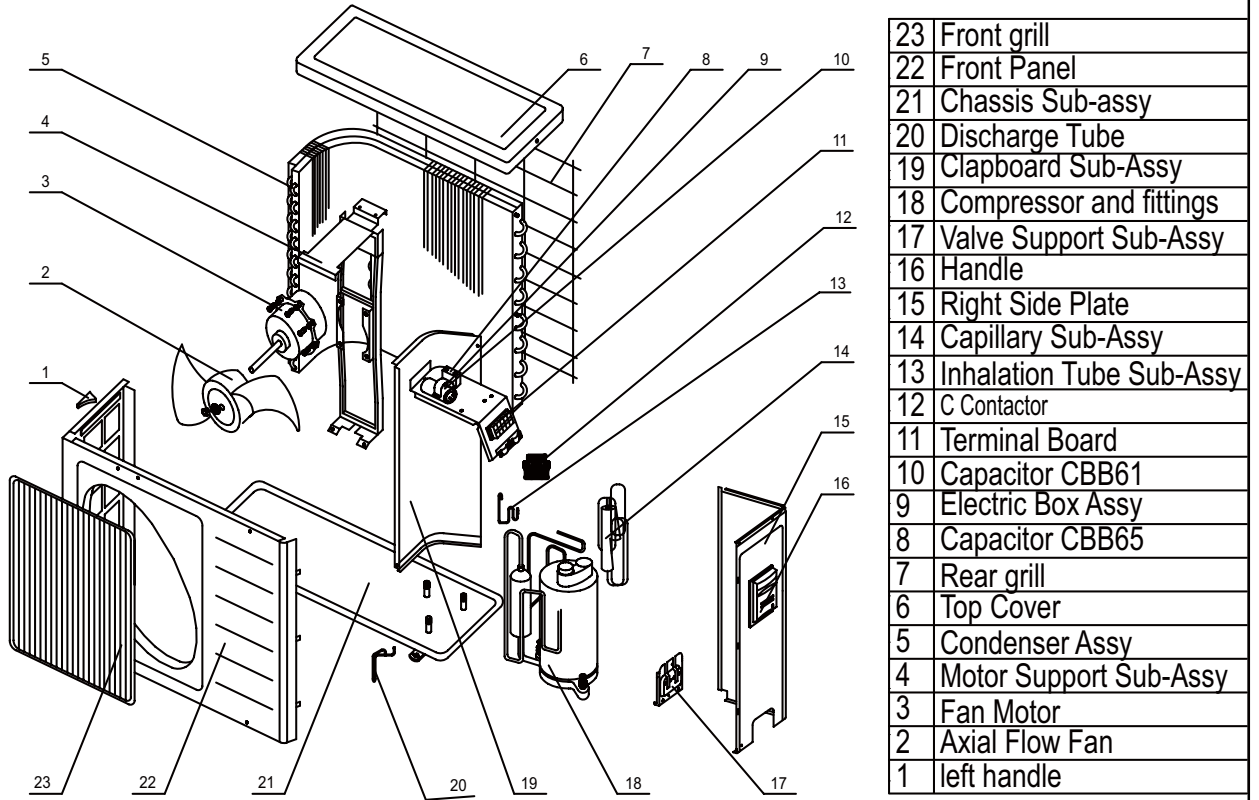
7.8 Exploded View of Components and Parts of outdoor unit 4



No	Description	Part Code		Qty
		GWC18MB-K1NNA3A/O	GWH18MB-K1NNA3A/O	
1	Front Grill	22413431	22413431	1
2	Front Plate	01533012	01533012	1
3	Metal Base	012050361	012050361	1
4	4-way Valve	/	43000403	1
5	4-way Valve Accessary	/	43000400	1
6	Compressor QX-34F050gA	00105017	00105017	1
	Nut with Washer M6	70310013	70310013	3
7	Valve Support	01713043	01713043	1
8	Valve 1/2"	07100147	07100147	1
9	Valve 1/4"	07100024	07100120	1
10	Handle	26233433	26233433	1
11	Right Side Plate Assy	0130200401	0130200401	1
12	Capillary Assy	012050361	03103809	1
13	Terminal Board	42011154	42010265	1
14	Electric Plate	0141342502	01409070	1
15	Capacitor CBB61 2.5uF/450V (VDE)	33010025	33010026	1
16	Terminal Board	/	42011147	1
17	Capacitor 55μF/450V	33000038	33000038	1
	Capacitor clamp	02143401	02141375	1
18	Isolation Sheet	01233417	01239052	1
19	Condenser Assy	01133091	011350051	1
20	Rear Grill	11123205	11123205	1
21	Electric Box Cover	01413048	01413048	1
22	Top cover plate	01253443	01253443	1
23	Motor Support	01703051	01703051	1
24	Axial Flow Fan	10333004	10333004	1
25	Motor FW35X	15013067	150130676	1
	Washer 6	70410252	70410252	1
	Nut M6	70310131	70310131	1
26	Drainage Connector	/	06123401	1

The above data are subject to be changed without notice.

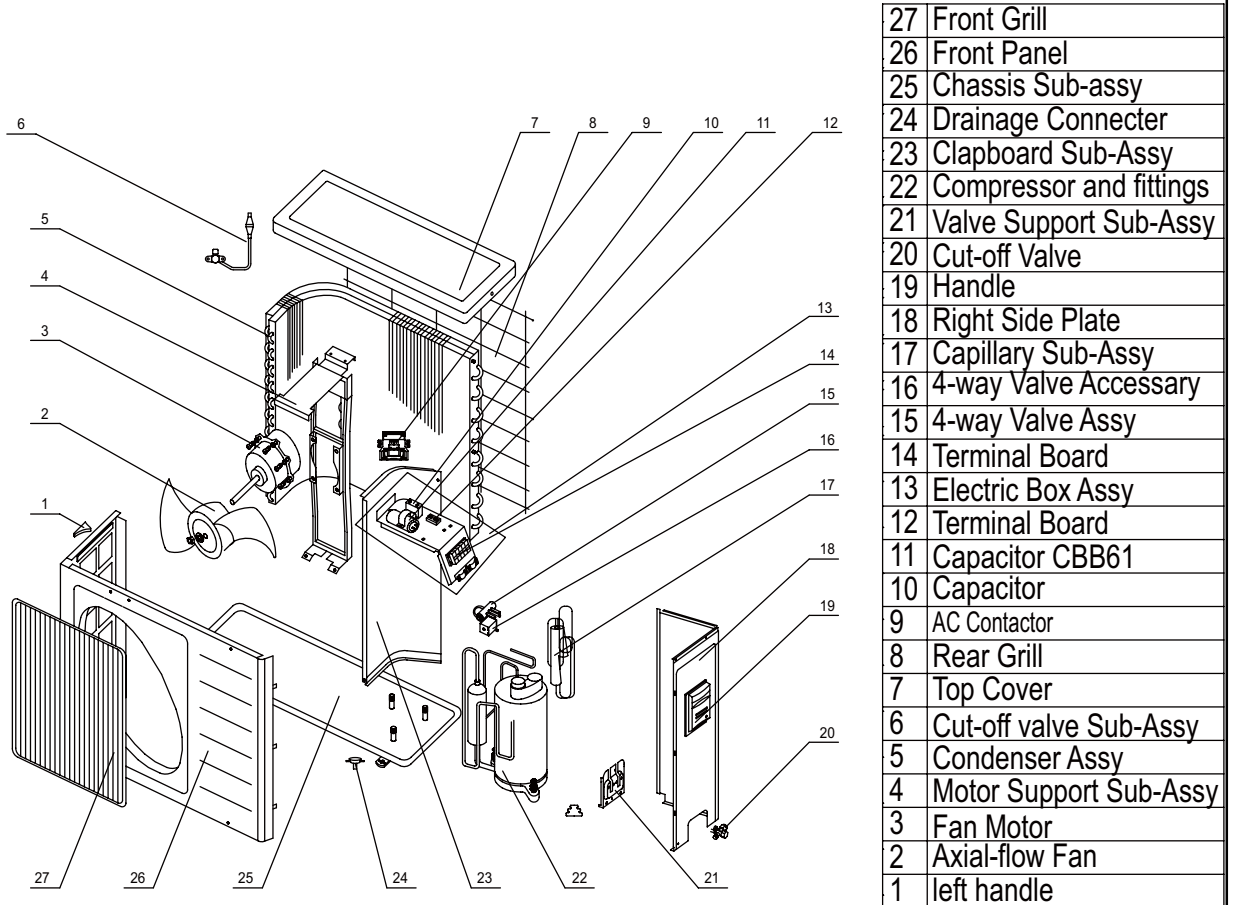
7.9 Exploded View of Components and Parts of outdoor unit 5



Description	Part Code	Qty
	GWC24ND-K1NNB1A/O	
Chassis Sub-assy	0120362602P	1
Valve Support Sub-Assy	01715006	1
Compressor and fittings	00103031	1
Overload Protector	00180253	0
Compressor Gasket	76710202	0
Condenser Assy	01113418	1
Capillary Sub-Assy	03103966	1
Cut-off valve Sub-Assy	07133168	1
Clapboard Sub-Assy	01233035	1
Motor Support Sub-Assy	0170309801	1
Motor Support	01705003	1
Fan Motor	15015057	1
Axial Flow Fan	10335257	1
Inhalation Tube Sub-Assy	03733094	1
Inhalation Tube	03723231	1
Discharge Tube	03713465	1
Electric Box Assy	02603218	1
Capacitor CBB61	33010027	1
Capacitor CBB65	33000039	1
Terminal Board	42011113	1
AC Contactor	44010245	1
Top Cover	01255001	1
Front grill	22415001	1
Right Side Plate	01305013	1
Handle	26235254	1
Front Panel	01305015	1
left handle	26235401	1
Rear grill	014730371	1
Cut-off valve Sub-Assy	07133158	1
Cut-off Valve	07100105	1

The above data are subject to be changed without notice.

7.10 Exploded View of Components and Parts of outdoor unit 6

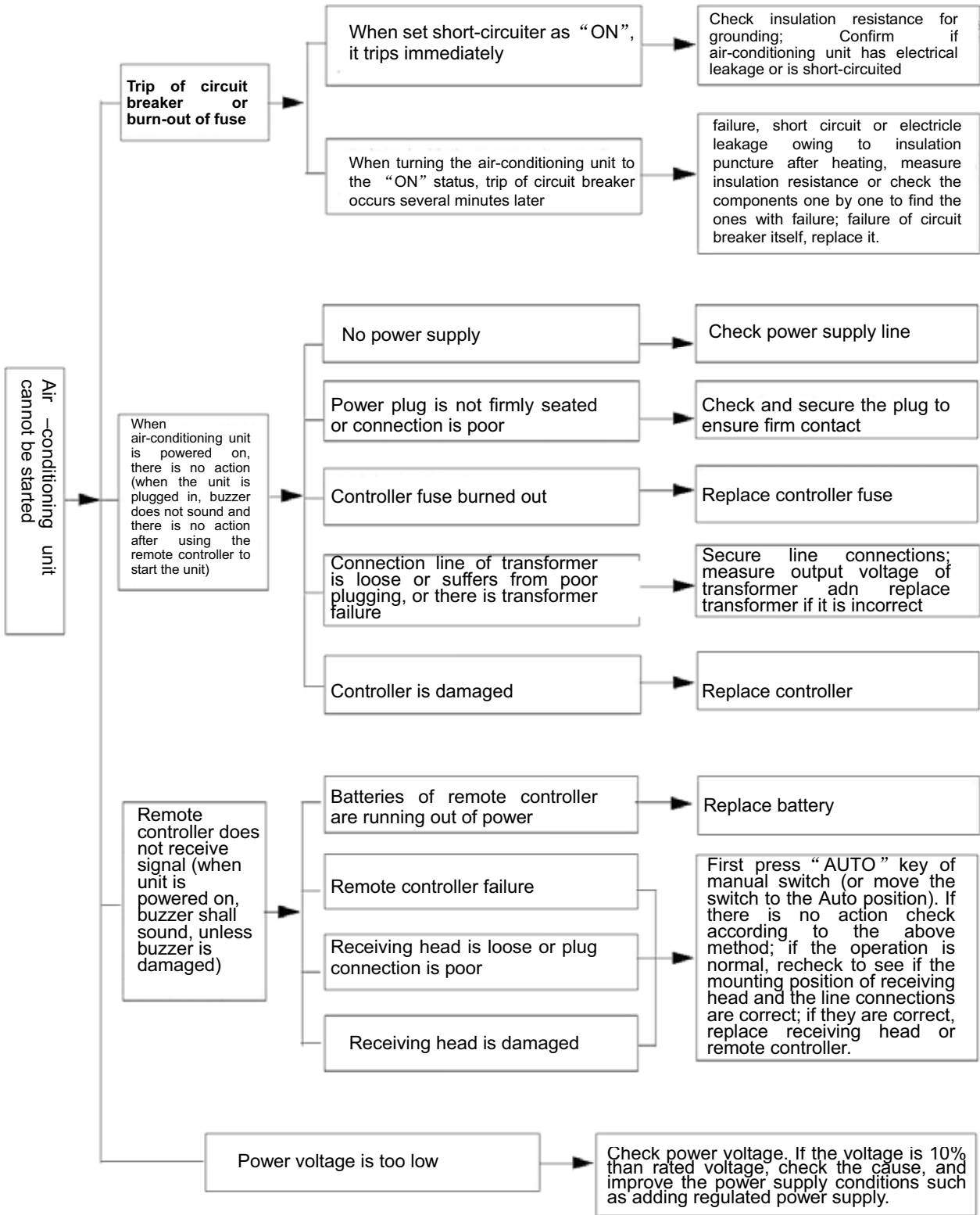


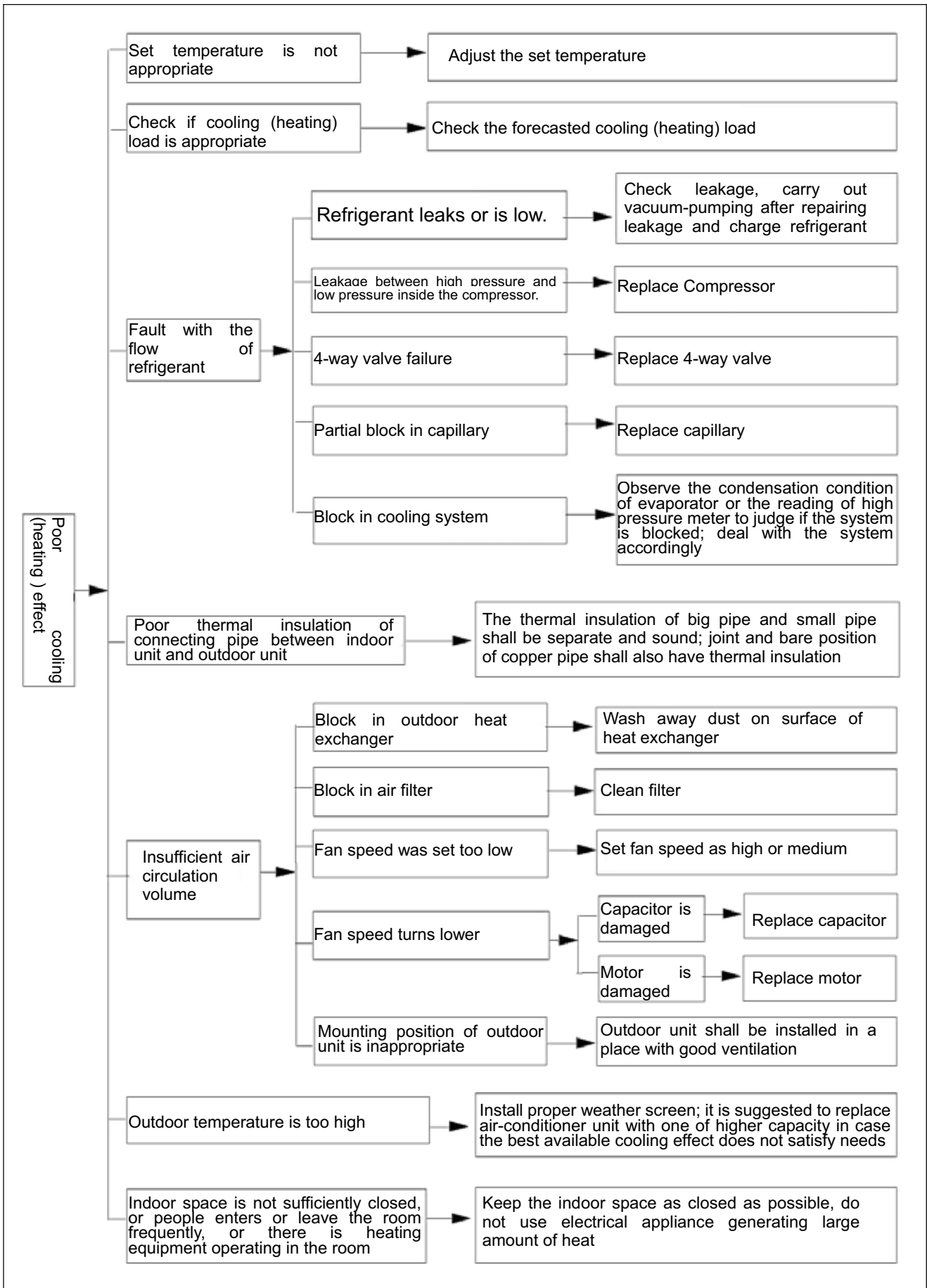
Description	Part Code	Qty
	GWH24ND-K1NNB1A/O	
Chassis Sub-assy	01205132P	1
Compressor and fittings	00105024	1
Condenser Assy	01113423	1
Capillary Sub-Assy	03103972	1
Clapboard Sub-Assy	01235027	1
Motor Support Sub-Assy	01705020	1
Fan Motor	1501506102	1
Axial Flow Fan	10335008	1
Valve support assy	01715010P	1
Cut-off valve Sub-Assy	0713521001	1
Cut-off valve Sub-Assy	0713520901	1
Magnet Coil	4300040047	1
4-way Valve Assy	03123263	1
Electric Box Assy	02603174	1
Capacitor CBB61	33010010	1
Capacitor CBB65	33000039	1
Terminal Board	420101941	1
Terminal Board	42011147	1
AC Contactor	44010245	1
Left Side Plate	01305041P	1
Right Side Plate	01305053P	1
Front Panel	01535005P	1
Front grill	22415002	1
left handle	26235401	1
Handle	26235254	1
Rear Grill	01475007	1
Top Cover	01255005P	1
Drainage Connector	06123401	1
Drainage Plug	06813401	3

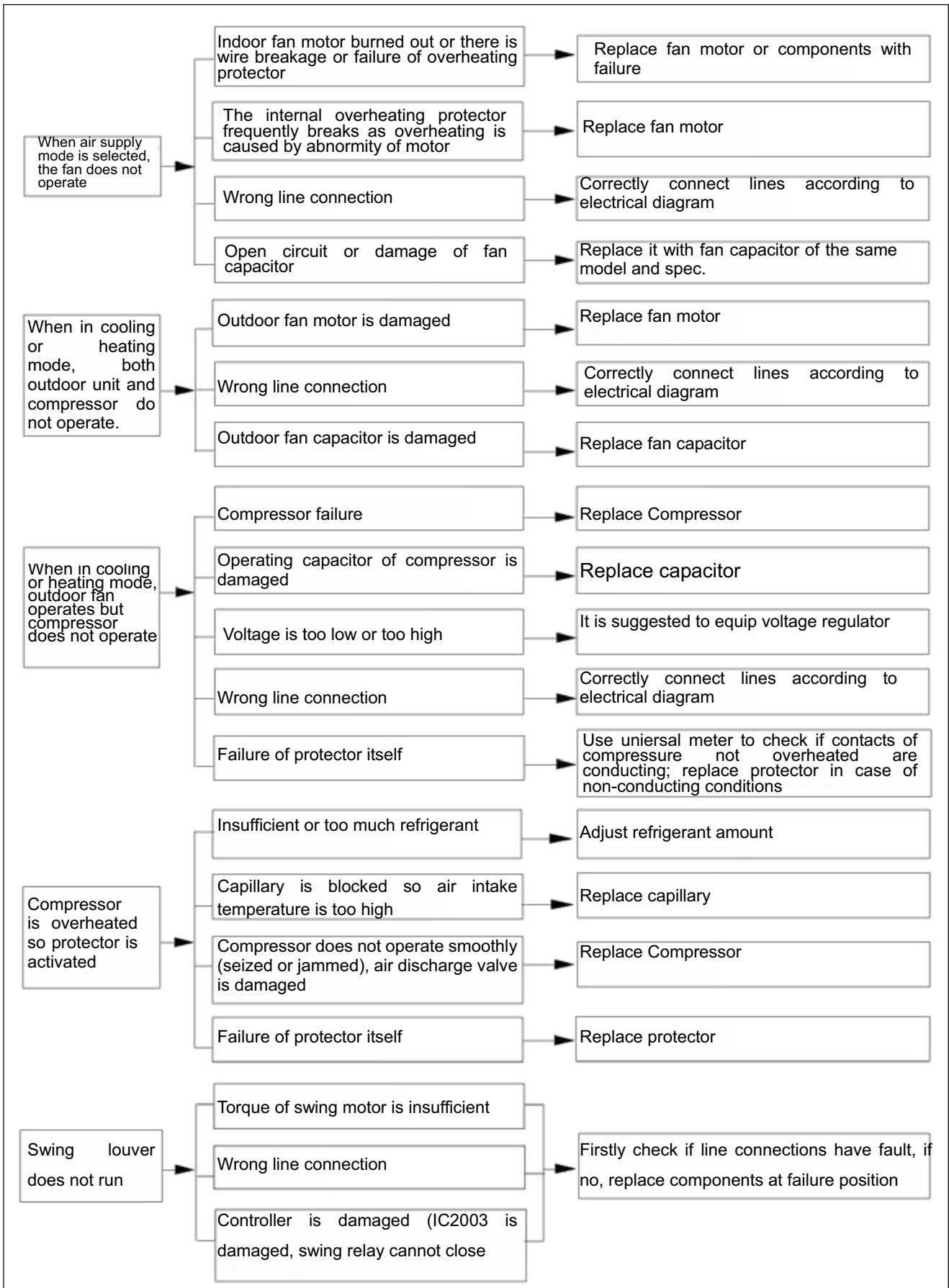
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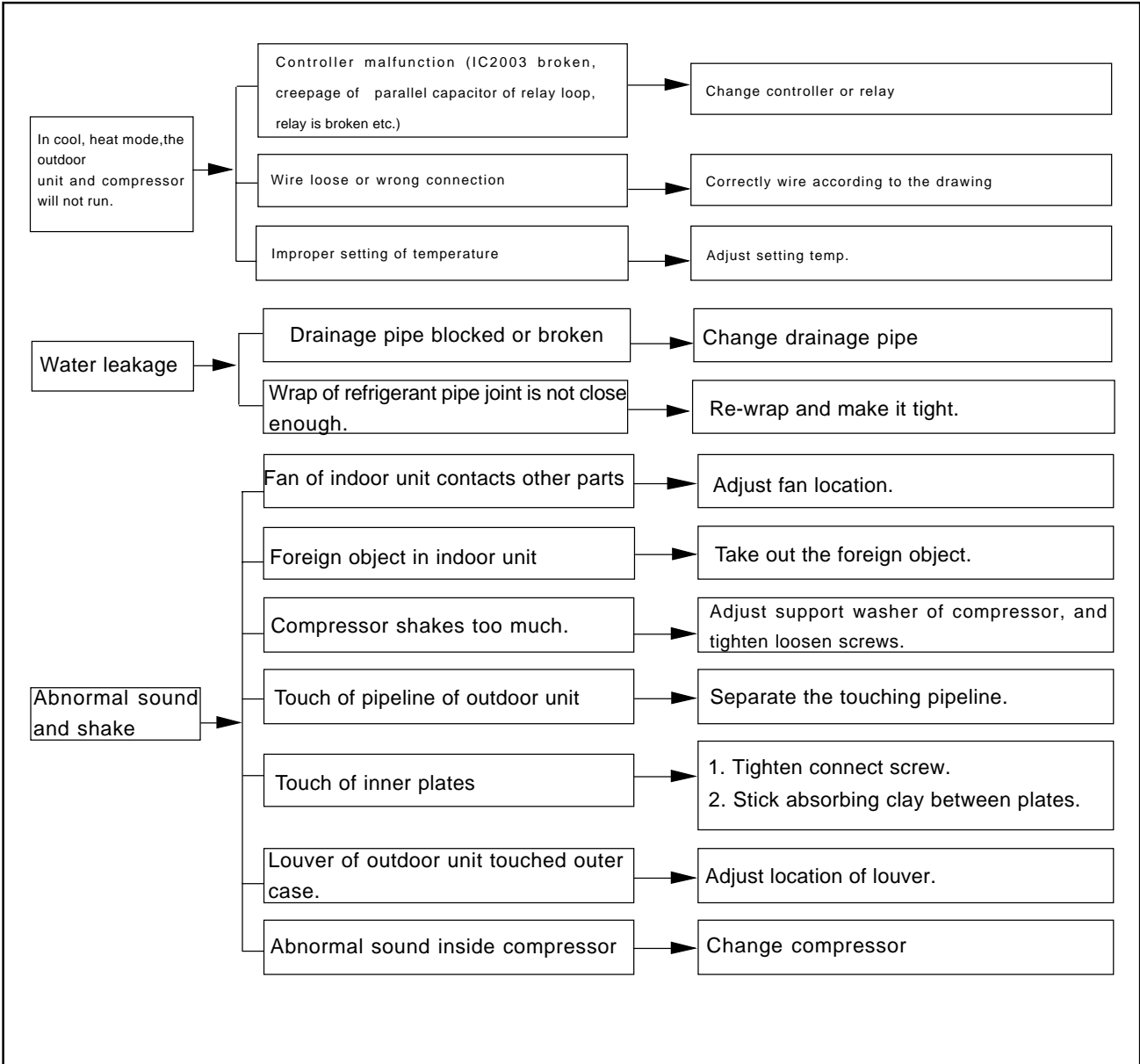
9 Trouble-Shooting

Attention: Be sure to insert the jump cap pf controller to the new controller when replace the controller, otherwise, the unit can not ON abnormally when the indicator lamp turn off for 3S and flash 15 times (dual 8 displays C5).









Remark: There are no heating malfunctions in the above for the cooling only unit.

The block protection H6 of PG motor

Possible results:

1. Fan speed is too slow result in fan port blocked;
2. Fan blade was blocked;
3. Motor was blocked;
4. Fan motor capacity was damaged;
5. Motor damaged (off-flavor, winding open circuit or short circuit are abnormal, be attention to differentiate if the temperature of motor shell if high and result in action of thermal protection under test winding value)
6. Holl integrate circuit board damaged (under normal operation, input and output have voltage)
7. Main board damaged
8. Motor thermal protection

Solution:

1. Remove barrier;
2. Reassembly;
3. Exchange motor;
4. Exchange capacity;
5. Exchange motor;
6. Exchange circuit board;
7. Exchange main board;
8. Motor cannot be protected under normal situation. The motor load is quite strong will be result in other exceptional situation, eg: evaporator is dirty, many dust attached fan blade, so the thermal protection will occur during running, the solution will be decided by certain results.