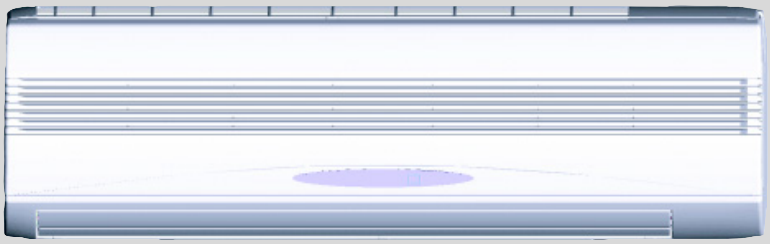
1 Introduction and Features

Model	Remarks
GWCN18B5TD1LA GWHN18B5TD1LA GWCN24B5TD1LA GWHN24B5TD1LA	1PH 220V 60Hz R22



Model	Remarks
GWCN18B5TD1CA GWHN18B5TD1CA GWCN24B5TD1CA GWHN24B5TD1CA	1Ph 220V 60Hz R22

Model	Remarks
GWHN24B5NK1NA	1Ph 220-240V 50Hz R22
GWCN24B5NE1IB GWCN24B5NE1NB	1Ph 230V 50Hz R22

Model	Remarks
GWHN24B5NK3FA	1Ph 220-240V 50Hz R410A

2 Specifications and Technical Parameters

Model		GWCN18B5TD1CA	GWHN18B5TD1CA	
Function		COOLING	COOLING	HEATING
Rated Voltage		220V~	220V~	
Rated Frequency		60HZ	60HZ	
Total Capacity (W/Btu/h)		18000Btu/h	18000Btu/h	20000Btu/h
Power Input (W)		2200	2200	2250
Rated Input (W)		3300	3375	3375
Rated Current (A)		15	15.34	15.34
Air Flow Volume (m^3/h) (H/M/L)**		840	840	
Dehumidifying Volume (l/h)		3	3	
EER / C.O.P (W/W)		2.4	3.6	
Energy Class		-	-	
Indoor unit	Model of Indoor Unit	GWCN18B5TD1CA/I	GWHN18B5TD1CA/I	
	Fan Motor Speed (r/min) (H/M/L)	1400	1400	
	Output of Fan Motor (w)	20	20	
	Input of Heater (w)	-	-	
	Fan Motor Capacitor (uF)	1	1	
	Fan Motor RLA(A)	0.1	0.1	
	Fan Type-Piece	Cross flow fan – 1	Cross flow fan – 1	
	Diameter-Length (mm)	φ96 X 840	φ96 X 840	
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube	
	Pipe Diameter (mm)	¢7	¢7	
	Row-Fin Gap(mm)	2-1.6	2-1.6	
	Coil length (l) x height (H) x coil width (L)	785x195x25.4	785x195x25.4	
	Swing Motor Model	MP24GA	MP24GA	
	Output of Swing Motor (W)	2	2	
	Fuse (A)	PCB 3.15A Transformer 0.2A	PCB 3.15A Transformer 0.2A	
	Sound Pressure Level dB (A) (H/M/L)	46/44/42	46/44/42	
	Sound Power Level dB (A) (H/M/L)***	56/54/52	56/54/52	
	Dimension (L/W/H) (mm)	1020x310x228	1020x310x228	
	Dimension of Package (L/W/H) (mm)	1178x325x390	1178x325x390	
	Net Weight /Gross Weight (kg)	13/17	13/17	

Outdoor unit	Model of Outdoor Unit		GWCN18B5TD1CA/O	GWHN18B5TD1CA/O
	Compressor Model		AWZ5517EXN	
	Compressor Type		rotary compressor	
	L.R.A. (A)		43	
	Compressor RLA(A)		7	
	Compressor Power Input(W)		1580	
	Overload Protector		-	
	Throttling Method		Capillary	
	Starting Method		Capacitor	
	Working Temp Range (℃)		-7℃≤T≤43℃	
	Condenser		Aluminum fin-copper tube	
	Pipe Diameter (mm)		¢9.52	
	Rows-Fin Gap(mm)		2-1.7	2-1.8
	Coil length (l) x height (H) x coil width (L)		660x735x44	
	Fan Motor Speed (rpm)		815	
	Output of Fan Motor (W)		68	
	Fan Motor RLA(A)		0.3	
	Fan Motor Capacitor (uF)		3.5	
	Air Flow Volume of Outdoor Unit		/	
	Fan Type-Piece		Axial fan –1	
	Fan Diameter (mm)		460	
	Defrosting Method		Auto defrost	
	Climate Type		T3	
	Isolation		I	
	Moisture Protection		IP24	
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	
	Sound Pressure Level dB (A) (H/M/L)		56/54/52	
	Sound Power Level dB (A) (H/M/L)		66/64/62	
	Dimension (L/W/H) (mm)		950x412x700	
	Dimension of Package (L/W/H)(mm)		1100x450x755	
	Net Weight /Gross Weight (kg)		59/64	
	Refrigerant Charge (kg)		R22 /1.85	
Connection Pipe	Length (m)		4	
	Gas additional charge(g/m)		/	
	Outer Diameter	Liquid Pipe (mm)	¢6	
		Gas Pipe (mm)	¢12	
	Max Distance	Height (m)	5	
		Length (m)	10	
Loading Quantity	20' Container	Interior Dimensions L*W*H：5898*2352*2393，Door Opening W*H：2343*2280	56	
	40' Container	Interior Dimensions L*W*H：12032*2350*2390，Door Opening W*H：2343*2280	116	
	40' High Cube Container	Interior Dimensions L*W*H：12032*2350*2697，Door Opening W*H：2338*2585	138	

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

Model		GWCN24B5TD1CA	GWHN24B5TD1CA	
Function		COOLING	COOLING	HEATING
Rated Voltage		220V~	220V~	
Rated Frequency		60HZ	60HZ	
Total Capacity (W/Btu/h)		24000Btu/h	24000Btu/h	26400Btu/h
Power Input (W)		3050	3050	3100
Rated Input (W)		4575	4650	4650
Rated Current (A)		20.8	21	21
Air Flow Volume (m^3/h) (H/M/L)**		900	900	
Dehumidifying Volume (l/h)		4	4	
EER / C.O.P (W/W)		2.3	2.3/2.5	
Energy Class		-	-	
Indoor unit	Model of Indoor Unit	GWCN24B5TD1CA/I	GWHN24B5TD1CA/I	
	Fan Motor Speed (r/min) (H/M/L)	1400	1400	
	Output of Fan Motor (w)	20	20	
	Input of Heater (w)	-	-	
	Fan Motor Capacitor (uF)	1	1	
	Fan Motor RLA(A)	0.1	0.1	
	Fan Type-Piece	Cross flow fan – 1	Cross flow fan – 1	
	Diameter-Length (mm)	φ96 X 840	φ96 X 840	
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube	
	Pipe Diameter (mm)	¢7	¢7	
	Row-Fin Gap(mm)	2-1.6	2-1.6	
	Coil length (l) x height (H) x coil width (L)	785x195x25.4	785x195x25.4	
	Swing Motor Model	MP24GA	MP24GA	
	Output of Swing Motor (W)	2	2	
	Fuse (A)	PCB 3.15A Transformer 0.2A	PCB 3.15A Transformer 0.2A	
	Sound Pressure Level dB (A) (H/M/L)	48/46/44	48/46/44	
	Sound Power Level dB (A) (H/M/L)***	58/56/54	58/56/54	
	Dimension (L/W/H) (mm)	1020x310x228	1020x310x228	
	Dimension of Package (L/W/H) (mm)	1078x325x390	1078x325x390	
	Net Weight /Gross Weight (kg)	13/17	13/17	

Outdoor unit	Model of Outdoor Unit		GWCN24B5TD1CA/O	GWHN24B5TD1CA/O
	Compressor Model		AWZ5517EXN	
	Compressor Type		rotary compressor	
	L.R.A. (A)		60	
	Compressor RLA(A)		10	
	Compressor Power Input(W)		2160	
	Overload Protector		-	
	Throttling Method		Capillary	
	Starting Method		Capacitor	
	Working Temp Range (℃)		-7℃≤T≤43℃	
	Condenser		Aluminum fin-copper tube	
	Pipe Diameter (mm)		¢9.52	
	Rows-Fin Gap(mm)		2-1.7	2-1.8
	Coil length (l) x height (H) x coil width (L)		660x735x44	
	Fan Motor Speed (rpm)		815	
	Output of Fan Motor (W)		68	
	Fan Motor RLA(A)		0.3	
	Fan Motor Capacitor (uF)		3.5	
	Air Flow Volume of Outdoor Unit		/	
	Fan Type-Piece		Axial fan –1	
	Fan Diameter (mm)		460	
	Defrosting Method		Auto defrost	
	Climate Type		T3	
	Isolation		I	
	Moisture Protection		IP24	
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	
	Sound Pressure Level dB (A) (H/M/L)		57/55/53	
	Sound Power Level dB (A) (H/M/L)		67/65/63	
	Dimension (L/W/H) (mm)		950x412x700	
	Dimension of Package (L/W/H)(mm)		1100x450x755	
	Net Weight /Gross Weight (kg)		59/64	
	Refrigerant Charge (kg)		R22 /2.3	
Connection Pipe	Length (m)		4	
	Gas additional charge(g/m)		/	
	Outer Diameter	Liquid Pipe (mm)	¢6	
		Gas Pipe (mm)	¢12	
	Max Distance	Height (m)	5	
		Length (m)	10	
Loading Quantity	20' Container	Interior Dimensions L*W*H: 5898*2352*2393, Door Opening W*H: 2343*2280	56	
	40' Container	Interior Dimensions L*W*H: 12032*2350*2390, Door Opening W*H: 2343*2280	116	
	40' High Cube Container	Interior Dimensions L*W*H: 12032*2350*2697, Door Opening W*H: 2338*2585	138	

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

Model		GWCN18B5TD1LA	GWHN18B5TD1LA	
Function		COOLING	COOLING	HEATING
Rated Voltage		220V~	220V~	
Rated Frequency		60HZ	60HZ	
Total Capacity (W/Btu/h)		18000Btu/h	18000Btu/h	20000Btu/h
Power Input (W)		2200	2200	2250
Rated Input (W)		3300	3375	3375
Rated Current (A)		15	15.34	15.34
Air Flow Volume (m^3/h) (H/M/L)**		840	840	
Dehumidifying Volume (l/h)		3	3	
EER / C.O.P (W/W)		2.4	3.6	
Energy Class		-	-	
Indoor unit	Model of Indoor Unit	GWCN18B5TD1LA/I	GWHN18B5TD1LA/I	
	Fan Motor Speed (r/min) (H/M/L)	1400	1400	
	Output of Fan Motor (w)	20	20	
	Input of Heater (w)	-	-	
	Fan Motor Capacitor (uF)	1	1	
	Fan Motor RLA(A)	0.1	0.1	
	Fan Type-Piece	Cross flow fan – 1	Cross flow fan – 1	
	Diameter-Length (mm)	φ96 X 840	φ96 X 840	
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube	
	Pipe Diameter (mm)	¢7	¢7	
	Row-Fin Gap(mm)	2-1.6	2-1.6	
	Coil length (l) x height (H) x coil width (L)	785x195x25.4	785x195x25.4	
	Swing Motor Model	MP24GA	MP24GA	
	Output of Swing Motor (W)	2	2	
	Fuse (A)	PCB 3.15A Transformer 0.2A	PCB 3.15A Transformer 0.2A	
	Sound Pressure Level dB (A) (H/M/L)	46/44/42	46/44/42	
	Sound Power Level dB (A) (H/M/L)***	56/54/52	56/54/52	
	Dimension (L/W/H) (mm)	1020x310x228	1020x310x228	
	Dimension of Package (L/W/H) (mm)	1178x325x390	1178x325x390	
	Net Weight /Gross Weight (kg)	13/17	13/17	

Outdoor unit	Model of Outdoor Unit		GWCN18B5TD1LA/O	GWHN18B5TD1LA/O
	Compressor Model		AWZ5517EXN	
	Compressor Type		rotary compressor	
	L.R.A. (A)		43	
	Compressor RLA(A)		7	
	Compressor Power Input(W)		1580	
	Overload Protector		-	
	Throttling Method		Capillary	
	Starting Method		Capacitor	
	Working Temp Range (℃)		-7℃≤T≤43℃	
	Condenser		Aluminum fin-copper tube	
	Pipe Diameter (mm)		¢9.52	
	Rows-Fin Gap(mm)		2-1.7	2-1.8
	Coil length (l) x height (H) x coil width (L)		660x735x44	
	Fan Motor Speed (rpm)		815	
	Output of Fan Motor (W)		68	
	Fan Motor RLA(A)		0.3	
	Fan Motor Capacitor (uF)		3.5	
	Air Flow Volume of Outdoor Unit		/	
	Fan Type-Piece		Axial fan –1	
	Fan Diameter (mm)		460	
	Defrosting Method		Auto defrost	
	Climate Type		T3	
	Isolation		I	
	Moisture Protection		IP24	
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	
	Sound Pressure Level dB (A) (H/M/L)		56/54/52	
	Sound Power Level dB (A) (H/M/L)		66/64/62	
	Dimension (L/W/H) (mm)		950x412x700	
	Dimension of Package (L/W/H)(mm)		1100x450x755	
	Net Weight /Gross Weight (kg)		59/64	
	Refrigerant Charge (kg)		R22 /1.85	
Connection Pipe	Length (m)		4	
	Gas additional charge(g/m)		/	
	Outer Diameter	Liquid Pipe (mm)	¢6	
		Gas Pipe (mm)	¢12	
	Max Distance	Height (m)	5	
		Length (m)	10	
Loading Quantity	20' Container	Interior Dimensions L*W*H: 5898*2352*2393, Door Opening W*H: 2343*2280	56	
	40' Container	Interior Dimensions L*W*H: 12032*2350*2390, Door Opening W*H: 2343*2280	116	
	40' High Cube Container	Interior Dimensions L*W*H: 12032*2350*2697, Door Opening W*H: 2338*2585	138	

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

Model		GWCN24B5TD1LA	GWHN24B5TD1LA	
Function		COOLING	COOLING	HEATING
Rated Voltage		220V~	220V~	
Rated Frequency		60HZ	60HZ	
Total Capacity (W/Btu/h)		24000Btu/h	24000Btu/h	26400Btu/h
Power Input (W)		3050	3050	3100
Rated Input (W)		4575	4650	4650
Rated Current (A)		20.8	21	21
Air Flow Volume (m^3/h) (H/M/L)**		900	900	
Dehumidifying Volume (l/h)		4	4	
EER / C.O.P (W/W)		2.3	2.3/2.5	
Energy Class		-	-	
Indoor unit	Model of Indoor Unit	GWCN24B5TD1LA/I	GWHN24B5TD1LA/I	
	Fan Motor Speed (r/min) (H/M/L)	1400	1400	
	Output of Fan Motor (w)	20	20	
	Input of Heater (w)	-	-	
	Fan Motor Capacitor (uF)	1	1	
	Fan Motor RLA(A)	0.1	0.1	
	Fan Type-Piece	Cross flow fan – 1	Cross flow fan – 1	
	Diameter-Length (mm)	φ96 X 840	φ96 X 840	
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube	
	Pipe Diameter (mm)	¢7	¢7	
	Row-Fin Gap(mm)	2-1.6	2-1.6	
	Coil length (l) x height (H) x coil width (L)	785x195x25.4	785x195x25.4	
	Swing Motor Model	MP24GA	MP24GA	
	Output of Swing Motor (W)	2	2	
	Fuse (A)	PCB 3.15A Transformer 0.2A	PCB 3.15A Transformer 0.2A	
	Sound Pressure Level dB (A) (H/M/L)	48/46/44	48/46/44	
	Sound Power Level dB (A) (H/M/L)***	58/56/54	58/56/54	
	Dimension (L/W/H) (mm)	1020x310x228	1020x310x228	
	Dimension of Package (L/W/H) (mm)	1078x325x390	1078x325x390	
	Net Weight /Gross Weight (kg)	13/17	13/17	

Outdoor unit	Model of Outdoor Unit		GWCN24B5TD1LA/O	GWHN24B5TD1LA/O
	Compressor Model		AWZ5517EXN	
	Compressor Type		rotary compressor	
	L.R.A. (A)		60	
	Compressor RLA(A)		10	
	Compressor Power Input(W)		2160	
	Overload Protector		-	
	Throttling Method		Capillary	
	Starting Method		Capacitor	
	Working Temp Range (℃)		-7℃≤T≤43℃	
	Condenser		Aluminum fin-copper tube	
	Pipe Diameter (mm)		¢9.52	
	Rows-Fin Gap(mm)		2-1.7	2-1.8
	Coil length (l) x height (H) x coil width (L)		660x735x44	
	Fan Motor Speed (rpm)		815	
	Output of Fan Motor (W)		68	
	Fan Motor RLA(A)		0.3	
	Fan Motor Capacitor (uF)		3.5	
	Air Flow Volume of Outdoor Unit		/	
	Fan Type-Piece		Axial fan –1	
	Fan Diameter (mm)		460	
	Defrosting Method		Auto defrost	
	Climate Type		T3	
	Isolation		I	
	Moisture Protection		IP24	
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	
	Sound Pressure Level dB (A) (H/M/L)		57/55/53	
	Sound Power Level dB (A) (H/M/L)		67/65/63	
	Dimension (L/W/H) (mm)		950x412x700	
	Dimension of Package (L/W/H)(mm)		1100x450x755	
	Net Weight /Gross Weight (kg)		59/64	
	Refrigerant Charge (kg)		R22 /2.3	
Connection Pipe	Length (m)		4	
	Gas additional charge(g/m)		/	
	Outer Diameter	Liquid Pipe (mm)	¢9.52	
		Gas Pipe (mm)	¢16	
	Max Distance	Height (m)	5	
		Length (m)	10	
Loading Quantity	20' Container	Interior Dimensions L*W*H：5898*2352*2393，Door Opening W*H：2343*2280	56	
	40' Container	Interior Dimensions L*W*H：12032*2350*2390，Door Opening W*H：2343*2280	116	
	40' High Cube Container	Interior Dimensions L*W*H：12032*2350*2697，Door Opening W*H：2338*2585	138	

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

Model		GWCN24B5NE1IB	GWCN24B5NE1NB
Function		COOLING	COOLING
Rated Voltage		230V~	230V~
Rated Frequency		50HZ	50HZ
Total Capacity (W/Btu/h)		24000Btu/h	24000Btu/h
Power Input (W)		2450	2450
Rated Input (W)		3430	3430
Rated Current (A)		14.9	14.9
Air Flow Volume (m^3/h) (H/M/L)**		900	900
Dehumidifying Volume (l/h)		3.3	3.3
EER / C.O.P (W/W)		2.8	2.8
Energy Class		-	-
Indoor unit	Model of Indoor Unit	GWCN24B5NE1IB/I	GWCN24B5NE1NB/I
	Fan Motor Speed (r/min) (H/M/L)	1350/1250/1150	1350/1250/1150
	Output of Fan Motor (w)	20	20
	Input of Heater (w)	-	-
	Fan Motor Capacitor (uF)	1	1
	Fan Motor RLA(A)	0.09	0.09
	Fan Type-Piece	Cross flow fan – 1	Cross flow fan – 1
	Diameter-Length (mm)	φ98 X 797	φ98 X 797
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)	¢7	¢7
	Row-Fin Gap(mm)	2 X19.05	2 X19.05
	Coil length (l) x height (H) x coil width (L)	785x490x22	785x490x22
	Swing Motor Model	MP24GA	MP24GA
	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/M/L)	48/45/42	48/45/42
	Sound Power Level dB (A) (H/M/L)***	/	/
	Dimension (L/W/H) (mm)	1020x310x228	1020x310x228
	Dimension of Package (L/W/H) (mm)	1078x325x390	1078x325x390
	Net Weight /Gross Weight (kg)	13/17	13/17

Outdoor unit	Model of Outdoor Unit		GWCN24B5NE1IB/O	GWCN24B5NE1IB/O
	Compressor Model		Xian Qingan	Xian Qingan
	Compressor Type		Rotary	Rotary
	L.R.A. (A)		55	55
	Compressor RLA(A)		10	10
	Compressor Power Input(W)		2130	2130
	Overload Protector		-	-
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (℃)		-5℃≤T≤43℃	-5℃≤T≤43℃
	Condenser		Aluminum fin-copper tube	
	Pipe Diameter (mm)		¢9.52	¢9.52
	Rows-Fin Gap(mm)		2-25.4	2-25.4
	Coil length (l) x height (H) x coil width (L)		920x660x44	920x660x44
	Fan Motor Speed (rpm)		780	780
	Output of Fan Motor (W)		68	68
	Fan Motor RLA(A)		4	4
	Fan Motor Capacitor (uF)		2.5	2.5
	Air Flow Volume of Outdoor Unit		3000	3000
	Fan Type-Piece		Axial fan –1	Axial fan –1
	Fan Diameter (mm)		460	460
	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/M/L)		58	58
	Sound Power Level dB (A) (H/M/L)		/	/
	Dimension (L/W/H) (mm)		926x378x685	926x378x685
	Dimension of Package (L/W/H)(mm)		994x428x750	994x428x750
	Net Weight /Gross Weight (kg)		52/57	52/57
	Refrigerant Charge (kg)		R22 /1.8	R22 /1.8
Connection Pipe	Length (m)		5	5
	Gas additional charge(g/m)		/	/
	Outer Diameter	Liquid Pipe (mm)	¢6	¢6
		Gas Pipe (mm)	¢12	¢12
	Max Distance	Height (m)	5	5
		Length (m)	10	10
Loading Quantity	20' Container	Interior Dimensions L*W*H：5898*2352*2393，Door Opening W*H：2343*2280	64	
	40' Container	Interior Dimensions L*W*H：12032*2350*2390，Door Opening W*H：2343*2280	138	
	40' High Cube Container	Interior Dimensions L*W*H：12032*2350*2697，Door Opening W*H：2338*2585	153	

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

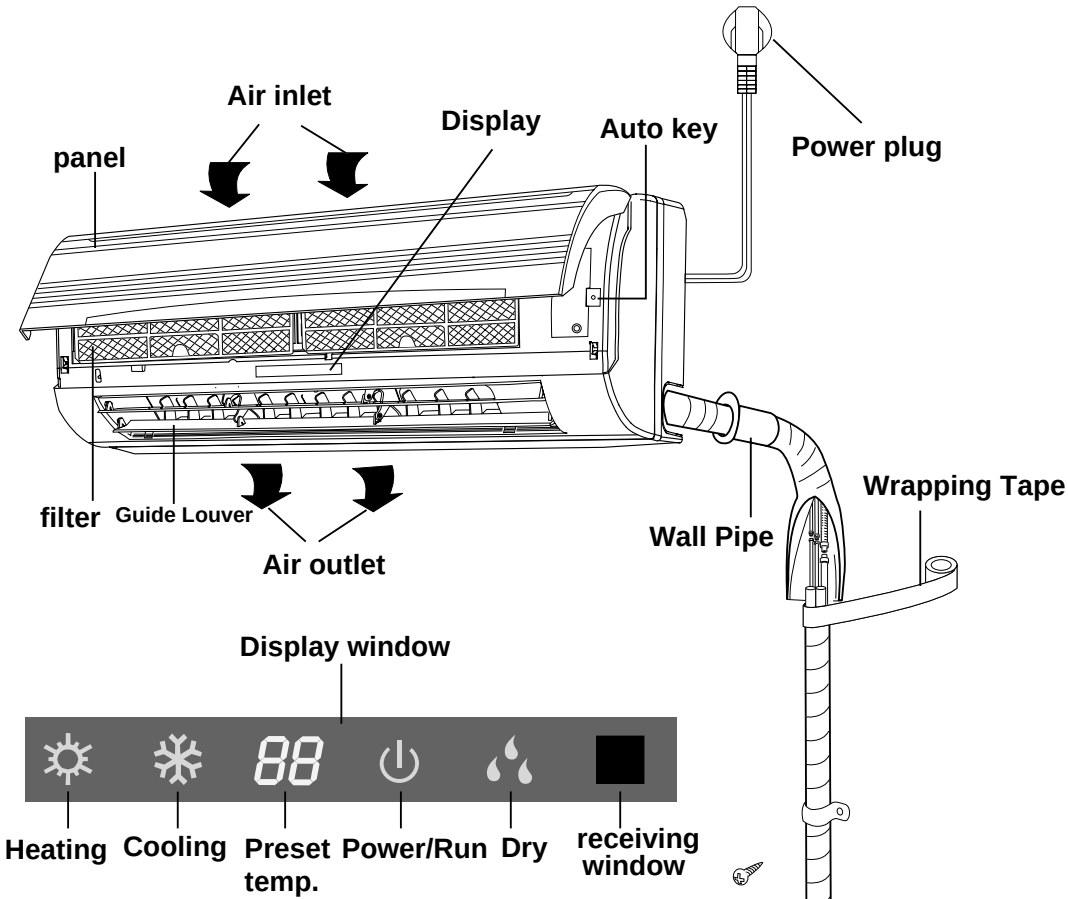
Model		GWHN24B5NK3FA		GWHN24B5NK1NA	
Function		COOLING	HEATING	COOLING	HEATING
Rated Voltage		220-240V~		220-240V~	
Rated Frequency		50HZ		50HZ	
Total Capacity (W/Btu/h)		6000W	6600W	24000Btu	26400Btu
Power Input (W)		2180	2200	2500	2600
Rated Input (W)		3050	3080	3750	3900
Rated Current (A)		13.3	13.4	16.3	17
Air Flow Volume (m^3/h) (H/M/L)**		920		900	
Dehumidifying Volume (l/h)		4		3	
EER / C.O.P (W/W)		2.75/3		2.8/3	
Energy Class		-		-	
Indoor unit	Model of Indoor Unit	GWHN24B5NK3FA/I		GWHN24B5NK1NA/I	
	Fan Motor Speed (r/min) (H/M/L)	1350/1250/1150		1350/1250/1150	
	Output of Fan Motor (w)	20		20	
	Input of Heater (w)	-		-	
	Fan Motor Capacitor (uF)	1		1	
	Fan Motor RLA(A)	0.1		0.09	
	Fan Type-Piece	Cross flow fan – 1		Cross flow fan – 1	
	Diameter-Length (mm)	φ96 X 840		φ98 X 797	
	Evaporator	Aluminum fin-copper tube		Aluminum fin-copper tube	
	Pipe Diameter (mm)	¢7		¢7	
	Row-Fin Gap(mm)	2-1.6		2x19.05	
	Coil length (l) x height (H) x coil width (L)	785x195x25.4		785x490x22	
	Swing Motor Model	MP24GA		MP24GA	
	Output of Swing Motor (W)	2		2.4	
	Fuse (A)	PCB 3.15A Transformer 0.2A		PCB 3.15A Transformer 0.2A	
	Sound Pressure Level dB (A) (H/M/L)	48/46/44		48/45/42	
	Sound Power Level dB (A) (H/M/L)***	58/56/54		/	
	Dimension (L/W/H) (mm)	1020x310x228		1020x310x228	
	Dimension of Package (L/W/H) (mm)	1078x325x390		1078x325x390	
	Net Weight /Gross Weight (kg)	13/17		13/17	

Outdoor unit	Model of Outdoor Unit		GWHN24B5NK3FA/O	GWHN24B5NK1NA/O
	Compressor Model		5VS245EAA21	C-R191H5C
	Compressor Type		rotary compressor	rotary compressor
	L.R.A. (A)		45.5	62
	Compressor RLA(A)		9.5	10.4
	Compressor Power Input(W)		2125	2285
	Overload Protector		-	/
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (℃)		-7℃≤T≤43℃	-7~43
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		¢9.52	¢9.52
	Rows-Fin Gap(mm)		2-1.6	2-25.4
	Coil length (l) x height (H) x coil width (L)		731x813x44	920x635x44
	Fan Motor Speed (rpm)		780	780/750/720
	Output of Fan Motor (W)		60	68
	Fan Motor RLA(A)		0.3	4
	Fan Motor Capacitor (uF)		3	1.5
	Air Flow Volume of Outdoor Unit		/	3000
	Fan Type-Piece		Axial fan –1	Axial fan –1）
	Fan Diameter (mm)		460	460
	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)		3.8	2.5
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2	0.6
	Sound Pressure Level dB (A) (H/M/L)		57 / 55 / 53	58
	Sound Power Level dB (A) (H/M/L)		67 / 65 / 63	-
	Dimension (L/W/H) (mm)		950x412x840	950x412X700
	Dimension of Package (L/W/H)(mm)		1100x450x905	1100x450X755
	Net Weight /Gross Weight (kg)		72/77	59/64
	Refrigerant Charge (kg)		R410A/2.2	R22/1.8
Connection Pipe	Length (m)		4	5
	Gas additional charge(g/m)		/	/
	Outer Diameter	Liquid Pipe (mm)	¢9.52	¢9.52
		Gas Pipe (mm)	¢16	¢16
	Max Distance	Height (m)	5	5
		Length (m)	10	5
Loading Quantity	20' Container	Interior Dimensions L*W*H：5898*2352*2393，Door Opening W*H：2343*2280	50	56
	40' Container	Interior Dimensions L*W*H：12032*2350*2390，Door Opening W*H：2343*2280	100	116
	40' High Cube Container	Interior Dimensions L*W*H：12032*2350*2697，Door Opening W*H：2338*2585	116	138

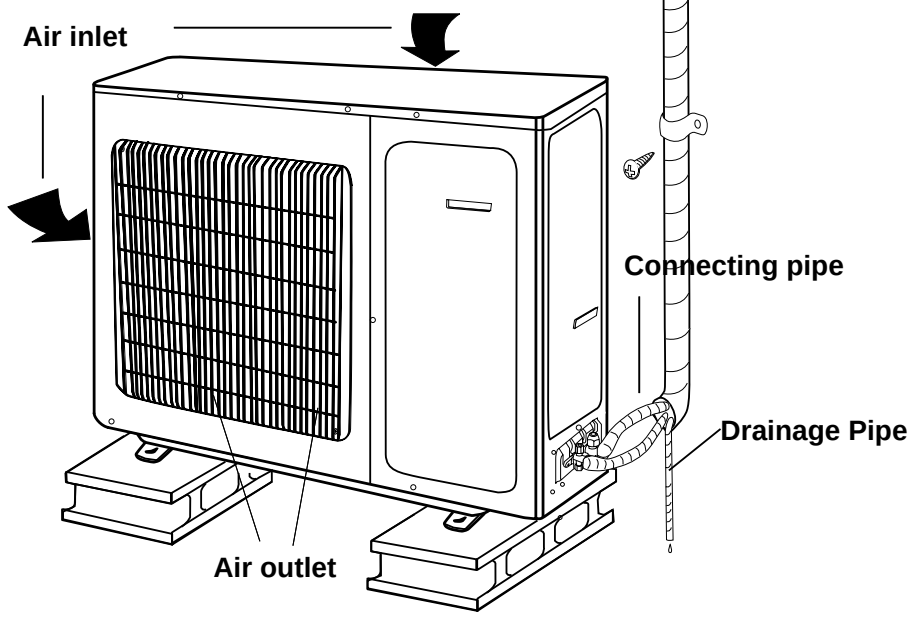
The above data is subject to change without notice. Please refer to the nameplate of the unit.

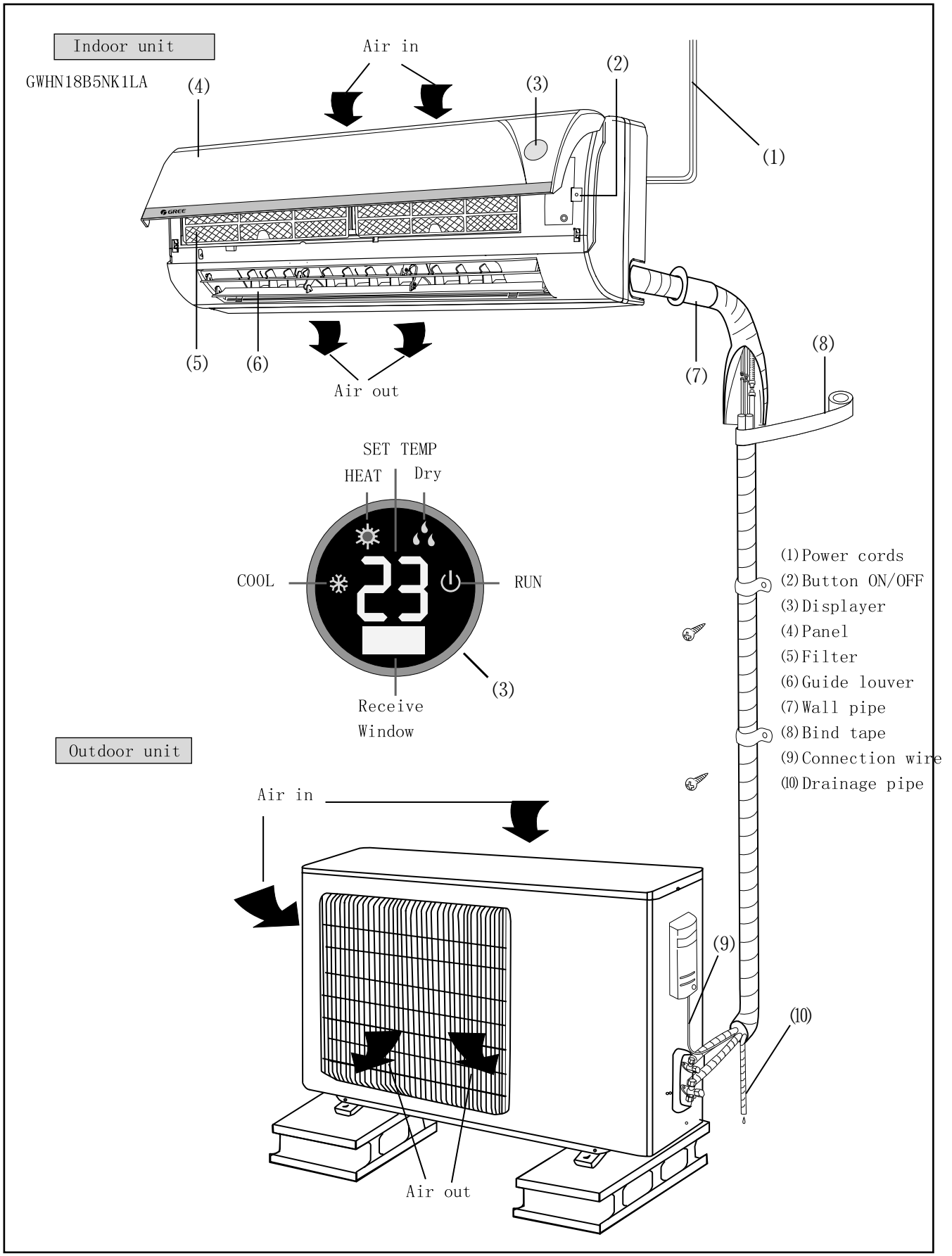
3 Component Name

Indoor Unit



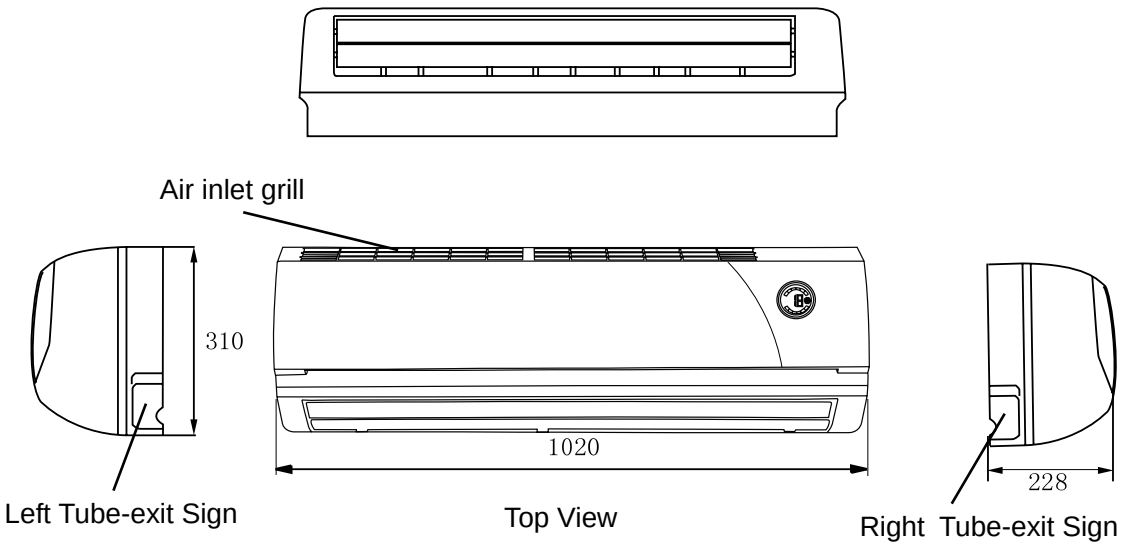
Outdoor Unit

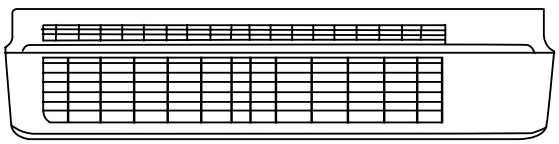



Indoor unit
GWHN18B5NK1LA
Air in
(4)
(3)
(2)
(1)
(5)
(6)
Air out
(7)
(8)
SET TEMP
HEAT
Dry
COOL
RUN
23
(3)
Receive
Window
(1)Power cords
(2)Button ON/OFF
(3)Displayer
(4)Panel
(5)Filter
(6)Guide louver
(7)Wall pipe
(8)Bind tape
(9)Connection wire
(10)Drainage pipe
Outdoor unit
Air in
(9)
(10)
Air out

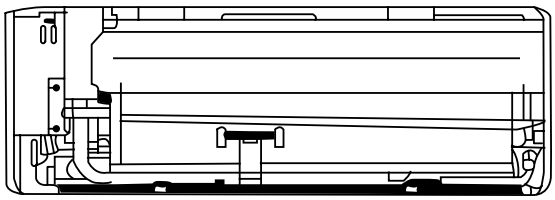
4 Overall and Installing Dimension

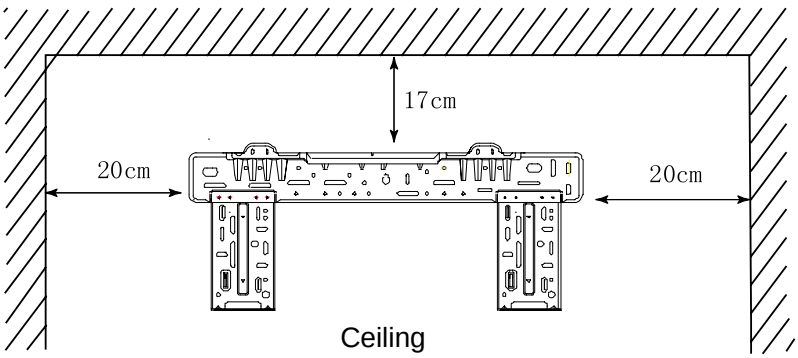
4. 1 Overall and Installing Dimension of Indoor Unit

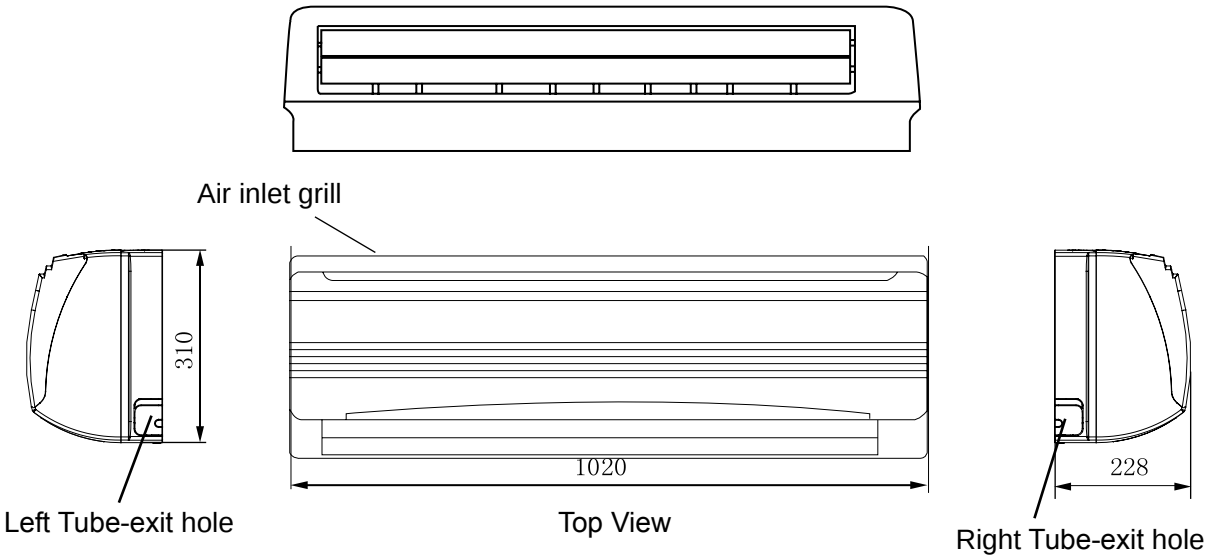


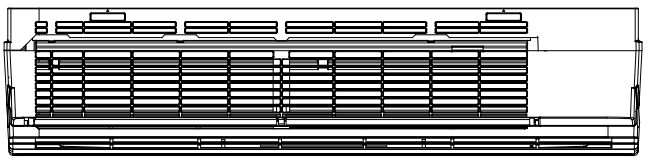


Rear View



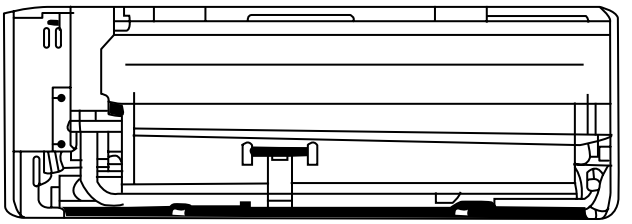


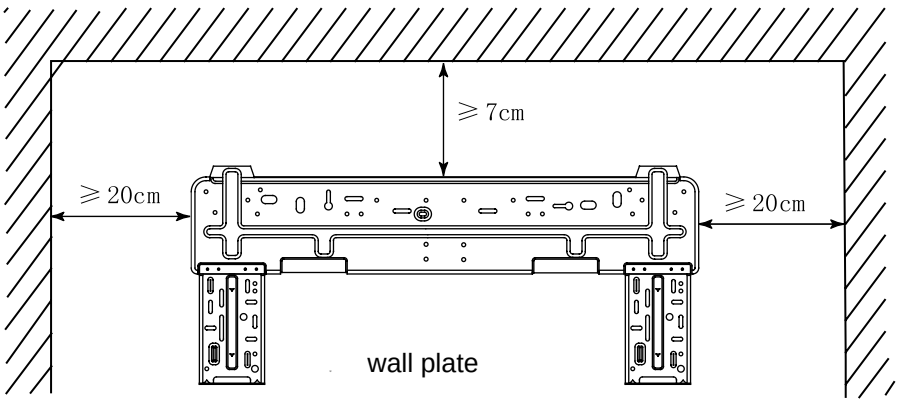


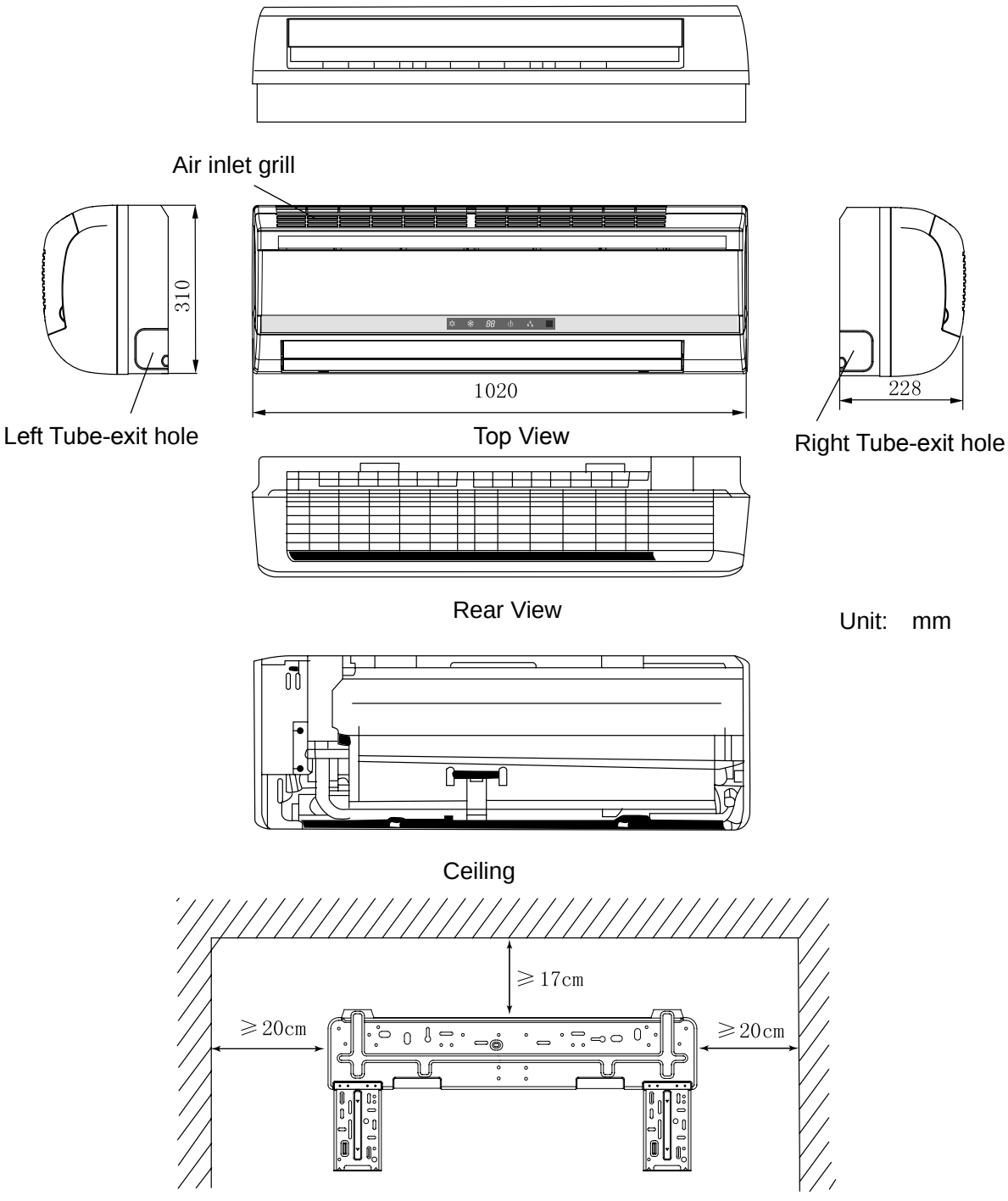


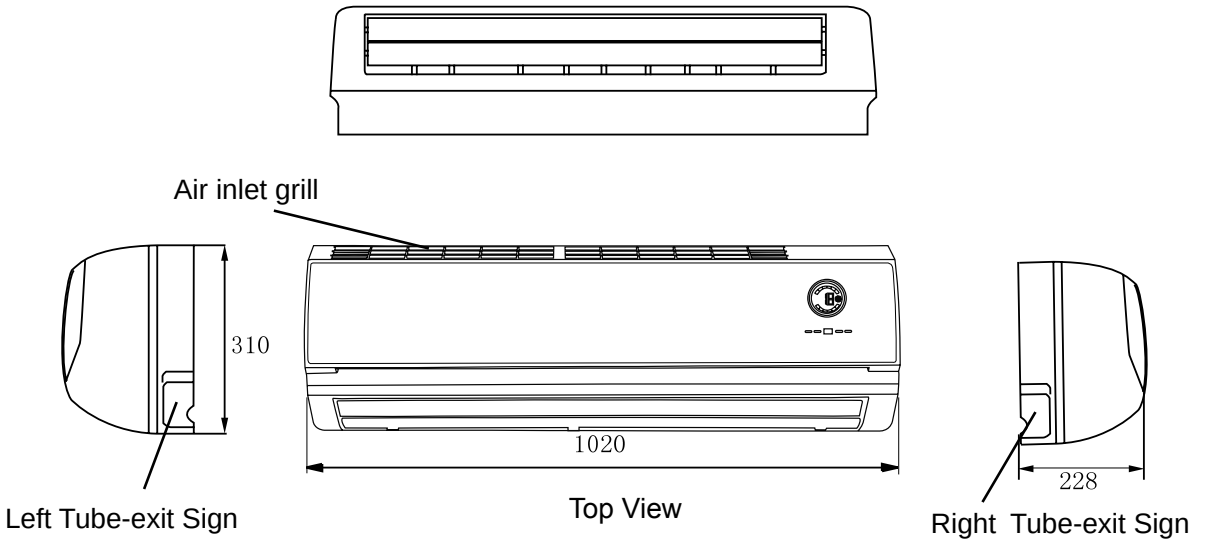
Rear View

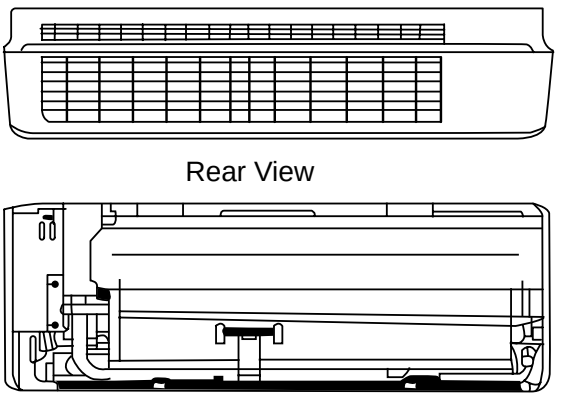
Unit: mm



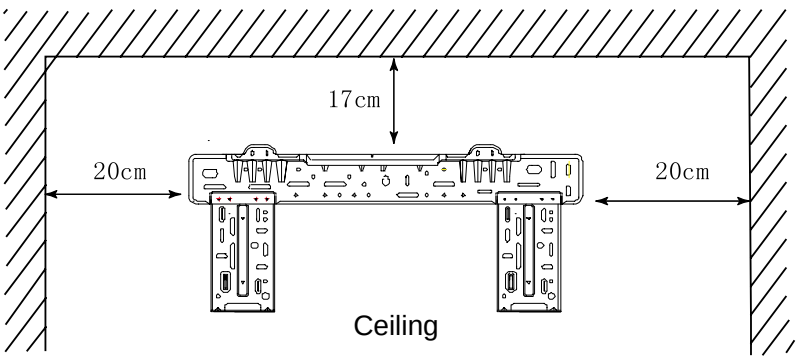



Air inlet grill
310
1020
228
Left Tube-exit hole
Top View
Right Tube-exit hole
Rear View
Unit: mm
Ceiling
≥ 17cm
≥ 20cm
≥ 20cm

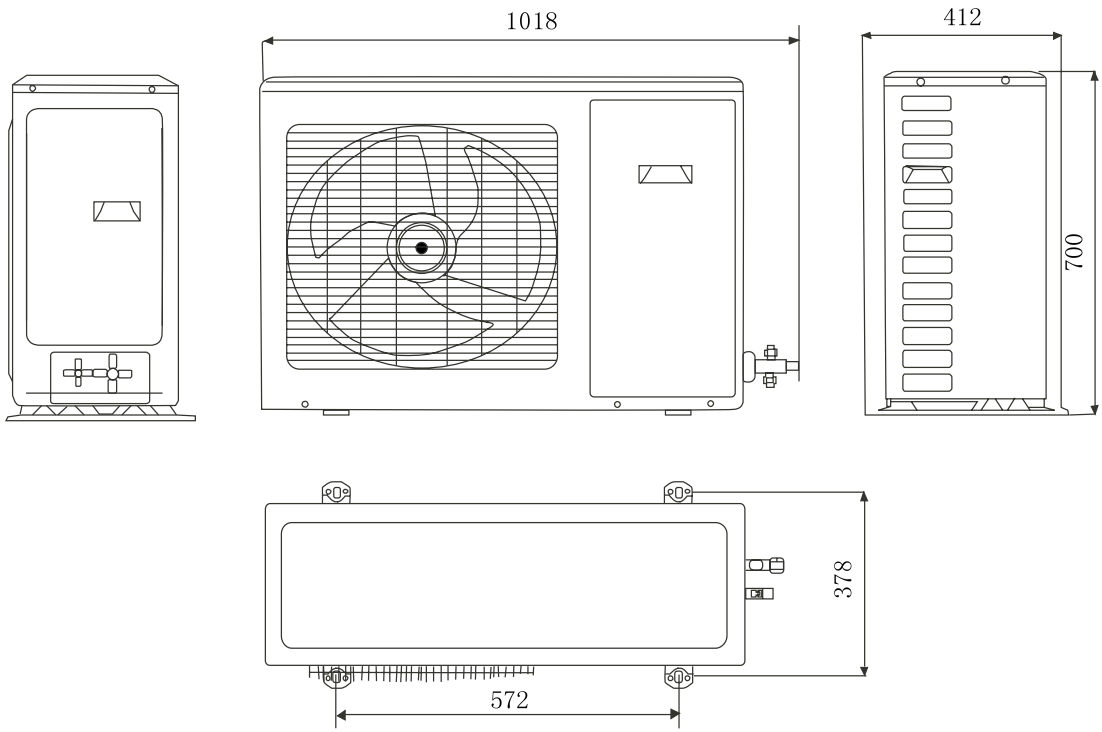

Air inlet grill
310
1020
228
Left Tube-exit Sign
Top View
Right Tube-exit Sign



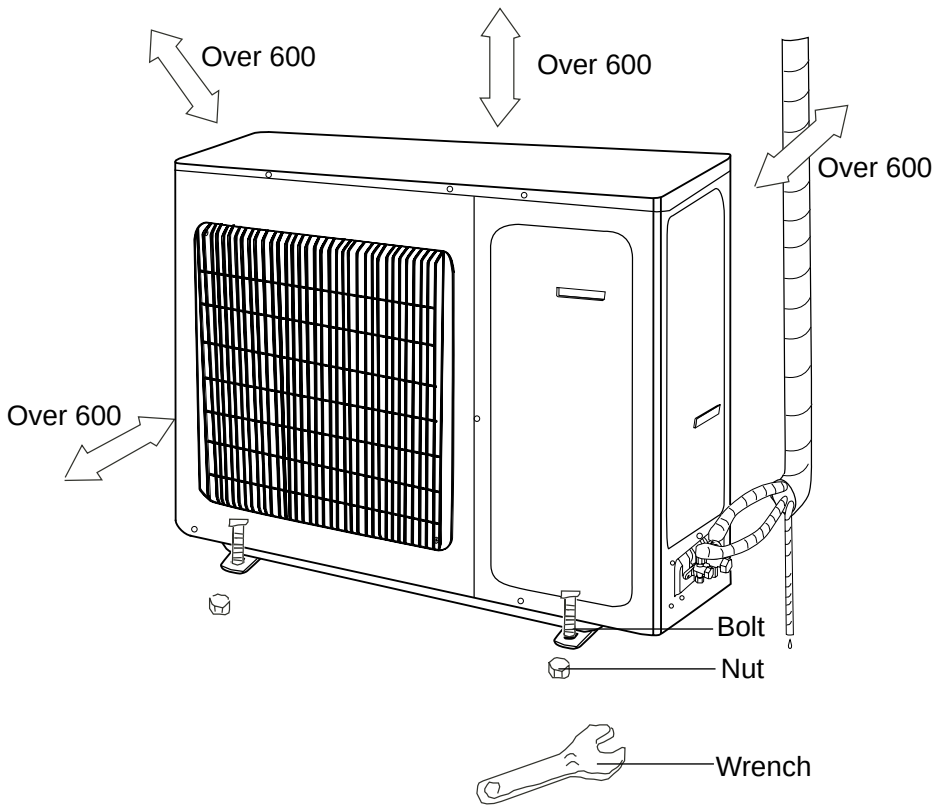
Rear View

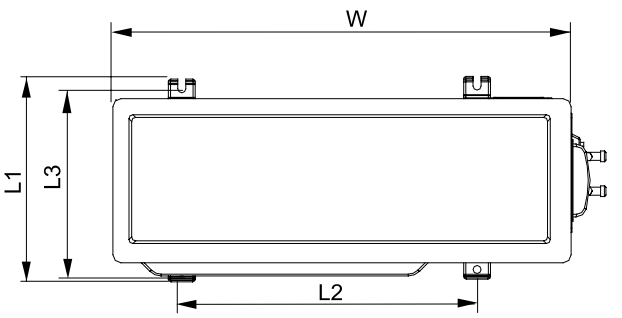

17cm
20cm
20cm
Ceiling

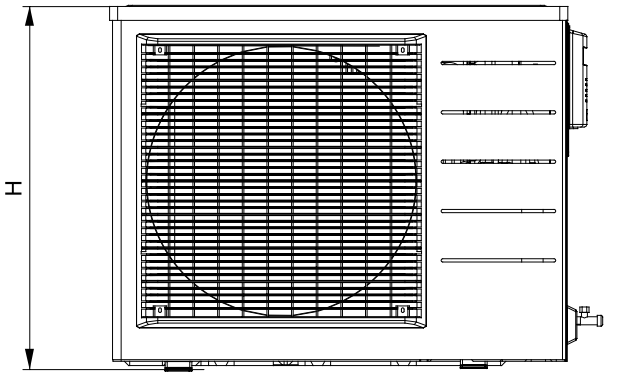
4.2 Overall and Installing Dimension of Outdoor Unit

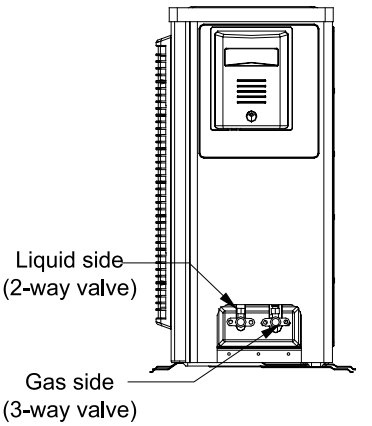


Unit: mm

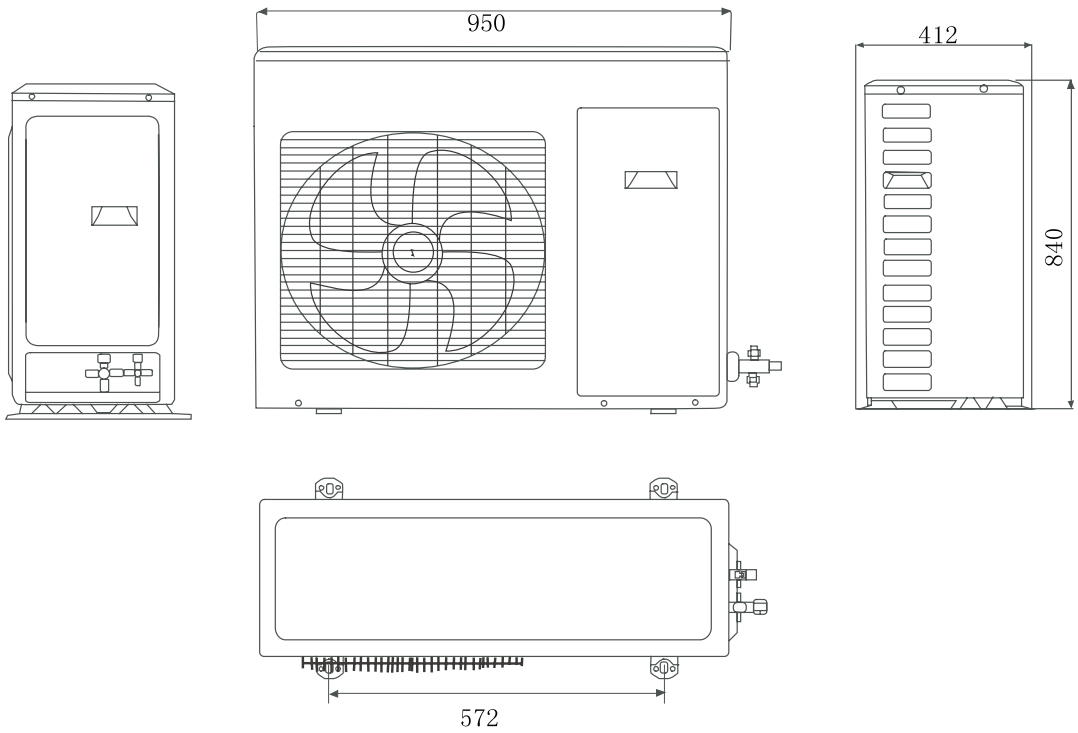




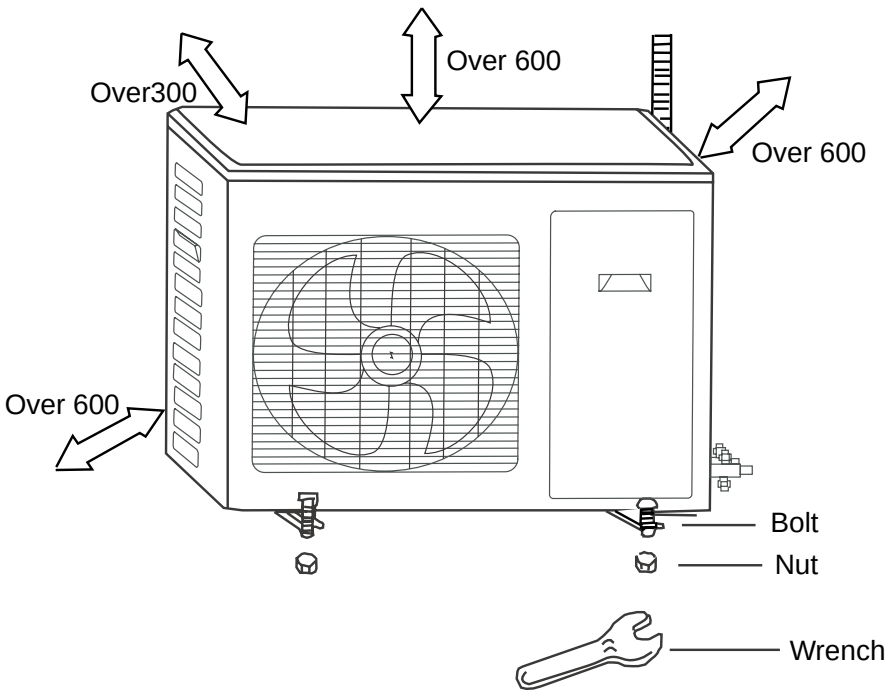




DIM / MODEL	unit	18k Btu Series
W	mm	846
H	mm	685
L1	mm	378
L2	mm	550
L3	mm	342

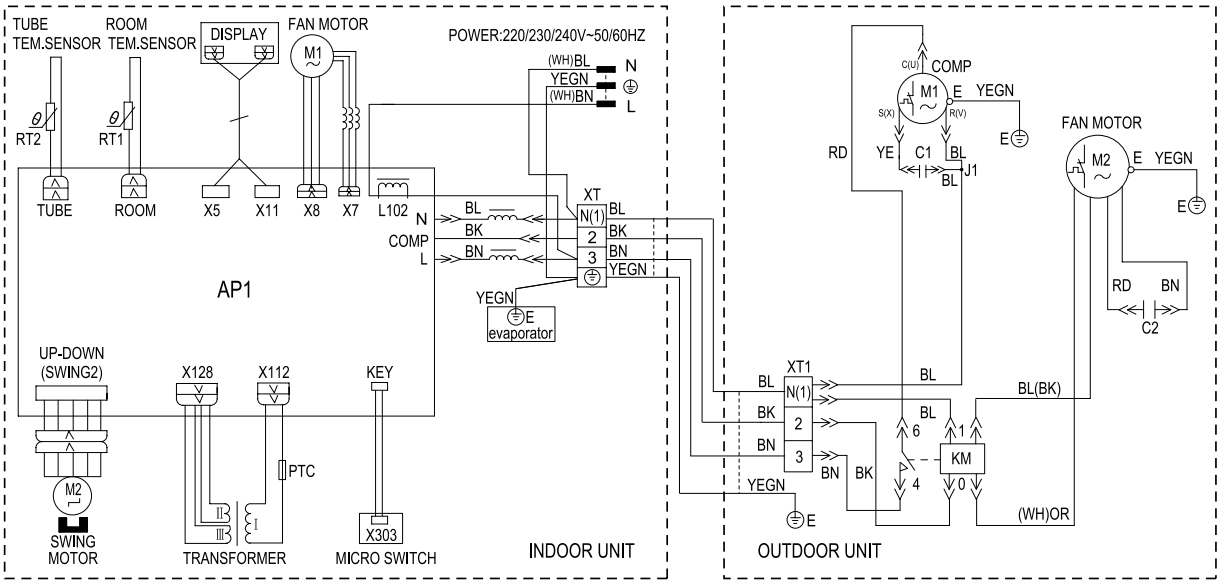

950
412
840
572

Unit: mm

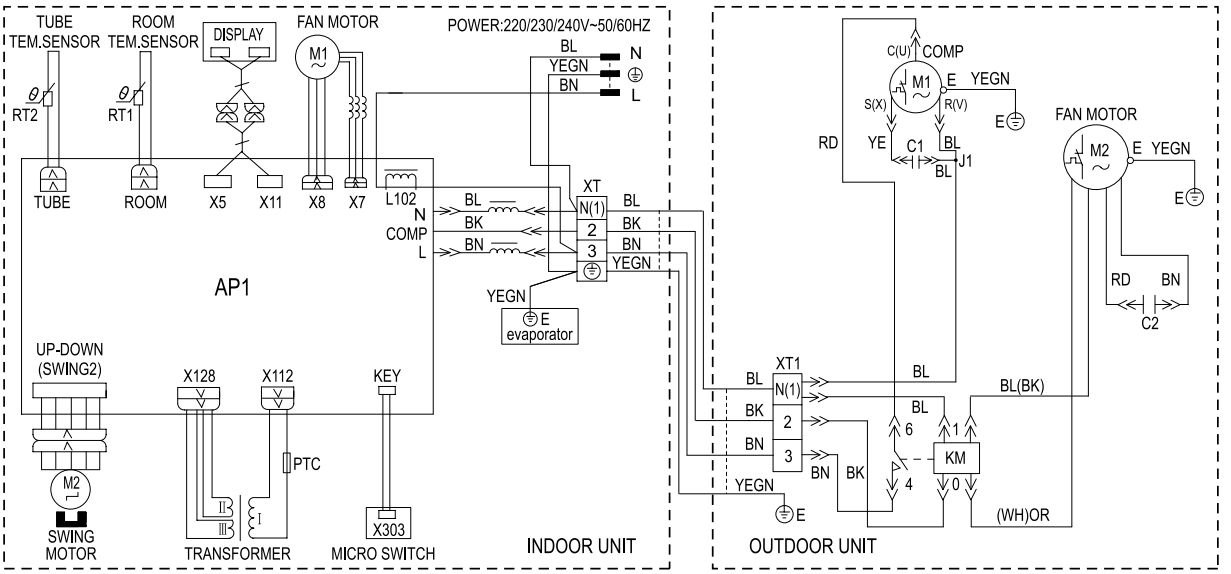

Over 600
Over300
Over 600
Over 600
Bolt
Nut
Wrench

5 Electrical Diagram

GWCN24B5NE1IB

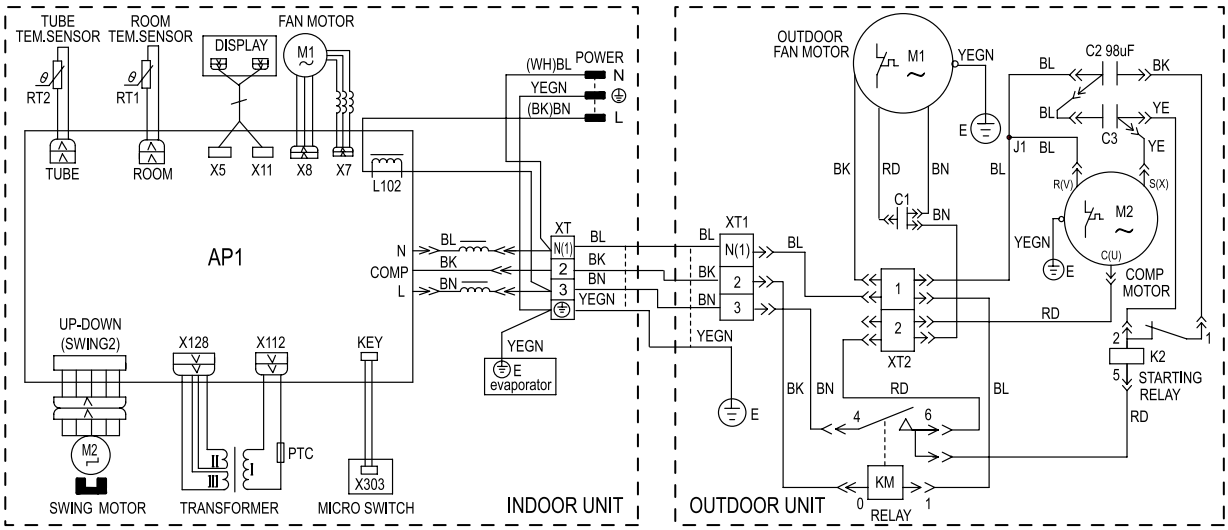


GWCN24B5NE1NB

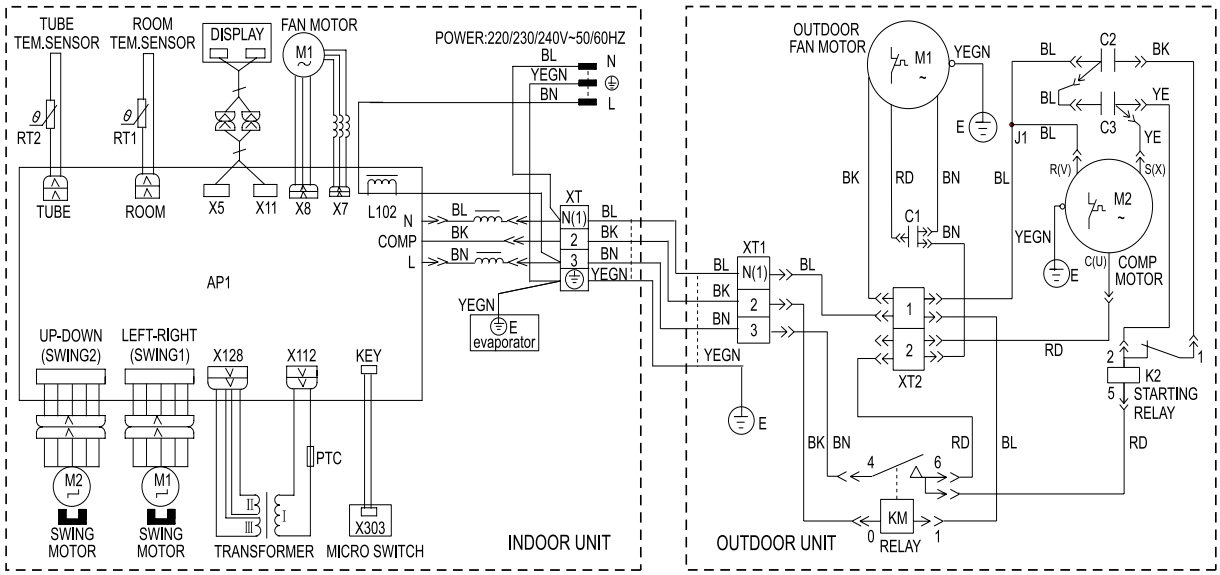


In case of any change in the Electrical Diagram shown above, please follow the drawing on cabinet.

GWCN18B5TD1LA GWCN24B5TD1LA

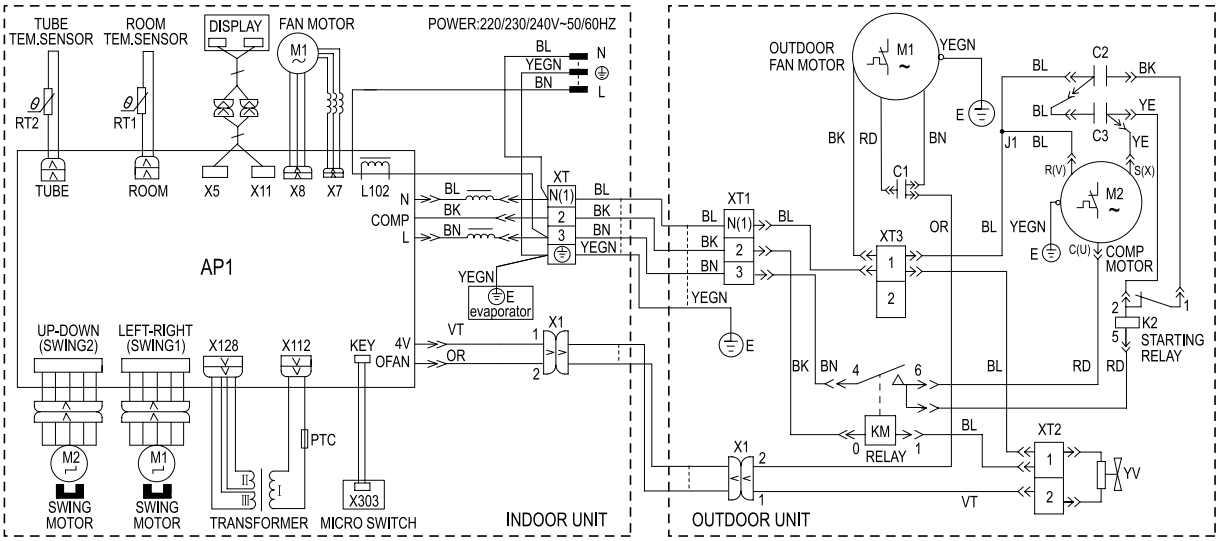


GWCN18B5TD1CA GWCN24B5TD1CA

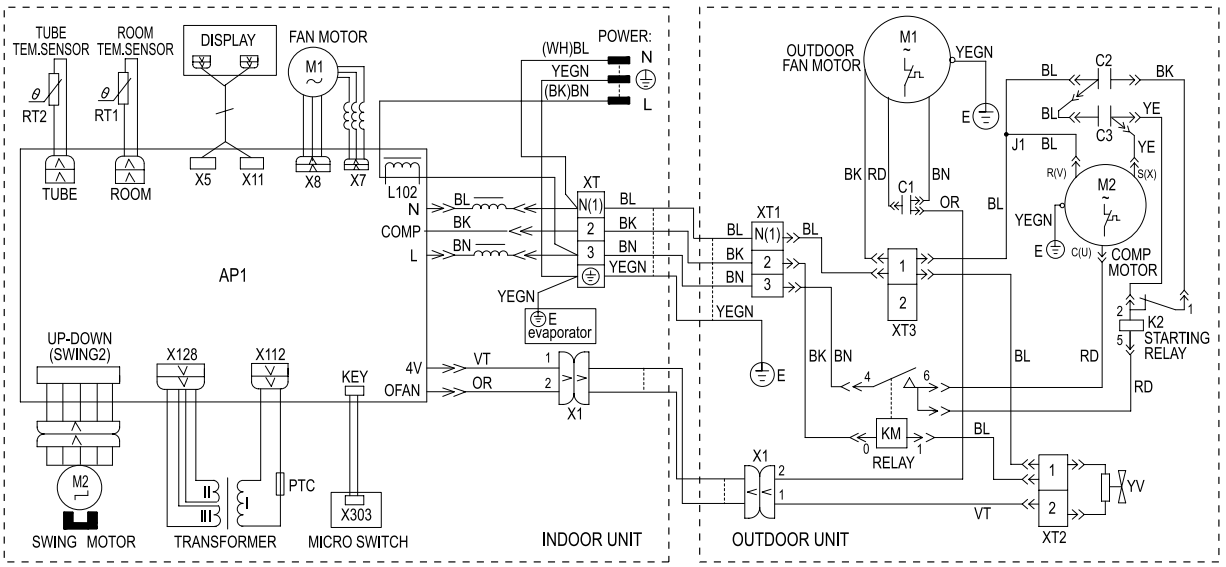


In case of any change in the Electrical Diagram shown above, please follow the drawing on cabinet.

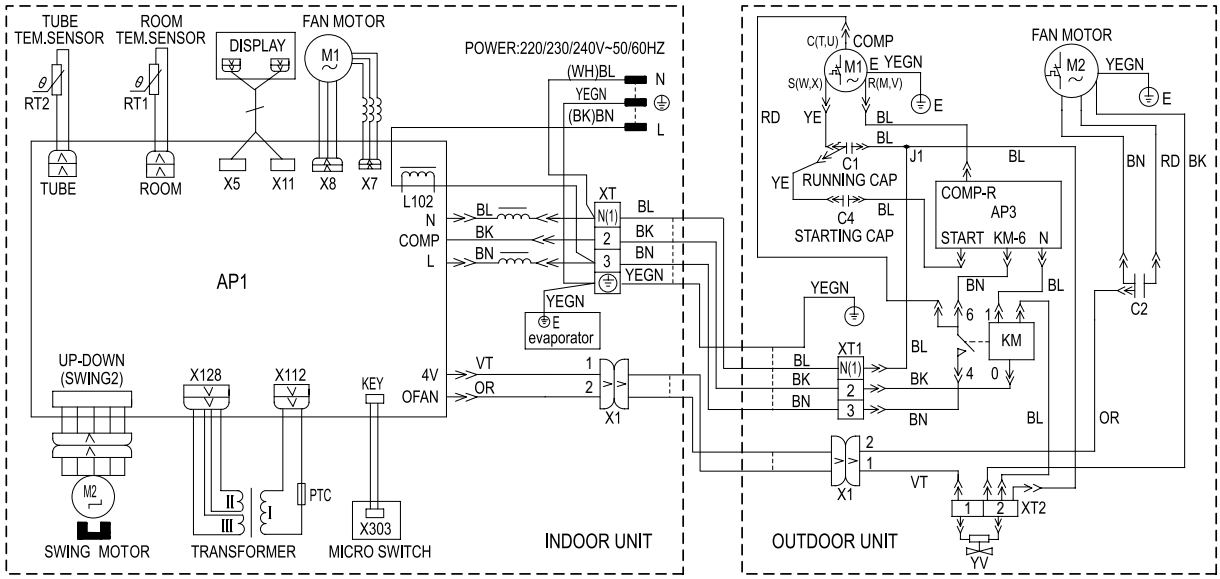
GWHN18B5TD1CA GWHN24B5TD1CA



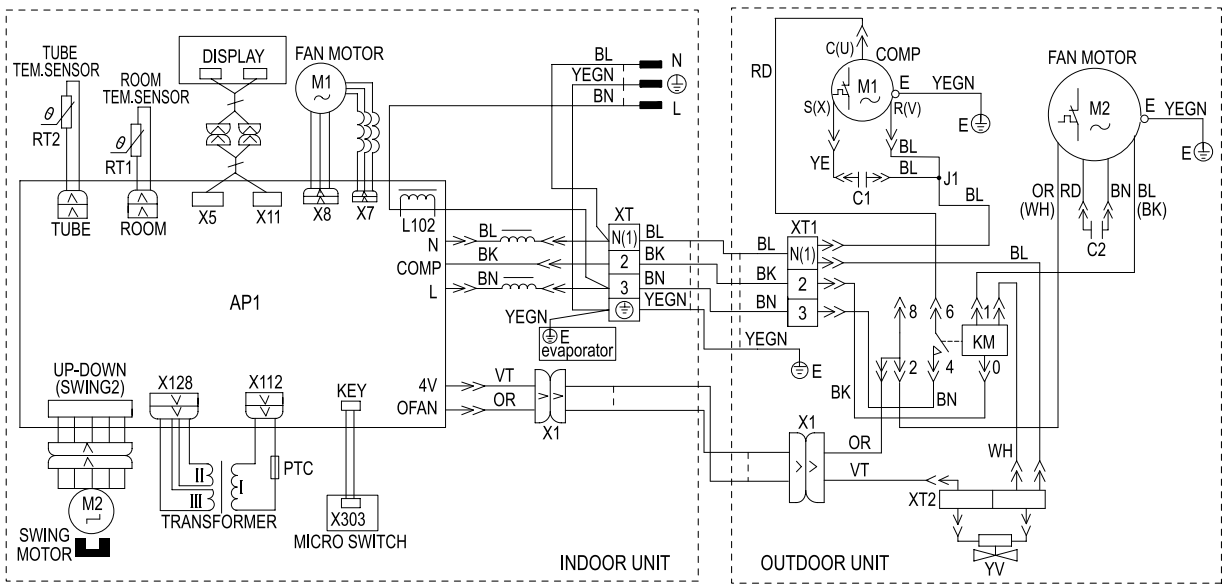
GWHN18B5TD1LA GWHN24B5TD1LA



GWHN24B5NK3FA



GWHN24B5NK1NA



6 Remote Controller Function Manual and Operating Instructions

6.1 Remote Controller Function Manual

This function manual is for: GWHN24B5NK3FA

6.1.1 Temperature Parameters

◆Indoor preset temperature (T_{preset})

◆Indoor ambient temperature ($T_{amb.}$)

6.1.2 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. Once started, the compressor will not be stopped within 6 minutes with the change of room temperature.

6.1.2.1 Cooling Mode

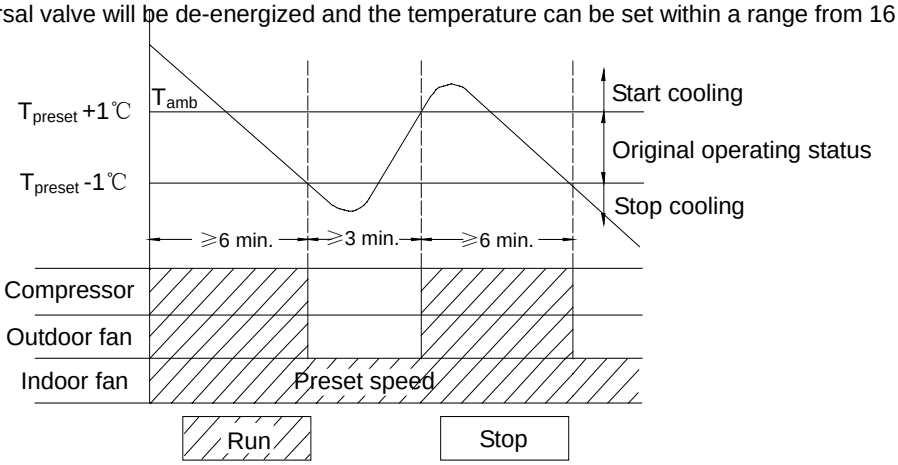
6.1.2.1.1 Working Conditions and Process of Cooling

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

When $T_{amb.} \leq T_{preset}$ -1℃, the compressor and the outdoor fan will be stopped, the indoor fan will run at preset speed.

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

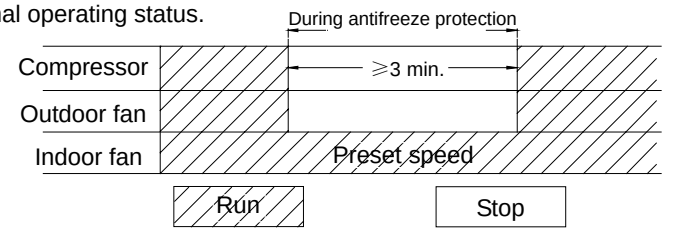
➢ Under this mode, the reversal valve will be de-energized and the temperature can be set within a range from 16 to 30℃.



6.1.2.1.2 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 preset speed. When antifreeze protection is released and the compressor has stopped for 3 minutes, the unit will resume its original operating status.



◆ Overcurrent Protection

If it is detected that the system amperage exceeds the specified value(about 22 A), the main unit will enter into the status that only the fan is running. After 3 minutes and overcurrent protection is released, the main unit will resume its original operating status .If it is 3 times continuously detected overcurrent protection (if the compressor has run over 5 mins continuously, the times of protection will be cleared),the main unit will be stopped on standby,the nixietube will display error code "E5",the power indicator will blink and it is need to restart the unit by the wireless remote control.

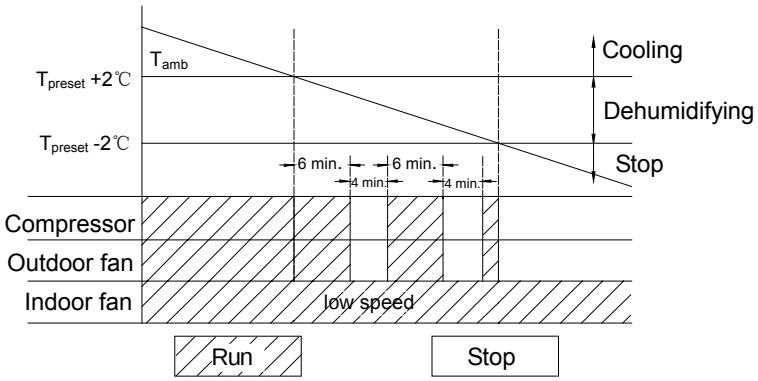
6.1.2.2 Dehumidifying Mode

6.1.2.2.1 Working Conditions and Process of Dehumidifying

When $T_{amb.} > T_{preset}$ +2℃, the unit will run under dehumidifying and cooling mode, in which case the compressor and outdoor fan will start to run, the indoor fan will run at low speed.

When T_{preset} -2℃≤$T_{amb.}$≤T_{preset} +2℃, the unit will run under dehumidifying mode, in which case the indoor fan will keep run at low speed, while the compressor and outdoor fan will run 6 minutes and stop 4 minutes so repeated in cycle.
When $T_{amb.}$< T_{preset}-2℃, the compressor and outdoor fan will be stopped and the indoor fan will run at low speed.

- Under this mode, the reversal valve will be de-energized and the temperature can be set within a range from 16 to 30℃.

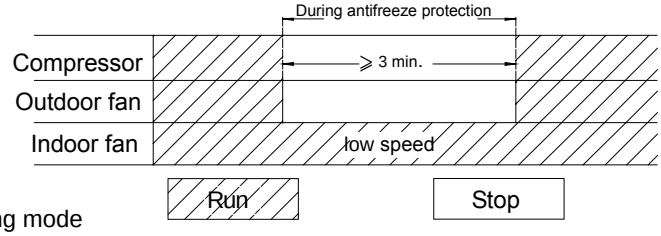


6.1.2.2.2 Protection

◆ **Antifreeze Protection**

Under dehumidifying and cooling mode, 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 released and the compressor has stopped for 3 minutes, the complete unit will resume its original operating status.

Upon meeting "run 6 mins and stop 4 mins" dehumidify 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 released and the compressor has stopped for 4 minutes, the complete unit will resume its original operating status.



◆ Overcurrent Protection is the same as that under cooling mode

6.1.2.3 Heating Mode

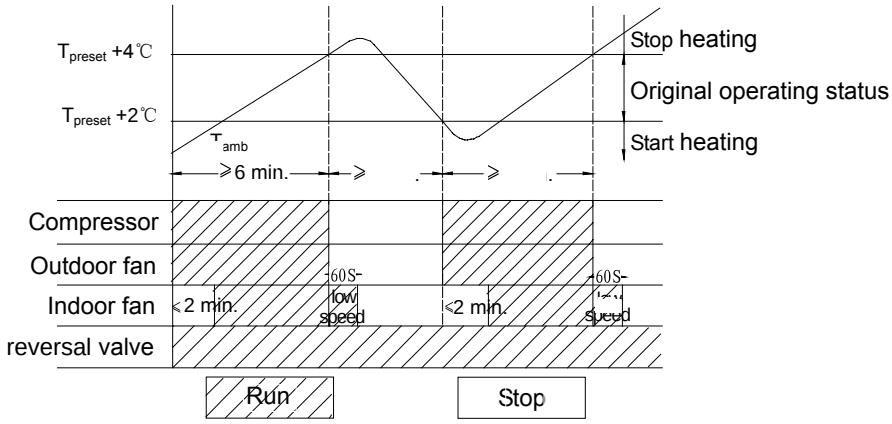
6.1.2.3.1 Working Conditions and Process of Heating

When $T_{amb.}$≤T_{preset} +2℃, the unit will run under heating mode, in which case the reversal valve, compressor and outdoor fan will be simultaneously started, and the indoor fan will be started after 2 minutes the latest.

If $T_{amb.}$≥T_{preset} +4℃, the compressor and outdoor fan will be stopped, the reversal valve is still energized and the indoor fan will run at low speed for 60 seconds before it is stopped.

When T_{preset} +2℃<$T_{amb.}$< T_{preset} +4℃, the unit will maintain its original operating status.

- Under this mode,the temperature can be set within a range from 16 to 30℃.



6.1.2.3.2 Protection

◆ **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,or mode switching, the reversal valve will be stopped after 2-minute lag.

◆ Overcurrent Protection the same as that under cooling mode(only indoor fan will run at low speed for 60 seconds before it is stopped).

6.1.2.3.3 Defrosting Conditions and Process

When the condenser is detected to have frost, the system will enter into defrosting status, in which case the compressor will continue to run, the outdoor fan, 4-way valve and indoor fan will be stopped and the heating indicator will blink. When it is detected that the frost in condenser is completely eliminated, the outdoor fan, 4-way valve and indoor fan will be started , the compressor will keep running, and the heating indicator will stop blinking.

- The first defrost after energization will last 10 minutes. Later, the defrost time can be adjusted according to the quantity of frost. Defrost takes longer if more frost (Max. 12 minutes) and takes shorter if less frost (Min. 7.0 minutes). The system will exit defrost mode upon completion of defrosting.

6.1.2.4 Fan mode

Under FAN mode, only the indoor fan runs at preset speed.

- Under this mode,the temperature can be set within a range from 16 to 30℃.

6.1.2.5 Auto Mode

Under this mode, the system will automatically select its run mode (cool, dehumidify, heat or fan) with the change of ambient temperature. When switch from auto heating mode to other mode, the reversal valve will be stopped after 2-minute lag.

- For protection function, same as under cooling ,dehumidifying,fan and heating mode.There is 30s delay for mode switch.

6.1.3 Other Control

6.1.3.1 Automatic Control of Fan Speed

In this mode, according to the change of ambient temperature, indoor fan will select High,Middle and Low fan speed auto -matically with an interval of changing at leasts 3mins and 30 s among the wind speeds(first enter into Auto fan speed or mode switch,there is no 3mins and 30 s delay).

6.1.3.2 Detection of Sensor Malfunction

In any mode(except defrosting), it will detect malfunctions of indoor sensors.If it detect that the room temp. sensor is short or open circuit, the nixietube will display "F1"; if it detect that the tube temp. sensor is short or open circuit, the nixietube will display "F2".

At "On" status, if above malfunction occurs, the indoor unit will be stopped at once and will display malfunction; at "Off" status if above malfunction occurs, it don't display malfunction, if receving any remote controller signal, the unit will not act and will keep stop, here if receving "turn on" signal, it will display malfunction but will not start. After the compressor has stopped for 3 mins and the malfunction has been eliminated, it will resume running.

6.1.3.3 Timer Function

6.1.3.3.1 AUTO ON

The system will continue to run if AUTO ON is set when the system is under ON status. If AUTO ON is set when the system is under OFF status, the system will start to run under preset mode upon the time for auto start.

6.1.3.3.2 AUTO OFF

If AUTO OFF is set when the system is under OFF status, the system will maintain its standby status. If AUTO OFF is set when the system is under ON status, the system will be stopped upon the tIme for auto stop.

6.1.3.3.3 Time Change

When the timer is set, you can turn on/off the unit by remote control, and also can reset the time, the system will run under the status preset lastly.

When the system is under ON status; set AUTO ON and AUTO OFF at the same time, the system will maintain its original operating status till the time for AUTO OFF,and then will stop. When the system is under OFF status;set AUTO ON and AUTO OFF at the same time, the system will maintain stop till the time for AUTO ON, and then will start to run. After that, upon the time for AUTO ON everyday, the unit will start to run under preset mode and will stop upon the time for AUTO OFF. If the time set for AUTO ON is the same as the time set for AUTO OFF;the system will accept AUTO OFF.

6.1.3.4 Display

6.1.3.4.1 Display of Run Icon ,Dual 8 and Mode Icon

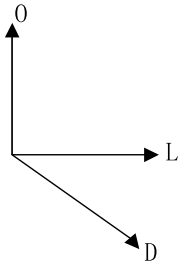
After de-energized and re-energized, all icons will display about 3 mins. When the unit is turned on and there is remote control signal,it will display the preset temperature in dynamic for 10s and then will display the ambient temperature.When the unit is turned on by the remote controller,Run Icon will light and the preset mode icon will be displayed at the same time. Under the sleep mode or turn the light off, only the RUN Icon is bright(when the light is on, it can be turned off by press the swing key twice continuously within 1s; when the light is off, it can be turned on by press the swing key twice continuously within 1s). When the unit is switched off, all icons except the power indicator are black. There is a dual colour indicator on the running display section, after energized, if the unit is standby, the run indicator will be red, and if the unit is running, the run indicator will be green.

6.1.3.4.2 Malfunction Display

When the PG motor is locked, the nixie tube will display "H6 " and the Run indicator will blink at the same time.When the room temp. sensor is short/ open circuit, the nixie tube will display "F1" and the cooling indicator will blink at the same time. When the tube temp. sensor is short/ open circuit, the nixie tube will display "F2" and the cooling indicator will blink at the same time.When outdoor unit defrost,the nixie tube will display "H1" and the heating indicator will blink. If there are several malfunctions occur at the same time, they will be displayed in cycle.

6.1.3.5 Swing Up/Down Motor Control

Once energized,the up and down swing motor will rotate the guide louver to position 0 to close the air outlet . If swing function is not set after the unit is started,the guide louver will be turned to L position when cooling and will be turned to D position when heating. If swing function is set after the unit start,the guide louver will swing between L and D position.when the unit is stop,the guide louver will be closed.If swing function is set, the guide louver will stay at current position when the indoor fan is stopped.When the indoor fan is restarted to run,the guide louver will resume to swing.



6.1.3.6 Buzzer

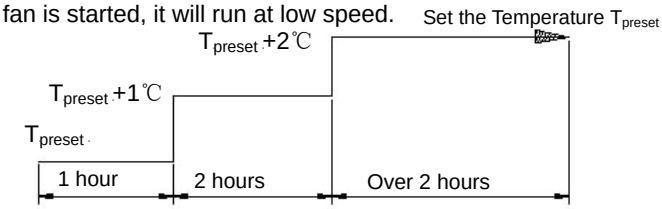
When the unit is energized, or receives remote control signal, the buzzer will give out a beep.

6.1.3.7 Auto key

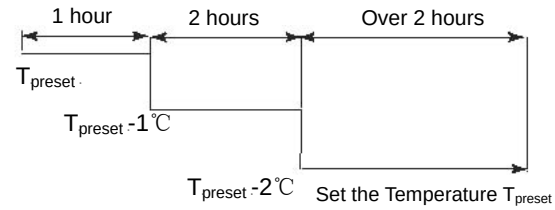
If one press of this key, the unit will run under AUTO mode and the indoor fan will run at AUTO SPEED. The swing motor is started when the indoor fan is working. Press this key again to stop the unit.

6.1.3.8 Sleep Function

Setting SLEEP function under COOL or DEHUMIDIFY mode, the preset temperature will automatically rise by 1℃ after 1 hour and rise by another 1℃ after 2 hours. Preset temperature will rise by 2℃ in total within 2 hours. After that, the unit will run at this preset temperature.If the indoor fan is started, it will run at low speed.



Setting SLEEP function under HEAT mode, the preset temperature will automatically decrease by 1℃ after 1hour and decrease by another 1℃ after 2 hours. Preset temperature will decrease by 2 ℃ in total within 2 hours. After that, the unit will run at this preset temperature. If the indoor fan is started, it will run at low speed.



If set sleep function under fan or auto mode, the set temperature will remain unchanged.

6.1.3.9 Indoor motor locked protection

1) When motor locked protection act, all loads stop (indoor fan, outer fan, compress etc, 4-way valve stop after 2 mins lag).
2) Once the motor locked protection act, it is need to power off the unit and then power on to resume to work.
3) When motor locked protection act, both the remote control receiving and pressing is available, but does not for specific control.
4) When motor locked protection act, if the unit is under "on" status, the malfunction indicator will display: the dual 8 nixie tube will display "H6" and the running indicator will blink.

6.1.3.10 Memory

Memory contents: Mode, Swing, light,Set temp, Set fan speed.

After de-energized, and re-energized, the unit will start to run with the memory function automatically. The system, if under TIMER ON/OFF status, will not memorize the timer after de-energized and the preset timer will be cancelled automatically,in which case the user has to reset the timer function. Sleep function also will be cancelled upon de-energized.

6.2 Remote Controller Function Manual

This function manual is for: GWCN18B5TD1CA GWHN18B5TD1CA GWCN24B5TD1CA GWHN24B5TD1CA

6.2.1 Temperature Parameters

◆Indoor preset temperature (T_{preset})

◆Indoor ambient temperature ($T_{amb.}$)

6.2.2 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. Once started, the compressor will not be stopped within 6 minutes with the change of room temperature.

6.2.2.1 Cooling Mode

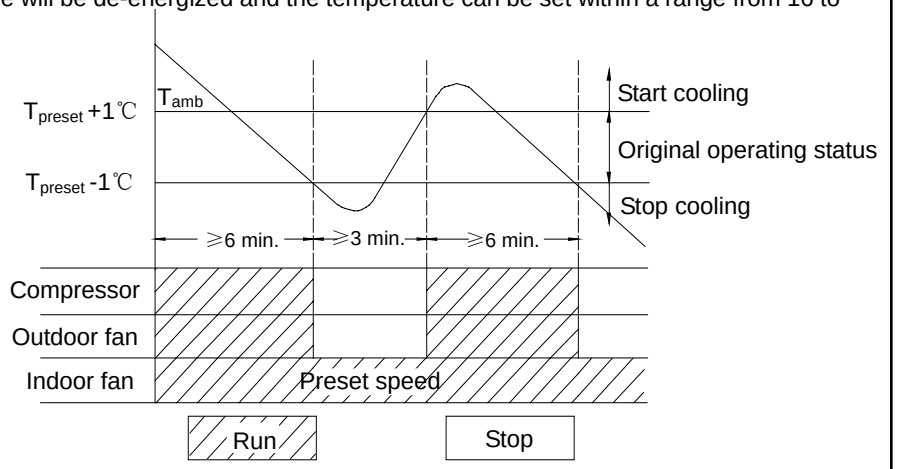
6.2.2.1.1 Working Conditions and Process of Cooling

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

When $T_{amb.} \leq T_{preset}$ -1℃, the compressor and the outdoor fan will be stopped, the indoor fan will run at preset speed.

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

➢ Under this mode, the reversal valve will be de-energized and the temperature can be set within a range from 16 to 30℃.



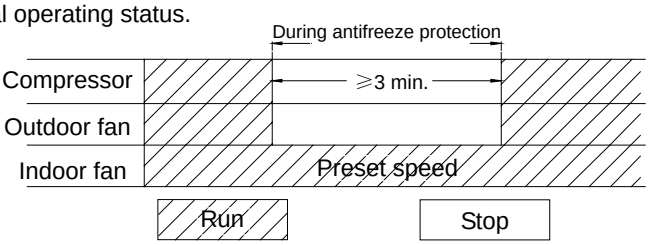
6.2.2.1.2 Display

The display window will display run icon, cooling icon and the set temperature.

6.2.2.1.3 Pretection

◆ **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 preset speed. When antifreeze protection is released and the compressor has stopped for 3 minutes, the unit will resume its original operating status.



◆ Overcurrent Protection

If it is detected that the system amperage exceeds the specified value(about 22 A), the main unit will enter into the status that only the fan is running. After 3 minutes and overcurrent protection is released, the main unit will resume its original operating status .If it is 3 times continuously detected overcurrent protection (if the compressor has run over 5 mins continuously, the times of protection will be cleared),the main unit will be stopped on standby,the nixietube will display error code "E5",the power indicator will blink and it is need to restart the unit by the wireless remote control.

◆ **Indoor fan motor locked protection**

1) When motor locked protection occurs, all loads stop (indoor fan, outer fan, compress etc, 4-way valve stop after 2 mins lag).
2) Once the motor locked protection occurs, it is need to power off the unit and then power on to resume to work.
3) When motor locked protection occurs, both the remote control receiving and pressing is available, but does not for specific control.
4) When motor locked protection occurs, if the unit is under "on" status, the malfunction indicator will display:if the unit is under "off" status, the malfunction indicator will be turned off.The specific display method method: the dual 8 nixietube will display "H6" and the running indicator will blink.

Note: It will be treated as locked while the motor rotating speed is too low.

6.2.2.2 Dehumidifying Mode

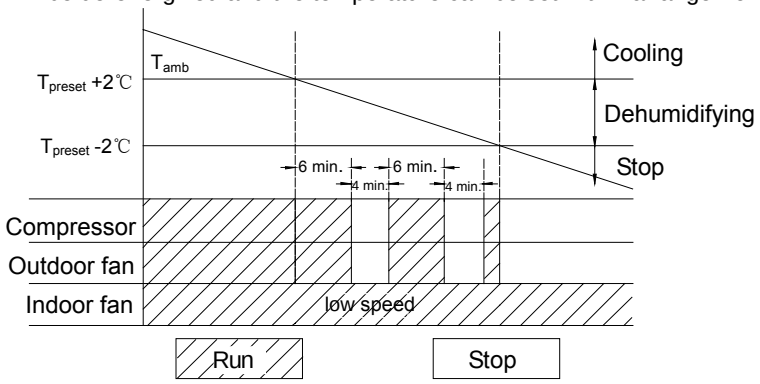
6.2.2.2.1 Working Conditions and Process of Dehumidifying

When $T_{amb.} > T_{preset} +2℃$, the unit will run under dehumidifying and cooling mode, in which case the compressor and outdoor fan will start to run, the indoor fan will run at low speed.

When $T_{preset} -2℃ \leq T_{amb.} \leq T_{preset} +2℃$, the unit will run under dehumidifying mode, in which case the indoor fan will keep run at low speed, while the compressor and outdoor fan will run 6 minutes and stop 4 minutes so repeated in cycle.

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

➢ Under this mode, the reversal valve will be de-energized and the temperature can be set within a range from 16 to 30℃.



6.2.2.2.2 Display

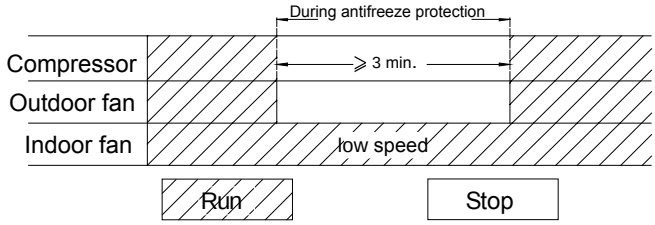
The display window will display run icon, dehumidifying icon and the set temperature.

6.2.2.2.3 Protection

◆ **Antifreeze Protection**

Under dehumidifying and cooling mode, 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 released and the compressor has stopped for 3 minutes, the complete unit will resume its original operating status.

Upon meeting "run 6 mins and stop 4 mins" dehumidify 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 released and the compressor has stopped for 4 minutes, the complete unit will resume its original operating status.



◆ Overcurrent Protection and Indoor motor locked protection are the same as that under cooling mode

6.2.2.3 Heating Mode(cooling only unit hasn't this mode)

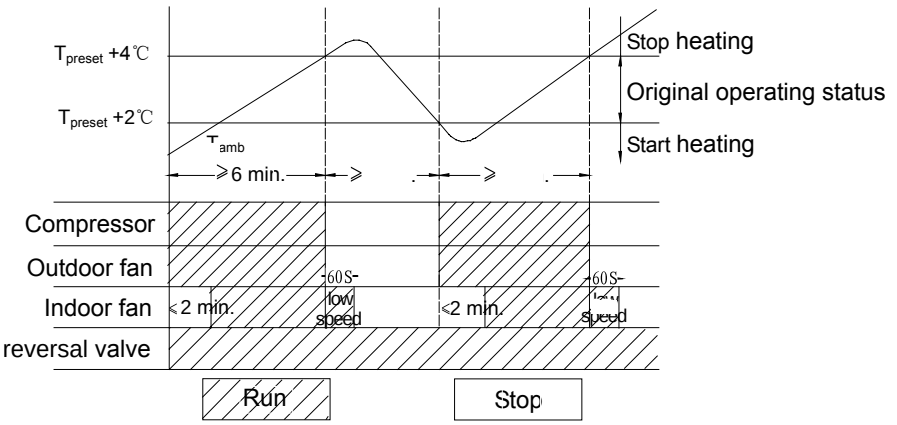
6.2.2.3.1 Working Conditions and Process of Heating

When $T_{amb.} \leq T_{preset} +2℃$, the unit will run under heating mode, in which case the reversal valve, compressor and outdoor fan will be simultaneously started, and the indoor fan will be started after 2 minutes the latest.

If $T_{amb.} \geq T_{preset} +4℃$, the compressor and outdoor fan will be stopped, the reversal valve is still energized and the indoor fan will run at low speed for 60 seconds before it is stopped.

When $T_{preset} +2℃ < T_{amb.} < T_{preset} +4℃$, the unit will maintain its original operating status.

➢ Under this mode,the temperature can be set within a range from 16 to 30℃.



6.2.2.3.2 Display

The display window will display run icon, heating icon and the set temperature.

6.2.2.3.3 Protection

◆ **High Temp. Protection**

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

◆**Noise Silencing Protection**

If the unit is stopped by pressing ON/OFF,or mode switching, the reversal valve will be stopped after 2-minute lag.

◆ Overcurrent Protection is the same as that under cooling mode(only indoor fan will run at low speed for 60 seconds before it is stopped).

◆**Indoor fan motor locked protection is the same as that under cooling mode.**

6.2.2.3.4 Working Conditions and Process of Defrosting

Upon meet the defrosting condition, the system will enter into defrosting status, in which case the compressor will continue to run, the outdoor fan, 4-way valve and indoor fan will be stopped and the running indicator will blink. When it is detected that the frost in condenser is completely eliminated, the outdoor fan, 4-way valve and indoor fan will be started , the compressor will keep running, and the running indicator will stop blinking.

- The first defrost after energization will last 10 minutes. Later, the defrost time can be adjusted according to the quantity of frost. Defrost takes longer if more frost (Max. 12 minutes) and takes shorter if less frost (Min. 4.0 minutes). The system will exit defrost mode upon completion of defrosting.

6.2.2.4 Fan mode

Under FAN mode, only the indoor fan runs at preset speed, the compressor,outdoor fan and 4-way valve are stop. Under this mode,the temperature can be set within a range from 16 to 30℃.

- **Display : The display window will display run icon and the set temperature.**
- **Indoor fan motor locked protection is the same as that under cooling mode.**

6.2.2.5 Auto Mode

Under this mode, the system will automatically select its run mode (cool, dehumidify, heat or fan) with the change of ambient temperature.Cooling only unit has no heating function.

- **Display : The display window will display run icon, current mode icon and the set temperature.**
- For protection function, same as under cooling,dehumidifying,fan and heating mode.There is 30s delay for mode switch.

6.2.3.Timer Function

6.2.3.1 AUTO ON

To set AUTO ON function when the unit is under STOP status, after reaching the time of AUTO ON, the controller will run under preset mode. The time interval for AUTO ON is 0.5h and can be set within 0.5 - 24 hours.

6.2.3.2 AUTO OFF

You can set AUTO OFF function when the unit is under ON status. After reaching the time of AUTO OFF, the system will be switched off. The time interval for AUTO OFF is 0.5h, and can be set within 0.5 - 24 hours.

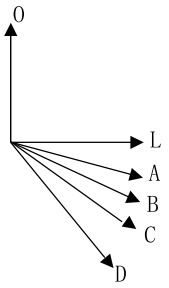
6.2.3.3 Automatic Control of Fan Speed

In this mode, according to the change of ambient temperature, indoor fan will select High,Middle and Low fan speed auto -matically with an interval of changing at leasts 3mins among the wind speeds(first enter into Auto fan speed or mode switch,there is no 3mins and 30 s delay).

6.2.3.4 Swing motor control

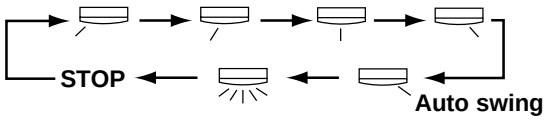
6.2.3.4.1 Swing UP/DOWN

Once energized,the up and down swing motor will rotate the guide louver anticlockwise to position 0 to close the air outlet .If swing function is not set after the unit is started,the guide louver will be turned to D position clockwise under heating status,and will be turned to L level position clockwise under other status. If swing function is set after the unit is started,the guide louver will swing between L and D position.There are 7 swing status for the guide louver : position L; A ; B; C; D; stop between L and D. when the unit is stop,the guide louver will be closed to 0 position. Only when the swing function is set and the indoor fan is running, the the guide louver will swing.



6.2.3.4.2 Swing Left/Right

Once energized,the left / right swing motor will drive the left / right guide louver to middle position.If swing left / right function is not set after the unit is started,the guide louver will stay at middle position.If there is swing angle set by remote controller, the L/R guide louver will stay at the set angle. When the L/R swing function is set, There are 7 swing status for the guide louver : position left, hypo-left, middle, hypo-right, right, swing left and right and stop.(see below Fig.)



If set L/ R swing function when the unit start to run, the L/ R swing motor will drive the L/ R guide louver to swing left and right. When cancel L/ R swing function , the guide louver will stay at current position. When the unit is switched off, the guide louver will stay at original position. Only when the L/ R swing function is set and the indoor fan is running, the the guide louver will swing.

6.2.3.5 Buzzer

When the controller is energized or receives remote control signal or the auto key be pressed, the buzzer will give out a beep.

6.2.3.6 Auto key

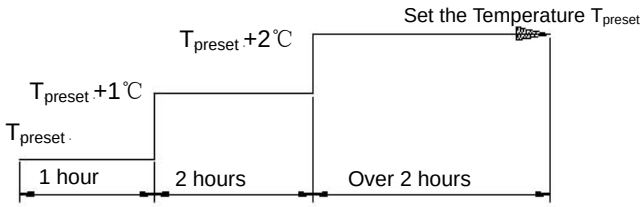
If one press of this key, the unit will run under AUTO mode and the indoor fan will run at AUTO SPEED.The swing motor is started when the indoor fan is working. Press this key again to stop the unit.

6.2.3.7 Indicator

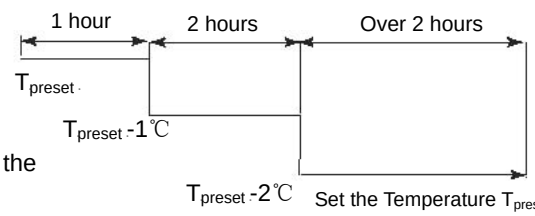
There is a dual colour indicator on the running display section, after energized, if the unit is standby, the run indicator will be red, and if the unit is running, the run indicator will be green. When defrosting, the heating indicator will blink.

6.2.3.8 Sleep Function

Setting SLEEP function under COOL or DEHUMIDIFY mode, the preset temperature will automatically rise by 1℃ after 1 hour and rise by another 1℃ after 2 hours. Preset temperature will rise by 2℃ in total within 2 hours. After that, the unit will run at this preset temperature.

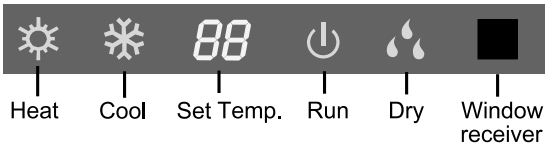


Setting SLEEP function under HEAT mode, the preset temperature will automatically decrease by 1℃ after 1hour and decrease by another 1 after 2 hours. Preset temperature will decrease by 2 ℃ in total within 2 hours. After that, the unit will run at this preset temperature.



If set sleep function under fan or auto mode, the set temperature will remain unchanged.

6.2.3.9 Display



6.2.3.9.1 Display of Run Icon and Mode Icon

Once eneygized, all icon will flash in dynamic. When the unit is turned on by remote controller, the RUN icon and the preset Mode icon are bright at the same time. If the light key is turned off, only the RUN Icon is bright. When the unit is switched off, all icons except the power indicator are black.

6.2.3.9.2 Display of Dual 8 nixietube

When turn on the unit,the Dual 8 nixietube will display preset temperature(range from 16 to 30℃).When PG motor locked protection occurs, the nixietube will display "H6".

6.2.3.10 Memory

Memory contents: Mode, UP/DOWN Swing, light,Set temp, Set fan speed.

After de-energized, and re-energized, the unit will start to run with the memory function automatically. The system, if the last remote control signal do not set timer function, will memorize the last remote control signal and run according to it. If the last remote control signal has set timer function, the system is de-energized before the set time,when re-energized, the system will memorize the timer function, the set time will recalculate. If the last remote control signal has set timer function and the system is de-energized after the set time, when re-energized, the system will memorize the running status before de-energized.

6.3 Remote Controller Function Manual

This function manual is for: GWHN18B5TD1LA GWCN24B5NE1IB GWCN24B5NE1NB GWHN24B5NK1NA GWHN24B5NK1NA GWCN18B5TD1LA GWHN18B5NK1NA

6.3.1 Temperature Parameters

◆Indoor preset temperature (T_{preset})

◆Indoor ambient temperature ($T_{amb.}$)

6.3.2 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. Once started, the compressor will not be stopped within 6 minutes with the change of room temperature.

6.3.2.1 Cooling Mode

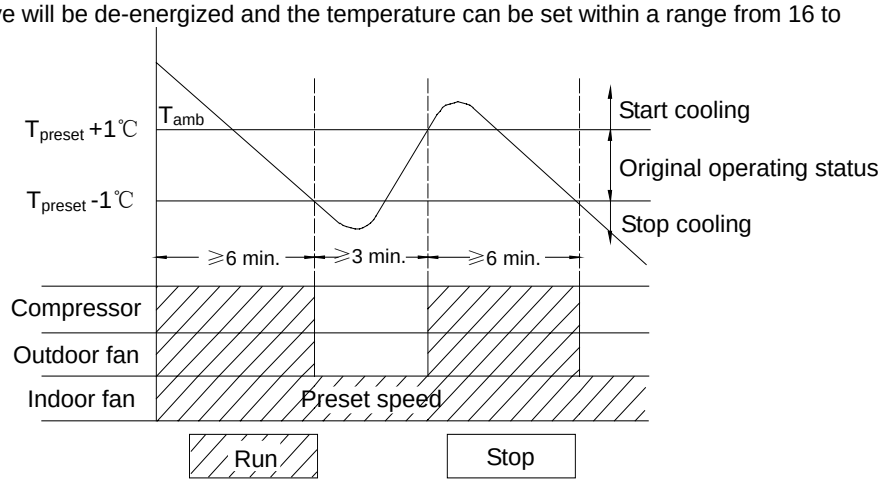
6.3.2.1.1 Working Conditions and Process of Cooling

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

When $T_{amb.} \leq T_{preset}$ -1℃, the compressor and the outdoor fan will be stopped, the indoor fan will run at preset speed.

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

➢ Under this mode, the reversal valve will be de-energized and the temperature can be set within a range from 16 to 30℃.



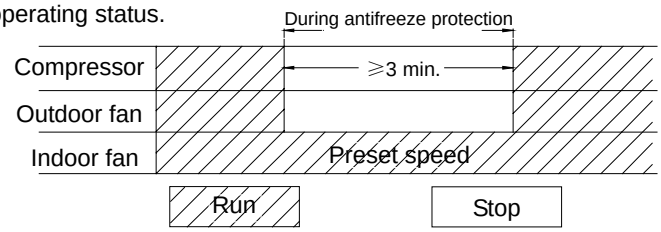
6.3.2.1.2 Display

The display window will display run icon, cooling icon and the set temperature.

6.3.2.1.3 Pretection

◆ **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 preset speed. When antifreeze protection is released and the compressor has stopped for 3 minutes, the unit will resume its original operating status.



◆ Overcurrent Protection

If it is detected that the system amperage exceeds the specified value(about 22 A), the main unit will enter into the status that only the fan is running. After 3 minutes and overcurrent protection is released, the main unit will resume its original operating status .If it is 3 times continuously detected overcurrent protection (if the compressor has run over 5 mins continuously, the times of protection will be cleared),the main unit will be stopped on standby,the nixietube will display error code "E5",the power indicator will blink and it is need to restart the unit by the wireless remote control.

6.3.2.2 Dehumidifying Mode

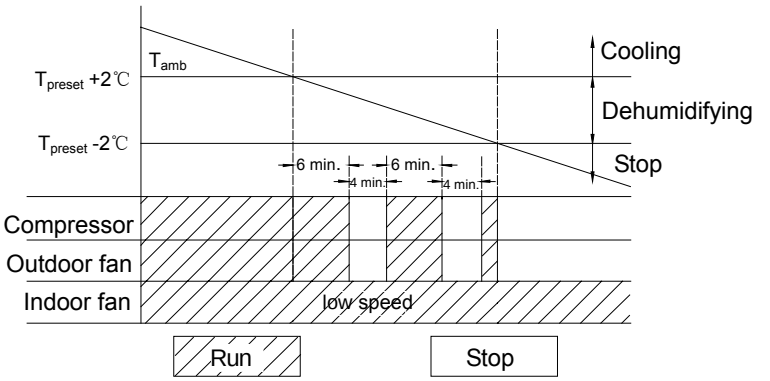
6.3.2.2.1 Working Conditions and Process of Dehumidifying

When $T_{amb.} > T_{preset} +2℃$, the unit will run under dehumidifying and cooling mode, in which case the compressor and outdoor fan will start to run, the indoor fan will run at low speed.

When $T_{preset} -2℃ \leq T_{amb.} \leq T_{preset} +2℃$, the unit will run under dehumidifying mode, in which case the indoor fan will keep run at low speed, while the compressor and outdoor fan will run 6 minutes and stop 4 minutes so repeated in cycle.

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

- Under this mode, the reversal valve will be de-energized and the temperature can be set within a range from 16 to 30℃.



6.3.2.2.2 Display

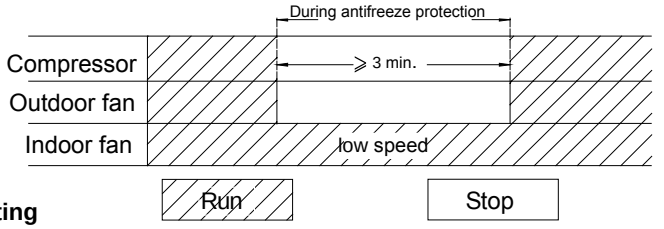
The display window will display run icon, dehumidifying icon and the set temperature.

6.3.2.2.3 Protection

◆ **Antifreeze Protection**

Under dehumidifying and cooling mode, 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 released and the compressor has stopped for 3 minutes, the complete unit will resume its original operating status.

Upon meeting "run 6 mins and stop 4 mins" dehumidify 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 released and the compressor has stopped for 4 minutes, the complete unit will resume its original operating status.



6.3.2.3 Heating Mode

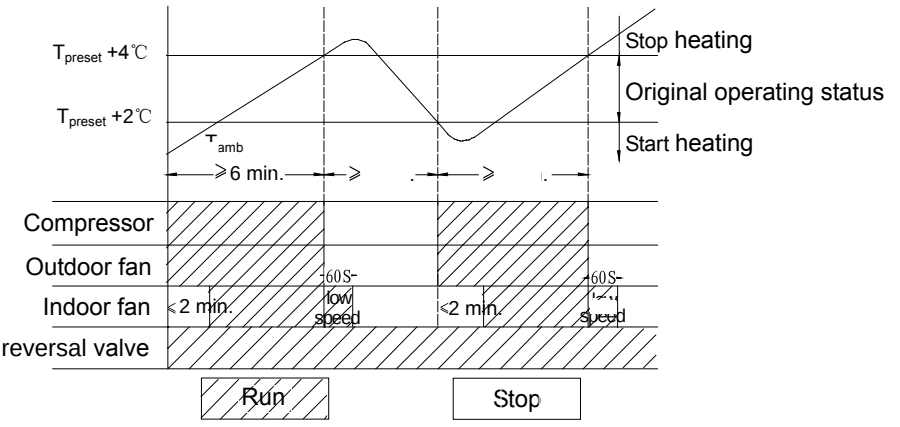
6.3.2.3.1 Working Conditions and Process of Heating

When $T_{amb.} \leq T_{preset} +2℃$, the unit will run under heating mode, in which case the reversal valve, compressor and outdoor fan will be simultaneously started, and the indoor fan will be started after 2 minutes the latest.

If $T_{amb.} \geq T_{preset} +4℃$, the compressor and outdoor fan will be stopped, the reversal valve is still energized and the indoor fan will run at low speed for 60 seconds before it is stopped.

When $T_{preset} +2℃ < T_{amb.} < T_{preset} +4℃$, the unit will maintain its original operating status.

- Under this mode,the temperature can be set within a range from 16 to 30℃.



6.3.2.3.2 Display

The display window will display run icon, heating icon and the set temperature.

6.3.2.3.3 Protection

◆ **High Temp. Protection**

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

◆**Noise Silencing Protection**

If the unit is stopped by pressing ON/OFF,or mode switching, the reversal valve will be stopped after 2-minute lag.

◆ Overcurrent Protection is the same as that under cooling mode(only indoor fan will run at low speed for 60 seconds before it is stopped).

6.3.2.3.4 Conditions and Process of Defrosting

Upon meet the defrosting condition, the system will enter into defrosting status, in which case the compressor will continue to run, the outdoor fan, 4-way valve and indoor fan will be stopped and the running indicator will blink. When it is detected that the frost in condenser is completely eliminated, the outdoor fan, 4-way valve and indoor fan , will be started , the compressor will keep running, and the running indicator will stop blinking.

➢ The first defrost after energization will last 10 minutes. Later, the defrost time can be adjusted according to the quantity of frost. Defrost takes longer if more frost (Max. 12 minutes) and takes shorter if less frost (Min. 7.0 minutes). The system will exit defrost mode upon completion of defrosting.

6.3.2.4 Fan mode

Under FAN mode, only the indoor fan runs at preset speed, the compressor,outdoor fan and 4-way valve are stop.

➢ Under this mode,the temperature can be set within a range from 16 to 30℃.

➢**Display : The display window will display run icon .**

6.3.2.5 Auto Mode

Under this mode, the system will automatically select its run mode (cool, dehumidify, heat or fan) with the change of ambient temperature.

➢ **Display : The display window will display run icon, current mode icon and the set temperature.**

➢ For protection function, same as under cooling,dehumidifying,fan and heating mode.There is 30s delay for mode switch.

6.3.3.Other Control

6.3.3.1 AUTO ON

To set AUTO ON function when the unit is under STOP status, after reaching the time of AUTO ON, the controller will run under preset mode. The time interval for AUTO ON is 0.5h and can be set within 0.5 - 24 hours.

6.3.3.2 AUTO OFF

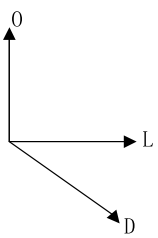
You can set AUTO OFF function when the unit is under ON status. After reaching the time of AUTO OFF, the system will be switched off. The time interval for AUTO OFF is 0.5h, and can be set within 0.5 - 24 hours.

6.3.3.3 Automatic Control of Fan Speed

In this mode, according to the change of ambient temperature, indoor fan will select High,Middle and Low fan speed auto -matically with an interval of changing at leasts 3mins and 30s among the wind speeds(first enter into Auto fan speed or mode switch,there is no 3mins and 30 s delay).Under any mode, there is not super high fan speed for Auto fan speed .

6.3.3.4 UP/DOWN Swing motor control

Once energized,the up and down swing motor will rotate the guide louver to position 0 to close the air outlet . If swing function is not set after the unit is started,the guide louver will be turned to L position when cooling and will be turned to D position when heating. If swing function is set after the unit start,the guide louver will swing between L and D position.when the unit is stop,the guide louver will be closed.If swing function is set, the guide louver will stay at current position when the indoor fan is stopped.When the indoor fan is restarted to run,the guide louver will resume to swing.



6.3.3.5 Buzzer

When the controller is energized or receives remote control signal or the auto key be pressed, the buzzer will give out a beep.

6.3.3.6 Indicator

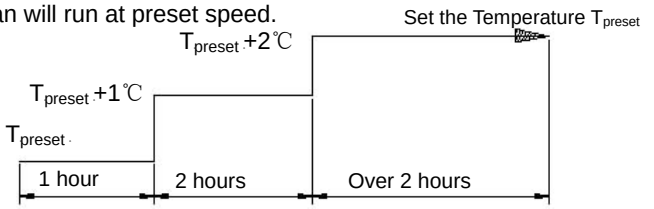
There is a dual colour indicator on the running display section, after energized, if the unit is standby, the run indicator will be red, and if the unit is running, the run indicator will be green.

6.3.3.7 Auto key

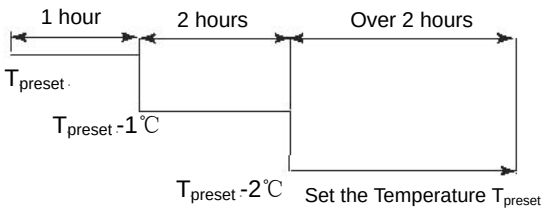
If one press of this key, the unit will run under AUTO mode and the indoor fan will run at AUTO SPEED.The swing motor is started when the indoor fan is working. Press this key again to stop the unit.

6.3.3.8 Sleep Function

Setting SLEEP function under COOL or DEHUMIDIFY mode, the preset temperature will automatically rise by 1℃ after 1 hour and rise by another 1℃ after 2 hours. Preset temperature will rise by 2℃ in total within 2 hours. After that, the unit will run at this preset temperature.If the indoor fan will run at preset speed.



Setting SLEEP function under HEAT mode, the preset temperature will automatically decrease by 1℃ after 1hour and decrease by another 1℃ after 2 hours. Preset temperature will decrease by 2 ℃ in total within 2 hours. After that, the unit will run at this preset temperature. If the indoor fan will run at preset speed.



If set sleep function under fan or auto mode, the set temperature will remain unchanged.

6.3.3.9 Super high fan speed control (GWCN24B5NE1NB)

The indoor fan motor run at super high fan speed : the super high fan speed is defaulted "off " when the unit is turned on by remote controller.If the controller has memory function, it will memorize the super high set when de-energized and re-energized. When turned off and then turned on, or switched to cooling mode from other mode, the controller will memorize the super high set, there is no super high set when switched to Auto, dehumidifying and fan mode.

6.3.3.10 Dry function (GWCN24B5NE1NB)

1). At "on" status under cooling or dehumidifying mode, you can set dry function "on" or "off". If the dry function is set "on", when the unit is switched off, the indoor fan will run at low speed for 10 mins(during this 10 mins,the swing will maintain its original operating status, other loads will be turned off), and then the whole unit will be stop. If the dry function is set "off", when the unit is switched off, the whole unit will be stopped directly.

2).During drying, if the dry function is set "off", the indoor fan will be stopped immediately and the guide louver will be closed.

3).When the dry function is set "on", there is " DRY" displayed on the display windor of remote controller.When turn off the dry function; there is no " DRY" displayed on the display windor of remote controller.

4).When de-energized and re-energized, the dry function is at "off" status.

5).Unless switched on by the remote controller, the dry function is defaulted "off " .

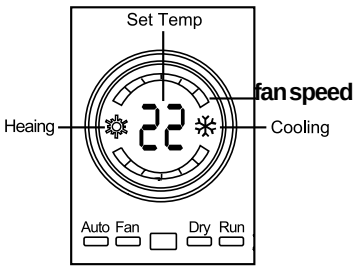
6.3.3.11 Display

6.3.3.11.1 Display of Run Icon and Mode Icon

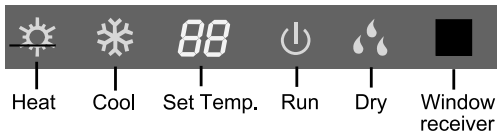
Once eneygized, all icon will flash in dynamic. When the unit is turned on by remote controller, the RUN icon and the preset Mode icon are bright at the same time. If the light key is turned off, only the RUN Icon is bright. When the unit is switched off, all icons except the power indicator are black.

6.3.3.11.2 Display

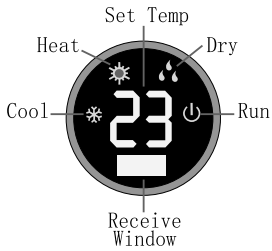
When turn on the unit,the Dual 8 nixietube will display preset temperature(range from 16 to 30℃).When PG motor locked protection occurs, the nixietube will display "H6".



Display of GWCN24B5NE1IB



Display of GWCN24B5NE1NB



GWCN18B5TD1LA; GWHN18B5TD1LA

6.3.3.12 Memory

Memory contents: Mode, UP/DOWN Swing, light, Set temp, Set fan speed.

After de-energized, and re-energized, the unit will start to run with the memory function automatically. The system, if the last remote control signal do not set timer function, will memorize the last remote control signal and run according to it. If the last remote control signal has set timer function, the system is de-energized before the set time,when re-energized, the system will memorize the timer function, the set time will recalculate. If the last remote control signal has set timer function and the system is de-energized after the set time, when re-energized, the system will memorize the running status before de-energized.

6.3.3.13 Indoor fan motor locked protection

1) When motor locked protection occurs, all loads stop (indoor fan, outer fan, compress etc, 4-way valve stop after 2 mins lag).
2) Once the motor locked protection occurs, it is need to power off the unit and then power on to resume to work.
3) When motor locked protection occurs, both the remote control receiving and pressing is available, but does not for specific control.
4) When motor locked protection occurs, if the unit is under "on" status, the malfunction indicator will display:if the unit is under "off" status, the malfunction indicator will be turned off.The specific display method method: the dual 8 nixietube will display "H6" and the running indicator will blink.

Note: It will be treated as locked while the motor rotating speed is too low.

7 Disassembly and Assembly Procedures

7.1 Disassembly Process of Indoor Unit

Operating Procedures / Photos

7.1.1 Disassemble Front Panel and Electric Box Top Cover

Loosen the clasps on the two side, pull open the front panel, pull out the two connection terminals of display screen, pull out the clasp on the back from the groove and take out the front panel. Unscrew the fixing screws on the elextric box top cover, open the top cover, loosen the clasp, and then remove the elextric box top cover.

(refer to Fig.7-1)

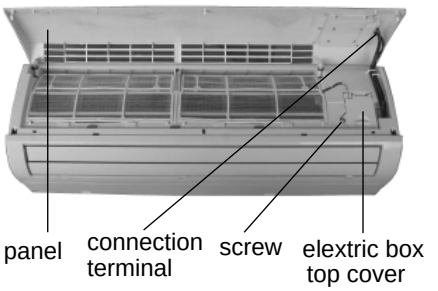


Fig.7-1

7.1.2 Disassemble Filter

Pull the filter upward to loosen the clasp and then pull out the two filters.

(refer to Fig.7-2)

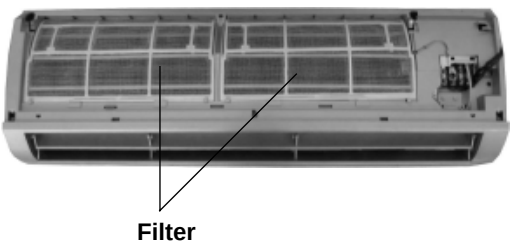


Fig.7-2

7.1.3 Disassemble Guide Louver

Manually bend the guide louver to remove the guide louver.

(refer to Fig.7-3)

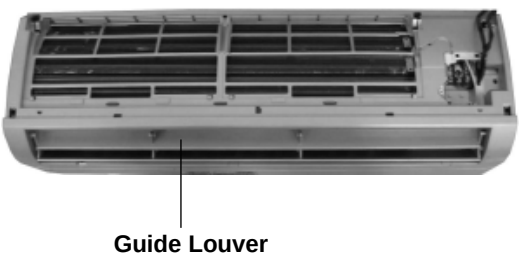


Fig.7-3

Operating Procedures / Photos

7.1.4 Disassemble Front Case

Unclench the three screw covers,unscrew the three screws fixing the front case, loosen the fore-and-aft clasps and remove the front case.

(refer to Fig. 7-4)

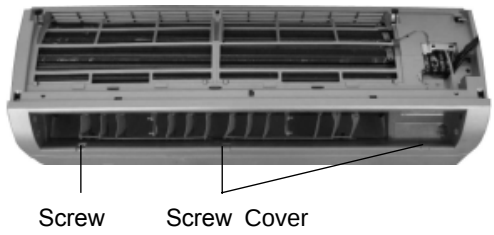


Fig. 7-4

7.1.5 Disassemble Cover of Electric Box

Loosen the three clasps, and remove the cover of the electric box.

(refer to Fig. 7-5)

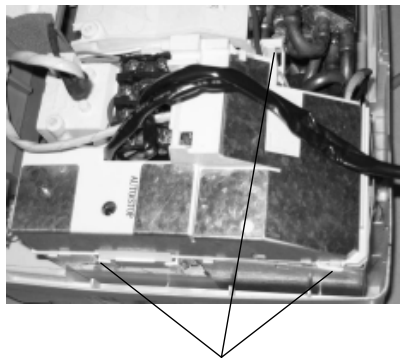


Fig. 7-5

7.1.6 Disassemble Water Tray

Loose the clasp at the left side, and disconnect the terminal of the stepping motor and take out the water tray .

(Pay attention not to damage the drainage pipe).

(refer to Fig. 7-6;7-7)

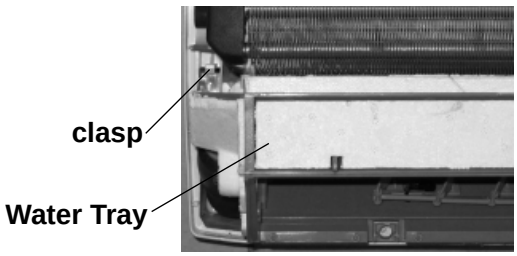


Fig. 7-6

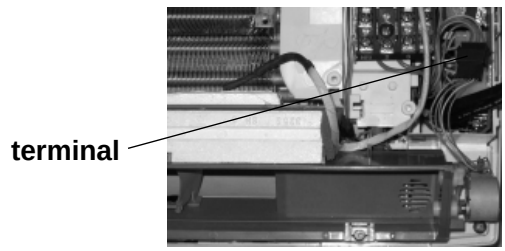


Fig. 7-7

Operating Procedures / Photos

7.1.7 Disassemble Electric Box

Unscrew the two screws fixing the electric box, loosen the clasp, pull out the tube sensor, unscrew grounding nut, disconnect the terminal of the motor and remove the electric box.

(refer to Fig. 7-8)

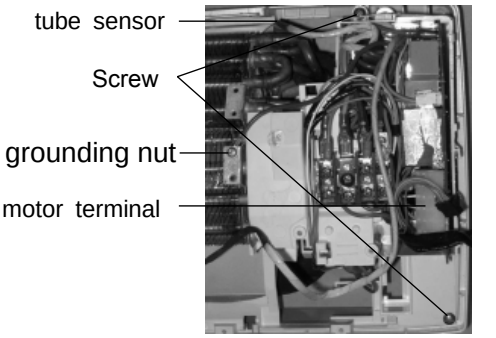


Fig. 7-8

7.1.8 Disassemble Evaporator

Unscrew the screws fixing the evaporator; one on the left, two on the right.
(refer to Fig. 7-9,7-10)

Manually lift the left side of evaporator,and push backward to let the side clasp of evaporator out of the groove. Carefully take out the evaporator and pay attention to protect the connecting pipe.

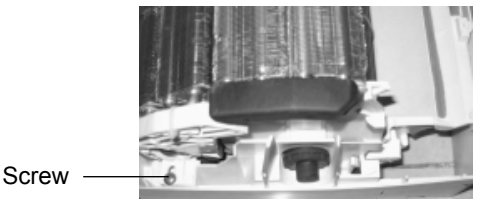


Fig. 7-9

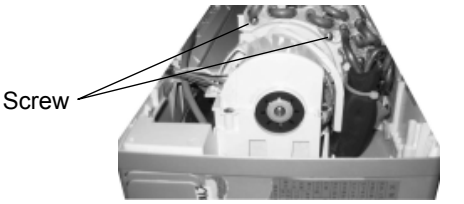


Fig. 7-10

7.1.9 Disassemble Motor

Unscrew the 3 screws fixing the motor clamp to remove the clamp.
(refer to Fig. 7-11)

Unscrew the holding nut fixing the cross flow fan, pull out the motor from the cross flow fan.

(refer to Fig. 7-12)

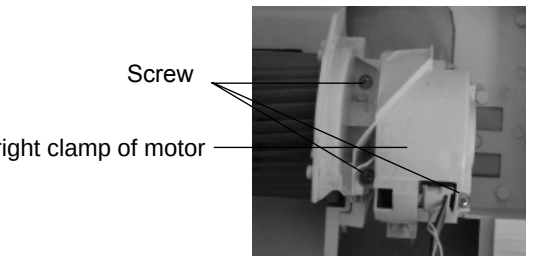


Fig. 7-11

7.1.10 Disassemble Cross Flow Fan

Refer to the above step, after pull out the motor, yor can remove the cross flow fan from the base.

(refer to Fig. 7-12)

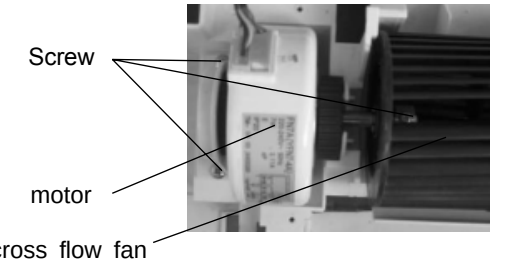


Fig. 7-12

7. 2 Disassembly Process of Indoor Unit

Operating Procedures / Photos

7. 2. 1 Disassemble Front Panel and Electric Box Top Cover

Loosen the clasps on the two side, pull open the front panel, pull out the two connection terminals of display screen, pull out the clasp on the back from the groove and take out the front panel. Unscrew the fixing screws on the elextric box top cover, open the top cover, loosen the clasp, and then remove the elextric box top cover.

(refer to Fig.7-13)

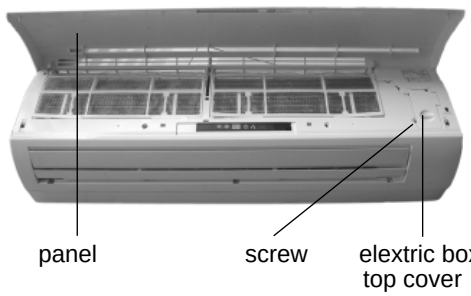


Fig.7-13

7. 2. 2 Disassemble Filter

Pull the filter upward to loosen the clasp and then pull out the two filters.

(refer to Fig.7-14)

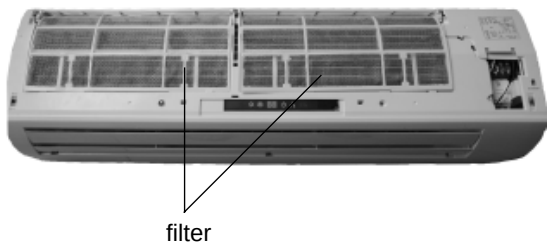


Fig.7-14

7. 2. 3 Disassemble Guide Louver

Manually bend the guide louver to remove the guide louver.

(refer to Fig.7-15)

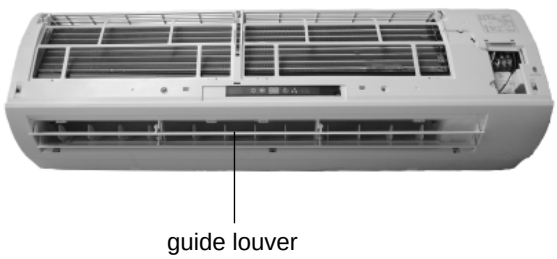


Fig.7-15

Operating Procedures / Photos

7.2.4 Disassemble Front Case

Unclench the three screw covers,unscrew the three screws fixing the front case, loosen the fore-and-aft clasps and remove the front case.

(refer to Fig. 7-16)

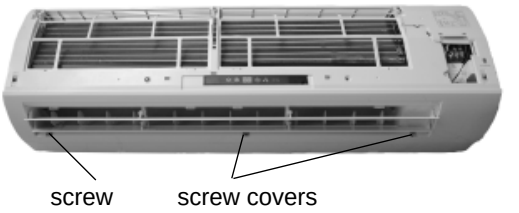


Fig.7-16

7.2.5 Disassemble Cover of Electric Box

Loosen the three clasps, and remove the cover of the electric box.

(refer to Fig. 7-17)

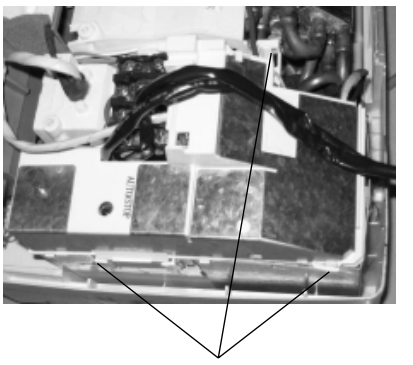


Fig.7-17

7.2.6 Disassemble Water Tray

Loose the clasp at the left side, and disconnect the terminal of the stepping motor and take out the water tray .
(Pay attention not to damage the drainage pipe).

(refer to Fig. 7-18,7-19)

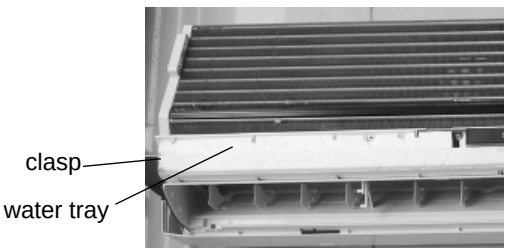


Fig.7-18

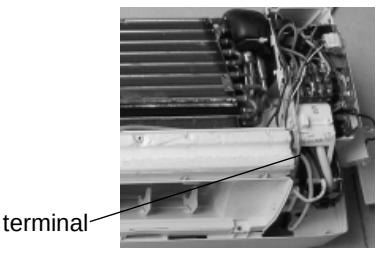


Fig.7-19

Operating Procedures / Photos

7.2.7 Disassemble Electric Box

Unscrew the two screws fixing the electric box, loosen the clasp, pull out the tube sensor, unscrew grounding nut, disconnect the terminal of the motor and remove the electric box.

(refer to Fig. 7-20)

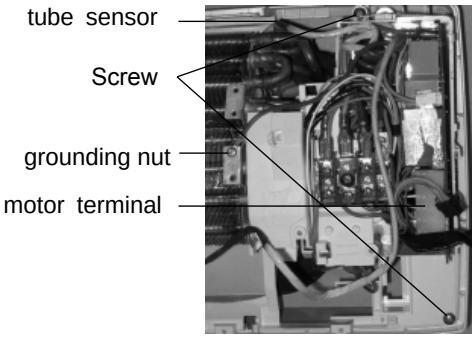


Fig.7-20

7.2.8 Disassemble Evaporator

Unscrew the screws fixing the evaporator; one on the left, two on the right.
(refer to Fig. 7-21,7-22)

Manually lift the left side of evaporator,and push backward to let the side clasp of evaporator out of the groove. Carefully take out the evaporator and pay attention to protect the connecting pipe.

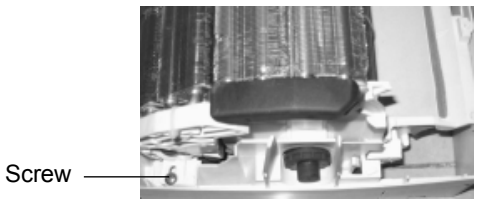


Fig.7-21

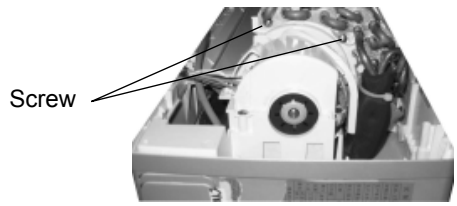


Fig.7-22

7.2.9 Disassemble Motor

Unscrew the 3 screws fixing the motor clamp to remove the clamp.
(refer to Fig. 7-23)

Unscrew the holding nut fixing the cross flow fan, pull out the motor from the cross flow fan.

(refer to Fig. 7-24)

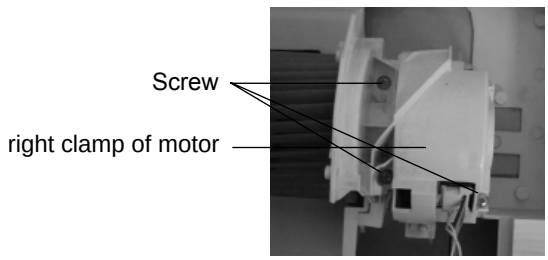


Fig.7-23

7.2.10 Disassemble Cross Flow Fan

Refer to the above step, after pull out the motor, yor can remove the cross flow fan from the base.

(refer to Fig. 7-24)

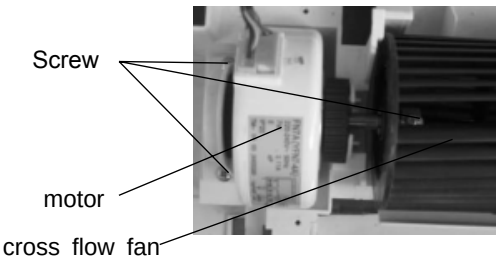


Fig.7-24

7. 3 Disassembly Procedures for Outdoor Unit

Operating Procedures / Photos

7. 3. 1 Disassemble Side Panel

Unscrew the screws fixing the side panel, push downward to remove the side panel.

(refer to Fig. 7-25)

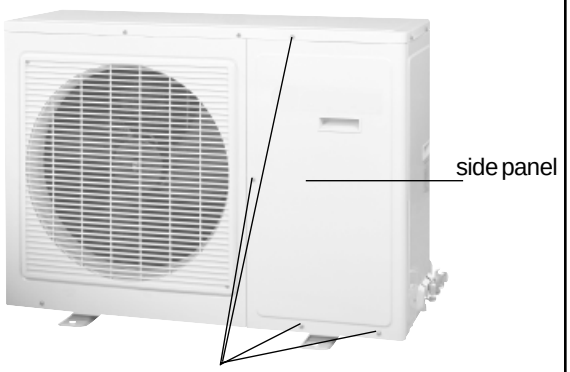


Fig.7-25

7. 3. 2 Disassemble Top Cover

Unscrew the screws fixing the top cover, and lift upward to remove the top cover.

(refer to Fig. 7-26)

Fig.7-26

7. 3. 3 Disassemble Rear Grill

Unscrew the 4 screws fixing the rear grill, to remove the rear grill.

(refer to Fig. 7-27)

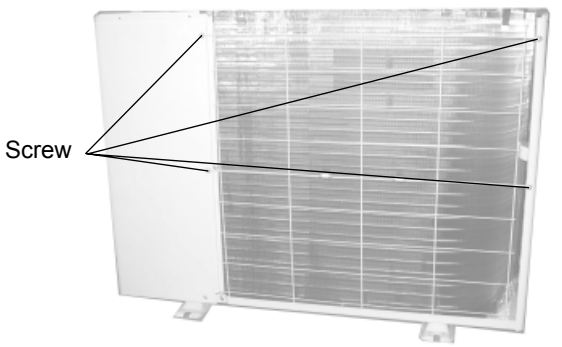


Fig.7-27

Operating Procedures / Photos

7.3.4 Disassemble Cabinet

Unscrew the screws fixing the cabinet to remove the cabinet .

(refer to Fig. 7-28)

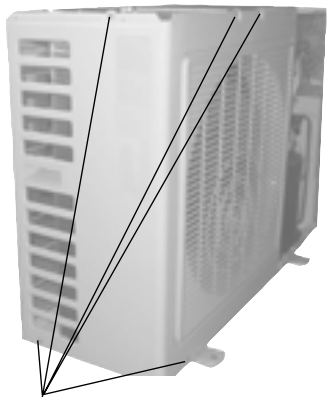


Fig.7-28

7.3.5 Disassemble Electric Box

Pull out the terminal pin of fan motor and the connecting wire of the compressor ,unscrew the 2 tapping screws fixing the electric box,to take out the electric box.

(refer to Fig. 7-29)

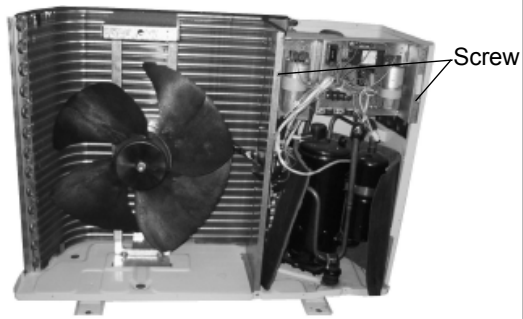


Fig.7-29

7.3.6 Disassemble Rear Side Plate

Unscrew the screws fixing the rear side plate and take off the rear side plate.

(refer to Fig. 7-30)

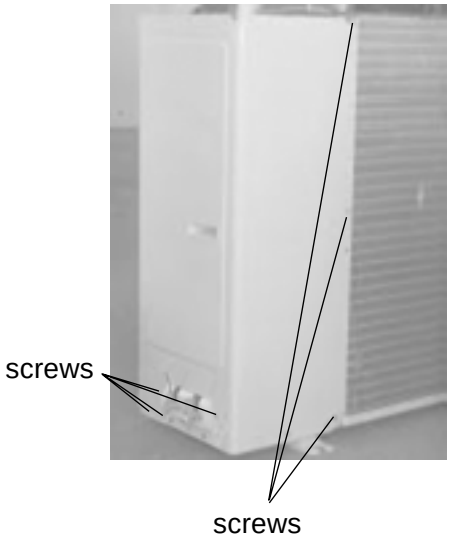


Fig.7-30

Operating Procedures / Photos

7.3.7 Disassemble axial-flow vane

Loosen tighten nut by spanner to take off nuts, spring washer, flat washer, and take off axial-flow vane forcibly.

(refer to Fig. 7-31)

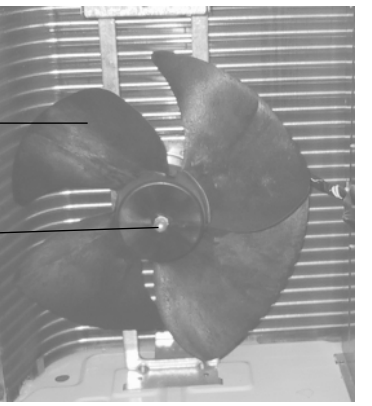


Fig.7-31

7.3.8 Disassemble Motor and Motor Support

Unscrew the tapping screws fixing the motor, and remove the motor. Unscrew the two screws fixing the motor support, and lift the motor support to remove it.

(refer to Fig. 7-30)

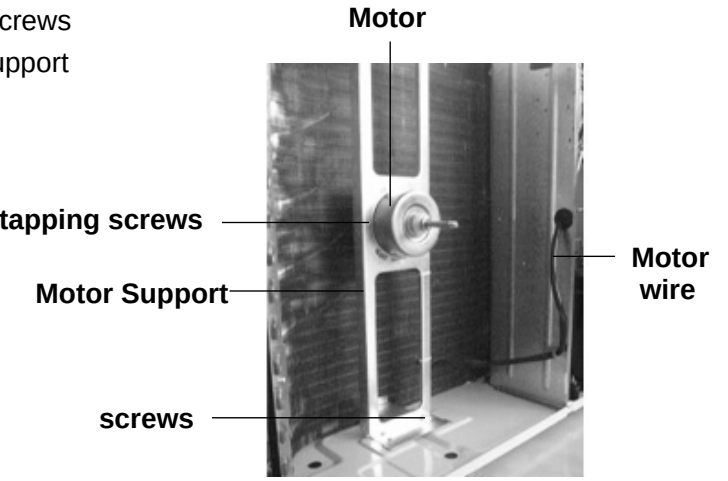


Fig.7-32

7.3.9 Disassemble 4-Way Valve (cooling only unit has not)

Screw off the holding nut of the 4-way valve coil and remove the coil. Use wet cotton cloth to wrap the 4-way valve, unsold the four soldering points connecting the 4-way valve, and remove the 4-way valve. Be quick during the unsoldering process, pay attention to keep the wrapping cloth wet and do not allow the soldering flame to burn the compressor lead-out cable.

(refer to Fig. 7-33)

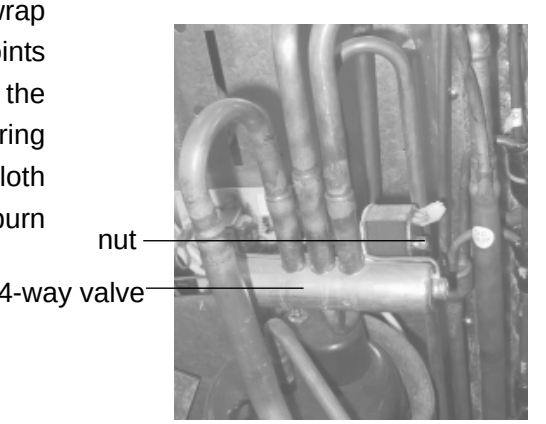


Fig.7-33

Operating Procedures / Photos

7.3.10 Disassemble Capillary

Unsolder the soldering points of the capillary subassembly and remove the capillary. Make sure that do not let any welding dregs to block the capillary.

(refer to Fig. 7-34)

Fig.7-34

7.3.11 Disassemble Valves

Unscrew the bolt fixing the valve,then unsolder the soldering point between the valve and the connect duct and remove the valve.

(refer to Fig. 7-35)

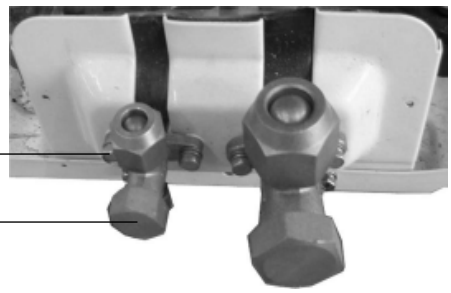


Fig.7-35

7.3.12 Disassemble Compressor

Unsolder the two soldering points of the compressor, Unscrew the three nuts at the foot of the compressor and take out the compressor.

(refer to Fig. 7-36)

Fig.7-36

7. 4 Disassembly Procedures for Outdoor Unit

Operating Procedures / Photos

7. 4. 1 Disassemble Top Cover

Unscrew the 6 screws around the top cover, and lift upward to remove the top cover.

(refer to Fig. 7-37)

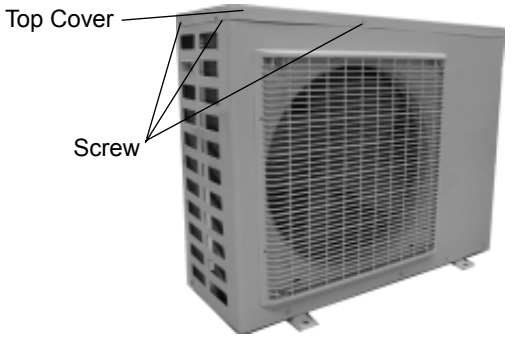


Fig.7-37

7. 4. 2 Disassemble Rear Grille

Unscrew the four tapping screws around the rear grille, and remove the rear grille.

(refer to Fig. 7-38)

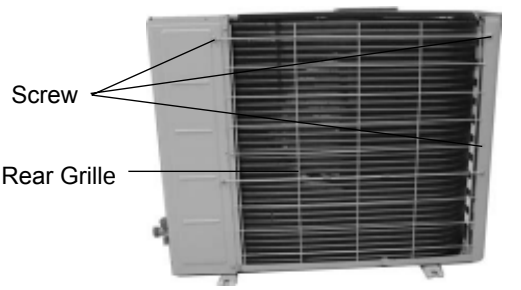


Fig.7-38

7. 4. 3 Disassemble Front Grille

Unscrew the four tapping screws around the front grille, and remove the front grille.

(refer to Fig. 7-39)

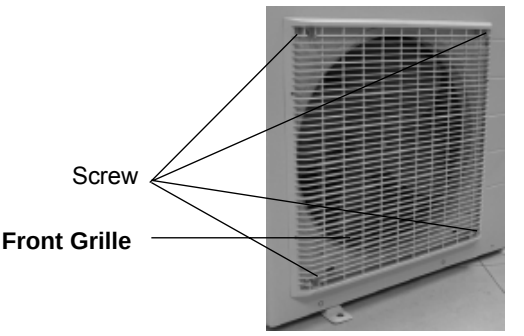


Fig.7-39

Operating Procedures / Photos

7.4.4 Disassemble Cabinet

Unscrew the tapping screws between the panel and the motor suport and side plate of condenser, then take out the panel .

(refer to Fig. 7-40)

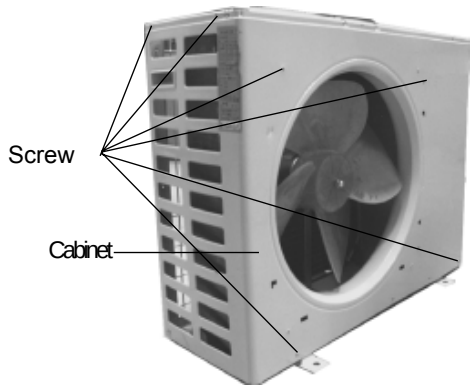


Fig.7-40

7.4.5 Disassemble Rear Side Plate

Unscrew the 9 screws at the rear side plate and take off the rear side plate.

(refer to Fig. 7-41)

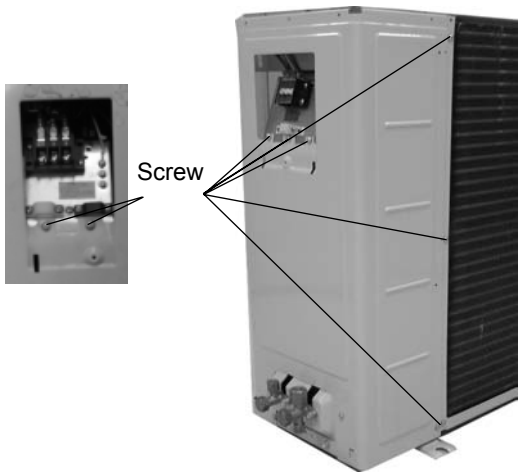


Fig.7-41

7.4.6 Disassemble Electric Box

Unscrew the 4 screws at the cover of the electric box to take out the cover.
Unscrew the 2 screws fixing the electric box, pull out the terminal pins of fan motor, compressor, reactor and 4-way valve and then take out the electric box.

(refer to Fig. 7-42)

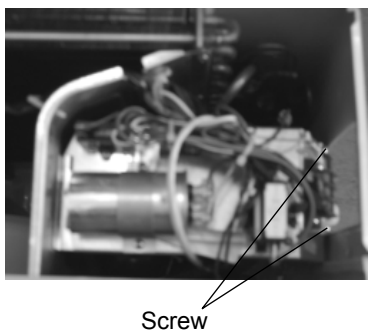


Fig.7-42

7.4.7 Disassemble axial-flow vane

Loosen tighten nut by spanner to take off nuts, spring washer, flat washer, and take off axial-flow vane forcibly.

(refer to Fig. 7-43)

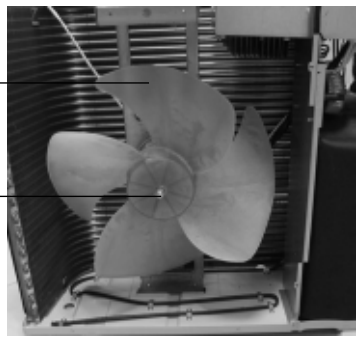


Fig.7-43

7.4.8 Disassemble Motor and Motor Support

Unscrew the 4 screws fixing the motor,and remove the motor. Unscrew the two screws fixing the motor support, and remove the motor support .

(refer to Fig. 7-44)

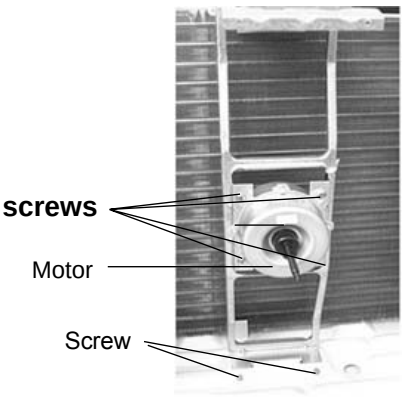


Fig.7-44

7.4.9 Disassemble 4-Way Valve

Screw off the holding nut of the 4-way valve coil and remove the coil. Use wet cotton cloth to wrap the 4-way valve, unsold the four soldering points connecting the 4-way valve, and remove the 4-way valve.

(refer to Fig. 7-45)

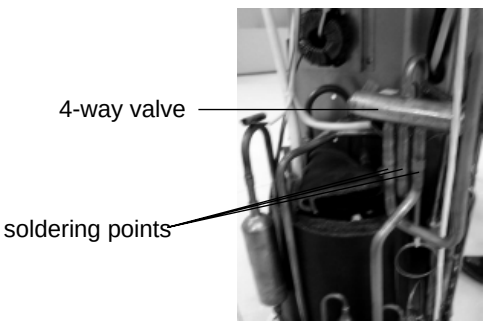


Fig.7-45

Operating Procedures / Photos

7.4.10 Disassemble Capillary

Unsolder the soldering points of the capillary subassembly and remove the capillary. Make sure that do not let any welding dregs to block the capillary.

(refer to Fig. 7-46)

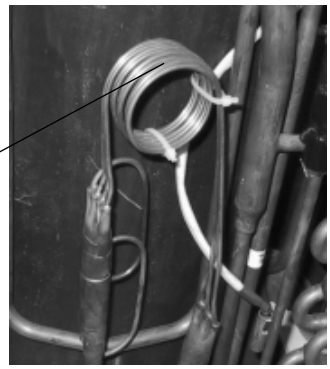


Fig.7-46

7.4.11 Disassemble Valves

Unscrew the bolt fixing the valve,then unsolder the soldering point between the valve and the connect duct and remove the valve.

(refer to Fig. 7-47)

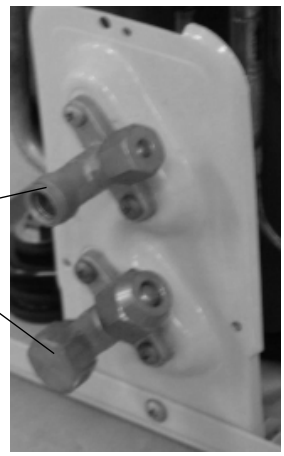


Fig.7-47

7.4.12 Disassemble Compressor

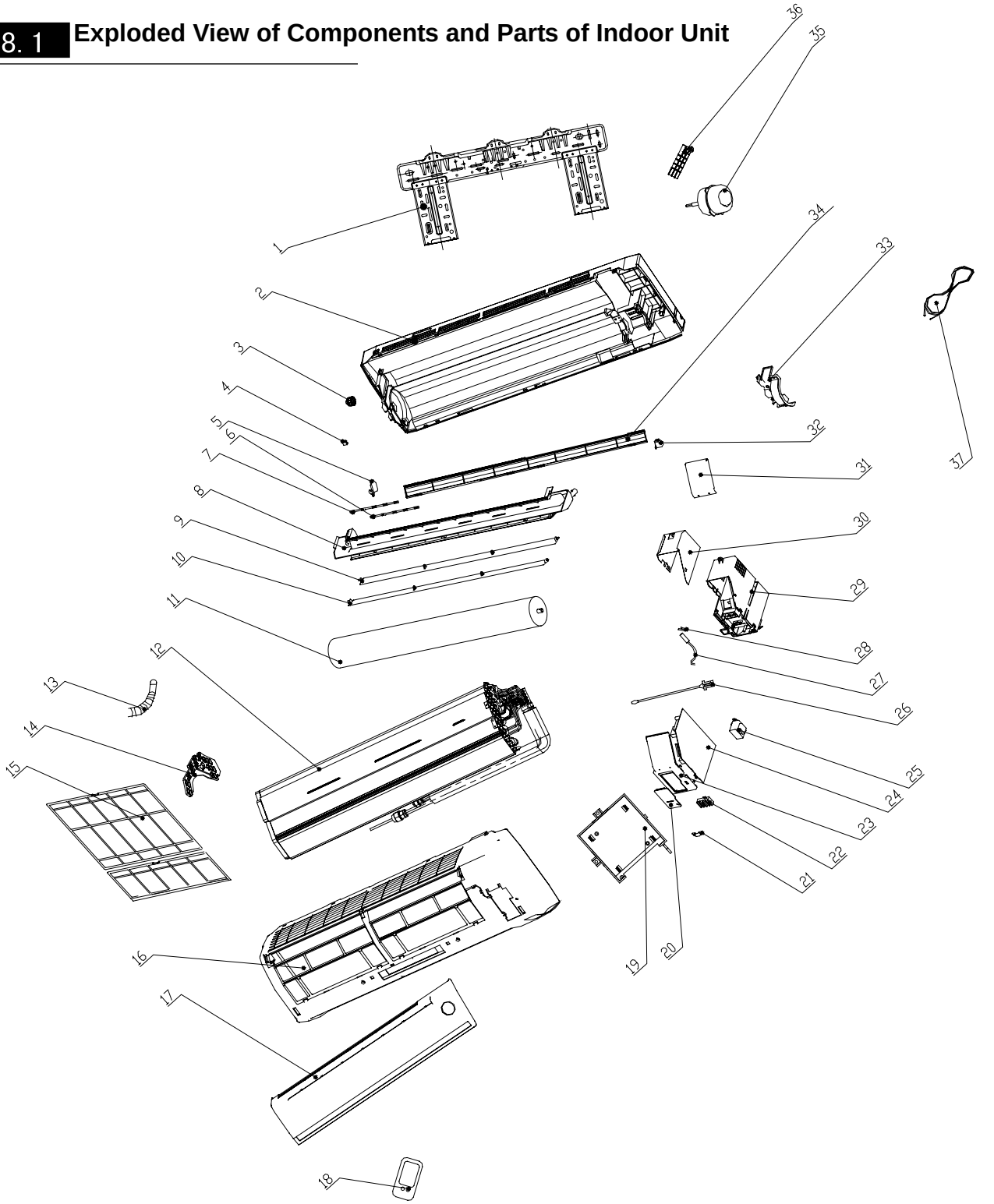
Unsolder the two soldering points of the compressor, unscrew the three nuts at the foot of the compressor and take out the compressor.

(refer to Fig. 7-48)

Fig.7-48

8 Exploded View and Components and Parts List

8.1 Exploded View of Components and Parts of Indoor Unit

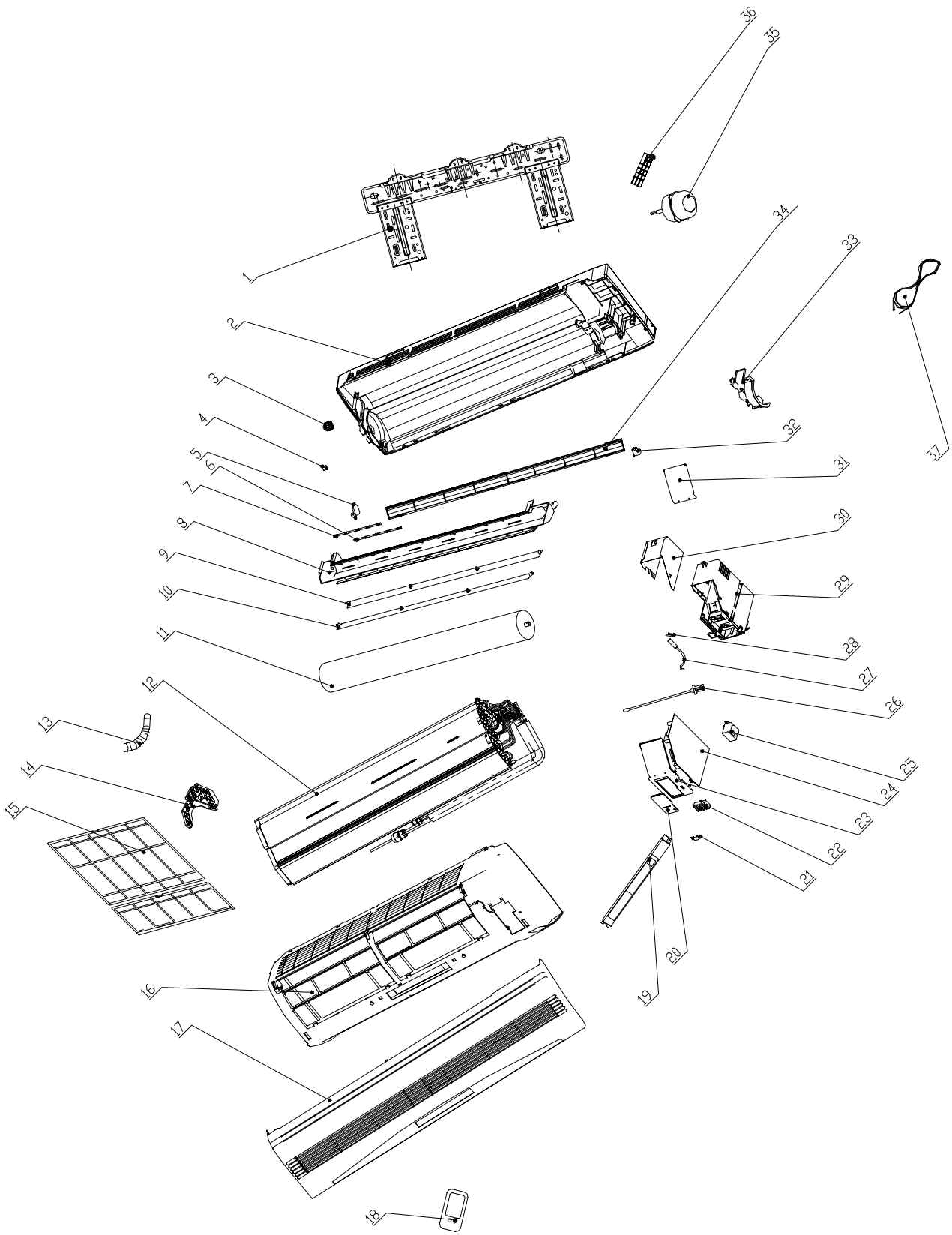


8.2 Components and Parts List of Indoor Unit

No	Description	Part Code		QTY
		GWCN18B5TD1LA/I	GWHN18B5TD1LA/I	
1	Wall-Mounting Frame	01252004	01252004	1
2	Rear Case	22202329	22202329	1
3	Fan Bearing	76512210	76512210	1
4	Screw Cover	24252015	24252015	3
5	Swing Louver	10512429	10512429	12
6	Swing Link 1	10582057	10582057	1
7	Swing Link 2	10582058	10582058	1
8	Water Tray	20182057	20182057	1
9	Guide Louver（up）	10512085	10512085	1
10	Guide Louver（down）	10512086	10512086	1
11	Cross Flow Fan	10352022	10352022	1
12	Evaporator Assy	010022281	010022281	1
13	Drainage Pipe	052324111	052324111	1
14	Evaporator Support	24212067	24212067	1
15	Filter	11122048	11122048	2
16	Front Case	200026524	200026524	1
17	Front Panel	20002858	20002858	1
18	Remote Controller Y512	30519003	30519003	1
19	Displaying Light Board	26152020	26152020	1
20	Electric Box Cover 1	20112019	20112019	1
21	Wire Clamp	71010103	71010103	1
22	Terminal Board T4B3A	42011233	42011233	1
23	Electric Box Cover	20112020	20112020	1
24	Main PCB	30030218	30030225	1
25	Transformer 57X25C	43110237	43110237	1
26	Room Sensor 15k	390000451	390000451	1
27	Tube Sensor 20k	390000595	390000595	1
28	Sensor Insert	42020063	42020063	1
29	Electric Box	20112018	20112018	1
30	Lower Shield of Electric Box	01592037	01592037	1
31	Upper Shield of Electric Box	01592038	01592038	1
32	Stepping Motor MP28EA	15212102	15212102	1
33	Motor Clamp	26112095	26112095	1
34	Helicoid tongue	26252009	26252009	1
35	Motor FN20C-PG	15012077	15012077	1
36	Pipe Clamp	24242001	24242001	1
37	Connecting Cable	400205382	400205382	1

No	Description	Part Code		QTY
		GWCN24B5TD1LA/I	GWHN24B5TD1LA/I	
1	Wall-Mounting Frame	01252004	01252004	1
2	Rear Case	22202329	22202329	1
3	Fan Bearing	76512210	76512210	1
4	Screw Cover	24252015	24252015	3
5	Swing Louver	10512429	10512429	12
6	Swing Link 1	10582057	10582057	1
7	Swing Link 2	10582058	10582058	1
8	Water Tray	20182057	20182057	1
9	Guide Louver（up）	10512085	10512085	1
10	Guide Louver（down）	10512086	10512086	1
11	Cross Flow Fan	10352022	10352022	1
12	Evaporator Assy	010024901	010024901	1
13	Drainage Pipe	052324111	052324111	1
14	Evaporator Support	24212067	24212067	1
15	Filter	11122048	11122048	2
16	Front Case	200026524	200026524	1
17	Front Panel	20002858	20002858	1
18	Remote Controller Y512	30519003	30519003	1
19	Displaying Light Board	26152020	26152020	1
20	Electric Box Cover 1	20112019	20112019	1
21	Wire Clamp	71010103	71010103	1
22	Terminal Board T4B3A	42011233	42011233	1
23	Electric Box Cover	20112020	20112020	1
24	Main PCB	30030224	30030223	1
25	Transformer 57X25C	43110237	43110237	1
26	Room Sensor 15k	390000451	390000451	1
27	Tube Sensor 20k	390000595	390000595	1
28	Sensor Insert	42020063	42020063	1
29	Electric Box	20112018	20112018	1
30	Lower Shield of Electric Box	01592037	01592037	1
31	Upper Shield of Electric Box	01592038	01592038	1
32	Stepping Motor MP28EA	15212102	15212102	1
33	Motor Clamp	26112095	26112095	1
34	Helicoid tongue	26252009	26252009	1
35	Motor FN20C-PG	15012077	15012077	1
36	Pipe Clamp	24242001	24242001	1
37	Connecting Cable	400205382	400205382	1

8. 3 Exploded View of Components and Parts of Indoor Unit

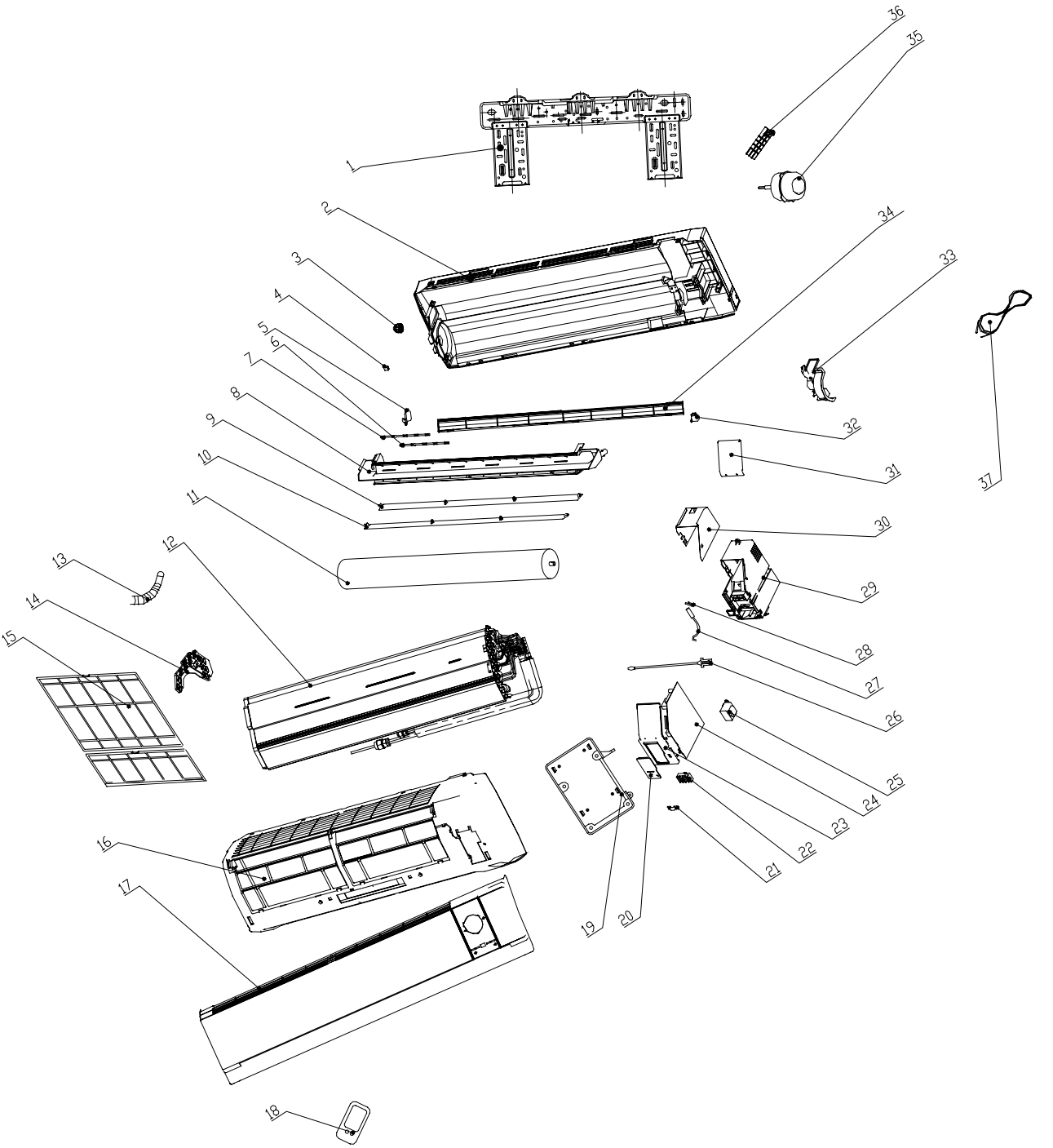


8.4 Components and Parts List of Indoor Unit

No	Description	Part Code		QTY
		GWCN18B5TD1CA/I	GWHN18B5TD1CA/I	
1	Wall-Mounting Frame	01252004	01252004	1
2	Rear Case	22202329	22202329	1
3	Fan Bearing	76512210	76512210	1
4	Screw Cover	24252015	24252015	3
5	Swing Louver	10512429	10512429	12
6	Swing Link 1	10582057	10582057	1
7	Swing Link 2	10582058	10582058	1
8	Water Tray	20182057	20182057	1
9	Guide Louver（up）	10512085	10512085	1
10	Guide Louver（down）	10512086	10512086	1
11	Cross Flow Fan	10352022	10352022	1
12	Evaporator Assy	010024901	010024901	1
13	Drainage Pipe	052324111	052324111	1
14	Evaporator Support	24212067	24212067	1
15	Filter	11122048	11122048	2
16	Front Case	20002652	20002652	1
17	Front Panel	20002854	20002854	1
18	Remote Controller YC1D	30511001	30511001	1
19	Displaying Light Board	22432069	22432069	1
20	Electric Box Cover 1	20112019	20112019	1
21	Wire Clamp	71010103	71010103	1
22	Terminal Board T4B3A	42011233	42011233	1
23	Electric Box Cover	20112020	20112020	1
24	Main PCB	30030339	0030340	1
24	Main PCB	30030221	30030220	1
25	Transformer 57X25C	43110237	43110237	1
26	Room Sensor 15k	390000451	390000451	1
27	Tube Sensor 20k	390000595	390000595	1
28	Sensor Insert	42020063	42020063	1
29	Electric Box	20112018	20112018	1
30	Lower Shield of Electric Box	01592037	01592037	1
31	Upper Shield of Electric Box	01592038	01592038	1
32	Stepping Motor MP28EA	15212102	15212102	1
33	Motor Clamp	26112095	26112095	1
34	Helicoid tongue	26252009	26252009	1
35	Motor FN20C-PG	15012077	15012077	1
36	Pipe Clamp	24242001	24242001	1
37	Connecting Cable	400205382	400205382	1

No	Description	Part Code		QTY
		GWCN24B5TD1CA/I	GWHN24B5TD1CA/I	
1	Wall-Mounting Frame	01252004	01252004	1
2	Rear Case	22202329	22202329	1
3	Fan Bearing	76512210	76512210	1
4	Screw Cover	24252015	24252015	3
5	Swing Louver	10512429	10512429	12
6	Swing Link 1	10582057	10582057	1
7	Swing Link 2	10582058	10582058	1
8	Water Tray	20182057	20182057	1
9	Guide Louver（up）	10512085	10512085	1
10	Guide Louver（down）	10512086	10512086	1
11	Cross Flow Fan	10352022	10352022	1
12	Evaporator Assy	010024901	010024901	1
13	Drainage Pipe	052324111	052324111	1
14	Evaporator Support	24212067	24212067	1
15	Filter	11122048	11122048	2
16	Front Case	20002652	20002652	1
17	Front Panel	20002854	20002854	1
18	Remote Controller YC1D	30511001	30511001	1
19	Displaying Light Board	22432069	22432069	1
20	Electric Box Cover 1	20112019	20112019	1
21	Wire Clamp	71010103	71010103	1
22	Terminal Board T4B3A	42011233	42011233	1
23	Electric Box Cover	20112020	20112020	1
24	Main PCB	30030341	30030342	1
24	Main PCB	30030216	30030215	1
25	Transformer 57X25C	43110237	43110237	1
26	Room Sensor 15k	390000451	390000451	1
27	Tube Sensor 20k	390000595	390000595	1
28	Sensor Insert	42020063	42020063	1
29	Electric Box	20112018	20112018	1
30	Lower Shield of Electric Box	01592037	01592037	1
31	Upper Shield of Electric Box	01592038	01592038	1
32	Stepping Motor MP28EA	15212102	15212102	1
33	Motor Clamp	26112095	26112095	1
34	Helicoid tongue	26252009	26252009	1
35	Motor FN20C-PG	15012077	15012077	1
36	Pipe Clamp	24242001	24242001	1
37	Connecting Cable	400205382	400205382	1

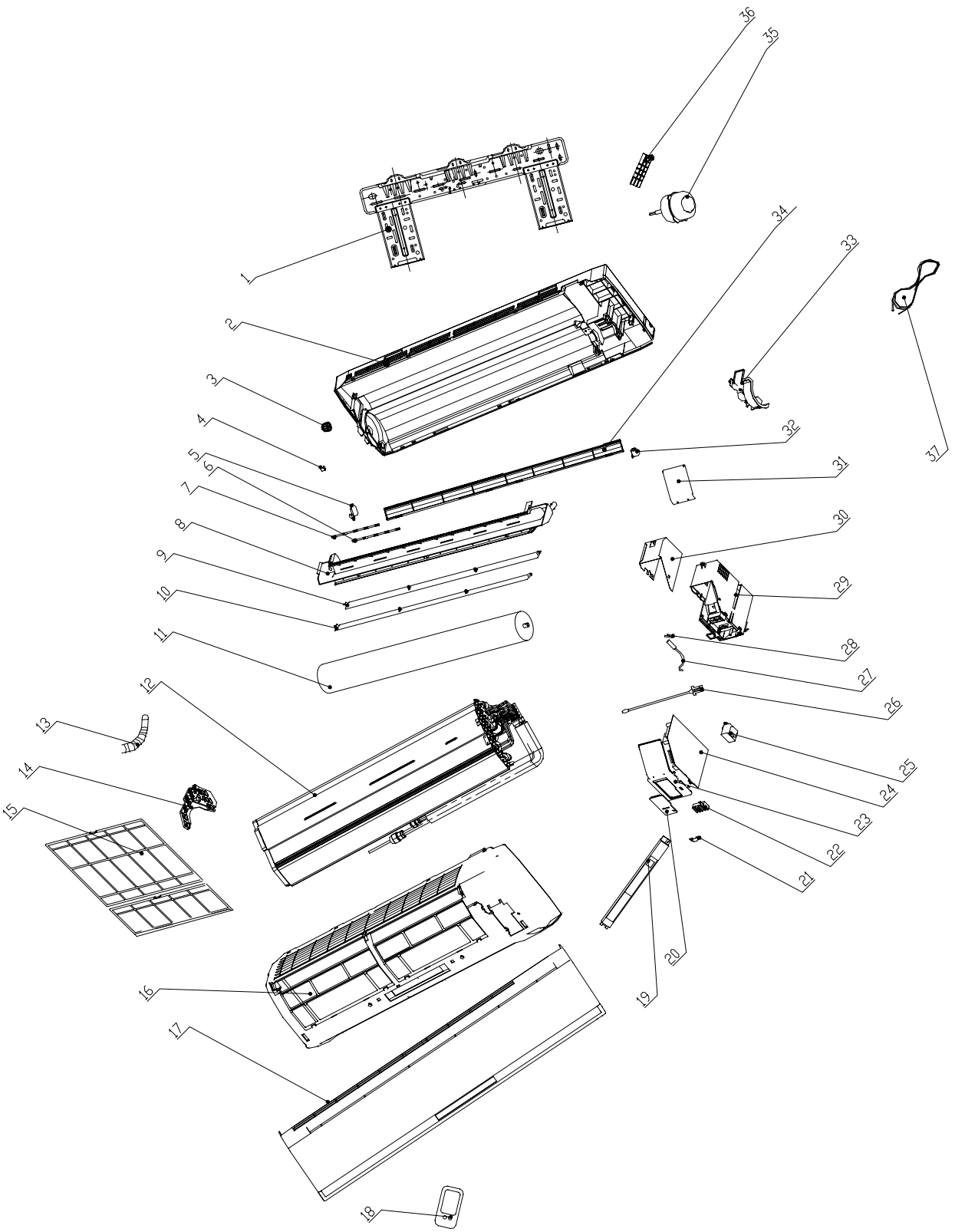
8.5 Exploded View of Components and Parts of Indoor Unit



8.6 Components and Parts List of Indoor Unit

No	Description	Part Code		QTY
		GWCN24B5NE1IB/I	GWHN24B5NK3FA/I	
1	Wall-Mounting Frame	01252004	01252004	1
2	Rear Case	22202329	22202329	1
3	Fan Bearing	76512210	76512210	1
4	Screw Cover	24252015	24252015	3
5	Swing Louver	10512429	10512429	12
6	Swing Link 1	10582057	10582057	1
7	Swing Link 2	10582058	10582058	1
8	Water Tray	20182057	20182057	1
9	Guide Louver（up）	10512085	10512085	1
10	Guide Louver（down）	10512086	10512086	1
11	Cross Flow Fan	10352022	10352022	1
12	Evaporator Assy	010022281	010022362	1
13	Drainage Pipe	052324111	052324111	1
14	Evaporator Support	24212067	24212067	1
15	Filter	11122048	11122048	2
16	Front Case	200026524	200026524	1
17	Front Panel	20002844	20002833	1
18	Remote Controller YB0A21	30510011	305160051	1
19	Displaying Light Board	22432071	22432071	1
20	Electric Box Cover 1	20112019	20112019	1
21	Wire Clamp	71010103	71010103	1
22	Terminal Board T4B3A	42011233	42011233	1
23	Electric Box Cover	20112020	20112020	1
24	Main PCB	30037506	30037202	1
25	Transformer 57X25C	43110237	43110214	1
26	Room Sensor 15k	390000451	390000451	1
27	Tube Sensor 20k	390000595	390000595	1
28	Sensor Insert	42020063	42020063	1
29	Electric Box	20112018	20112018	1
30	Lower Shield of Electric Box	01592037	01592037	1
31	Upper Shield of Electric Box	01592038	01592038	1
32	Stepping Motor MP28EA	15212102	15212102	1
33	Motor Clamp	26112095	26112095	1
34	Helicoid tongue	26252009	26252009	1
35	Motor FN20C-PG	15012077	15012077	1
36	Pipe Clamp	24242001	24242001	1
37	Connecting Cable	40020789	400205382	1

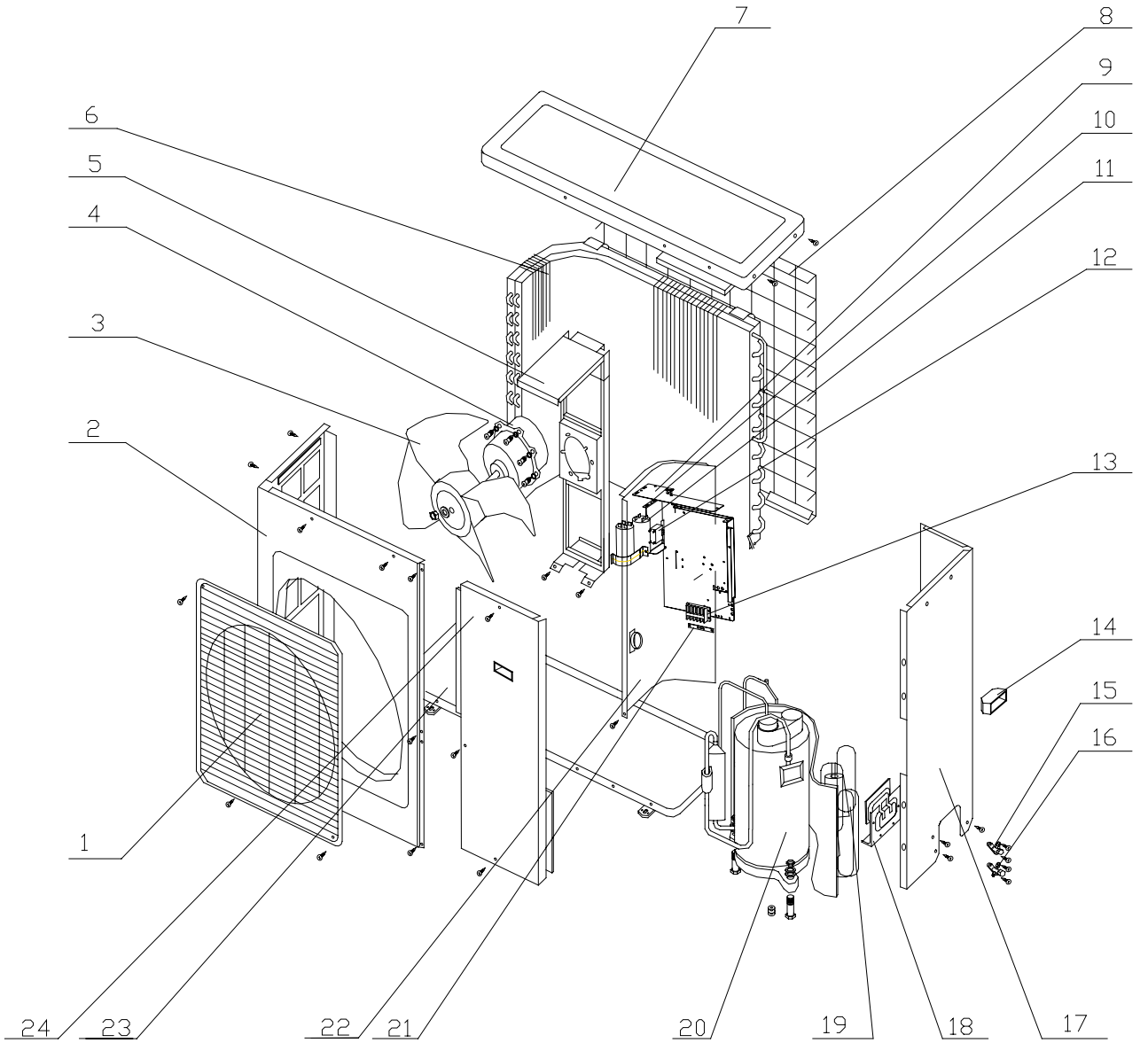
8. 7 Exploded View of Components and Parts of Indoor Unit



8.8 Components and Parts List of Indoor Unit

No	Description	Part Code			QTY
		GWCN24B5NE1NB/I	GWHN24B5NK2NA/I	GWHN18B5NK1NA/I	
1	Wall-Mounting Frame	01252004	01252004	01252004	1
2	Rear Case	22202329	22202329	22202329	1
3	Fan Bearing	76512210	76512210	76512210	1
4	Screw Cover	24252015	24252015	24252015	3
5	Swing Louver	10512429	10512429	10512429	12
6	Swing Link 1	10582057	10582057	10582057	1
7	Swing Link 2	10582058	10582058	10582058	1
8	Water Tray	20182057	20182057	20182057	1
9	Guide Louver（up）	10512085	10512085	10512085	1
10	Guide Louver（down）	10512086	10512086	10512086	1
11	Cross Flow Fan	10352022	10352022	10352022	1
12	Evaporator Assy	010022281	010024903	010024901	1
13	Drainage Pipe	052324111	052324111	052324111	1
14	Evaporator Support	24212067	24212067	24212067	1
15	Filter	11122048	11122048	11122048	2
16	Front Case	20002652	20002652	20002652	1
17	Front Panel	20002843	20002843	20002843	1
18	Remote Controller YB1A21	30511009	30511009	30511009	1
19	Displaying Light Board	22432069	22432069	22432069	1
20	Electric Box Cover 1	20112019	20112019	20112019	1
21	Wire Clamp	71010103	71010103	71010103	1
22	Terminal Board T4B3A	42011233	42011233	42011233	1
23	Electric Box Cover	20112020	20112020	20112020	1
24	Main PCB	30030310	30030309	30030309	1
25	Transformer 57X25C	43110237	43110237	43110237	1
26	Room Sensor 15k	390000451	390000451	390000451	1
27	Tube Sensor 20k	390000595	390000595	390000595	1
28	Sensor Insert	42020063	42020063	42020063	1
29	Electric Box	20112018	20112018	20112018	1
30	Lower Shield of Electric Box	01592037	01592037	01592037	1
31	Upper Shield of Electric Box	01592038	01592038	01592038	1
32	Stepping Motor MP28EA	15212102	15212102	15212102	1
33	Motor Clamp	26112095	26112095	26112095	1
34	Helicoid tongue	26252009	26252009	26252009	1
35	Motor FN20C-PG	15012077	15012077	15012077	1
36	Pipe Clamp	24242001	24242001	24242001	1
37	Connecting Cable	40020789	400205382	400205382	1

8.9 Exploded View of Components and Parts of Outdoor Unit

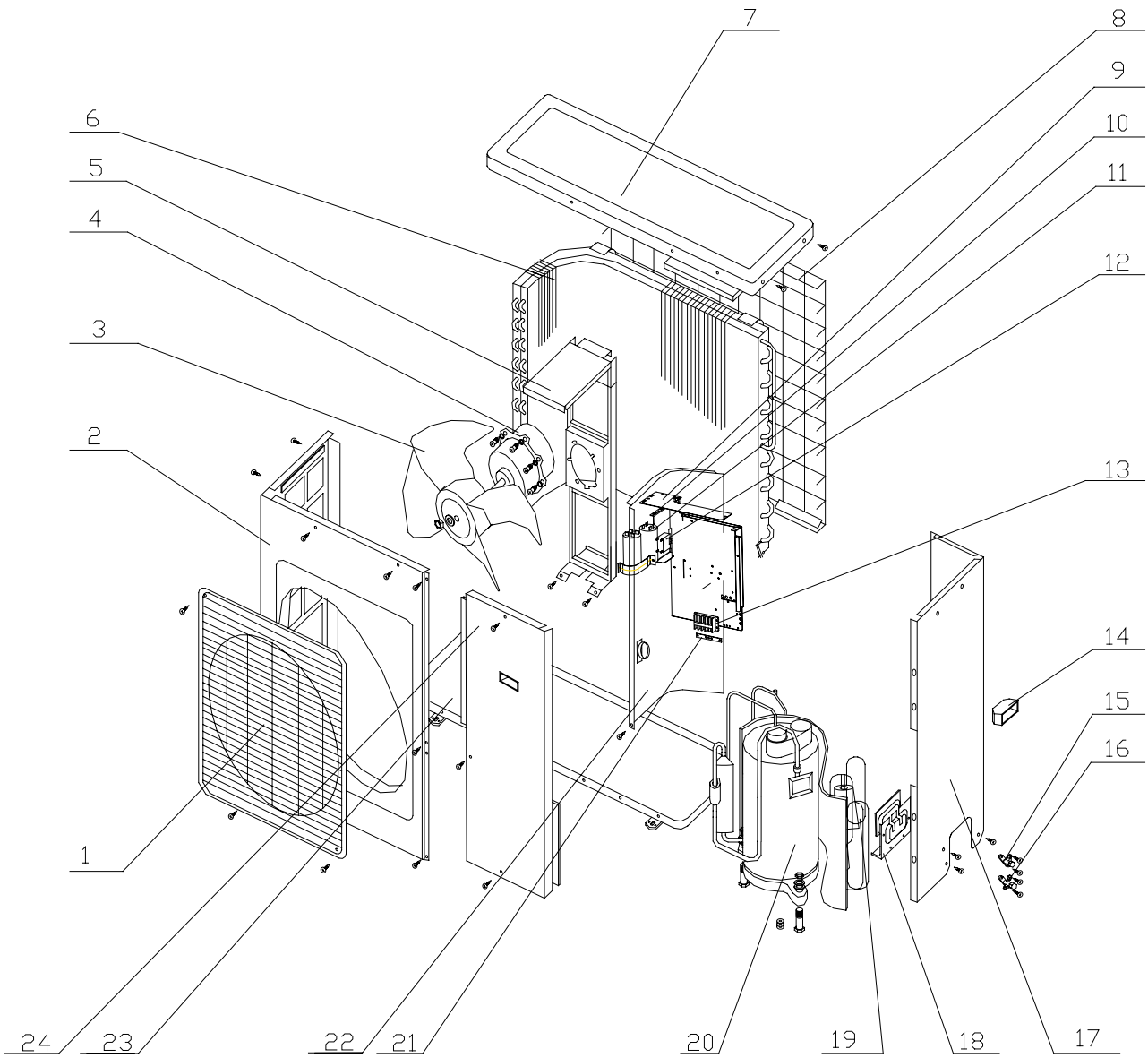


8.10 Components and Parts List of Indoor Unit

NO	Description	part code		QTY
		GWCN18B5TD1LA/O	GWCN24B5TD1LA/O	
1	Front Grill	22265251	22265251	1
2	Front Plate	01433031	01433031	1
3	Axial Flow Fan	10335257	10335257	1
4	Motor FW68B	15013062	15013062	1
5	Motor Support	01703027	01703027	1
6	Condenser Assy	011030694	011030691	1
7	Top Cover	01255262	01255262	1
8	Rear Grill	01473028	01473028	1
9	Electric Box Cover	01413047	01413047	1
10	Electric Plate	01405215	01405215	1
11	Capacitor CBB65 25uF/450V	33000017	33000017	1
12	Capacitor CBB65	33010010	33010010	1
13	Terminal Board A	42011113	42011113	1
14	Handle	26235253	26235253	1
15	Gas Valve Assy	071302331	07105252	1
16	Liquid Valve Assy	071302201	07105256	1
17	Rear Side Plate	01303115	01303115	1
18	Valve Support	01715001	01715001	1
19	Capillary Assy	03103256	03003537	1
20	Compressor AWZ5516EXN	00120208	00100526	1
21	Isolation Washer D	70410525	70410525	1
22	Clapboard	01233024	01233024	1
23	Metal Base	012050114	012050114	1
24	Front Side Plate	01303092	01303092	1

NO	Description	part code	QTY
		GWCN18B5TD1CA/O	
1	Front Grill	22265251	1
2	Front Plate	01433031	1
3	Axial Flow Fan	10335257	1
4	Motor FW68B	15013062	1
5	Motor Support	01703027	1
6	Condenser Assy	011030694	1
7	Top Cover	01255262	1
8	Rear Grill	01473024	1
9	Electric Box Cover	01413047	1
10	Electric Plate	01405215	1
11	Capacitor CBB65	33000017	1
12	Capacitor CBB61 3.5uF/450V	33010010	1
13	Terminal Board A	42011113	1
14	Handle	26235253	1
15	Gas Valve Assy	07105252	1
16	Liquid Valve Assy	07103018	1
17	Rear Side Plate	01305025	1
18	Valve Support	01715001	1
19	Capillary Assy	03103166	1
20	Compressor AWZ 5516 EXN	00120208	1
21	Isolation Washer C	70410523	1
22	Clapboard	01233024	1
23	Metal Base	012050114	1
24	Front Side Plate	01303092	1

8. 11 Exploded View of Components and Parts of Outdoor Unit

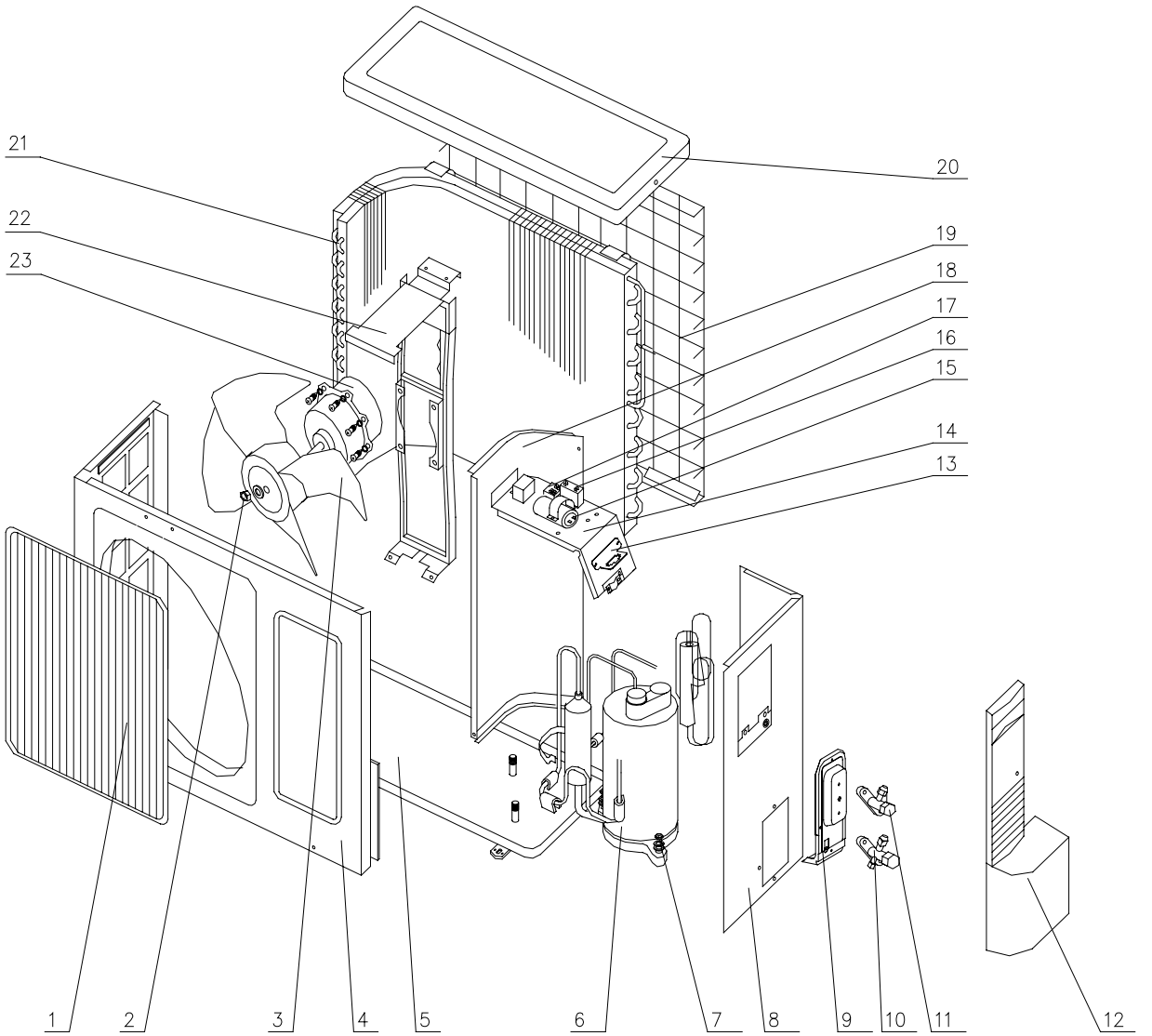


8. 12 Components and Parts List of Indoor Unit

No	Description	Part Code			QTY
		GWHN18B5TD1LA/O	GWHN24B5TD1LA/O	GWHN24B5NK3FA/O	
1	Front Grill	22265251	22265251	01473001	1
2	Front Plate	01433031	01433031	01433011	1
3	Axial Flow Fan	10335257	10335257	10335253	1
4	Motor LW68B	15013062	15013062	15013063	1
5	Motor Support	01703027	01703027	01705253	1
6	Condenser Assy	011030774	011030773	01103820	1
7	Top Cover	01255262	01255262	01255262	1
8	Rear Grill	01473028	01473024	01475252	1
9	Electric Box Cover	01413047	01413075	01415255	1
10	Electric Plate	01405215	01405215	01405103	1
11	Capacitor CBB65 25uF/450V	33000017	33000017	33000039	1
12	Capacitor CBB61 3.5uF/450V	33010010	33010010	33010027	1
13	Terminal Board A	42011113	42011113	42011113	1
14	4-way Valve Case	03023622	030230661	03023465	1
15	Terminal Board 2-8	42011103	42011103	42011103	1
16	4-way Valve Coil	430004002	430004002	430004002	1
17	4-way Valve	43000403	43000403	430004032	1
18	Handle	26235253	26235253	26235253	1
19	Gas Valve Assy	071032071	07105252	07103030	1
20	Liquid Valve Assy	——	07103018	07133132	-
21	Rear Side Plate	01303115	01303115	01305260	1
22	Valve Support	01715001	01715001	01715001	1
23	Capillary Assy	03103255	03103166	03103339	1
24	Compressor AWZ 5522 EXN	00120208	00100526	00103034	1
25	Isolation Washer C	70410523	70410523	70410523	1
26	Clapboard	01233024	01233024	01235253	1
27	Metal Base	012050114	012050114	012052012	1
28	Front Side Plate	01303092	01303092	01305247	1

No	Description	Part Code			QTY
		GWCN24B5TD1CA/O	GWHN18B5TD1CA/O	GWHN24B5TD1CA/O	
1	Front Grill	22265251	22265251	22265251	1
2	Front Plate	01433031	01433031	01433031	1
3	Axial Flow Fan	10335257	10335257	10335257	1
4	Motor FW68B	15013062	15013062	15013062	1
5	Motor Support	01703027	01703027	01703027	1
6	Condenser Assy	011030691	011030774	01103676	1
7	Top Cover	01255262	01255262	01255262	1
8	Rear Grill	01473024	01473024	01473024	1
9	Electric Box Cover	01413075	01413047	01413075	1
10	Electric Plate	01405215	01405215	01405215	1
11	Capacitor CBB65 25uF/450V(440V)	33000017	33000017	33000017	1
12	Capacitor CBB61 3.5uF/450V	33010010	33010010	33010010	1
13	Terminal Board A	42011113	42011113	42011113	1
14	4-way Valve Case	-	03023622	030230661	1
15	Terminal Board 2-8	42011103	42011103	42011103	1
16	4-way Valve Coil	-	430004002	430004002	1
17	4-way Valve	-	43000403	43000403	1
18	Handle	26235253	26235253	26235253	1
19	Gas Valve Assy	07105251	07105252	07105251	1
20	Liquid Valve Assy	07105255	07103018	07105255	1
21	Rear Side Plate	01305025	01305025	01305025	1
22	Valve Support	01715001	01715001	01715001	1
23	Capillary Assy	03003912	03103166	03003912	1
24	Compressor AWZ 5516EXN	00100526	00120208	00100518	1
25	Isolation Washer C	70410523	70410523	70410523	1
26	Clapboard	01233024	01233024	01233024	1
27	Metal Base	012050114	012050114	012050114	1
28	Front Side Plate	01303092	01303092	01303092	1

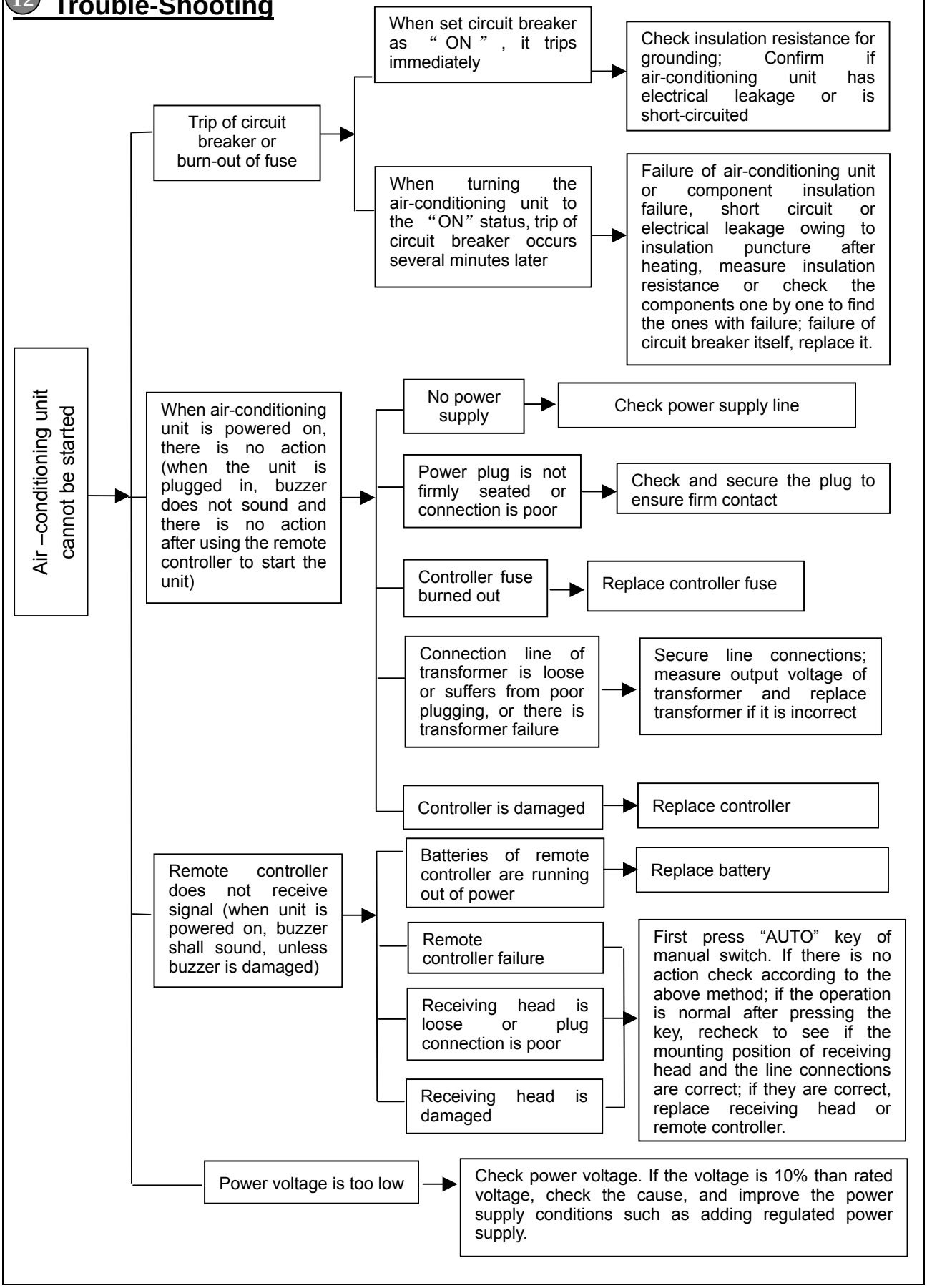
8.13 Exploded View of Components and Parts of Outdoor Unit

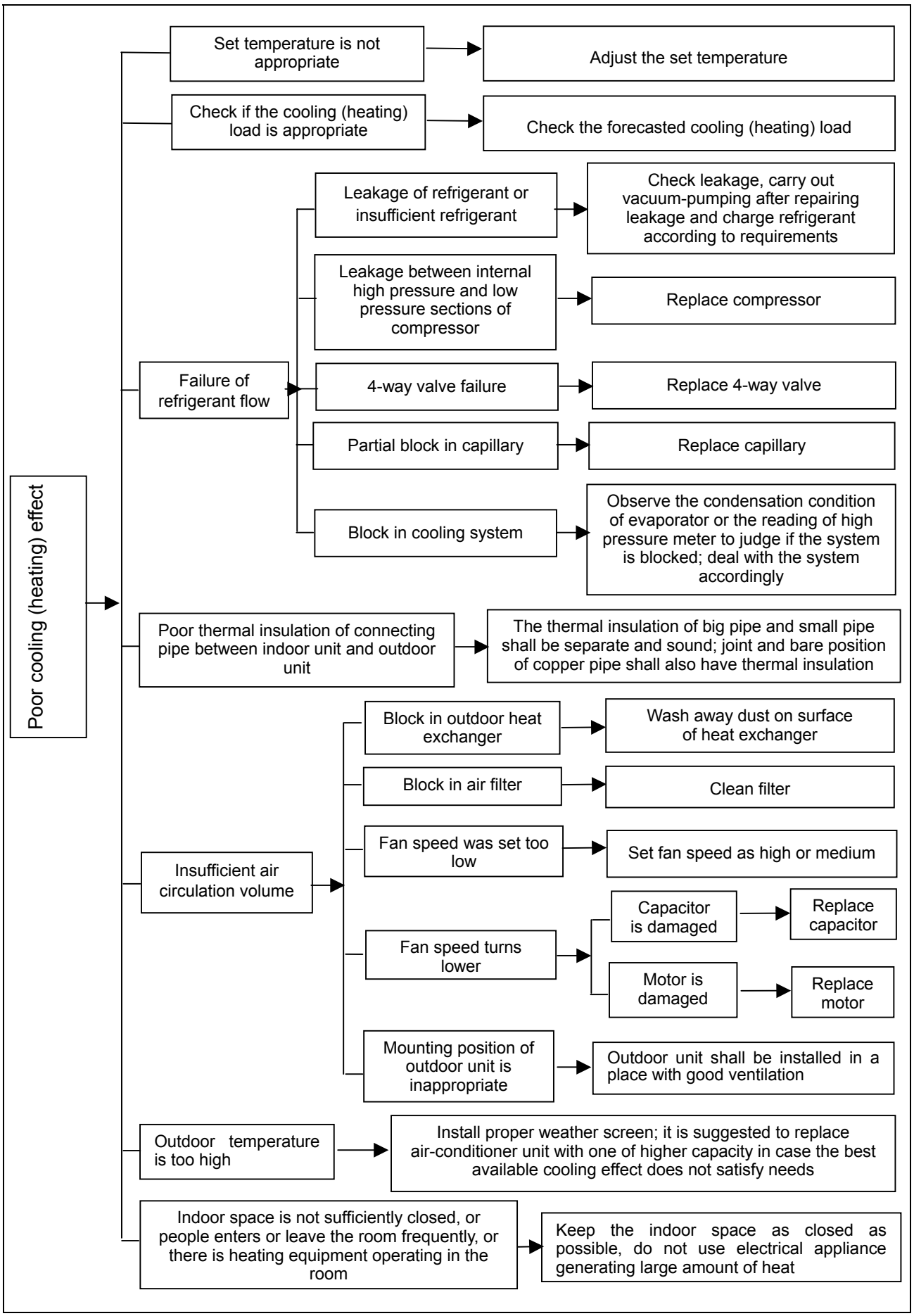


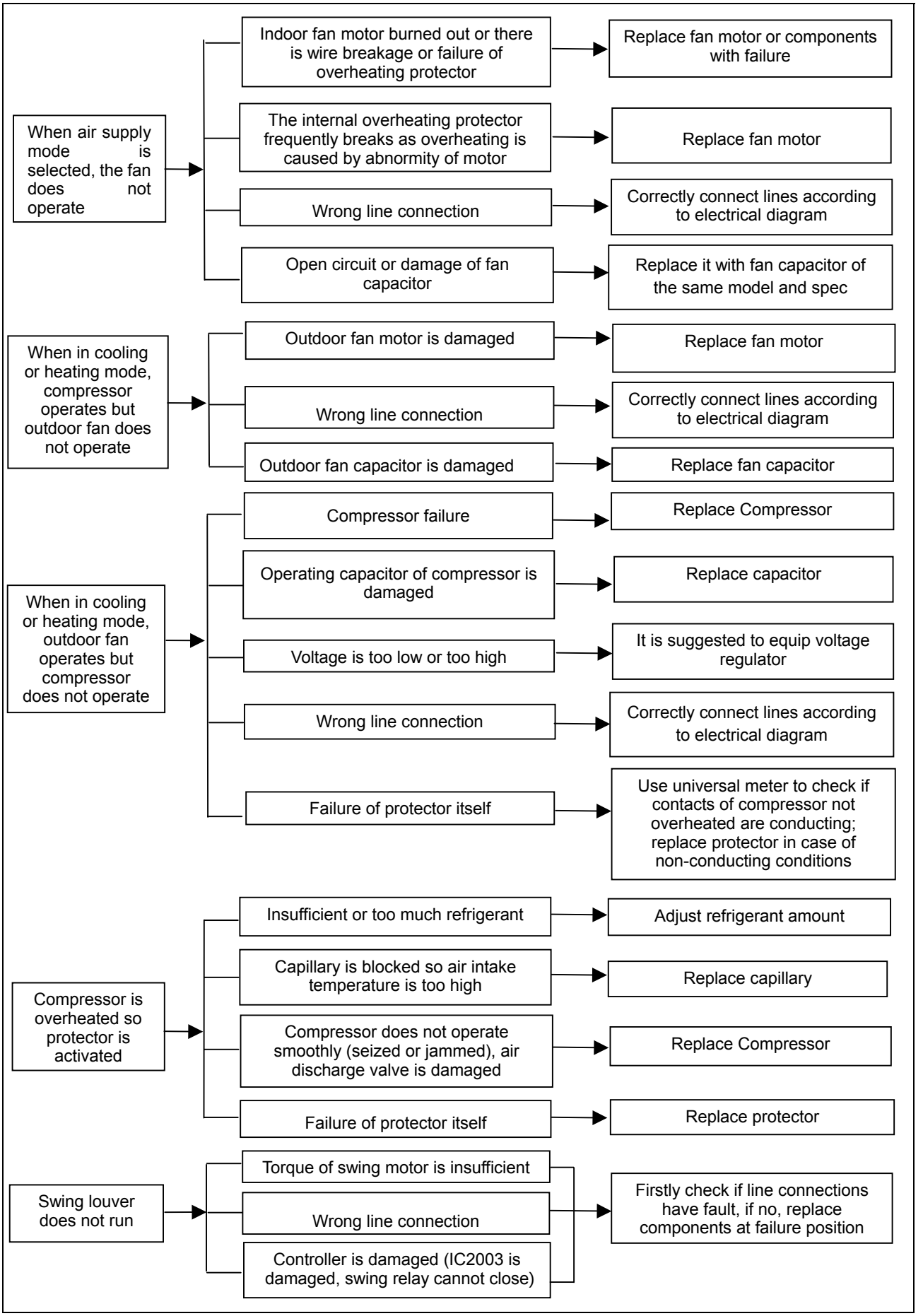
8.14 Components and Parts List of Indoor Unit

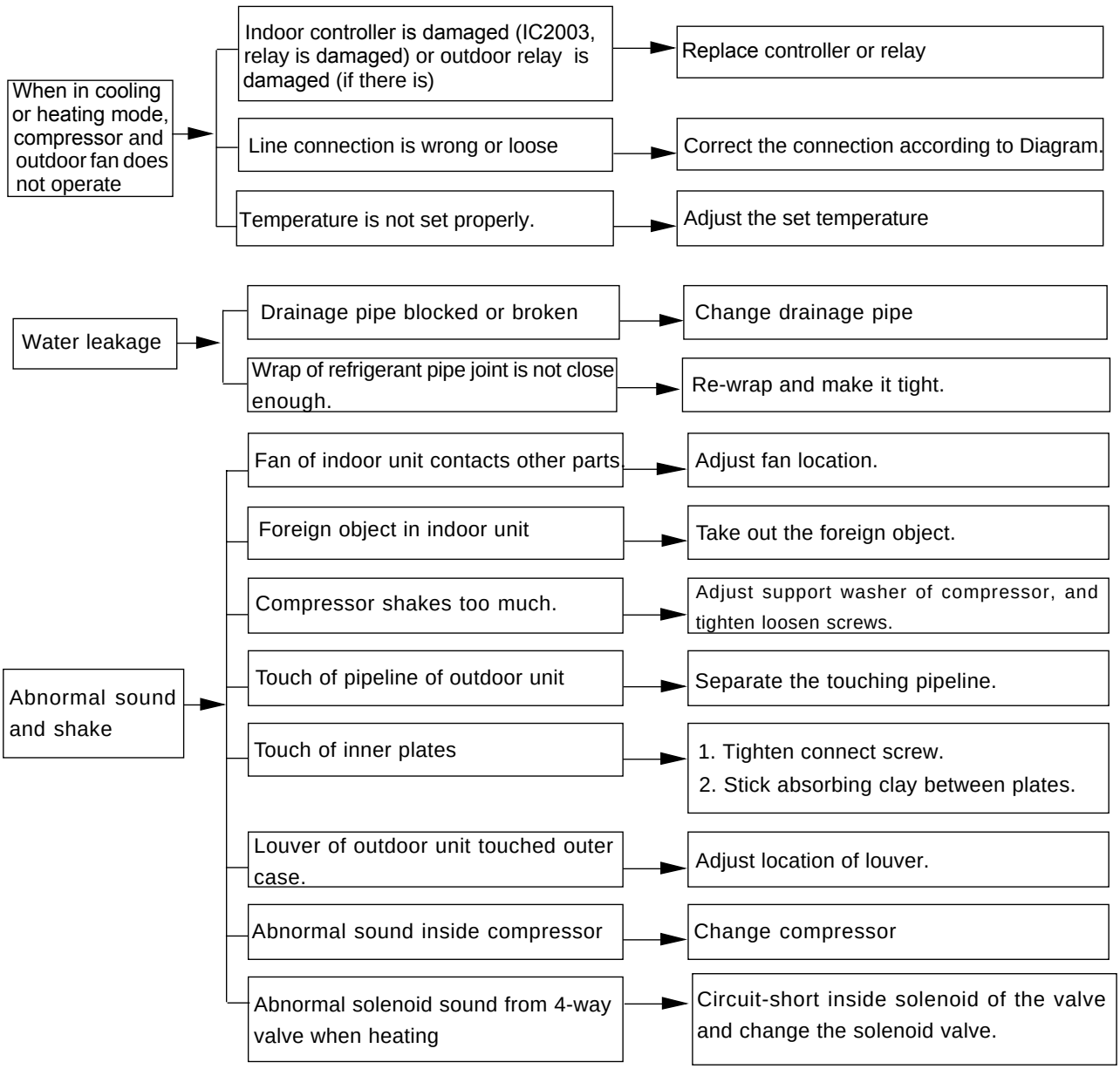
NO	Description	part code	QTY
		GWCN18B5TD1LA/O	
1	Front Grill	22415001	1
2	Nut M4	70310128	1
3	Axial Flow Fan	10335257	1
4	Front Plate	01305015	1
5	Metal Base	01203579P	1
6	Compressor YZG-L66R	00103035	1
7	Nut with Washer M8	70310015	3
8	Right Side Plate Assy	01305013	1
9	Valve Support	01715006	1
10	Gas Valve Assy	071302331	1
11	Liquid Valve Assy	071302201	1
12	Handle	26235254	1
13	Terminal Board	42011113	1
14	Electric Plate Assy	01405039	1
15	Capacitor 50uF/450V	33000001	1
16	Capacitor 2.5uF/450V	33010026	1
17	Terminal Board 2-8	/	-
18	Isolation Sheet Assy	01233035	1
19	Rear Grill	01473005	1
20	Top cover plate	01255001	1
21	Condenser Assy	0110377501	1
22	Motor Support	01705003	1
23	Motor LW68B	15015057	1

12 Trouble-Shooting




Poor cooling (heating) effect
Set temperature is not appropriate
Adjust the set temperature
Check if the cooling (heating) load is appropriate
Check the forecasted cooling (heating) load
Failure of refrigerant flow
Leakage of refrigerant or insufficient refrigerant
Check leakage, carry out vacuum-pumping after repairing leakage and charge refrigerant according to requirements
Leakage between internal high pressure and low pressure sections of compressor
Replace compressor
4-way valve failure
Replace 4-way valve
Partial block in capillary
Replace capillary
Block in cooling system
Observe the condensation condition of evaporator or the reading of high pressure meter to judge if the system is blocked; deal with the system accordingly
Poor thermal insulation of connecting pipe between indoor unit and outdoor unit
The thermal insulation of big pipe and small pipe shall be separate and sound; joint and bare position of copper pipe shall also have thermal insulation
Insufficient air circulation volume
Block in outdoor heat exchanger
Wash away dust on surface of heat exchanger
Block in air filter
Clean filter
Fan speed was set too low
Set fan speed as high or medium
Fan speed turns lower
Capacitor is damaged
Replace capacitor
Motor is damaged
Replace motor
Mounting position of outdoor unit is inappropriate
Outdoor unit shall be installed in a place with good ventilation
Outdoor temperature is too high
Install proper weather screen; it is suggested to replace air-conditioner unit with one of higher capacity in case the best available cooling effect does not satisfy needs
Indoor space is not sufficiently closed, or people enters or leave the room frequently, or there is heating equipment operating in the room
Keep the indoor space as closed as possible, do not use electrical appliance generating large amount of heat


When air supply mode is selected, the fan does not operate
Indoor fan motor burned out or there is wire breakage or failure of overheating protector
Replace fan motor or components with failure
The internal overheating protector frequently breaks as overheating is caused by abnormity of motor
Replace fan motor
Wrong line connection
Correctly connect lines according to electrical diagram
Open circuit or damage of fan capacitor
Replace it with fan capacitor of the same model and spec
When in cooling or heating mode, compressor operates but outdoor fan does not operate
Outdoor fan motor is damaged
Replace fan motor
Wrong line connection
Correctly connect lines according to electrical diagram
Outdoor fan capacitor is damaged
Replace fan capacitor
When in cooling or heating mode, outdoor fan operates but compressor does not operate
Compressor failure
Replace Compressor
Operating capacitor of compressor is damaged
Replace capacitor
Voltage is too low or too high
It is suggested to equip voltage regulator
Wrong line connection
Correctly connect lines according to electrical diagram
Failure of protector itself
Use universal meter to check if contacts of compressor not overheated are conducting; replace protector in case of non-conducting conditions
Compressor is overheated so protector is activated
Insufficient or too much refrigerant
Adjust refrigerant amount
Capillary is blocked so air intake temperature is too high
Replace capillary
Compressor does not operate smoothly (seized or jammed), air discharge valve is damaged
Replace Compressor
Failure of protector itself
Replace protector
Swing louver does not run
Torque of swing motor is insufficient
Wrong line connection
Controller is damaged (IC2003 is damaged, swing relay cannot close)
Firstly check if line connections have fault, if no, replace components at failure position



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