

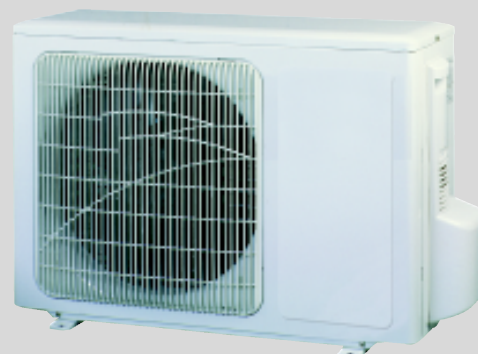
**1 Summary and features**



05K Outdoor unit:



07/09K Outdoor unit:



Model	Remarks
<p>GWC05MA-K1NNA9A                      GWC07MA-K1NNA9A                      GWC09MA-K1NNA9A</p>	<p>1Ph 220-240V~ 50Hz                      R22</p>



09K Outdoor unit:



12K Outdoor unit:



Model	Remarks
<p>GWC09MA-K1NNA1A                      GWH09MA-K1NNA1A                      GWC12MB-K1NNA1A                      GWH12MB-K1NNA1A                      GWC09MA-K1NNA1B                      GWC12MB-K1NNA1B</p>	<p>1Ph 220-240V~ 50Hz                      R22</p>

**A2 Panel**



**A3 Panel**



**A4 Panel**



**A5 Panel**



**A7 Panel**



**A8 Panel**

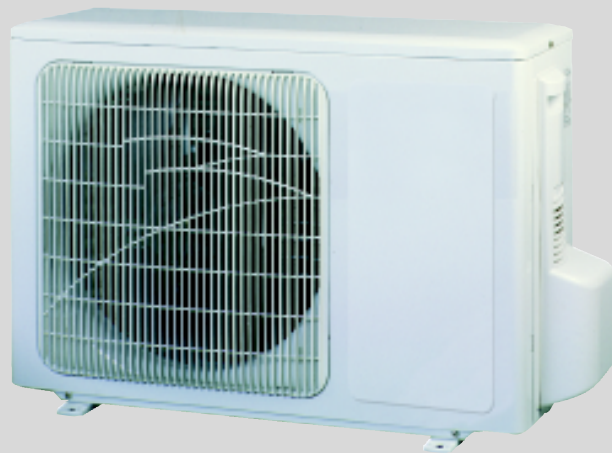


Model	Remarks
GWC09MA-K1NNA2A GWH09MA-K1NNA2A GWC12MB-K1NNA2A	1Ph 220-240V~ 50Hz R22
GWH12MB-K1NNA2A GWC09MA-K1NNA3A GWH09MA-K1NNA3A	
GWC12MB-K1NNA3A GWH12MB-K1NNA3A GWC09MA-K1NNA3B	
GWC12MB-K1NNA3B GWC09MA-K1NNA4A GWH09MA-K1NNA4A	
GWC12MB-K1NNA4A GWH12MB-K1NNA4A GWC09MA-K1NNA5A	
GWH09MA-K1NNA5A GWC12MB-K1NNA5A GWH12MB-K1NNA5A	
GWC09MA-K1NNA8A GWH09MA-K1NNA8A GWC12MB-K1NNA8A	
GWH12MB-K1NNA8A GWC12MB-K1NNA7A GWC12MB-K1NNA7B	
GWC12MB-K1NNA8B GWC09MA-K1NNA5B	

**A4 Panel**



**A5 Panel**



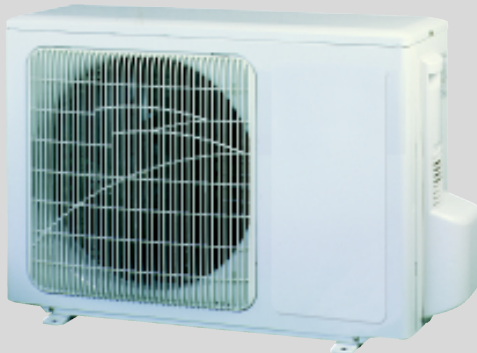
Model	Remarks
<p><b>GWC18MB-K1NNA4A</b> <b>GWH18MB-K1NNA4A</b> <b>GWC18MB-K1NNA5A</b> <b>GWH18MB-K1NNA5A</b></p>	<p><b>1Ph 220-240V~ 50Hz</b> <b>R22</b></p>





**Cool only Outdoor unit**

**Cool and Heat Outdoor unit**



Model	Remarks
<p><b>GWC18MC-K1NNA1A</b>  <b>GWH18MC-K1NNA1A</b></p>	<p><b>1Ph 220-240V~ 50Hz</b>  <b>R22</b></p>

A2 Panel



A3 Panel



A4 Panel



A5 Panel



A6 Panel



A7 Panel



A8 Panel



A9 Panel



Model	Remarks
GWC18MC-K1NNA2A GWH18MC-K1NNA2A	1Ph 220-240V~ 50Hz R22
GWC18MC-K1NNA3A GWH18MC-K1NNA3A	
GWC18MC-K1NNA4A GWH18MC-K1NNA4A	
GWC18MC-K1NNA5A GWH18MC-K1NNA5A	
GWC18MC-K1NNA6A GWH18MC-K1NNA6A	
GWC18MC-K1NNA7A GWH18MC-K1NNA7A	
GWC18MC-K1NNA8A GWH18MC-K1NNA8A	
GWC18MC-K1NNA9A GWH18MC-K1NNA9A	
GWC18MC-K1NNA9A GWH18MC-K1NNA9A	

## 2 Technical specifications

Model	GWC05MA-K1NNA9A	GWC07MA-K1NNA9A	GWC09MA-K1NNA9A	
Function	COOLING	COOLING	COOLING	
Rated Voltage	220-240V~	220-240V~	220-240V~	
Rated Frequency	50Hz	50Hz	50Hz	
Total Capacity (W/Btu/h)	1400W	2000W	2500W	
Power Input (W)	380	550	685	
Rated Input (W)	500	710	890	
Rated Current (A)	1.7	2.6	3.2	
Air Flow Volume (m <sup>3</sup> /h) (H/ML)**	500	500	500	
Dehumidifying Volume (l/h)	0.8	0.8	0.8	
EER / C.O.P (W/W)	3.68/-	3.64/-	3.65/-	
Energy Class	/	/	/	
Indoor unit	Model of Indoor Unit	GWC05MA-K1NNA9A /I	GWC07MA-K1NNA9A /I	GWC09MA-K1NNA9A /I
	Fan Motor Speed (r/min) (H/ML)	1260/1050/920/730	1260/1050/920/730	1260/1050/920/730
	Output of Fan Motor (w)	10	10	10
	Input of Heater (w)	--	--	--
	Fan Motor Capacitor (uF)	1	1	1
	Fan Motor RLA(A)	--	--	--
	Fan Type-Piece	Cross flow fan - 1	Cross flow fan - 1	Cross flow fan - 1
	Diameter-Length (mm)	Φ85X 596	Φ85X 596	Φ85X 596
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)	Φ7	Φ7	Φ7
	Row-Fin Gap(mm)	2.-1.5	2.-1.5	2.-1.5
	Coil length (l)×height (H)×coil width (L)	581X264X25.4	581X264X25.4	581X264X25.4
	Swing Motor Model	MP24AA	MP24AA	MP24AA
	Output of Swing Motor (W)	1.5	1.5	1.5
	Fuse (A)	PCB 3.15A	PCB 3.15A	PCB 3.15A
	Sound Pressure Level dB (A) (H/ML)	37/30/26	37/30/26	37/30/26
	Sound Power Level dB (A) (H/ML)***	--	--	--
	Dimension (W/H/D) ( mm)	790×265×170	790×265×170	790×265×170
	Dimension of Package(W/H/D)(mm)	870X248X355	870X248X355	870X248X355
	Net Weight /Gross Weight (kg)	9/12	9/12	9/12

		GWC05MA-K1NNA9A/O	GWC07MA-K1NNA9A/O	GWC09MA-K1NNA9A/O	
Outdoor unit	Model of Outdoor Unit	GWC05MA-K1NNA9A/O	GWC07MA-K1NNA9A/O	GWC09MA-K1NNA9A/O	
	Compressor Manufacturer/trademark	RECHI PRECISION CO.,LTD	HITACHI	SANYO	
	Compressor Model	39R094AD&5DSB	SD104CV-H3AU	C-1RV132H41BA	
	Compressor Type	revolving	revolving	revolving	
	L.R.A (A)	10.8	13.5	15	
	Compressor RLA(A)	1.7	2.75	3.35	
	Compressor Power Input(W)	365	575	730	
	Overload Protector	MRA12072-12056	BF540-KB	MRA99943-	
	Throttling Method	Capillary	Capillary	Capillary	
	Starting Method	Capacitor	Capacitor	Capacitor	
	Working Temp Range (°C)	18°C≤T≤43°C	18°C≤T≤43°C	18°C≤T≤43°C	
	Condenser	Aluminum fin-copper	Aluminum fin-copper	Aluminum fin-copper	
	Pipe Diameter (mm)	Φ7	Φ7	Φ9.52	
	Rows-Fin Gap(mm)	1-1.4	1-1.4	1-1.6	
	Coil length(l) x height(H) x coil width(L)	680X400X12.7	768X495X12.7	760X508X22	
	Fan Motor Speed (rpm) (H/ML)	950	830	830	
	Output of Fan Motor (W)	20	30	30	
	Fan Motor RLA(A)	0.35	0.37	0.37	
	Fan Motor Capacitor (uF)	1.5	2.5	2.5	
	Air Flow Volume of Outdoor Unit(m <sup>3</sup> /h)	1200	1400	1400	
	Fan Type-Piece	Axial fan -1	Axial fan -1	Axial fan -1	
	Fan Diameter (mm)	Φ324	Φ400	Φ400	
	Defrosting Method	/	/	/	
	Climate Type	T1	T1	T1	
	Isolation	I	I	I	
	Moisture Protection	IP24	IP24	IP24	
	Permissible Excessive Operating Pressure for the	2.5	2.5	2.5	
	Permissible Excessive Operating Pressure for the Suction Side(MPa)	0.6	0.6	0.6	
	Sound Pressure Level dB (A)	50	50	50	
	Sound Power Level dB (A)	--	--	--	
Dimension (W/H/D) (mm)	720X430X320	848X540X320	848X540X320		
Dimension of Package (L/W/H)(mm)	765X350X475	878X580X360	878X580X360		
Net Weight/Gross Weight (kg)	21/24	26/30	29/33		
Refrigerant Charge (kg)	R22/0.43	R22/0.5	R22/0.75		
Connecti on Pipe	Length (m)	4	4	4	
	Gas additional charge(g/m)	30	30	30	
	Outer Diameter	Liquid Pipe (mm)	Φ6(1/4")	Φ6(1/4")	Φ6(1/4")
		Gas Pipe (mm)	Φ9.52(3/8")	Φ9.52(3/8")	Φ9.52(3/8")
	Max Distance	Height (m)	5	5	5
Length (m)		10	10	10	
The above data is subject to change without notice. Please refer to the nameplate of the unit.					

Model		GWC09MA-K1NNA*A	GWH09MA-K1NNA*A	
Function		COOLING	COOLING	HEATING
Rated Voltage		220-240V~	220-240V~	
Rated Frequency		50Hz	50Hz	
Total Capacity (W/Btu/h)		2500	2500	2800
Power Input (W)		925	925	900
Rated Input (W)		1200	1200	1200
Rated Current (A)		5.45	5.45	5.45
Air Flow Volume (m <sup>3</sup> /h) (H/ML)**		500	500	
Dehumidifying Volume (l/h)		0.8	0.8	
EER / C.O.P (W/W)		2.7	2.7	
Energy Class		/	/	
Indoor unit	Model of Indoor Unit	GWC09MA-K1NNA*A/I	GWH09MA-K1NNA*A/I	
	Fan Motor Speed (r/min) (H/ML)	1260/1050/920/730	1260/1050/920/730	1320/1200/1100/950
	Output of Fan Motor (w)	10	10	
	Input of Heater (w)	--	—	
	Fan Motor Capacitor (uF)	1	1	
	Fan Motor RLA(A)	--	—	
	Fan Type-Piece	Cross flow fan - 1	Cross flow fan - 1	
	Diameter-Length (mm)	Φ85X 596	Φ85X 596	
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube	
	Pipe Diameter (mm)	Φ7	Φ7	
	Row-Fin Gap(mm)	2.-1.5	2.-1.5	
	Coil length (l)xheight (H)xcoil width (L)	581x264x25.4	581x264x25.4	
	Swing Motor Model	MP24AA	MP24AA	
	Output of Swing Motor (W)	1.5	1.5	
	Fuse (A)	PCB 3.15A Transformer 0.2A	PCB 3.15A Transformer 0.2A	
	Sound Pressure Level dB (A) (H/ML)	37/30/26	37/30/26	37/33/29
	Sound Power Level dB (A) (H/ML)***	--	—	
	Dimension (W/H/D) ( mm)	790x265x170	790x265x170	
	Dimension of Package(W/H/D)(mm)	870x248x355	870x248x355	
	Net Weight /Gross Weight (kg)	9/12	9/12	

Outdoor unit	Model of Outdoor Unit		GWC09MA-K1NNA3A/O	GWH09MA-K1NNA3A/O
	Compressor Manufacturer/trademark		LANDA	LANDA
	Compressor Model		QX-B16A030	QX-B16A030
	Compressor Type		revolving	revolving
	L.R.A. (A)		21	21
	Compressor RLA(A)		4.1	4.1
	Compressor Power Input(W)		880	880
	Overload Protector		Internal	Internal
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (°C)		-7°C≤T≤48°C	-7°C≤T≤48°C
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ7	Φ9.52
	Rows-Fin Gap(mm)		1-1.4	1-1.4
	Coil length(l) x height(H) x coil width(L)		680X400X12.7	680X406X22
	Fan Motor Speed (rpm) (H/ML)		950	950
	Output of Fan Motor (W)		20	20
	Fan Motor RLA(A)		0.13	0.13
	Fan Motor Capacitor (uF)		1.5	1.5
	Air Flow Volume of Outdoor Unit		2500	2500
	Fan Type-Piece		Axial fan -1	Axial fan -1
	Fan Diameter (mm)		Φ324	Φ324
	Defrosting Method		/	/
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	2.5
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	0.6
	Sound Pressure Level dB (A) (H/ML)		50	50
	Sound Power Level dB (A) (H/ML)		--	--
Dimension (W/H/D) (mm)		720X430X320	720X430X320	
Dimension of Package (L/W/H)(mm)		765X350X490	765X350X490	
Net Weight/Gross Weight (kg)		25/29	25/29	
Refrigerant Charge (kg)		R22/0.52	R22/0.63	
Connecti on Pipe	Length (m)		4	4
	Gas additional charge(g/m)		30	30
	Outer Diameter	Liquid Pipe (mm)	Φ6(1/4")	Φ6(1/4")
		Gas Pipe (mm)	Φ9.52(3/8")	Φ9.52(3/8")
	Max Distance	Height (m)	5	5
Length (m)		10	10	
The above data is subject to change without notice. Please refer to the nameplate of the unit.				

Model	GWC09MA-K1NNA1B、GWC09MA-K1NNA3B、GWC09MA-K1NNA8A	
Function	COOLING	
Rated Voltage	220-240V~	
Rated Frequency	50Hz	
Total Capacity (W/Btu/h)	9000 Btu/h	
Power Input (W)	798W	
Rated Input (W)	1080W	
Rated Current (A)	5	
Air Flow Volume (m <sup>3</sup> /h) (H/ML)**	500(H)	
Dehumidifying Volume (l/h)	0.8	
EER / C.O.P (W/W)	3.21/3.3	
Energy Class	A	
Indoor unit	Model of Indoor Unit	GWC09MA-K1NNA1B/I、GWC09MA-K1NNA3B/I、GWC09MA-K1NNA8A/I
	Fan Motor Speed (r/min) (H/ML)	Cooling:1260/1050/920/730
	Output of Fan Motor (w)	10
	Input of Heater (w)	/
	Fan Motor Capacitor (uF)	1
	Fan Motor RLA(A)	0.1
	Fan Type-Piece	Cross flow fan – 1
	Diameter-Length (mm)	φ85×596
	Evaporator	Aluminum fin-copper tube
	Pipe Diameter (mm)	Φ7
	Row-Fin Gap(mm)	2-1.5
	Coil length (l)×height (H)×coil width (L)	581X264X25.4
	Swing Motor Model	MP24AA
	Output of Swing Motor (W)	1.5
	Fuse (A)	PCB 3.15A Transformer 0.2A
	Sound Pressure Level dB (A) (H/ML)	38/36/33
	Sound Power Level dB (A) (H/ML)***	48/46/43
	Dimension (W/H/D) (mm)	790×265×170
	Dimension of Package(W/H/D)(mm)	870×248×355
	Net Weight /Gross Weight (kg)	9/12

Outdoor unit	Model of Outdoor Unit		GWC09MA-K1NNA1B/O
	Compressor Manufacturer/trademark		MATSUSHITA-WANBAO
	Compressor Model		2P16S225ANC
	Compressor Type		ROTARY
	L.R.A. (A)		18
	Compressor RLA(A)		3.9
	Compressor Power Input(W)		840
	Overload Protector		MRA99200
	Throttling Method		Capillary
	Starting Method		Capacitor
	Working Temp Range (°C)		16-30°C/-7-48°C
	Condenser		Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ7.94
	Rows-Fin Gap(mm)		2-1.4
	Coil length(l) x height(H) x coil width(L)		616x210x508
	Fan Motor Speed (rpm) (H/ML)		850
	Output of Fan Motor (W)		30
	Fan Motor RLA(A)		0.23
	Fan Motor Capacitor (uF)		2
	Air Flow Volume of Outdoor Unit		1500
	Fan Type-Piece		Axial fan -1
	Fan Diameter (mm)		Φ400
	Defrosting Method		/
	Climate Type		T1
	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/ML)		50	
Sound Power Level dB (A) (H/ML)		60	
Dimension (W/H/D) (mm)		848x540x320	
Dimension of Package (L/W/H)(mm)		878x360x580	
Net Weight /Gross Weight (kg)		34/37	
Refrigerant Charge (kg)		R22/1020	
Connecti on Pipe	Length (m)		4
	Gas additional charge(g/m)		30
	Outer Diameter	Liquid Pipe (mm)	Φ6(1/4")
		Gas Pipe (mm)	Φ9.52(3/8")
	Max Distance	Height (m)	10
Length (m)		20	
The above data is subject to change without notice. Please refer to the nameplate of the unit.			



Model	GWC12MB-K1NNA*A	GWH12MB-K1NNA*A	
Function	COOLING	COOLING      HEATING	
Rated Voltage	220-240V~	220-240V~	
Rated Frequency	50Hz	50Hz	
Total Capacity (W/Btu/h)	3516(12000)	3516(12000)      3750(12800)	
Power Input (W)	1290	1290      1130	
Rated Input (W)	1600	1600      1600	
Rated Current (A)	8.6	8.6      8.6	
Air Flow Volume (m <sup>3</sup> /h) (H/ML)**	(630)/530/430/330	(630)/530/430/330	
Dehumidifying Volume (l/h)	1.2	1.2	
EER / C.O.P (W/W)	2.73	2.73	
Energy Class	1星	1星	
Indoor unit	Model of Indoor Unit	GWC12MB-K1NNA*A/I	GWH12MB-K1NNA*A/I
	Fan Motor Speed (r/min) (H/ML)	(1260)/1070/900/730	(1260)/1070/900/730
	Output of Fan Motor (w)	20	20
	Input of Heater (w)	/	/
	Fan Motor Capacitor (uF)	1	1
	Fan Motor RLA(A)	0.254	0.254
	Fan Type-Piece	Cross flow fan - 1	Cross flow fan - 1
	Diameter-Length (mm)	φ92 X 645	φ92 X 645
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)	7	7
	Row-Fin Gap(mm)	2-1.4	2-1.4
	Coil length (l)×height (H)×coil width (L)	645X25.4X267	645X25.4X267
	Swing Motor Model	MP24AA	MP24AA
	Output of Swing Motor (W)	2.4	2.4
	Fuse (A)	PCB 3.15A Transformer 0.2A	PCB 3.15A Transformer 0.2A
	Sound Pressure Level dB (A) (H/ML)	(41)38/34/29	(41)38/34/29
	Sound Power Level dB (A) (H/ML)***	(51)48/44/39	(51)48/44/39
	Dimension (W/H/D) ( mm)	845×275×180	845×275×180
	Dimension of Package(W/H/D)(mm)	915×255×355	915×255×355
	Net Weight /Gross Weight (kg)	10/13	10/13

Outdoor unit	Model of Outdoor Unit		GWC12MB-K1NNA3A/O	GWH12MB-K1NNA3A/O
	Compressor Manufacturer/trademark		LAMDA	LAMDA
	Compressor Model		QX-21E030gB	QX-21E030gB
	Compressor Type		Rotary	Rotary
	L.R.A. (A)		30	30
	Compressor RLA(A)		5.7	5.7
	Compressor Power Input(W)		1170	1170
	Overload Protector		B250-150A-141E or HPA-730 or UP3QE0594-T56	
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (°C)		-7~43	-7~43
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		7	7.94
	Rows-Fin Gap(mm)		1-1.4	1-1.4
	Coil length(l) x height(H) x coil width(L)		731×495×12.7	749×506×19.05
	Fan Motor Speed (rpm) (H/ML)		850	850
	Output of Fan Motor (W)		30	30
	Fan Motor RLA(A)		0.35	0.35
	Fan Motor Capacitor (uF)		2	2
	Air Flow Volume of Outdoor Unit		1700	1700
	Fan Type-Piece		Axial fan -1	Axial fan -1
	Fan Diameter (mm)		400	400
	Defrosting Method		Auto defrost	Auto defrost
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	2.5
Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	0.6	
Sound Pressure Level dB (A) (H/ML)		51	51	
Sound Power Level dB (A) (H/ML)		61	61	
Dimension (W/H/D) (mm)		848×540×320	848×540×320	
Dimension of Package (L/W/H)(mm)		878×360×590	878×360×590	
Net Weight/Gross Weight (kg)		35/40	35/40	
Refrigerant Charge (kg)		R22/0.60	R22/0.80	
Connecti on Pipe	Length (m)		5	5
	Gas additional charge(g/m)		25	25
	Outer Diameter	Liquid Pipe (mm)	Φ6(1/4")	Φ6(1/4")
		Gas Pipe (mm)	Φ12(1/2")	Φ12(1/2")
	Max Distance	Height (m)	5	5
Length (m)		10	10	

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

Model	GWC12MB-K1NNA*B	
Function	COOLING	
Rated Voltage	220-240V~	
Rated Frequency	50Hz	
Total Capacity (W/Btu/h)	3516W(12000Btu/h)	
Power Input (W)	1065	
Rated Input (W)	1450	
Rated Current (A)	8	
Air Flow Volume (m <sup>3</sup> /h) (H/ML)**	(630)/530/430/330	
Dehumidifying Volume (l/h)	1.2	
EER / C.O.P (W/W)	3.3	
Energy Class	5星	
Indoor unit	Model of Indoor Unit	GWC12MB-K1NNA*B/I
	Fan Motor Speed (r/min) (H/ML)	(1260)/1070/900/730
	Output of Fan Motor (w)	20
	Input of Heater (w)	/
	Fan Motor Capacitor (uF)	1
	Fan Motor RLA(A)	0.254
	Fan Type-Piece	Cross flow fan - 1
	Diameter-Length (mm)	φ92 X 645
	Evaporator	Aluminum fin-copper tube
	Pipe Diameter (mm)	7
	Row-Fin Gap(mm)	2-1.4
	Coil length (l)×height (H)×coil width (L)	645X25.4X267
	Swing Motor Model	MP24AA
	Output of Swing Motor (W)	2.4
	Fuse (A)	PCB 3.15A Transformer 0.2A
	Sound Pressure Level dB (A) (H/ML)	(41)38/34/29
	Sound Power Level dB (A) (H/ML)***	(51)48/44/39
	Dimension (W/H/D) ( mm)	845×275×180
	Dimension of Package(W/H/D)(mm)	915×255×355
	Net Weight /Gross Weight (kg)	10/13

Outdoor unit	Model of Outdoor Unit		GWC12MB-K1NNA1B/O
	Compressor Manufacturer/trademark		MGC
	Compressor Model		RS211VSDC
	Compressor Type		Rotary
	L.R.A (A)		23/25
	Compressor RLA(A)		5.1/5.0
	Compressor Power Input(W)		1110/1150
	Overload Protector		Internal
	Throttling Method		Capillary
	Starting Method		Capacitor
	Working Temp Range (°C)		-7~48
	Condenser		Aluminum fin-copper tube
	Pipe Diameter (mm)		9.52
	Rows-Fin Gap(mm)		2-1.4
	Coil length(l) x height(H) x coil width(L)		731x495x12.7
	Fan Motor Speed (rpm) (H/ML)		850
	Output of Fan Motor (W)		30
	Fan Motor RLA(A)		0.35
	Fan Motor Capacitor (uF)		2
	Air Flow Volume of Outdoor Unit		1700
	Fan Type-Piece		Axial fan -1
	Fan Diameter (mm)		400
	Defrosting Method		Auto defrost
	Climate Type		T1
	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/ML)		51	
Sound Power Level dB (A) (H/ML)		61	
Dimension (W/H/D) (mm)		848x540x320	
Dimension of Package (L/W/H)(mm)		878x360x580	
Net Weight /Gross Weight (kg)		38/43	
Refrigerant Charge (kg)		R22/1.2	
Connecti on Pipe	Length (m)		5
	Gas additional charge(g/m)		25
	Outer Diameter	Liquid Pipe (mm)	Φ6(1/4")
		Gas Pipe (mm)	Φ12(1/2")
	Max Distance	Height (m)	5
Length (m)		10	
The above data is subject to change without notice. Please refer to the nameplate of the unit.			

Model	GWC18MB-K1NNA5A	GWH18MB-K1NNA5A	
Function	COOLING	COOLING	HEATING
Rated Voltage	220-240V	220-240V	
Rated Frequency	50HZ	50HZ	
Total Capacity (W/Btu/h)	4500	4500	4800
Power Input (W)	1820	1800	1800
Rated Input (W)	2470	2350	2400
Rated Current (A)	12.01	12.01	10.03
Air Flow Volume (m <sup>3</sup> /h) (H/ML)**	650	650	
Dehumidifying Volume (l/h)	/	/	
EER / C.O.P (W/W)	2.61	2.61	
Energy Class	E	E	
Indoor unit	Model of Indoor Unit	GWH18MB-K1NNA5A/I	
	Fan Motor Speed (r/min) (H/ML)	1350/1250/1100/950	1350/1250/1100/950/50   1350/1250/1100/1000
	Output of Fan Motor (w)	20	20
	Input of Heater (w)	/	/
	Fan Motor Capacitor (uF)	1	1
	Fan Motor RLA(A)	0.254	0.254
	Fan Type-Piece	Cross flow fan - 1	Cross flow fan - 1
	Diameter-Length (mm)	φ108 X 954	φ108 X 954
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)	φ7	φ7
	Row-Fin Gap(mm)	2-1.4	2-1.4
	Coil length (l)×height (H)×coil width (L)	645X25.4X267	645X25.4X267
	Swing Motor Model	MP24AA	MP24AA
	Output of Swing Motor (W)	2.4	2.4
	Fuse (A)	PCB 3.15A Transformer 0.2A	PCB 3.15A Transformer 0.2A
	Sound Pressure Level dB (A) (H/ML)	50/46/42/38	50/46/42/38
	Sound Power Level dB (A) (H/ML)***	60/56/52/48	60/56/52/48
	Dimension (W/H/D) ( mm)	845×275×180	845×275×180
	Dimension of Package(W/H/D)(mm)	915×255×355	915×255×355
	Net Weight /Gross Weight (kg)	10/13	10/13

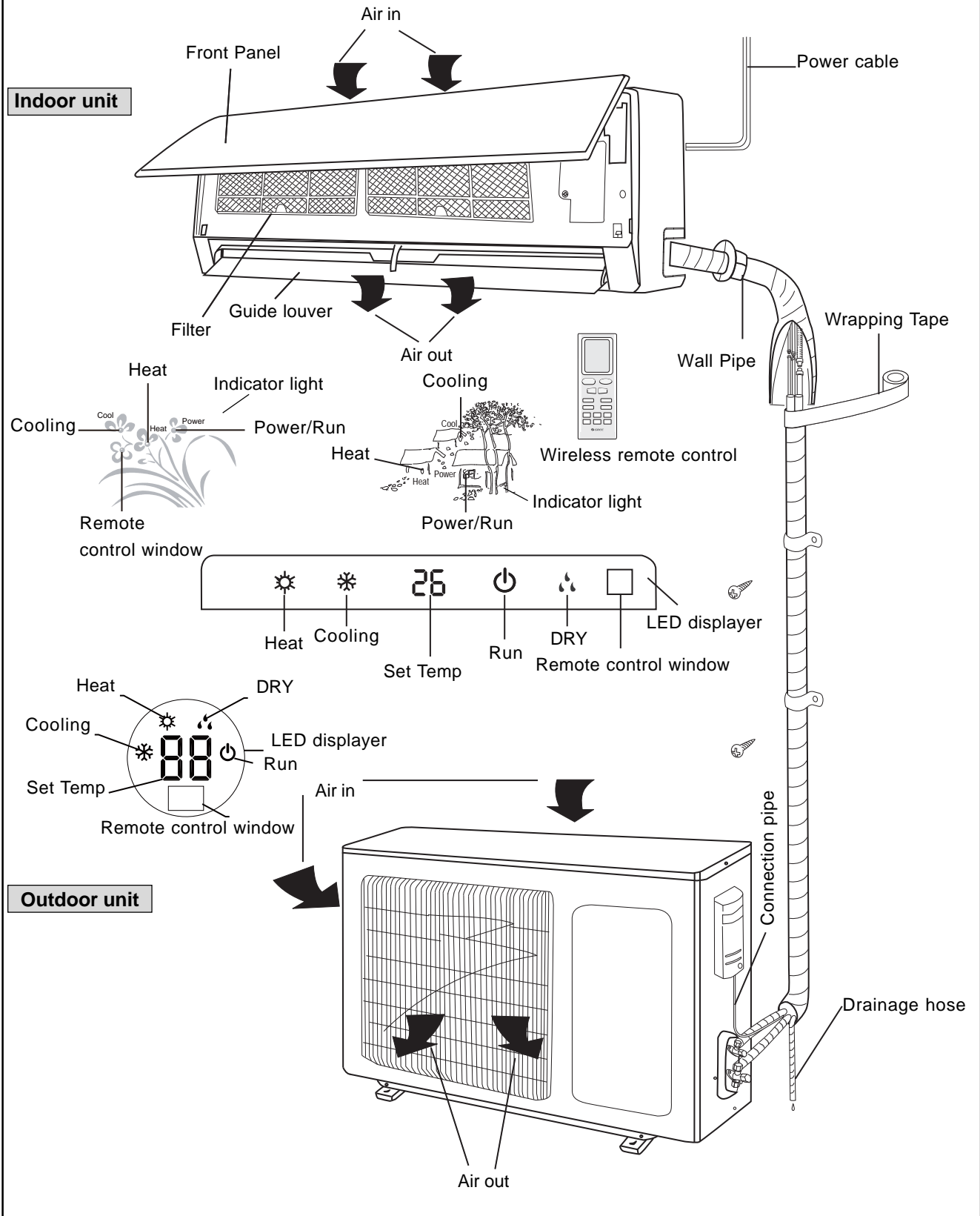
Outdoor unit	Model of Outdoor Unit		GWC18MB-K1NNA3A/O	GWH18MB-K1NNA3A/O
	Compressor Manufacturer/trademark		LAMDA	LAMDA
	Compressor Model		QX-34F050gA	QX-34F050gA
	Compressor Type		Rotary	Rotary
	L.R.A (A)		44	44
	Compressor RLA(A)		8.4	8.4
	Compressor Power Input(W)		1820	1820
	Overload Protector		Inset	Inset
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (°C)		-7~43	-7~43
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		7	7
	Rows-Fin Gap(mm)		2-1.4	2-1.6
	Coil length(l) x height(H) x coil width(L)		782X495X25.4	782X495X25.4
	Fan Motor Speed (rpm) (H/ML)		850±20	860±20
	Output of Fan Motor (W)		30W	35W
	Fan Motor RLA(A)		0.35	0.37
	Fan Motor Capacitor (uF)		2	2.5
	Air Flow Volume of Outdoor Unit(m <sup>3</sup> /h)		/	/
	Fan Type-Piece		Axial fan -1	Axial fan -1
	Fan Diameter (mm)		∅ 400	∅ 400
	Defrosting Method		Auto defrost	Auto defrost
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	2.5
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	0.6
	Sound Pressure Level dB (A) (H/ML)		57	57
	Sound Power Level dB (A) (H/ML)		67	67
Dimension (W/H/D) (mm)		848x540x320	848x540x320	
Dimension of Package (L/W/H)(mm)		878x360x580	878x360x580	
Net Weight /Gross Weight (kg)		41/46	43/48	
Refrigerant Charge (kg)		R22/1.0	R22/1.04	
Connecti on Pipe	Length (m)		5	5
	Gas additional charge(g/m)		30	30
	Outer Diameter	Liquid Pipe (mm)	Φ6(1/4")	Φ6(1/4")
		Gas Pipe (mm)	Φ12(1/2")	Φ12(1/2")
	Max Distance	Height (m)	5	5
Length (m)		10	10	
The above data is subject to change without notice. Please refer to the nameplate of the unit.				

Model	GWC18MC-K1NNA*A	GWH18MC-K1NNA*A	
Function	COOLING	COOLING	HEATING
Rated Voltage	220-240V~	220-240V~	
Rated Frequency	50Hz	50Hz	
Total Capacity (W/Btu/h)	5300	5300	5700
Power Input (W)	1900	1900	1800
Rated Input (W)	2700	2700	2600
Rated Current (A)	10.9	10.9	10.4
Air Flow Volume (m <sup>3</sup> /h) (H/M/L)**	850/780/650/550	850/780/650/550	
Dehumidifying Volume (l/h)	3	3	
EER / C.O.P (W/W)	2.78	2.78	
Energy Class	C	C	
Indoor unit	Model of Indoor Unit	GWC18MC-K1NNA*A/I	GWH18MC-K1NNA*A/I
	Fan Motor Speed (r/min) (H/M/L)	1350/1200/1050/900	1350/1200/1050/900
	Output of Fan Motor (w)	20	20
	Input of Heater (w)	/	/
	Fan Motor Capacitor (uF)	1	1
	Fan Motor RLA(A)	0.25	0.25
	Fan Type-Piece	Cross flow fan - 1	Cross flow fan - 1
	Diameter-Length (mm)	φ98 X 710	φ98 X 710
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)	Φ7	Φ7
	Row-Fin Gap(mm)	2-1.4	2-1.4
	Coil length (l)xheight (H)xcoil width (L)	715X304.8X25.4	715X304.8X25.4
	Swing Motor Model	MP28VB	MP28VB
	Output of Swing Motor (W)	2.5	2.5
	Fuse (A)	PCB 3.15A Transformer 0.2A	PCB 3.15A Transformer 0.2A
	Sound Pressure Level dB (A) (H/M/L)	47/44/41/37	47/44/41/37
	Sound Power Level dB (A) (H/M/L)***	57/54/51/47	57/54/51/47
	Dimension (W/H/D) ( mm)	940X200X298	940X200X298
	Dimension of Package(W/H/D)(mm)	1020X285X380	1020X285X380
	Net Weight /Gross Weight (kg)	13/18	13/18

Outdoor unit	Model of Outdoor Unit		GWC18MC-K1NNA1A/O GWC18MC-K1NNA2A/O GWC18MC-K1NNA3A/O GWC18MC-K1NNA4A/O	GWH18MC-K1NNA1A/O GWH18MC-K1NNA2A/O GWH18MC-K1NNA3A/O GWH18MC-K1NNA4A/O
	Compressor Manufacturer/trademark		MELANDA REFRIGERATION CO., LTD	
	Compressor Model		QX-34F050gA	QX-34F050gA
	Compressor Type		rotary compressor	rotary compressor
	L.R.A. (A)		44	44
	Compressor RLA(A)		8.4	8.4
	Compressor Power Input(W)		1820	1820
	Overload Protector		Built-in	Built-in
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (°C)		-7°C ≤ T ≤ 43°C	-7°C ≤ T ≤ 43°C
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ7	Φ9.52
	Rows-Fin Gap(mm)		2-1.4	1-1.6
	Coil length(L) x height(H) x coil width(L)		815.7×495.3×25.4	806×660×22
	Fan Motor Speed (rpm) (H/M/L)		900	860
	Output of Fan Motor (W)		48	48
	Fan Motor RLA(A)		0.4	0.62
	Fan Motor Capacitor (uF)		2.5	3.5
	Air Flow Volume of Outdoor Unit(m <sup>3</sup> /h)		2000	2790
	Fan Type-Piece		Axial fan -1	Axial fan -1
	Fan Diameter (mm)		Φ400	Φ473
	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)		56	56
	Sound Power Level dB (A) (H/M/L)		66	66
Dimension (W/H/D) (mm)		848X320X540	913X378X680	
Dimension of Package (L/W/H)(mm)		878X360X580	994X428X725	
Net Weight /Gross Weight (kg)		45/50	46/50	
Refrigerant Charge (kg)		R22/1.2	R22/1.3	
Connecti on Pipe	Length (m)		4	4
	Gas additional charge(g/m)		50	50
	Outer Diameter	Liquid Pipe (mm)	Φ6	Φ6
		Gas Pipe (mm)	Φ12	Φ12
	Max Distance	Height (m)	5	5
Length (m)		10	10	
The above data is subject to change without notice. Please refer to the nameplate of the unit.				

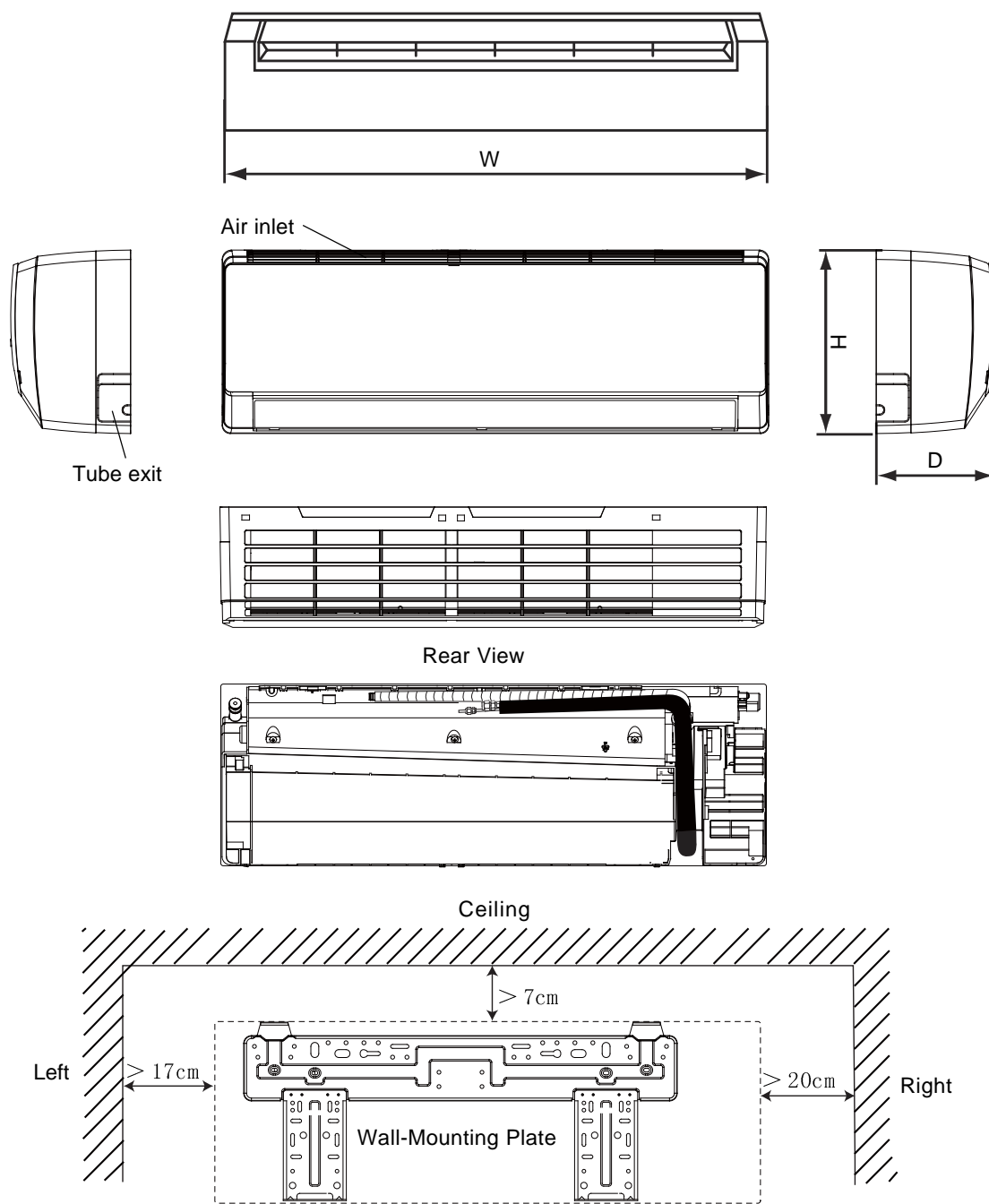


## 3 Part name



## 4 Outline and installation dimension

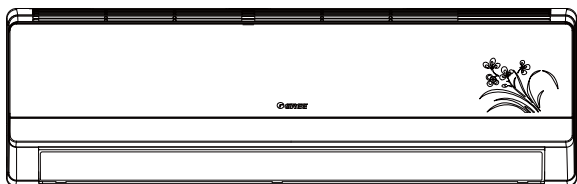
### 4.1 Outline and installation dimensions of indoor unit



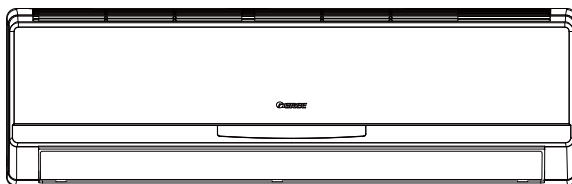
MODEL	W(mm)	H(mm)	D(mm)
GWC05MA-K1NNA9A/I GWC07MA-K1NNA9A/I 09K	790	265	170
12K/18K(MB)	845	275	180
18K(MC)	940	298	200

各面板对应正视图:

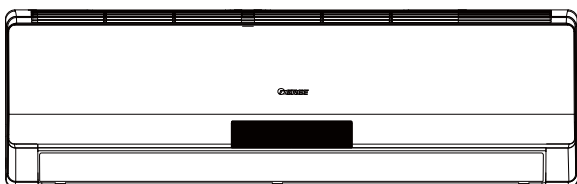
**A1 Panel**



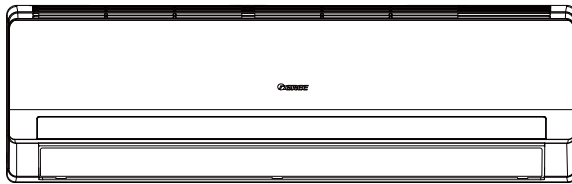
**A2 Panel**



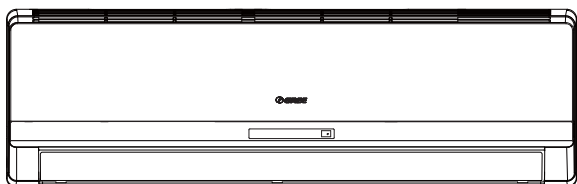
**A3 Panel**



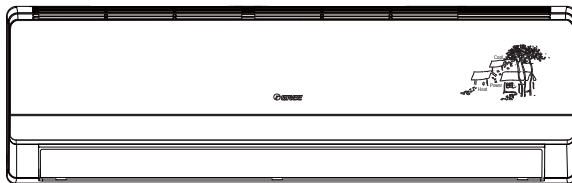
**A4 Panel**



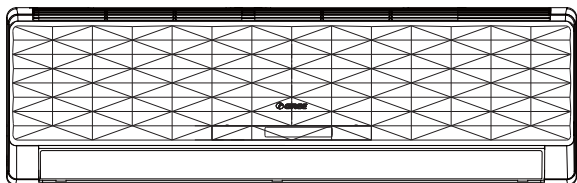
**A5 Panel**



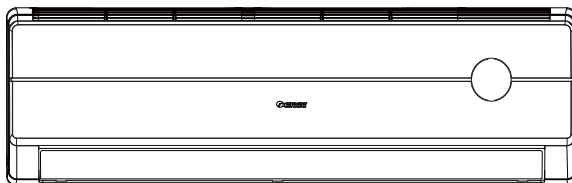
**A6 Panel**



**A7 Panel**



**A8 Panel**

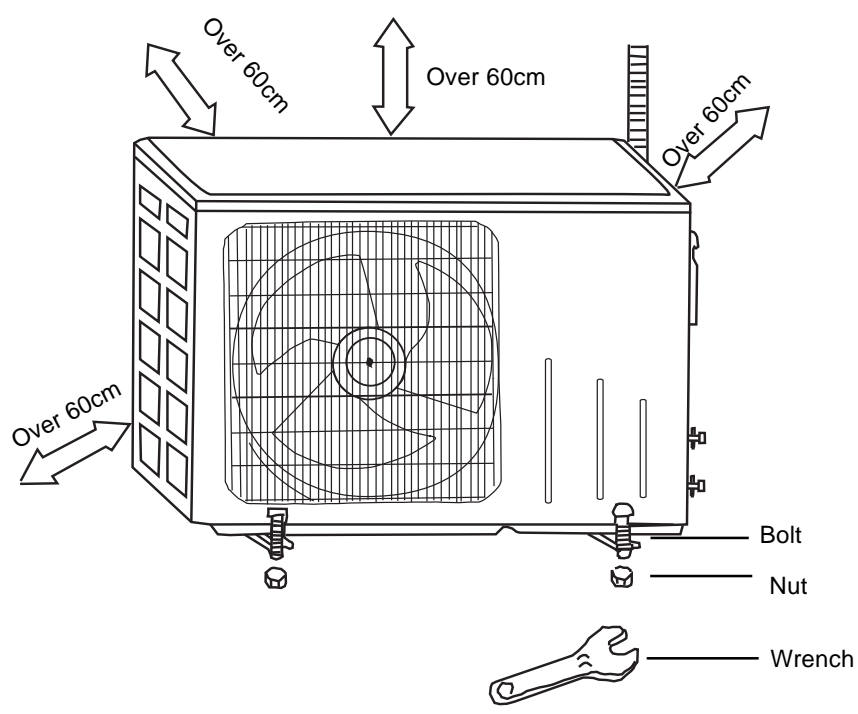
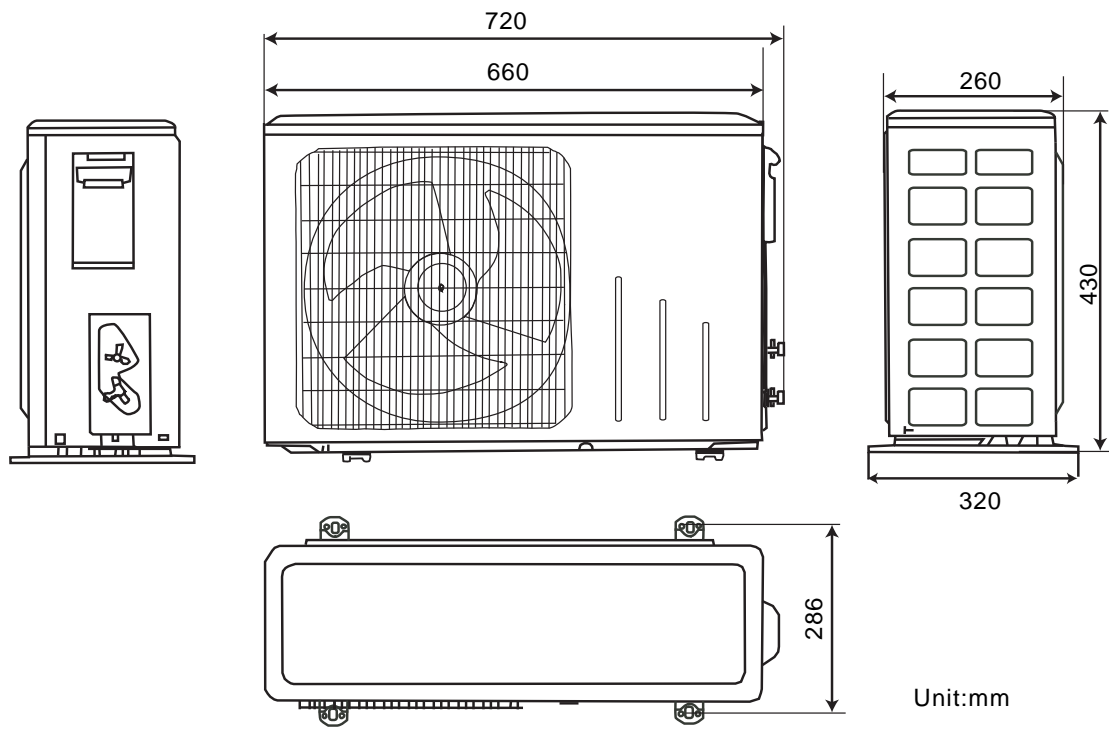


**A9 Panel**

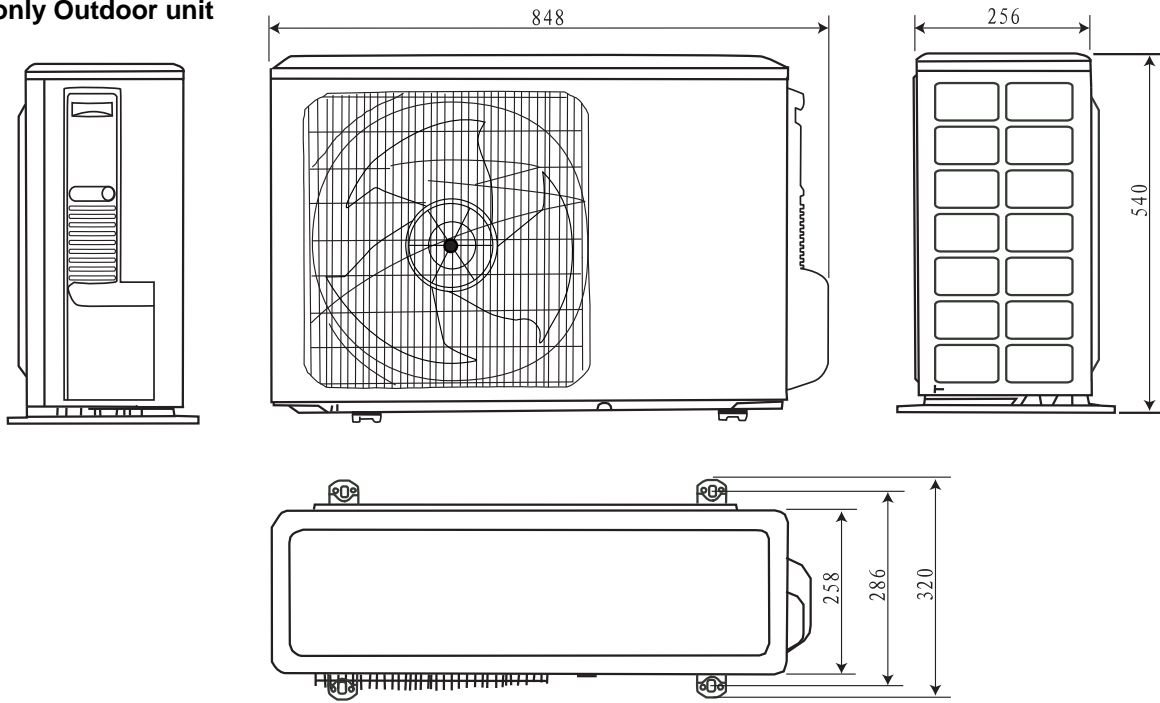


## 4. 2 Outline and installation dimensions of outdoor unit

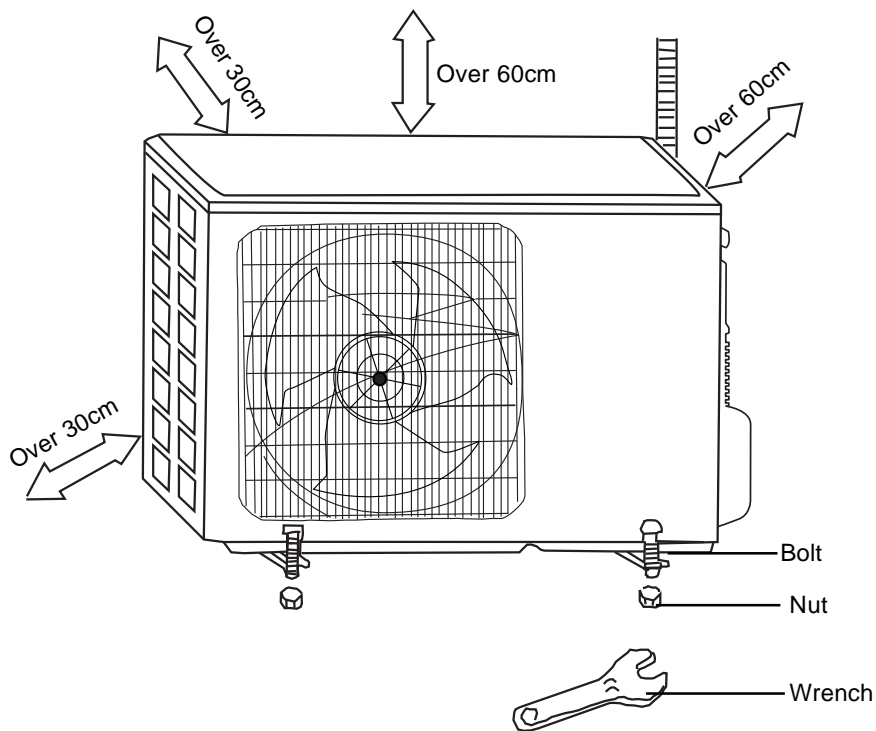
### GWC05MA-K1NNA9A/O and 09K(Besides GWC09MA-K1NNA9A/O ) Outdoor unit



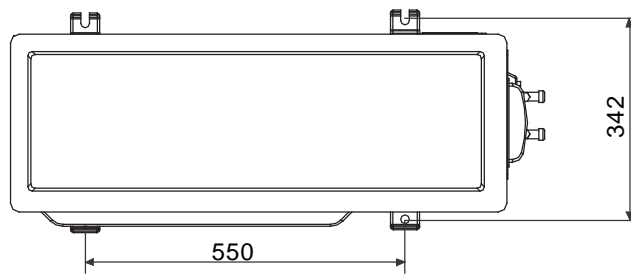
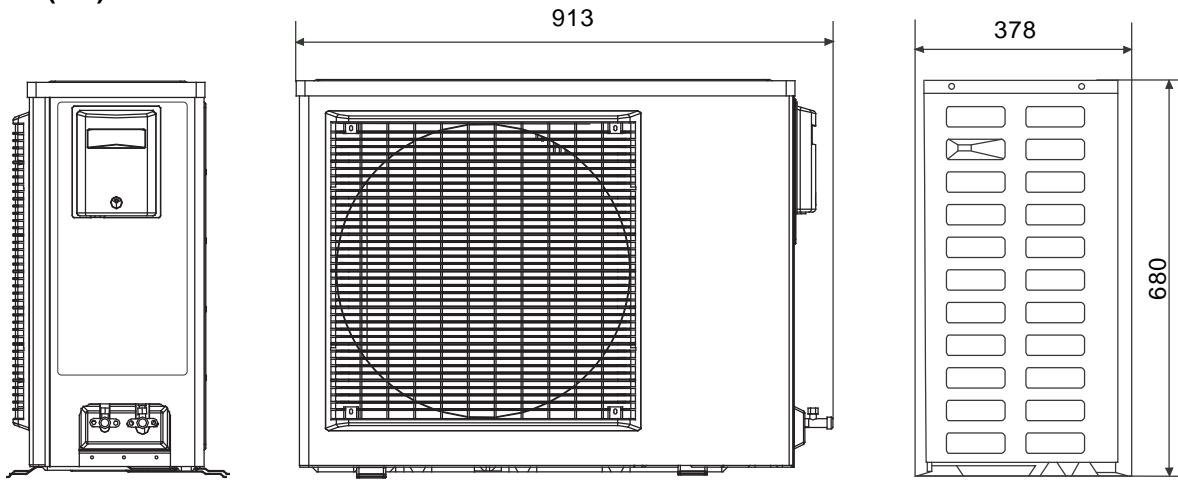
**GWC07MA-K1NNA9A/O GWC09MA-K1NNA9A/O, 12K Outdoor unit ,18K(MB)and 18K(MC) Cool only Outdoor unit**



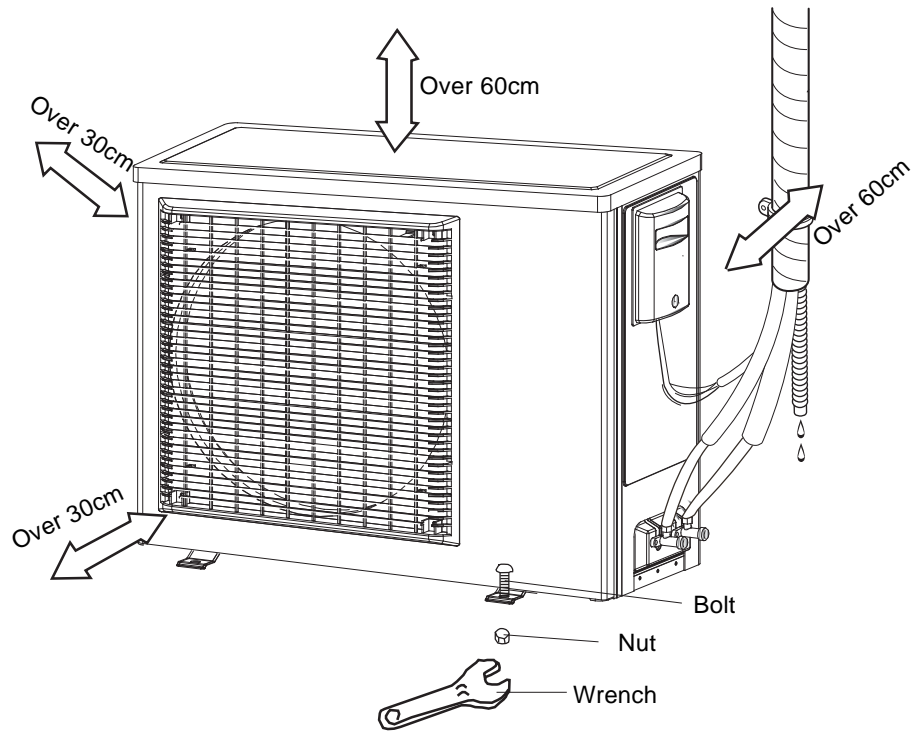
Unit:mm



18K(MC) Cool and Heat Outdoor unit

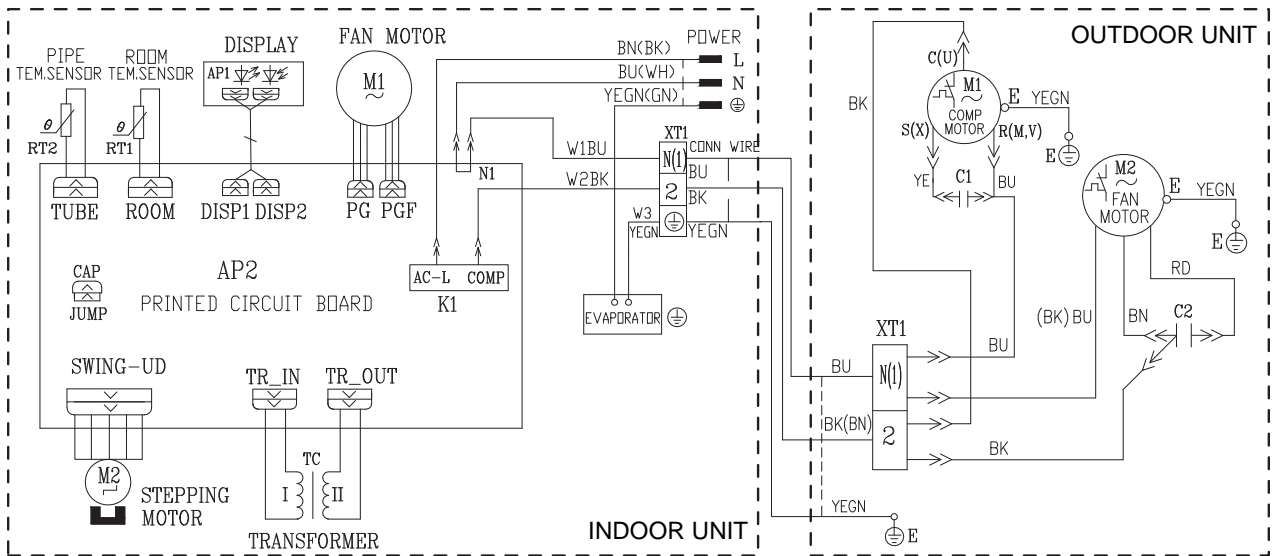


Unit:mm

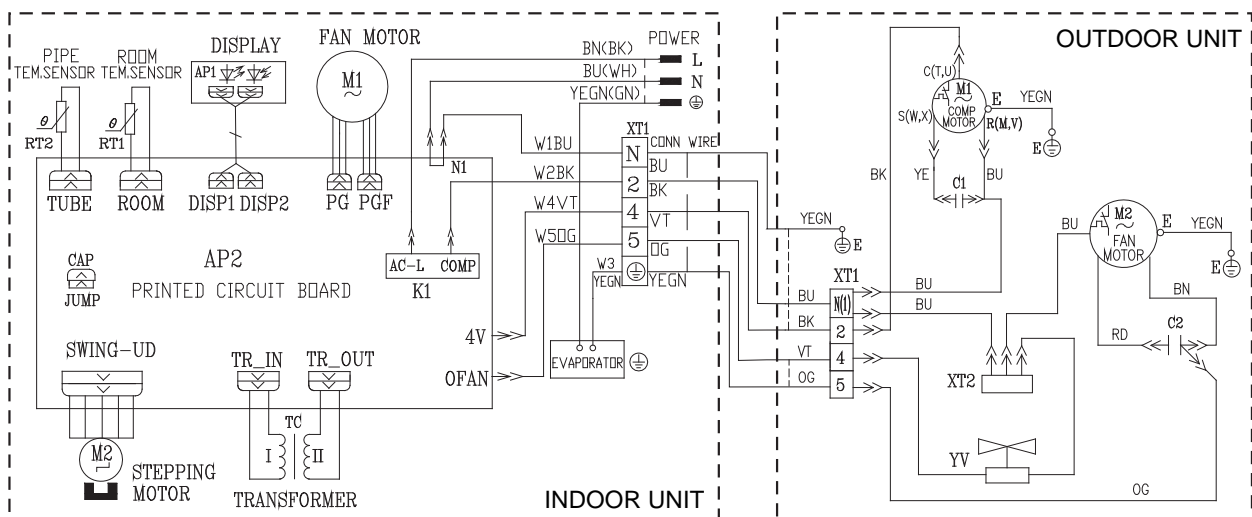


**5 Electrical circuit diagram**

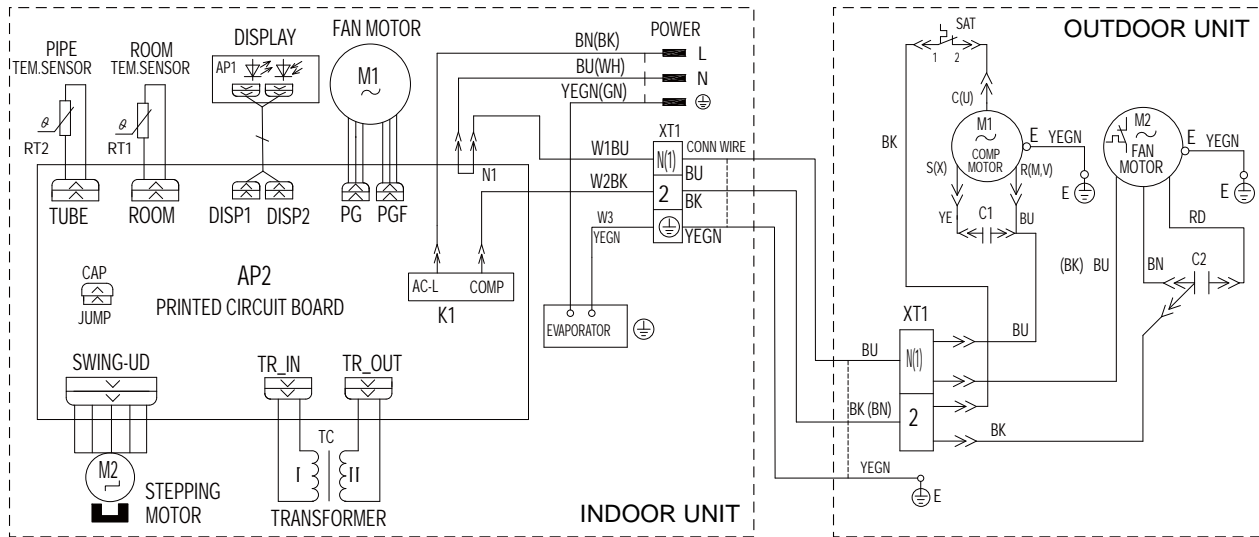
- GWC09MA-K1NNA2A GWC12MB-K1NNA2A GWC09MA-K1NNA3A GWC12MB-K1NNA3A**  
**GWC09MA-K1NNA4A GWC12MB-K1NNA4A GWC09MA-K1NNA5A GWC12MB-K1NNA5A**  
**GWC12MB-K1NNA3B GWC12MB-K1NNA7A GWC12MB-K1NNA7B GWC09MA-K1NNA8A**  
**GWC12MB-K1NNA8A GWC12MB-K1NNA8B GWC18MB-K1NNA4A GWC18MB-K1NNA5A**



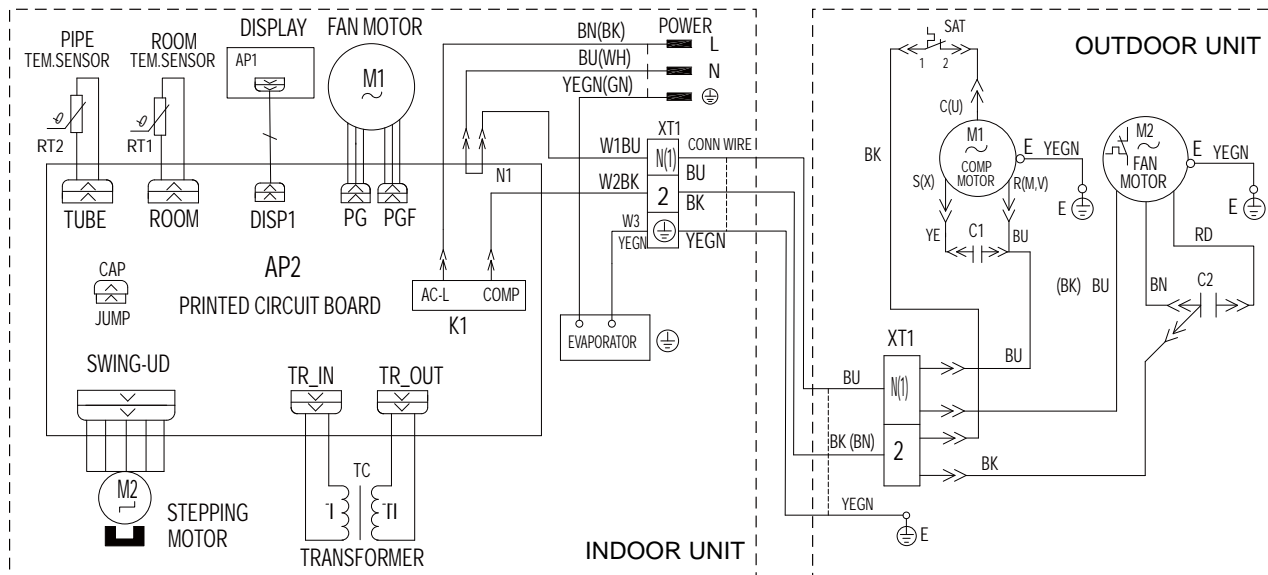
- GWH09MA-K1NNA2A GWH12MB-K1NNA2A GWH09MA-K1NNA3A GWH12MB-K1NNA3A**  
**GWH09MA-K1NNA4A GWH12MB-K1NNA4A GWH09MA-K1NNA5A GWH12MB-K1NNA5A**  
**GWH09MA-K1NNA8A GWH18MB-K1NNA4A GWH18MB-K1NNA5A**



**GWC05MA-K1NNA9A GWC07MA-K1NNA9A GWC09MA-K1NNA9A GWC09MA-K1NNA3B**

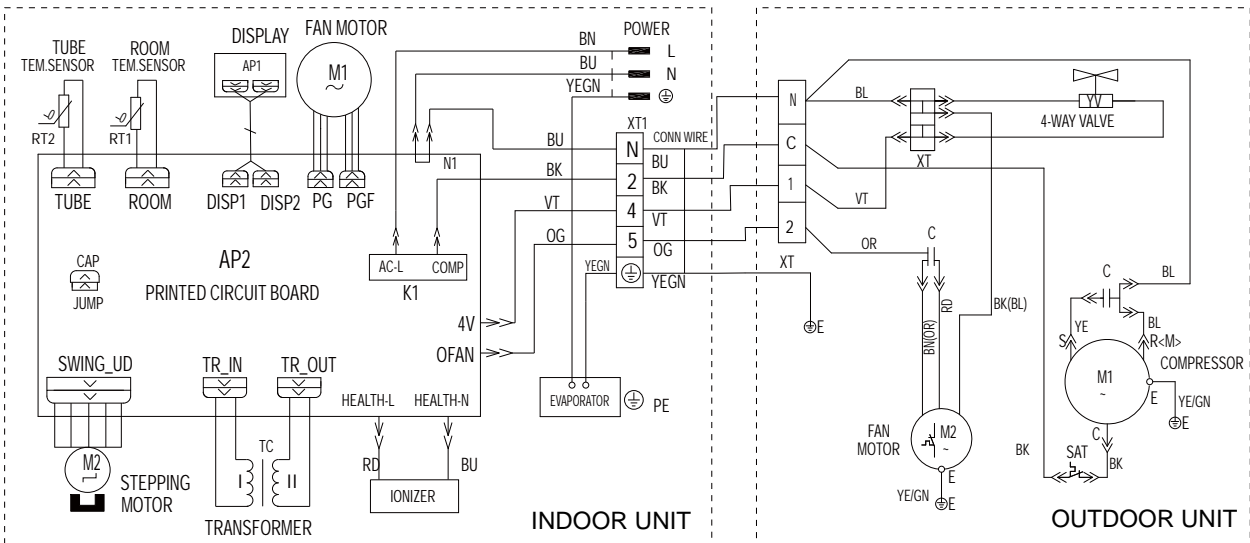


**GWC09MA-K1NNA1B**

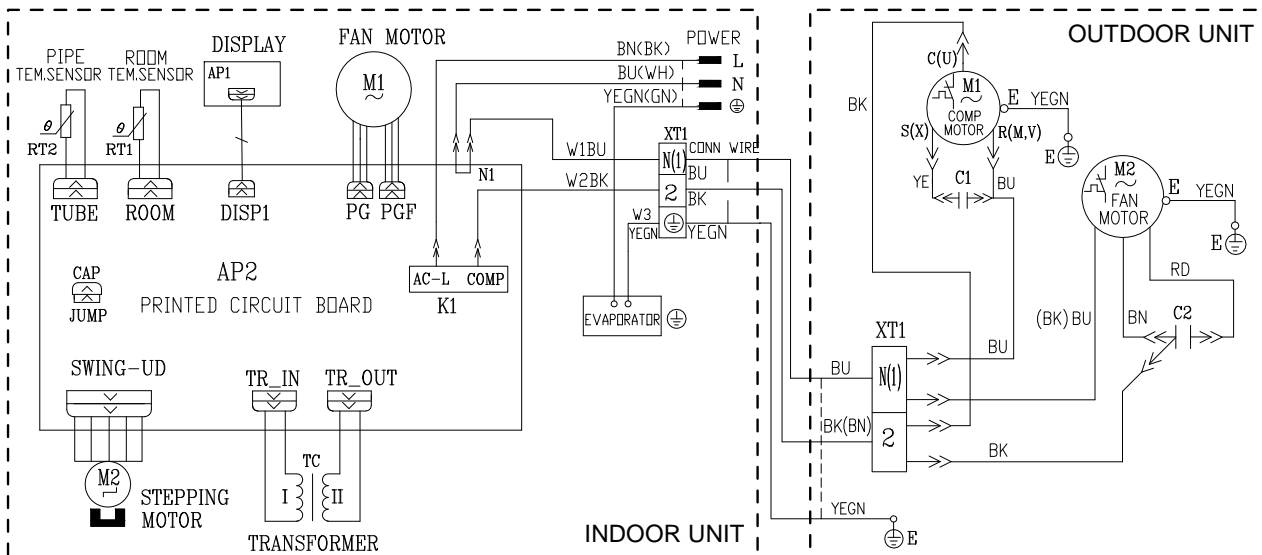




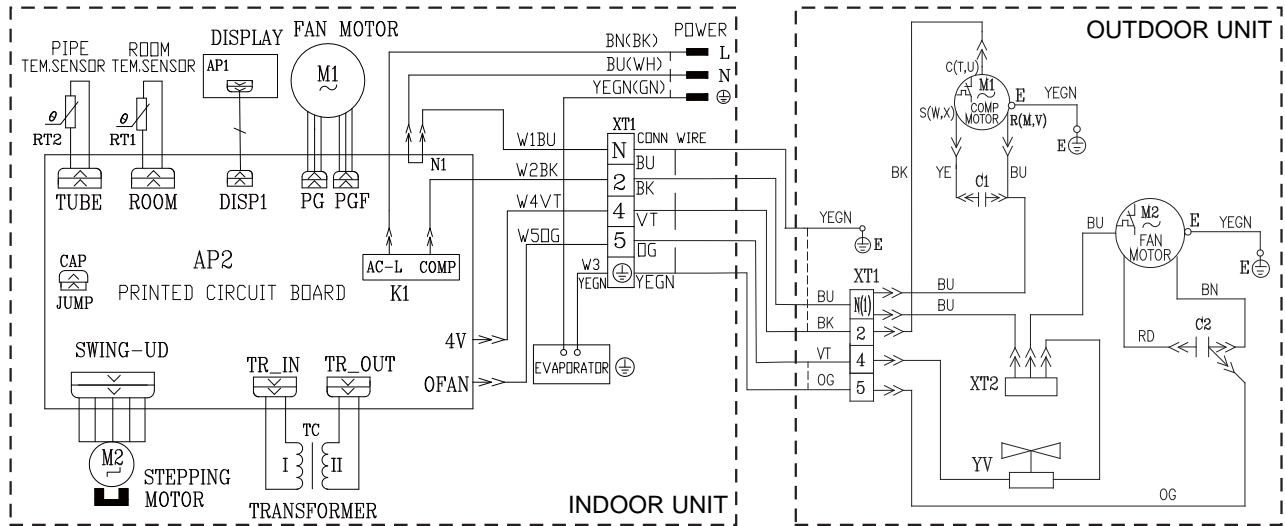
## GWH12MB-K1NNA8A



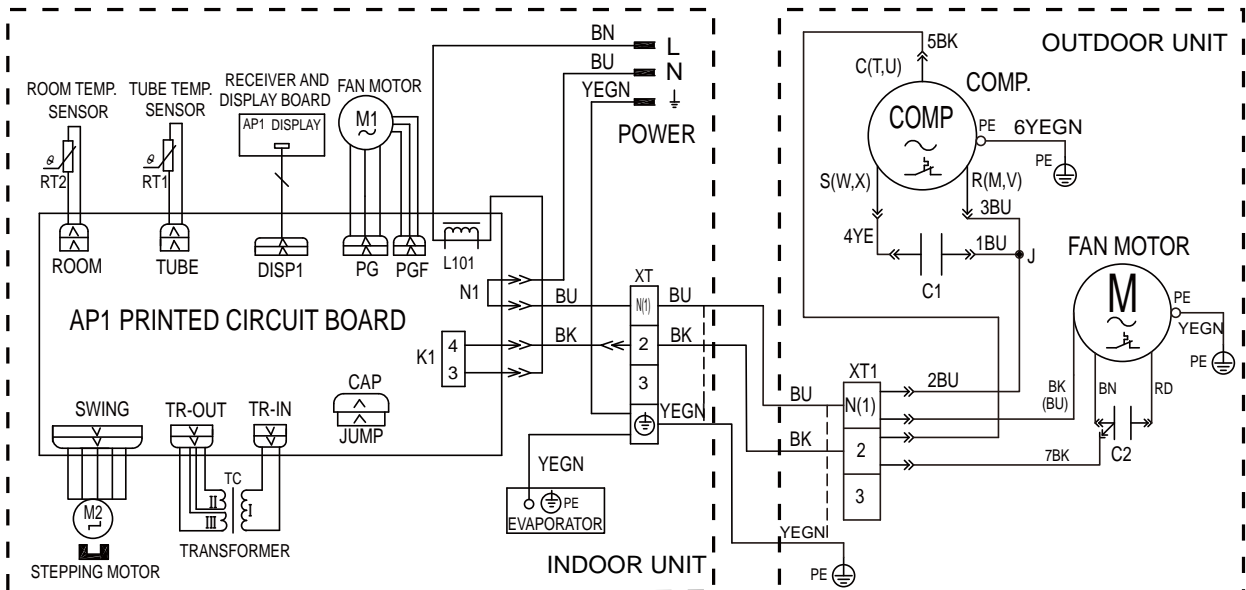
## GWC09MA-K1NNA1A GWC12MB-K1NNA1A GWC12MB-K1NNA1B



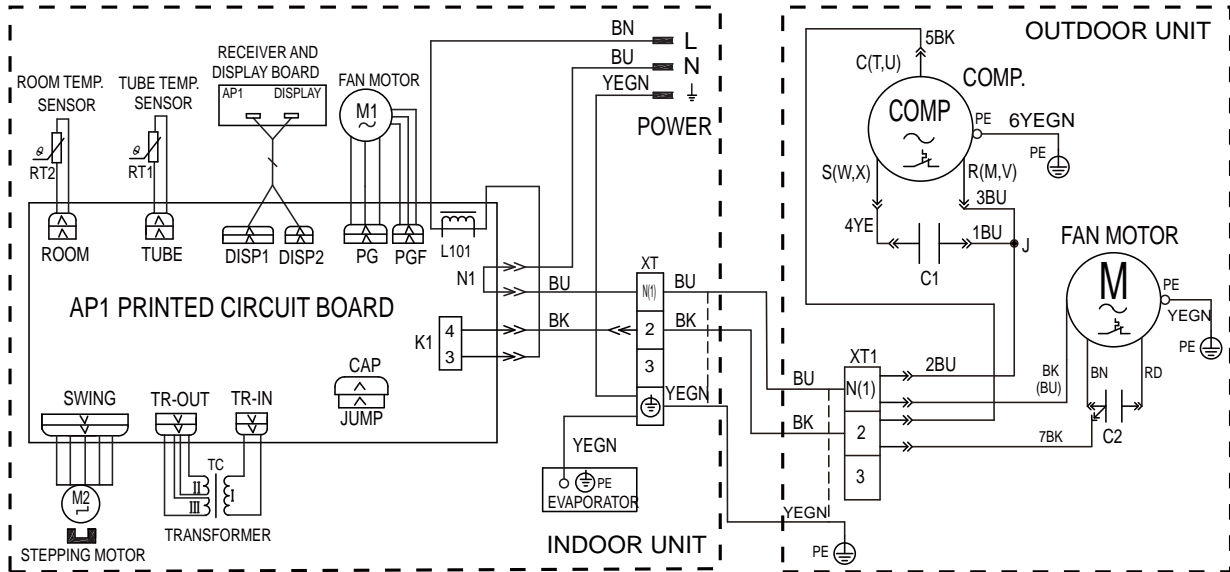
**GWH09MA-K1NNA1A GWH12MB-K1NNA1A**



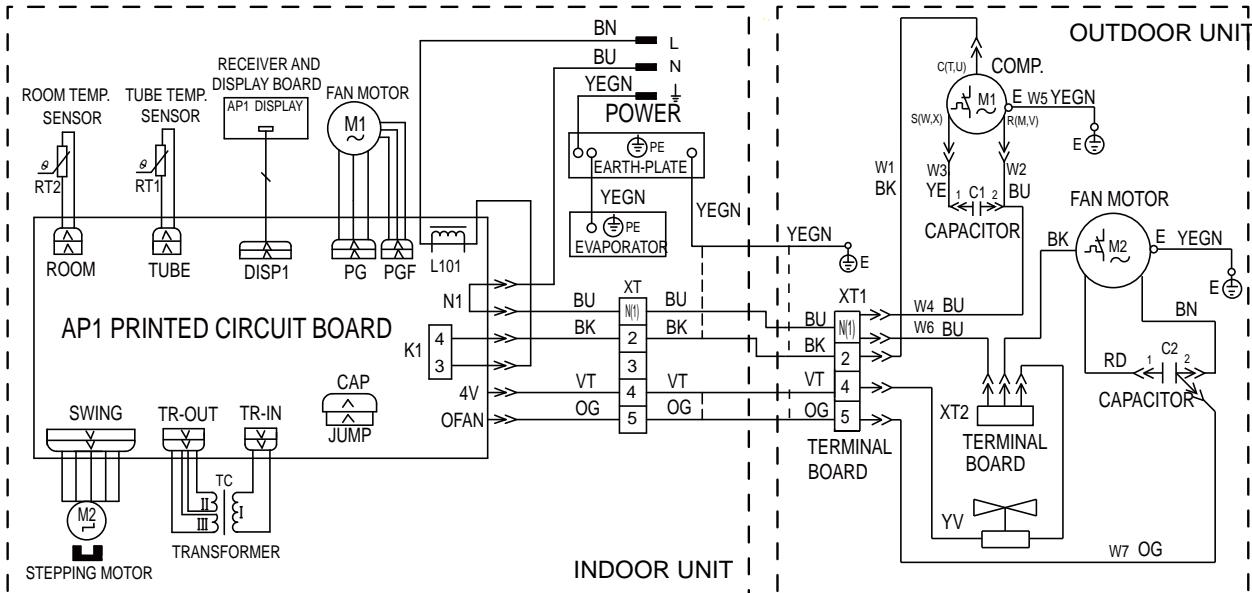
**GWC18MC-K1NNA1A GWC18MC-K1NNA6A GWC18MC-K1NNA9A**



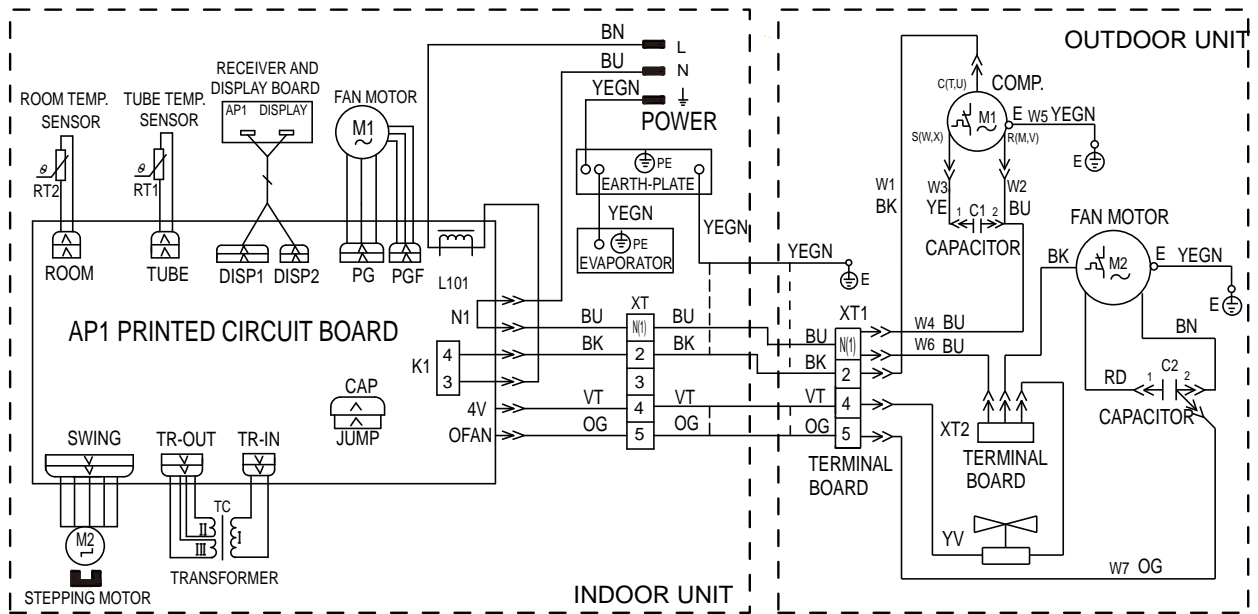
**GWC18MC-K1NNA2A    GWC18MC-K1NNA3A    GWC18MC-K1NNA4A    GWC18MC-K1NNA5A**  
**GWC18MC-K1NNA7A    GWC18MC-K1NNA8A**



**GWH18MC-K1NNA1A    GWH18MC-K1NNA6A    GWH18MC-K1NNA9A**



**GWH18MC-K1NNA2A GWH18MC-K1NNA3A GWH18MC-K1NNA4A GWH18MC-K1NNA5A**  
**GWH18MC-K1NNA7A GWH18MC-K1NNA8A**



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

# 6

## Controller Function Manual and Operating Instructions

### 6.1 Controller Function Manual

This manual is applicable to 05K, 07K, 09K, 12K & 18K (MB) the centigrade is used for the following function manual, if there will be the Fahrenheit degree, that will be  $TF = Tc \times 1.8 + 32$ .

#### 1 Temperature Parameters

- ◆ Indoor preset temperature ( $T_{\text{preset}}$ )
- ◆ Indoor ambient temperature ( $T_{\text{amb.}}$ )

#### 2 Basic Functions

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

##### 1 Cooling Mode

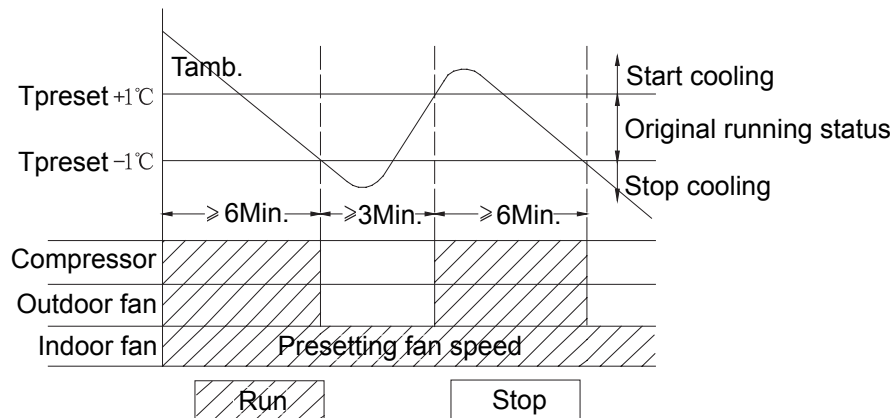
###### 1 Cooling Conditions and Process

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

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

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

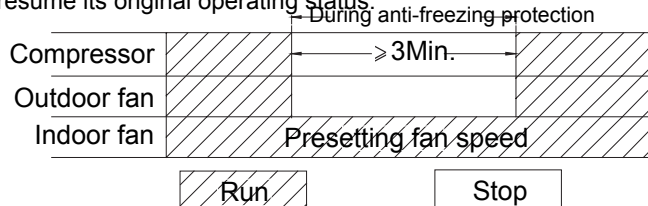
- Under this mode, the temperature can be set within a range from 16 to 30°C.



#### 2. Protection

##### ◆ Antifreeze Protection

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



#### 2 Dehumidifying Mode

##### 1 Working Conditions and Process of Dehumidifying

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

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

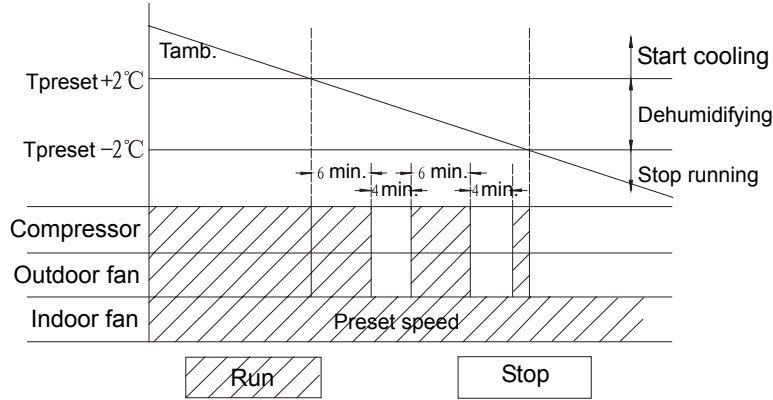
### ① DRY Modes

When  $T_{amb} > T_{preset} + 2^{\circ}\text{C}$ , the unit will run under DRY cooling mode, in which case the compressor and outdoor fan will be started and the indoor fan will run at low speed.

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

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

➤ Under this mode, the switchover valve will not be powered on and the setting temperature range is 16-30 °C.



### 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.

③ Other protection status.

The other protections are the same with that under Cool mode.

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

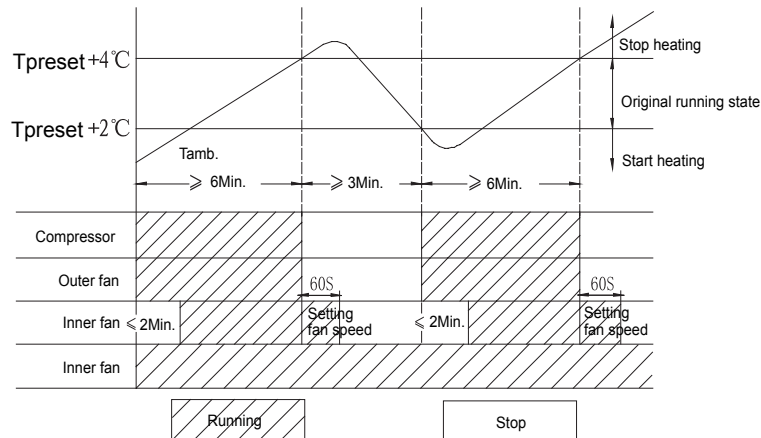
#### ① The conditions and process of heating

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

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

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

➤ Under this mode, the switchover valve will be powered on and the setting temperature range is 16-30 °C.



#### ② Conditions and processes of defrost

This unit adopt intelligent defrosting, it can defrost according to the frosting conditions, dual 8 display H1

#### ③ Protection

◆ Anti-high temperature protection

◆ **Noise Silencing Protection**

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

④ **Over current product**

The overcurrent protection is the same with the the over current protection under cool mode.

( 4 ) **Fan mode**

Under FAN mode, only the indoor fan runs at setting speed. The RUN indicator will be bright. Double 8 module indicator will display the setting temperature. When stand by, the power indicator is bright but the unit does not run.

( 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. For protection function, same as under cooling and heating mode.

### 3 Other controls

( 1 ) **Timer function**

① **Ordinary Timer setting:**

timer on: Under unit off, the timer on function could be set up, if timer on has arrived, controller will run at setting mode, the timer interval is 0.5hr, setting range is 0.5-24hrs.

Timer off: Under unit off, the timer off function could be set up, if timer off has arrived, controller will run at setting mode, the timer interval is 0.5hr, setting range is 0.5-24hrs.

② **Timer setting for hour:**

Timer on: if system is running, to set timer on, the system will continue to run, if unit is off to set up timer on, When timer on has arrived, the system will run at pressetting mode.

Timer off: If system is off to set up the timer off, when to set up timer off, the unit will stand by, when unit is on, to set up timer off, when the timer off arrived, the system will stop to work.

Timer setting change:

When system is in Timer status, can set up timer on and timer off by wireless remote control, to reset up Timer also, the system will run at last setting status.

When system is running, at the same time to set up Timer on and Timer off, the system will keep the present setting status, when time arrived, system will stop to work.

When system stop, at the same time to set up Timer on and Timer off, the system will stop, until the timer arrived, the system will start to work.

Hereafter, when timer of timer on in every day arrived, it will run the presetting modes, after timer off arrived, the system will stop.

( 2 ) **Auto button**

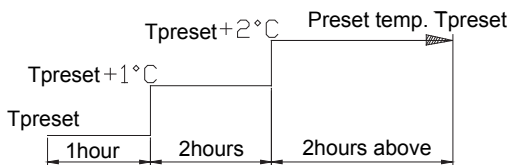
After powered on, press this button, it will run at Auto mode, when repressed, the unit will turns off.

( 3 ) **Buzzer**

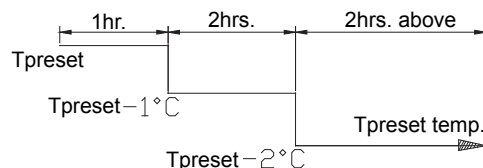
The controller is powered on and detect the signal received, the buzzer will beep.

( 4 ) **Sleep function**

Under cooling or dehumidifying mode, the preset temperature will automatically rise by 1°C, in one hour after setting of sleep program and rise by 1°C after 2hours.



Under heating mode, the preset temperature will automatically decrease by 1°C one hour after setting of sleep program and decrease by another 1°C after 2hours.



( 5 ) Turbo function

The turbo function is available in Cool and Heat modes.

( 6 ) Dry function

Dry function is available in Cool and Dehumidifying modes.

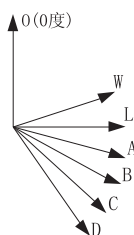
( 7 ) Auto fan speed control

In this mode, indoor fan can run with Hig, Mid, Low speeds.

( 8 ) Up and down swing control

After powered on, the lower swing motor will firstly rotate the guide louver to position 0, close up the air outlet vent; After unit turned on, if to set up swing function, when indoor fan stop running, the guide louver will stop at current position, inner fan motor is running, guide louver will resume to swing. From Cool, Dry, Fan modes to Heat mode, the guide louver will be opened at D position, when turn on swing will run at (A-D); from Heat mode to Cool, Dry, Fan mode, the fan louver will turn to B position, if turn on the swing, it will run at (A-C). When unit is turned off, the guide louver will turn to position 0, the swing is only available after preset the swing function, and indoor unit is running.

Note: When to set up at position L to B, A to C, B to D, the guide louver will swing between position W to D.



( 9 ) Displayer

① Running figure and mode figure display

After powered on, the figure will be displayed, then only Power/running indicator turn on. When using remote controller to open the unit, it will turn on, at the same time to display current setting running modes.

② Dual 8 display

When the unit is turned on, after powered on, the nixie tube will display the setting temp. (setting range is  $16-30^{\circ}\text{C}$ ).

When the preset temperature display signal has been received, the nixie tube will display the preset temperature;

If the display ambient temperature signal has been received, the nixie tube will display the current indoor ambient

temperature, if to set up others by remote controller that the display will maintain its status. At displaying ambient

temperature, the unit received the remote control signal, it will display 5s preset temperature then turn to ambient

temperature display. The ambient temperature sensor malfunction will display F1; Indoor tube sensor will display

F2, wire jumper cap protection displays C5.

( 10 ) PG motor lock protection

When turn on the fan motor, if motor continuously run for a while and the running speed is very slow, in order to prevent motor automatically self-protection, it will stop running and display lock; If currently turns unit on, that dual 8 will display lock error code H6; If current is unit off, will not display the block error information.

( 11 ) Power-off 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. 2 Manual of functions of remote controller

This manual is applicable to 18K, 24K models, the centigrade is used for the following function manual, if there will be the Fahrenheit degree, that will be  $TF = TCX1.8 + 32$ .

### 1. Temperature parameter

◆ The room setting temperature ( $T_{\text{preset}}$ )

◆ The room ambient temperature ( $T_{\text{amb}}$ )

### 2 Basic Functions

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

#### ( 1 ) Cooling Mode

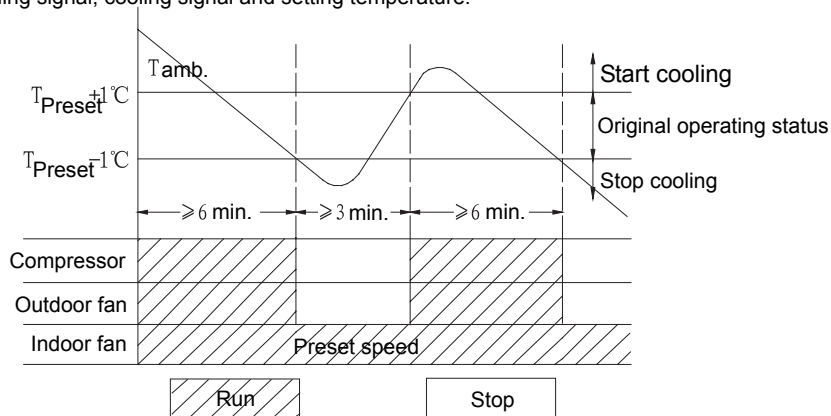
##### ① Cooling Conditions and Process

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

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

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

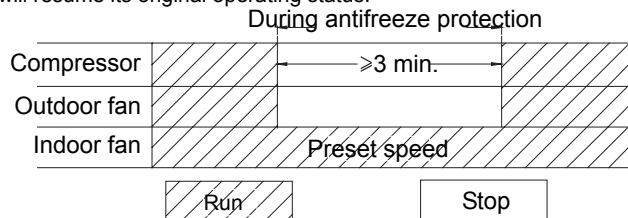
➤ Under this mode, the four-way valve will not be powered on and the setting temperature range is  $16\text{--}30^{\circ}\text{C}$ .  
The displayer displays running signal, cooling signal and setting temperature.



##### ② Protection

###### ◆ Antifreeze Protection

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



##### ③ Over current protection

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 6 times continuously detected overcurrent protection (if the compressor has run over 6 mins continuously, the times of protection will be cleared), the main unit will be stopped on standby, the nixietube will display error code "E5", power indicator will blink and it is need to restart the unit by the wireless remote control.

#### ( 2 ) DRY Modes

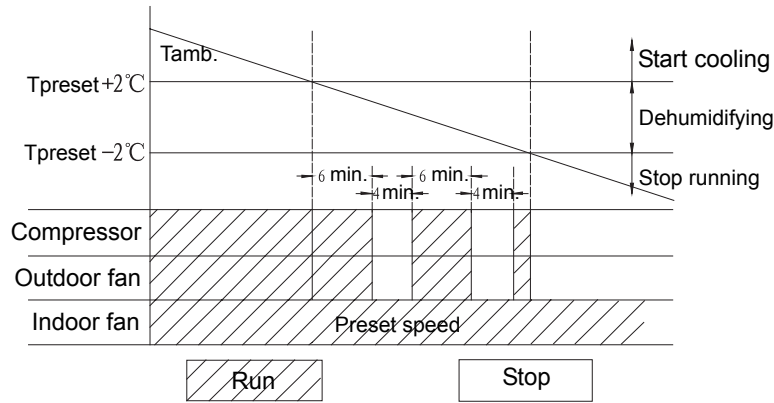
### ① DRY Modes

When  $T_{amb} > T_{preset} + 2^{\circ}C$ , the unit will run under DRY cooling mode, in which case the compressor and outdoor fan will be started and the indoor fan will run at low speed.

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

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

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



### 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.

③ Other protection status.

The other protections are the same with that under Cool mode.

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

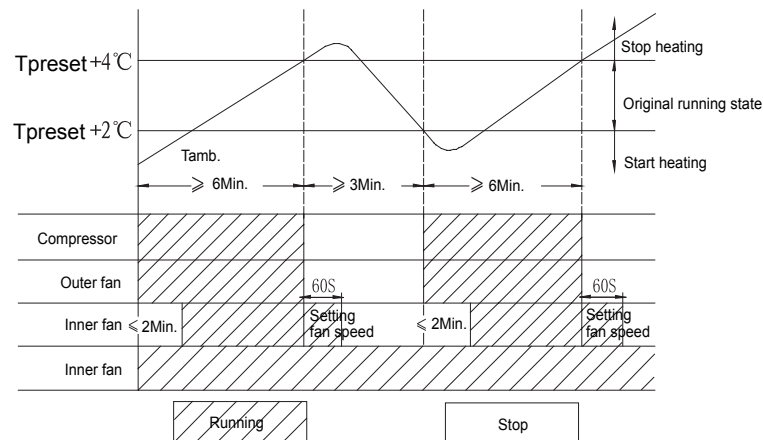
#### ① The conditions and process of heating

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

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

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

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



#### ② Conditions and processes of defrost

This unit adopt intelligent defrosting, it can defrost according to the frosting conditions, dual 8 display H1

#### ③ Protection

◆ Anti-high temperature protection

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

◆ **Noise Silencing Protection**

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

④ **Over current product**

The overcurrent protection is the same with the the over current protection under cool mode.

( 4 ) **Fan mode**

Under FAN mode, only the indoor fan runs at setting speed. The RUN indicator will be bright. Double 8 module indicator will display the setting temperature. When stand by, the power indicator is bright but the unit does not run.

( 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. For protection function, same as under cooling and heating mode.

### 3 Other controls

( 1 ) **Timer function**

① **Ordinary Timer setting:**

timer on: Under unit off, the timer on function could be set up, if timer on has arrived, controller will run at setting mode, the timer interval is 0.5hr, setting range is 0.5-24hrs.

Timer off: Under unit off, the timer off function could be set up, if timer off has arrived, controller will run at setting mode, the timer interval is 0.5hr, setting range is 0.5-24hrs.

② **Timer setting for hour:**

Timer on: if system is running, to set timer on, the system will continue to run, if unit is off to set up timer on, When timer on has arrived, the system will run at pressetting mode.

Timer off: If system is off to set up the timer off, when to set up timer off, the unit will stand by, when unit is on, to set up timer off, when the timer off arrived, the system will stop to work.

Timer setting change:

When system is in Timer status, can set up timer on and timer off by wireless remote control, to reset up Timer also, the system will run at last setting status.

When system is running, at the same time to set up Timer on and Timer off, the system will keep the present setting status, when time arrived, system will stop to work.

When system stop, at the same time to set up Timer on and Timer off, the system will stop, until the timer arrived, the system will start to work.

Hereafter, when timer of timer on in every day arrived, it will run the presetting modes, after timer off arrived, the system will stop.

( 2 ) **Auto button**

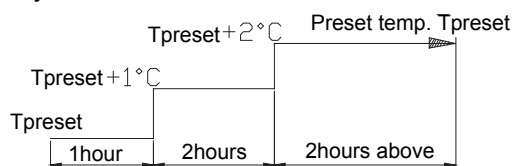
After powered on, press this button, it will run at Auto mode, when repressed, the unit will turns off.

( 3 ) **Buzzer**

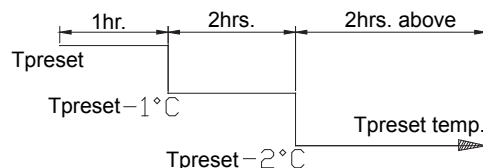
The controller is powered on and detect the signal received, the buzzer will beep.

( 4 ) **Sleep function**

Under cooling or dehumidifying mode, the preset temperature will automatically rise by 1°C, in one hour after setting of sleep program and rise by 1°C after 2hours.



Under heating mode, the preset temperature will automatically decrease by 1°C one hour after setting of sleep program and decrease by another 1°C after 2hours.



( 5 ) Turbo function

The turbo function is available in Cool and Heat modes.

( 6 ) Dry function

Dry function is available in Cool and Dehumidifying modes.

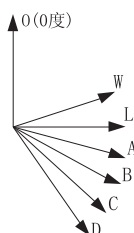
( 7 ) Auto fan speed control

In this mode, indoor fan can run with Hig, Mid, Low speeds.

( 8 ) Up and down swing control

After powered on, the lower swing motor will firstly rotate the guide louver to position 0, close up the air outlet vent; After unit turned on, if to set up swing function, when indoor fan stop running, the guide louver will stop at current position, inner fan motor is running, guide louver will resume to swing. From Cool, Dry, Fan modes to Heat mode, the guide louver will be opened at D position, when turn on swing will run at (A-D); from Heat mode to Cool, Dry, Fan mode, the fan louver will turn to B position, if turn on the swing, it will run at (A-C). When unit is turned off, the guide louver will turn to position 0, the swing is only available after preset the swing function, and indoor unit is running.

Note: When to set up at position L to B, A to C, B to D, the guide louver will swing between position W to D.



( 9 ) Displayer

① Running figure and mode figure display

After powered on, the figure will be displayed, then only Power/running indicator turn on. When using remote controller to open the unit, it will turn on, at the same time to display current setting running modes.

② Dual 8 display

When the unit is turned on, after powered on, the nixie tube will display the setting temp.(setting range is 16-30°C).

When the preset temperature display signal has been received, the nixie tube will display the preset temperature;

If the display ambient temperature signal has been received, the nixie tube will display the current indoor ambient

temperature, if to set up others by remote controller that the display will maintain its status. At displaying ambient

temperature, the unit received the remote control signal, it will display 5s preset temperature then turn to ambient

temperature display. The ambient temperature sensor malfunction will display F1; Indoor tube sensor will display

F2, wire jumper cap protection displays C5.

( 10 ) PG motor lock protection

When turn on the fan motor, if motor continuously run for a while and the running speed is very slow, in order to prevent motor automatically self-protection, it will stop running and display lock; If currently turns unit on, that dual 8 will display lock error code H6; If current is unit off, will not display the block error information.

( 11 ) Power-off 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.

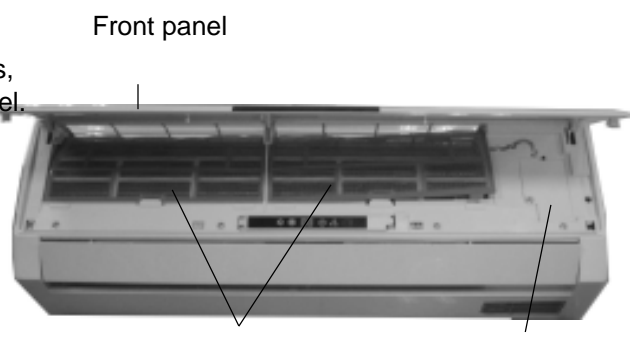
## 7 Dissassembly Procedures

### 7.1 Disassembly procedures for indoor unit

#### Operating Procedures / Photos

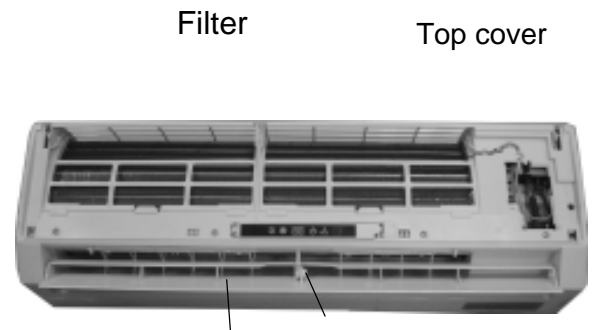
**1. Disassemble the front panel**

Open the front panel, slightly press the axial of both sides, then to make the axial slide, can take down the front panel.  
 Push the filter onwards, can take down the front panel.  
 Push the filter, can take down the filter.  
 Unscrew one screw from top cover, can take it down.

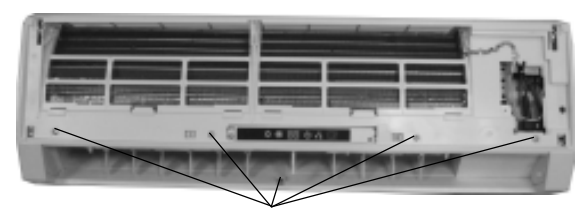


**2. Disassemble the air guide board**

Use the screwdriver to push the axial, hold both side of air guide board. Then can take them down.

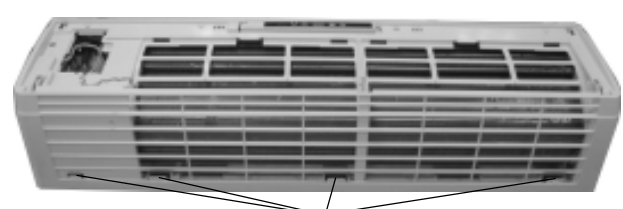


**Air guide board**



**3. Disassemble the front case**

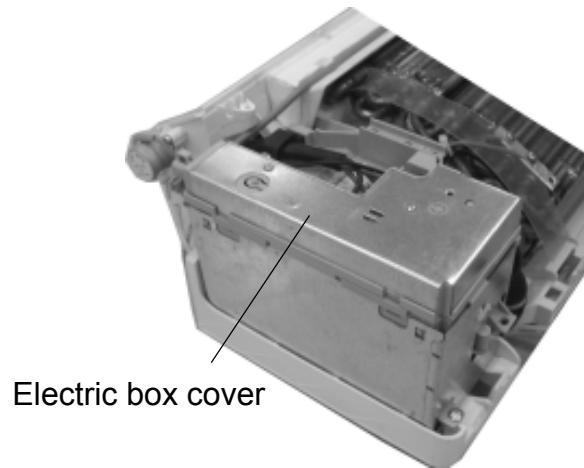
Open the screw cover, screw off 5pcs screw fix on the front case, loosen the rear clasp, lift it up, can take down it.



## Operating Procedures / Photos

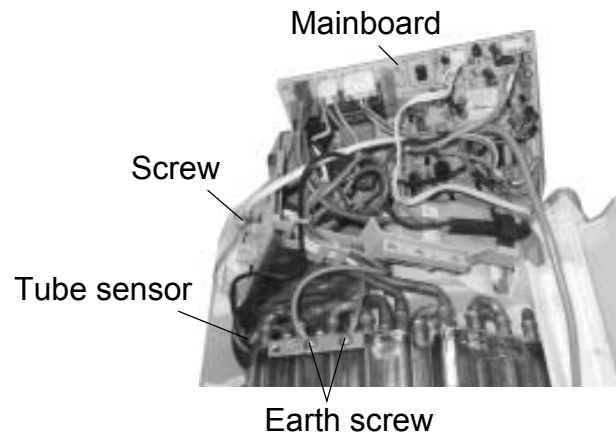
### 4. Disassemble the electrical box cover

Screw off screw from the electrical box cover then can disassemble the electric box cover.



### 5. Disassemble electric box

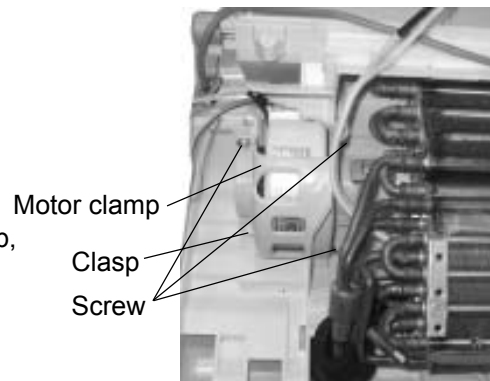
Screw off screws on electric box, screw off earth screw, pull out tube sensor, mainboard, LCD, air guide motor, wire terminal of motor, then can take down the electric box.



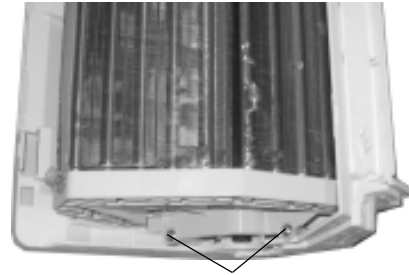
### 6. Disassemble evaporator

Screw off screws from evaporator, and loosen clasp, can take down the motor clamp.

Screw off one screw from the evaporator and motor clamp, can take down the motor clamp.



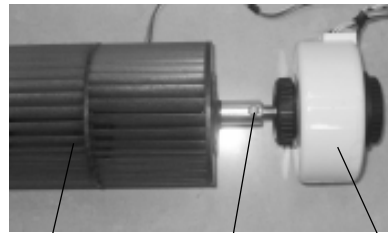
**Operating Procedures / Photos**



Screw

**7. Take down motor**

Screw off 1 screw between the motor and cross flow fan, can take down the motor.



Cross flow fan

Screws

Motor

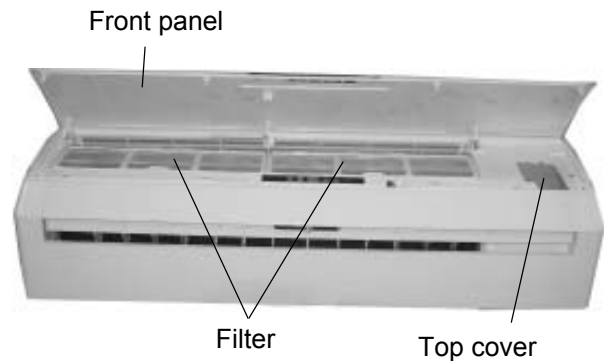
## 7.2 18K(MC)Disassembly procedures for indoor unit

### Operating Procedures / Photos

#### 1.Disassemble the front panel

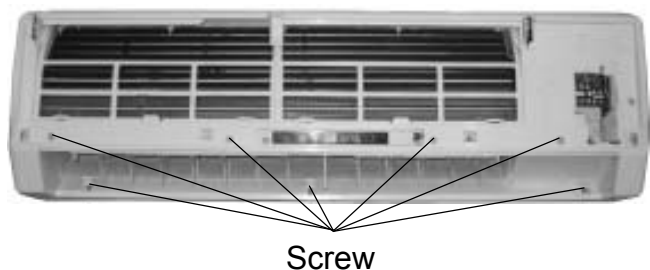
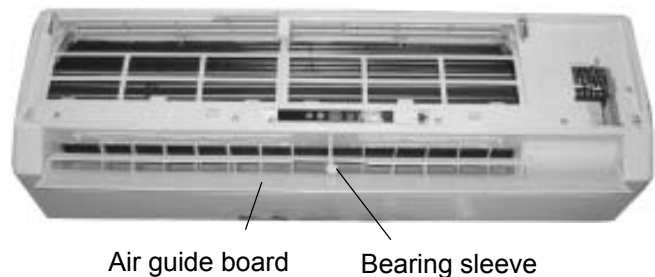
Open the front panel, slightly press the axial of both sides, then to make the axial slide, can take down the front panel. Push the filter onwards, can take down the front panel. Push the filter, can take down the filter.

Unscrew one screw from top cover, can take it down.



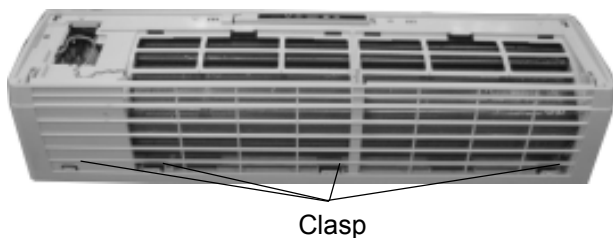
#### 2.Disassemble the air guide board

Use the screwdriver to push the axial, hold both side of air guide board. Then can take them down.



#### 3.Disassemble the front case

Open the screw cover, screw off 5pcs screw fix on the front case, loosen the rear clasp, lift it up, can take down it.

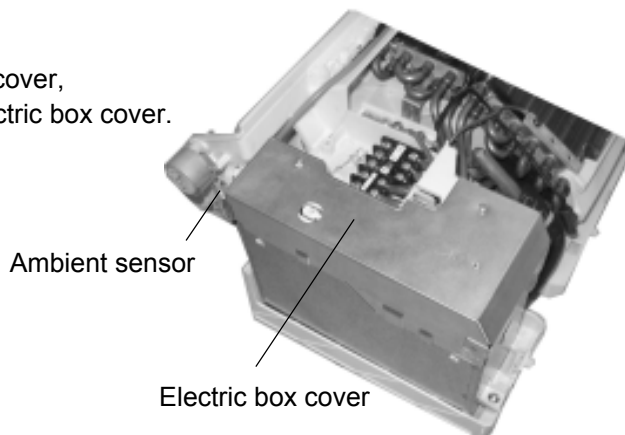




### Operating Procedures / Photos

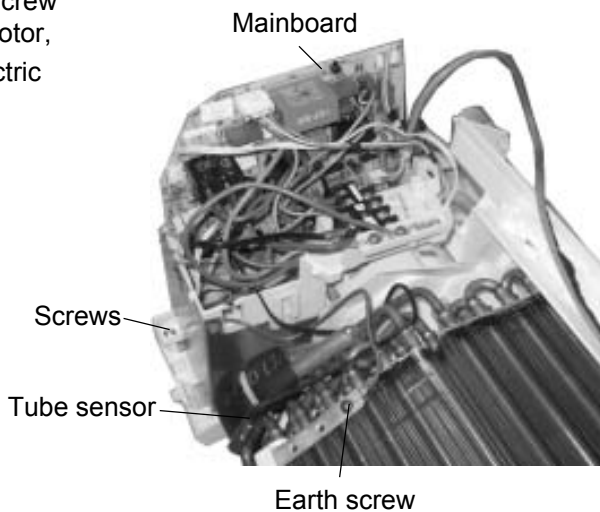
#### 4. Disassemble the electrical box cover

Slightly press the clasps around the electric box cover, take down the ambient sensor, take down the electric box cover.



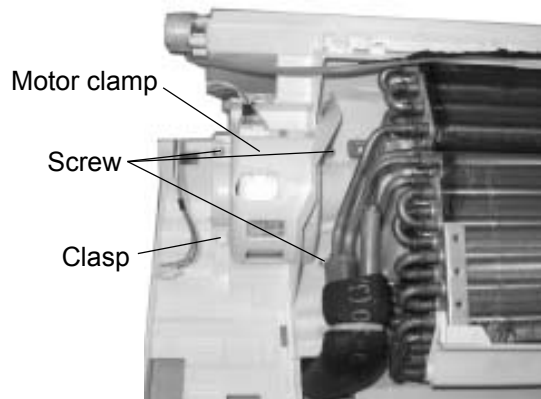
#### 5, Disassemble electric box

Screw off screws on electric box, screw off earth screw pull out tube sensor, mainboard, LCD, air guide motor, wire terminal of motor then can take down the electric box.

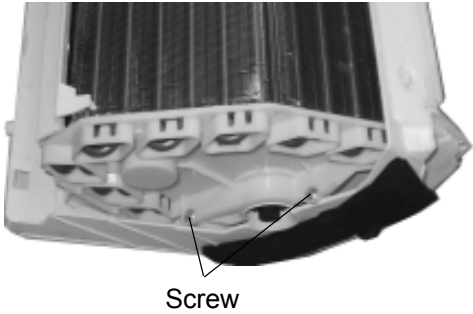


#### 6. Disassemble evaporator

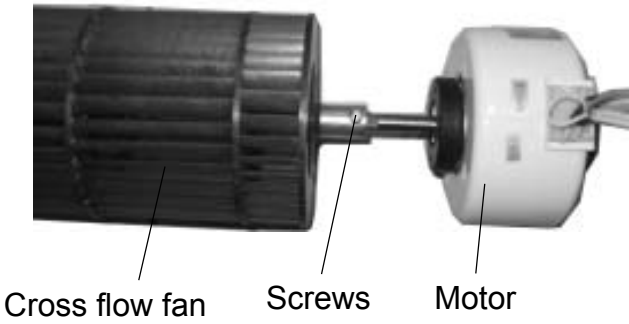
Screw off screws from evaporator, and loosen clasp, can take down the motor clamp.  
Screw off one screw from the evaporator and motor clamp, can take down the motor clamp.



**Operating Procedures / Photos**



7. Take down motor  
Screw off 1 screw between the motor and cross flow fan, can take down the motor.



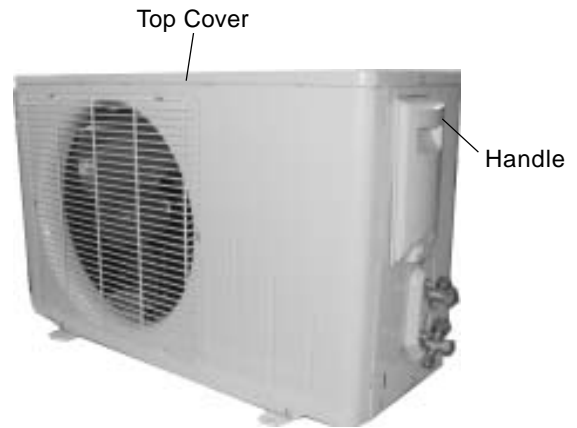
**7.3 Disassembly Procedures for Outdoor Unit 1**

**Operating Procedures / Photos**

**1. Disassemble Handle, Top Cover**

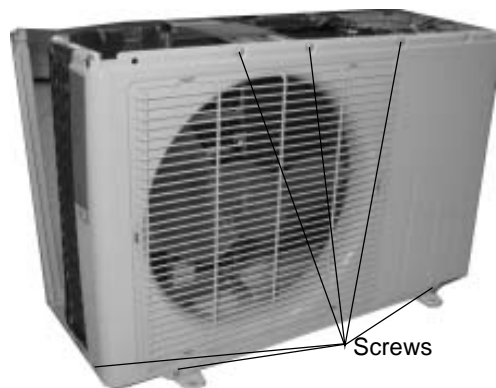
Unscrew the screw fixing the handle, and then remove it upwards to take it out.

Unscrew the 2 screws fixing left side of top cover and the 1 screw fixing the right side to remove the top cover.



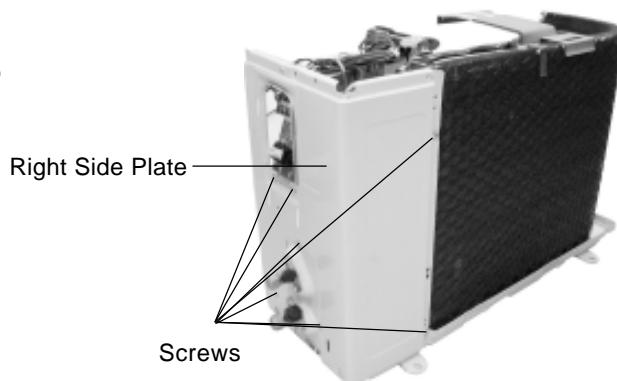
**2. Disassemble Front Panel**

Unscrew the screws fixing the panel and turn right the front panel to remove it.



**3. Disassemble Right Side Plate**

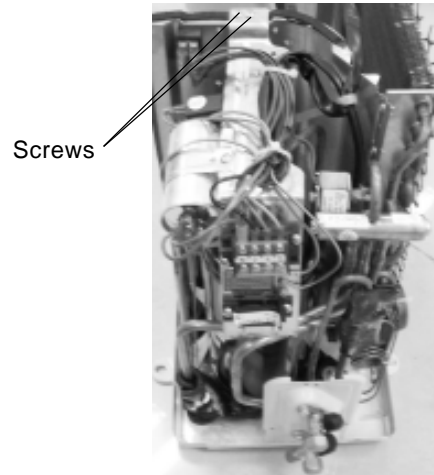
Unscrew the 2 screws fixing electric box, and then unscrew the 5 screws fixing the right side plate to remove it.



## Operating Procedures / Photos

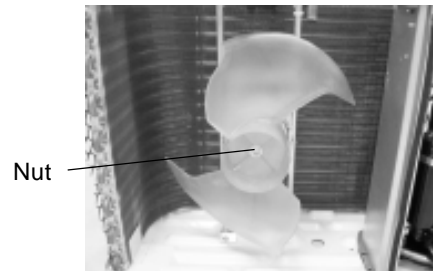
### 4. Disassemble Electric Box

Unscrew the screws fixing the electric box, and then pull out the inset block of lead-out wire of compressor and fan motor to take out the electric box.



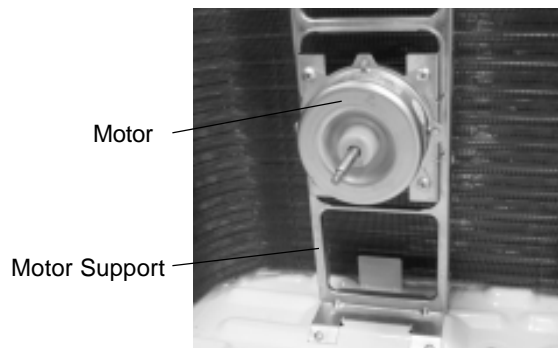
### 5. Disassemble Axial Flow Fan

Loosen the fastening nut fixing the axial flow fan with a spanner, and then take out the nut, spring gasket and flap gasket in turn.



### 6. Disassemble Motor and Motor Support

Unscrew the 4 screws fixing the motor to take out the motor, and then unscrew the 2 screws fixing the motor support to take it out.



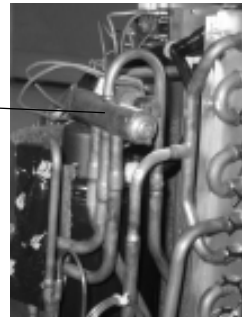
## Operating Procedures / Photos

### 7. Disassemble Four-way Valve

Unscrew the fastening nut of the four-way valve coil and remove the coil. Wrap the four-way valve with wet cotton and unsolder the 4 weld spots connecting the four-way valve to take it out. (Note: Refrigerant should be discharged firstly.)

Welding process should be as quick as possible and keep wrapping cotton wet all the time. Be sure not to burn out the lead-out wire of compressor.

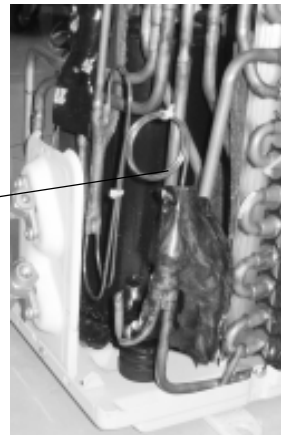
Four-way Valve



### 8. Disassemble Capillary

Respectively unsolder the weld spots of main capillary and auxiliary capillary to take off the capillary.

Capillary



### 9. Disassemble Compressor

Unscrew the three foot-nuts at the foot of the compressor. Unsolder the suction and the discharge pipes of the compressor, and then carefully remove the pipes to take out the compressor.

Nut

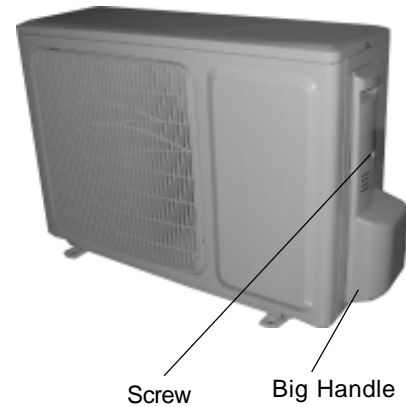


## 7.4 Disassembly Procedures for Outdoor Unit 2

### Operating Procedures / Photos

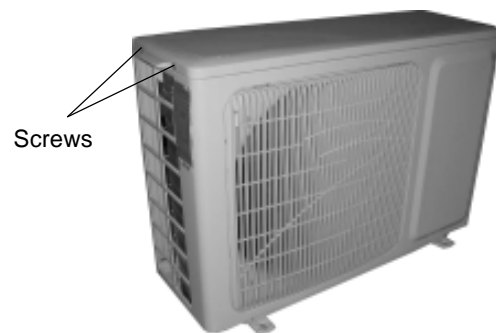
#### 1. Disassemble Big Handle

Unscrew the screw fixing the big handle, and then remove it downwards to take it out.



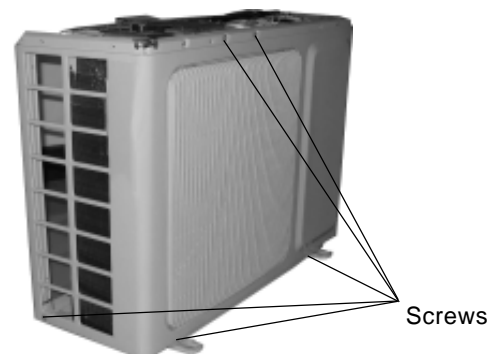
#### 2. Disassemble Top Cover

Unscrew the 2 screws fixing left side of top cover and the 1 screw fixing the right side to remove the top cover.



#### 3. Disassemble Front Panel

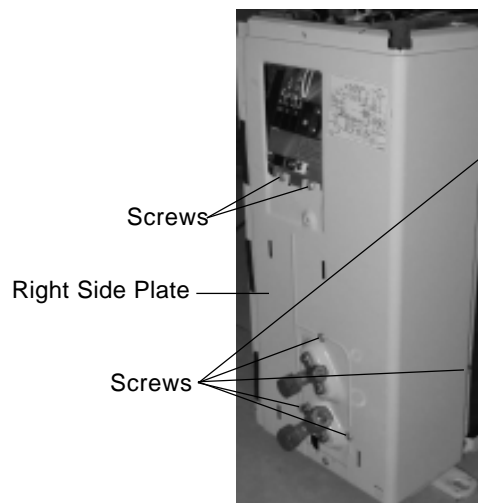
Unscrew the 5 screws fixing the panel and dextrorotate the front panel to pull it out from groove.



## Operating Procedures / Photos

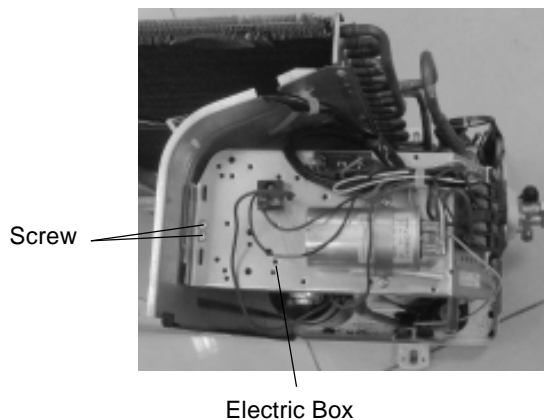
### 4. Disassemble Right Side Plate

Unscrew the 2 screws fixing electric box ,and then unscrew the 5 screws fixing the right side plate to remove it.



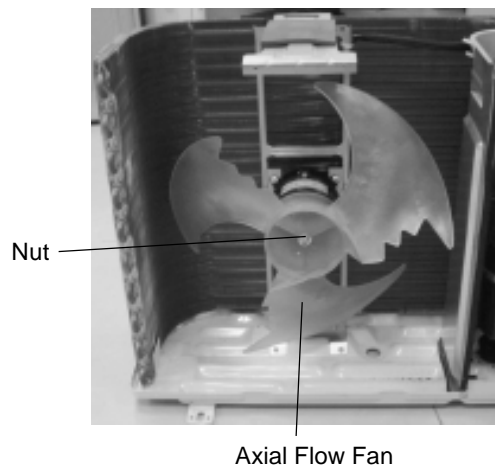
### 5. Disassemble Electric Box

Unscrew the screws fixing the electric box, and then pull out the inset block of lead-out wire of compressor and fan motor to take out the electric box.



### 6. Disassemble Axial Flow Fan

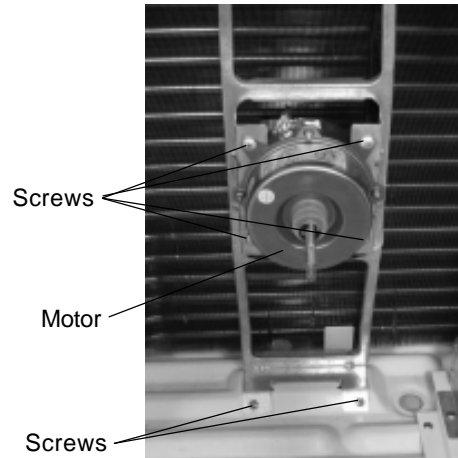
Loosen the fastening nut fixing the axial flow fan with a spanner, and then take out the nut, spring gasket and flap gasket in turn.



## Operating Procedures / Photos

### 7. Disassemble Motor and Motor Support

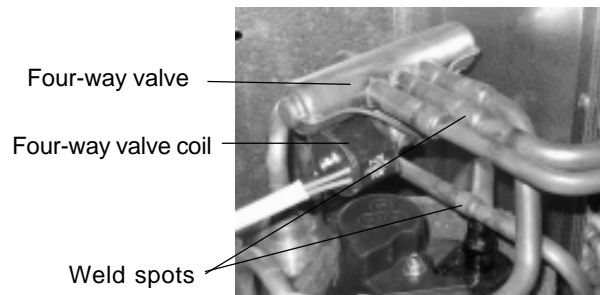
Unscrew the 4 screws fixing the motor to take out the motor, and then unscrew the 2 screws fixing the motor support to take it out.



### 8. Disassemble Four-way Valve

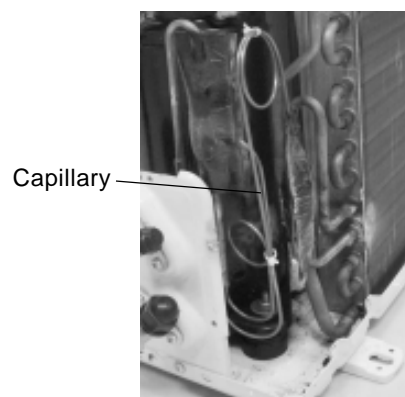
Unscrew the fastening nut of the four-way valve coil and remove the coil. Wrap the four-way valve with wet cotton and unsolder the 4 weld spots connecting the four-way valve to take it out. (Note: Refrigerant should be discharged firstly.)

Welding process should be as quick as possible and keep wrapping cotton wet all the time. Be sure not to burn out the lead-out wire of compressor.



### 9. Disassemble Capillary

Respectively unsolder the weld spots of main capillary and auxiliary capillary to take off the capillary.





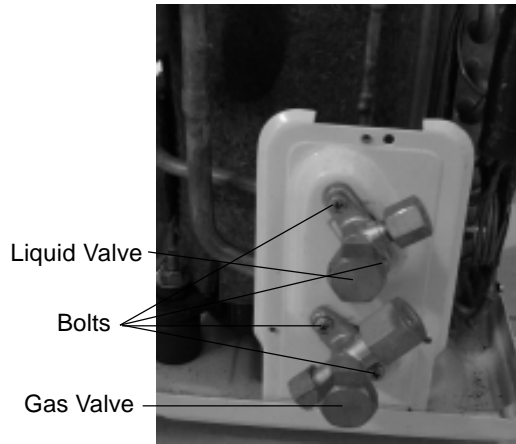
**Operating Procedures / Photos**

**10. Disassemble Gas and Liquid Valves**

Unscrew the two bolts fixing gas valve and liquid valve. Unsolder weld spots between gas valve and air-return pipe to remove the gas valve.

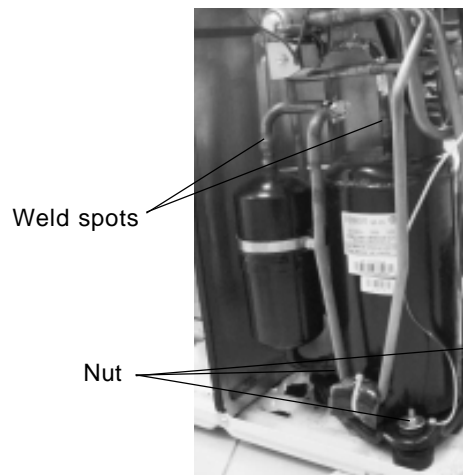
Unscrew the two bolts fixing liquid valve. Unsolder weld spots between liquid valve and capillary to remove the liquid valve.

(Note: During unsoldering, wrap the valves with wet cloth to avoid damage for high temperature.)



**11. Disassemble Compressor**

Unscrew the three foot-nuts at the foot of the compressor, take out the compressor.



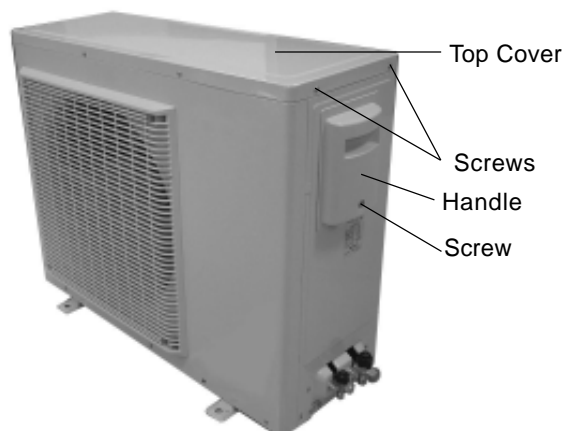
## 7.5 Disassembly Procedures for Outdoor Unit 3

### Operating Procedures / Photos

#### 1. Disassemble Handle and Top Cover

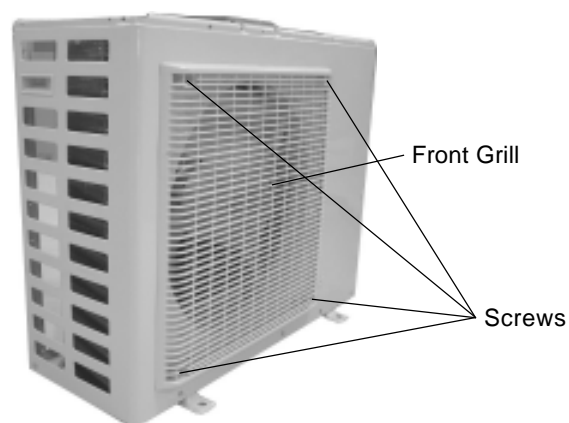
Unscrew the screw fixing the handle, then push it downwards to take it out.

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



#### 2. Disassemble Front grill

Unscrew the screws fixing the front grill, and then lift it upwards to remove it.



#### 3. Disassemble Front plate

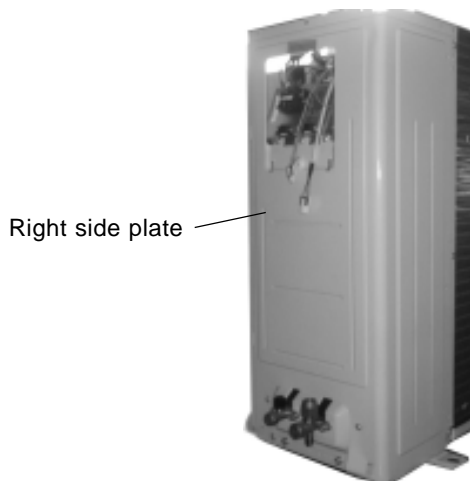
Unscrew the screws fixing the cabinet to remove it.



## Operating Procedures / Photos

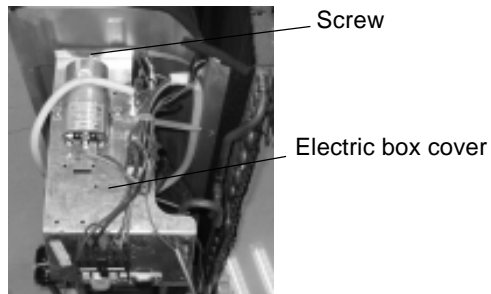
### 4. Disassemble Right side plate

Unscrew the 9 screws of the right side plate, then take down the right side plate.



### 5. Disassemble Electric Box Sub-assy

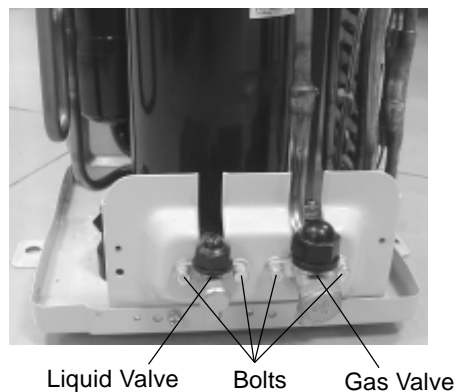
unscrew the screw of electric box, pull out the lead out insert of compressor, four-way valve and motor, then take down the electric box.



### 6. Disassemble Gas and Liquid Valves

Unsolder the pipeline connecting with valves ( to prevent soldering gun from burning out the chassis).Unscrew 2 bolts fixing gas valve ,and then unsolder the weld spot between pipeline and gas valve to remove gas valve. Unscrew the 2 bolts fixing liquid valve, and then unsolder the weld spots between pipeline and liquid valve to remove liquid valve.

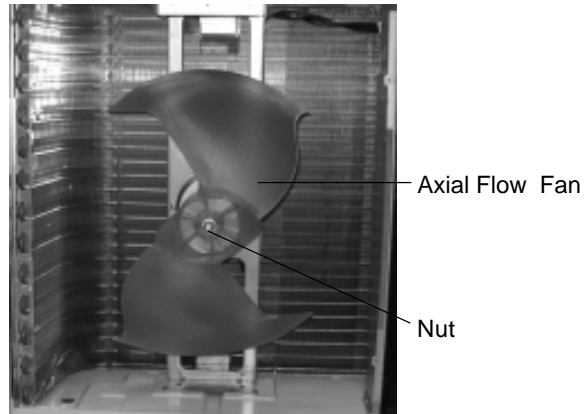
(Note:During unsoldering ,wrap the valves with wet cloth to avoid damage for high temperature.)



## Operating Procedures / Photos

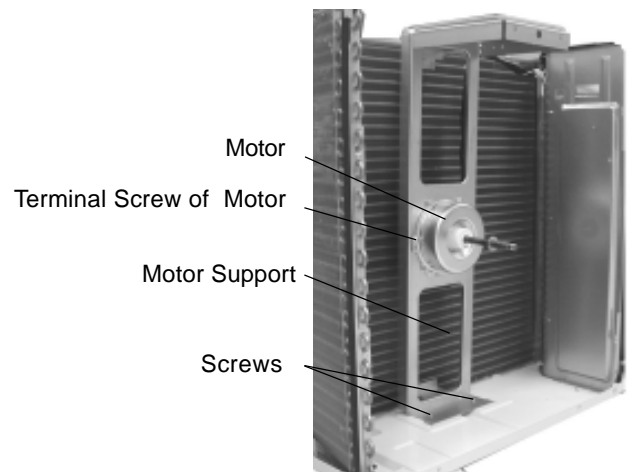
### 7. Disassemble Axial Flow Fan

Unscrew the nut fixing the fan with a spanner to take out the fan.



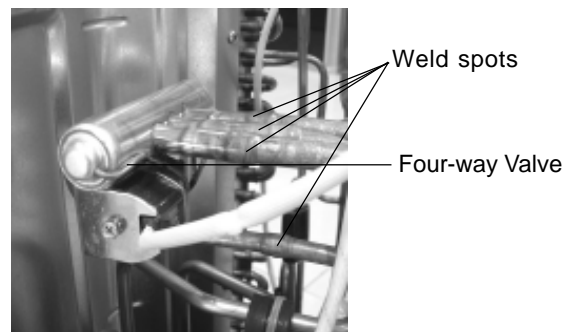
### 8. Disassemble Outdoor Motor

Unscrew the screws fixing the motor support, and then lift it upwards to remove it. Unscrew the screws fixing the motor and pull out the connection line between it and electric box to remove it.



### 9. Disassemble Four-way Valve

Only for cooling and heating unit  
Unscrew the fixing nut of the four-way valve coil and remove the coil. Wrap the four-way valve with wet cotton and unsolder the 4 weld spots connecting the four-way valve to take it out. Welding process should be as quick as possible and keep wrapping cotton wet all the time. Be sure not to burn out the lead-out wire of compressor.



## Operating Procedures / Photos

### 10. Disassemble Capillary

Unsolder the weld spots of capillary, valve and outlet pipe of condenser to remove the capillary. Prevent welding slag from blocking the capillary.



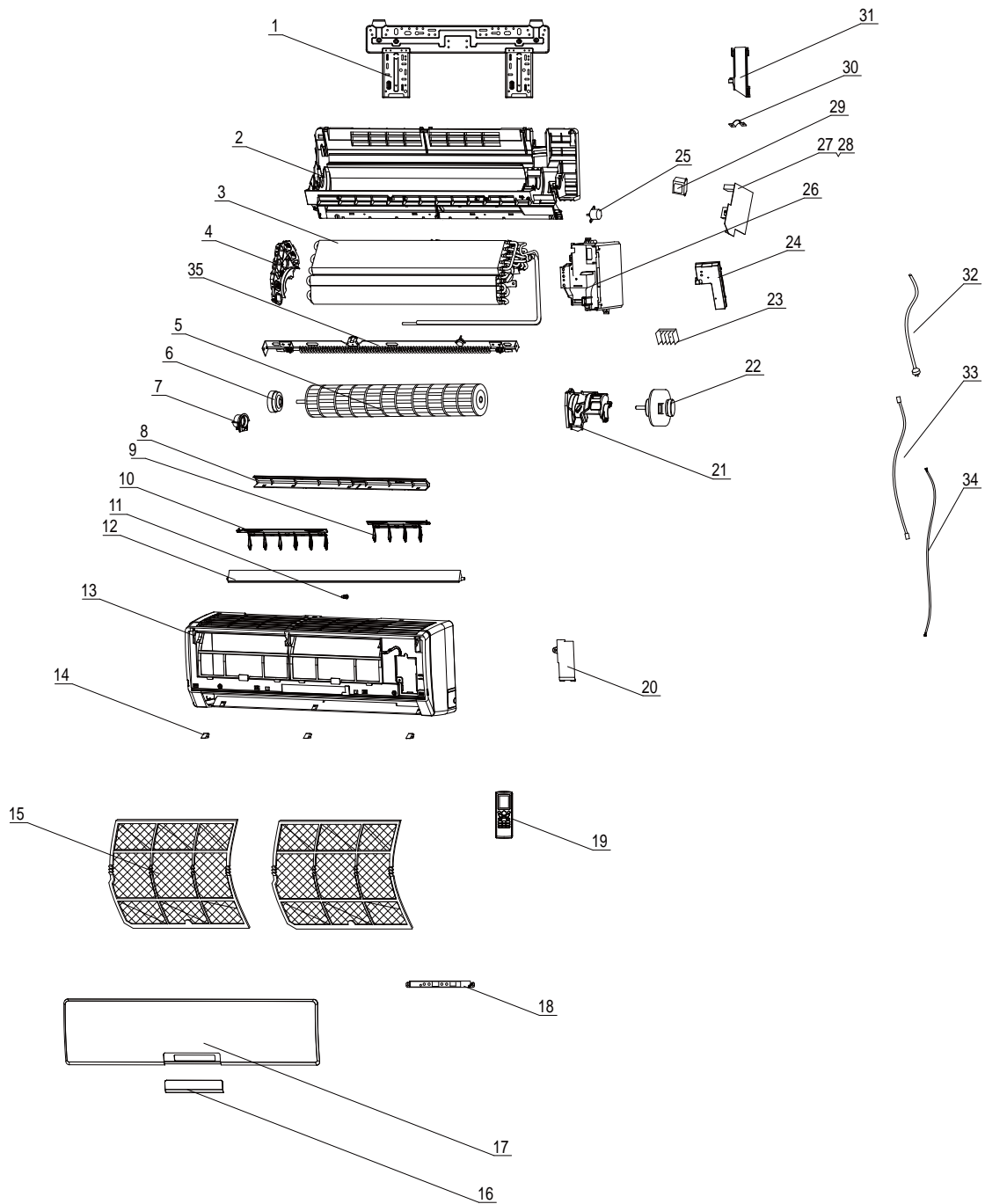
### 11. Disassemble Compressor

Unsolder the pipeline connecting the compressor, and then unscrew the 3 foot-nuts fixing compressor to remove it.



# 8 Explosive view and spare parts list

## 8.1 Exploded View of Components and Parts of Indoor unit 1



No	Description	Part Code			Qty
		GWC05MA-K1NNA9A/I	GWC07MA-K1NNA9A/I	GWC09MA-K1NNA9A/I	
1	Wall-Mounting Frame	01252015	01252015	01252015	1
2	Rear Case	2220245305	2220245305	2220245305	1
3	Evaporator Assy	0100255206	0100255902	0100255206	1
4	Evaporator Support	24212090	24212090	24212090	1
5	Cross Flow Fan	10352018	10352018	10352018	1
6	Ring of Bearing	76512203	76512203	76512203	1
7	Bearing cushion rubber base	26152022	26152022	26152022	1
8	Volute tongue	26112162	26112162	26112162	1
9	Swing Louver	10512113	10512113	10512113	1
10	Swing Louver	10512114	10512114	10512114	1
11	Axle Bush	10542008	10542008	10542008	1
12	Guide Louver1	10512111	10512111	10512111	1
13	Front Case	20012179	20012179	20012179	1
14	Screw Cover	24252016	24252016	24252016	3
15	Filter	11122081	11122081	11122081	2
16	Decorative board	/	/	/	/
	Double-side glue	/	/	/	/
17	Front Panel	2001219301S	2001219301S	2001219301S	1
18	Receiver Board	30565018	30565018	30565018	1
19	Remote Control YB1FA	30510041	30510041	30510041	1
20	Covering Plate	20122075	20122075	20122075	1
21	Motor Clamp	26112160	26112160	26112160	1
22	Motor FN10A-PG	15012078	15012078	15012078	1
23	Terminal Board	42010266	42010266	42010266	1
24	Electric Box Cover	20102848	20102848	20102848	1
25	Motor MP24AA	1521210801	1521210801	1521210801	1
26	Electric Box	20112064	20112064	20112064	1
27	Main PCB M518F1AJ	30035565	30035565	30035565	1
28	Jumping Connector	4202300128	4202300128	4202300128	1
29	Transformer 41X26.5G	43110236	43110236	43110236	1
30	Wire Clamp	71010103	71010103	71010103	1
31	Rear Clamp	26112164	26112164	26112164	1
32	Power Cord	4002048710	4002048710	4002048710	1
33	Connecting Cable	/	/	/	/
34	Signal Cable	40020540	40020540	40020540	1

No	Description	Part Code			Qty
		GWC09MA-K1NNA1A/I	GWH09MA-K1NNA1A/I	GWC09MA-K1NNA1B/I	
1	Wall-Mounting Frame	01252015	01252015	01252015	1
2	Rear Case	22202453	22202453	22202453	1
3	Evaporator Assy	0100255902	0100255902	0100255204	1
4	Evaporator Support	24212090	24212090	24212090	1
5	Cross Flow Fan	10352018	10352018	10352018	1
6	Ring of Bearing	76512203	76512203	76512203	1
7	Bearing cushion rubber base	26152022	26152022	26152022	1
8	Volute tongue	26112162	26112162	26112162	1
9	Swing Louver	10512113	10512113	10512113	1
10	Swing Louver	10512114	10512114	10512114	1
11	Axile Bush	10542008	10542008	10542008	1
12	Guide Louver1	10512111	10512111	10512111	1
13	Front Case	20012179	20012179	20012179	1
14	Screw Cover	24252016	24252016	24252016	3
15	Filter	11122081	11122081	11122081	2
16	Decorative board	22432157P	22432157P	22432157P	1
17	Front Panel	2001214301S	2001214301S	2001214301S	1
18	Receiver Board	30565008	30565008	30565008	1
19	Remote Control YB1FA	30510041	30510041	30510041	1
20	Covering Plate	20122075	20122075	20122075	1
21	Motor Clamp	26112160	26112160	26112160	1
22	Motor FN10A-PG	15012078	15012078	15012078	1
23	Terminal Board	42010266	42010262	42010266	1
24	Electric Box Cover	20102848	20102848	20102848	1
25	Motor MP24AA	1521210801	1521210801	1521210801	1
26	Electric Box	20112064	20112064	20112064	1
27	Main PCB	30135241	30135242	30135241	1
28	Jumping Connector	4202300128	4202300128	4202300128	1
29	Transformer 41X26.5G	43110236	43110236	43110236	1
30	Wire Clamp	71010103	71010103	71010103	1
31	Rear Clamp	26112164	26112164	26112164	1
32	Power Cord	4002048710	4002048710	4002048710	1
33	Connecting Cable	40020540	40020540	40020540	1
34	Signal Cable	/	40020536	/	1
35	Electric heater	/	/	/	/



No	Description	Part Code		Qty
		GWC09MA-K1NNA2A/I	GWH09MA-K1NNA2A/I	
1	Wall-Mounting Frame	01252015	01252015	1
2	Rear Case	22202453	22202453	1
3	Evaporator Assy	0100255902	0100255902	1
4	Evaporator Support	24212090	24212090	1
5	Cross Flow Fan	10352018	10352018	1
6	Ring of Bearing	76512203	76512203	1
7	Bearing cushion rubber base	26152022	26152022	1
8	Volute tongue	26112162	26112162	1
9	Swing Louver	10512113	10512113	1
10	Swing Louver	10512114	10512114	1
11	Axle Bush	10542008	10542008	1
12	Guide Louver1	10512111	10512111	1
13	Front Case	20012120	20012120	1
14	Screw Cover	24252016	24252016	3
15	Filter	11122081	11122081	2
16	Decorative board	20192265	20192265	1
17	Front Panel	20012142S	20012142S	1
18	Receiver Board	30565009	30565009	1
19	Remote Control YB1FA	30510041	30510041	1
20	Covering Plate	20122075	20122075	1
21	Motor Clamp	26112160	26112160	1
22	Motor FN10A-PG	15012078	15012078	1
23	Terminal Board	42010266	42010262	1
24	Electric Box Cover	20102848	20102848	1
25	Motor MP24AA	1521210801	1521210801	1
26	Electric Box	20112064	20112064	1
27	Main PCB	30035565	30035566	1
28	Jumping Connector	4202300128	4202300128	1
29	Transformer 41X26.5G	43110236	43110236	1
30	Wire Clamp	71010103	71010103	1
31	Rear Clamp	26112164	26112164	1
32	Power Cord	4002048710	4002048710	1
33	Connecting Cable	40020540	40020540	1
34	Signal Cable	/	40020536	1
35	Electric heater	/	/	/

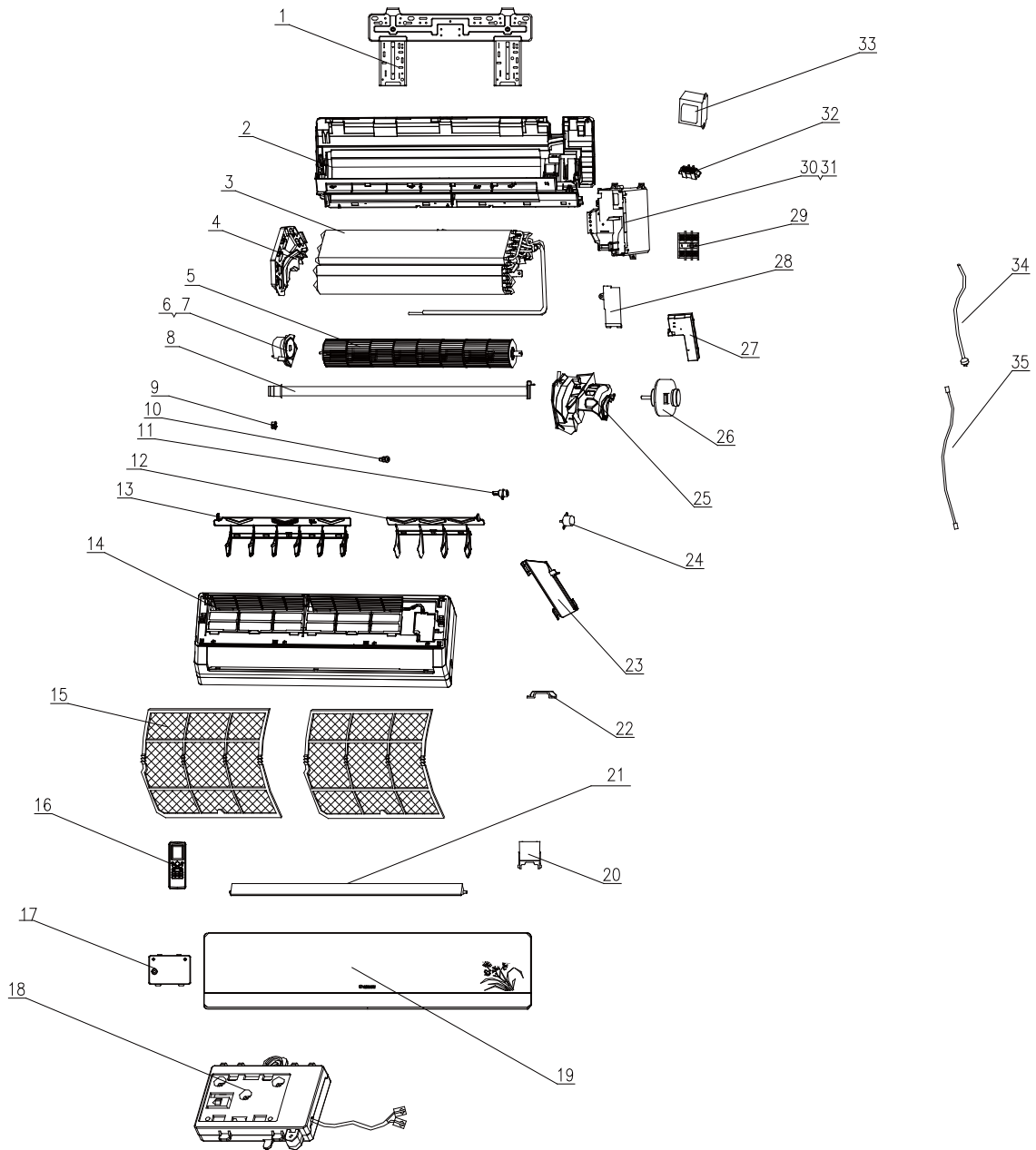
No	Description	Part Code			Qty
		GWC09MA-K1NNA3A/I	GWH09MA-K1NNA3A/I	GWC09MA-K1NNA3B/I	
1	Wall-Mounting Frame	01252015	01252015	01252015	1
2	Rear Case	22202453	22202453	22202453	1
3	Evaporator Assy	0100255902	0100255902	0100255204	1
4	Evaporator Support	24212090	24212090	24212090	1
5	Cross Flow Fan	10352018	10352018	10352018	1
6	Ring of Bearing	76512203	76512203	76512203	1
7	Bearing cushion rubber base	26152022	26152022	26152022	1
8	Volute tongue	26112162	26112162	26112162	1
9	Swing Louver	10512113	10512113	10512113	1
10	Swing Louver	10512114	10512114	10512114	1
11	Axle Bush	10542008	10542008	10542008	1
12	Guide Louver1	10512111	10512111	10512111	1
13	Front Case	20012120	20012120	20012120	1
14	Screw Cover	24252016	24252016	24252016	3
15	Filter	11122081	11122081	11122081	2
16	Decorative board	20192229	20192229	20192229	1
	Double-side glue	62262066	62262066	62262066	1
17	Front Panel	2001212101	2001212101	20012121S	1
18	Receiver Board	30565007	30565007	30565007	1
19	Remote Control YB1FA	30510041	30510041	30510041	1
20	Covering Plate	20122075	20122075	20122075	1
21	Motor Clamp	26112160	26112160	26112160	1
22	Motor FN10A-PG	15012088	15012088	15012078	1
23	Terminal Board	42010266	42010262	42010266	1
24	Electric Box Cover	20102848	20102848	20102848	1
25	Motor MP24AA	15212108	15212108	1521210801	1
26	Electric Box	20112064	20112064	20112064	1
27	Main PCB M518F1AJ	30035565	30035566	30035565	1
28	Jumping Connector	4202300128	4202300128	4202300128	1
29	Transformer 41X26.5G	43110236	43110236	43110236	1
30	Wire Clamp	71010103	71010103	71010103	1
31	Rear Clamp	26112164	26112164	26112164	1
32	Power Cord	4002048710	4002048710	4002048710	1
33	Connecting Cable	40020540	40020540	40020540	1
34	Signal Cable	/	40020536	/	/
35	Electric heater	/	/	/	/

No	Description	Part Code		Qty
		GWC09MA-K1NNA5A/I	GWH09MA-K1NNA5A/I	
1	Wall-Mounting Frame	01252015	01252015	1
2	Rear Case	22202453	22202453	1
3	Evaporator Assy	0100255902	0100255902	1
4	Evaporator Support	24212090	24212090	1
5	Cross Flow Fan	10352018	10352018	1
6	Ring of Bearing	76512203	76512203	1
7	Bearing cushion rubber base	26152022	26152022	1
8	Volute tongue	26112162	26112162	1
9	Swing Louver	10512113	10512113	1
10	Swing Louver	10512114	10512114	1
11	Axle Bush	10542008	10542008	1
12	Guide Louver1	10512111	10512111	1
13	Front Case	20012120	20012120	1
14	Screw Cover	24252016	24252016	3
15	Filter	11122081	11122081	2
16	Decorative board	/	/	1
17	Front Panel	20012196S	20012196S	1
18	Display Board	30565026	30565026	1
19	Remote Control YB1FA	30510041	30510041	1
20	Covering Plate	20122075	20122075	1
21	Motor Clamp	26112160	26112160	1
22	Motor FN10A-PG	15012078	15012078	1
23	Terminal Board	42010266	42010262	1
24	Electric Box Cover	20102848	20102848	1
25	Motor MP24AA	1521210801	1521210801	1
26	Electric Box	20112064	20112064	1
27	Main PCB	30035565	30035566	1
28	Jumping Connector	4202300128	4202300128	1
29	Transformer 41X26.5G	43110236	43110236	1
30	Wire Clamp	71010103	71010103	1
31	Rear Clamp	26112164	26112164	1
32	Power Cord	4002048710	4002048710	1
33	Connecting Cable	40020540	40020540	1
34	Signal Cable	/	40020536	1
35	Electric heater	/	/	/

No	Description	Part Code		Qty
		GWC09MA-K1NNA4A/I	GWH09MA-K1NNA4A/I	
1	Wall-Mounting Frame	01252015	01252015	1
2	Rear Case	22202453	22202453	1
3	Evaporator Assy	0100255902	0100255902	1
4	Evaporator Support	24212090	24212090	1
5	Cross Flow Fan	10352018	10352018	1
6	Ring of Bearing	76512203	76512203	1
7	Bearing cushion rubber base	26152022	26152022	1
8	Volute tongue	26112162	26112162	1
9	Swing Louver	10512113	10512113	1
10	Swing Louver	10512114	10512114	1
11	Axile Bush	10542008	10542008	1
12	Guide Louver1	10512111	10512111	1
13	Front Case	20012120	20012120	1
14	Screw Cover	24252016	24252016	3
15	Filter	11122081	11122081	2
16	Decorative board	2019223801	2019223801	1
17	Front Panel	20012151S	20012151S	1
18	Receiver Board	30565012	30565012	1
19	Remote Control YB1FA	30510041	30510041	1
20	Covering Plate	20122075	20122075	1
21	Motor Clamp	26112160	26112160	1
22	Motor FN10A-PG	15012078	15012078	1
23	Terminal Board	42010266	42010262	1
24	Electric Box Cover	20102848	20102848	1
25	Motor MP24AA	1521210801	1521210801	1
26	Electric Box	20112064	20112064	1
27	Main PCB	30035565	30035566	1
28	Jumping Connector	4202300128	4202300128	1
29	Transformer 41X26.5G	43110236	43110236	1
30	Wire Clamp	71010103	71010103	1
31	Rear Clamp	26112164	26112164	1
32	Power Cord	4002048710	4002048710	1
33	Connecting Cable	40020540	40020540	1
34	Signal Cable	/	40020536	1
35	Electric heater	/	/	/

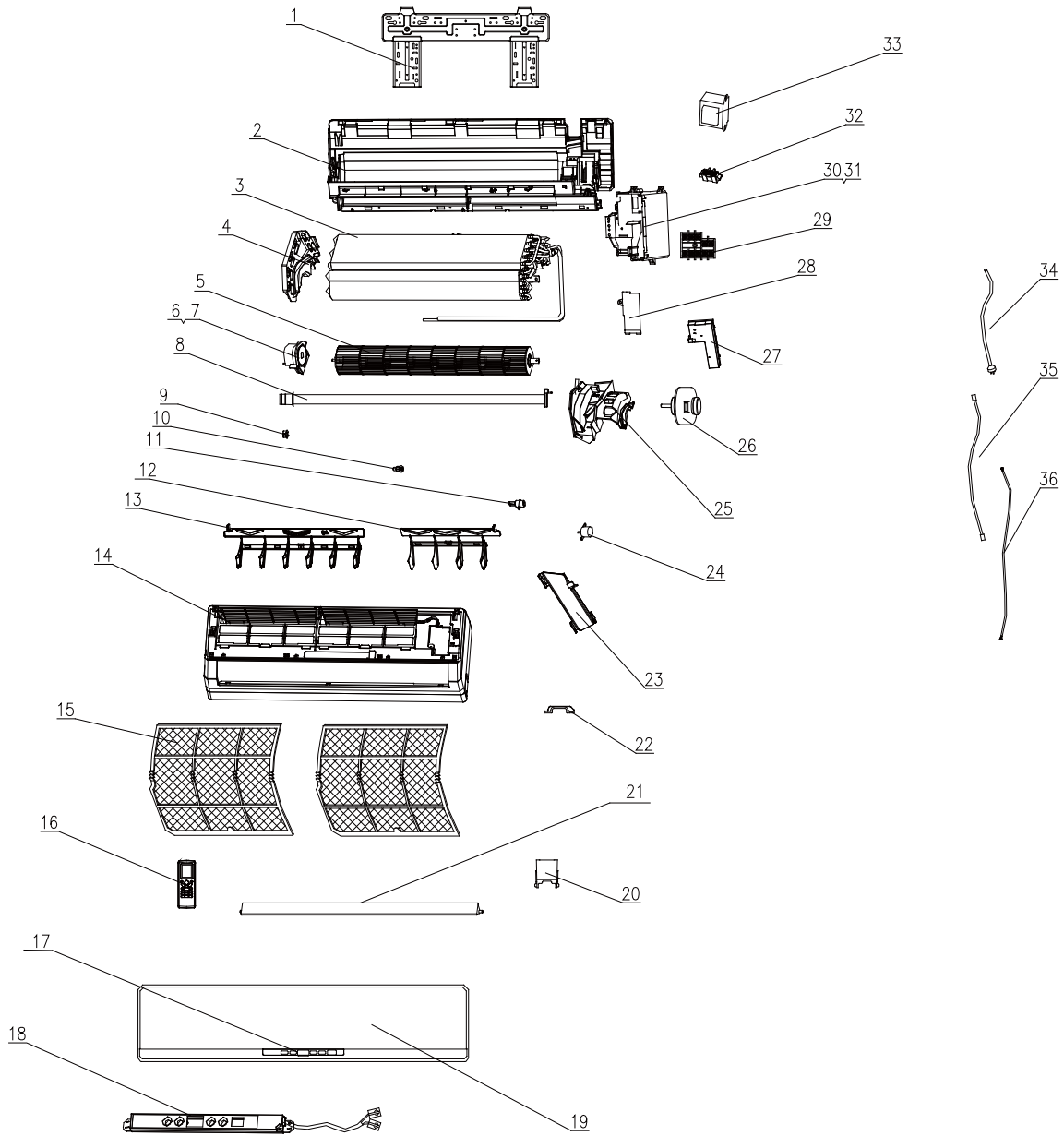
No	Description	Part Code	Qty
		GWC09MA-K1NNA8AI	
1	Wall-Mounting Frame	01252015	1
2	Rear Case	22202453	1
3	Evaporator Assy	0100255204	1
4	Evaporator Support	24212090	1
5	Cross Flow Fan	10352018	1
6	Ring of Bearing	76512203	1
7	Bearing cushion rubber base	26152022	1
8	Volute tongue	26112162	1
9	Swing Louver	10512113	1
10	Swing Louver	10512114	1
11	Axle Bush	10542008	1
12	Guide Louver1	10512111	1
13	Front Case	20012179	1
14	Screw Cover	24252016	3
15	Filter	11122081	2
16	Decorative board	22432276	1
17	Front Panel	20012198S	1
18	Receiver Board	30540015	1
19	Remote Control YB1FA	30510041	1
20	Covering Plate	20122075	1
21	Motor Clamp	26112160	1
22	Motor FN10A-PG	15012078	1
23	Terminal Board	42010266	1
24	Electric Box Cover	20102848	1
25	Motor MP24AA	1521210801	1
26	Electric Box	20112064	1
27	Main PCB	30035565	1
28	Jumping Connector	4202300128	1
29	Transformer 41X26.5G	43110236	1
30	Wire Clamp	71010103	1
31	Rear Clamp	26112164	1
32	Power Cord	4002048710	1
33	Connecting Cable	40020540	1
34	Signal Cable	/	1
35	Electric heater	/	/

## 8.2 Exploded View of Components and Parts of Indoor unit 2



No	Description	Part Code			Qty
		GWC12MB-K1NNA1A/I	GWH12MB-K1NNA1A/I	GWC12MB-K1NNA1B/I	
1	Wall-Mounting Frame	01252013	01252013	01252013	1
2	Rear Case	2220245401	2220245401	2220245401	1
3	Evaporator Assy	0100255802	0100256402	0100256501	1
4	Evaporator Support	24212091	24212091	24212091	1
5	Cross Flow Fan	10352017	10352017	10352017	1
6	Ring of Bearing	26152022	26152022	26152022	1
7	Bearing cushion rubber base	76512203	76512203	76512203	1
8	Volute tongue	26112163	26112163	26112163	1
9	Left Axile Bush	10512037	10512037	10512037	1
10	Crank	10582070	10582070	10582070	1
11	Axile Bush	10542008	10542008	10542008	1
12	Swing Louver1	10512156	10512156	10512156	1
13	Swing Louver2	10512155	10512155	10512155	1
14	Front Case	2001212301	2001212301	2001212301	1
15	Filter	1112220401	1112220401	1112220401	2
16	Remote Control YB1FA	30510041	30510041	30510041	1
17	Decorative board	22432157	22432157	22432157	1
18	Receiver Board D5185	30565008	30565008	30565008	1
19	Front Panel	20012145	20012145	20012145	1
20	Screw Cover	24252016	24252016	24252016	1
21	Guide Louver	10512157	10512157	10512157	1
22	Wire Clamp	71010003	71010003	71010003	1
23	Rear Clamp	26112164	26112164	26112164	1
24	Motor MP24AA	1521210801	1521210801	1521210801	1
25	Motor Clamp	26112161	26112161	26112161	1
26	Motor FN20J-PG	150120874	150120874	150120874	1
27	Electric Box Cover 1	20102848	20102848	20102848	1
28	Covering Plate2	20122075	20122075	20122075	1
29	Terminal Board	42010266	42010262	42010266	1
30	Electric Box	20112064	20112064	20112064	1
31	Main PCB	30135241	30135242	30135241	1
32	Jumping Connector	4202300130	4202300130	4202300130	1
33	Transformer 41X26.5G	43110236	43110236	43110236	1
34	Power Cable	4002048712	4002048712	4002048712	1
35	Connecting Cable	400205401	400205401	400205401	1
36	Connecting Cable	/	40020536	/	1

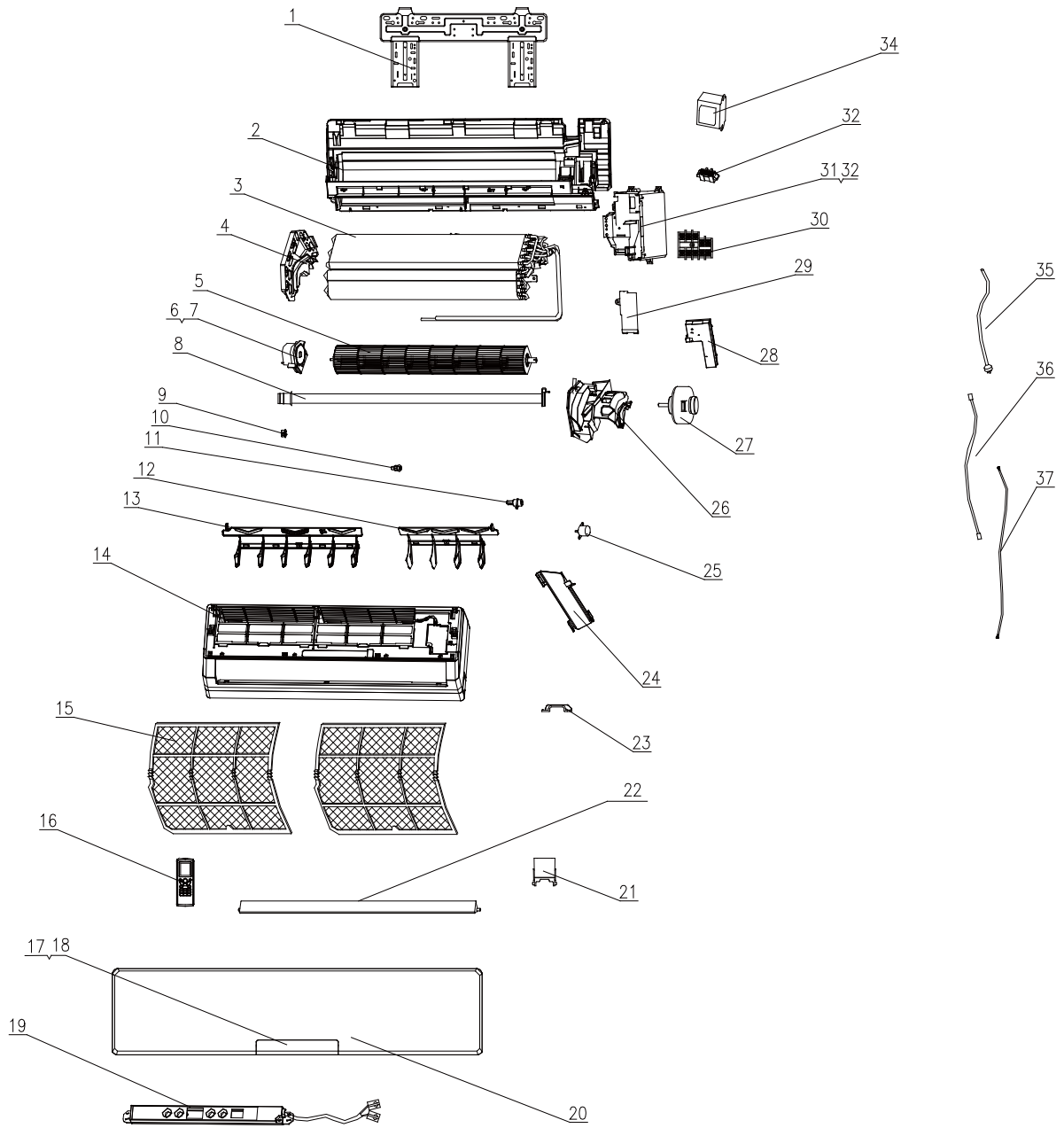
### 8.3 Exploded View of Components and Parts of Indoor unit 3





No	Description	Part Code		Qty
		GWC12MB-K1NNA2A/I	GWH12MB-K1NNA2A/I	
1	Wall-Mounting Frame	01252013	01252013	1
2	Rear Case	2220245401	2220245401	1
3	Evaporator Assy	0100255802	0100255802	1
4	Evaporator Support	24212091	24212091	1
5	Cross Flow Fan	10352017	10352017	1
6	Ring of Bearing	26152022	26152022	1
7	Bearing cushion rubber base	76512203	76512203	1
8	Volute tongue	26112163	26112163	1
9	Left Axile Bush	10512037	10512037	1
10	Crank	10582070	10582070	1
11	Axile Bush	10542008	10542008	1
12	Swing Louver1	10512156	10512156	1
13	Swing Louver2	10512155	10512155	1
14	Front Case	20012123	20012123	1
15	Filter	1112220401	1112220401	2
16	Remote Control YB1FA	305100412	305100412	1
17	Decorate Piece	2019223401	2019223401	1
18	Receiver Board D5183A	30565009	30565009	1
19	Front Panel	20012150	20012150	1
20	Screw Cover	24252016	24252016	1
21	Guide Louver	10512157	10512157	1
22	Wire Clamp	71010003	71010003	1
23	Rear Clamp	26112164	26112164	1
24	Motor MP24AA	1521210801	1521210801	1
25	Motor Clamp	26112161	26112161	1
26	Motor FN20J-PG	150120874	150120874	1
27	Electric Box Cover 1	20102848	20102848	1
28	Covering Plate2	20122075	20122075	1
29	Terminal Board	42010266	42010262	1
30	Electric Box	20112064	20112064	1
31	Main PCB	30035565	30035566	1
32	Jumping Connector	4202300130	4202300130	1
33	Transformer 41X26.5G	43110236	43110236	1
34	Power Cable	4002048712	4002048712	1
35	Connecting Cable	400205401	400205401	1
36	Signal Cable	/	40020536	1

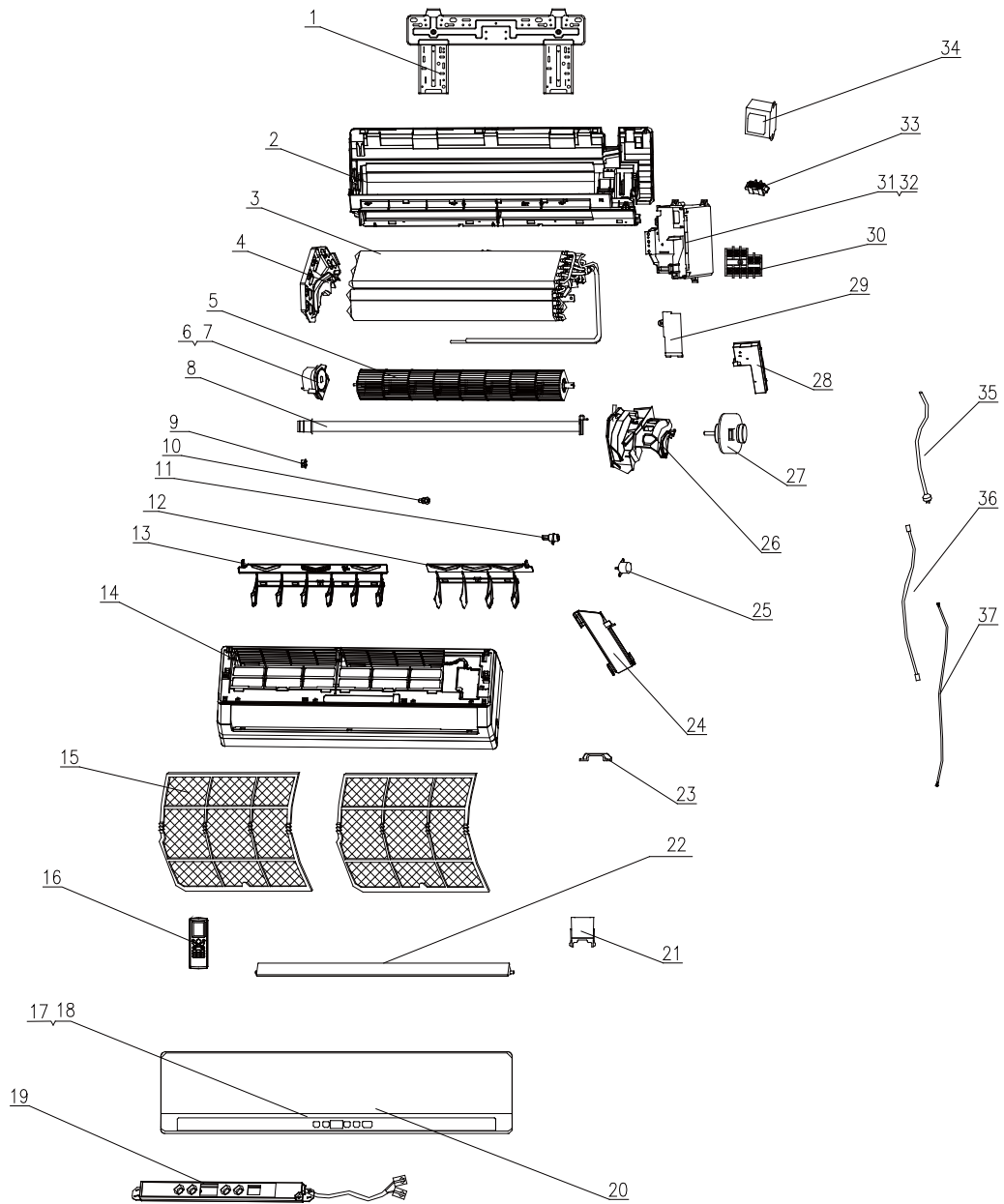
## 8.4 Exploded View of Components and Parts of Indoor unit 4



No	Description	Part Code			Qty
		GWC12MB-K1NNA3A/I	GWH12MB-K1NNA3A/I	GWC12MB-K1NNA3B/I	
1	Wall-Mounting Frame	01252013	01252013	01252013	1
2	Rear Case	2220245401	2220245401	2220245401	1
3	Evaporator Assy	0100255802	0100255802	0100256501	1
4	Evaporator Support	24212091	24212091	24212091	1
5	Cross Flow Fan	10352017	10352017	10352017	1
6	Bearing cushion rubber base	26152022	26152022	26152022	1
7	Ring of Bearing	76512203	76512203	76512203	1
8	Volute tongue	26112163	26112163	26112163	1
9	Left Axile Bush	10512037	10512037	10512037	1
10	Crank	10582070	10582070	10582070	1
11	Axile Bush	10542008	10542008	10542008	1
12	Swing Louver1	10512156	10512156	10512156	1
13	Swing Louver2	10512155	10512155	10512155	1
14	Front Case	20012123	20012123	20012123	1
15	Filter	1112220401	1112220401	1112220401	2
16	Remote Control YB1FA	30510041	30510041	30510041	1
17	Decorative board	22432156	22432156	22432156	1
18	Double-side glue	55112004	55112004	55112004	1
19	Receiver Board D5183	30565007	30565007	30565007	1
20	Front Panel	20012122	20012122	20012122	1
21	Screw Cover	24252016	24252016	24252016	1
22	Guide Louver	10512157	10512157	10512157	1
23	Wire Clamp	71010003	71010003	71010003	1
24	Rear Clamp	26112164	26112164	26112164	1
25	Motor MP24AA	1521210801	1521210801	1521210801	1
26	Motor Clamp	26112161	26112161	26112161	1
27	Motor FN20J-PG	150120874	150120874	150120874	1
28	Electric Box Cover 1	20102848	20102848	20102848	1
29	Covering Plate2	20122075	20122075	20122075	1
30	Terminal Board	42010266	42010262	42010266	1
31	Electric Box	20112064	20112064	20112064	1
32	Main PCB	30035565	30035566	30035565	1
33	Jumping Connector	4202300130	4202300130	4202300130	1
34	Transformer 41X26.5G	43110236	43110236	43110236	1
35	Power Cable	4002048712	4002048712	4002048712	1
36	Connecting Cable	400205401	400205401	400205401	1
37	Signal Cable	/	40020536	/	1

The above data are subject to be changed without notice.

## 8.5 Exploded View of Components and Parts of Indoor unit 5

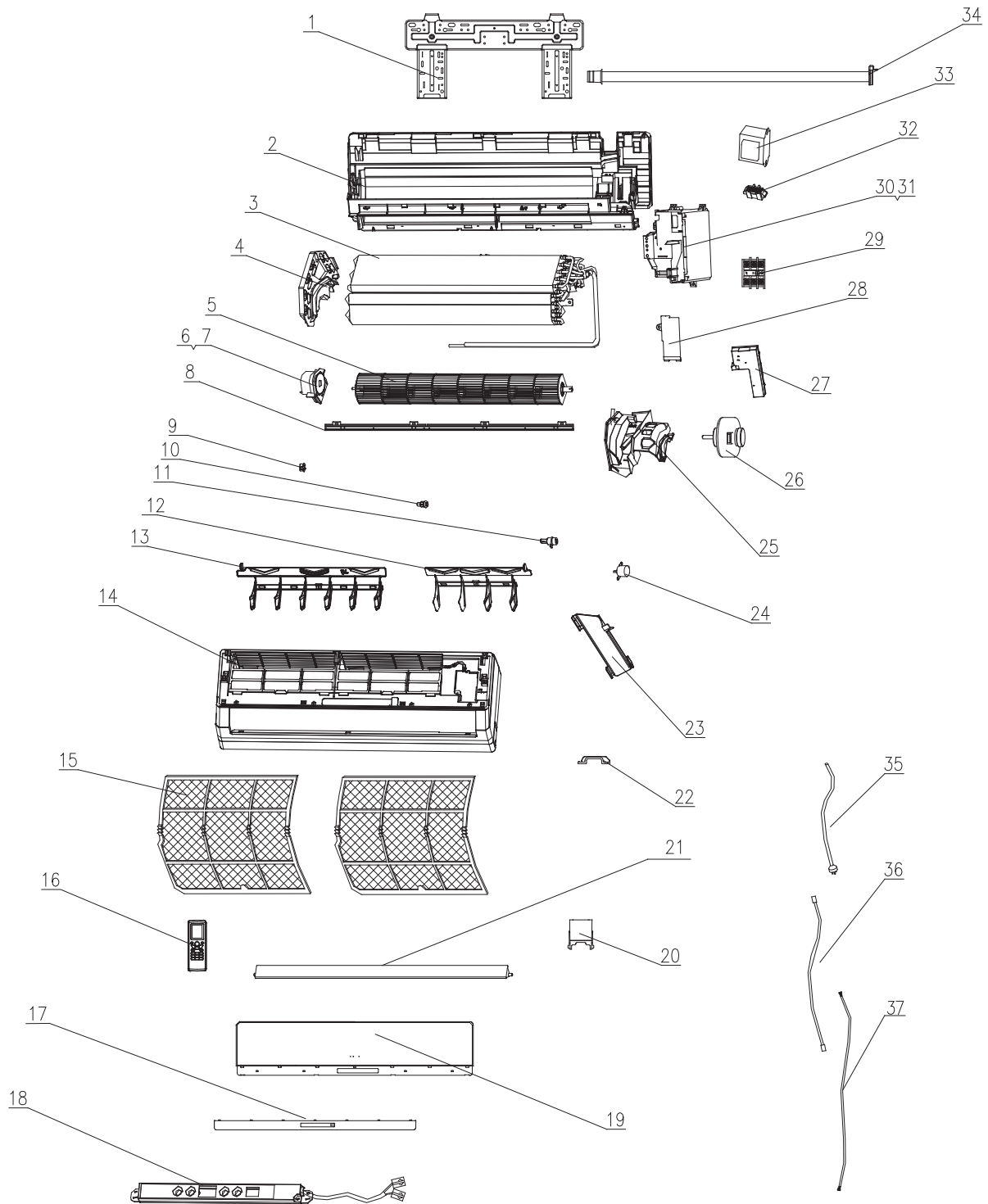


No	Description	Part Code		Qty
		GWC12MB-K1NNA4AI	GWH12MB-K1NNA4AI	
1	Wall-Mounting Frame	01252013	01252013	1
2	Rear Case	2220245401	2220245401	1
3	Evaporator Assy	0100255802	0100255802	1
4	Evaporator Support	24212091	24212091	1
5	Cross Flow Fan	10352017	10352017	1
6	Bearing cushion rubber base	26152022	26152022	1
7	Ring of Bearing	76512203	76512203	1
8	Volute tongue	26112163	26112163	1
9	Left Axile Bush	10512037	10512037	1
10	Crank	10582070	10582070	1
11	Axile Bush	10542008	10542008	1
12	Swing Louver1	10512156	10512156	1
13	Swing Louver2	10512155	10512155	1
14	Front Case	20012123	20012123	1
15	Filter	1112220401	1112220401	2
16	Remote Control YB1FA	305100412	305100412	1
17	Decorate Piece	2019223601	2019223601	1
18	Double-side glue	55112004	55112004	1
19	Receiver Board D5183B	30565012	30565012	1
20	Front Panel	20012153	20012153	1
21	Screw Cover	24252016	24252016	1
22	Guide Louver	10512157	10512157	1
23	Wire Clamp	71010003	71010003	1
24	Rear Clamp	26112164	26112164	1
25	Motor MP24AA	1521210801	1521210801	1
26	Motor Clamp	26112161	26112161	1
27	Motor FN20J-PG	150120874	150120874	1
28	Electric Box Cover 1	20102848	20102848	1
29	Covering Plate2	20122075	20122075	1
30	Terminal Board	42010266	42010262	1
31	Electric Box	20112064	20112064	1
32	Main PCB	30035565	30035566	1
33	Jumping Connector	4202300130	4202300130	1
34	Transformer 41X26.5G	43110236	43110236	1
35	Power Cable	4002048712	4002048712	1
36	Connecting Cable	400205401	400205401	1
37	Signal Cable	/	40020536	1

The above data are subject to be changed without notice.

No	Description	Part Code		Qty
		GWC18MB-K1NNA4A/I	GWH18MB-K1NNA4A/I	
1	Wall-Mounting Frame	01252013	01252013	1
2	Rear Case	2220245401	2220245401	1
3	Evaporator Assy	0100256501	0100256501	1
4	Evaporator Support	24212091	24212091	1
5	Cross Flow Fan	10352017	10352017	1
6	Bearing cushion rubber base	26152022	26152022	1
7	Ring of Bearing	76512203	76512203	1
8	Volute tongue	26112163	26112163	1
9	Left Axle Bush	10512037	10512037	1
10	Crank	10582070	10582070	1
11	Axle Bush	10542008	10542008	1
12	Swing Louver1	10512156	10512156	1
13	Swing Louver2	10512155	10512155	1
14	Front Case	20012123	20012123	1
15	Filter	1112220401	1112220401	2
16	Remote Control YB1FA	30510041	30510041	1
17	Decorative Board	2019223601	2019223601	1
18	Double-side glue	55112004	55112004	1
19	Display Board D5183B	30565012	30565012	1
20	Front Panel	20012153S	20012153S	1
21	Screw Cover	24252016	24252016	1
22	Guide Louver	10512157	10512157	1
23	Wire Clamp	71010003	71010003	1
24	Rear Clamp	26112164	26112164	1
25	Motor MP24AA	1521210801	1521210801	1
26	Motor Clamp	26112161	26112161	1
27	Motor FN20J-PG	150120874	150120874	1
28	Electric Box Cover 1	20102848	20102848	1
29	Covering Plate2	20122075	20122075	1
30	Terminal Board	42010266	42010262	1
31	Electric Box	20112064	20112064	1
32	Main PCB	30135282	30135283	1
33	Jumping Connector	4202300130	4202300130	1
34	Transformer	43110236	43110236	1
35	Power Cable	4002048712	4002048712	1
36	Connecting Cable	400205401	400205401	1
37	Signal Cable	/	40020536	1

**8.6 Exploded View of Components and Parts of Indoor unit 6**

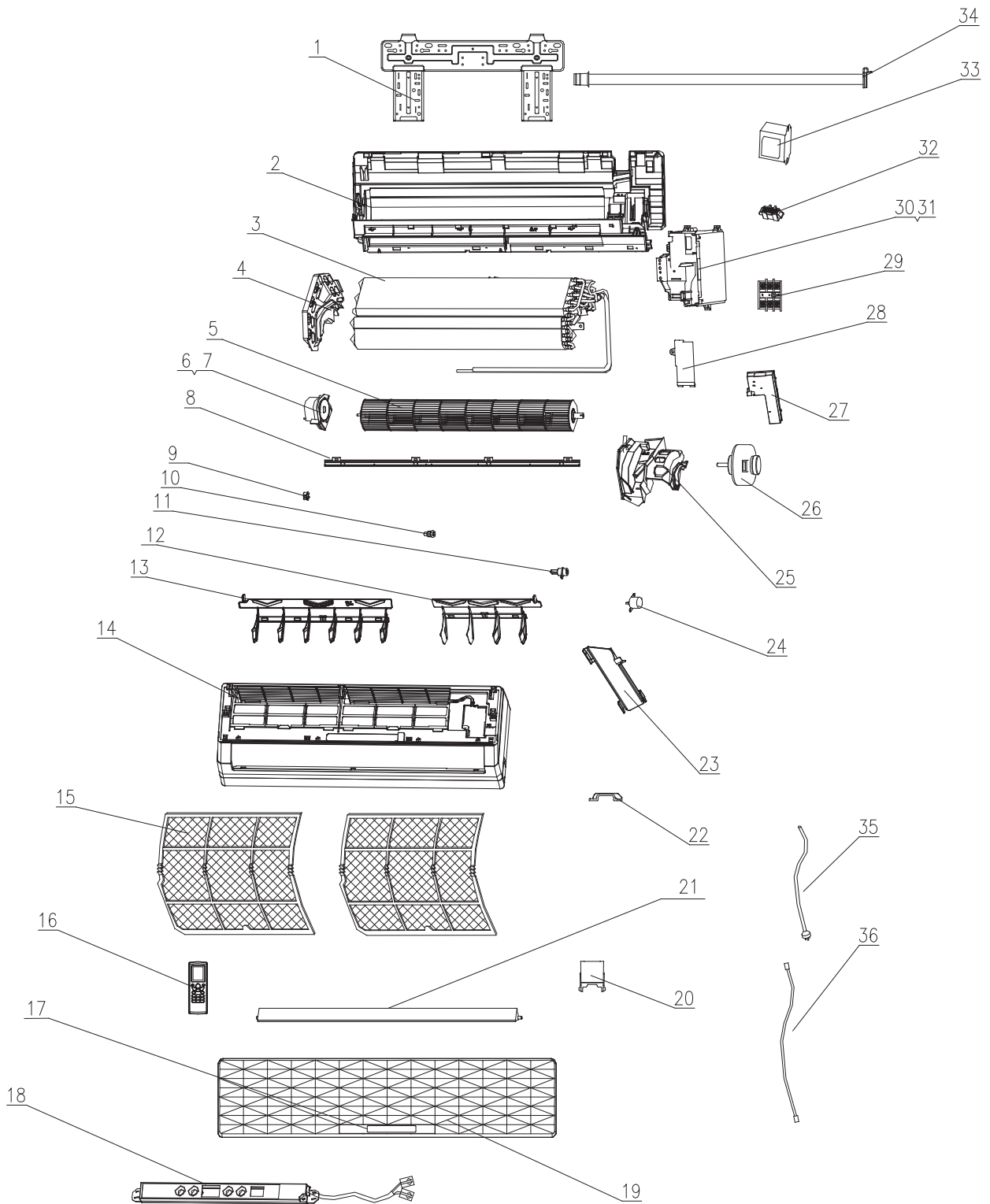


No	Description	Part Code		Qty
		GWC12MB-K1NNA5A/I	GWH12MB-K1NNA5A/I	
1	Wall-Mounting Frame	01252013	01252013	1
2	Rear Case	2220245401	2220245401	1
3	Evaporator Assy	0100256402	0100256402	1
4	Evaporator Support	24212091	24212091	1
5	Cross Flow Fan	10352017	10352017	1
6	Bearing cushion rubber base	26152022	26152022	1
7	Ring of Bearing	76512203	76512203	1
8	Volute tongue	26112163	26112163	1
9	Left Axle Bush	10512037	10512037	1
10	Crank	10582070	10582070	1
11	Axle Bush	10542008	10542008	1
12	Swing Louver1	10512156	10512156	1
13	Swing Louver2	10512155	10512155	1
14	Front Case	20012123	20012123	1
15	Filter	1112220401	1112220401	2
16	Remote Control YB1FA	30510041	30510041	1
17	Decorate Piece	20192247	20192247	1
18	Receiver Board D518K	30565026	30565026	1
19	Front Panel	20012199	20012199	1
20	Screw Cover	24252016	24252016	1
21	Guide Louver	10512157	10512157	1
22	Wire Clamp	71010003	71010003	1
23	Rear Clamp	26112164	26112164	1
24	Motor MP24AA	1521210801	1521210801	1
25	Motor Clamp	26112161	26112161	1
26	Motor FN20J-PG	150120874	150120874	1
27	Electric Box Cover 1	20102848	20102848	1
28	Covering Plate2	20122075	20122075	1
29	Terminal Board	42010266	42010266	1
30	Electric Box	20112064	20112064	1
31	Main PCB M518F2KJ	30035565	30035566	1
32	Jumping Connector	4202300130	4202300130	1
33	Transformer 41X26.5G	43110236	43110236	1
34	Drainage pipe	0523001401	0523001401	1
35	Power Cable	4002048712	4002048712	1
36	Connecting Cable	400205401	400205401	1
37	Signal Cable	/	40020536	1



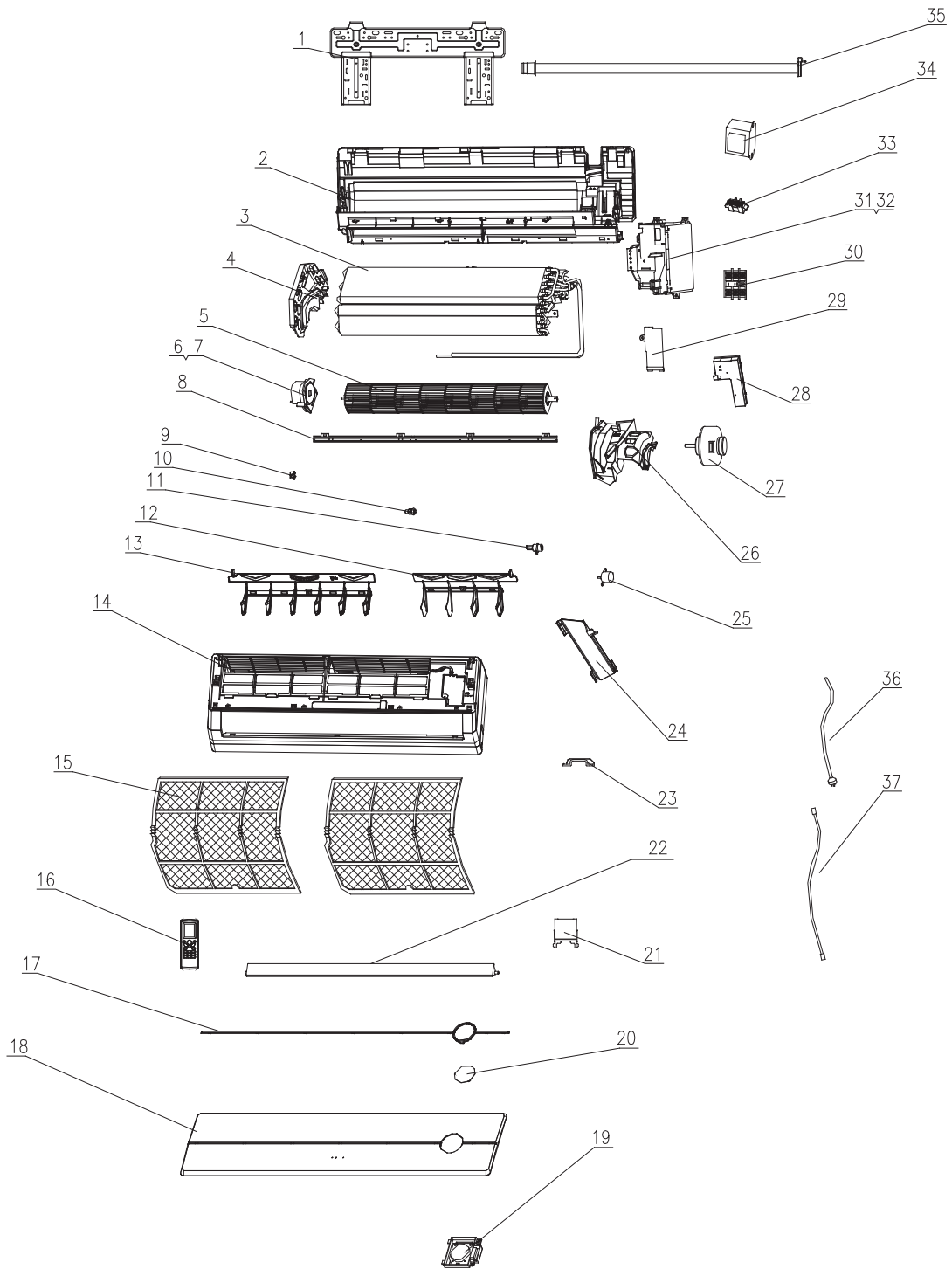
No	Description	Part Code		Qty
		GWC18MB-K1NNA5A/I	GWH18MB-K1NNA5A/I	
1	Wall-Mounting Frame	01252013	01252013	1
2	Rear Case	2220245401	2220245401	1
3	Evaporator Assy	0100256501	0100256501	1
4	Evaporator Support	24212091	24212091	1
5	Cross Flow Fan	10352017	10352017	1
6	Bearing cushion rubber base	26152022	26152022	1
7	Ring of Bearing	76512203	76512203	1
8	Volute tongue	26112163	26112163	1
9	Left Axle Bush	10512037	10512037	1
10	Crank	10582070	10582070	1
11	Axle Bush	10542008	10542008	1
12	Swing Louver1	10512156	10512156	1
13	Swing Louver2	10512155	10512155	1
14	Front Case	20012123	20012123	1
15	Filter	1112220401	1112220401	2
16	Remote Control YB1FA	30510041	30510041	1
17	Decorate Piece	20192247	20192247	1
18	Receiver Board D518K	30565026	30565026	1
19	Front Panel	20012199	20012199	1
20	Screw Cover	24252016	24252016	1
21	Guide Louver	10512157	10512157	1
22	Wire Clamp	71010003	71010003	1
23	Rear Clamp	26112164	26112164	1
24	Motor MP24AA	1521210801	1521210801	1
25	Motor Clamp	26112161	26112161	1
26	Motor FN20J-PG	150120874	150120874	1
27	Electric Box Cover 1	20102848	20102848	1
28	Covering Plate2	20122075	20122075	1
29	Terminal Board	42010266	42010266	1
30	Electric Box	20112064	20112064	1
31	Main PCB M518F2KJ	30135282	30135283	1
32	Jumping Connector	4202300130	4202300130	1
33	Transformer 41X26.5G	43110236	43110236	1
34	Drainage pipe	0523001401	0523001401	1
35	Power Cable	4002048712	4002048712	1
36	Connecting Cable	400205401	400205401	1
37	Signal Cable	/	40020536	1

## 8.7 Exploded View of Components and Parts of Indoor unit 7



No	Description	Part Code		Qty
		GWC12MB-K1NNA7A/I	GWC12MB-K1NNA7B/I	
1	Wall-Mounting Frame	01252013	01252013	1
2	Rear Case	2220245401	2220245401	1
3	Evaporator Assy	0100256402	0100256501	1
4	Evaporator Support	24212091	24212091	1
5	Cross Flow Fan	10352017	10352017	1
6	Bearing cushion rubber base	26152022	26152022	1
7	Ring of Bearing	76512203	76512203	1
8	Volute tongue	26112163	26112163	1
9	Left Axle Bush	10512037	10512037	1
10	Crank	10582070	10582070	1
11	Axle Bush	10542008	10542008	1
12	Swing Louver1	10512156	10512156	1
13	Swing Louver2	10512155	10512155	1
14	Front Case	20012123	20012123	1
15	Filter	1112220401	1112220401	2
16	Remote Control	30510041	30510041	1
17	Decorative board Assy	22432161	22432161	1
18	Receiver Board	30565030	30565030	1
19	Front Panel	20012189S	20012189S	1
20	Screw Cover	24252016	24252016	1
21	Guide Louver	10512157	10512157	1
22	Wire Clamp	71010003	71010003	1
23	Rear Clamp	26112164	26112164	1
24	Motor MP24AA	1521210801	1521210801	1
25	Motor Clamp	26112161	26112161	1
26	Motor	150120874	150120874	1
27	Electric Box Cover 1	20102848	20102848	1
28	Covering Plate2	20122075	20122075	1
29	Terminal Board	42010266	42010266	1
30	Electric Box	20112064	20112064	1
31	Main PCB	30035565	30035565	1
32	Jumping Connector	4202300130	4202300130	1
33	Transformer 41X26.5G	43110236	43110236	1
34	Drainage pipe	0523001401	0523001401	1
35	Power Cable	4002048712	4002048712	1
36	Connecting Cable	400205401	400205401	1

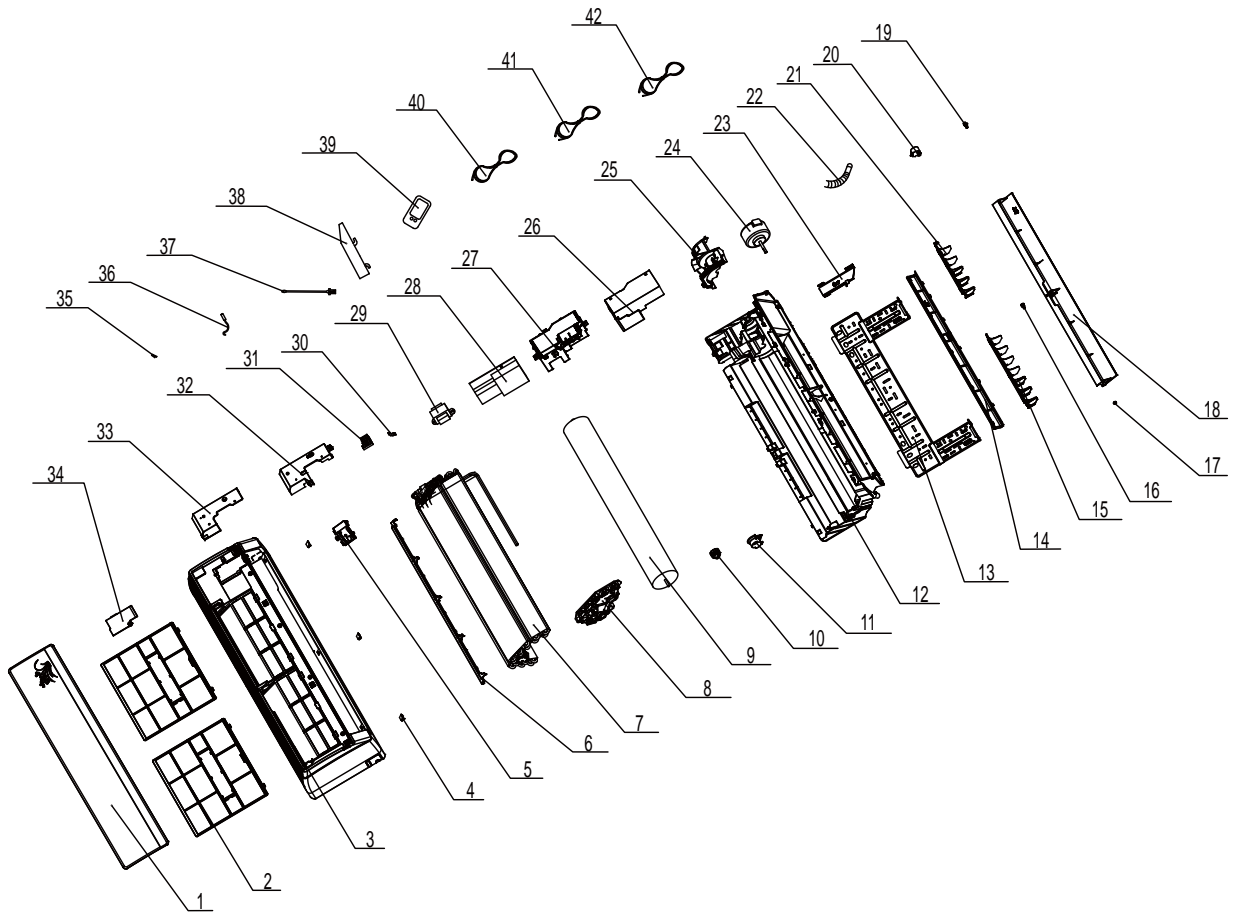
## 8.8 Exploded View of Components and Parts of Indoor unit 8



No	Description	Part Code			Qty
		GWC12MB-K1NNA8A/I	GWH12MB-K1NNA8A/I	GWC12MB-K1NNA8B/I	
1	Wall-Mounting Frame	01252013	01252013	01252013	1
2	Rear Case	2220245401	2220245401	2220245401	1
3	Evaporator Assy	0100256402	0100256402	0100256501	1
4	Evaporator Support	24212091	24212091	24212091	1
5	Cross Flow Fan	10352017	10352017	10352017	1
6	Bearing cushion rubber base	26152022	26152022	26152022	1
7	Ring of Bearing	76512203	76512203	76512203	1
8	Volute tongue	26112163	26112163	26112163	1
9	Left Axile Bush	10512037	10512037	10512037	1
10	Crankshaft	10582070	10582070	10582070	1
11	Axile Bush	10542008	10542008	10542008	1
12	Swing Louver1	10512156	10512156	10512156	1
13	Swing Louver2	10512155	10512155	10512155	1
14	Front Case	2001212301	2001212301	2001212301	1
15	Filter	1112220401	1112220401	1112220401	2
16	Remote Control YB1FA	30510041	30510041	30510041	1
17	Decorate Piece	20192244D	20192244D	20192244D	1
18	Front Panel	20012200S	20012200S	20012200S	1
19	Display Board	30540015	30540015	30540015	1
20	Transparent Mirror	22432276	22432230	22432276	1
21	Screw Cover	24252016	24252016	24252016	1
22	Guide Louver	10512157	10512157	10512157	1
23	Wire Clamp	71010003	71010003	71010003	1
24	Rear Clamp	26112164	26112164	26112164	1
25	Motor MP24AA	1521210801	1521210801	1521210801	1
26	Motor Clamp	26112161	26112161	26112161	1
27	Motor	150120874	150120874	150120874	1
28	Electric Box Cover 1	20102848	20102848	20102848	1
29	Covering Plate2	20122075	20122075	20122075	1
30	Terminal Board	42010266	42010266	42010266	1
31	Electric Box	20112064	20112064	20112064	1
32	Main PCB	30035565	30035566	30035565	1
33	Jumping Connector	4202300130	4202300130	4202300130	1
34	Transformer 41X26.5G	43110236	43110236	43110236	1
35	Drainage Pipe	0523001401	0523001401	0523001401	1
36	Power Cable	4002048712	4002048712	4002048712	1
37	Connecting Cable	400205401	400205401	400205401	1
	Connecting Cable	/	40020536	/	1

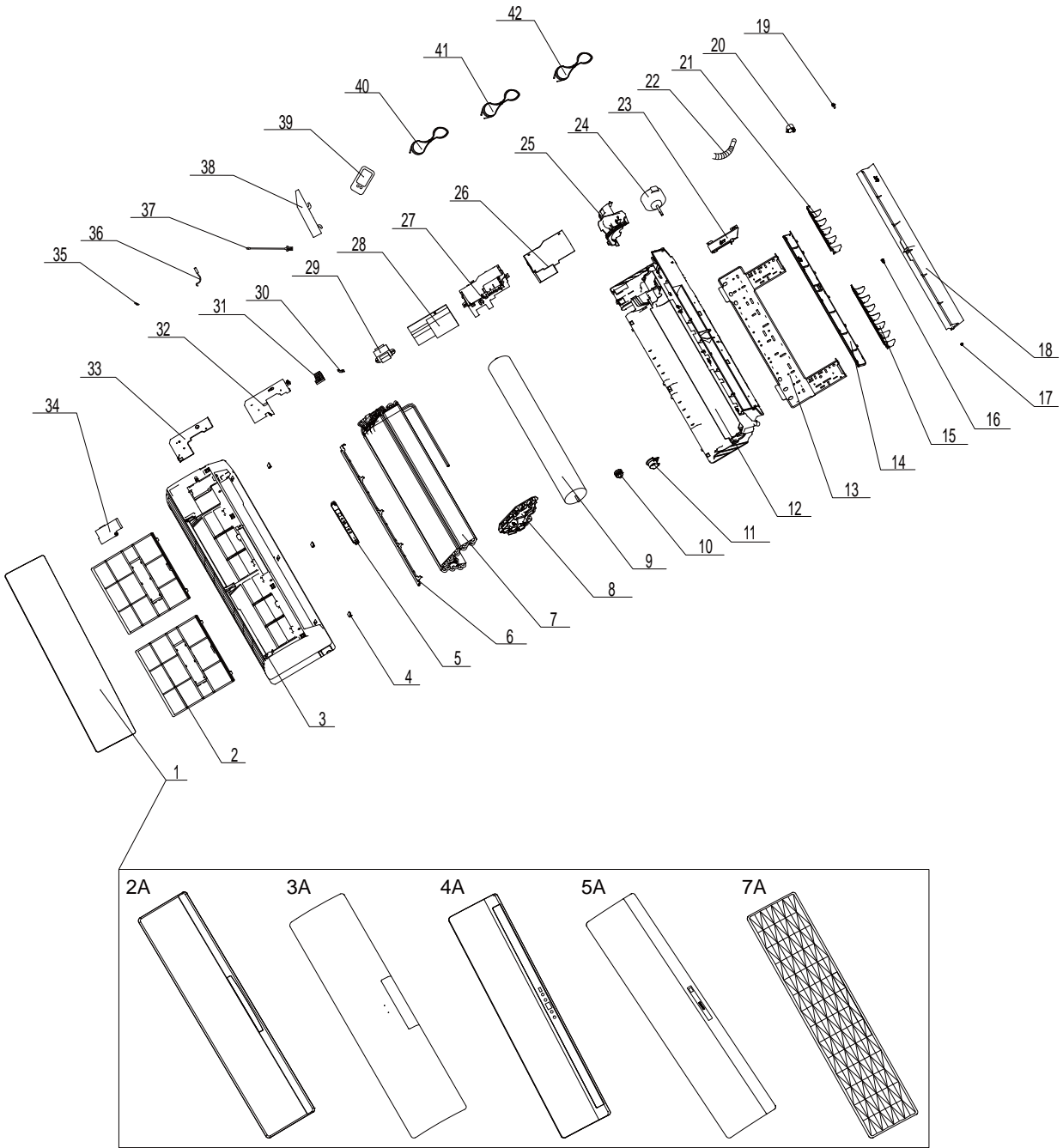
The above data are subject to be changed without notice.

## 8.9 Exploded View of Components and Parts of Indoor unit 9



No	Description	Part Code		Qty
		GWC18MC-K1NNA1A/I	GWH18MC-K1NNA1A/I	
1	Front Panel Case	20012281	20012281	1
2	Filter	1112208901	1112208901	2
3	Front Case	20012282	20012282	1
4	Screw Cover	24252016	24252016	3
5	Display Board	30565008	30565008	1
6	Evaporator Quickset	26112179	26112179	1
7	Evaporator Assy	01002741	01002741	1
8	Evaporator Support	24212100	24212100	1
9	Cross Flow Fan	10352019	10352019	1
10	O-Gasket of Cross Fan Bearing	76512203	76512203	1
11	Bearing cushion rubber base	26152022	26152022	1
12	Rear Case	22202109	22202109	1
13	Wall-Mounting Frame	01252218	01252218	1
14	Helicoid tongue	26112177	26112177	1
15	Air Louver	10512116	10512116	1
16	Axle Bush	10542008	10542008	1
17	Left Axle Bush	10512037	10512037	1
18	Guide Louver	10512115	10512115	1
19	Crankshaft	10582070	10582070	1
20	Stepping Motor	15012086	15012086	1
21	Air Louver	10512117	10512117	1
22	Drainage Pipe	05230014	05230014	1
23	Pipe Clamp	26112164	26112164	1
24	Motor	15012113	15012113	1
25	Motor Clamp	26112178	26112178	1
26	Lower Shield of Electric Box	01592070	01592070	1
27	Electric Box	20112078	20112078	1
28	Main PCB	30135229	30135230	1
29	Transformer	43110237	43110237	1
30	Wire Clamp	26112181	26112181	1
31	Terminal Board	42011240	4201026201	1
32	Electric Box Cover 1	20122099	20122099	1
33	Upper Shield of Electric Box	01592070	01592070	1
34	Electric Box Cover 2	20112081	20112081	1
35	Sensor Insert	42020063	42020063	1
36	Tube Sensor	390000595	390000595	1
37	Room Sensor	390000451	390000451	1
38	Water-blocking Sheet	76912106	76912106	1
39	Remote Controller	30510041	30510041	1
40	Connecting Cable	400205401	400205401	1
41	Connecting Cable	/	4002053603	1
42	Power Cord	400203253	400203253	1

# 8. 10 Exploded View of Components and Parts of Indoor unit 10





No	Description	Part Code		Qty
		GWC18MC-K1NNA2AI	GWH18MC-K1NNA2AI	
1	Front Panel Case	20012283	20012283	1
2	Filter	1112208901	1112208901	2
3	Front Case	20012250	20012250	1
4	Screw Cover	24252016	24252016	3
5	Display Board	30565039	30565039	1
6	EvaporatorQuickset	26112179	26112179	1
7	Evaporator Assy	01002741	01002741	1
8	Evaporator Support	24212100	24212100	1
9	Cross Flow Fan	10352019	10352019	1
10	O-Gasket of Cross Fan Bearing	76512203	76512203	1
11	Bearing cushion rubber base	26152022	26152022	1
12	Rear Case	22202109	22202109	1
13	Wall-Mounting Frame	01252218	01252218	1
14	Helicoid tongue	26112177	26112177	1
15	Air Louver	10512116	10512116	1
16	Axle Bush	10542008	10542008	1
17	Left Axle Bush	10512037	10512037	1
18	Guide Louver	10512115	10512115	1
19	Crankshaft	10582070	10582070	1
20	Stepping Motor	15012086	15012086	1
21	Air Louver	10512117	10512117	1
22	Drainage Pipe	05230014	05230014	1
23	Pipe Clamp	26112164	26112164	1
24	Motor	15012113	15012113	1
25	Motor Clamp	26112178	26112178	1
26	Lower Shield of Electric Box	01592070	01592070	1
27	Electric Box	20112078	20112078	1
28	Main PCB	30135227	30135228	1
29	Transformer	43110237	43110237	1
30	Wire Clamp	26112181	26112181	1
31	Terminal Board	42011240	4201026201	1
32	Electric Box Cover 1	20122099	20122099	1
33	Upper Shield of Electric Box	01592070	01592070	1
34	Electric Box Cover 2	20112081	20112081	1
35	Sensor Insert	42020063	42020063	1
36	Tube Sensor	390000595	390000595	1
37	Room Sensor	390000451	390000451	1
38	Water-blocking Sheet	76912106	76912106	1
39	Remote Controller	30510041	30510041	1
40	Connecting Cable	400205401	400205401	1
41	Connecting Cable	/	4002053603	1
42	Power Cord	400203253	400203253	1

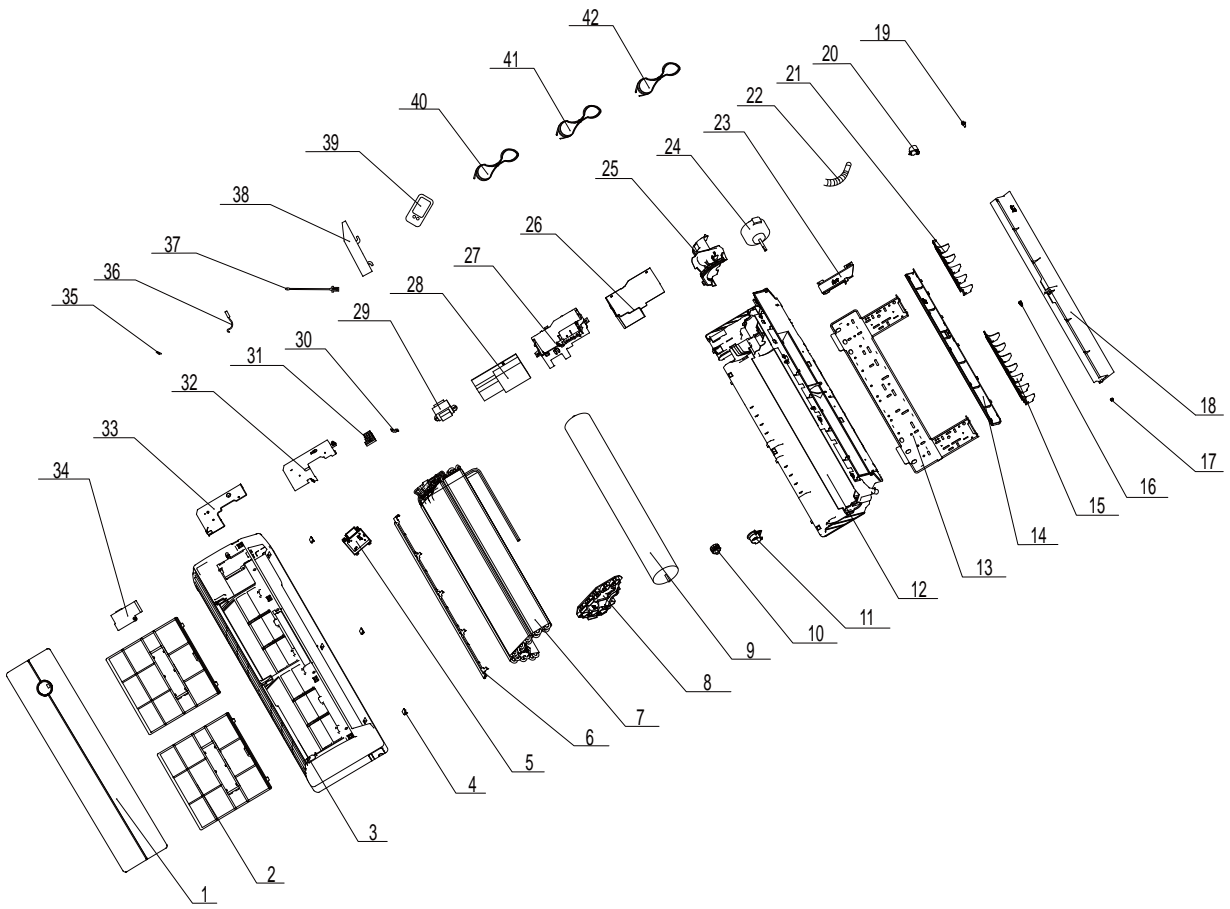
No	Description	Part Code		Qty
		GWC18MC-K1NNA3A/I	GWH18MC-K1NNA3A/I	
1	Front Panel Case	20012260	20012260	1
2	Filter	1112208901	1112208901	2
3	Front Case	20012250	20012250	1
4	Screw Cover	24252016	24252016	3
5	Display Board	30565038	30565038	1
6	EvaporatorQuickset	26112179	26112179	1
7	Evaporator Assy	01002741	01002741	1
8	Evaporator Support	24212100	24212100	1
9	Cross Flow Fan	10352019	10352019	1
10	O-Gasket of Cross Fan Bearing	76512203	76512203	1
11	Bearing cushion rubber base	26152022	26152022	1
12	Rear Case	22202109	22202109	1
13	Wall-Mounting Frame	01252218	01252218	1
14	Helicoid tongue	26112177	26112177	1
15	Air Louver	10512116	10512116	1
16	Axile Bush	10542008	10542008	1
17	Left Axile Bush	10512037	10512037	1
18	Guide Louver	10512115	10512115	1
19	Crankshaft	10582070	10582070	1
20	Stepping Motor	15012086	15012086	1
21	Air Louver	10512117	10512117	1
22	Drainage Pipe	05230014	05230014	1
23	Pipe Clamp	26112164	26112164	1
24	Motor	15012113	15012113	1
25	Motor Clamp	26112178	26112178	1
26	Lower Shield of Electric Box	01592070	01592070	1
27	Electric Box	20112078	20112078	1
28	Main PCB	30135227	30135228	1
29	Transformer	43110237	43110237	1
30	Wire Clamp	26112181	26112181	1
31	Terminal Board	42011240	4201026201	1
32	Electric Box Cover 1	20122099	20122099	1
33	Upper Shield of Electric Box	01592070	01592070	1
34	Electric Box Cover 2	20112081	20112081	1
35	Sensor Insert	42020063	42020063	1
36	Tube Sensor	390000595	390000595	1
37	Room Sensor	390000451	390000451	1
38	Water-blocking Sheet	76912106	76912106	1
39	Remote Controller	30510041	30510041	1
40	Connecting Cable	400205401	400205401	1
41	Connecting Cable	/	4002053603	1
42	Power Cord	400203253	400203253	1

No	Description	Part Code		Qty
		GWC18MC-K1NNA4A/I	GWH18MC-K1NNA4A/I	
1	Front Panel Case	20012280	20012280	1
2	Filter	1112208901	1112208901	2
3	Front Case	20012250	20012250	1
4	Screw Cover	24252016	24252016	3
5	Display Board	30565039	30565039	1
6	EvaporatorQuickset	26112179	26112179	1
7	Evaporator Assy	01002741	01002741	1
8	Evaporator Support	24212100	24212100	1
9	Cross Flow Fan	10352019	10352019	1
10	O-Gasket of Cross Fan Bearing	76512203	76512203	1
11	Bearing cushion rubber base	26152022	26152022	1
12	Rear Case	22202109	22202109	1
13	Wall-Mounting Frame	01252218	01252218	1
14	Helicoid tongue	26112177	26112177	1
15	Air Louver	10512116	10512116	1
16	Axle Bush	10542008	10542008	1
17	Left Axle Bush	10512037	10512037	1
18	Guide Louver	10512115	10512115	1
19	Crankshaft	10582070	10582070	1
20	Stepping Motor	15012086	15012086	1
21	Air Louver	10512117	10512117	1
22	Drainage Pipe	05230014	05230014	1
23	Pipe Clamp	26112164	26112164	1
24	Motor	15012113	15012113	1
25	Motor Clamp	26112178	26112178	1
26	Lower Shield of Electric Box	01592070	01592070	1
27	Electric Box	20112078	20112078	1
28	Main PCB	30135227	30135228	1
29	Transformer	43110237	43110237	1
30	Wire Clamp	26112181	26112181	1
31	Terminal Board	42011240	4201026201	1
32	Electric Box Cover 1	20122099	20122099	1
33	Upper Shield of Electric Box	01592070	01592070	1
34	Electric Box Cover 2	20112081	20112081	1
35	Sensor Insert	42020063	42020063	1
36	Tube Sensor	390000595	390000595	1
37	Room Sensor	390000451	390000451	1
38	Water-blocking Sheet	76912106	76912106	1
39	Remote Controller	30510041	30510041	1
40	Connecting Cable	400205401	400205401	1
41	Connecting Cable	/	4002053603	1
42	Power Cord	400203253	400203253	1

No	Description	Part Code		Qty
		GWC18MC-K1NNA5A/I	GWH18MC-K1NNA5A/I	
1	Front Panel Case	20012286	20012286	1
2	Filter	1112208901	1112208901	2
3	Front Case	20012250	20012250	1
4	Screw Cover	24252016	24252016	3
5	Display Board	30565041	30565041	1
6	EvaporatorQuickset	26112179	26112179	1
7	Evaporator Assy	01002741	01002741	1
8	Evaporator Support	24212100	24212100	1
9	Cross Flow Fan	10352019	10352019	1
10	O-Gasket of Cross Fan Bearing	76512203	76512203	1
11	Bearing cushion rubber base	26152022	26152022	1
12	Rear Case	22202109	22202109	1
13	Wall-Mounting Frame	01252218	01252218	1
14	Helicoid tongue	26112177	26112177	1
15	Air Louver	10512116	10512116	1
16	Axile Bush	10542008	10542008	1
17	Left Axile Bush	10512037	10512037	1
18	Guide Louver	10512115	10512115	1
19	Crankshaft	10582070	10582070	1
20	Stepping Motor	15012086	15012086	1
21	Air Louver	10512117	10512117	1
22	Drainage Pipe	05230014	05230014	1
23	Pipe Clamp	26112164	26112164	1
24	Motor	15012113	15012113	1
25	Motor Clamp	26112178	26112178	1
26	Lower Shield of Electric Box	01592070	01592070	1
27	Electric Box	20112078	20112078	1
28	Main PCB	30135227	30135228	1
29	Transformer	43110237	43110237	1
30	Wire Clamp	26112181	26112181	1
31	Terminal Board	42011240	4201026201	1
32	Electric Box Cover 1	20122099	20122099	1
33	Upper Shield of Electric Box	01592070	01592070	1
34	Electric Box Cover 2	20112081	20112081	1
35	Sensor Insert	42020063	42020063	1
36	Tube Sensor	390000595	390000595	1
37	Room Sensor	390000451	390000451	1
38	Water-blocking Sheet	76912106	76912106	1
39	Remote Controller	30510041	30510041	1
40	Connecting Cable	400205401	400205401	1
41	Connecting Cable	/	4002053603	1
42	Power Cord	400203253	400203253	1

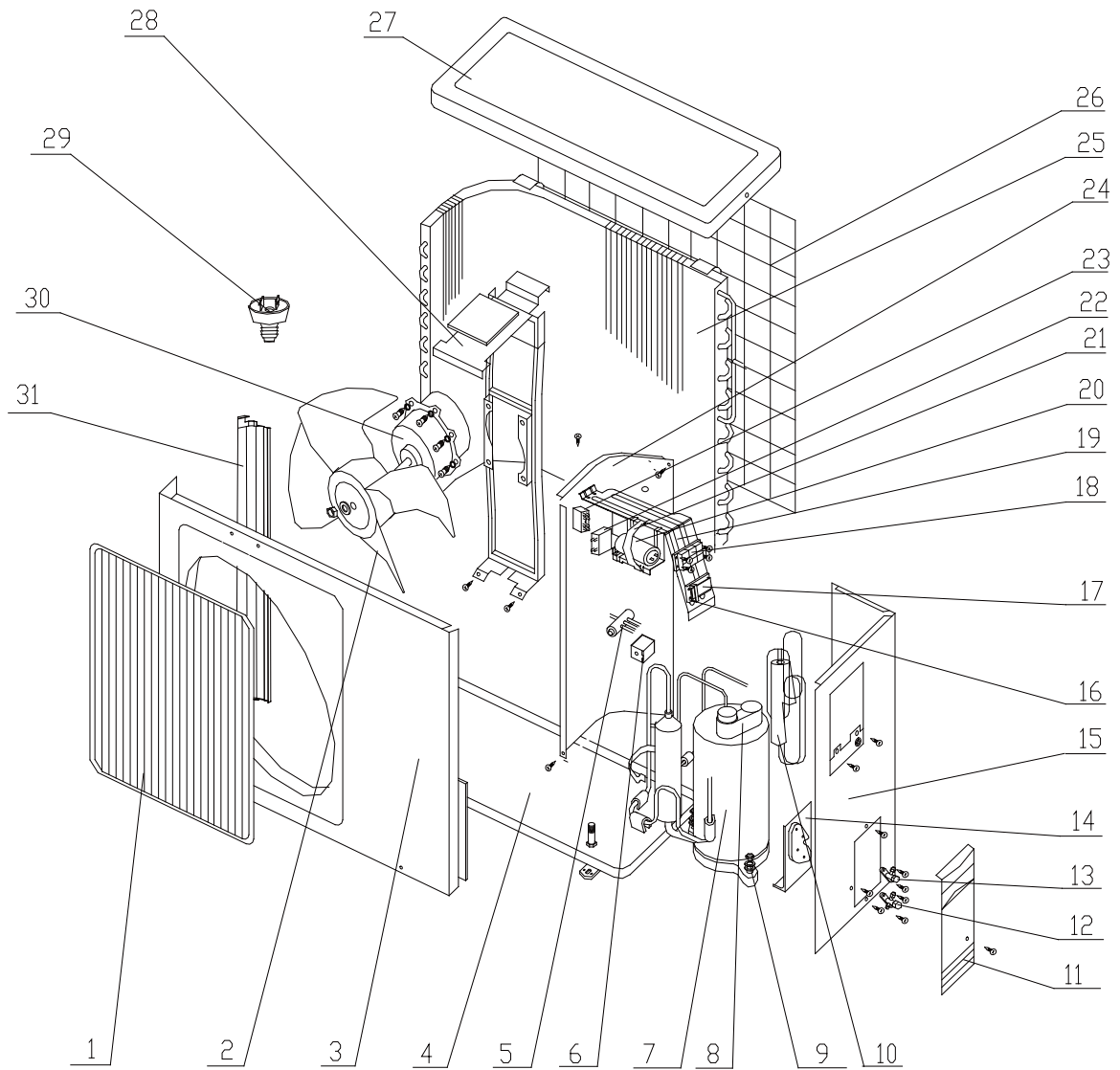
No	Description	Part Code		Qty
		GWC18MC-K1NNA7A/I	GWH18MC-K1NNA7A/I	
1	Front Panel Case	20012284	20012284	1
2	Filter	1112208901	1112208901	2
3	Front Case	20012250	20012250	1
4	Screw Cover	24252016	24252016	3
5	Display Board	30565042	30565042	1
6	EvaporatorQuickset	26112179	26112179	1
7	Evaporator Assy	01002741	01002741	1
8	Evaporator Support	24212100	24212100	1
9	Cross Flow Fan	10352019	10352019	1
10	O-Gasket of Cross Fan Bearing	76512203	76512203	1
11	Bearing cushion rubber base	26152022	26152022	1
12	Rear Case	22202109	22202109	1
13	Wall-Mounting Frame	01252218	01252218	1
14	Helicoid tongue	26112177	26112177	1
15	Air Louver	10512116	10512116	1
16	Axle Bush	10542008	10542008	1
17	Left Axle Bush	10512037	10512037	1
18	Guide Louver	10512115	10512115	1
19	Crankshaft	10582070	10582070	1
20	Stepping Motor	15012086	15012086	1
21	Air Louver	10512117	10512117	1
22	Drainage Pipe	05230014	05230014	1
23	Pipe Clamp	26112164	26112164	1
24	Motor	15012113	15012113	1
25	Motor Clamp	26112178	26112178	1
26	Lower Shield of Electric Box	01592070	01592070	1
27	Electric Box	20112078	20112078	1
28	Main PCB	30135227	30135228	1
29	Transformer	43110237	43110237	1
30	Wire Clamp	26112181	26112181	1
31	Terminal Board	42011240	4201026201	1
32	Electric Box Cover 1	20122099	20122099	1
33	Upper Shield of Electric Box	01592070	01592070	1
34	Electric Box Cover 2	20112081	20112081	1
35	Sensor Insert	42020063	42020063	1
36	Tube Sensor	390000595	390000595	1
37	Room Sensor	390000451	390000451	1
38	Water-blocking Sheet	76912106	76912106	1
39	Remote Controller	30510041	30510041	1
40	Connecting Cable	400205401	400205401	1
41	Connecting Cable	/	4002053603	1
42	Power Cord	400203253	400203253	1

8. 11 Exploded View of Components and Parts of Indoor unit 11



No	Description	Part Code		Qty
		GWC18MC-K1NNA8A/I	GWH18MC-K1NNA8A/I	
1	Front Panel Case	20012285	20012285	1
2	Filter	1112208901	1112208901	2
3	Front Case	20012282	20012282	1
4	Screw Cover	24252016	24252016	3
5	Display Board	30540015	30540015	1
6	EvaporatorQuickset	26112179	26112179	1
7	Evaporator Assy	01002741	01002741	1
8	Evaporator Support	24212100	24212100	1
9	Cross Flow Fan	10352019	10352019	1
10	O-Gasket of Cross Fan Bearing	76512203	76512203	1
11	Bearing cushion rubber base	26152022	26152022	1
12	Rear Case	22202109	22202109	1
13	Wall-Mounting Frame	01252218	01252218	1
14	Helicoid tongue	26112177	26112177	1
15	Air Louver	10512116	10512116	1
16	Axile Bush	10542008	10542008	1
17	Left Axile Bush	10512037	10512037	1
18	Guide Louver	10512115	10512115	1
19	Crankshaft	10582070	10582070	1
20	Stepping Motor	15012086	15012086	1
21	Air Louver	10512117	10512117	1
22	Drainage Pipe	05230014	05230014	1
23	Pipe Clamp	26112164	26112164	1
24	Motor	15012113	15012113	1
25	Motor Clamp	26112178	26112178	1
26	Lower Shield of Electric Box	01592070	01592070	1
27	Electric Box	20112078	20112078	1
28	Main PCB	30135227	30135228	1
29	Transformer	43110237	43110237	1
30	Wire Clamp	26112181	26112181	1
31	Terminal Board	42011240	4201026201	1
32	Electric Box Cover 1	20122099	20122099	1
33	Upper Shield of Electric Box	01592070	01592070	1
34	Electric Box Cover 2	20112081	20112081	1
35	Sensor Insert	42020063	42020063	1
36	Tube Sensor	390000595	390000595	1
37	Room Sensor	390000451	390000451	1
38	Water-blocking Sheet	76912106	76912106	1
39	Remote Controller	30510041	30510041	1
40	Connecting Cable	400205401	400205401	1
41	Connecting Cable	/	4002053603	1
42	Power Cord	400203253	400203253	1

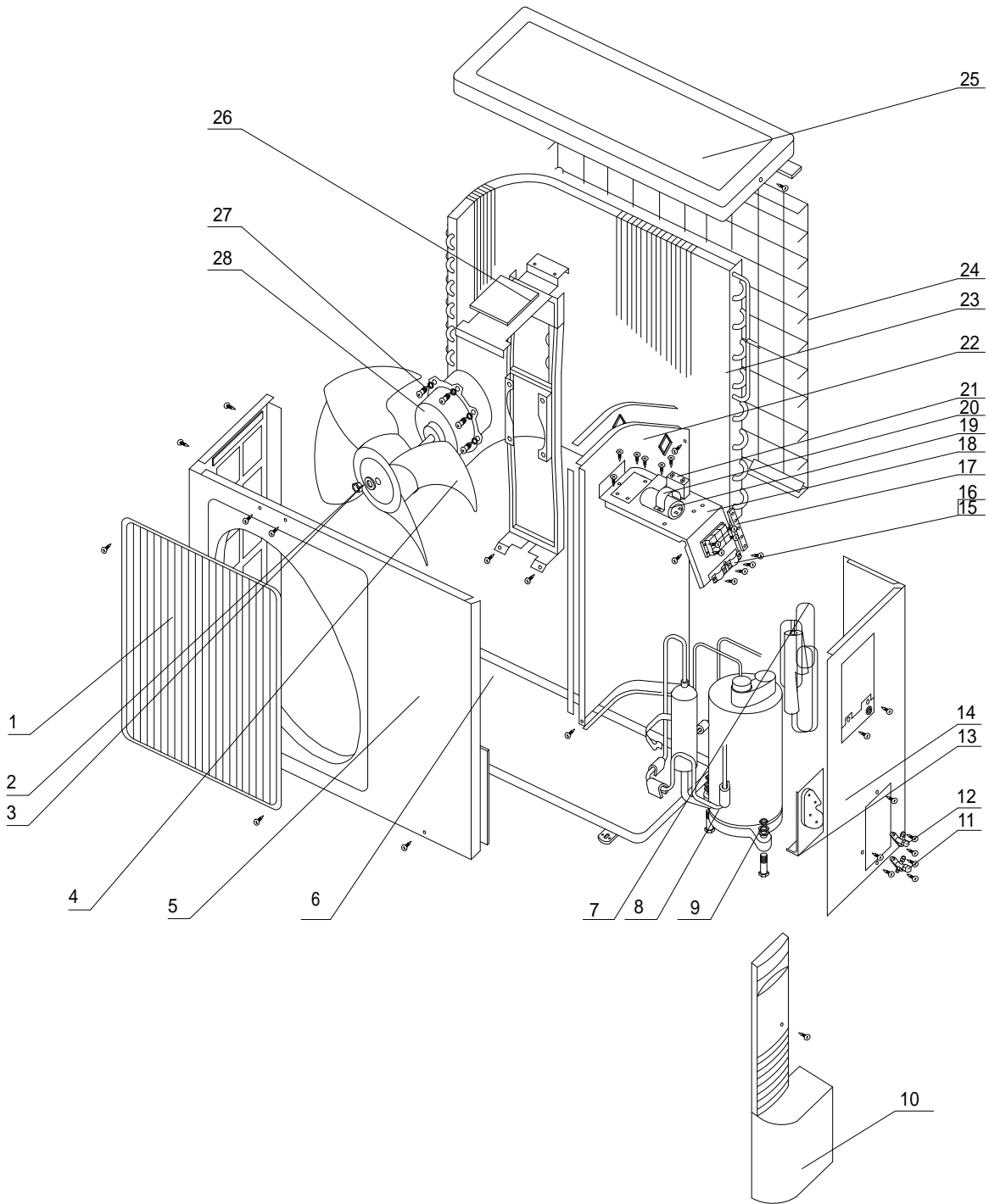
## 8. 12 Exploded View of Components and Parts of outdoor unit 1





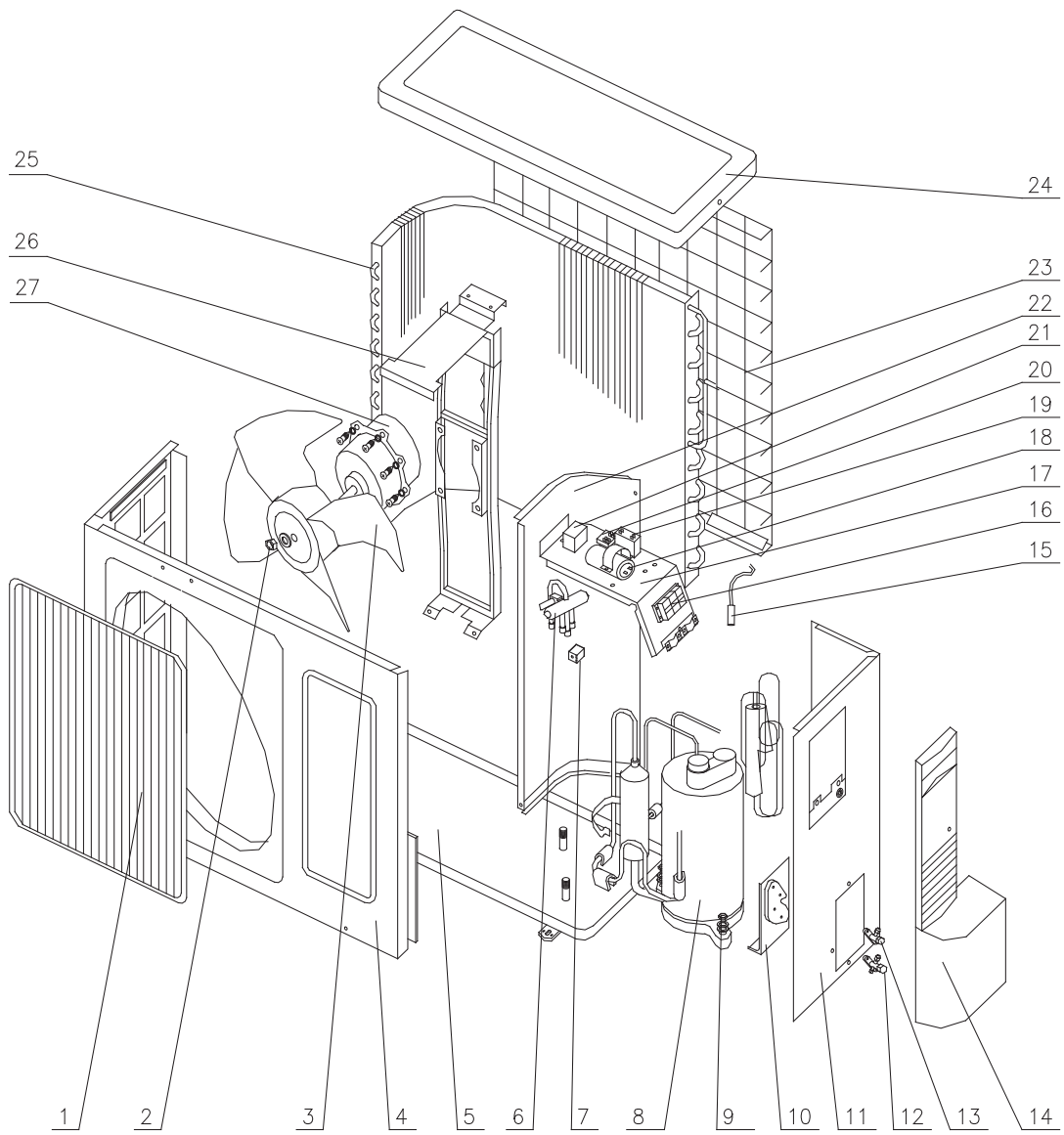
No	Description	Part Code	Qty
		GWC05MA-K1NNA9A/O	
1	Front Grill	01473004	1
2	Axial Flow Fan	10333005	1
3	Front Plate	01533024	1
4	Metal Base	01203093	1
5	4-way valve	/	/
6	4-way valve coil	/	/
7	Compressor	00103756	1
8	Overload Protector B180-155-141E	/	/
9	Compressor Gasket	/	/
11	Handle	26233101	1
12	Gas Valve 3/8	07100145	1
13	Liquid Valve 1/4	07100024	1
14	Valve Support	01713424	1
15	Right Side Plate	01303151	1
16	Wiring clamp plate	24253001	1
17	Wiring clamp cover	24253002	1
18	Terminal Board	42011154	1
19	Electric Plate	0140358408	1
20	Comp Capacitor	33010044	1
21	Capacitor Clamp	02143014	1
22	Fan Capacitor	33010020	1
24	Isolation Sheet Assy	01233101	1
25	Condenser Assy	01113267	1
26	Rear Grill	11123204	1
27	Top Cover	012532632	1
28	Motor Support	01703029	1
29	Drainage Connector	/	/
30	Fan Motor	15013156	1
31	Backstop	01793005	1

### 8. 13 Exploded View of Components and Parts of outdoor unit 2



No	Description	Part Code		Qty
		GWC07MA-K1NNA9A/O	GWC09MA-K1NNA9A/O	
1	Front Grill	22413431	22413431	1
4	Axial Flow Fan	10333004	10333004	1
5	Front Plate	15330124	15330124	1
6	Metal Base	0120364902P	0120375001P	1
8	Compressor	00103757	00103029	1
10	Handle	26233433	26233433	1
11	Valve 3/8"	07100145	07100145	1
12	Valve 1/4"	07100024	07100024	1
13	Valve Support	01713041	01713041	1
14	Right Side Plate Assy	01302004	01302004	1
15	Wire Clamp	71010003	71010003	1
16	Insulation Gasket	70410503	70410503	1
17	Terminal Board	42011154	42011154	1
18	Electric Plate	0140377409	0140377408	1
19	Capacitor	33010045	33000018	1
20	Capacitor clamp	02140001	02143401	1
21	Capacitor CBB61 2.5uF/450VAC	33010026	33010026	1
22	Isolation Sheet	012334172	012334172	1
23	Condenser Assy	01113268	01113269	1
24	Rear Grill	11123205	11123205	1
25	Top cover plate	01253443	01253443	1
26	Motor Support	01703053	01703050	1
28	Motor	150130671	150130671	1

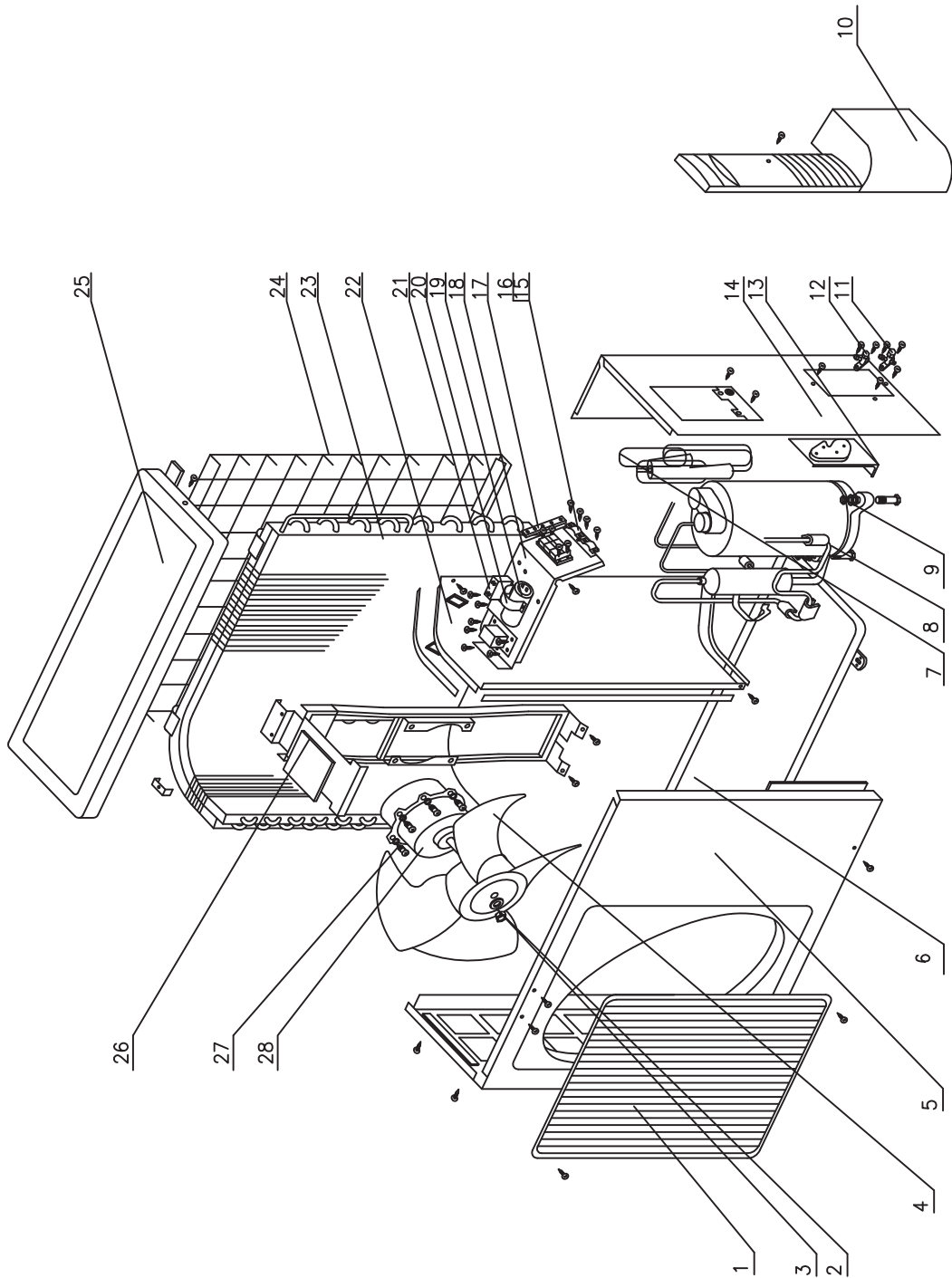
## 8. 14 Exploded View of Components and Parts of outdoor unit 3



No	Description	Part Code			Qty
		GWC09MA-K1NNA3A/O	GWH09MA-K1NNA3A/O	GWC09MA-K1NNA1B/O	
1	Front Grill	22263002	22263002	22413431	1
2	Nut M6	70310132	70310132	70310131	1
3	Axial Flow Fan	10333005	10333005	10333004	1
4	Front Plate	01533014	01533014	01533012	1
5	Metal Base	01203548	0120317701	012031636	1
6	4-way Valve	—	43000402	—	1
7	4-way Valve Coil	—	43000400	—	1
8	Compressor	00103086	00103086	00100275	1
	Overload Protector	Internal	Internal	00180078	
	Compressor Gasket	—	—	76710216	3
9	Nut with Washer	70310011	70310011	70310014	3
10	Valve Support	01713424	01713424	01713041	1
11	Right Side Plate	0130315101	0130315101	01302004	1
12	Valve 3/8"	07100145	07100145	07100145	1
13	Valve 1/4"	07100024	07100024	07100024	1
14	Handle	26233101	26233101	26233433	1
15	—	—	—	—	—
16	Terminal Board	42011154	42010265	42011154	1
17	Electric Plate Assy	01403934	01403012	01403117	1
18	Capacitor	33010743	33010743	33000018	1
19	Capacitor	33010020	33010020	33010026	1
20	Terminal Board	—	42011147	—	1
21	—	—	—	—	—
22	Isolation Sheet	01233101	01233101	012334172	1
23	Rear Grill	11123204	11123204	11123205	1
24	Top cover plate	01253027	01253027	01253443	1
25	Condenser Assy	01113205	01113121	01103976	1
26	Motor Support	01703019	01703054	0170309701Y	1
27	Motor	15013156	15013156	150130671	1

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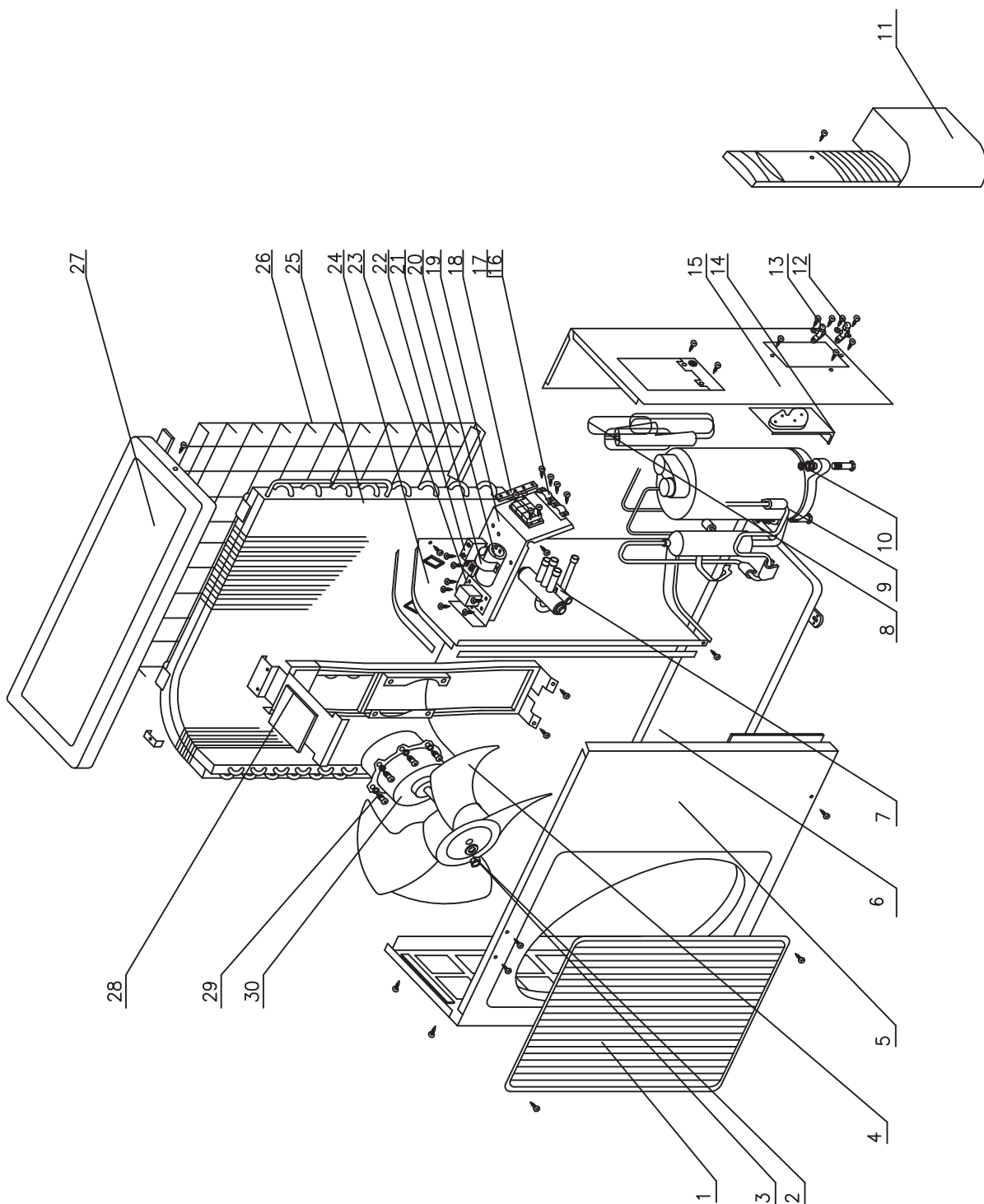
8. 15 Exploded View of Components and Parts of outdoor unit 4



No	Description	Part Code	Qty
		GWC12MB-K1NNA3A/O	
1	Front Grill	22413431	1
2	Nut M6	70310131	1
3	Washer 6	70410252	1
4	Axial Flow Fan	10333004	1
5	Front Plate	01533012	1
6	Metal Base	012032451	1
7	Capillary Assy	0310364302	1
8	Compressor ASL145SV-C7LU	00103100	1
9	Nut with Washer M6	70310011	3
10	Handle	26233433	1
11	Valve 1/4"	07100024	1
12	Valve 1/2"	07100147	1
13	Valve Support	01713043	1
14	Right Side Plate Assy	0130200401	1
15	Wire Clamp	71010103	2
16	Insulation Gasket	70410525	1
17	Terminal Board	42011154	1
18	Electric Plate	0141342502	1
19	Capacitor 35μF/450V	33010743	1
20	Capacitor clamp	02143401	1
21	Capacitor CBB61 2uF/450V (VDE)	33010025	1
22	Isolation Sheet	01233417	1
23	Condenser Assy	01133102	1
24	Rear Grill	11123205	1
25	Top cover plate	01253443	1
26	Motor Support	01703051	1
27	Screw	70140259	4
28	Motor FW30K	15013067	1

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8. 16 Exploded View of Components and Parts of outdoor unit 5

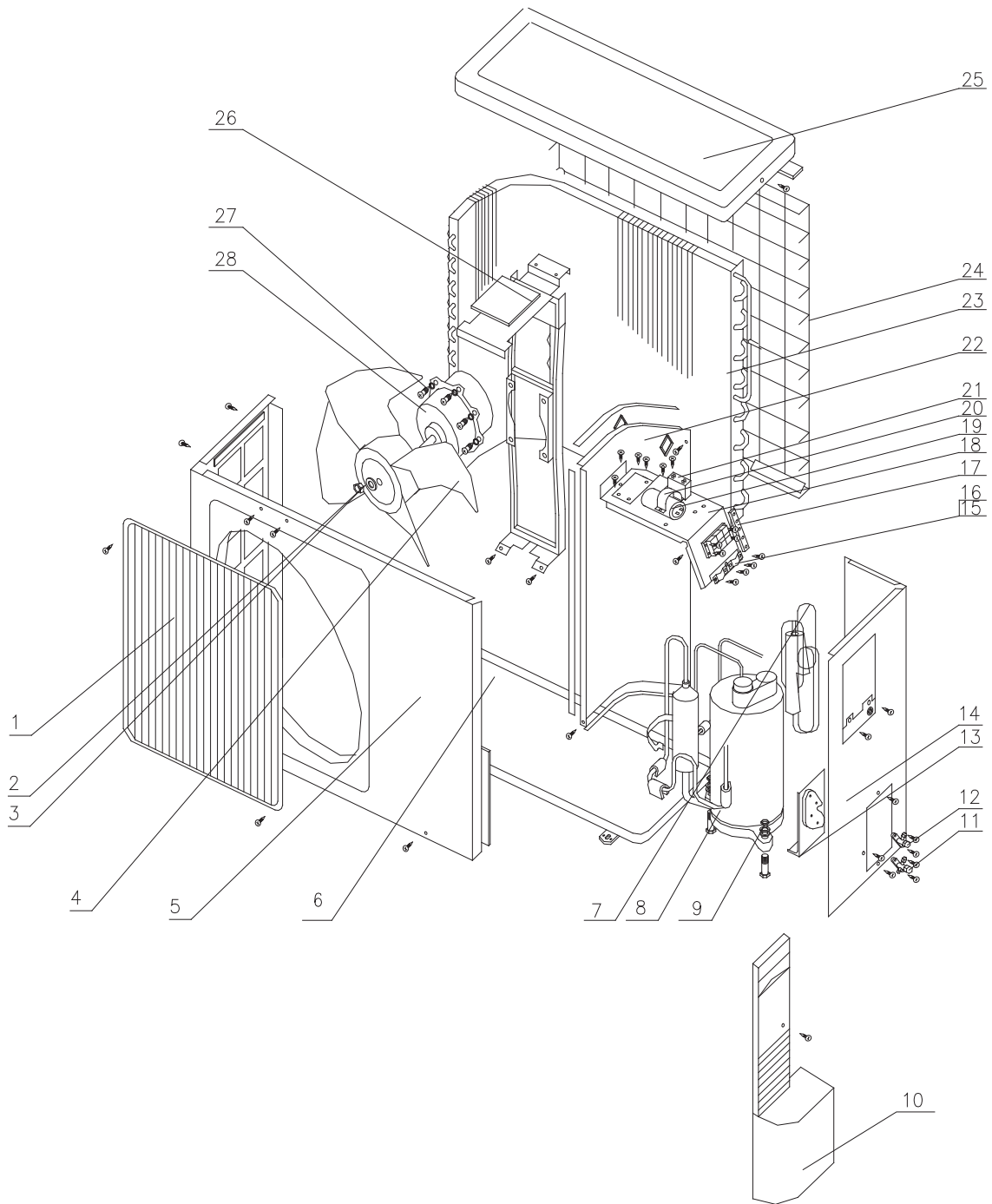




No	Description	Part Code	Qty
		GWH12MB-K1NNA3A/O	
1	Front Grill	22413431	1
2	Nut M6	70310131	1
3	Washer 6	70410252	1
4	Axial Flow Fan	10333004	1
5	Front Plate	01533012	1
6	Metal Base	012032457	1
7	4-way Valve	43000402	1
8	Capillary Assy	0310352006	1
9	Compressor ASL145SV-C7LU	00103100	1
10	Nut with Washer M6	70310011	3
11	Handle	26233433	1
12	Valve 1/4"	07100024	1
13	Valve 1/2"	07100147	1
14	Valve Support	01713043	1
15	Right Side Plate Assy	0130200401	1
16	Wire Clamp	71010003	2
17	Insulation Gasket C	70410523	1
18	Terminal Board	42010265	1
19	Electric Plate	0141342502	1
20	Capacitor 35μF/450V	33010743	1
21	Capacitor clamp	02143401	1
22	Capacitor CBB61 2uF/450V (VDE)	33010025	1
23	Terminal Board 1	42011147	1
24	Isolation Sheet	01233417	1
25	Condenser Assy	01133472	1
26	Rear Grill	11123205	1
27	Top cover plate	01253443	1
28	Motor Support	01703097	1
29	Screw	70140259	4
30	Motor FW30K	15013067	1

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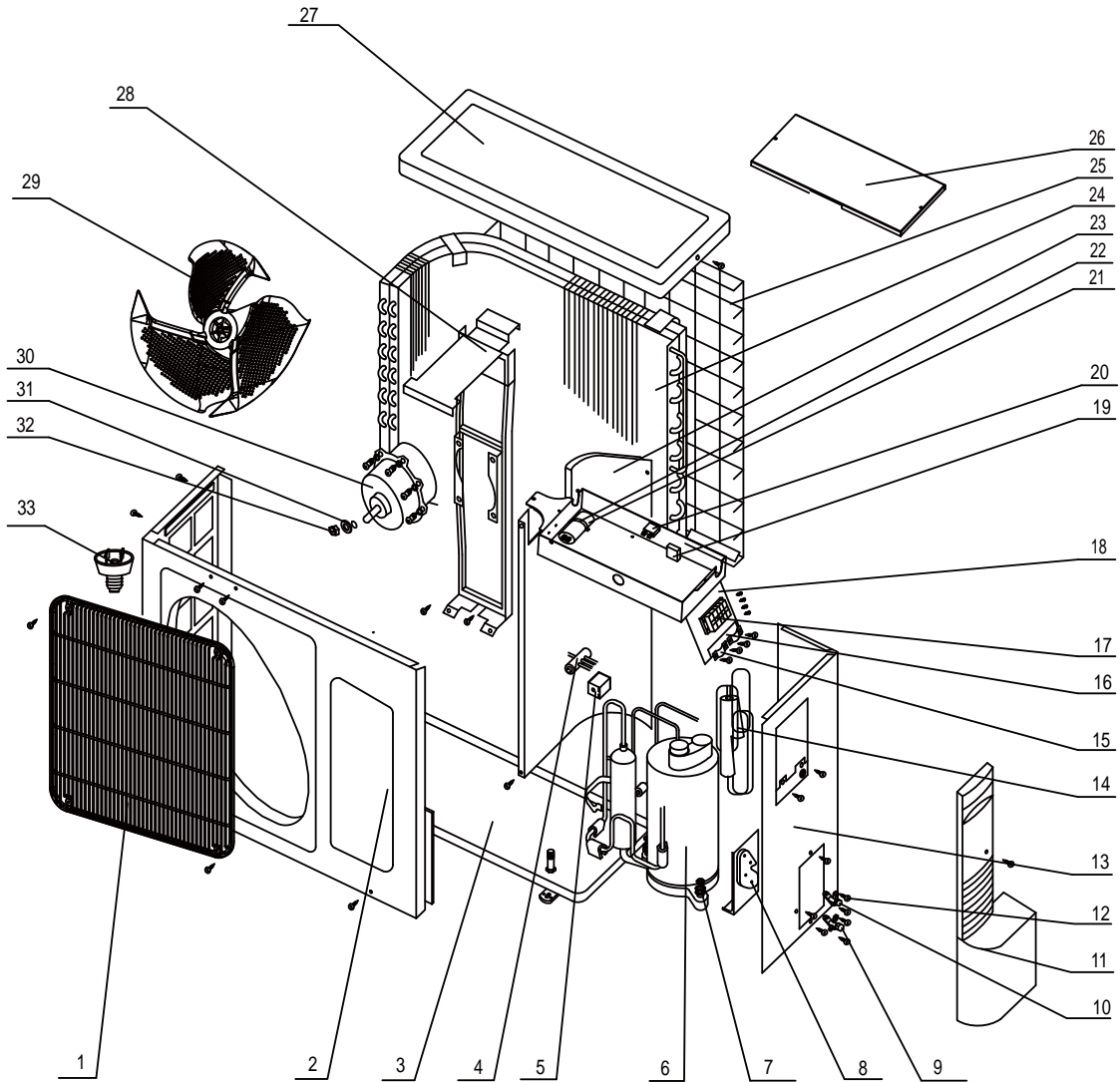
## 8. 17 Exploded View of Components and Parts of outdoor unit 6



No	Description	Part Code		Qty
		GWC12MB-K1NNA1B/O	GWC18MB-K1NNA3A/O	
1	Grille	22413431	22413431	1
2	Nut with Washer M6	70310131	70310131	1
3	Washer 6	70410224	70410252	1
4	Axial-flow Fan	10333004	10333004	1
5	Front Panel	01533012	01533012	1
6	Underpan Assy	012032431	012050361	1
7	Capillary Assy	0300391701	012050361	1
8	Compressor	00103039	00105017	1
9	Nut with Washer M6	70310011	70310013	3
10	Big Handle	26233433	26233433	1
11	Cut-off Valve 1/2"	07100147	07100024	1
12	Cut-off Valve 1/4"	07100024	07100147	1
13	Valve Support	01713041	01713043	1
14	Right Side Plate Sub-Assy	0130200401	0130200401	1
15	Fixed Clamp	71010103	71010103	1
16	Isolation Washer	70410503	70410525	1
17	Terminal Board	42011154	42011154	1
18	Electric Box	01413425	0141342502	1
19	Capacitor CBB65 30uF 450V	33000018	33000038	1
20	Capacitor Clamp	02143401	02143401	1
21	Capacitor CBB61 2.5uF/450V	33010026	33010025	1
22	Clapboard Sub-Assy	01233417	01233417	1
23	Condenser Sub-Assy	01133063	01133091	1
24	Rear Grill	11123205	11123205	1
25	Top Cover Sub-Assy	01253261	01253443	1
26	Motor Support Sub-Assy	017030521	01703051	1
27	Screw ST4.8X13 TA	70140259	70140259	4
28	Fan Motor	150130676	15013067	1

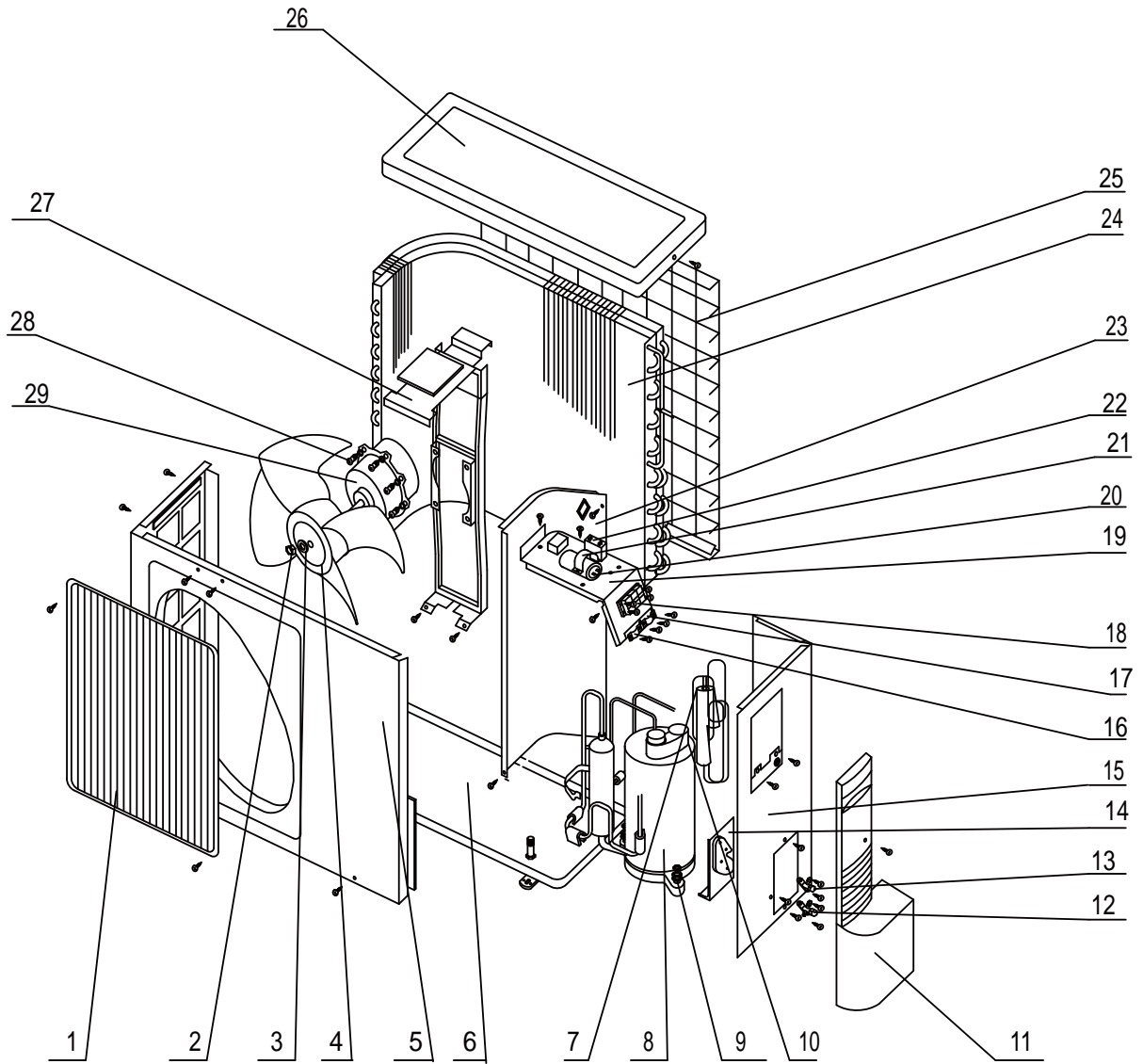
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8. 18 Exploded View of Components and Parts of outdoor unit 7



No	Description	Part Code	Qty
		GWH18MB-K1NNA3A/O	
1	Front Grill	22413431	1
2	Front Plate	01533012	1
3	Metal Base	012050361	1
4	4-way Valve	43000403	1
5	4-way Valve Accessary	43000400	1
6	Compressor QX-34F050gA	00105017	1
7	Nut with Washer M6	70310013	3
8	Valve Support	01713043	1
9	Valve 1/2"	07100147	1
10	Valve 1/4"	07100120	1
11	Handle	26233433	1
12	Screw	70140165	4
13	Right Side Plate Assy	0130200401	1
14	Capillary Assy	03103809	1
15	Wire Clamp	71010103	2
16	Insulation Gasket	70410523	1
17	Terminal Board	42010265	1
18	Electric Plate	01409070	1
19	Capacitor CBB61 2.5uF/450V (VDE)	33010026	1
20	Terminal Board	42011147	1
21	Capacitor 55µF/450V	33000038	1
22	Capacitor clamp	02141375	1
23	Isolation Sheet	01239052	1
24	Condenser Assy	011350051	1
25	Rear Grill	11123205	1
26	Electric Box Cover	01413048	1
27	Top cover plate	01253443	1
28	Motor Support	01703051	1
29	Axial Flow Fan	10333004	1
30	Motor FW35X	150130676	1
31	Washer 6	70410252	1
32	Nut M6	70310131	1
33	Drainage Connector	06123401	1

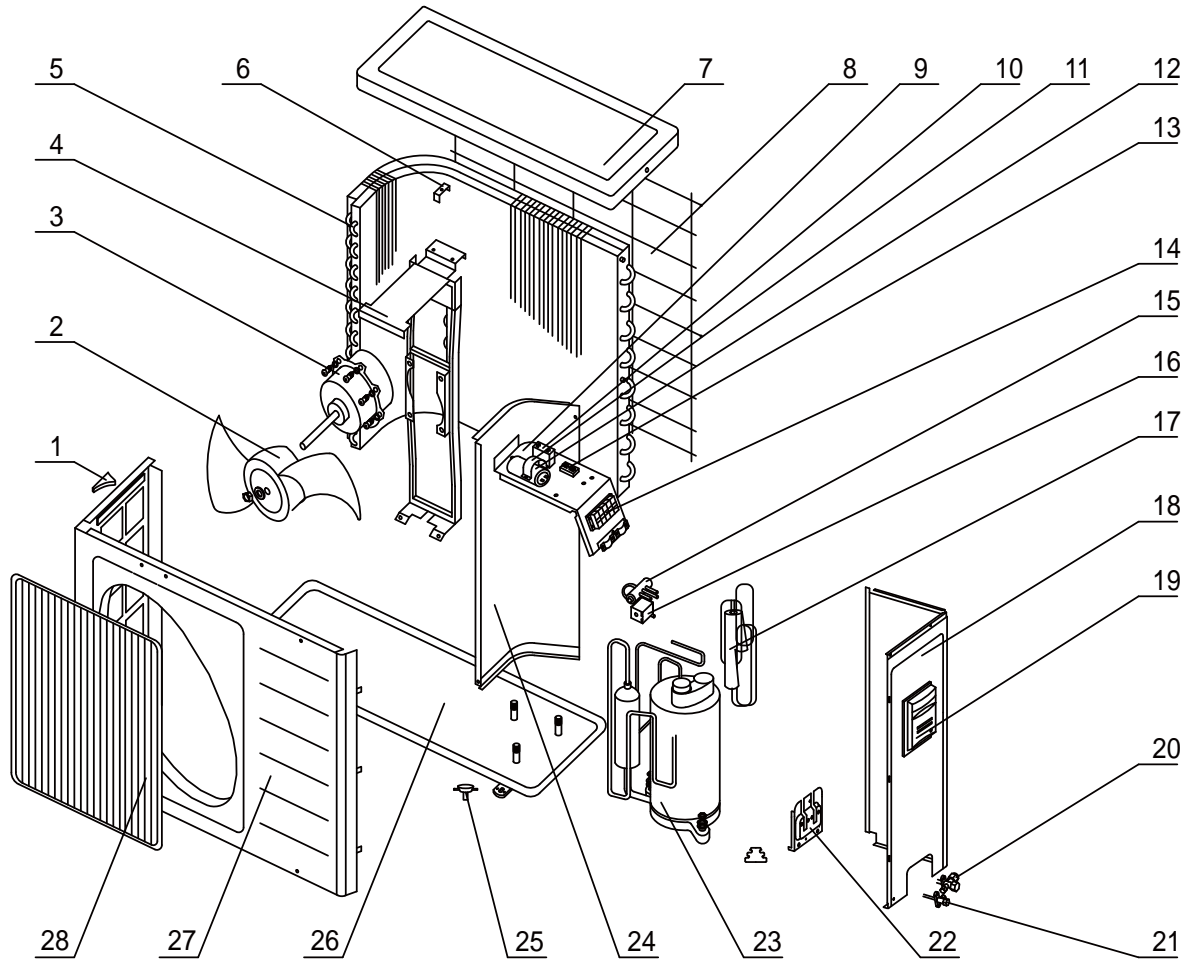
**8. 19** Exploded View of Components and Parts of outdoor unit 8



No	Description	Part Code		Qty
		GWC18MC-K1NNA3A/O	GWC18MC-K1NNA1A/O GWC18MC-K1NNA2A/O GWC18MC-K1NNA4A/O	
1	Front Grill	22413431	22413431	1
2	Nut M6	70310131	70310131	1
3	Washer	70410252	70410224	1
4	Axial Flow Fan	10333004	10333004	1
5	Front Plate	015350013	015350013	1
6	Metal Base	012050361	012050361	1
7	Capillary Assy	0300395001	0300395001	1
8	Compressor	00105017	00105017	1
9	Compressor Gasket	76710270	76710270	3
10	Overload Protector	built in	built in	1
11	Handle	26233433	26233433	1
12	Valve 1/2"	07100147	07100147	1
13	Valve 1/4"	07100024	07100024	1
14	Valve Support	01713041	01713041	1
15	Right Side Plate Assy	0130200401	0130200401	1
16	Wire Clamp	71010102	71010102	1
17	Insulation Gasket	70413002	70413002	1
18	Terminal Board T386A	42011241	42011241	1
19	Electric Plate	01403117	01403117	1
20	Comp Capacitor	33000038	33000038	1
21	Capacitor clamp	02141375	02141375	1
22	Fan Capacitor 2.5uF/450V	33010026	33010026	1
23	Isolation Sheet Assy	01235003	01235003	1
24	Condenser Assy	0111312301	0111312301	1
25	Rear grill Assy	01473014	01473014	1
26	Top cover Assy	01253443	01253443	1
27	Motor Support	017030531	017030531	1
28	Self-tapping Screw	70140259	70140259	4
29	Motor	15013071	15013071	1

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8. 20 Exploded View of Components and Parts of outdoor unit 9



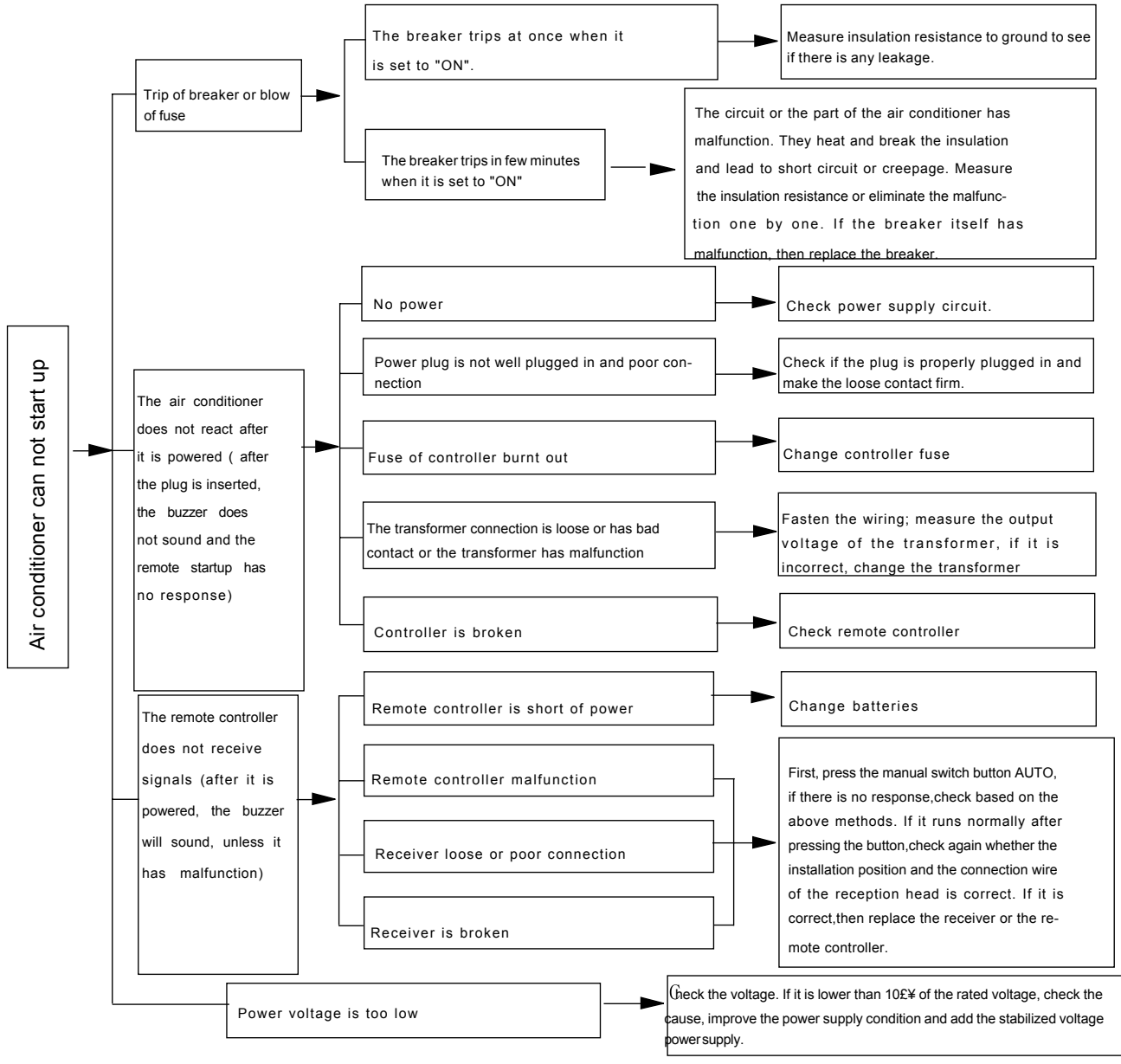


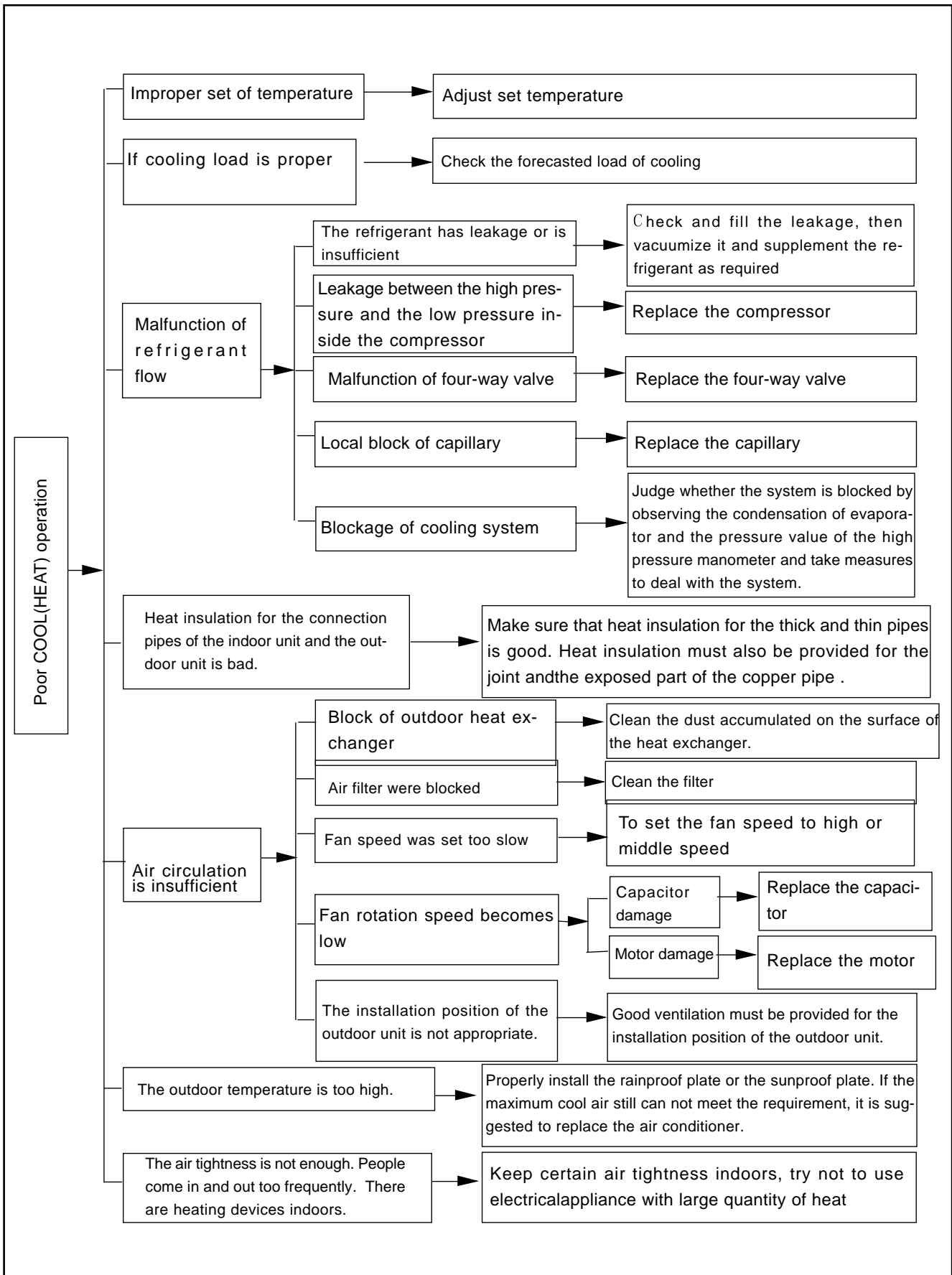
No	Description	Part Code		Qty
		GWH18MC-K1NNA3A/O	GWH18MC-K1NNA1A/O GWH18MC-K1NNA2A/O GWH18MC-K1NNA4A/O	
1	Handle	26235401	26235401	1
2	Axial Flow Fan	10333426	10333426	1
3	Motor LW48B	15013070	15013070	1
4	Motor Support	01705003	01705003	1
5	Condenser Assy	01113242	01113242	1
6	Condenser Clamp	01173078	01173078	1
7	Top Cover	01255001	01255001	1
8	Rear grill	014730371	014730371	1
9	Electrical Box	01405039	01405039	1
10	Capacitor CBB61 3.5uF/450V	33010010	33010010	1
11	Capacitor Clamp	02141375	02141375	1
12	Capacitor CBB65 55uF/450V	33000038	33000038	
13	Terminal Board	42011147	42011147	1
14	Terminal Board	42010265	42010265	1
15	4-way Valve Assy	43000403	43000403	1
16	4-way valve coil	430004002	430004002	1
17	Capillary Assy	03103788	03103788	1
18	Rear Side Plate	01305013	01305013	1
19	Handle	26235254	26235254	1
20	Valve Assy 1/2	07100105	07100105	1
21	Valve Assy 1/4	071302111	071302111	1
22	Valve support	01715007	01715006	1
23	Compressor	00105017	00105017	1
	Overload Protector	built in	built in	
	Compressor Gasket	76710270	76710270	3
24	Mid Clapboard	01233035	01233035	1
25	Drainage Connector	06123401	06123401	1
26	Chassis	0120374101P	0120374101P	1
27	Front Side Plate	01305015	01305015	1
28	Front Grill	22415001	22415001	1

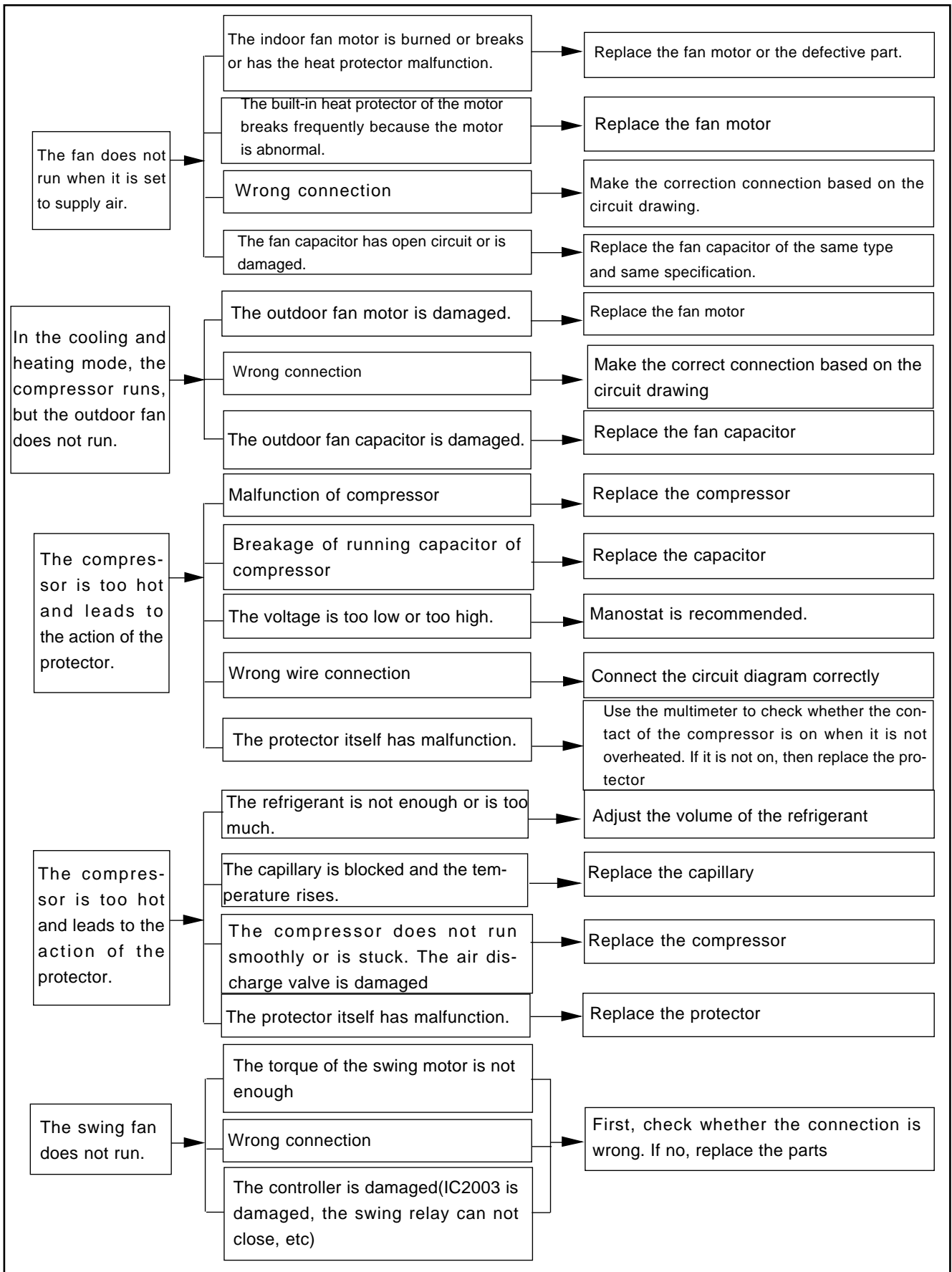
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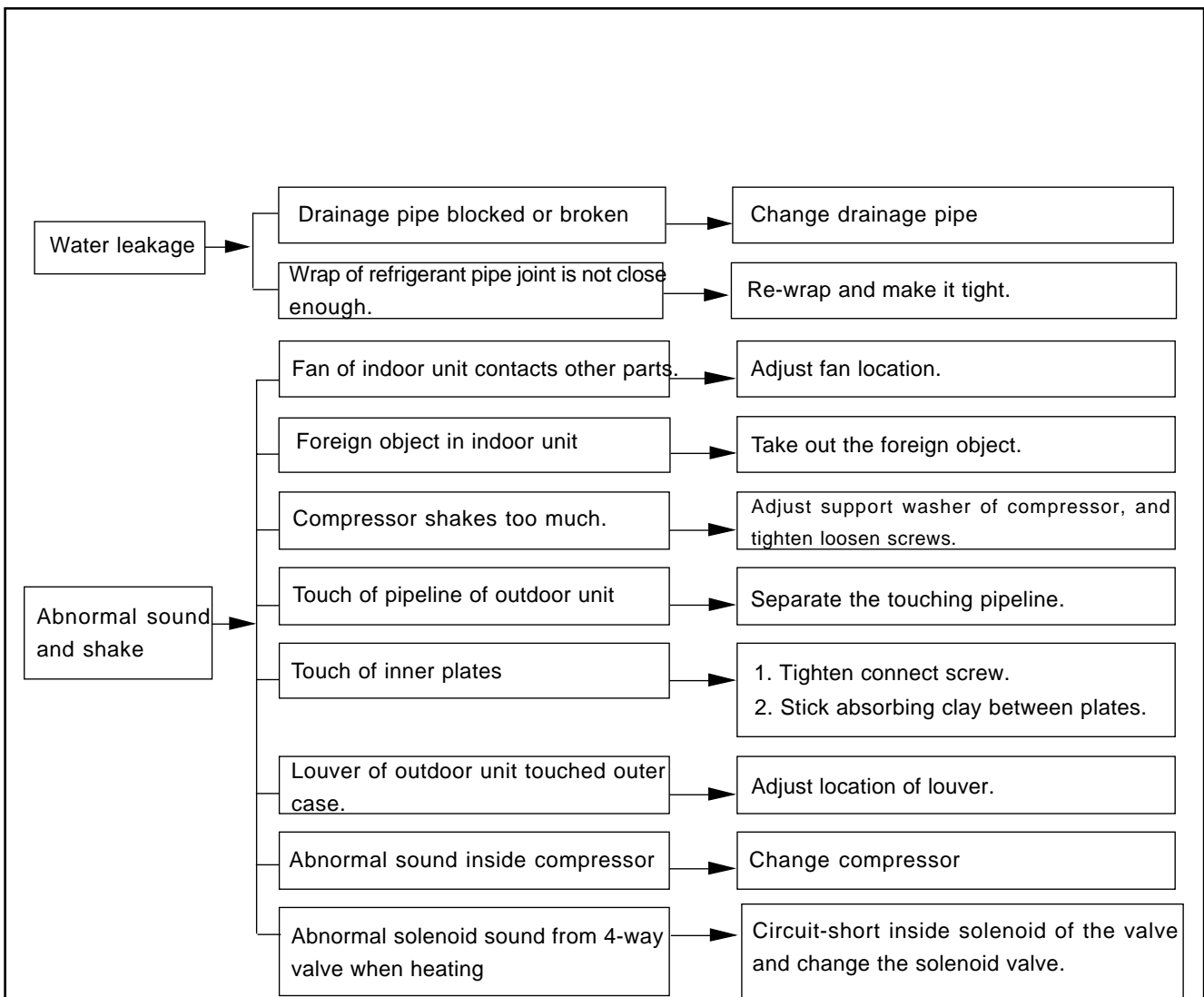
# 9 Failure and analysis

Note: When replacing the controller, make sure insert the wire jumper into the new controller, otherwise the unit display C5.









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

PG motor locked protection H6:

Probable reasons:

1. Air vents were blocked which may cause the fan speed is too slow;
2. Fan blade locked;
3. Motor locked;
4. Fan motor capacitor damaged;
5. Motor damaged (orders, winding, open circuit or shortcircuit are not normal, when testing the winding, pls distinguish whether the motor body cause temperature is too high so that bring on the thermal protector starts up)
6. IC board damaged (during normally running, there are voltage at both capacity input and output)
7. Mainboard damaged.
8. Motor thermal protection.

Disposal methods:

1. Remove the obstruction;
2. Reassembling;
3. Replace motor;
4. Replace capacitor;
5. Replace motor;
6. Replace circuit board;
7. Replace mainboard;

8. Under the normal circumstances, the motor will not act, but in other circumstances, such as evaporator is very dirty, too much dust attached on the fan blade that will cause the motor overload running, so that during the operation, frequent thermal protection will happen, so it is need to be cleaned or replaced.