1 Summary and features

Panel A:

Panel B:

Panel C:

Panel D:

Panel E:

Models:

GWH09MA-K3NNA1A(Panel A)
GWH09MA-K3NNA2A(Panel B)
GWH09MA-K3NNA3A(Panel C)
GWH09MA-K3NNA4A(Panel D)
GWH09MB-K3NNA3B(Panel C)
GWC09MA-K3NNA3C(Panel C)
GWH09MA-K3NNA3C(Panel C)
GWC09MA-K3NNA2A(Panel B)
GWC09MA-K3NNA5A(SHARP)(Panel E)
GWH12MB-K3NNA1A(Panel A)
GWH12MB-K3NNA2A(Panel B)
GWH12MB-K3NNA3A(Panel C)
GWH12MB-K3NNA4A(Panel D)
GWH12MB-K3NNA3B(Panel C)
GWC12MB-K3NNA3C(Panel C)
GWH12MB-K3NNA3C(Panel C)
GWH12MB-K3NNA2C(Panel B)
GWC12MB-K3NNA2A(Panel B)
GWC18MC-K3NNA3C(Panel C)
GWH18MC-K3NNA3C(Panel C)

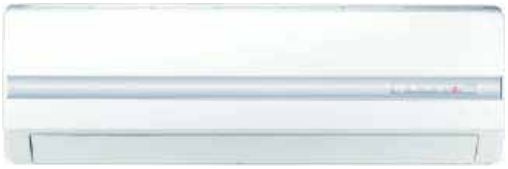
Panel A:

Panel B:

Panel C:

Panel D:

Panel E:



Panel F:

18K Outdoor Unit:

24K Outdoor Unit:

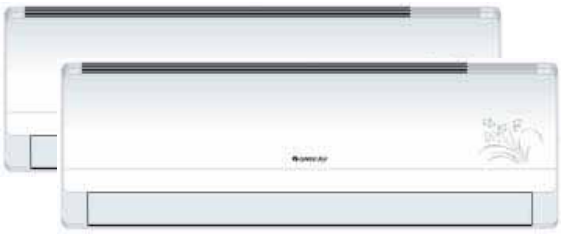
24K Outdoor Unit:

Models:

GWH18MC-K3NNA1A(Panel A)
GWH18MC-K3NNA2A(Panel B)
GWH18MC-K3NNA3A(Panel C)
GWH18MC-K3NNA4A(Panel D)
GWC18MC-K3NNA2A(Panel B)
GWH18MC-K3NNB3A(Panel E)
GWH18MC-K3NNA3B(Panel C)

GWH24MD-K3NNA2A(Panel B)
GWH24MD-K3NNA3A(Panel C)
GWH24MD-K3NNA4A(Panel D)
GWC24MD-K3NNA2A(Panel B)
GWC24MD-K3NNA3A(Panel C)
GWC24MD-K3NNA4A(Panel D)
GWC24MD-K3NNA8A(Panel F)
GWH24MD-K3NNA2B(Panel B)
GWH24MD-K3NNA3B(Panel C)
GWH24MD-K3NNA4B(Panel D)
GWH24MD-K3NNA4B(Suply power by outdoor unit)(Panel D)

Panel A:



Panel B:

Panel C:

Panel D:

Models:

GWH18(09X2)MA-K3NNA1A(Panel A)
GWH18(09X2)MA-K3NNA2A(Panel B)
GWH18(09X2)MA-K3NNA3A(Panel C)
GWH18(09X2)MA-K3NNA4A(Panel D)
GWH21(09+12)MB-K3NNA4A(Panel D)
GWH24(12X2)MB-K3NNA4A(Panel D)

2 Technical specifications

Model		GWH09MA-K3NNA4A、GWH09MA-K3NNA3A、GWH09MA-K3NNA2A、GWH09MA-K3NNA1A	
Function		COOLING	HEATING
Rated Voltage		220-240~	
Rated Frequency		50Hz	
Total Capacity (W/Btu/h)		2600W / 9000(Btu/h)	2800W / 9500(Btu/h)
Power Input (W)		809	775
Rated Input (W)		1120	1020
Rated Current (A)		5	4.5
Air Flow Volume (m^3/h) (H/M/L)		500 (H)	
Dehumidifying Volume (l/h)		0.8	
EER / C.O.P (W/W)		3.21 / 3.61	
Energy Class		A	
Indoor unit	Model of Indoor Unit	GWH09MA-K3NNA4A/I、GWH09MA-K3NNA3A/I、GWH09MA-K3NNA2A/I、GWH09MA-K3NNA1A/I	
	Fan Motor Speed (r/min) (H/M/L)	Cooling:1260/1050/920/730；Heating:1320/1200/1100/950	
	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) x height (H) x 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/M/L)	36/33/30	
	Sound Power Level dB(A) (H/M/L)	48/45/42	
	Dimension (W/H/D) (mm)	790×265×170	
	Dimension of Package (L/W/H) (mm)	870×248×355	
	Net Weight /Gross Weight (kg)	9/12	

Outdoor unit	Model of Outdoor Unit		GWH09MA-K3NNA3A/O
	Compressor Manufacturer/trademark		LANDA
	Compressor Model		QXA-B102uC130
	Compressor Type		Rotary
	L.R.A. (A)		18
	Compressor RLA(A)		3.9
	Compressor Power Input(W)		858
	Overload Protector		B210-150-241H
	Throttling Method		Capillary
	Starting Method		Capacitor
	Working Temp Range (℃)		16-30ºC/-7-48ºC
	Condenser		Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ7
	Rows-Fin Gap(mm)		1-1.4
	Coil length (l) x height (H) x coil width (L)		741×495.3×12.7
	Fan Motor Speed (rpm)		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		Auto defrost
	Climate Type		T1
	Isolation		I
	Moisture Protection		IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2
	Sound Pressure Level dB(A) (H/M/L)		50
	Sound Power Level dB(A) (H/M/L)		60
	Dimension (W/H/D) (mm)		848×540×320
	Dimension of Package (L/W/H)(mm)		878×360×590
	Net Weight /Gross Weight (kg)		26/ 30
	Refrigerant Charge (kg)		R410A/0.75
Connection 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)	15

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

Model		GWH12MB-K3NNA1A		GWH12MB-K3NNA2A	
Function		COOLING	HEATING	COOLING	HEATING
Rated Voltage		220-240V~		220-240V~	
Rated Frequency		50Hz		50Hz	
Total Capacity (W/Btu/h)		3500W(12000Btu/h)	4000W(13640Btu/h)	3500W(12000Btu/h)	4000W(13640Btu/h)
Power Input (W)		1075	1100	1075	1100
Rated Input (W)		1500	1500	1500	1500
Rated Current (A)		8.5	8.5	8.5	8.5
Air Flow Volume (m^3/h) (H/M/L)		(630)/530/430/330		(630)/530/430/330	
Dehumidifying Volume (l/h)		1.2		1.2	
EER / C.O.P (W/W)		3.26/3.64		3.26/3.64	
Energy Class		A		A	
Indoor unit	Model of Indoor Unit	GWH12MB-K3NNA1A/I		GWH12MB-K3NNA2A/I	
	Fan Motor Speed (r/min) (H/M/L)	(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) x height (H) x 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/M/L)	(41)38/34/29		(41)38/34/29	
	Sound Power Level dB(A) (H/M/L)	(51)48/44/39		(51)48/44/39	
	Dimension (W/H/D) (mm)	845×275×180		845×275×180	
	Dimension of Package (L/W/H) (mm)	915×255×355		915×255×355	
	Net Weight /Gross Weight (kg)	10/13		10/13	

Outdoor unit	Model of Outdoor Unit		GWH12MB-K3NNA1A/O	GWH12MB-K3NNA2A/O
	Compressor Manufacturer/trademark		Gree	Gree
	Compressor Model		QXA-133uB030	QXA-133uB030
	Compressor Type		Rotory	Rotory
	L.R.A. (A)		32	32
	Compressor RLA(A)		5.1	5.1
	Compressor Power Input(W)		1160	1160
	Overload Protector		B250-150-141E	B250-150-141E
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (℃)		-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	2-1.4
	Coil length (l) x height (H) x coil width (L)		731×495×25.4	731×495×25.4
	Fan Motor Speed (rpm)		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)		3.8	3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2	1.2
	Sound Pressure Level dB (A) (H/M/L)		51	51
	Sound Power Level dB (A) (H/M/L)		61	61
	Dimension (W/H/D) (mm)		848×540×320	848×540×320
	Dimension of Package (L/W/H)(mm)		878×360×580	878×360×580
	Net Weight /Gross Weight (kg)		40/44	40/44
	Refrigerant Charge (kg)		R410A/1.10	R410A/1.10
Conne-ction 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)	10	10
		Length (m)	20	20

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

Model		GWH12MB-K3NNA3A		GWH12MB-K3NNA4A	
Function		COOLING	HEATING	COOLING	HEATING
Rated Voltage		220-240V~		220-240V~	
Rated Frequency		50Hz		50Hz	
Total Capacity (W/Btu/h)		3500W(12000Btu/h)	4000W(13640Btu/h)	3516W(12000Btu/h)	4000W(13640Btu/h)
Power Input (W)		1075	1100	1075	1100
Rated Input (W)		1500	1500	1500	1500
Rated Current (A)		8.5	8.5	8.5	8.5
Air Flow Volume (m^3/h) (H/M/L)		(630)/530/430/330		(630)/530/430/330	
Dehumidifying Volume (l/h)		1.2		1.2	
EER / C.O.P (W/W)		3.26/3.64		3.26/3.64	
Energy Class		A		A	
Indoor unit	Model of Indoor Unit	GWH12MB-K3NNA3A/I		GWH12MB-K3NNA4A/I	
	Fan Motor Speed (r/min) (H/M/L)	(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) x height (H) x 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/M/L)	(41)38/34/29		(41)38/34/29	
	Sound Power Level dB (A) (H/M/L)	(51)48/44/39		(51)48/44/39	
	Dimension (W/H/D) (mm)	845×275×180		845×275×180	
	Dimension of Package (L/W/H) (mm)	915×255×355		915×255×355	
	Net Weight /Gross Weight (kg)	10/13		10/13	

Outdoor unit	Model of Outdoor Unit		GWH12MB-K3NNA3A/O	GWH12MB-K3NNA4A/O
	Compressor Manufacturer/trademark		Gree	Gree
	Compressor Model		QXA-133uB030	QXA-133uB030
	Compressor Type		Rotory	Rotory
	L.R.A. (A)		32	32
	Compressor RLA(A)		5.1	5.1
	Compressor Power Input(W)		1160	1160
	Overload Protector		B250-150-141E	B250-150-141E
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (℃)		-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	2-1.4
	Coil length (l) x height (H) x coil width (L)		731×495×25.4	731×495×25.4
	Fan Motor Speed (rpm)		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)		3.8	3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2	1.2
	Sound Pressure Level dB (A) (H/M/L)		51	51
	Sound Power Level dB (A) (H/M/L)		61	61
	Dimension (W/H/D) (mm)		848×540×320	848×540×320
	Dimension of Package (L/W/H)(mm)		878×360×580	878×360×590
	Net Weight /Gross Weight (kg)		40/44	40/44
	Refrigerant Charge (kg)		R410A/1.10	R410A/1.10
Conne-ction 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)	10	10
		Length (m)	20	20

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

Model		GWH18MC-K3NNA1A、GWH18MC-K3NNA2A、GWH18MC-K3NNA3A、GWH18MC-K3NNA4A	
Function		COOLING	HEATING
Rated Voltage		220-240V~	
Rated Frequency		50Hz	
Total Capacity (W)		5300	5700
Power Input (W)		1640	1670
Rated Input (W)		2500	2550
Rated Current (A)		10.9	11.1
Air Flow Volume (m^3/h) (S/H/M/L)		850/780/650/550	
Dehumidifying Volume (l/h)		3	
EER / C.O.P (W/W)		3.21	
Energy Class		A	
Indoor unit	Model of Indoor Unit	GWH18MC-K3NNA1A/I、GWH18MC-K3NNA2A/I、GWH18MC-K3NNA3A/I、GWH18MC-K3NNA4A/I	
	Fan Motor Speed (r/min) (S/H/M/L)	1350/1200/1050/900	
	Output of Fan Motor (w)	20	
	Input of Heater (w)	/	
	Fan Motor Capacitor (uF)	1	
	Fan Motor RLA(A)	0.25	
	Fan Type-Piece	Cross flow fan – 1	
	Diameter-Length (mm)	φ96 X 797	
	Evaporator	Aluminum fin-copper tube	
	Pipe Diameter (mm)	Φ7	
	Row-Fin Gap(mm)	2-1.4	
	Coil length (l) x height (H) x coil width (L)	715X304.8X25.4	
	Swing Motor Model	MP28VB	
	Output of Swing Motor (W)	2.5	
	Fuse (A)	PCB 3.15A Transformer 0.2A	
	Sound Pressure Level dB(A) (H/M/L)	48/45/42/38	
	Sound Power Level dB(A) (H/M/L)	58/55/52/48	
	Dimension (W/H/D) (mm)	940X200X298	
	Dimension of Package (L/W/H) (mm)	1010X285X380	
	Net Weight /Gross Weight (kg)	13/17	

Outdoor unit	Model of Outdoor Unit		GWH18MC-K3NNA3A/O
	Compressor Manufacturer/trademark		Shanghai Hitachi Electrical Appliances Co,Ltd./Highly
	Compressor Model		ASH210SV-C8LU
	Compressor Type		rotary compressor
	L.R.A. (A)		40
	Compressor RLA(A)		7.5
	Compressor Power Input(W)		1725
	Overload Protector		built in
	Throttling Method		Capillary
	Starting Method		Capacitor
	Working Temp Range (℃)		-7℃≤T≤43℃
	Condenser		Aluminum fin-copper tube
	Pipe Diameter (mm)		7
	Rows-Fin Gap(mm)		2-1.4
	Coil length (l) x height (H) x coil width (L)		806×660×25.4
	Fan Motor Speed (rpm)		860
	Output of Fan Motor (W)		48
	Fan Motor RLA(A)		0.62
	Fan Motor Capacitor (uF)		3.5
	Air Flow Volume of Outdoor Unit		2790m3/h
	Fan Type-Piece		Axial fan –1
	Fan Diameter (mm)		Φ473
	Defrosting Method		Auto defrost
	Climate Type		T1
	Isolation		I
	Moisture Protection		IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2
	Sound Pressure Level dB (A) (H/M/L)		56/54/52
	Sound Power Level dB (A) (H/M/L)		66/64/62
	Dimension (W/H/D) (mm)		913X378X680
	Dimension of Package (L/W/H)(mm)		994X428X725
	Net Weight /Gross Weight (kg)		46/50
	Refrigerant Charge (kg)		R410/1.5
Conne-ction Pipe	Length (m)		4
	Gas additional charge(g/m)		50
	Outer Diameter	Liquid Pipe (mm)	Φ6
		Gas Pipe (mm)	Φ12
	Max Distance	Height (m)	10
		Length (m)	25

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

Model		GWH18(09X2)MA-K3NNA1A、GWH18(09X2)MA-K3NNA2A、GWH18(09X2)MA-K3NNA3A、GWH18(09X2)MA-K3NNA4A	
Function		COOLING	HEATING
Rated Voltage		220-240~	
Rated Frequency		50Hz	
Total Capacity (W/Btu/h)		2800×2W	3000×2W
Power Input (W)		1860	1760
Rated Input (W)		2450	2300
Rated Current (A)		12	11
Air Flow Volume (m^3/h) (H/M/L)**		500 (H)	
Dehumidifying Volume (l/h)		3.5	
EER / C.O.P (W/W)		3.01 / 3.41	
Energy Class		B / B	
Indoor unit	Model of Indoor Unit	GWH(09)MA-K3NNA1A/I、GWH(09)MA-K3NNA2A/I、GWH(09)MA-K3NNA3A/I、GWH(09)MA-K3NNA4A/I	
	Fan Motor Speed (r/min) (H/M/L)	Cooling:1260/1050/920/730；Heating:1320/1200/1100/950	
	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) x height (H) x coil width (L)	581X264X25.4	
	Swing Motor Model	MP24AA	
	Output of Swing Motor (W)	2	
	Fuse (A)	PCB 3.15A Transformer 0.2A	
	Sound Pressure Level dB(A) (H/M/L)	36/33/30	
	Sound Power Level dB(A) (H/M/L)	48/45/42	
	Dimension (W/H/D) (mm)	790×265×170	
	Dimension of Package (L/W/H) (mm)	870×248×355	
	Net Weight /Gross Weight (kg)	9/12	

Outdoor unit	Model of Outdoor Unit		GWH18(09X2)MA-K3NNA3A/O
	Compressor Manufacturer/trademark		LANDA
	Compressor Model		QXA-B109uB030
	Compressor Type		Rotary
	L.R.A. (A)		20
	Compressor RLA(A)		4
	Compressor Power Input(W)		925
	Overload Protector		B165-150-241H
	Throttling Method		Capillary
	Starting Method		Capacitor
	Working Temp Range (℃)		16-30ºC/-7-48ºC
	Condenser		Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ7
	Rows-Fin Gap(mm)		2-1.4
	Coil length (l) x height (H) x coil width (L)		664×178×25.4
	Fan Motor Speed (rpm)		840
	Output of Fan Motor (W)		68
	Fan Motor RLA(A)		0.65
	Fan Motor Capacitor (uF)		3.5
	Air Flow Volume of Outdoor Unit		5000
	Fan Type-Piece		Axial fan –1
	Fan Diameter (mm)		Φ472
	Defrosting Method		Auto defrost
	Climate Type		T1
	Isolation		I
	Moisture Protection		IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2
	Sound Pressure Level dB (A) (H/M/L)		60
	Sound Power Level dB (A) (H/M/L)		70
	Dimension (W/H/D) (mm)		1018×700×412
	Dimension of Package (L/W/H)(mm)		1100×450×755
	Net Weight /Gross Weight (kg)		58 / 63
	Refrigerant Charge (kg)		R410A / 1.01×2
Conne-ction 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)	25

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

Model		GWH09MB-K3NNA3B		GWH12MB-K3NNA3B	
Function		COOLING	HEATING	COOLING	HEATING
Rated Voltage		220-240V~		220-240V~	
Rated Frequency		50Hz		50Hz	
Total Capacity (W/Btu/h)		2700W(9000Btu/h)	2800W(9450Btu/h)	3250W(11092Btu/h)	3250W(11092Btu/h)
Power Input (W)		810	820	975	975
Rated Input (W)		1120	1020	1350	1350
Rated Current (A)		5	4.5	5.5	6.5
Air Flow Volume (m^3/h) (H/M/L)		(630)/530/430/330		(630)/530/430/330	
Dehumidifying Volume (l/h)		/		/	
EER / C.O.P (W/W)		3.33/3.41		3.33/3.33	
Energy Class		A		A	
Indoor unit	Model of Indoor Unit	GWH09MB-K3NNA3B/I		GWH12MB-K3NNA3B/I	
	Fan Motor Speed (r/min) (H/M/L)	(1260)/1050/920/730		(1260)/1050/920/730	
	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 X645		φ92 X645	
	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) x height (H) x 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/M/L)	(40)37/35/32		(40)37/35/32	
	Sound Power Level dB (A) (H/M/L)	(50)47/45/42		(50)47/45/42	
	Dimension (W/H/D) (mm)	845×275×180		845×275×180	
	Dimension of Package (L/W/H) (mm)	915×255×355		915×255×355	
	Net Weight /Gross Weight (kg)	10/13		10/13	

Outdoor unit	Model of Outdoor Unit		GWH09MB-K3NNA3B/O	GWH12MB-K3NNA3B/O
	Compressor Manufacturer/trademark		Gree	Gree
	Compressor Model		QXA-B102uC030	RN125VHFMC
	Compressor Type		Rotory	Rotory
	L.R.A. (A)		18	23-26
	Compressor RLA(A)		3.9	23-26
	Compressor Power Input(W)		858	950
	Overload Protector		B210-150-241H	Built in
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (℃)		-7～43	16-30ºC/-7-48ºC
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ7	Φ7
	Rows-Fin Gap(mm)		2-1.4	2-1.4
	Coil length (l) x height (H) x coil width (L)		741×495×25.4	764×550×44
	Fan Motor Speed (rpm)		850	890
	Output of Fan Motor (W)		30	30
	Fan Motor RLA(A)		0.23	0.35
	Fan Motor Capacitor (uF)		2	/
	Air Flow Volume of Outdoor Unit		1500	2000
	Fan Type-Piece		Axial fan –1	Axial fan –1
	Fan Diameter (mm)		Φ400	Φ400
	Defrosting Method		Auto defrost	Auto defrost
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		3.8	3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2	1.2
	Sound Pressure Level dB (A) (H/M/L)		50	52
	Sound Power Level dB (A) (H/M/L)		60	62
	Dimension (W/H/D) (mm)		848×540×320	848×320×592
	Dimension of Package (L/W/H)(mm)		878×360×580	878×360×630
	Net Weight /Gross Weight (kg)		40/44	41/46
	Refrigerant Charge (kg)		R410A/0.88kg	R410A/1.05
Conne-ction Pipe	Length (m)		7.5	7.5
	Gas additional charge(g/m)		25	25
	Outer Diameter	Liquid Pipe (mm)	Φ6(1/4”)	Φ6(1/4”)
		Gas Pipe (mm)	Φ9.52(3/8”)	Φ12(1/2”)
	Max Distance	Height (m)	10	10
		Length (m)	15	20

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

Model		GWH21(09+12)MB-K3NNA4A		GWH24(12X2)MB-K3NNA4A	
Function		COOLING	HEATING	COOLING	HEATING
Rated Voltage		220-240V~		220-240V~	
Rated Frequency		50Hz		50Hz	
Total Capacity (W/Btu/h)		2800+3500W	3000+3800W	3500X2(W)	3600X2(W)
Power Input (W)		2090W	1990W	2325(W)	2111(W)
Rated Input (W)		2855W	2700W	3100(W)	2650(W)
Rated Current (A)		12	11	15.2	14
Air Flow Volume (m^3/h) (H/M/L)		500+630m^3/h （SH）		630X2 m3/h（SH）	
Dehumidifying Volume (l/h)		0.8+1.2		1.2X2	
EER / C.O.P (W/W)		3.01/3.41		3.01/3.41	
Energy Class		B/B		B/B	
Indoor unit	Model of Indoor Unit	GWH(09)MA-K3NNA4A/I	GWH(12)MB-K3NNA4A/I	GWH(12)MB-K3NNA4A/I	
	Fan Motor Speed (r/min) (H/M/L)	Cooling: 1260/1050/920/730; Heating: 1320/1200/1100/950	Cooling: 1260/1070/900/730; Heating: 1260/1070/900/730	(1260)/1070/900/730	
	Output of Fan Motor (w)	10	20	20	
	Input of Heater (w)	/	/	/	
	Fan Motor Capacitor (uF)	1	1	1	
	Fan Motor RLA(A)	0.1	0.254	0.254	
	Fan Type-Piece	Cross flow fan – 1	Cross flow fan – 1	Cross flow fan – 1	
	Diameter-Length (mm)	Φ85X 596	φ92 X 645	φ92 X 645	
	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	2-1.4	2-1.4	
	Coil length (l) x height (H) x coil width (L)	581X264X25.4	645X25.4X267	645X25.4X267	
	Swing Motor Model	MP24AA	MP24AA	MP24AA	
	Output of Swing Motor (W)	1.5	2.4	2.4	
	Fuse (A)	PCB 3.15A Transformer 0.2A	PCB 3.15A Transformer 0.2A	PCB 3.15A Transformer 0.2A	
	Sound Pressure Level dB (A) (H/M/L)	37/33/28	(41)38/34/29	(41)38/34/29	
	Sound Power Level dB (A) (H/M/L)	47/40/36	(51)48/44/39	(51)48/44/39	
	Dimension (W/H/D) (mm)	790×265×170	845×275×180	845×275×180	
	Dimension of Package (L/W/H) (mm)	870X248X355	915×255×355	915×255×355	
	Net Weight /Gross Weight (kg)	9/12	10/13	10/13	

Outdoor unit	Model of Outdoor Unit		GWH21(09+12)MB-K3NNA4A/O	GWH24(12X2)MB-K3NNA4A
	Compressor Manufacturer/trademark		MITSUBISHI	MITSUBISHI
	Compressor Model		KN104VGMMC/RN145VHEMC	RN135VHEMC
	Compressor Type		revolving	Rotary
	L.R.A. (A)		19/27	27
	Compressor RLA(A)		4.08/5.7	5
	Compressor Power Input(W)		895/1230	1130
	Overload Protector		-	-
	Throttling Method		Capillary	Capillary
	Starting Method		Capacito	Capacito
	Working Temp Range (℃)		16-30ºC/-7-48ºC	16-30ºC/-7-48ºC
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ8	Φ8
	Rows-Fin Gap(mm)		2-1.4	2-1.4
	Coil length (l) x height (H) x coil width (L)		660x216x38.1	660x216x38.1
	Fan Motor Speed (rpm)		840	840
	Output of Fan Motor (W)		68	68
	Fan Motor RLA(A)		0.65	0.65
	Fan Motor Capacitor (uF)		3.5	3.5
	Air Flow Volume of Outdoor Unit		5000	5000
	Fan Type-Piece		Axial fan –1	Axial fan –1
	Fan Diameter (mm)		Φ472	Φ472
	Defrosting Method		Auto defrost	Auto defrost
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		3.8	3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2	1.2
	Sound Pressure Level dB (A) (H/M/L)		60	60
	Sound Power Level dB (A) (H/M/L)		70	70
	Dimension (W/H/D) (mm)		950×420×700	950×420×700
	Dimension of Package (L/W/H)(mm)		1100×450×755	1100×450×755
	Net Weight /Gross Weight (kg)		65/70	65/70
	Refrigerant Charge (kg)		R410A /0.93+1.10	R410A /1.0X2
Conne-ction Pipe	Length (m)		4	4
	Gas additional charge(g/m)		30	30
	Outer Diameter	Liquid Pipe (mm)	Φ6(1/4”)	Φ6
		Gas Pipe (mm)	Φ9.52(3/8”)+Φ12(1/2”)	Φ12
	Max Distance	Height (m)	10	10
		Length (m)	20	20

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

Model		GWC09MA-K3NNA2A、GWC09MA-K3NNA5A(SHARP)	GWC12MB-K3NNA2A
Function		COOLING	COOLING
Rated Voltage		220-240~	220-240V~
Rated Frequency		50Hz	50Hz
Total Capacity (W/Btu/h)		2600W / 9000(Btu/h)	3500W
Power Input (W)		800	1075
Rated Input (W)		1120	1500
Rated Current (A)		5	8.5
Air Flow Volume (m^3/h) (H/M/L)		500 (H)	600
Dehumidifying Volume (l/h)		0.8	/
EER / C.O.P (W/W)		3.25	3.25
Energy Class		A	A
Indoor unit	Model of Indoor Unit	GWC09MA-K3NNA2A/I、GWC09MA-K3NNA5A/I (SHARP)	GWC12MB-K3NNA2A/I
	Fan Motor Speed (r/min) (H/M/L)	1260/1050/920/730	(1260)/1070/900/730
	Output of Fan Motor (w)	10	20
	Input of Heater (w)	/	/
	Fan Motor Capacitor (uF)	1	1
	Fan Motor RLA(A)	0.1	0.254
	Fan Type-Piece	Cross flow fan – 1	Cross flow fan – 1
	Diameter-Length (mm)	φ85×596	φ92 X 645
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)	Φ7	7
	Row-Fin Gap(mm)	2-1.5	2-1.4
	Coil length (l) x height (H) x coil width (L)	581X264X25.4	645X25.4X267
	Swing Motor Model	MP24AA	MP24AA
	Output of Swing Motor (W)	1.5	2.4
	Fuse (A)	PCB 3.15A Transformer 0.2A	PCB 3.15A
	Sound Pressure Level dB (A) (H/M/L)	36/33/30	42/39/36/33
	Sound Power Level dB (A) (H/M/L)	48/45/42	52/49/46/43
	Dimension (W/H/D) (mm)	790×265×170	845×275×180
	Dimension of Package (L/W/H) (mm)	870×248×355	915×255×355
	Net Weight /Gross Weight (kg)	9/12	10/13

Outdoor unit	Model of Outdoor Unit		GWC09MA-K3NNA2A/O	GWC12MB-K3NNA2A/O
	Compressor Manufacturer/trademark		LANDA	Gree
	Compressor Model		QXA-B102uC130	QXA-133uB030
	Compressor Type		Rotary	Rotory
	L.R.A. (A)		18	32
	Compressor RLA(A)		3.9	5.1
	Compressor Power Input(W)		858	1160
	Overload Protector		B210-150-241H	B250-150-141E
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (℃)		16-30ºC/-7-48ºC	-7～43
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ7	7
	Rows-Fin Gap(mm)		1-1.4	2-1.6
	Coil length (l) x height (H) x coil width (L)		741×495.3×12.7	731*495*25.4
	Fan Motor Speed (rpm)		850	850
	Output of Fan Motor (W)		30	30
	Fan Motor RLA(A)		0.23	0.35
	Fan Motor Capacitor (uF)		2	2
	Air Flow Volume of Outdoor Unit		1500	1700
	Fan Type-Piece		Axial fan –1	Axial fan –1
	Fan Diameter (mm)		Φ400	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)		3.8	3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2	1.2
	Sound Pressure Level dB (A) (H/M/L)		50	52
	Sound Power Level dB (A) (H/M/L)		60	62
	Dimension (W/H/D) (mm)		848×540×320	848X540X320
	Dimension of Package (L/W/H)(mm)		878×360×580	878X360X590
	Net Weight /Gross Weight (kg)		25/ 29	40/44
	Refrigerant Charge (kg)		R410A/0.75	R410A/1.04
Conne-ction Pipe	Length (m)		4	5
	Gas additional charge(g/m)		30	25
	Outer Diameter	Liquid Pipe (mm)	Φ6(1/4")	Φ6(1/4")
		Gas Pipe (mm)	Φ9.52(3/8")	Φ12(1/2")
	Max Distance	Height (m)	10	10
		Length (m)	20	20

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

Model		GWC24MD-K3NNA2A、GWC24MD-K3NNA3A、GWC24MD-K3NNA4A、GWC24MD-K3NNA8A	GWC18MC-K3NNA2A
Function		COOLING	COOLING
Rated Voltage		220-240V~	220-240V~
Rated Frequency		50 Hz	50Hz
Total Capacity (W/Btu/h)		6500	5300
Power Input (W)		2160	1735
Rated Input (W)		2650	2500
Rated Current (A)		13.4	10.9
Air Flow Volume (m^3/h) (H/M/L)		900	850/780/650/550
Dehumidifying Volume (l/h)		2.4	3
EER / C.O.P (W/W)		3.01	3.05
Energy Class		B	B
Indoor unit	Model of Indoor Unit	GWC24MD-K3NNA2A/I、GWC24MD-K3NNA3A/I、GWC24MD-K3NNA4A/I、GWC24MD-K3NNA8A/I	GWC18MC-K3NNA2A/I
	Fan Motor Speed (r/min) (H/M/L)	1250/1100/950/800	1350/1200/1050/900
	Output of Fan Motor (w)	35	20
	Input of Heater (w)	/	/
	Fan Motor Capacitor (uF)	2.5	1
	Fan Motor RLA(A)	0.255	0.25
	Fan Type-Piece	Cross flow fan – 1	Cross flow fan – 1
	Diameter-Length (mm)	φ98 X 765	φ96 X 797
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)	φ7	Φ7
	Row-Fin Gap(mm)	1.5	2-1.4
	Coil length (l) x height (H) x coil width (L)	765X342.9X25.4	715X304.8X25.4
	Swing Motor Model	MP35XX	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)	46/43/40/35	48/45/42/38
	Sound Power Level dB (A) (H/M/L)	56/53/50/45	58/55/52/48
	Dimension (W/H/D) (mm)	1007x315x219	940X200X298
	Dimension of Package (L/W/H) (mm)	1073x395x313	1010X285X380
	Net Weight /Gross Weight (kg)	15.5/20.5	13/17

Outdoor unit	Model of Outdoor Unit		GWC24MD-K3NNA2A/O	GWC18MC-K3NNA2A/O
	Compressor Manufacturer/trademark		Landa	Shanghai Hitachi Electrical Appliances Co,Ltd./Highly
	Compressor Model		QXA-F265N030	ASH210SV-C8LU
	Compressor Type		rotary	rotary compressor
	L.R.A. (A)		49.5	40
	Compressor RLA(A)		10.6	7.5
	Compressor Power Input(W)		2220	1725
	Overload Protector		built in	built in
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (℃)		21℃≤T≤43℃	21℃≤T≤43℃
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ7	7
	Rows-Fin Gap(mm)		2-1.4	2-1.4
	Coil length (l) x height (H) x coil width (L)		853X660X38.1	806×660×25.4
	Fan Motor Speed (rpm)		690	860
	Output of Fan Motor (W)		60	48
	Fan Motor RLA(A)		0.56	0.62
	Fan Motor Capacitor (uF)		3.5	3.5
	Air Flow Volume of Outdoor Unit		2900m^3/h	2790m3/h
	Fan Type-Piece		Axial fan –3	Axial fan –1
	Fan Diameter (mm)		Φ520	Φ473
	Defrosting Method		/	Auto defrost
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		3.8	3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2	1.2
	Sound Pressure Level dB (A) (H/M/L)		56	56/54/52
	Sound Power Level dB (A) (H/M/L)		66	66/64/62
	Dimension (W/H/D) (mm)		955 X700X396	913X378X680
	Dimension of Package (L/W/H)(mm)		1030/460/735	994X428X725
	Net Weight /Gross Weight (kg)		54/59	46/50
	Refrigerant Charge (kg)		R410a/1.5	R410/1.1
Conne-ction Pipe	Length (m)		4	4
	Gas additional charge(g/m)		50	50
	Outer Diameter	Liquid Pipe (mm)	Φ6	Φ6
		Gas Pipe (mm)	Φ16	Φ12
	Max Distance	Height (m)	10	10
		Length (m)	25	25

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

Model		GWC09MA-K3NNA3C	GWH09MA-K3NNA3C	
Function		COOLING	COOLING	HEATING
Rated Voltage		220-240~	220-240~	
Rated Frequency		50Hz	50Hz	
Total Capacity (W/Btu/h)		2600W / 9000(Btu/h)	2600W / 9000(Btu/h)	2800W / 9500(Btu/h)
Power Input (W)		800	809	775
Rated Input (W)		1120	1120	1020
Rated Current (A)		5	5	4.5
Air Flow Volume (m^3/h) (H/M/L)		500 (H)	500 (H)	
Dehumidifying Volume (l/h)		0.8	0.8	
EER / C.O.P (W/W)		3.25	3.21 / 3.61	
Energy Class		A	A	
Indoor unit	Model of Indoor Unit	GWC09MA-K3NNA3C /I	GWH09MA-K3NNA3C/I	
	Fan Motor Speed (r/min) (H/M/L)	1260/1050/920/730	Cooling:1260/1050/920/730; Heating: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)	0.1	0.1	
	Fan Type-Piece	Cross flow fan – 1	Cross flow fan – 1	
	Diameter-Length (mm)	φ85×596	φ85×596	
	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) x height (H) x coil width (L)	581X264X25.4	581X264X25.4	
	Swing Motor Model	MP24AA	MP24AA	
	Output of Swing Motor (W)	1.5	1.5	
	Fuse (A)	PCB 3.15A Transformer 0.2A	PCB 3.15A Transformer 0.2A	
	Sound Pressure Level dB (A) (H/M/L)	37/33/30	37/33/30	
	Sound Power Level dB (A) (H/M/L)	47/43/40	47/43/40	
	Dimension (W/H/D) (mm)	790×265×170	790×265×170	
	Dimension of Package (L/W/H) (mm)	870×248×355	870×248×355	
	Net Weight /Gross Weight (kg)	9/12	9/12	

Outdoor unit	Model of Outdoor Unit		GWC09MA-K3NNA3C /O	GWH09MA-K3NNA3C /O
	Compressor Manufacturer/trademark		LANDA	LANDA
	Compressor Model		QXA-B102uC130	QXA-B102uC130
	Compressor Type		Rotary	Rotary
	L.R.A. (A)		18	18
	Compressor RLA(A)		3.9	3.9
	Compressor Power Input(W)		858	858
	Overload Protector		B210-150-241H	B210-150-241H
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (℃)		16-30ºC/-7-48ºC	16-30ºC/-7-48ºC
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ7	Φ7
	Rows-Fin Gap(mm)		1-1.4	1-1.4
	Coil length (l) x height (H) x coil width (L)		741×495.3×12.7	741×495.3×12.7
	Fan Motor Speed (rpm)		850	850
	Output of Fan Motor (W)		30	30
	Fan Motor RLA(A)		0.23	0.23
	Fan Motor Capacitor (uF)		2	2
	Air Flow Volume of Outdoor Unit		1500	1500
	Fan Type-Piece		Axial fan –1	Axial fan –1
	Fan Diameter (mm)		Φ400	Φ400
	Defrosting Method		Auto defrost	Auto defrost
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		3.8	3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2	1.2
	Sound Pressure Level dB (A) (H/M/L)		50	50
	Sound Power Level dB (A) (H/M/L)		60	60
	Dimension (W/H/D) (mm)		835×545×320	835×545×320
	Dimension of Package (L/W/H)(mm)		990×405×600	990×405×600
	Net Weight /Gross Weight (kg)		28/ 32	29/ 33
	Refrigerant Charge (kg)		R410A/0.75	R410A/0.75
Conne-ction 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)	10	10
		Length (m)	15	15

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

Model		GWC12MB-K3NNA3C		GWH12MB-K3NNA3C	
Function		COOLING	HEATING	COOLING	HEATING
Rated Voltage		220-240v~		220-240v~	
Rated Frequency		50HZ		50HZ	
Total Capacity (W/Btu/h)		3500(W)/ 12000(Btu/h)	/	3500(W)/ 12000(Btu/h)	3700(W)/ 12600(Btu/h)
Power Input (W)		1075W	/	1075W	1100W
Rated Input (W)		1500W	/	1500W	1500W
Rated Current (A)		8.5	/	8.5	8.5
Air Flow Volume (m^3/h) (H/M/L)		(630)/530/430/330		(630)/530/430/330	
Dehumidifying Volume (l/h)		/		/	
EER / C.O.P (W/W)		3.21		3.21/3.61	
Energy Class		A		A	
Indoor unit	Model of Indoor Unit	GWC12MB-K3NNA3C/I		GWH12MB-K3NNA3C/I	
	Fan Motor Speed (r/min) (H/M/L)	(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) x height (H) x 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/M/L)	(42)38/34/29		(42)38/34/29	
	Sound Power Level dB (A) (H/M/L)	(5248/44/39		(5248/44/39	
	Dimension (W/H/D) (mm)	845×275×180		845×275×180	
	Dimension of Package (L/W/H) (mm)	915×255×355		915×255×355	
	Net Weight /Gross Weight (kg)	10/13		10/13	

Outdoor unit	Model of Outdoor Unit		GWC12MB-K3NNA3C/O	GWH12MB-K3NNA3C/O
	Compressor Manufacturer/trademark		Gree	Gree
	Compressor Model		QXA-133uB030	QXA-133uB030
	Compressor Type		Rotory	Rotory
	L.R.A. (A)		32	32
	Compressor RLA(A)		5.1	5.1
	Compressor Power Input(W)		1160	1160
	Overload Protector		B250-150-141E	B250-150-141E
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (℃)		-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	2-1.4
	Coil length (l) x height (H) x coil width (L)		731×495×25.4	731×495×25.4
	Fan Motor Speed (rpm)		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)		3.8	3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2	1.2
	Sound Pressure Level dB (A) (H/M/L)		52	52
	Sound Power Level dB (A) (H/M/L)		62	62
	Dimension (W/H/D) (mm)		835×545×320	835×545×320
	Dimension of Package (L/W/H)(mm)		990×405×600	990×405×600
	Net Weight /Gross Weight (kg)		40/44	40/44
	Refrigerant Charge (kg)		R410A/1.10	R410A/1.10
Conne-ction 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)	10	10
		Length (m)	20	20

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

Model		GWC18MC-K3NNA3C		GWH18MC-K3NNA3C	
Function		COOLING	HEATING	COOLING	HEATING
Rated Voltage		220-240v~		220-240v~	
Rated Frequency		50HZ		50HZ	
Total Capacity (W/Btu/h)		16000(Btu/h)	/	4700(W)/16000(Btu/h)	5000(W)/17000(Btu/h)
Power Input (W)		1464W	/	1464W	1466W
Rated Input (W)		1850W	/	1850W	1900W
Rated Current (A)		9.3	/	9.3	9.6
Air Flow Volume (m^3/h) (H/M/L)		550/480/420		550/480/420	
Dehumidifying Volume (l/h)		/		/	
EER / C.O.P (W/W)		3.21		3.21/3.41	
Energy Class		A/B		A/B	
Indoor unit	Model of Indoor Unit	GWC18MC-K3NNA3C/I		GWH18MC-K3NNA3C/I	
	Fan Motor Speed (r/min) (H/M/L)	1250/1100/950		1250/1100/950	
	Output of Fan Motor (w)	20		20	
	Input of Heater (w)	/		/	
	Fan Motor Capacitor (uF)	1		1	
	Fan Motor RLA(A)	0.2		0.2	
	Fan Type-Piece	Cross flow fan – 1		Cross flow fan – 1	
	Diameter-Length (mm)	φ92 X645		φ92 X645	
	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) x height (H) x 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/M/L)	41/37/34		41/37/34	
	Sound Power Level dB (A) (H/M/L)	51/47/44		51/47/44	
	Dimension (W/H/D) (mm)	845×275×180		845×270×180	
	Dimension of Package (L/W/H) (mm)	915×255×355		915×255×355	
	Net Weight /Gross Weight (kg)	10/13		10/13	

Outdoor unit	Model of Outdoor Unit		GWC18MC-K3NNA3C /O	GWH18MC-K3NNA3C/O
	Compressor Manufacturer/trademark		HITACHI	HITACHI
	Compressor Model		ASL180SV-C7LU	ASL180SV-C7LU
	Compressor Type		Rotory	Rotory
	L.R.A. (A)		32	32
	Compressor RLA(A)		6.8	6.8
	Compressor Power Input(W)		1500	1500
	Overload Protector		interior	interior
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (℃)		-7～43	-7～43
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		9.52	9.52
	Rows-Fin Gap(mm)		2-1.4	2-1.4
	Coil length (l) x height (H) x coil width (L)		824×512×25.4	824×512×25.4
	Fan Motor Speed (rpm)		900	900
	Output of Fan Motor (W)		48	48
	Fan Motor RLA(A)		0.55	0.55
	Fan Motor Capacitor (uF)		2	2.5
	Air Flow Volume of Outdoor Unit		2000	2000
	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)		3.8	3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2	1.2
	Sound Pressure Level dB (A) (H/M/L)		55	55
	Sound Power Level dB (A) (H/M/L)		65	65
	Dimension (W/H/D) (mm)		835×545×320	835×545×320
	Dimension of Package (L/W/H)(mm)		990×405×600	990×405×600
	Net Weight /Gross Weight (kg)		40/45	40/45
	Refrigerant Charge (kg)		R410A/1.30	R410A/1.30
Conne-ction 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)	10	10
		Length (m)	20	20

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

Model		GWH24MD-K3NNA2A		GWH24MD-K3NNA4A	
Function		COOLING	HEATING	COOLING	HEATING
Rated Voltage		220-240V~		220-240V~	
Rated Frequency		50 Hz		50 Hz	
Total Capacity (W/Btu/h)		6600	7250	6600	7250
Power Input (W)		2056	2126	2056	2126
Rated Input (W)		2500	2650	2500	2650
Rated Current (A)		12.6	13.4	12.6	13.4
Air Flow Volume (m^3/h) (H/M/L)		900		900	
Dehumidifying Volume (l/h)		2.4		2.4	
EER / C.O.P (W/W)		3.21/3.41		3.21/3.41	
Energy Class		A/B		A/B	
Indoor unit	Model of Indoor Unit	GWH24MD-K3NNA2A/I		GWH24MD-K3NNA4A/I	
	Fan Motor Speed (r/min) (H/M/L)	Cool：1250/1100/950/800；Heat：1300/1150/1000/850		Cool：1250/1100/950/800；Heat：1300/1150/1000/850	
	Output of Fan Motor (w)	35		35	
	Input of Heater (w)	/		/	
	Fan Motor Capacitor (uF)	2.5		2.5	
	Fan Motor RLA(A)	0.255		0.255	
	Fan Type-Piece	Cross flow fan – 1		Cross flow fan – 1	
	Diameter-Length (mm)	φ98 X 765		φ98 X 765	
	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) x height (H) x coil width (L)	765X342.9X25.4		765X342.9X25.4	
	Swing Motor Model	MP35XX		MP35XX	
	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)	46/43/40/35		46/43/40/35	
	Sound Power Level dB (A) (H/M/L)	56/53/50/45		56/53/50/45	
	Dimension (W/H/D) (mm)	1007x315x219		1007x315x219	
	Dimension of Package (L/W/H) (mm)	1073x395x313		1073x395x313	
	Net Weight /Gross Weight (kg)	15.5/20.5		15.5/20.5	

Outdoor unit	Model of Outdoor Unit		GWH24MD-K3NNA3A/O	GWH24MD-K3NNA3A/O
	Compressor Manufacturer/trademark		Landa	Landa
	Compressor Model		QXA-F265N030	QXA-F265N030
	Compressor Type		rotary	rotary
	L.R.A. (A)		49.5	49.5
	Compressor RLA(A)		10.6	10.6
	Compressor Power Input(W)		2220	2220
	Overload Protector		built in	built in
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (℃)		-7℃≤T≤43℃	-7℃≤T≤43℃
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ7.94	Φ7.94
	Rows-Fin Gap(mm)		2-1.4	2-1.4
	Coil length (l) x height (H) x coil width (L)		853X660X38.1	853X660X38.1
	Fan Motor Speed (rpm)		690	690
	Output of Fan Motor (W)		60	60
	Fan Motor RLA(A)		0.56	0.56
	Fan Motor Capacitor (uF)		3.5	3.5
	Air Flow Volume of Outdoor Unit		2900m^3/h	2900m^3/h
	Fan Type-Piece		Axial fan –3	Axial fan –3
	Fan Diameter (mm)		Φ520	Φ520
	Defrosting Method		/	/
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		3.8	3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2	1.2
	Sound Pressure Level dB (A) (H/M/L)		57	57
	Sound Power Level dB (A) (H/M/L)		67	67
	Dimension (W/H/D) (mm)		955 X700X396	955 X700X396
	Dimension of Package (L/W/H)(mm)		1030/460/735	1030/460/735
	Net Weight /Gross Weight (kg)		57/62	57/62
	Refrigerant Charge (kg)		R410a/1.7	R410a/1.7
Conne-ction Pipe	Length (m)		4	4
	Gas additional charge(g/m)		50	50
	Outer Diameter	Liquid Pipe (mm)	Φ6	Φ6
		Gas Pipe (mm)	Φ16	Φ16
	Max Distance	Height (m)	10	10
		Length (m)	25	25

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

Model		GWH24MD-K3NNA3A		GWH24MD-K3NNA3B、GWH24MD-K3NNA2B、GWH24MD-K3NNA4B、GWH24MD-K3NNA4B（Suply power by outdoor unit）	
Function		COOLING	HEATING	COOLING	HEATING
Rated Voltage		220-240V~		220-240V~	
Rated Frequency		50 Hz		50 Hz	
Total Capacity (W/Btu/h)		6600	7250	6200	6750
Power Input (W)		2056	2126	2100	2290
Rated Input (W)		2500	2650	2800	2800
Rated Current (A)		12.6	13.4	14.2	14.2
Air Flow Volume (m^3/h) (H/M/L)		900		900	
Dehumidifying Volume (l/h)		2.4		2.4	
EER / C.O.P (W/W)		3.21/3.41		2.95/2.95	
Energy Class		A/B		/	
Indoor unit	Model of Indoor Unit	GWH24MD-K3NNA3A/I		GWH24MD-K3NNA3B/I、GWH24MD-K3NNA2B/I、GWH24MD-K3NNA4B/I、GWH24MD-K3NNA4B/I（Suply power by outdoor unit）	
	Fan Motor Speed (r/min) (H/M/L)	Cool：1250/1100/950/800； Heat：1300/1150/1000/850		Cool：1250/1100/950/800； Heat：1300/1150/1000/850	
	Output of Fan Motor (w)	35		35	
	Input of Heater (w)	/		/	
	Fan Motor Capacitor (uF)	2.5		2.5	
	Fan Motor RLA(A)	0.255		0.255	
	Fan Type-Piece	Cross flow fan – 1		Cross flow fan – 1	
	Diameter-Length (mm)	φ98 X 765		φ98 X 765	
	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) x height (H) x coil width (L)	765X342.9X25.4		765X342.9X25.4	
	Swing Motor Model	MP35XX		MP35XX	
	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)	46/43/40/35		46/43/40/35	
	Sound Power Level dB (A) (H/M/L)	56/53/50/45		56/53/50/45	
	Dimension (W/H/D) (mm)	1007x315x219		1007x315x219	
	Dimension of Package (L/W/H) (mm)	1073x395x313		1073x395x313	
	Net Weight /Gross Weight (kg)	15.5/20.5		15.5/20.5	

Outdoor unit	Model of Outdoor Unit		GWH24MD-K3NNA3A/O	GWH24MD-K3NNA3B/O、GWH24MD-K3NNA3B/O(Suply power by outdoor unit)
	Compressor Manufacturer/trademark		Landa	panasonic wanbao
	Compressor Model		QXA-F265N030	5VS245EAA21
	Compressor Type		rotary	rotary
	L.R.A. (A)		49.5	45.5
	Compressor RLA(A)		10.6	9.5
	Compressor Power Input(W)		2220	2075
	Overload Protector		built in	built in
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (℃)		-7℃≤T≤43℃	-7℃≤T≤43℃
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ7.94	Φ7.94
	Rows-Fin Gap(mm)		2-1.4	2-1.4
	Coil length (l) x height (H) x coil width (L)		853X660X38.1	984×748×38.1
	Fan Motor Speed (rpm)		690	780
	Output of Fan Motor (W)		60	90
	Fan Motor RLA(A)		0.56	1.47
	Fan Motor Capacitor (uF)		3.5	7
	Air Flow Volume of Outdoor Unit		2900m^3/h	-
	Fan Type-Piece		Axial fan –3	Axial fan –1
	Fan Diameter (mm)		Φ520	Φ552
	Defrosting Method		/	Auto defrost
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		3.8	3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2	1.2
	Sound Pressure Level dB (A) (H/M/L)		57	56
	Sound Power Level dB (A) (H/M/L)		67	66
	Dimension (W/H/D) (mm)		955 X700X396	980X790X427
	Dimension of Package (L/W/H)(mm)		1030/460/735	1065X485X840
	Net Weight /Gross Weight (kg)		57/62	64/69
	Refrigerant Charge (kg)		R410a/1.7	R410A/2.1
Conne-ction Pipe	Length (m)		4	7.5
	Gas additional charge(g/m)		50	50
	Outer Diameter	Liquid Pipe (mm)	Φ6	Φ6(1/4")
		Gas Pipe (mm)	Φ16	Φ16(5/8")
	Max Distance	Height (m)	10	10
		Length (m)	25	25

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

Model		GWH18MC-K3NNB3A	
Function		COOLING	HEATING
Rated Voltage		220-240V~	
Rated Frequency		50Hz	
Total Capacity (W)		5300	5700
Power Input (W)		1640	1670
Rated Input (W)		2500	2550
Rated Current (A)		10.9	11.1
Air Flow Volume (m^3/h) (S/H/M/L)		850/780/650/550	
Dehumidifying Volume (l/h)		3	
EER / C.O.P (W/W)		3.21	
Energy Class		A	
Indoor unit	Model of Indoor Unit	GWH18MC-K3NNB3A/I	
	Fan Motor Speed (r/min) (S/H/M/L)	1350/1200/1050/900	
	Output of Fan Motor (w)	20	
	Input of Heater (w)	/	
	Fan Motor Capacitor (uF)	1	
	Fan Motor RLA(A)	0.25	
	Fan Type-Piece	Cross flow fan – 1	
	Diameter-Length (mm)	φ96 X 797	
	Evaporator	Aluminum fin-copper tube	
	Pipe Diameter (mm)	Φ7	
	Row-Fin Gap(mm)	2-1.4	
	Coil length (l) x height (H) x coil width (L)	715X304.8X25.4	
	Swing Motor Model	MP28VB	
	Output of Swing Motor (W)	2.5	
	Fuse (A)	PCB 3.15A Transformer 0.2A	
	Sound Pressure Level dB (A) (H/M/L)	48/45/42/38	
	Sound Power Level dB (A) (H/M/L)	58/55/52/48	
	Dimension (W/H/D) (mm)	940X298X200	
	Dimension of Package (L/W/H) (mm)	1010X380X285	
	Net Weight /Gross Weight (kg)	13/17	

Outdoor unit	Model of Outdoor Unit		GWH18MC-K3NNA3A/O
	Compressor Manufacturer/trademark		Shanghai Hitachi Electrical Appliances Co,Ltd./Highly
	Compressor Model		ASH210SV-C8LU
	Compressor Type		rotary compressor
	L.R.A. (A)		40
	Compressor RLA(A)		7.5
	Compressor Power Input(W)		1725
	Overload Protector		Built in
	Throttling Method		Capillary
	Starting Method		Capacitor
	Working Temp Range (℃)		-7℃≤T≤43℃
	Condenser		Aluminum fin-copper tube
	Pipe Diameter (mm)		7
	Rows-Fin Gap(mm)		2-1.4
	Coil length (l) x height (H) x coil width (L)		806×660×25.4
	Fan Motor Speed (rpm)		860
	Output of Fan Motor (W)		48
	Fan Motor RLA(A)		0.62
	Fan Motor Capacitor (uF)		3.5
	Air Flow Volume of Outdoor Unit		2790m3/h
	Fan Type-Piece		Axial fan –1
	Fan Diameter (mm)		Φ473
	Defrosting Method		Auto defrost
	Climate Type		T1
	Isolation		I
	Moisture Protection		IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2
	Sound Pressure Level dB (A) (H/M/L)		56/54/52
	Sound Power Level dB (A) (H/M/L)		66/64/62
	Dimension (W/H/D) (mm)		913X378X680
	Dimension of Package (L/W/H)(mm)		994X428X725
	Net Weight /Gross Weight (kg)		46/50
	Refrigerant Charge (kg)		R410/1.5
Conne-ction Pipe	Length (m)		4
	Gas additional charge(g/m)		50
	Outer Diameter	Liquid Pipe (mm)	Φ6
		Gas Pipe (mm)	Φ12
	Max Distance	Height (m)	10
		Length (m)	25

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

Model		GWH18MC-K3NNA3B	
Function		COOLING	HEATING
Rated Voltage		220-240V~	
Rated Frequency		50Hz	
Total Capacity (W)		5275	5570
Power Input (W)		1760	1850
Rated Input (W)		2400	2700
Rated Current (A)		9.93	11.81
Air Flow Volume (m^3/h) (S/H/M/L)		850/780/650/550	
Dehumidifying Volume (l/h)		3	
EER / C.O.P (W/W)		2.93/2.93	
Energy Class		A	
Indoor unit	Model of Indoor Unit	GWH18MC-K3NNA3B/I	
	Fan Motor Speed (r/min) (S/H/M/L)	1350/1200/1050/900	
	Output of Fan Motor (w)	20	
	Input of Heater (w)	/	
	Fan Motor Capacitor (uF)	1.5	
	Fan Motor RLA(A)	0.31	
	Fan Type-Piece	Cross flow fan – 1	
	Diameter-Length (mm)	φ96 X 797	
	Evaporator	Aluminum fin-copper tube	
	Pipe Diameter (mm)	Φ7	
	Row-Fin Gap(mm)	2-1.4	
	Coil length (l) x height (H) x coil width (L)	715X304.8X25.4	
	Swing Motor Model	MP28VB	
	Output of Swing Motor (W)	2	
	Fuse (A)	PCB 3.15A Transformer 0.2A	
	Sound Pressure Level dB (A) (H/M/L)	48/45/42/38	
	Sound Power Level dB (A) (H/M/L)	58/55/52/48	
	Dimension (W/H/D) (mm)	940X200X298	
	Dimension of Package (L/W/H) (mm)	1010X285X380	
	Net Weight /Gross Weight (kg)	13/17	

Outdoor unit	Model of Outdoor Unit		GWH18MC-K3NNA3B/O
	Compressor Manufacturer/trademark		Shanghai Hitachi Electrical Appliances Co,Ltd./Highly
	Compressor Model		ASH210SV-C8LU
	Compressor Type		rotary compressor
	L.R.A. (A)		40
	Compressor RLA(A)		7.5
	Compressor Power Input(W)		1725
	Overload Protector		内置
	Throttling Method		Capillary
	Starting Method		Capacitor
	Working Temp Range (℃)		-7℃≤T≤43℃
	Condenser		Aluminum fin-copper tube
	Pipe Diameter (mm)		7
	Rows-Fin Gap(mm)		2-1.4
	Coil length (l) x height (H) x coil width (L)		806×660×25.4
	Fan Motor Speed (rpm)		780
	Output of Fan Motor (W)		68
	Fan Motor RLA(A)		0.75
	Fan Motor Capacitor (uF)		3
	Air Flow Volume of Outdoor Unit		2790m3/h
	Fan Type-Piece		Axial fan –1
	Fan Diameter (mm)		Φ473
	Defrosting Method		Auto defrost
	Climate Type		T1
	Isolation		I
	Moisture Protection		IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2
	Sound Pressure Level dB (A) (H/M/L)		56/54/52
	Sound Power Level dB (A) (H/M/L)		66/64/62
	Dimension (W/H/D) (mm)		913X378X680
	Dimension of Package (L/W/H)(mm)		994X428X725
	Net Weight /Gross Weight (kg)		46/50
	Refrigerant Charge (kg)		R410/1.55
Conne-ction Pipe	Length (m)		7.5
	Gas additional charge(g/m)		50
	Outer Diameter	Liquid Pipe (mm)	Φ6
		Gas Pipe (mm)	Φ12
	Max Distance	Height (m)	10
		Length (m)	25

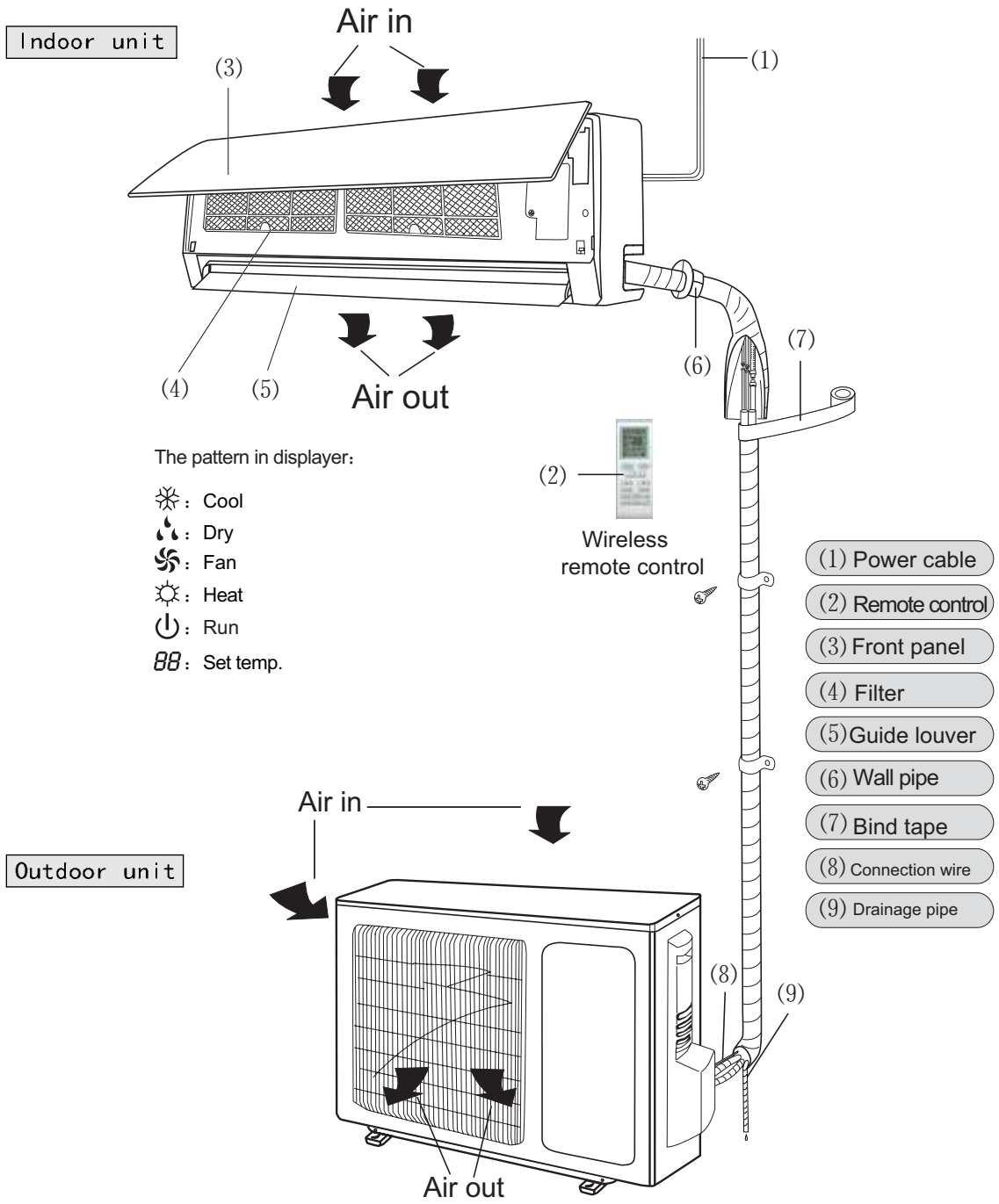
The above data is subject to change without notice. Please refer to the nameplate of the unit.

Model		GWH12MB-K3NNA2C	
Function		COOLING	HEATING
Rated Voltage		220-240V~	
Rated Frequency		50Hz	
Total Capacity (W/Btu/h)		3500W(12000Btu/h)	3927W(13400Btu/h)
Power Input (W)		1095	1085
Rated Input (W)		1650	1650
Rated Current (A)		8.5	8.5
Air Flow Volume (m^3/h) (H/M/L)		(630)/530/430/330	
Dehumidifying Volume (l/h)		1.2	
EER / C.O.P (W/W)		3.21/3.61	
Energy Class		A	
Indoor unit	Model of Indoor Unit	GWH12MB-K3NNA2C/I	
	Fan Motor Speed (r/min) (H/M/L)	(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) x height (H) x 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/M/L)	(45)42/39/36	
	Sound Power Level dB (A) (H/M/L)	(51)48/44/39	
	Dimension (W/H/D) (mm)	845×275×180	
	Dimension of Package (L/W/H) (mm)	915×255×355	
	Net Weight /Gross Weight (kg)	10/13	

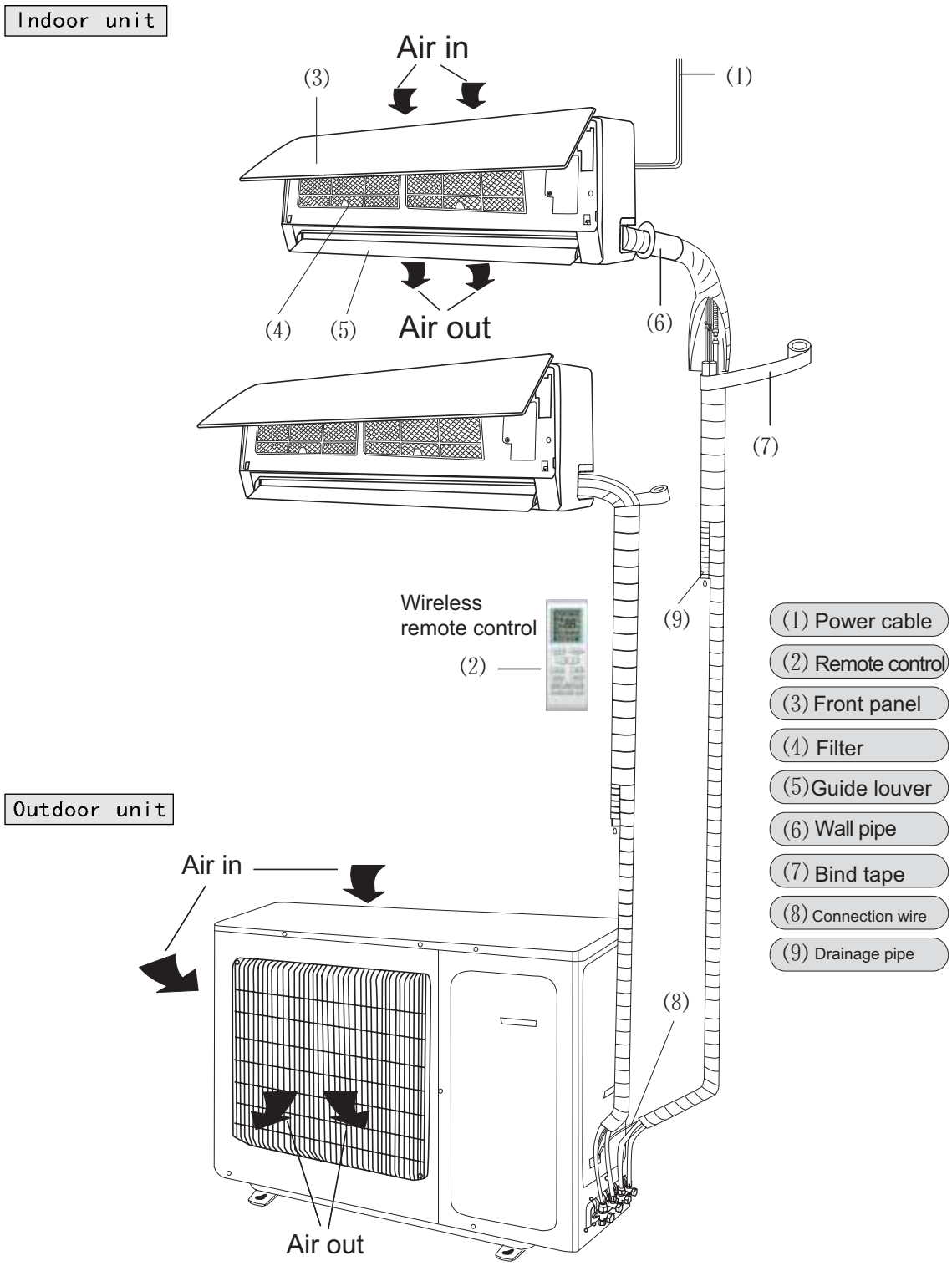
Outdoor unit	Model of Outdoor Unit		GWH12MB-K3NNA2C/O
	Compressor Manufacturer/trademark		Gree
	Compressor Model		QXA-C136B030
	Compressor Type		Rotary
	L.R.A. (A)		27
	Compressor RLA(A)		5.3
	Compressor Power Input(W)		1050
	Overload Protector		/
	Throttling Method		Capillary
	Starting Method		Capacitor
	Working Temp Range (℃)		-7～43
	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)		715×508×44
	Fan Motor Speed (rpm)		790
	Output of Fan Motor (W)		35
	Fan Motor RLA(A)		0.35
	Fan Motor Capacitor (uF)		2.5
	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)		3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		1.2
	Sound Pressure Level dB (A) (H/M/L)		55
	Sound Power Level dB (A) (H/M/L)		65
	Dimension (W/H/D) (mm)		848×540×320
	Dimension of Package (L/W/H)(mm)		878×360×580
	Net Weight /Gross Weight (kg)		37/41
	Refrigerant Charge (kg)		R410A/1.25
Conne-ction 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)	10
		Length (m)	20

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

3 Part name



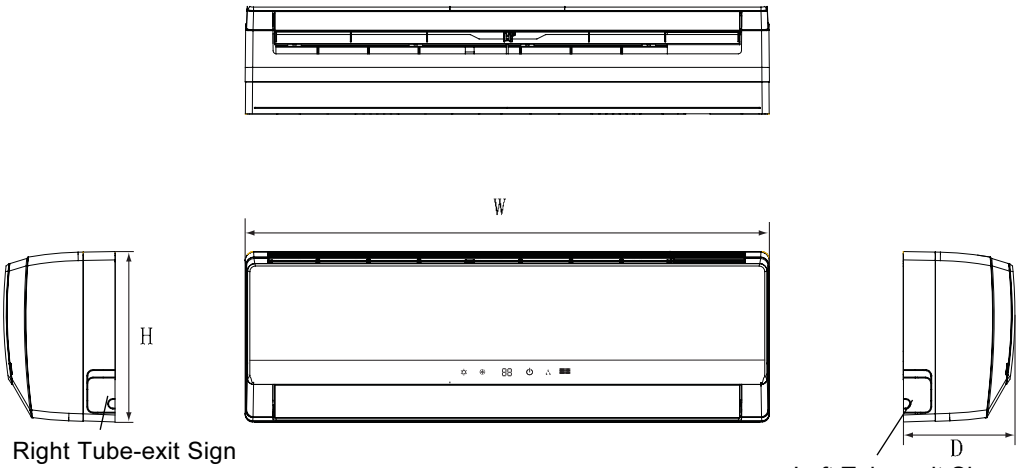
The products in this manual may be different with the real one, according to different models, some models have displayer and some models without displayer, the position and shape of the displayer please refer to the real one.


Indoor unit
Air in
(3)
(1)
(4)
(5)
Air out
(6)
(7)
Wireless
remote control
(2)
(9)
Outdoor unit
Air in
(8)
Air out
(1) Power cable
(2) Remote control
(3) Front panel
(4) Filter
(5) Guide louver
(6) Wall pipe
(7) Bind tape
(8) Connection wire
(9) Drainage pipe

4 Outline and installation dimension

4.1 Outline and installation dimensions of indoor unit

Take panel A for example:

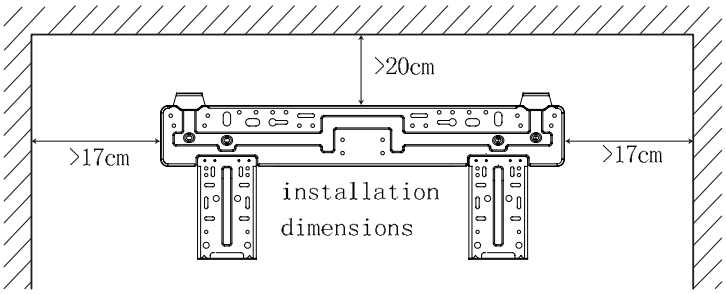


Right Tube-exit Sign

Left Tube-exit Sign

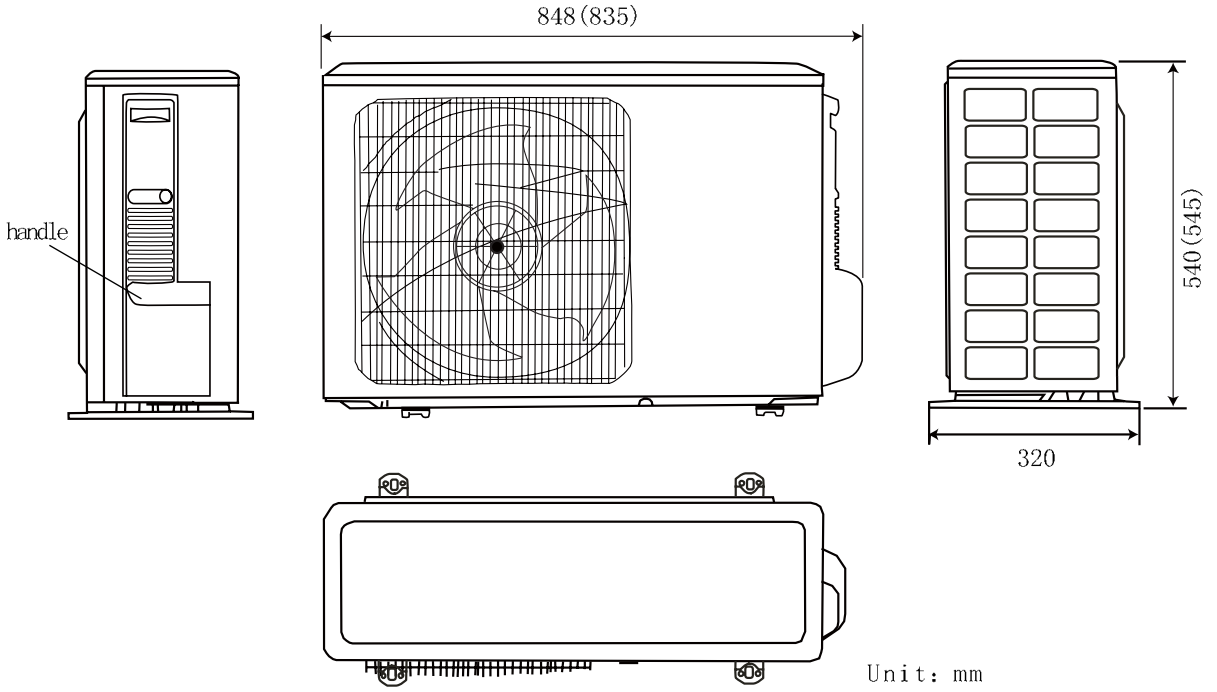
	W(mm)	H(mm)	D(mm)
9K	790	265	170
12K、GWC18MC-K3NNA3C	845	275	180
Other 18K	940	298	200
24K	1007	315	219
GWH18MC-K3NNA3C	845	270	180

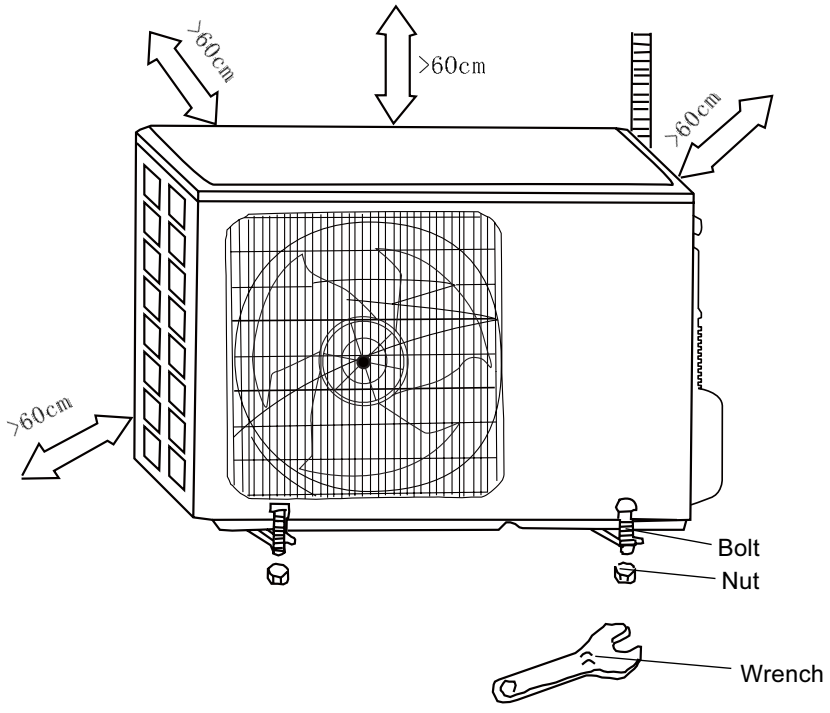
Ceiling



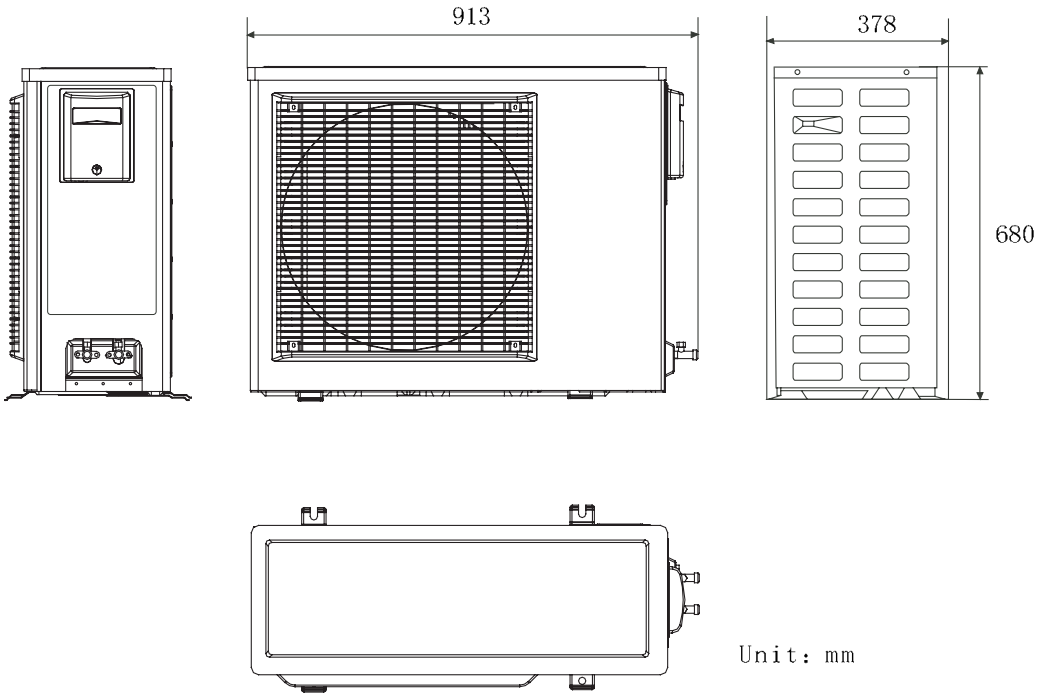
4.2 Outline and installation dimensions of outdoor unit

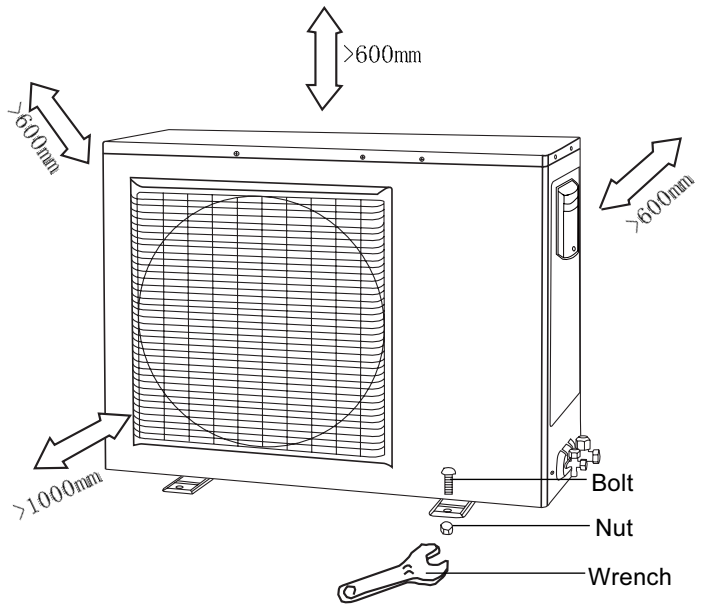
It's applicable to the outdoor units for 9K、12K、GWC18MC-K3NNA3C and GWH18MC-K3NNA3C:



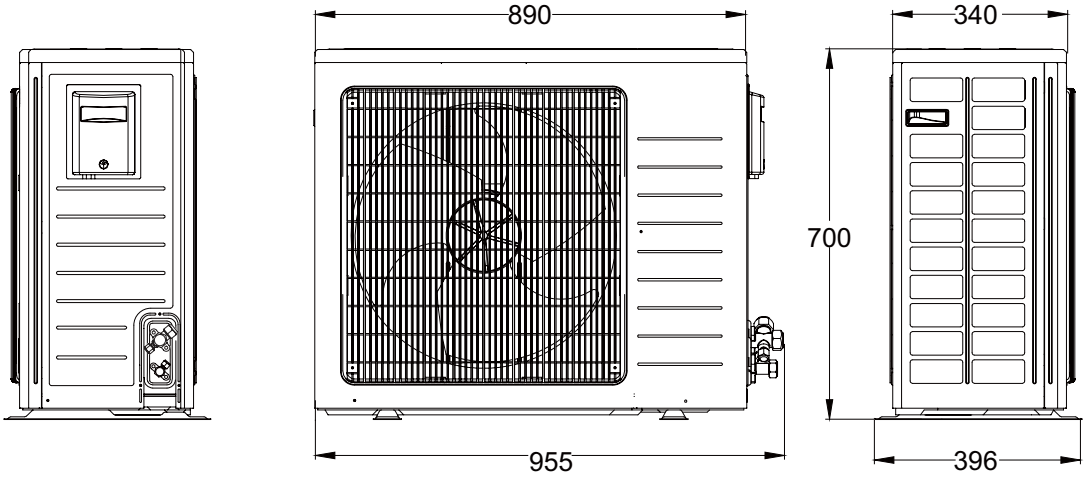


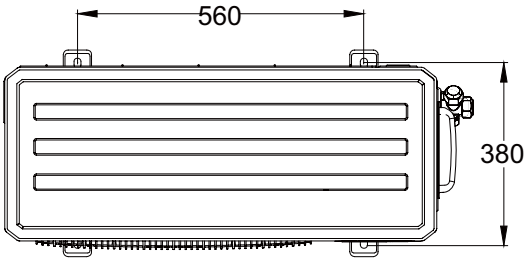
It applicable to the outdoor units for other 18K:



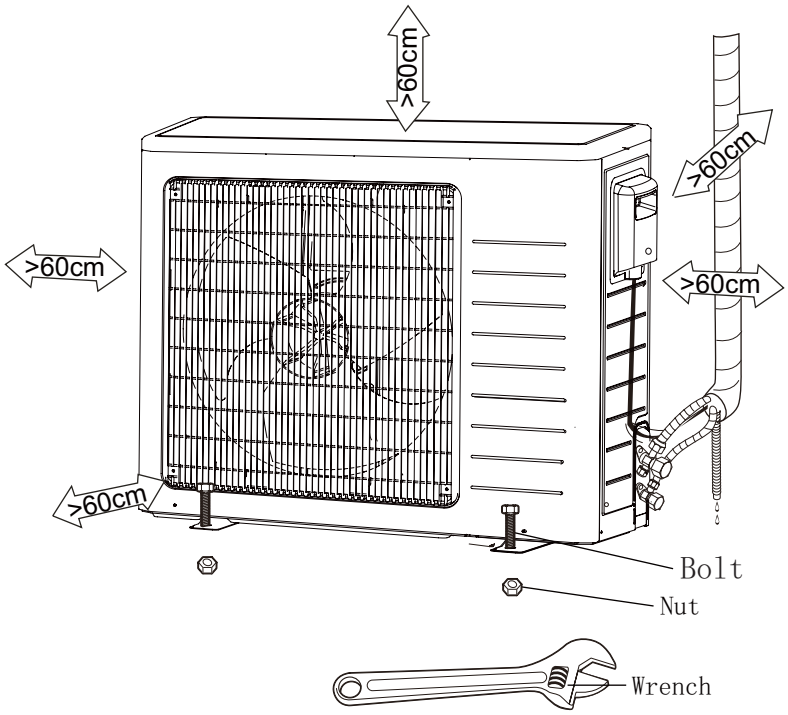


It applicable to the outdoor units forGWH24MD-K3NNA2A GWH24MD-K3NNA3A GWH24MD-K3NNA4A GWC24MD-K3NNA2A GWC24MD-K3NNA3A GWC24MD-K3NNA4A GWC24MD-K3NNA8A:

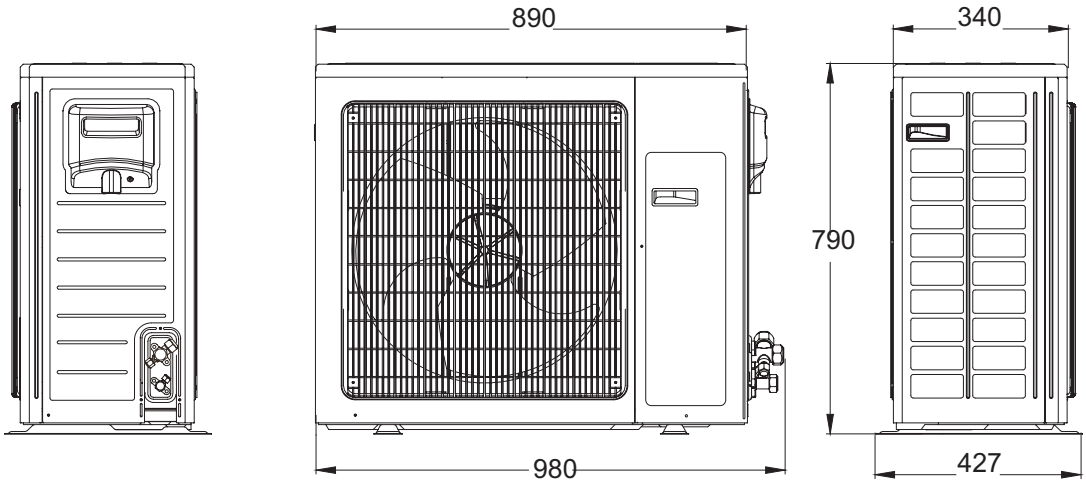


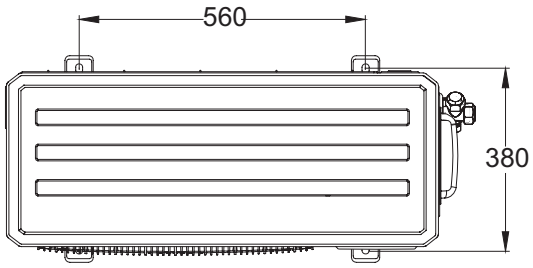


Unit: mm

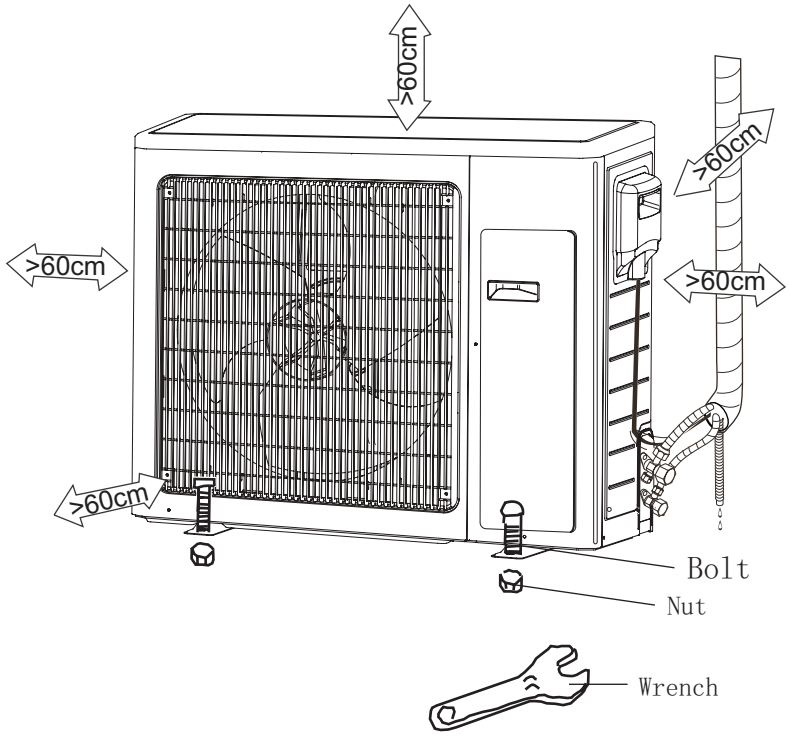


It applicable to the outdoor units for GWH24MD-K3NNA3B、GWH24MD-K3NNA2B、GWH24MD-K3NNA4B、GWH24MD-K3NNA4B（Suply power by outdoor unit):

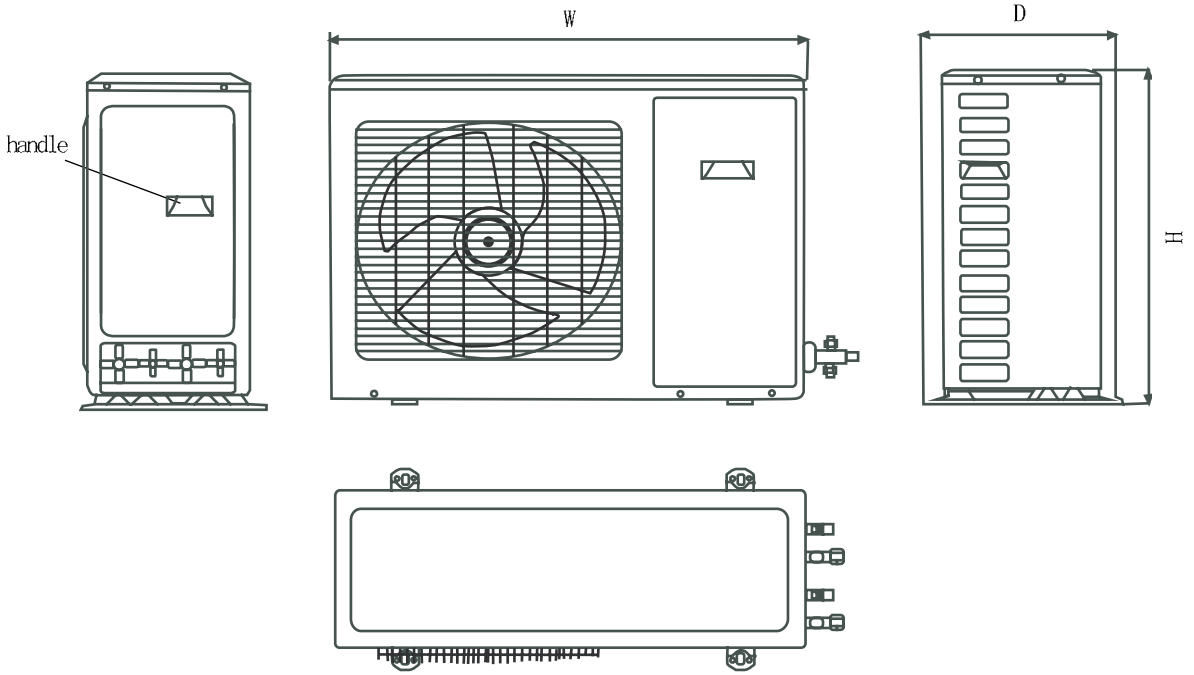




Unit: mm

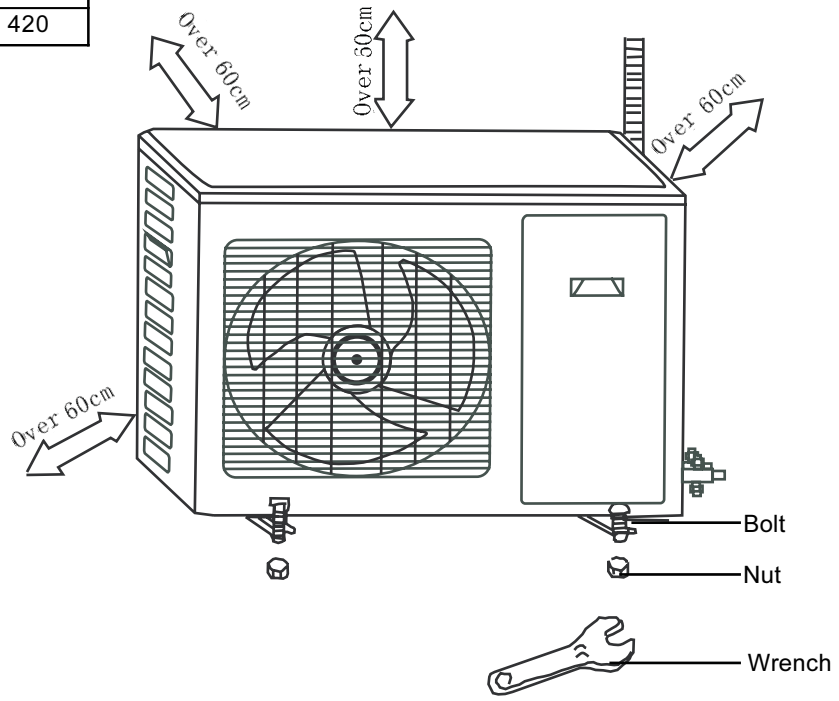


It’s applicable to 1-to-2 outdoor units:



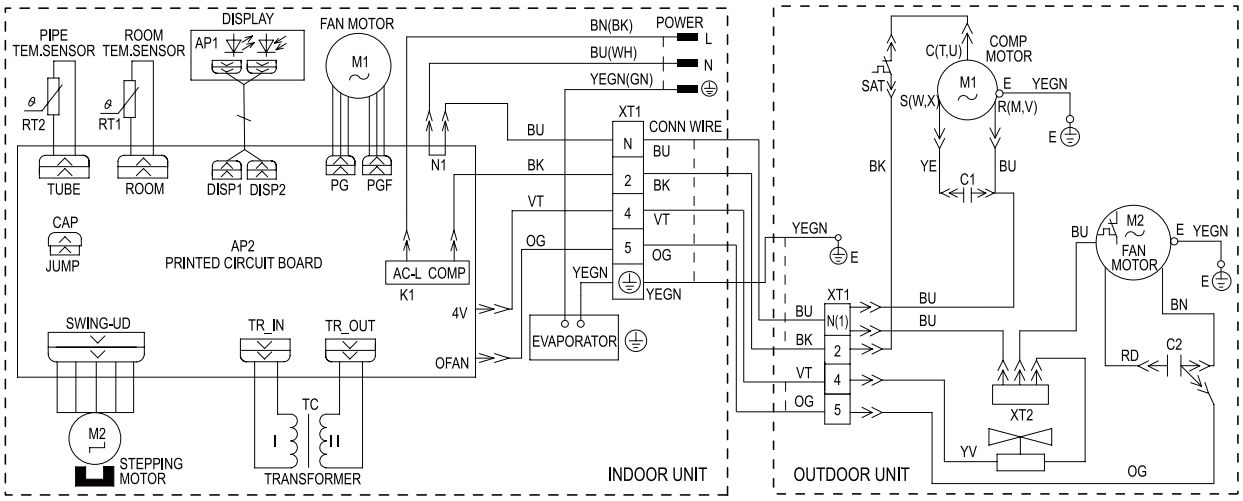
Unit: mm

	W(mm)	H(mm)	D(mm)
18K	1018	700	412
21K/24K	950	700	420

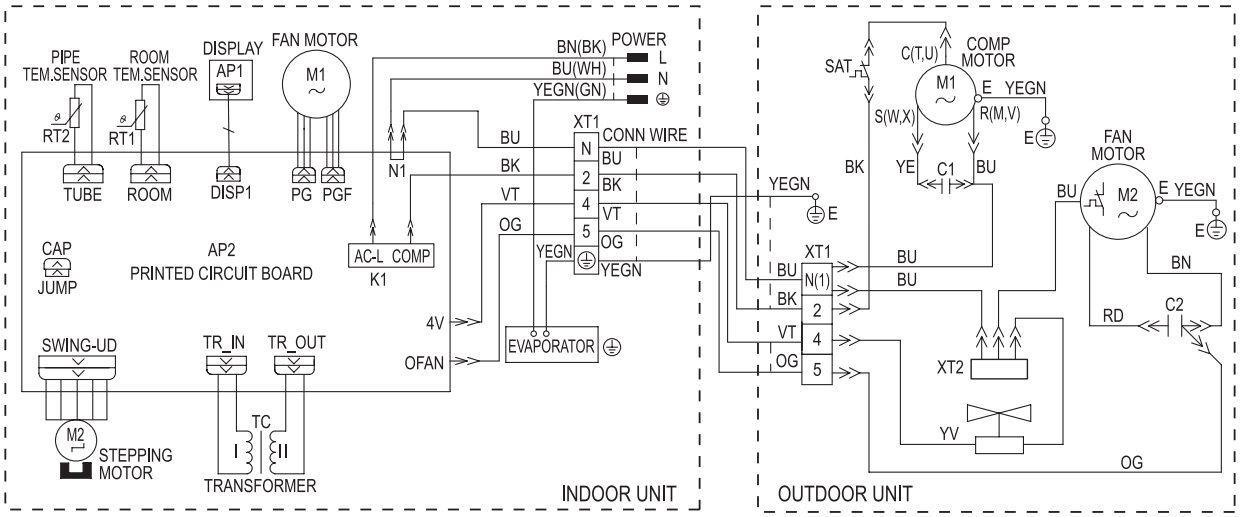


5 Electrical circuit diagram

GWH09MA-K3NNA2A GWH09MA-K3NNA3A GWH09MA-K3NNA4A GWH12MB-K3NNA2A GWH12MB-K3NNA3A GWH12MB-K3NNA4A GWH09MB-K3NNA3B

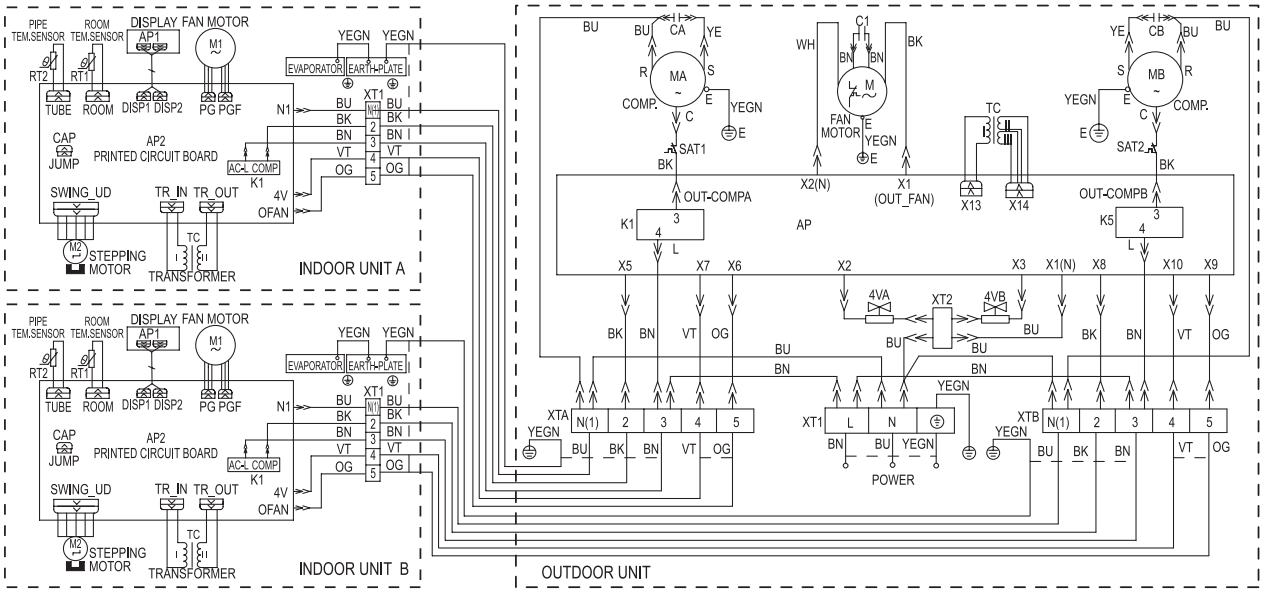


GWH09MA-K3NNA1A GWH12MB-K3NNA1A

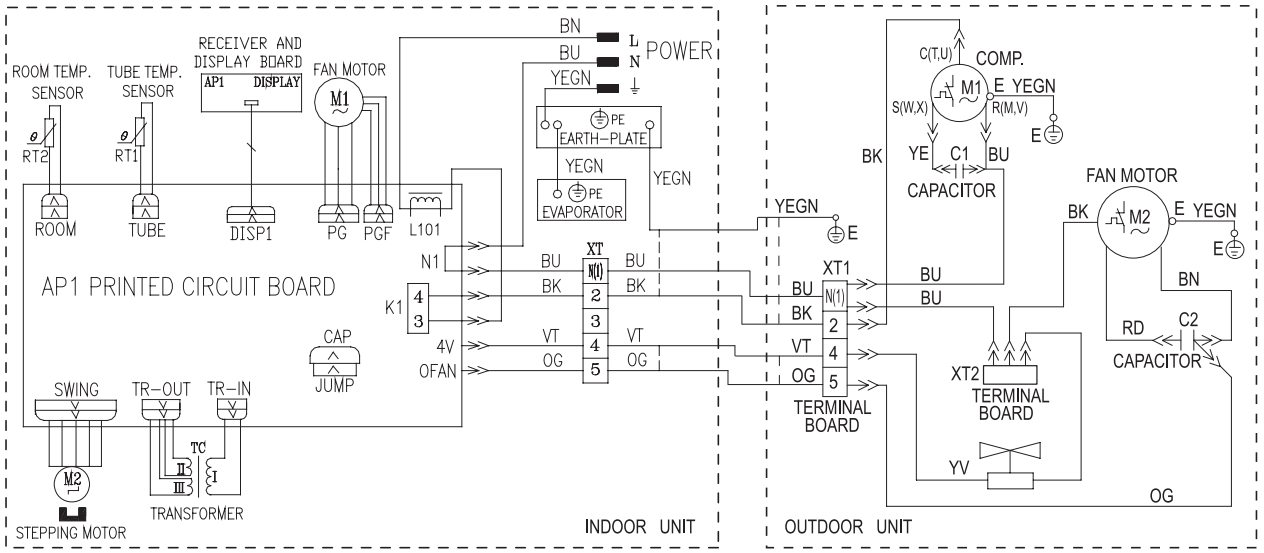


These circuit diagrams are subject to change without notice, please refer to the one supplied with the unit.

GWH18(09X2)MA-K3NNA1A GWH18(09X2)MA-K3NNA2A GWH18(09X2)MA-K3NNA3A GWH18(09X2)MA-K3NNA4A

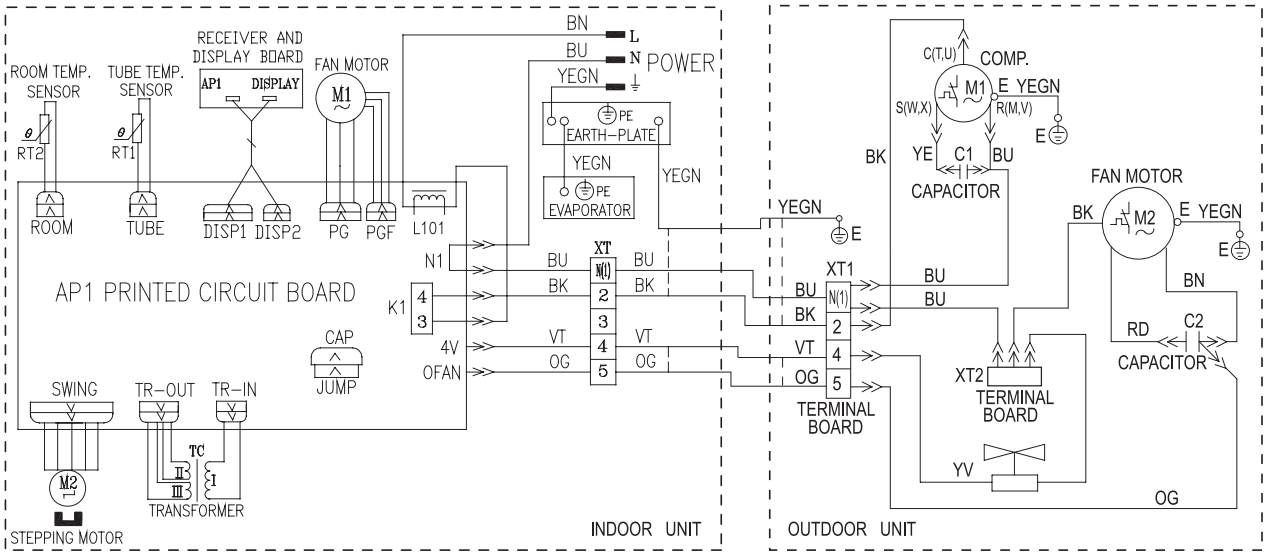


GWH18MC-K3NNA1A

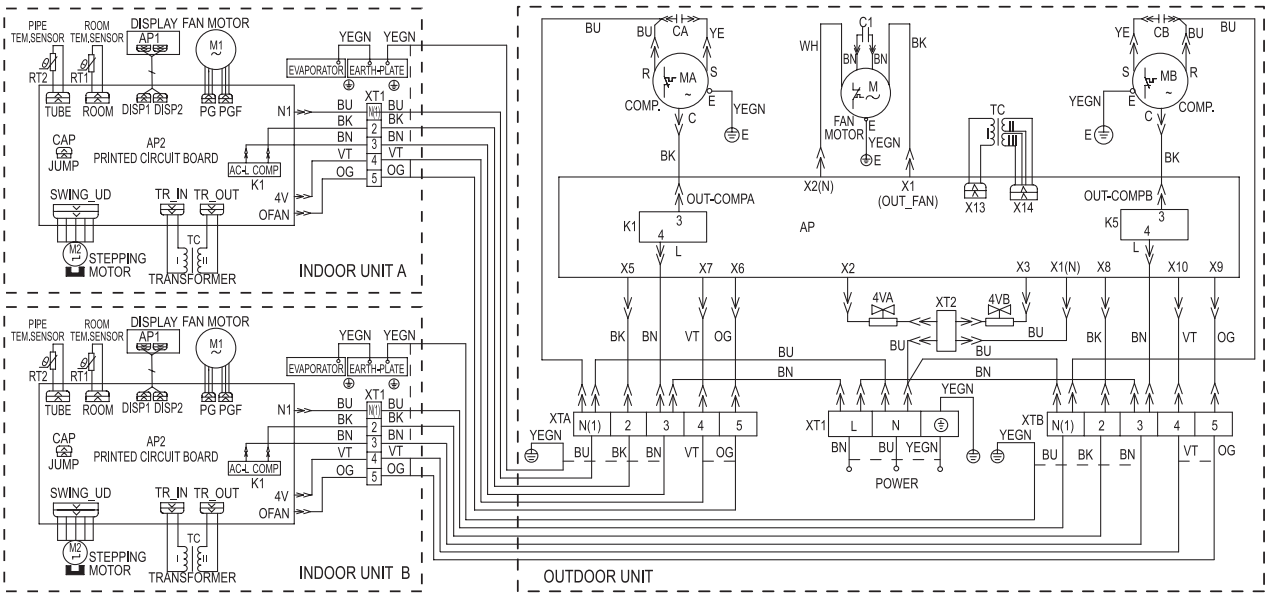


These circuit diagrams are subject to change without notice, please refer to the one supplied with the unit.

GWH18MC-K3NNA2A、GWH18MC-K3NNA3A、GWH18MC-K3NNA4A

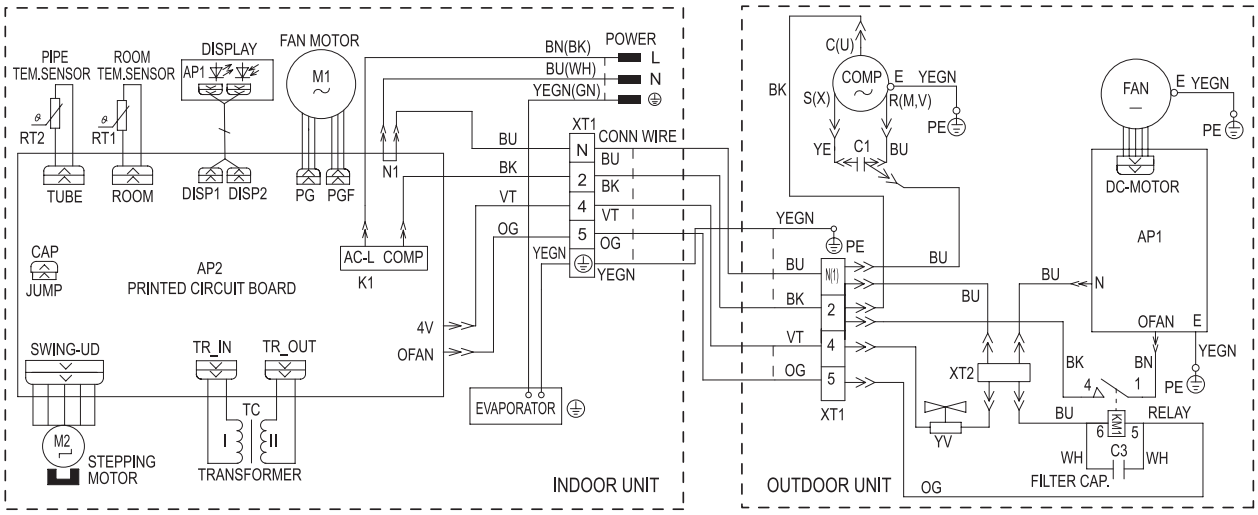


GWH21(09+12)MB-K3NNA4A　GWH24(12X2)MB-K3NNA4A

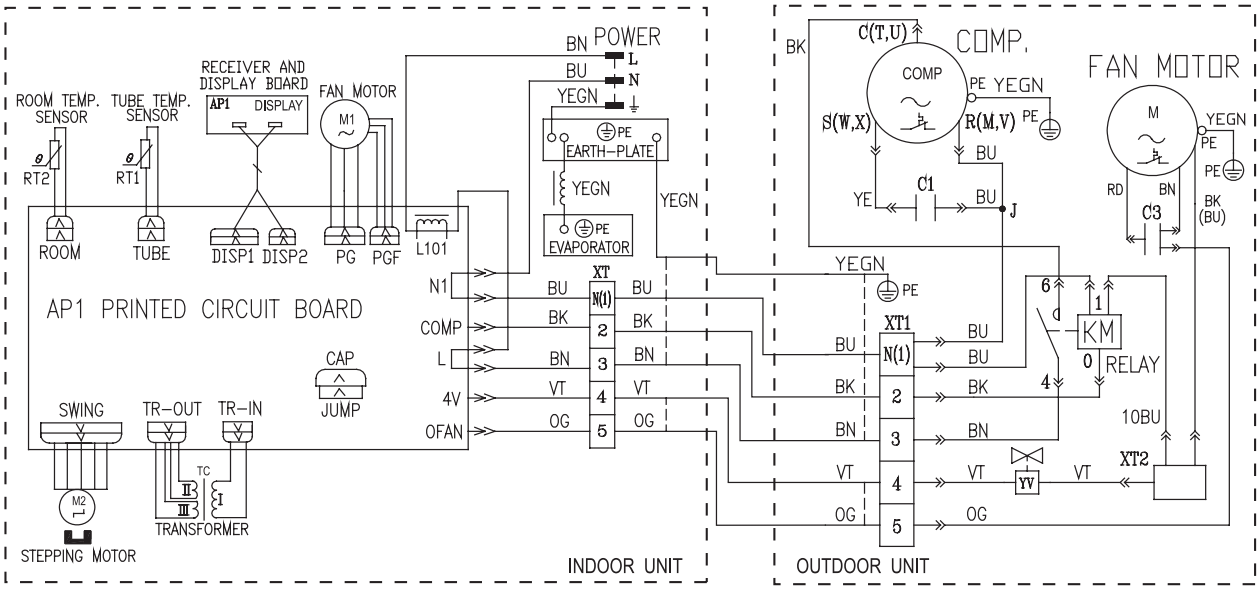


These circuit diagrams are subject to change without notice, please refer to the one supplied with the unit.

GWH12MB-K3NNA3B

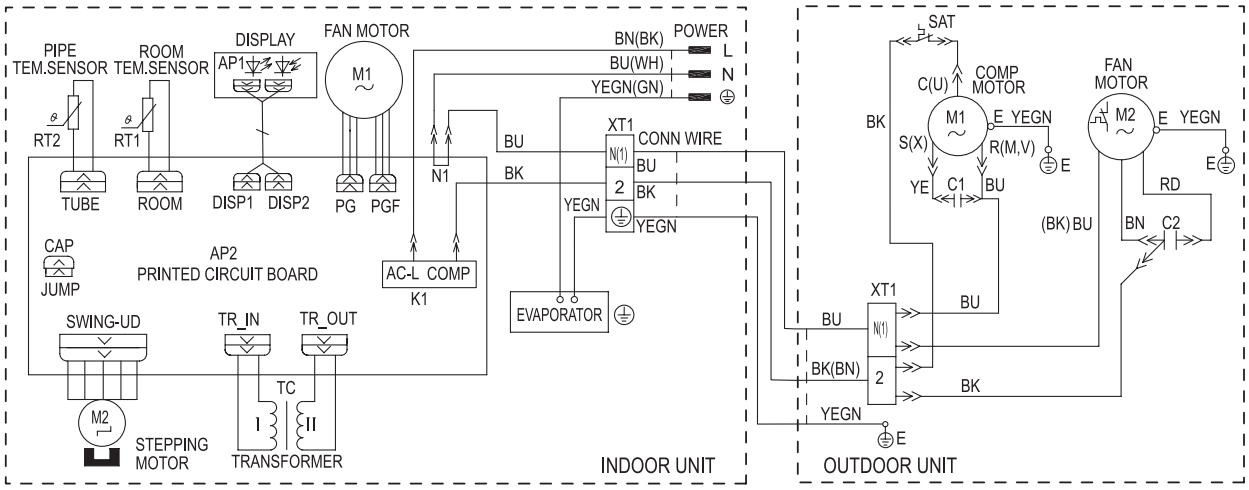


GWH24MD-K3NNA4A GWH24MD-K3NNA2A GWH24MD-K3NNA3A GWH24MD-K3NNA3B GWH24MD-K3NNA2B GWH24MD-K3NNA4B

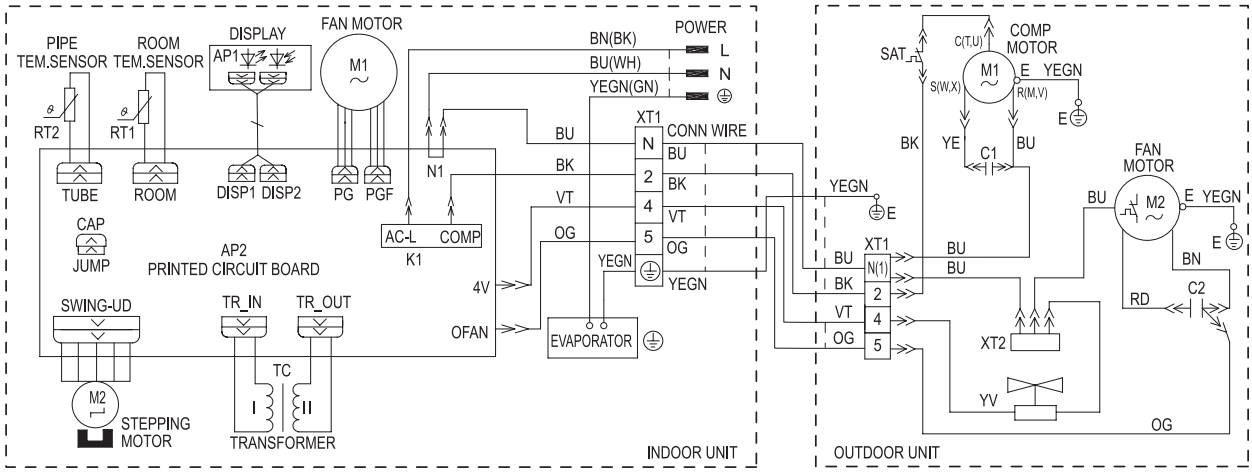


These circuit diagrams are subject to change without notice, please refer to the one supplied with the unit.

GWC09MA-K3NNA3C GWC12MB-K3NNA3C GWC09MA-K3NNA2A GWC12MB-K3NNA2A

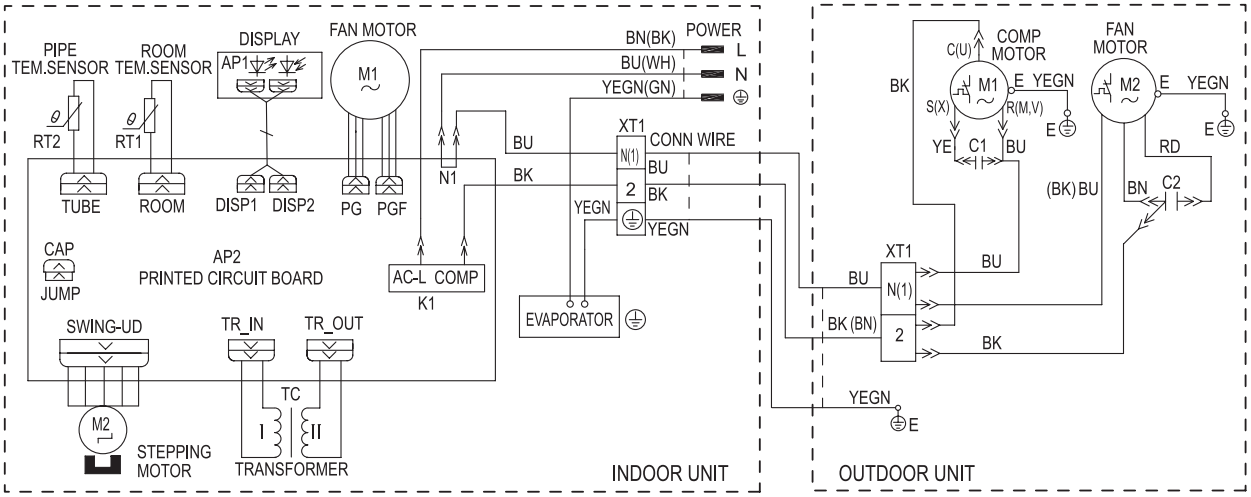


GWH09MA-K3NNA3C GWH12MB-K3NNA3C

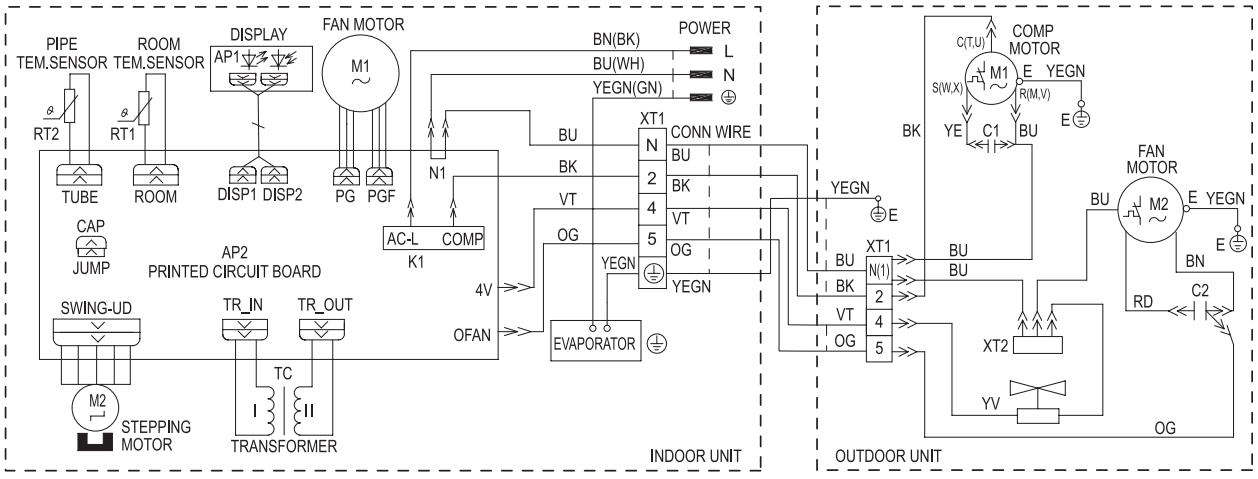


These circuit diagrams are subject to change without notice, please refer to the one supplied with the unit.

GWC18MC-K3NNA3C

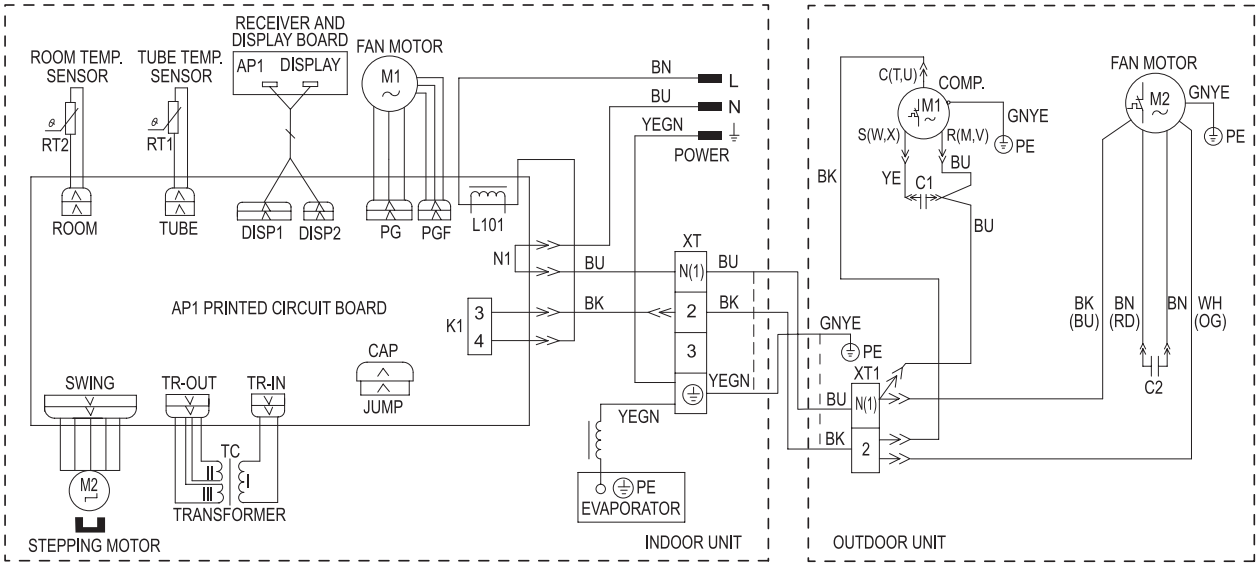


GWH18MC-K3NNA3C GWH12MB-K3NNA2C

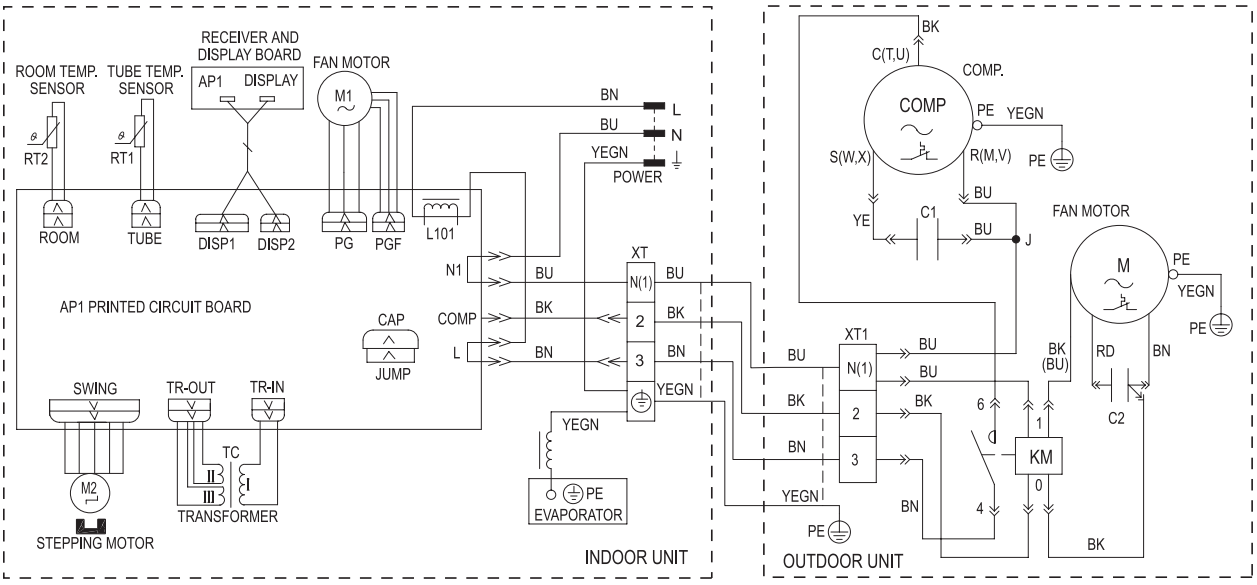


These circuit diagrams are subject to change without notice, please refer to the one supplied with the unit.

GWC18MC-K3NNA2A

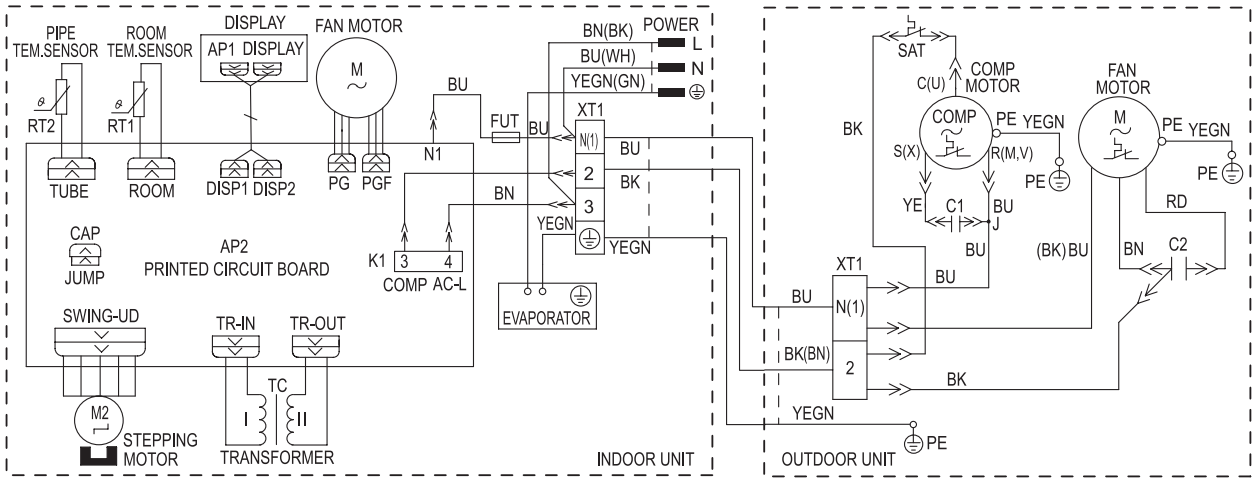


GWC24MD-K3NNA2A GWC24MD-K3NNA3A GWC24MD-K3NNA4A GWC24MD-K3NNA8A

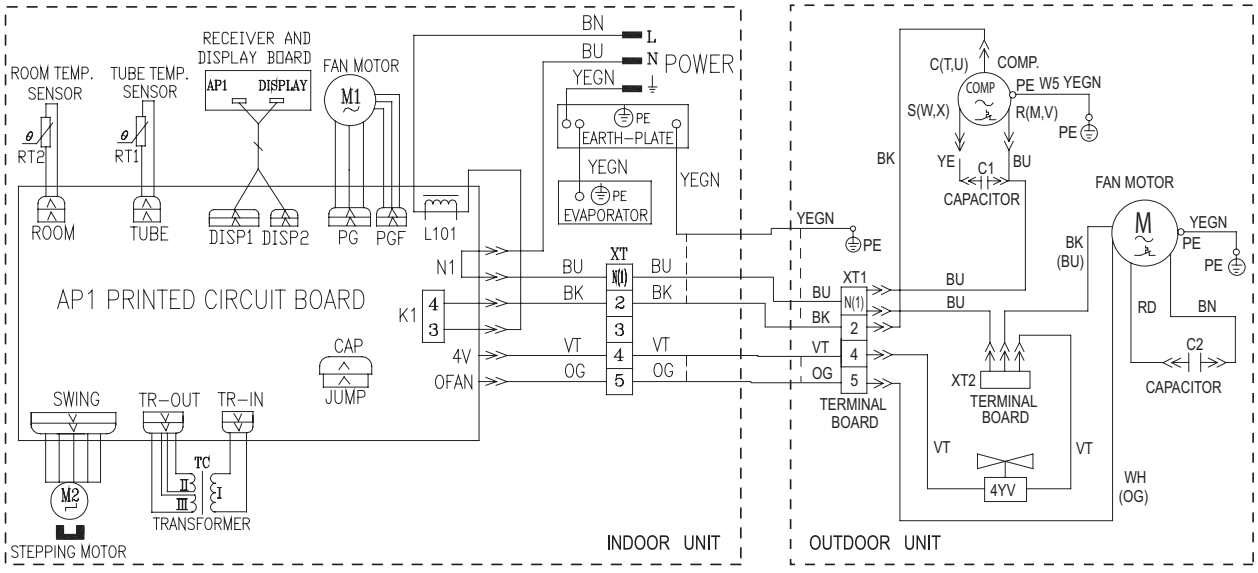


These circuit diagrams are subject to change without notice, please refer to the one supplied with the unit.

GWC09MA-K3NNA5A(SHARP)

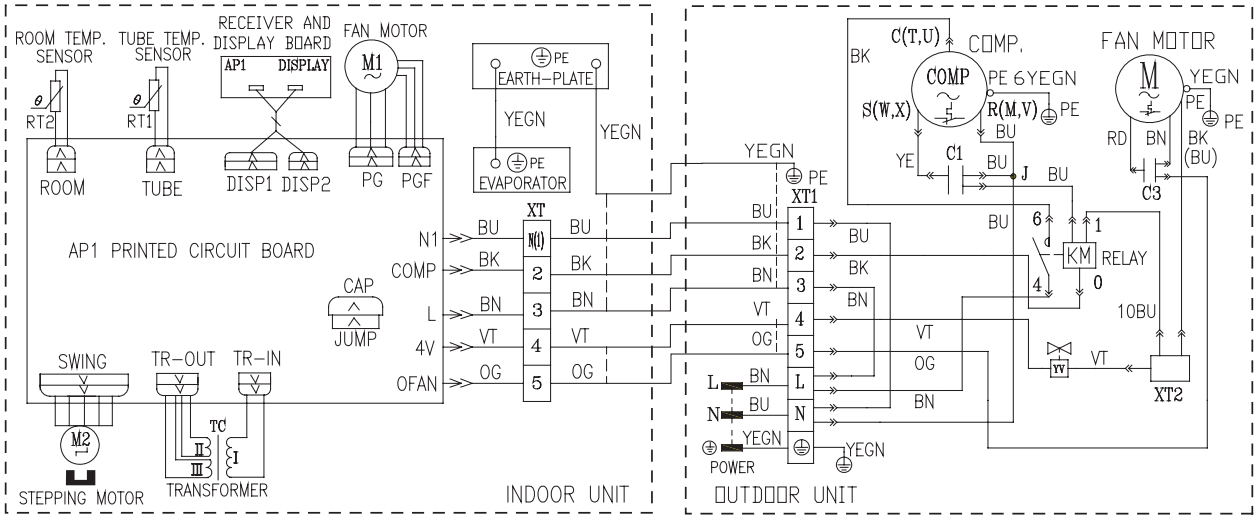


GWH18MC-K3NNB3A GWH18MC-K3NNA3B



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

GWH24MD-K3NNA4B(Suply power by outdoor unit)



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

6 PCB function manual and operation method

6.1 Manual of functions of controller

1 Temperature Parameter

room preset temperature(Tpreset)
room ambient temperature(Tamb.)

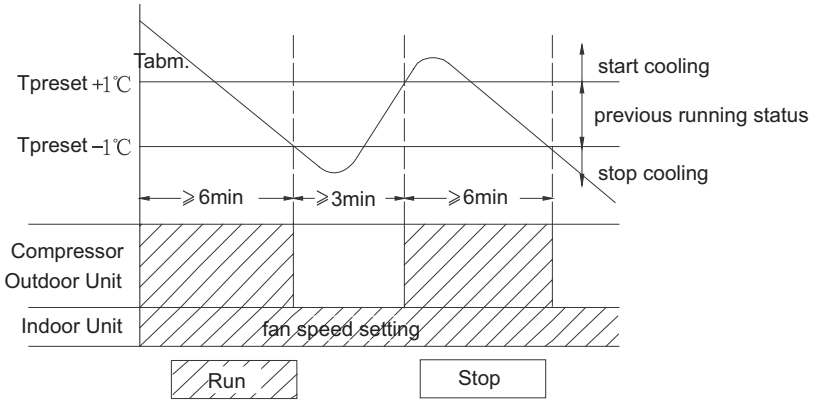
2 System Basic Functions

Once energzied, the two startup interval should no less than 3min at any circumstances. For the first energization, if the unit with memory function is OFF before power failure, the compressor can be restarted without 3mindelayed. But if the unit is ON before power failure, the compressor should be restarted with 3min delayed. Once started, the compressor won't be stopped within 6min with the change of room temp.

（1）Cooling Mode

①Working Conditions and Process of Cooling

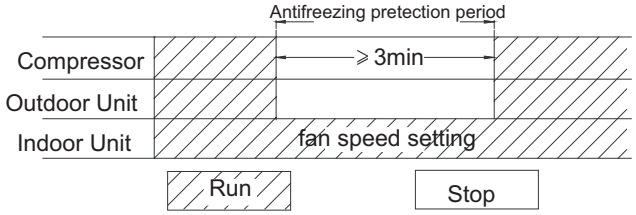
When Tabm.≥Tpreset +1℃, the unit will run in cooling mode. In this case , the compressor and the outdoor fan is running and the indoor fan is running at setting speed.
When Tabm.≤Tpreset -1℃, the compressor and the outdoor fan will stop while the indoor fan will run at setting speed.
WhenTpreset-1℃<Tabm.<Tpreset+1℃, the unit will keep its previos running status.
In this mode, the four-way valve is de-energizing, and the temperature setting range is 16~ 30℃. The running and cooling marks and the setting temperature are displayed on the displayer.



②Protection

Antifreezing Protection

If it's detected that the system is in antifreezing protection, the compressor and the outdoor fan will stop running,and the indoor fan will run at setting speed. If the antifreezing protection is released and the compressor has been stopped for 3min, the unit will resume its previous running status.



③ Overcurrent Protection

If it is detected that the system amperage exceeds 22A in 3s successively, the unit will enter into the status that only the fan is running. After 3min, if the overcurrent is released, the complete unit will resume to its previous running status. if the overcurrent protection occurs for 6 times successively(if the compressor has been running over 6min successively, the protection times will be cleared), the complete unit will stop and the the main unit turns into the status that only the fan is running. In this case, the unit can be normally restarted only after turned off the unit by remote controller. the nixietube displays the error code E5 and the running LED blinks(blinks 3s and pauses 5s)

（2）Dry Mode

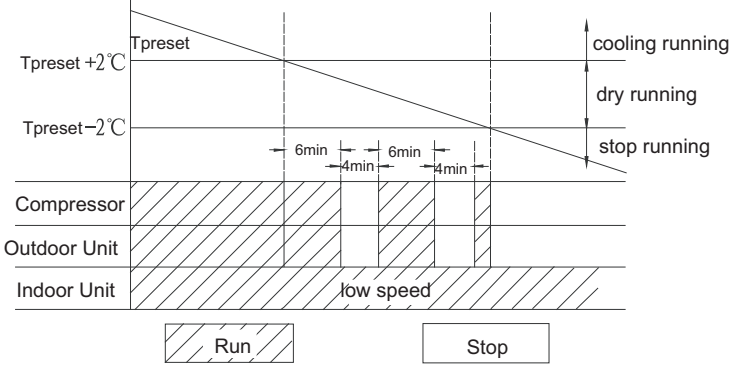
①Working Conditions and Process for Dry

When Tabm.>Tpreset+2℃,the unit will run in dry and cooling mode. In this case, the compressor and outdoor fan will run and indoor fan will run at low speed.

When Tpreset-2℃≤Tabm.≤Tpreset+2℃, the unit will run in dry mode. In this case, the indoor fan will run at low speed, and the compressor and the outdoor fan will be stopped after 6min. After 4min, the compressor and the outdoor fan will be restarted. The dry process is cycled as above.

When Tamb.<Tpreset-2℃, the compressor and the outdoor fan will stop working and the indoor fan will run at low speed.

In this mode, the four-way valve is de-energizating, and setting temperature range is 16 ~30 ℃. The running and cooling marks and setting temperature are displayed on the displayer.



② Protection

Antifreezing Protection

If antifreezing protection of the system is detected in dry and cooling mode, the compressor and outdoor unit fan will stop running and the indoor fan will run at low speed. When the antifreezing protection is released and the compressor has been stopped for 3min, the complete unit will resume to its previous running status. Upon the condition that the compressor has ran for 6min and stopped for 4min and the antifreezing protection is detected, the compressor and the outdoor fan will stop running, while the indoor fan will run at low speed. When the antifreezing protection is released and compressor has been stopped for 4min, the complete unit will resume to its previous running status

③ Other Protection

Other protection are the same as those in cooling mode

(3) Heating Mode (cooling only unit is not availabel)

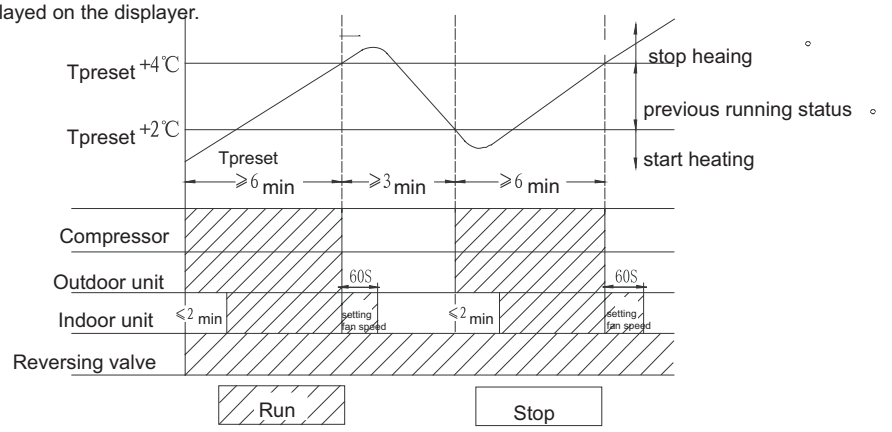
①Working Conditions and process of Heating

When Tabm ≤Tpreset+2℃, the unit will run in heating mode. In this case, the four-way valve, the compressor and the outdoor fan will run simutaneously. The indoor fan will run 2min delayed at most.

When Tabm.≥Tpreset+4 ℃, the compressor and the outdoor fan will stop while the four-way valve will keep energizing and the indoor fan will be stopped after running for 60s at setting speed.

When Tpreset+ 2 ℃<Tabm.<Tpreset+4 ℃, the unit will keep previous running status.

In this mode, the four-way valve is energized and temperature setting range is 16~30 ℃. The running and heating marks and the setting temperature will be displayed on the displayer.



② Defrosting Conditions and Process

The unit with intelligent defrosting function can defrost accroding to frosting conditions. Dual 8 displays H1.

③ Protection Function

★ High Temperature Resistant Protection

If it is detected that the evaporator tube temperature is superheating, the outdoor fan will stop running. When the tube temperature turns to the normal condition, the outdoor fan will resume running.

★ Noise Silencing Protection

The reversing valve be stopped 2min delayed if the unit is stopped by ON/OFF or at the time of mode switchover.

④ Overcurrent Protection

This protection is the same as that in cooling mode(but indoor fan will run by blowing the residual heat)

（4 ）Fan Mode

In this mode, the indoor fan will run at setting speed, while the compressor, the outdoor unit and four-way valve will stop running.
In this mode, the temperature setting range is 16~30 ℃. The running mark and the setting temperature will be displayed on displayer.

（5 ）Auto Mode

In this mode, the system will automatically select its running mode(colling,heating or fan) with the change of the ambient temperature. The running mark, actual running mode mark and the setting temperature will be displayed on the displayer. Mode swtichover will be delayed for 30s for protection.The protection functions are the same as that in other modes.

3 Other Control

（1 ）Timer Function

The mainboard contains general time and clock time at the same time. Timer functions can be selected by equipping the remote controller with diferent functions.

① General Timer:

Timer ON: Timer ON can be set under OFF status of the unit. If timer ON reaches, the controller will run at the setting mode. The time interval is 0.5hr and the temperature setting range is 0.5~24hr.
Timer OFF: Timer OFF can be set under ON status of the unit. If time OFF reaches, the system will be turned off. The time interval is 0.5hr and the temperature setting range is 0.5~24hr.

② Clock Timer:

Timer ON: If timer ON is set under runnint status of unit, the system will keep runinng. If running ON is set under OFF status of unit, the system will run in presetting mode when time ON reaches.
Timer OFF: If time OFF is set under off status of unit, the system will keep standby state. If time OFF is set under ON status unit, the system will stop running when timer OFF reaches.

Timer Change:

If the system is under timer state, the unit can be turned on/off by ON/OFF button of remote controller. Timing can be reset and the system will run according to the final setting.
If timer on and timer off are set at the same time under running status of the system, the system will keep the current running status. When timer OFF reaches, the system will be stopped.
If timer on and timer off are set at the same time under off state of the system, the system will keep the current stopping status. When time ON reaches , and then the system will start running.
Later, the system will run in presetting mode when time ON reached and will be stopped when timer off reaches. If the setting time for timer ON and timer OFF is the same, time OFF previals.

（2 ）Auto Button

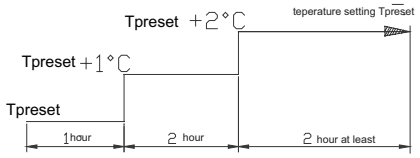
If this button is pressed, the system will run in auto mode and the indoor fan will run at auto speed; Meanwhile, the swing motor will runing. Repressing this button is to turn off the unit.

（3 ）Buzzer

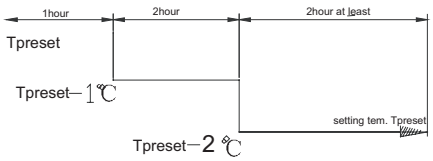
When energization and operation, the buzzer will give out a beep.

（4 ）Sleep Function

When setting sleep function in cooling and dry mode, Tpreset will raise 1℃after 1 hour and 1 ℃more after 2 hours. Temperature will raise 2℃ in all in 2 hours, and then the unit will keep running at the setting temperature.



When setting sleep function in heating mode, Tpreset will decrease 1 ℃ after 1 hour and decrease 1 ℃ more after 2 hours . Temperature will decrease 2 ℃in all in 2 hours, and then the unit will keep running at the setting temperature.(cooling only unit is not available)



（5 ）Turbo Function

This function can be set in cooling and heating mode.

（6 ）Dry Function

This function can be set in cooling and dry mode.

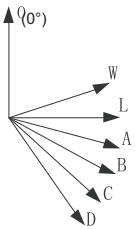
（7 ）Control of Automatic Fan speed

In this mode, the indoor fan will automatically select high, medium or low fan speed with the change of ambient temperature.

（8 ）Up&Down Swing

After energization, Up & Down swing motor will rotate the guide louver anticlockwise to position O to close the air outlet.
After turning on the unit, if swing function hasn't been used, up & down guide louver will turn clockwise to position D in heating mode, and turn clockwise to the position L in other modes.
If the unit is turned on with the swing function, the guide louver will swing between W and D. There are 7 kinds of swing states for the guide louver: position L, A, B, C, D, and it swings and stops between L and D (the angle between L and D is equiangular). When the unit is turned off, the guide louver will be closed at position O. Swing is valid only when swing command is set and the indoor fan is running.

Note: If the position is set between L and B, A and C or B and D by remote controllerler, the guide louver will swing between W and D.



（9 ）Display

① Running Icon and Mode Icon

Upon energization, the unit will display all icons. Under standby state, running indicating icon is displayed in red. If the unit is started by remote controller, running indicating icon gives off light; Meanwhile, the present setting running mode icon will be displayed (mode LED: cooling, heating and dry mode). If the light button is turned off, all icons displaying will be closed.

② Dual 8 display

After starting the unit for the first time, the nixie tube will defaultly to display the preset temperature. When the setting temperature displaying signal is received, the nixie tube will display the setting temp. If ambient temperature displaying signal is received, the nixie tube will display the present indoor ambient temperature. If other states are set by remote controller, the display will keep the previous. If remote controller receives valid signal during displaying ambient temperature, it will display the setting temperature for 5s and then turn to the ambient temperature. F1 is displayed for ambient temperature sensor malfunction, F2 for tube temperature sensor malfunction of indoor unit and C5 for jumper cap has malfunction.

（10）Locked Protection for PG motor

When starting the fan, if motor's rotation speed is slow for a period of time, the unit will display Locked and stop running to avoid auto protection for motor. If the unit is ON currently, error code H6 will be displayed on the dual-8 nixie tube. If the unit is OFF currently, this locked malfunction information won't be displayed.

（11）Power-off Memory

Memory content includes mode, up&down swing, light, setting temp. and setting fan speed.Upon power failure, the unit will automatically start to run according to memory content after power recovery. If the last remote-control command without timer setting,The system will memorize the last remote-control signal and runs according to it. If the last remote controller command has general timer function and the system is de-energized before setting time, the system will memorize the last timer function in remote controller command after re-energization and time will be recalculated. If there is timer function in the last remote controller command but setting time has reached, the system will act as timer on/off setting before de-energization. After re-energization, the system memorizes the running states before power failure without timer action. Clock timer can not be memorized.

7 Assembling and disassembling process

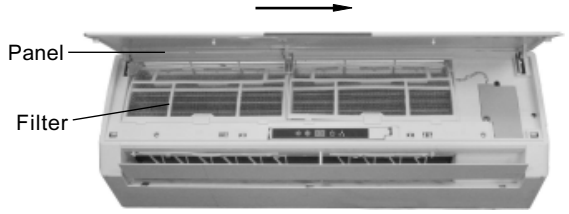
7.1 Dismounting process of indoor unit

Operating Procedures / Photos

Take panel A for example:

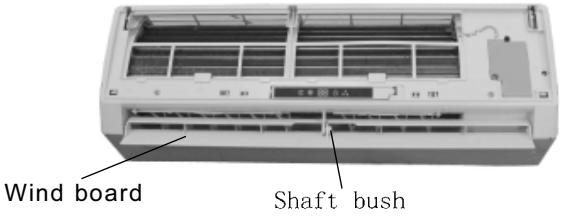
1. Dismounting of faceplate and filter screen

Use the fingers to hold the left and right sides of the faceplate,uncover the faceplate, and use the hand to pull the faceplate along the direction of arrow,and then lift the faceplate upwards after pulling the third buckle open. Like this, the face-plate will be dismounted.



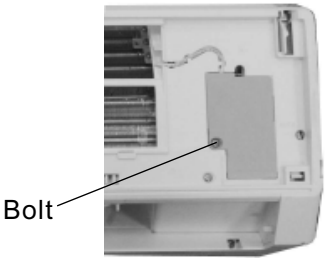
2. Dismounting of wind board

Firstly make the middle shaft bush protruded and then slightly bend the wind board, and the wind board will be dismounted.



3. Dismounting for cover board of electric box

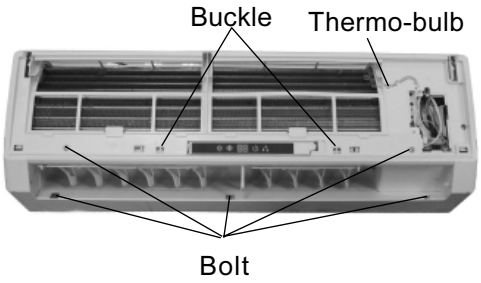
Unscrew one bolt on the cover board of the electric box and then the cover board of the electric box can be dismounted.

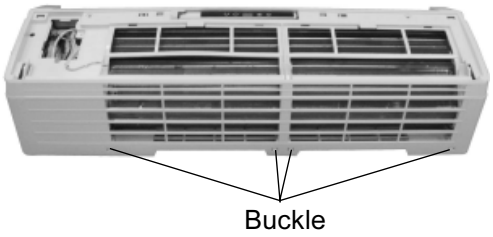


Operating Procedures / Photos

4. Dismounting of faceplate body

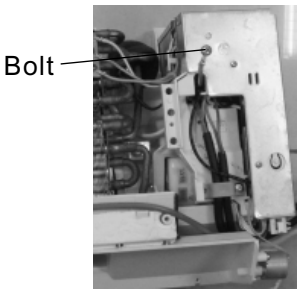
Take the thermo-bulb out from the groove, unscrew two bolts on the faceplate body, and also uncover three bolt covers on the faceplate body to screw three bolts out inside of it, and then loose the buckle at the back of the faceplate body. Firstly spread the middle buckle upwards along the sidelong direction, and then disconnect the buckles on two sides and the buckles on two sides of the display, then pull it upwards, and the faceplate body will be dismounted.

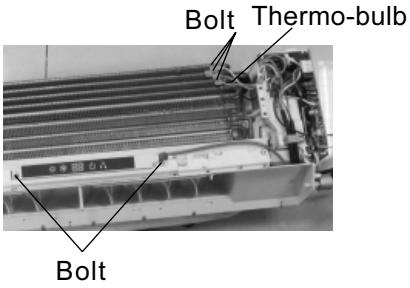




5. Dismounting of display and electric box

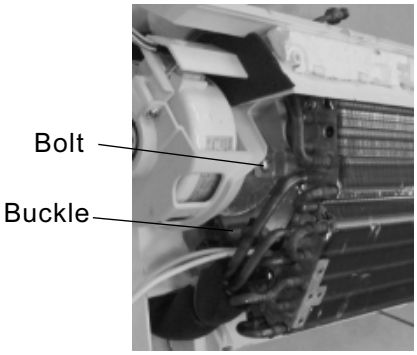
Unscrew two bolts of fixing the display, and then the display will be dismounted. The electric box can be dismounted in such a manner: unscrew one bolt on the electric box cover and loose the buckle on the electric box cover, take down the electric box cover, pluck off the electric heater on the PCB board and the connecting terminal of the purging motor, pluck off the tube temperature thermo-bulb on the evaporator, unscrew three grounding screws on the evaporator, and finally lift it upwards to make it separated from the buckle of the electric box.





6. Dismounting of evaporator component

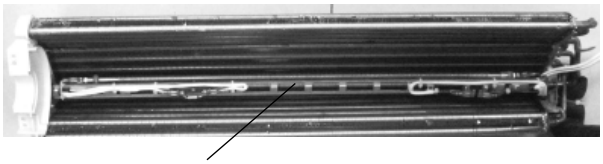
Unscrew three bolts of fixing the evaporator, loose the buckle on the left, and make the evaporator pushed towards right side to make it separated from the right buckle. Like this, the evaporator component will be dismounted.

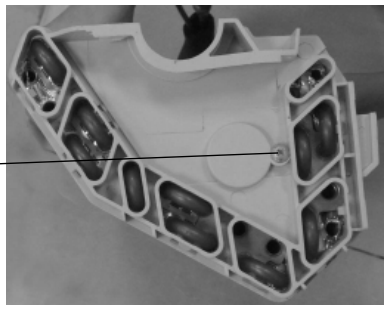


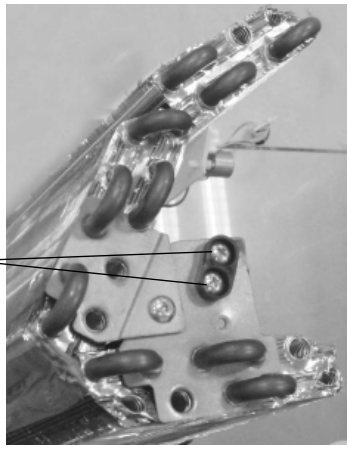
Operating Procedures / Photos

7. Dismounting of electric heating pipe assembly(no such condition for partial types of machines)

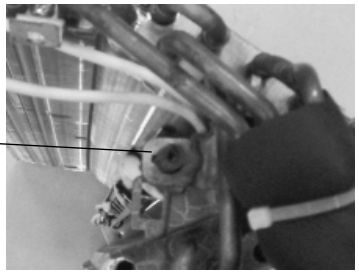
The electric heating pipe assembly is located at the back of evaporator. Unscrew one bolt on the angle bracket of the evaporator to take down the angle bracket of the evaporator. Use the hand to hold the electric heating pipe assembly and unscrew two bolts on the left side and then take down the electric heating pipe assembly along the right groove.





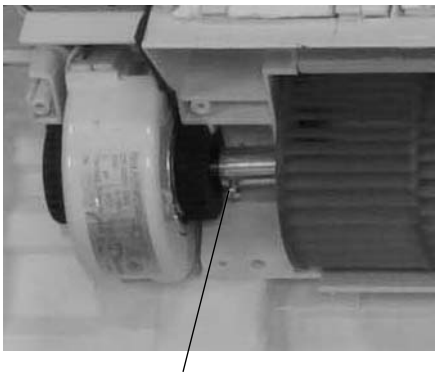


Operating Procedures / Photos



8. Dismounting of motor and tangential fan blade

Use the screwdriver to unscrew the four fixing bolts on the motor pressure plate, so as to take down the motor pressure plate. Then unscrew one bolt connecting the motor and the fan blade, the motor and the tangential fan blade can be separated each other and then dismounted.

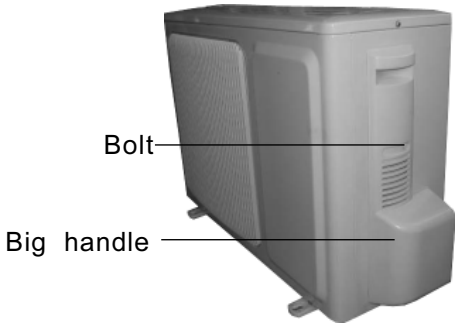


7. 2 Dismounting process of outdoor unit 1(Take 9K for example)

Operating Procedures / Photos

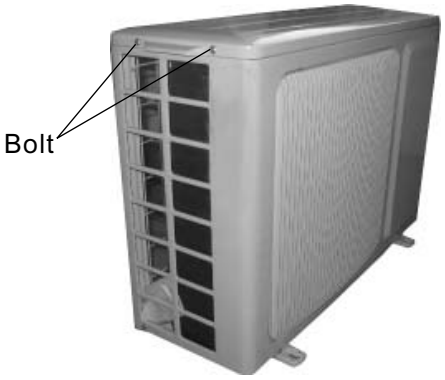
1. Dismounting of big handle

Unscrew one bolt of fixing the big handle to move it downwards, and then the big handle will be dismounted.



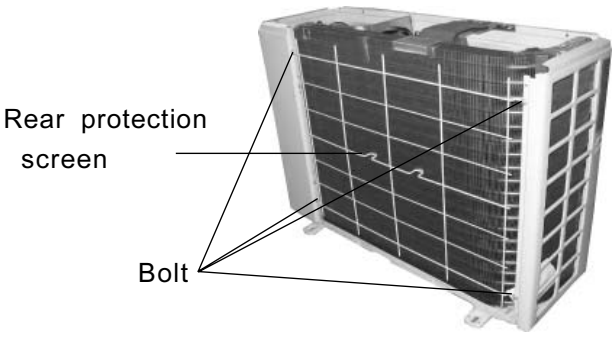
2. Dismounting of top cover

Unscrew two bolts on the left side and the one bolt on the right side (these bolts are used to fix the top cover), and then the top cover will be dismounted.



3. Dismounting of rear protection screen

Unscrew four bolts of fixing the rear protection screen, and then the rear protection screen will be dismounted.



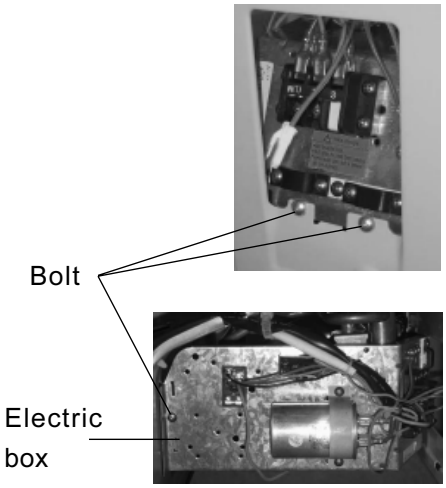
Operating Procedures / Photos

4. Dismounting of faceplate

The faceplate can be dismounted from the groove by unscrewing the five bolts of fixing the faceplate and rotating it towards right side.

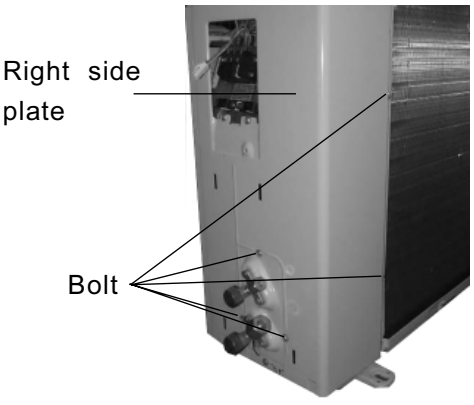
5. Dismounting of electric box

Unscrew the three bolts of fixing the electric box, and loose the compressor and the connecting terminal of the four-way valve, and then the electric box can be dismounted.



6. Dismounting of right side plate

Unscrew the five bolts of fixing the right side plate and then the right side plate can be dismounted.



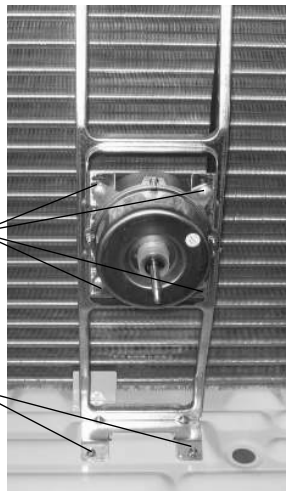
Operating Procedures / Photos

7. Dismounting of axial flow fan blade

Use the spanner to unscrew the fastening bolt of fixing the axial flow fan blade, and then take out the nut, spring washer, and the flat gasket.

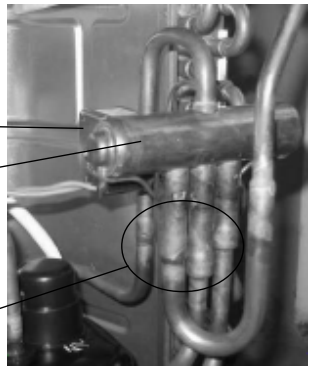
8. Dismounting of motor and motor bracket

The motor can be taken out by unscrewing the four bolts of fixing it. The motor bracket can be taken out by unscrewing the two bolts of fixing it.



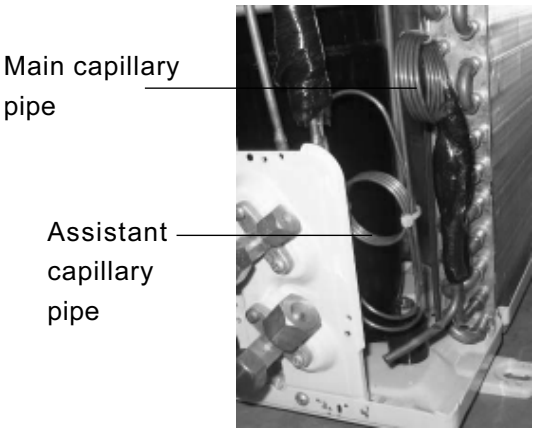
9. Dismounting of four-way valve

Unscrew the fastening nut of the four-way valve winding and take out the winding, and then use wet cotton yarn to wrap the four-way valve.Disconnect the four welding spots by using welding manner, and then the four-way valve will be dismounted.(note: all the cooling medium must be discharged). The welding must be rapid and it is also required to guarantee the button yard of wrapping to be wet. It shall be noted that the compressor lead wire shall not be burn out by the welding flame.



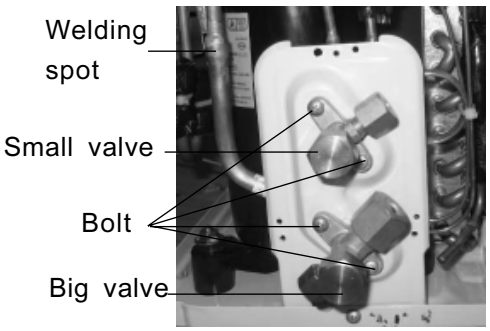
10. Dismounting of capillary pipe assembly

Unsoldering each welding spot of the main capillary pipe
and the assistant capillary pipe, so as to take out the
capillary pipe assembly.



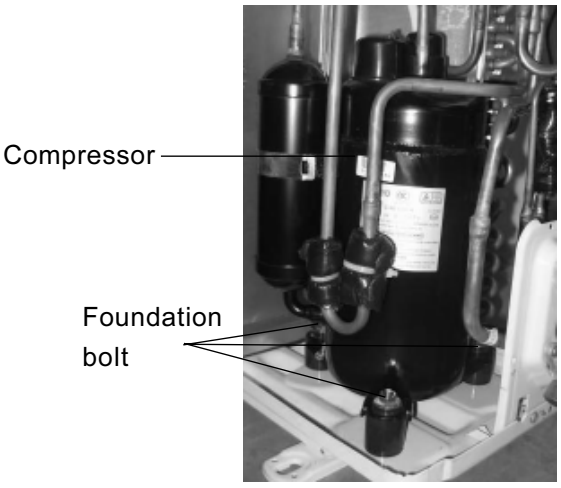
11. Dismounting of big and small valves

Unscrew the two bolts of fixing the big and small valves, and unsoldering the connecting welding spot between the big valve and the air return pipe to take out the big valve. Unscrew the two bolts of fixing the small valve, and unsoldering the connecting welding spot between the capillary pipe and the small valve to take out the big valve.(Note: when unsoldering the welding spot, it is required to use the wet cloth to wrap the valve completely,so as to avoid the valve body from being damaged by high temperature.



12. Dismounting of compressor

Unscrew three foundation bolts of the compressor,
unsolder the air suction and discharge pipe,
and carefully remove the pipeline,
and then the compressor will be taken out.

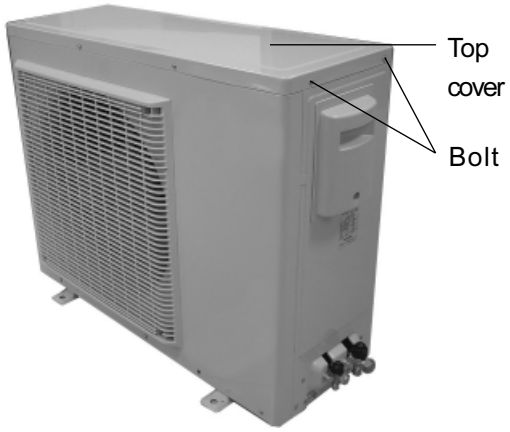


7.3 Dismounting process of outdoor unit 2

Operating Procedures / Photos

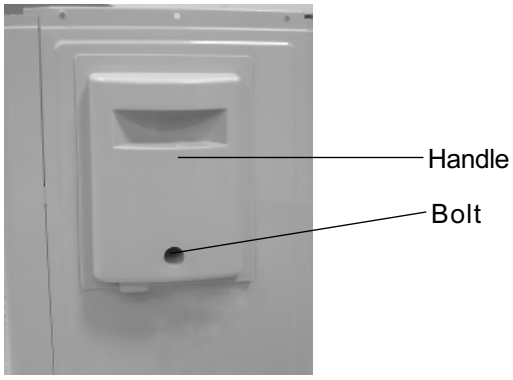
1. Dismounting of top cover

The top cover can be taken out
by unscrewing the bolts of
fixing it and lifting it upwards.



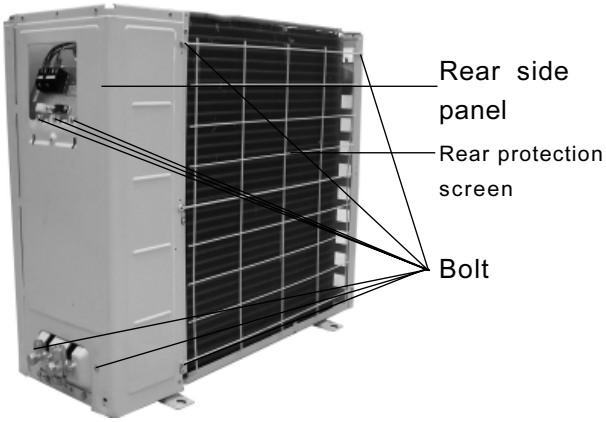
2. Dismounting of handle

Unscrew the one bolt of fixing the handle
and push the handle downwards,
and then the handle will be taken out.



3. Dismounting of the rear side plate assembly

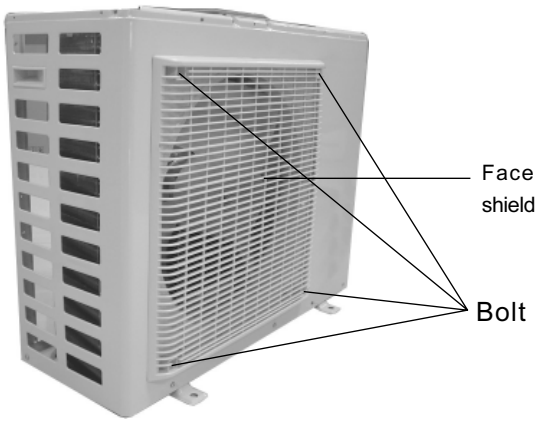
Unscrew the bolts of fixing the rear
protection screen
and the bolts of fixing the rear side plate,
and then the rear side plate assembly
will be dismounted
after dismounting the rear protection
screen.



Operating Procedures / Photos

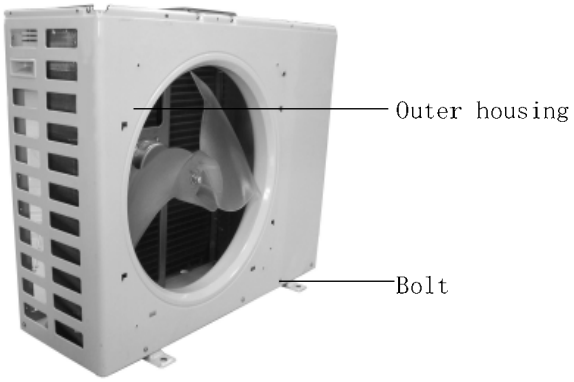
4. Dismounting of face shield

The face shield can be taken out by unscrewing the bolts
of fixing it and then slightly pulling it upwards.



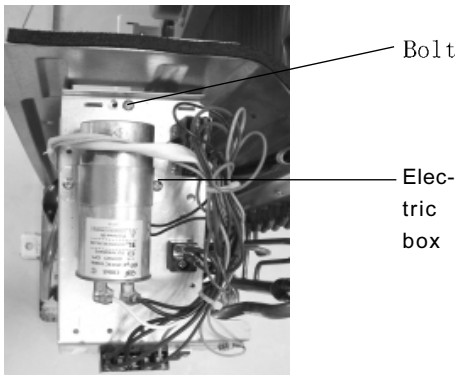
5. Dismounting of outer housing

The outer housing can be taken out by unscrewing the bolts of fixing it.



6. Dismounting of electric box assembly

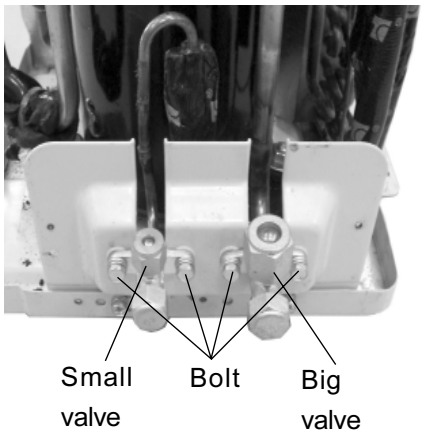
Unscrew the bolt of fixing the electric box and pull out the connecting wires between the compressor and fan motor and the electric box, and then lift the electric box upwards, and the electric box will be taken out.



Operating Procedures / Photos

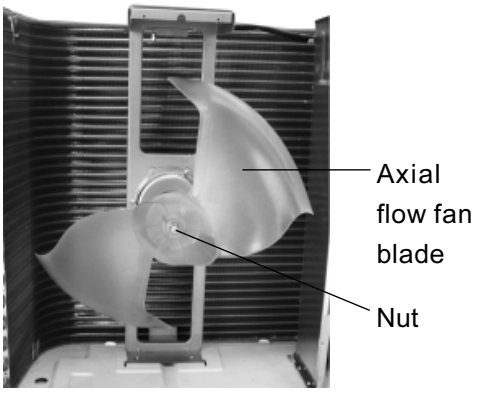
7. Dismounting of big and small valves

Firstly unsolder the pipeline pieces connected with the valves (in order to avoid the base plate from being burn out by the welding gun). Unscrew the two bolts of fixing the big valve and unsolder the welding spots between the pipeline pieces and the big valves, and then the big valve will be dismounted. Unscrew the two bolts of fixing the small valve and unsolder the welding spots between the pipeline pieces and the big valves, and then the small valve will be taken out. (Note: when unsoldering the welding spots,it is required to use the wet clothe to wrap the valve completely, so as to avoid the valve body being damaged by high temperature).



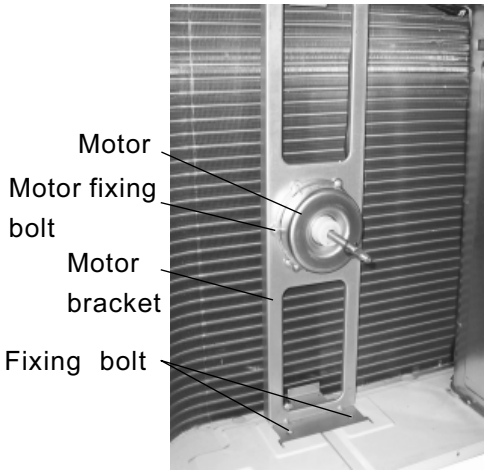
8. Dismounting of axial flow fan blade

The fan blade can be taken out by using the spanner to dismount the nut of the fan blade.



9. Dismounting of outdoor motor

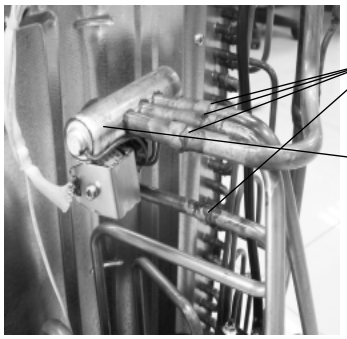
The motor bracket can be dismounted by unscrewing the bolt of fixing the motor and lifting it upwards. The motor can be dismounted by unscrewing the bolt of fixing the motor and pulling out the connecting wire of the motor and the electric box.



Operating Procedures / Photos

10. Dismounting of four-way valve

(only cooling and warming machine has four-way valve) Unscrew the fastening nut of the four-way valve winding and take out the winding, and then use the wet button yarn to wrap the four-way valve and unsolder the four welding spots connected to the four-way valve, and then the four-way valve will be taken out. The welding must be rapid and it is also required to guarantee the button yarn to be wet always. It shall be noted that the welding flame shall not burn out the compressor lead wire and so on.



11. Dismounting of capillary pipe

The capillary pipe can be dismounted in rotation manner by unsoldering the welding spots between the capillary pipe and the valve and condensator output pipe. Please note that the capillary pipe shall not be blocked by the welding slag when changing the capillary pipe.

12. Dismounting of compressor

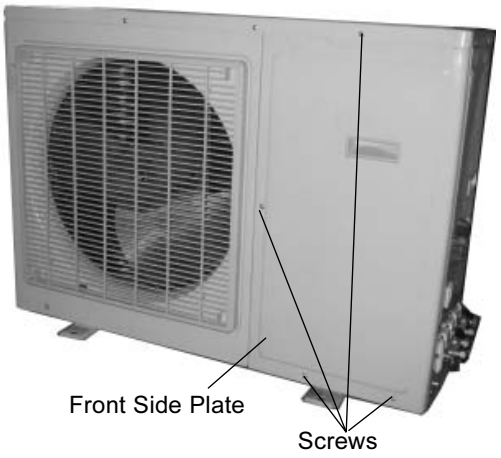
The compressor can be dismounted by unsoldering the pipeline connected to it and then dismounting the three foundation nuts of it.

7.4 Dismounting process of outdoor unit 3 (It' s applicable to 1-to-2 units)

Operating Procedures / Photos

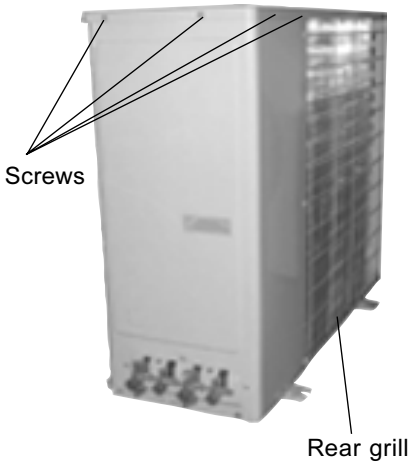
1. Disassemble Front Side Plate

UnScrew the screw fixed the front side plate,slide it down, disassemble the front side plate.



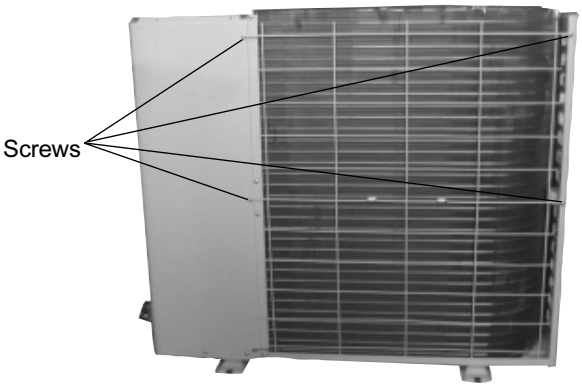
2. Disassemble Top Cover

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



3. Disassemble Rear Grill

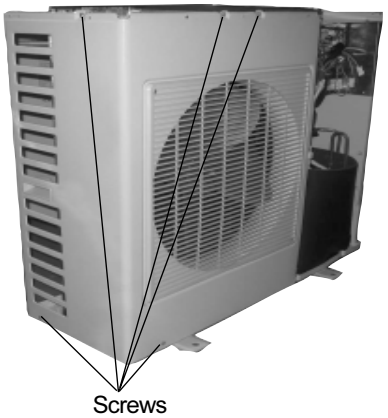
screw off 4pcs screws which fix the rear grill, remove the rear grill.



Operating Procedures / Photos

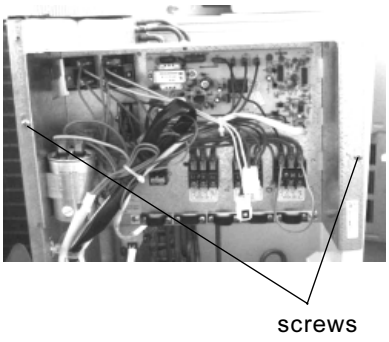
4. Disassemble Cabinet

Unscrew the screws fixing the cabinet to remove it.



5. Disassemble Electric Box Subassy

Unscrew the 2 screws fixing electric box to pull out the connection line between Compressor, fan motor and electric box ,and then lift the electric box to take it out.



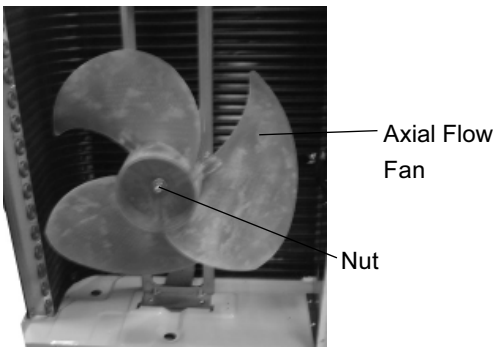
6. Disassemble rear side plate

Loosen off the screw fixing of the rear side plate, disassemble the rear side plate.

Operating Procedures / Photos

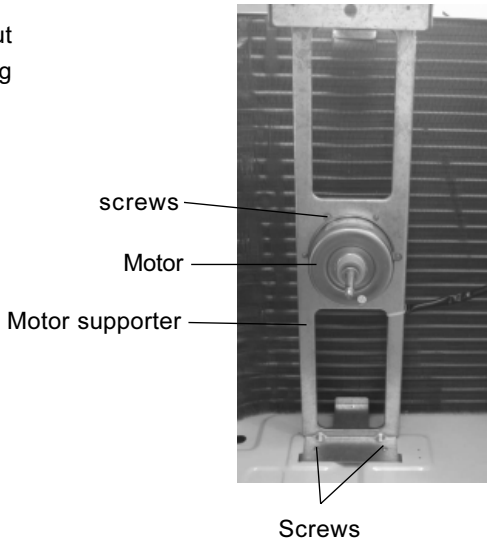
7. Disassemble Axial Flow Fan

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



8. Disassemble Outdoor Motor

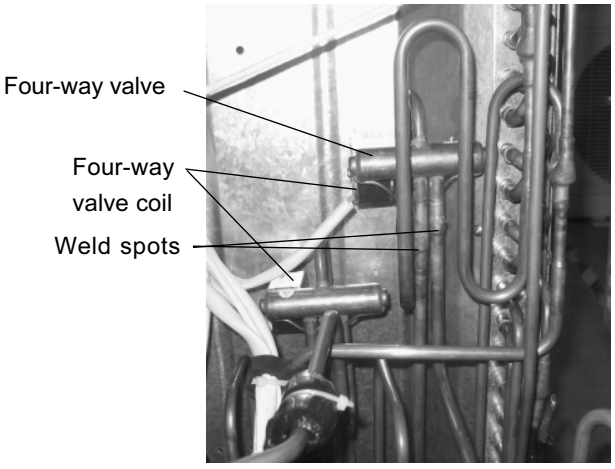
Unscrew the 4 screws fixing the motor to take out the motor, and then unscrew the 2 screws fixing the motor support to take it out.



9. 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 spots connecting the four-way valve to take it out.(4pcs for each4-way valve)

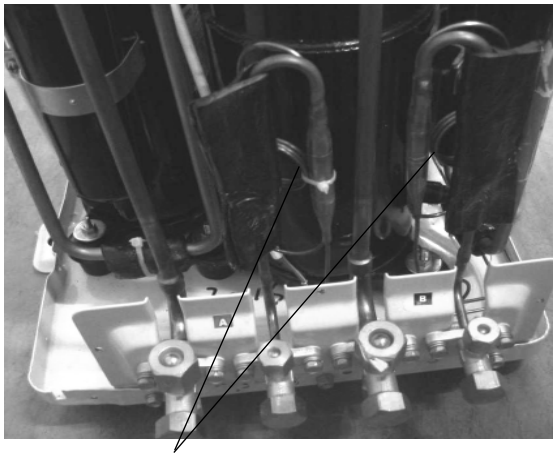
Note: Refrigerant should be discharged firstly. Welding process should be as quick as possible and keep wrapping cotton wet all the time. Be sure not to burn out the lead-out wire of compressor.



Operating Procedures / Photos

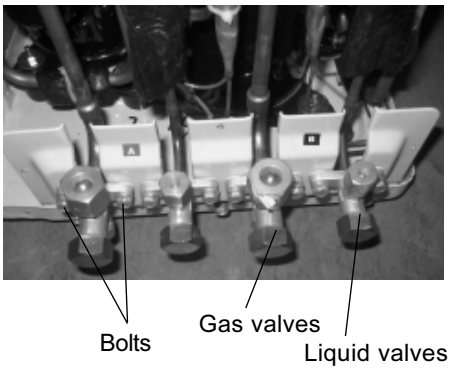
10. Disassemble Capillary

Unsolder 2pcs capillary assy and 4pcs soldered pointwhich connected liquid valve and condenser outlet pipe,take off the capillary sub-assy.



11. Disassemble Gas and Liquid Valves

Unscrew 4pcs bolts fixing gas valve and liquid valve.Unsolder weld spots between gas valve and air-return pipe to remove the gas valve.
Unscrew 4pcs bolts fixing liquid valve. take off liquid valve.
Note: During unsoldering, wrap the valves with wet cloth to avoid damage for high temperature.



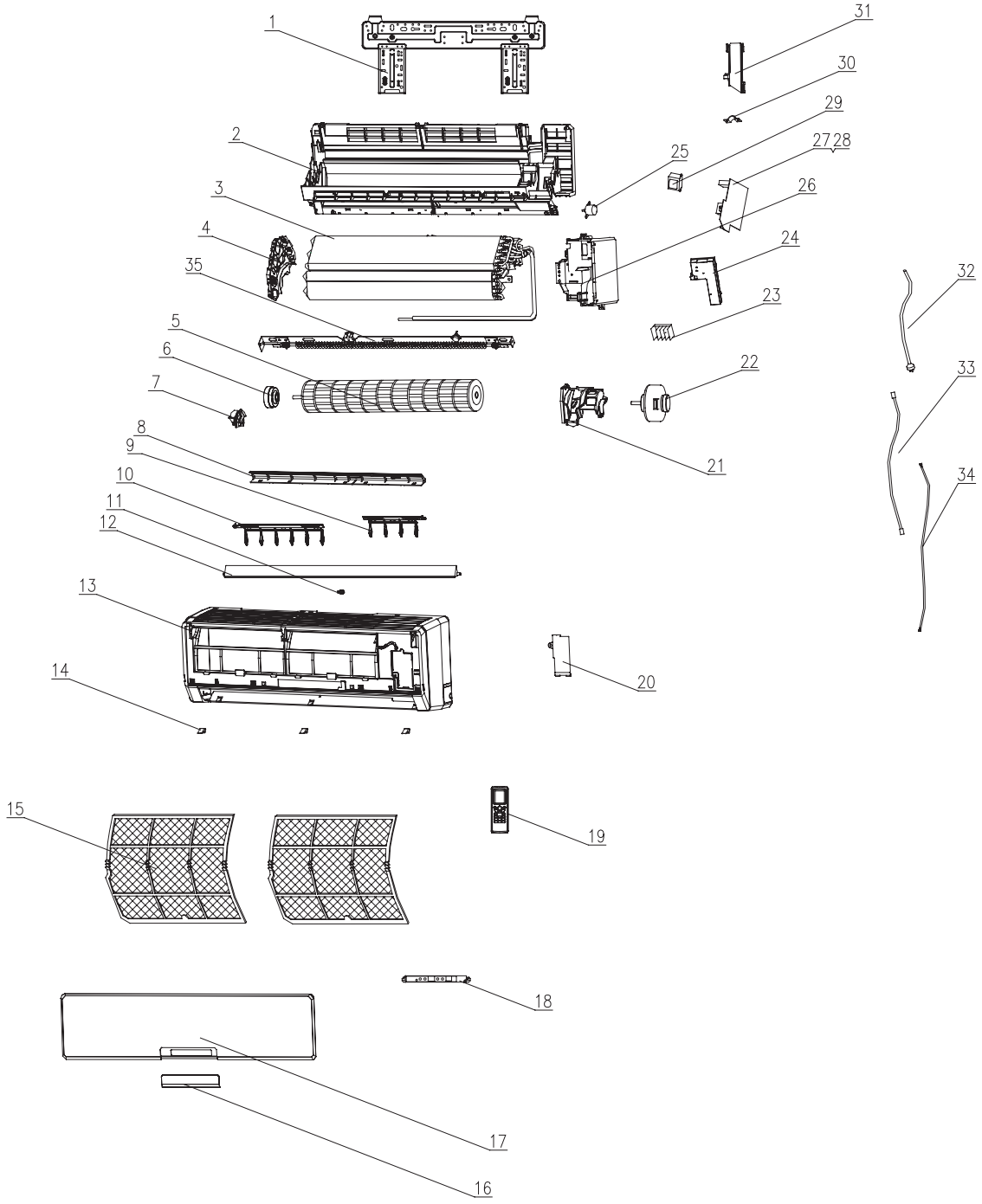
12. Disassemble Compressor

Loosen 6pcs nut with washer at bottom of two compressor:(Note: The refrigerant should be discharged at first.)Unsolder the air in, air out pipes of the comressor, be carefullyto remove the pipelines, take out the compressor.

8 Explosive view and spare parts list

8.1 Explosive view of indoor unit

Applicable to: GWH09MA-K3NNA1A/I、GWH09MA-K3NNA2A/I、GWH09MA-K3NNA3A/I、GWH09MA-K3NNA4A/I; GWH18(09X2)MA-K3NNA4A(indoor unit)、GWH18(09X2)MA-K3NNA3A(indoor unit)、GWH18(09X2)MA-K3NNA2A(indoor unit)、GWH18(09X2)MA-K3NNA1A(indoor unit)、GWH21(09+12)MB-K3NNA4A(9K);



8.2 Spare Parts list of indoor unit

No.	Description	Part Code		Qty
		GWH09MA-K3NNA1A/I	GWH09MA-K3NNA2A/I	
1	Wall-Mounting Frame	01252015	01252015	1
2	Rear Case	22202453	22202453	1
3	Evaporator Assy	0100255202	0100255202	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	Helicoid tongue	26112162	26112162	1
9	Swing Louver	10512113	10512113	1
10	Swing Louver	10512114	10512114	1
11	Axile Bush	10542704	10542704	1
12	Guide Louver1	10512111	10512111	1
13	Front Case	20012179	20012120	1
14	Screw Cover	24252016	24252016	3
15	Filter	11122081	11122081	2
16	Decorative Board	/	20192265	1
17	Front Panel	2001214301S	20012142S	1
18	Receiver Board	30565008	30565009	1
19	Remote Control	30510041	30510041	1
20	Covering Plate	20122075	20122075	1
21	Motor Clamp	26112160	26112160	1
22	Motor	15012078	15012078	1
23	Terminal Board	42010262	42010262	1
24	Electric Box Cover	20102848	20102848	1
25	Motor	1521210801	1521210801	1
26	Electric Box	20112064	20112064	1
27	Main PCB	30135242	30035566	1
28	Jumping Connector	4202300128	4202300128	1
29	Transformer	43110236	43110236	1
30	Wire Clamp	71010103	71010103	1
31	Rear Clamp	26112164	26112164	1
32	Power Cord	400220113	400220113	1
33	Connecting Cable	40020540	40020540	1
34	Signal Cable	40020536	40020536	1
35	/	/	/	/

The above data are subject to be changed without notice.

No.	Description	Part Code		Qty
		GWH09MA-K3NNA3A/I	GWH09MA-K3NNA4A/I、GWH21(09+12)MB-K3NNA4A内机9K	
1	Wall-Mounting Frame	01252015	01252015	1
2	Rear Case	22202453	22202453	1
3	Evaporator Assy	0100255202	0100255202	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	Helicoid tongue	26112162	26112162	1
9	Swing Louver	10512113	10512113	1
10	Swing Louver	10512114	10512114	1
11	Axile Bush	10542704	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	1
17	Front Panel	20012121S	20012151S	1
18	Receiver Board	30565007	30565012	1
19	Remote Control	30510041	30510041	1
20	Covering Plate	20122075	20122075	1
21	Motor Clamp	26112160	26112160	1
22	Motor	15012078	15012078	1
23	Terminal Board	42010262	42010262	1
24	Electric Box Cover	20102848	20102848	1
25	Motor	1521210801	1521210801	1
26	Electric Box	20112064	20112064	1
27	Main PCB	30035566	30035566	1
28	Jumping Connector	4202300128	4202300128	1
29	Transformer	43110236	43110236	1
30	Wire Clamp	71010103	71010103	1
31	Rear Clamp	26112164	26112164	1
32	Power Cord	400220113	400220111	1
33	Connecting Cable	40020540	40020540	1
34	Signal Cable	40020536	40020536	1
35	/	/	/	/

The above data are subject to be changed without notice.

No.	Description	Part Code		Qty
		GWH18(09X2)MA-K3NNA1A; GWH(09)MA-K3NNA1A/I	GWH18(09X2)MA-K3NNA2A; GWH(09)MA-K3NNA2A/I	
1	Wall-Mounting Frame	01252015	1252015	1
2	Rear Case	22202453	22202453	1
3	Evaporator Assy	0100255202	100255202	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	Helicoid 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	20012179	20012120	1
14	Screw Cover	24252016	24252016	3
15	Filter	11122081	11122081	2
16	Decorative Board	/	20192265	1
17	Front Panel	2001214301S	20012142S	1
18	Receiver Board	30565008	30565009	1
19	Remote Control	30510041	30510041	1
20	Covering Plate	20122075	20122075	1
21	Motor Clamp	26112160	26112160	1
22	Motor	15012078	15012078	1
23	Terminal Board	4201026201	4201026201	1
24	Electric Box Cover	20102848	20102848	1
25	Motor	1521210801	1521210801	1
26	Electric Box	20112064	20112064	1
27	Main PCB	30135246	30135250	1
28	Jumping Connector	4202300128	4202300128	1
29	Transformer	43110236	43110236	1
30	Wire Clamp	71010103	71010103	1
31	Rear Clamp	26112164	26112164	1
32	/	/	/	/
33	Connecting Cable	400205235	400205235	1
34	Signal Cable	40020536	40020536	1
35	/	/	/	/

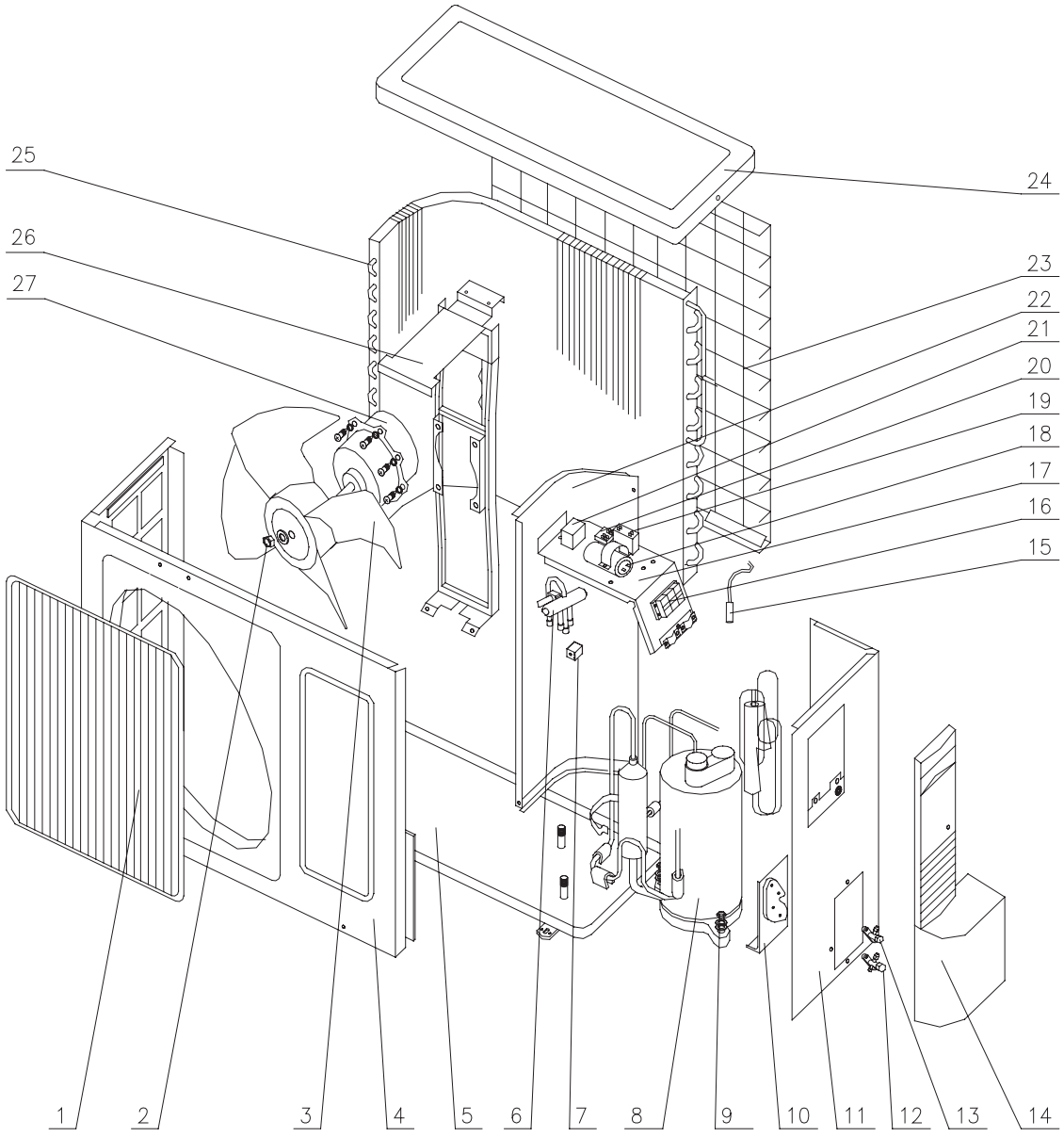
The above data are subject to be changed without notice.

No.	Description	Part Code		Qty
		GWH18(09X2)MA-K3NNA3A; GWH(09)MA-K3NNA3A/I	GWH18(09X2)MA-K3NNA4A; GWH(09)MA-K3NNA4A/I	
1	Wall-Mounting Frame	01252015	01252015	1
2	Rear Case	22202453	22202453	1
3	Evaporator Assy	0100255202	0100255202	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	Helicoid 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	1
17	Front Panel	20012121S	20012151S	1
18	Receiver Board	30565007	30565012	1
19	Remote Control	30510041	30510041	1
20	Covering Plate	20122075	20122075	1
21	Motor Clamp	26112160	26112160	1
22	Motor	15012078	15012078	1
23	Terminal Board	4201026201	4201026201	1
24	Electric Box Cover	20102848	20102848	1
25	Motor	1521210801	1521210801	1
26	Electric Box	20112064	20112064	1
27	Main PCB	30135250	30135250	1
28	Jumping Connector	4202300128	4202300128	1
29	Transformer	43110236	43110236	1
30	Wire Clamp	71010103	71010103	1
31	Rear Clamp	26112164	26112164	1
32	/	/	/	/
33	Connecting Cable	400205235	400205235	1
34	Signal Cable	40020536	40020536	1
35	/	/	/	/

The above data are subject to be changed without notice.

8.3 Explosive view of outdoor unit

Applicable to: GWH09MA-K3NNA1A/O、GWH09MA-K3NNA2A/O、GWH09MA-K3NNA3A/O、 GWH09MA-K3NNA4A/O



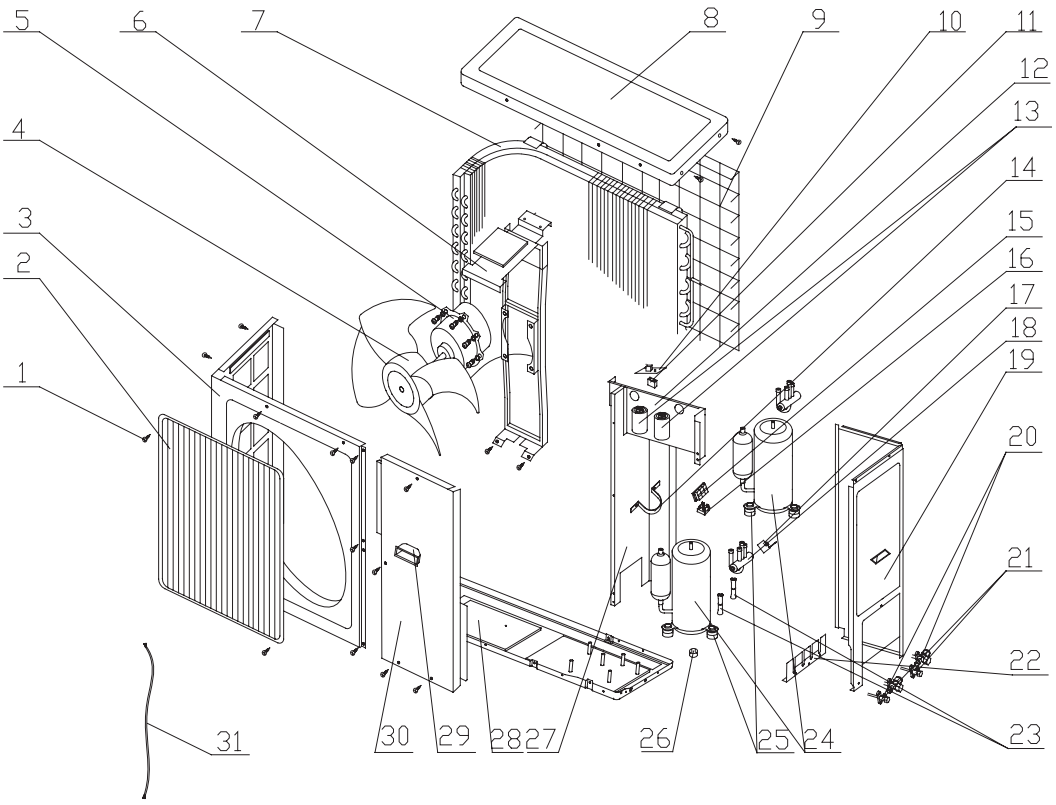
8.4 Spare Parts list of outdoor unit

No.	Description	Part Code	Qty
		GWH09MA-K3NNA1A/O、GWH09MA-K3NNA2A/O、GWH09MA-K3NNA3A/O、GWH09MA-K3NNA4A/O	
1	Front Grill	22413431	1
2	Nut M6	70310131	1
3	Axial Flow Fan	10333004	1
4	Front Plate	01533012	1
5	Metal Base	01203659P	1
6	4-way Valve	430004022	1
7	4-way Valve Coil	43000400	1
8	Compressor	00103082	1
	Overload Protector	00183009	1
	Compressor Gasket	76711004	3
9	Nut with Washer	70310014	3
10	Valve Support	01713041	1
11	Right Side Plate	01302004	1
12	Valve 3/8"	07100005	1
13	Valve 1/4"	07100003	1
14	Handle	26233433	1
15	——	——	——
16	Terminal Board	42010265	1
17	Electric Plate Assy	01403117	1
18	Capacitor	33000018	1
19	Capacitor	33010025	1
20	Terminal Board	42011147	1
21	——	——	——
22	Isolation Sheet	01233417	1
23	Rear Grill	11123205	1
24	Top cover plate	01253443	1
25	Condenser Assy	0110395702	1
26	Motor Support	01703053	1
27	Motor	150130671	1

The above data are subject to be changed without notice.

8.5 Explosive view of outdoor unit

Applicable to:GWH18(09X2)MA-K3NNA1A/O、GWH18(09X2)MA-K3NNA2A/O、GWH18(09X2)MA-K3NNA3A/O、GWH18(09X2)MA-K3NNA4A/O



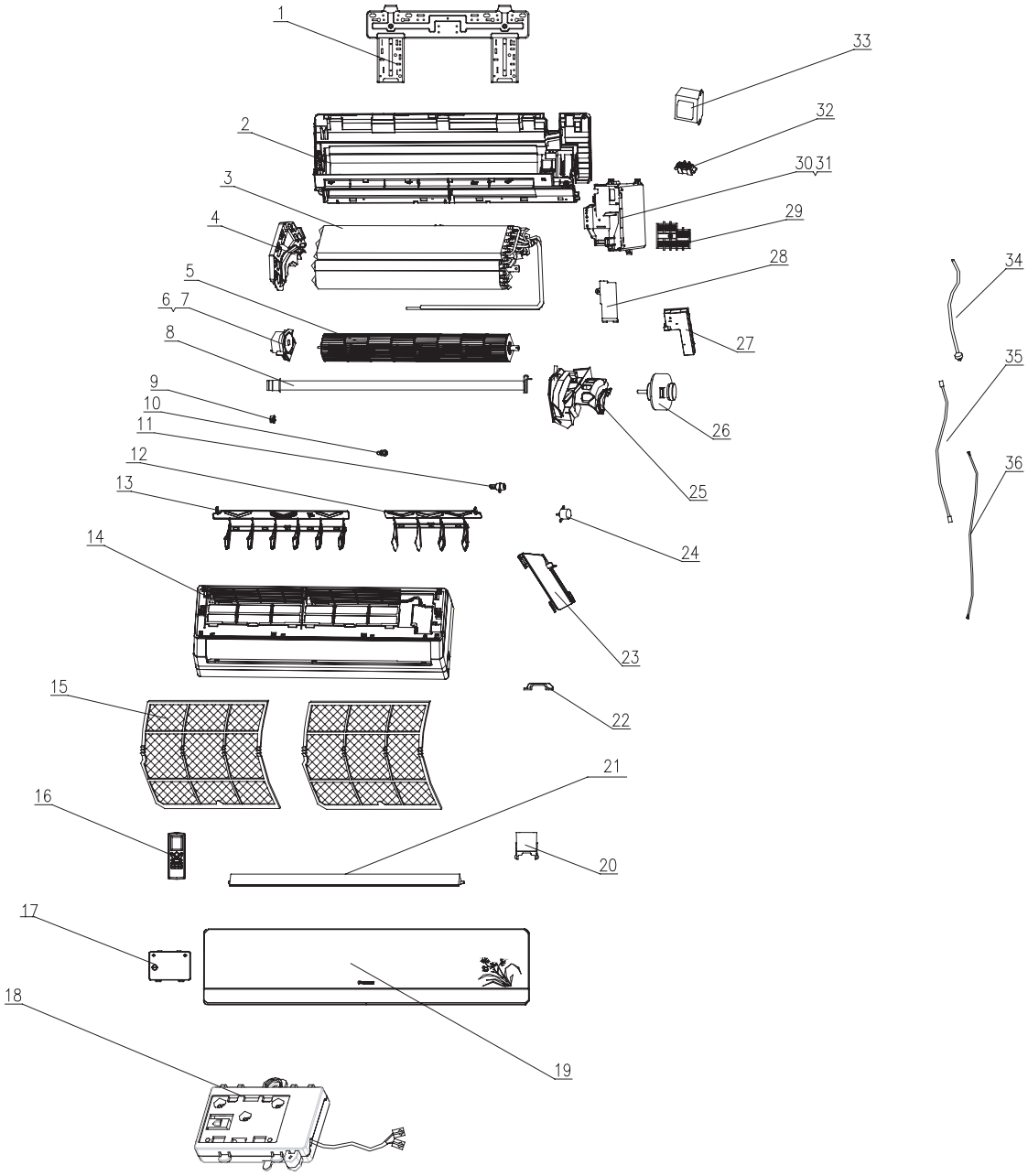
8.6 Spare Parts list of outdoor unit

No.	Description	Part Code GWH18(09X2)MA-K3NNA1A/O、GWH18(09X2)MA-K3NNA2A/O、GWH18(09X2)MA-K3NNA3A/O、GWH18(09X2)MA-K3NN4A/O	Qty
1	Self-tapping Screw	70140393	17
2	Front Grill	22414102	1
3	Front Plate	01433017P	1
4	Axial Flow Fan	10338731	1
5	Motor	1501542103	1
6	Motor Support	01705204	1
7	Condenser Assy	01113009	1
8	Top Cover	01255262	1
9	Rear Grill	01473028	1
10	Defrosting PCB	30038001	1
11	Capacitor	33010010	1
12	Electric Box	01413003	1
13	Capacitor	33000018	2
14	Capacitor Clamp	02143013	2
15	Terminal Board	42011147	1
16	Terminal Board	420101941	2
17	4-way Valve Coil	430004002	1
	4-way Valve Coil	43000400	1
18	4-Way Valve	430004022	2
19	Rear Side Plate	01303044	1
20	Valve 3/8"	07130209	2
21	Valve 1/4"	07130208	2
22	Valve Support	01713027	1
23	On Way Valve	0713010301	2
24	compressor	00106012	2
25	Compressor Gasket	76716024	6
26	Compressor overload	00186014	2
27	Mid Clapboard	012330241	1
28	Metal Base	01203644P	1
29	Handle	26235253	3
30	Front Side Plate	01303023	1
31	Connecting Cable	40020318	1

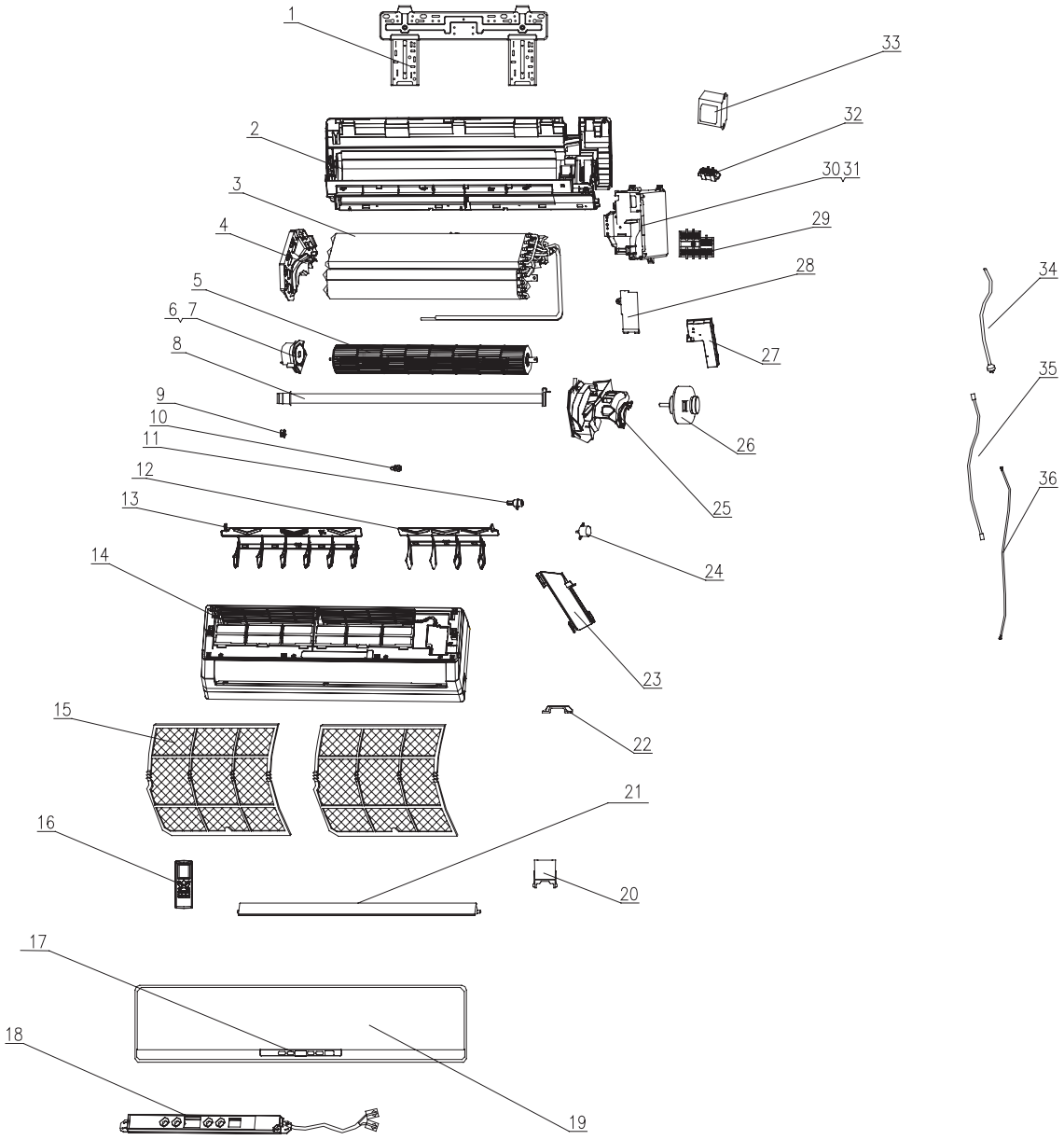
The above data are subject to be changed without notice.

8.7 Explosive view of indoor unit

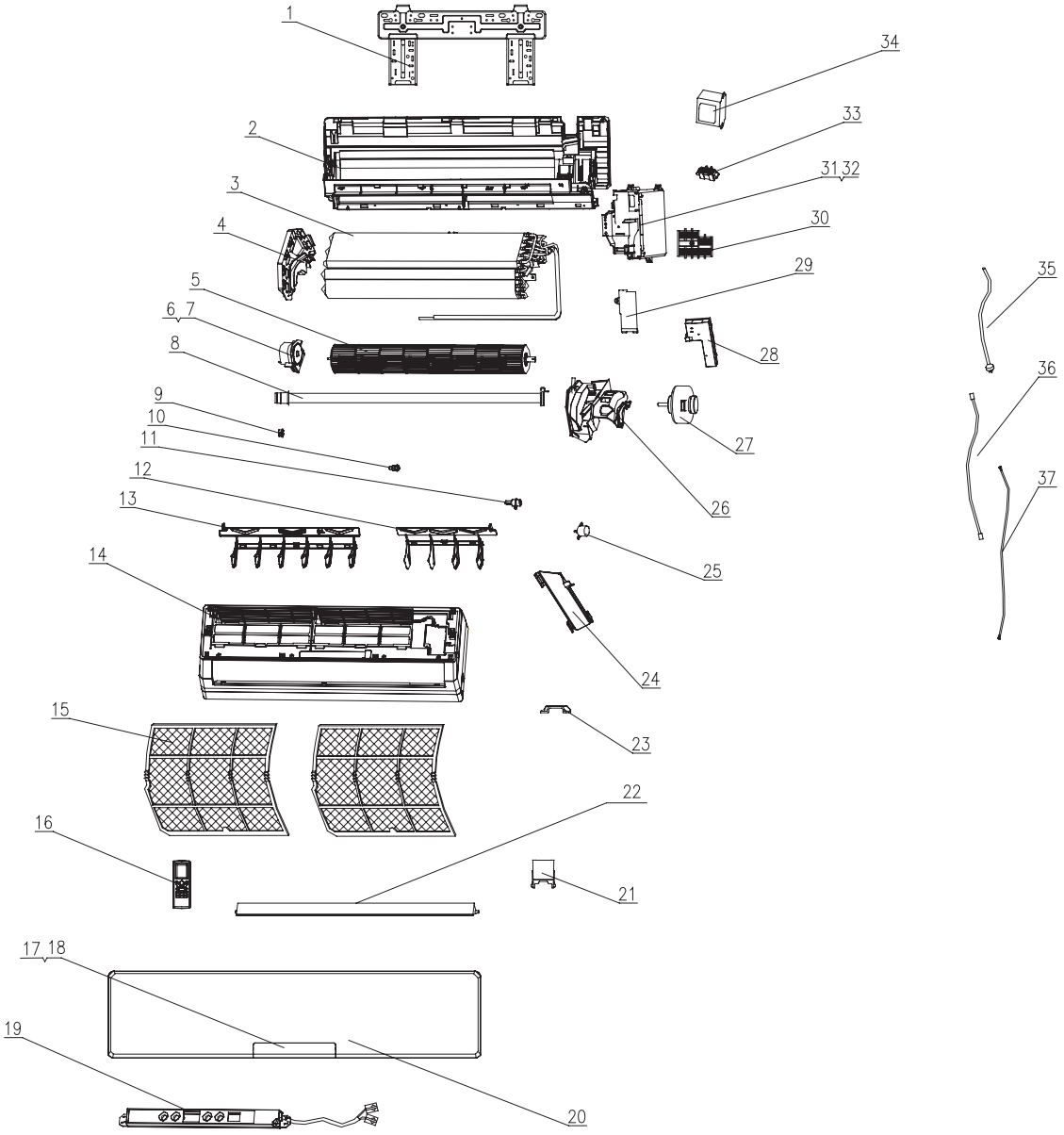
Applicable to: GWH12MB-K3NNA1A/I



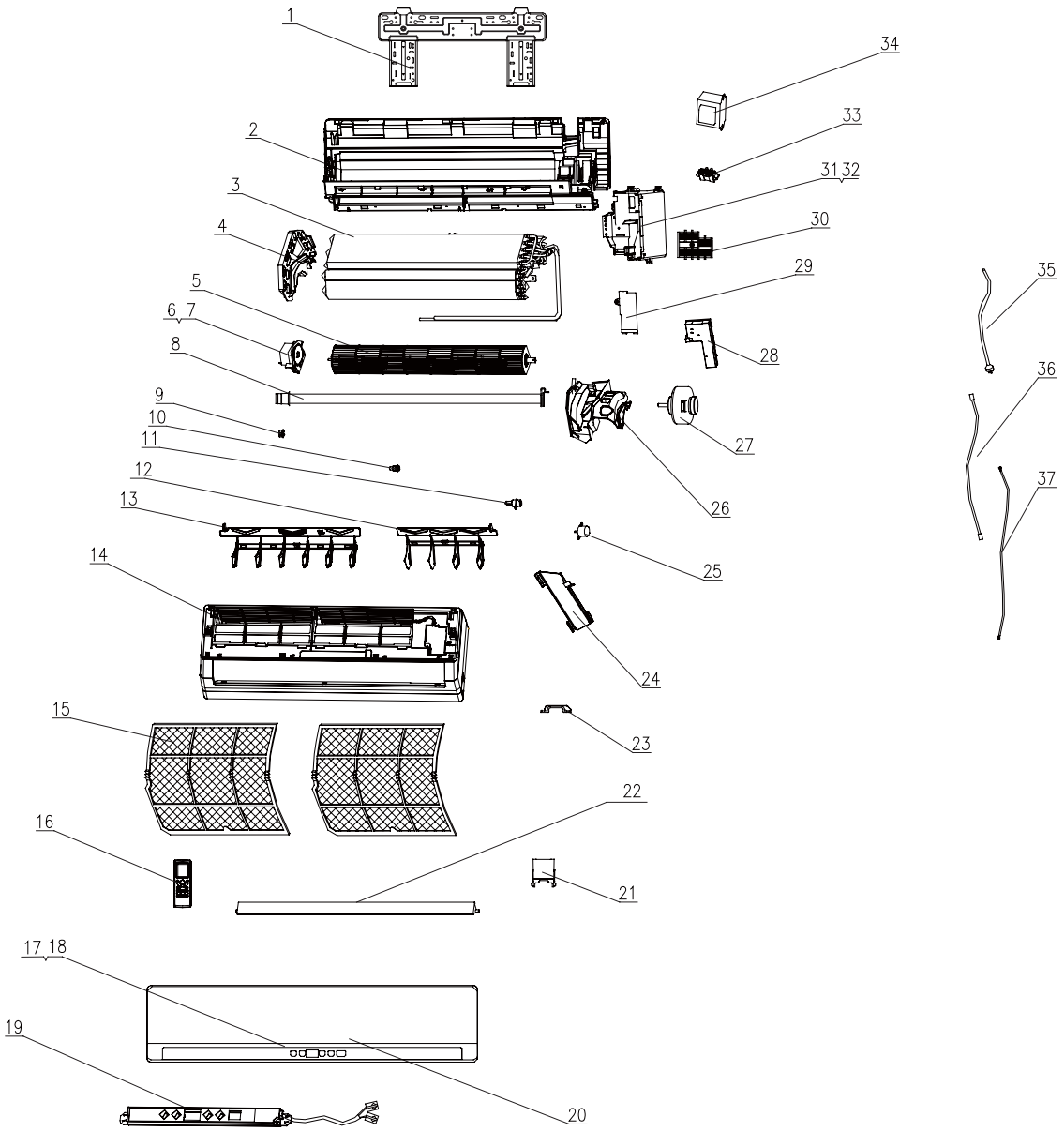
Applicable to: GWH12MB-K3NNA2A/I



Applicable to: GWH12MB-K3NNA3A/I、GWH09MB-K3NNA3B/I、GWH12MB-K3NNA3B/I



Applicable to: GWH12MB-K3NNA4A/I



8.8 Spare Parts list of indoor unit

No.	Description	Part Code	Qty
		GWH12MB-K3NNA1A/I	
1	Wall-Mounting Frame	01252013	1
2	Rear Case	2220245401	1
3	Evaporator Assy	0100255801	1
4	Evaporator Support	24212091	1
5	Cross Flow Fan	10352017	1
6	Bearing cushion rubber base	26152022	1
7	Ring of Bearing	76512203	1
8	Volute tongue	26112163	1
9	Left Axile Bush	10512037	1
10	Crank	10582070	1
11	Axile Bush	10542008	1
12	Swing Louver1	10512156	1
13	Swing Louver2	10512155	1
14	Front Case	2001212301	1
15	Filter	1112220401	2
16	Remote Control YB1FA	305100412	1
17	Decorative board	22432157P	1
18	Receiver Board D5185	30565008	1
19	Front Panel	20012145	1
20	Screw Cover	24252016	1
21	Guide Louver	10512157	1
22	Wire Clamp	71010003	1
23	Rear Clamp	26112164	1
24	Motor MP24AA	1521210801	1
25	Motor Clamp	26112161	1
26	Motor FN20J-PG	150120874	1
27	Electric Box Cover 1	20102848	1
28	Covering Plate2	20122075	1
29	Terminal Board	42010262	1
30	Electric Box	20112064	1
31	Main PCB M518F2EJ	30135242	1
32	Jumping Connector	4202300130	1
33	Transformer 41X26.5G	43110236	1
34	Power Cable	400220112	1
35	Connecting Cable	400205401	1
36	Signal Cable	40020536	1

The above data are subject to be changed without notice.

No.	Description	Part Code	Qty
		GWH12MB-K3NNA2A/I	
1	Wall-Mounting Frame	01252013	1
2	Rear Case	2220245401	1
3	Evaporator Assy	0100255801	1
4	Evaporator Support	24212091	1
5	Cross Flow Fan	10352017	1
6	Ring of Bearing	26152022	1
7	Bearing cushion rubber base	76512203	1
8	Volute tongue	26112163	1
9	Left Axile Bush	10512037	1
10	Crank	10582070	1
11	Axile Bush	10542008	1
12	Swing Louver1	10512156	1
13	Swing Louver2	10512155	1
14	Front Case	20012123	1
15	Filter	1112220401	2
16	Remote Control YB1FA	305100412	1
17	Decorate Piece	2019223401	1
18	Receiver Board D5183A	30565009	1
19	Front Panel	20012150	1
20	Screw Cover	24252016	1
21	Guide Louver	10512157	1
22	Wire Clamp	71010003	1
23	Rear Clamp	26112164	1
24	Motor MP24AA	1521210801	1
25	Motor Clamp	26112161	1
26	Motor FN20J-PG	150120874	1
27	Electric Box Cover 1	20102848	1
28	Covering Plate2	20122075	1
29	Terminal Board	42010262	1
30	Electric Box	20112064	1
31	Main PCB M518F2AJ	30035566	1
32	Jumping Connector	4202300130	1
33	Transformer 41X26.5G	43110236	1
34	Power Cable	400220112	1
35	Connecting Cable	400205401	1
36	Signal Cable	40020536	1

The above data are subject to be changed without notice.

No.	Description	Part Code	Qty
		GWH12MB-K3NNA3A/I	
1	Wall-Mounting Frame	01252013	1
2	Rear Case	2220245401	1
3	Evaporator Assy	0100255801	1
4	Evaporator Support	24212091	1
5	Cross Flow Fan	10352017	1
6	Bearing cushion rubber base	26152022	1
7	Ring of Bearing	76512203	1
8	Volute tongue	26112163	1
9	Left Axile Bush	10512037	1
10	Crank	10582070	1
11	Axile Bush	10542008	1
12	Swing Louver1	10512156	1
13	Swing Louver2	10512155	1
14	Front Case	20012123	1
15	Filter	1112220401	2
16	Remote Control YB1FA	305100412	1
17	Decorative board	22432156	1
18	Double-side glue	55112004	1
19	Receiver Board D5183	30565007	1
20	Front Panel	20012122	1
21	Screw Cover	24252016	1
22	Guide Louver	10512157	1
23	Wire Clamp	71010003	1
24	Rear Clamp	26112164	1
25	Motor MP24AA	1521210801	1
26	Motor Clamp	26112161	1
27	Motor FN20J-PG	150120874	1
28	Electric Box Cover 1	20102848	1
29	Covering Plate2	20122075	1
30	Terminal Board	42010262	1
31	Electric Box	20112064	1
32	Main PCB M518F2AJ	30035566	1
33	Jumping Connector	4202300130	1
34	Transformer 41X26.5G	43110236	1
35	Power Cable	400220112	1
36	Connecting Cable	400205401	1
37	Signal Cable	40020536	1

The above data are subject to be changed without notice.

No.	Description	Part Code		Qty
		GWH09MB-K3NNA3B/I	GWH12MB-K3NNA3B/I	
1	Wall-Mounting Frame	01252013	01252013	1
2	Rear Case	2220245401	2220245401	1
3	Evaporator Assy	01002574	0100256401	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	30510041	30510041	1
17	Decorate piece	22432230	22432230	1
18	Receiver board	39010016	39010016	1
19	Display board	30565007	30565007	1
20	Front Panel	20012122	20012122	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	20122103	20122103	1
29	Covering Plate2	20122075	20122075	1
30	Terminal Board	42010262	42010262	1
31	Electric Box	20112064	20112064	1
32	Main PCB	30035564	30035566	1
33	Jumping Connector	4202300130	4202300130	1
34	Transformer 41X26.5G	43110236	43110236	1
35	Power Cable	400204915	400204911	1
36	Connecting Cable	40020540	400205401	1
37	Signal Cable	40020536	40020536	1

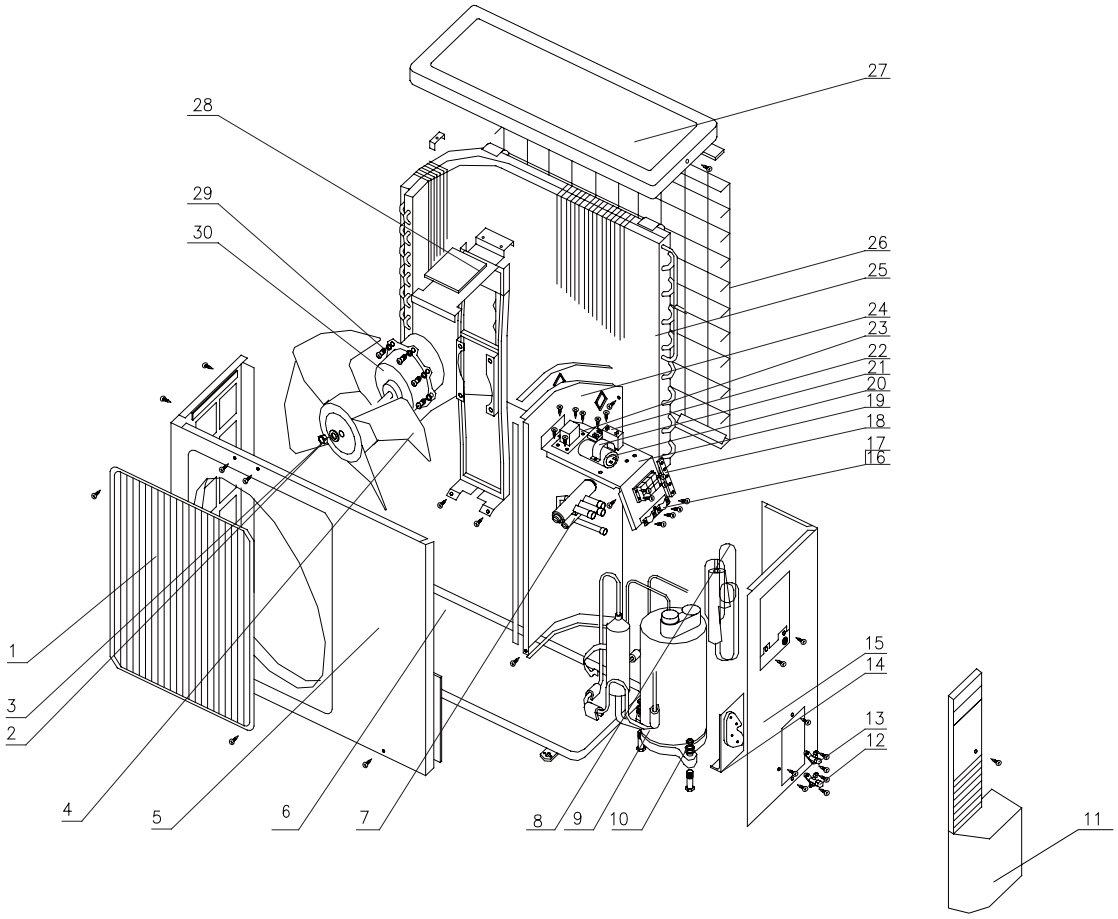
The above data are subject to be changed without notice.

No.	Description	Part Code	Qty
		GWH12MB-K3NNA4A/I	
1	Wall-Mounting Frame	01252013	1
2	Rear Case	2220245401	1
3	Evaporator Assy	0100255802	1
4	Evaporator Support	24212091	1
5	Cross Flow Fan	10352017	1
6	Bearing cushion rubber base	26152022	1
7	Ring of Bearing	76512203	1
8	Volute tongue	26112163	1
9	Left Axile Bush	10512037	1
10	Crank	10582070	1
11	Axile Bush	10542008	1
12	Swing Louver1	10512156	1
13	Swing Louver2	10512155	1
14	Front Case	20012123	1
15	Filter	1112220401	2
16	Remote Control YB1FA	30510041	1
17	Decorate Piece	2019223601	1
18	Double-side glue	55112004	1
19	Receiver Board D5183B	30565012	1
20	Front Panel	20012153	1
21	Screw Cover	24252016	1
22	Guide Louver	10512157	1
23	Wire Clamp	71010003	1
24	Rear Clamp	26112164	1
25	Motor MP24AA	1521210801	1
26	Motor Clamp	26112161	1
27	Motor FN20J-PG	150120874	1
28	Electric Box Cover 1	20102848	1
29	Covering Plate2	20122075	1
30	Terminal Board	42010262	1
31	Electric Box	20112064	1
32	Main PCB M518F2AJ	30035566	1
33	Jumping Connector	4202300130	1
34	Transformer 41X26.5G	43110236	1
35	Power Cable	400220112	1
36	Connecting Cable	400205401	1
37	Signal Cable	40020536	1

The above data are subject to be changed without notice.

8.9 Explosive view of outdoor unit

Applicable to: GWH12MB-K3NNA1A/O、GWH12MB-K3NNA2A/O、GWH12MB-K3NNA3A/O、GWH12MB-K3NNA4A/O



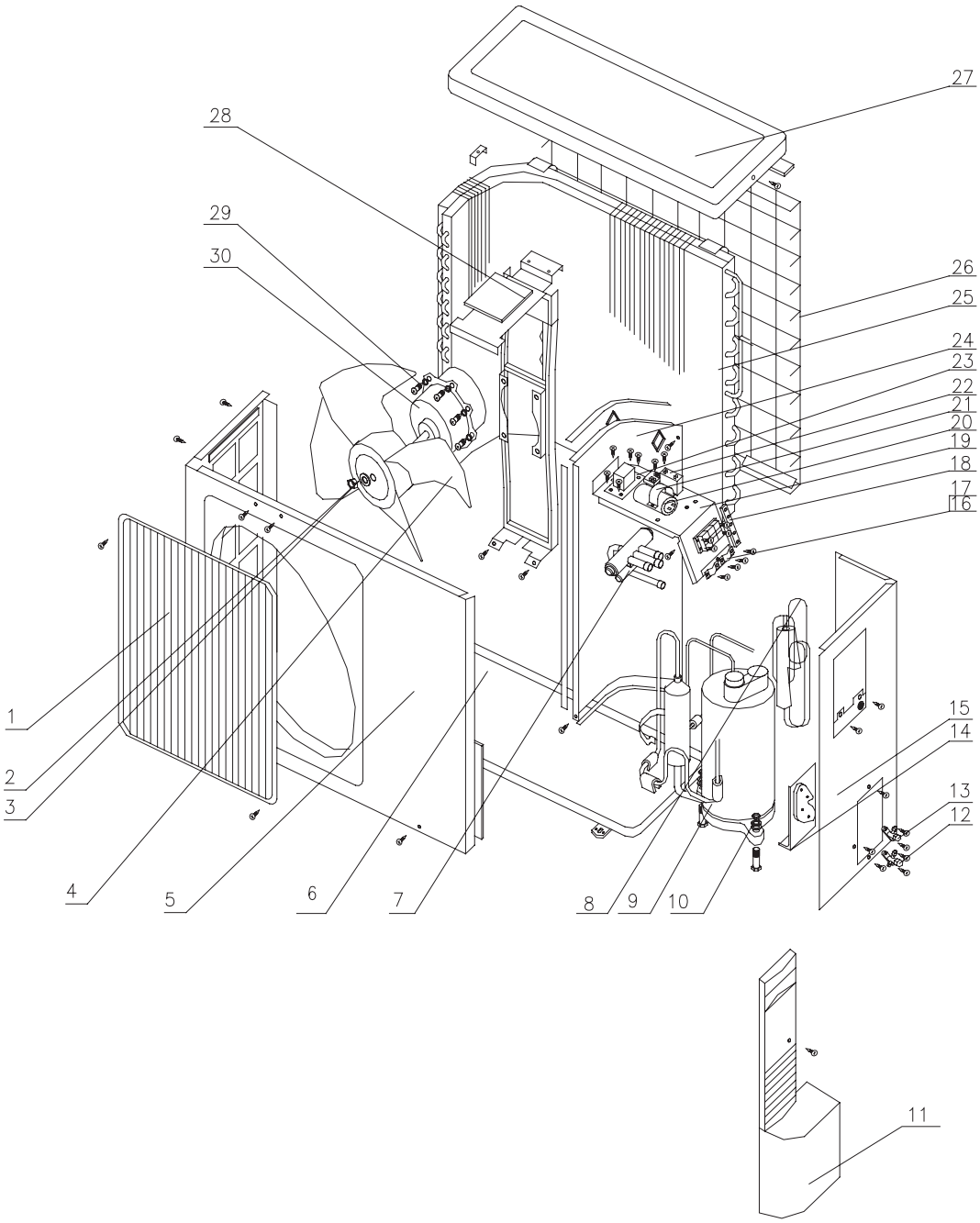
8.10 Spare Parts list of outdoor unit

No.	Description	Part Code	Qty
		GWH12MB-K3NNA1A/O、GWH12MB-K3NNA2A/O、GWH12MB-K3NNA3A/O、GWH12MB-K3NNA4A/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	0120322910	1
7	4-way Valve	430004032	1
8	Capillary Assy	0300360018	1
9	Compressor QXA-133uB030(GREE)	00120223	1
10	Nut with Washer M6	70310011	3
11	Handle	26233433	1
12	Valve 1/4"	07100003	1
13	Valve 1/2"	07100006	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 CBB65 30uF/450V(440V)	33000018	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	011350051	1
26	Rear Grill	11123205	1
27	Top cover plate	01253443	1
28	Motor Support	017030511	1
29	Screw	70140259	4
30	Motor FW30K	15013067	1

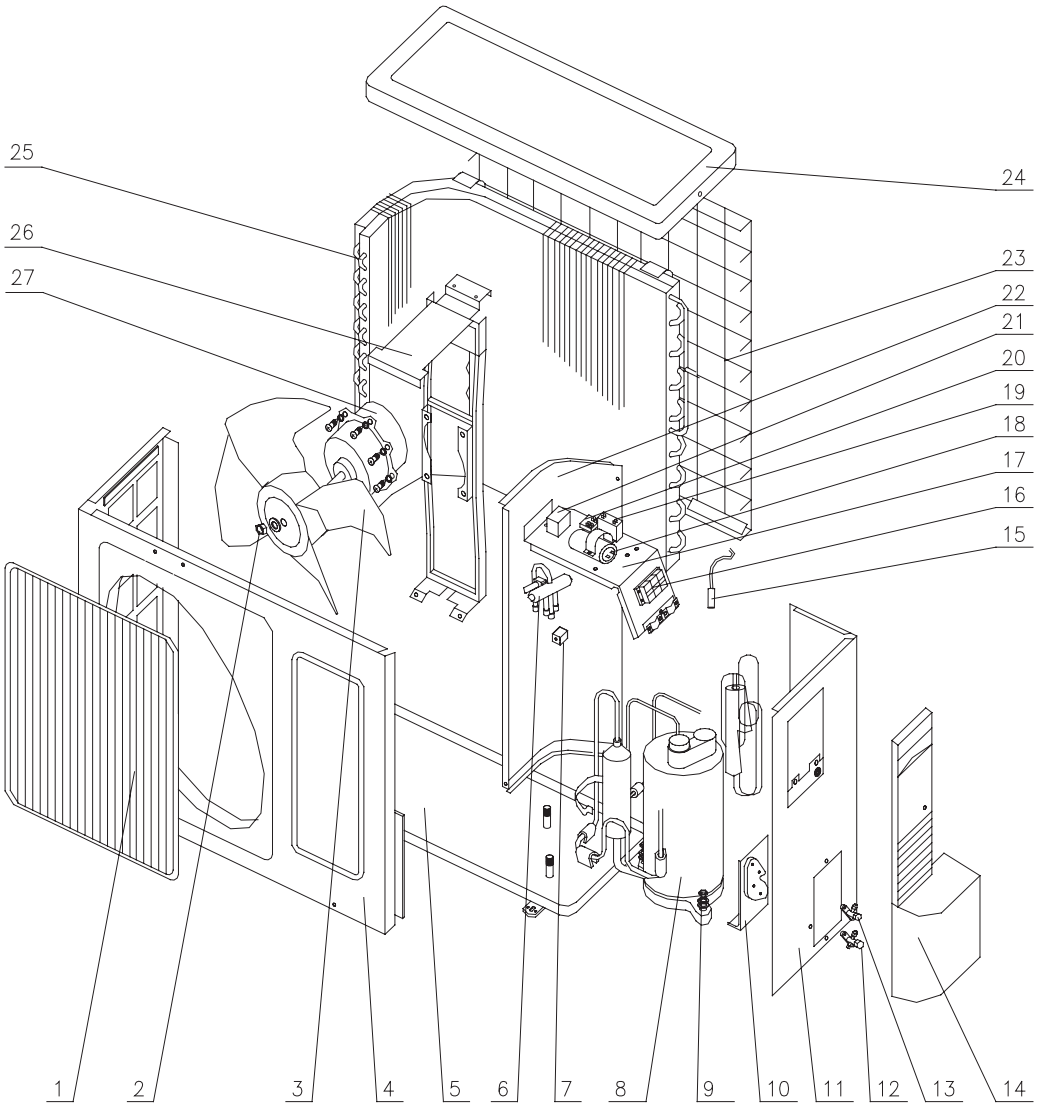
The above data are subject to be changed without notice.

8.11 Explosive view of outdoor unit

Applicable to: GWH09MB-K3NNA3B/O



Applicable to: GWH12MB-K3NNA3B/O



8.12 Spare Parts list of outdoor unit

NO.	Description	Part Code	Qty
		GWH09MB-K3NNA3B/O	
1	Front Grill	22413431	1
2	Nut M6	70310131	1
3	Washer	70410224	1
4	Axial Flow Fan	10333004	1
5	Front Plate	015330124	1
6	Metal Base	0120365901P	1
7	4-way Valve	430004022	1
8	Capillary Assy	03103943	1
9	Compressor	00103082	1
10	Nut with Washer M6	70310014	3
11	Handle	26233433	1
12	Valve 1/4"	07100003	1
13	Valve 1/2"	07100005	1
14	Valve Support	01713041	1
15	Right Side Plate Assy	0130200403	1
16	Wire Clamp	71010103	2
17	Insulation Gasket C	70410523	1
18	Terminal Board	42010265	1
19	Electric Plate	0140386101	1
20	Capacitor	33000018	1
21	Capacitor clamp	02143401	1
22	Capacitor	33010025	1
23	Terminal Board 1	42011147	1
24	Isolation Sheet	012334172	1
25	Condenser Assy	01133123	1
26	Rear Grill	11123205	1
27	Top cover plate	01253443	1
28	Motor Support	017030521	1
29	Screw	70140391	2
30	Motor FW30K	150130671	1

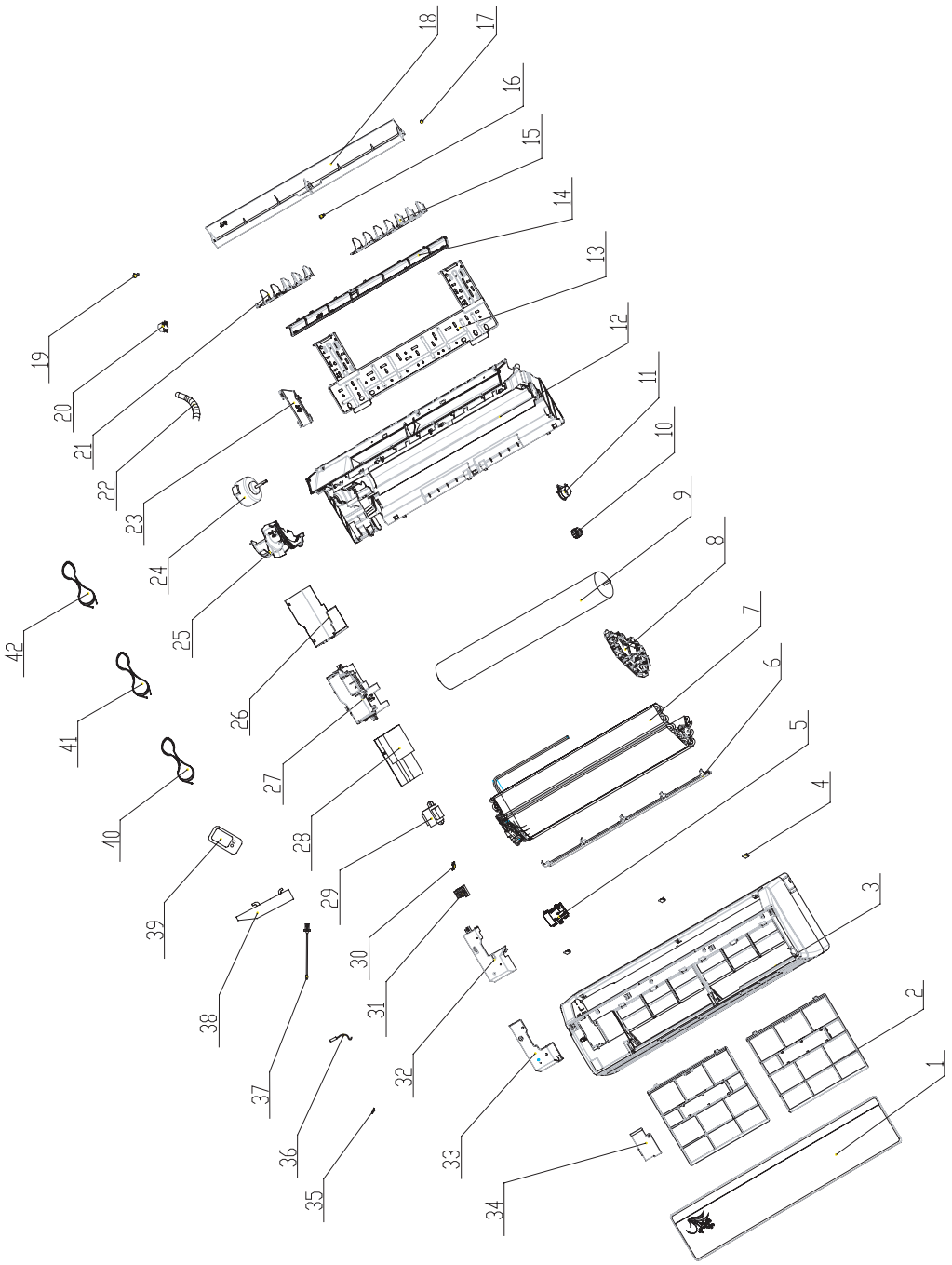
The above data are subject to be changed without notice.

NO.	Description	Part Code	Qty
		GWH12MB-K3NNA3B/O	
1	Front Grill	22413431	1
2	Nut M6	70310132	1
3	Axial Flow Fan	10333502	1
4	Front Plate	01535002	1
5	Metal Base	012032439	1
6	4-way Valve	430004032	1
7	4-way Valve Coil	03123066	1
8	Compressor	00102704	1
9	Nut with Washer	70310011	3
10	Valve Support	01713041	1
11	Right Side Plate	01305028	1
12	Valve 1/2"	07100006	1
13	Valve 1/4"	07100003	1
14	Handle	26233043	1
15	——	——	——
16	Terminal Board	42010265	1
17	Electric Plate Assy	02143401	1
18	Capacitor	33000018	1
19	Capacitor	33010079	1
20	Terminal Board	42011147	1
21	——	——	——
22	Isolation Sheet	01235005	1
23	Rear Grill	01475003	1
24	Top cover plate	01253443	1
25	Condenser Assy	01113420	1
26	Motor Support	0170511001	1
27	Motor	70310084	4

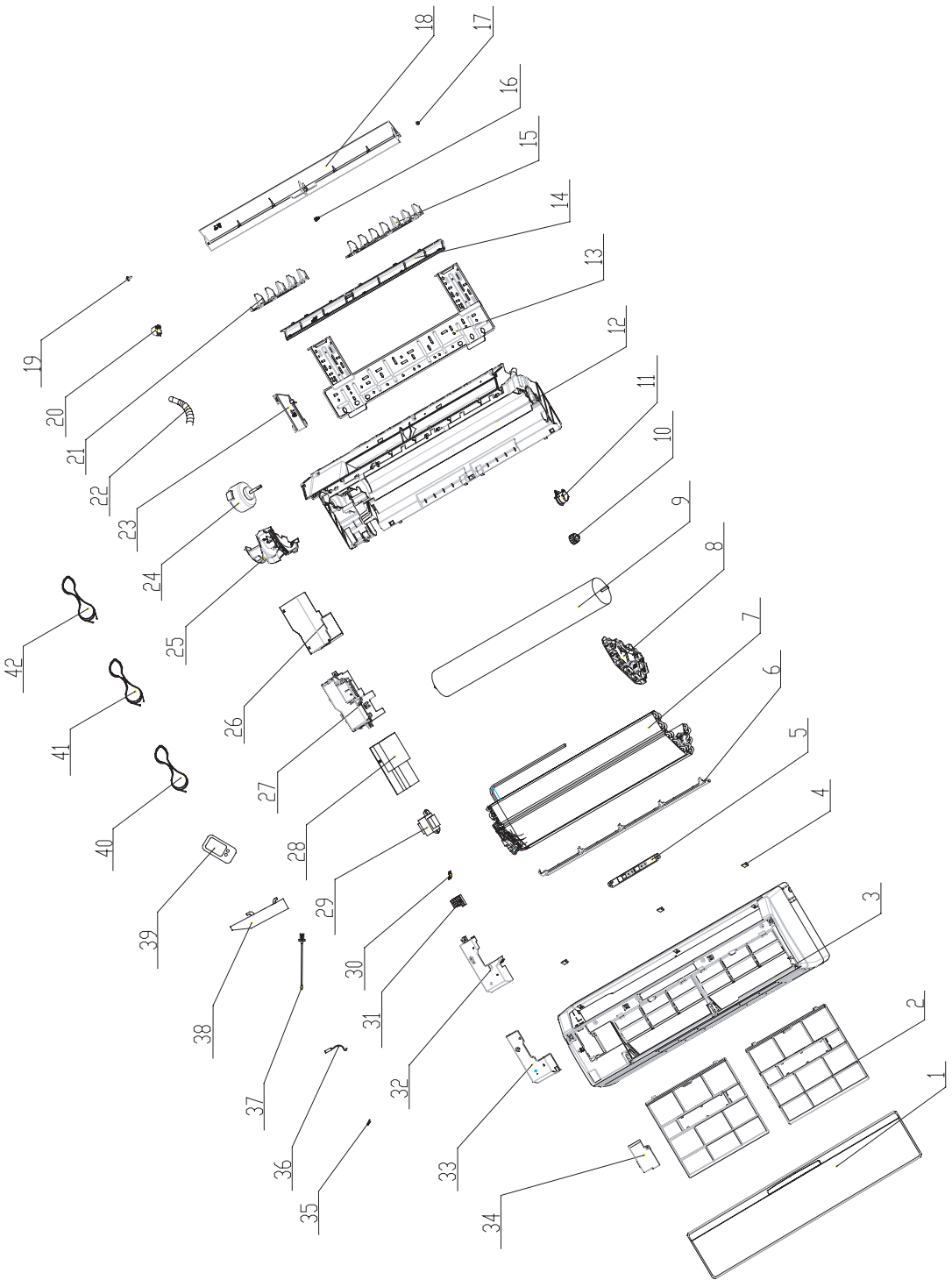
The above data are subject to be changed without notice.

8.13 Explosive view of indoor unit

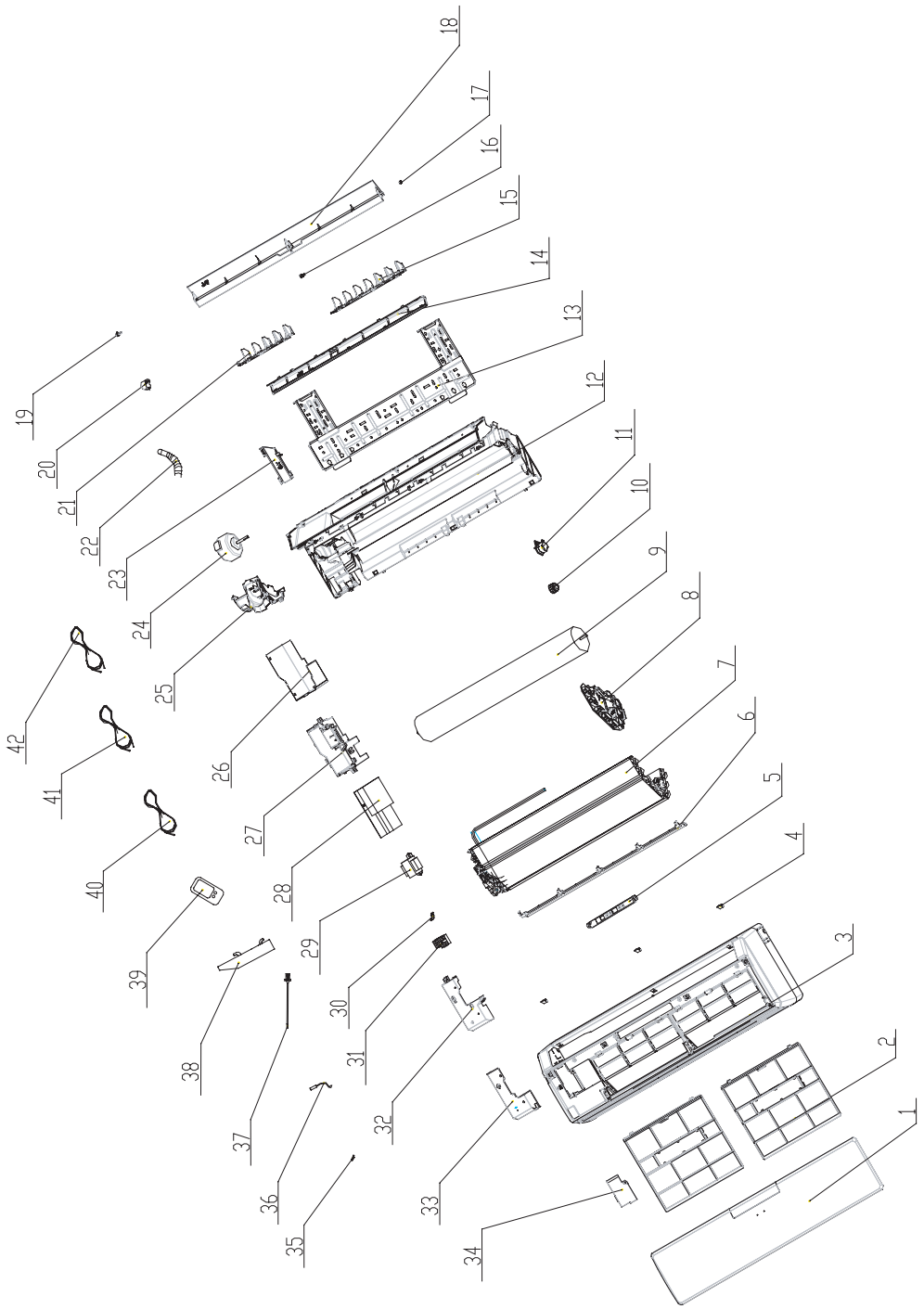
Applicable to: GWH18MC-K3NNA1A/I



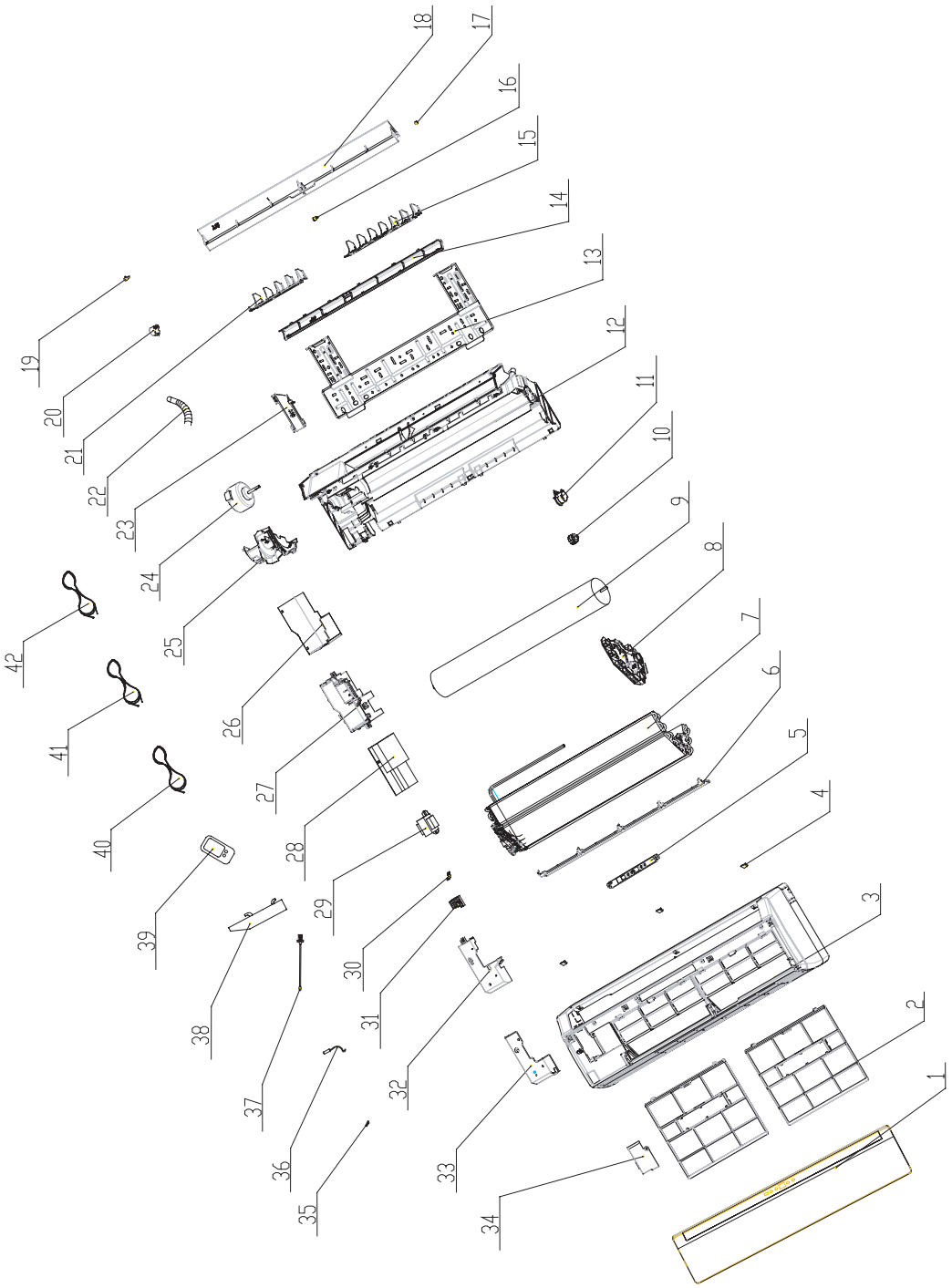
Applicable to: GWH18MC-K3NNA2A/I



Applicable to: GWH18MC-K3NNA3A/I



Applicable to: GWH18MC-K3NNA4A/I



8.14 Spare Parts list of indoor unit

No.	Description	Part Code	Qty
		GWH18MC-K3NNA1A/I	
1	Front Panel Case	20012281	1
2	Filter	1112208901	2
3	Front Case	20012282	1
4	Screw Cover	24252016	3
5	Display Board	30565008	1
6	EvaporatorQuickset	26112179	1
7	Evaporator Assy	0100274101	1
8	Evaporator Support	24212100	1
9	Cross Flow Fan	10352019	1
10	O-Gasket of Cross Fan Bearing	76512203	1
11	Bearing cushion rubber base	26152022	1
12	Rear Case	22202109	1
13	Wall-Mounting Frame	01252218	1
14	Helicoid tongue	26112177	1
15	Air Louver	10512116	1
16	Axile Bush	10542008	1
17	Left Axile Bush	10512037	1
18	Guide Louver	10512115	1
19	Crankshaft	10582070	1
20	Stepping Motor MP28VB	15012086	1
21	Air Louver	10512117	1
22	Drainage Pipe	05230014	1
23	Pipe Clamp	26112164	1
24	Motor FN20V-PG	15012113	1
25	Motor Clamp	26112178	1
26	Lower Shield of Electric Box	01592069	1
27	Electric Box	20112078	1
28	Main PCB	30135230	1
29	Transformer 57X25C	43110237	1
30	Wire Clamp	71010103	1
31	Terminal Board	4201026201	1
32	Electric Box Cover 1	20122099	1
33	Upper Shield of Electric Box	01592070	1
34	Electric Box Cover 2	20122075	1
35	Sensor Insert	42020063	1
36	Tube Sensor 20k	390000595	1
37	Room Sensor 15k	390000451	1
38	Water-blocking Sheet	76912106	1
39	Remote Controller YB1FA	30510041	1
40	Connecting Cable	4002053603	1
41	Connecting Cable	400205401	1
42	Power Cord	400203253	1

The above data are subject to be changed without notice.

No.	Description	Part Code	Qty
		GWH18MC-K3NNA2A/I	
1	Front Panel Case	20012283	1
2	Filter	1112208901	2
3	Front Case	20012250	1
4	Screw Cover	24252016	3
5	Display Board	30565039	1
6	EvaporatorQuickset	26112179	1
7	Evaporator Assy	0100274101	1
8	Evaporator Support	24212100	1
9	Cross Flow Fan	10352019	1
10	O-Gasket of Cross Fan Bearing	76512203	1
11	Bearing cushion rubber base	26152022	1
12	Rear Case	22202109	1
13	Wall-Mounting Frame	01252218	1
14	Helicoid tongue	26112177	1
15	Air Louver	10512116	1
16	Axile Bush	10542008	1
17	Left Axile Bush	10512037	1
18	Guide Louver	10512115	1
19	Crankshaft	10582070	1
20	Stepping Motor MP28VB	15012086	1
21	Air Louver	10512117	1
22	Drainage Pipe	05230014	1
23	Pipe Clamp	26112164	1
24	Motor FN20V-PG	15012113	1
25	Motor Clamp	26112178	1
26	Lower Shield of Electric Box	01592069	1
27	Electric Box	20112078	1
28	Main PCB	30135228	1
29	Transformer 57X25C	43110237	1
30	Wire Clamp	71010103	1
31	Terminal Board	4201026201	1
32	Electric Box Cover 1	20122099	1
33	Upper Shield of Electric Box	01592070	1
34	Electric Box Cover 2	20122075	1
35	Sensor Insert	42020063	1
36	Tube Sensor 20k	390000595	1
37	Room Sensor 15k	390000451	1
38	Water-blocking Sheet	76912106	1
39	Remote Controller YB1FA	30510041	1
40	Connecting Cable	4002053603	1
41	Connecting Cable	400205401	1
42	Power Cord	400203253	1

The above data are subject to be changed without notice.

No.	Description	Part Code	Qty
		GWH18MC-K3NNA3A/I	
1	Front Panel Case	20012260	1
2	Filter	11122089	2
3	Front Case	20012250	1
4	Screw Cover	24252016	3
5	Display Board	30565007	1
6	EvaporatorQuickset	26112179	1
7	Evaporator Assy	0100274101	1
8	Evaporator Support	24212100	1
9	Cross Flow Fan	10352019	1
10	O-Gasket of Cross Fan Bearing	76512203	1
11	Bearing cushion rubber base	26152022	1
12	Rear Case	22202109	1
13	Wall-Mounting Frame	01252218	1
14	Helicoid tongue	26112177	1
15	Air Louver	10512116	1
16	Axile Bush	10542008	1
17	Left Axile Bush	10512037	1
18	Guide Louver	10512115	1
19	Crankshaft	10582070	1
20	Stepping Motor MP28VB	15012086	1
21	Air Louver	10512117	1
22	Drainage Pipe	05230014	1
23	Pipe Clamp	26112164	1
24	Motor FN20V-PG	15012113	1
25	Motor Clamp	26112178	1
26	Lower Shield of Electric Box	01592069	1
27	Electric Box	20112078	1
28	Main PCB	30135228	1
29	Transformer 57X25C	43110237	1
30	Wire Clamp	71010103	1
31	Terminal Board	4201026201	1
32	Electric Box Cover 1	20122099	1
33	Upper Shield of Electric Box	01592070	1
34	Electric Box Cover 2	20122075	1
35	Sensor Insert	42020063	1
36	Tube Sensor 20k	390000595	1
37	Room Sensor 15k	390000451	1
38	Water-blocking Sheet	76912106	1
39	Remote Controller YB1FA	30510041	1
40	Connecting Cable	4002053603	1
41	Connecting Cable	400205401	1
42	Power Cord	400203253	1

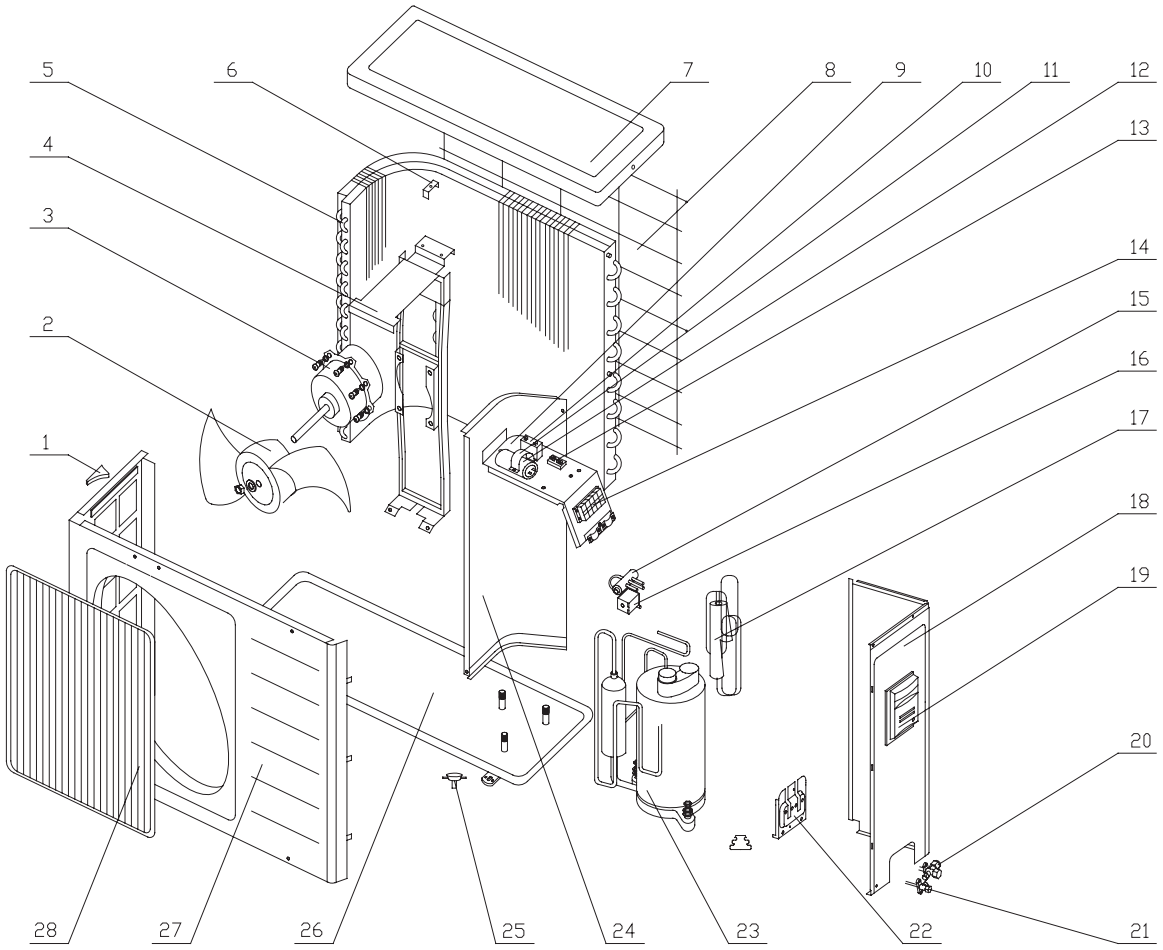
The above data are subject to be changed without notice.

No.	Description	Part Code	Qty
		GWH18MC-K3NNA4A/I	
1	Front Panel Case	20012280	1
2	Filter	1112208901	2
3	Front Case	20012250	1
4	Screw Cover	24252016	3
5	Display Board	30565039	1
6	EvaporatorQuickset	26112179	1
7	Evaporator Assy	0100274101	1
8	Evaporator Support	24212100	1
9	Cross Flow Fan	10352019	1
10	O-Gasket of Cross Fan Bearing	76512203	1
11	Bearing cushion rubber base	26152022	1
12	Rear Case	22202109	1
13	Wall-Mounting Frame	01252218	1
14	Helicoid tongue	26112177	1
15	Air Louver	10512116	1
16	Axile Bush	10542008	1
17	Left Axile Bush	10512037	1
18	Guide Louver	10512115	1
19	Crankshaft	10582070	1
20	Stepping Motor MP28VB	15012086	1
21	Air Louver	10512117	1
22	Drainage Pipe	05230014	1
23	Pipe Clamp	26112164	1
24	Motor FN20V-PG	15012113	1
25	Motor Clamp	26112178	1
26	Lower Shield of Electric Box	01592069	1
27	Electric Box	20112078	1
28	Main PCB	30135228	1
29	Transformer 57X25C	43110237	1
30	Wire Clamp	71010103	1
31	Terminal Board	4201026201	1
32	Electric Box Cover 1	20122099	1
33	Upper Shield of Electric Box	01592070	1
34	Electric Box Cover 2	20122075	1
35	Sensor Insert	42020063	1
36	Tube Sensor 20k	390000595	1
37	Room Sensor 15k	390000451	1
38	Water-blocking Sheet	76912106	1
39	Remote Controller YB1FA	30510041	1
40	Connecting Cable	4002053603	1
41	Connecting Cable	400205401	1
42	Power Cord	400203253	1

The above data are subject to be changed without notice.

8.15 Explosive view of outdoor unit

Applicable to: GWH18MC-K3NNA1A/O、GWH18MC-K3NNA2A/O、GWH18MC-K3NNA3A/O、GWH18MC-K3NNA4A/O



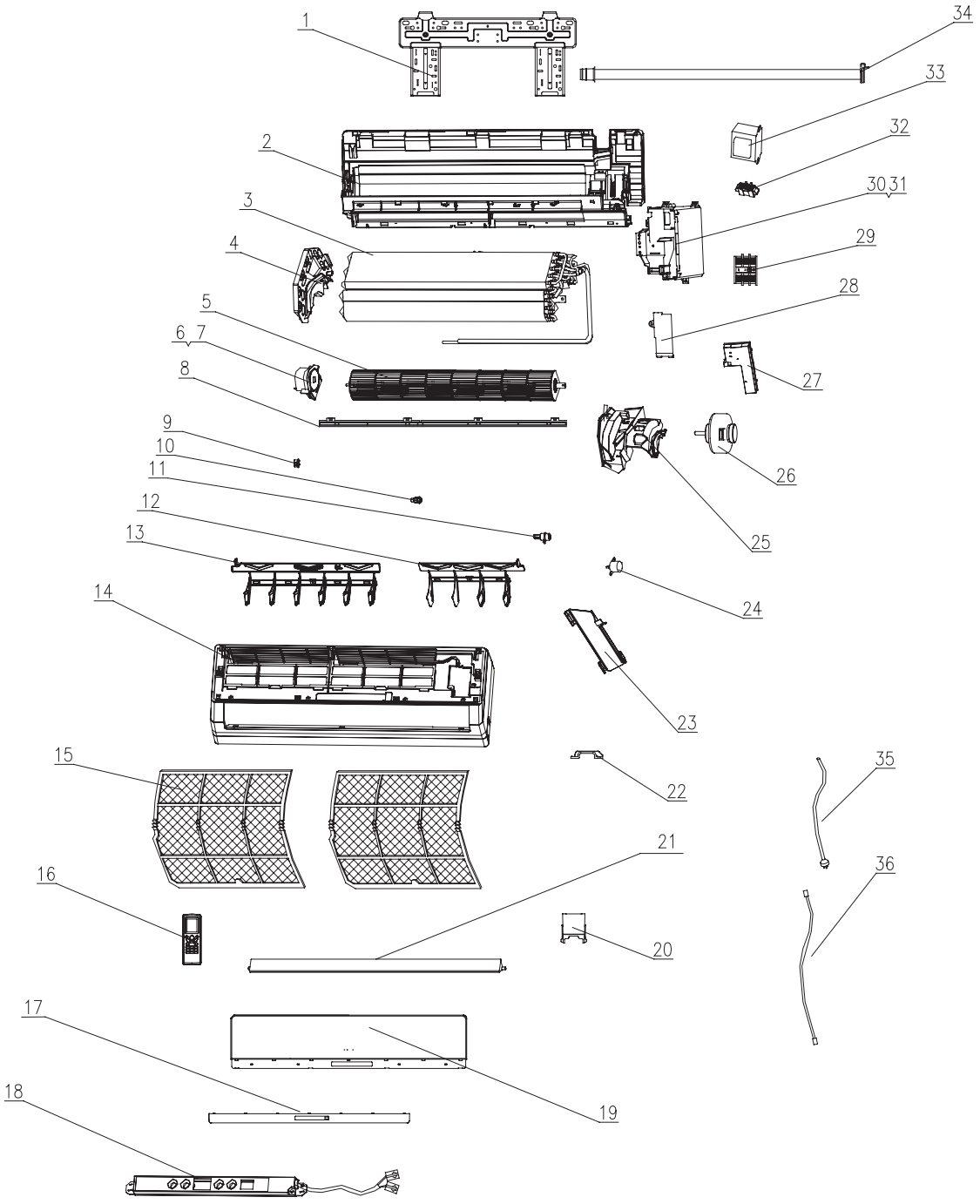
8.16 Spare Parts list of indoor unit

No.	Description	Part Code	Qty
		GWH18MC-K3NNA1A/O、GWH18MC-K3NNA2A/O、GWH18MC-K3NNA3A/O、GWH18MC-K3NNA4A/O	
1	Handle	26235401	1
2	Axial Flow Fan	10333426	1
3	Motor LW48B	15013070	1
4	Motor Support	01703059	1
5	Condenser Assy	01113238	1
6	Condenser Clamp	01175202	2
7	Top Cover	01255001	1
8	Rear grill	01475004	1
9	Electrical Box	01405039	1
10	Capacitor CBB61 3.5uF/450V	33010010	1
11	Capacitor Clamp	02141375	1
12	Capacitor C4 CBB65 60μF	33000039	1
13	Terminal Board 2-8	42011147	1
14	Terminal Board	42010265	1
15	4-way Valve Assy	430004032	1
16	4-way valve coil	430004002	1
17	Capillary Assy	03103780	1
18	Rear Side Plate	01305013	1
19	Handle	26235254	1
20	Valve Assy 1/2	07130213	1
21	Valve Assy 1/4	07100003	1
22	Valve support	01713076	1
23	Compressor ASH210SV-C8LU	00103007	1
	Overload Protector	built in	/
	Compressor Gasket	76710202	3
24	Mid Clapboard	01233035	1
25	Drainage Connecter	06123401	1
26	Chassis	0120362602P	1
27	Front Side Plate	01305015	1
28	Front Grill	22415001	1

The above data are subject to be changed without notice.

8.17 Explosive view of indoor unit

Applicable to: GWH21(09+12)MB-K3NNA4A:12K、GWH24(12X2)MB-K3NNA4A:12K



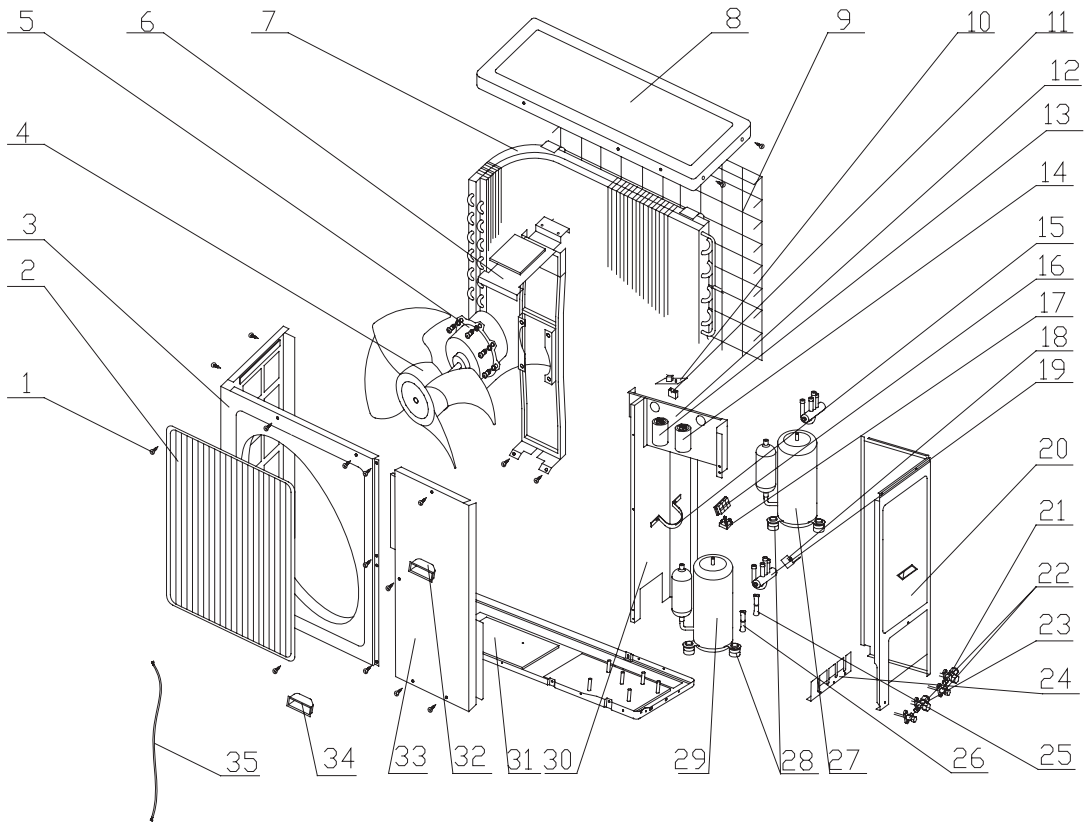
8.18 Spare Parts list of indoor unit

No.	Description	Part Code	Qty
		GWH21(09+12)MB-K3NNA4A内机12K；GWH24(12X2)MB-K3NNA4内机12K	
1	Wall-Mounting Frame	01252013	1
2	Rear Case	2220210301	1
3	Evaporator Assy	0100256401	1
4	Evaporator Support	24212091	1
5	Cross Flow Fan	10352017	1
6	Ring of Bearing	76512051	1
7	Bearing cushion rubber base	76512203	1
8	Volute tongue	26112163	1
9	Left Axile Bush	10512037	1
10	Crank	10582070	1
11	Axile Bush	10542008	1
12	Swing Louver1	10512156	1
13	Swing Louver2	10512155	1
14	Front Case	20012139	1
15	Filter	1112220401	2
16	Remote Control	30510041	1
17	Decorate Piece	2019223601	1
18	Receiver Board	30565012	1
19	Front Panel	20012153	1
20	Screw Cover	24252016	1
21	Guide Louver	10512157	1
22	Wire Clamp	71010003	1
23	Rear Clamp	26112164	1
24	Motor MP24AA	1521210801	1
25	Motor Clamp	26112161	1
26	Motor	1521210801	1
27	Electric Box Cover 1	20102848	1
28	Covering Plate2	20122075	1
29	Terminal Board	4201026201	1
30	Electric Box	20202071	1
31	Main PCB	30135248	1
32	Jumping Connector	4202300130	1
33	Transformer	43110236	1
34	Power Cable	0523001401	1
35	Connecting Cable	40020536	1
36	Signal Cable	40020538	1

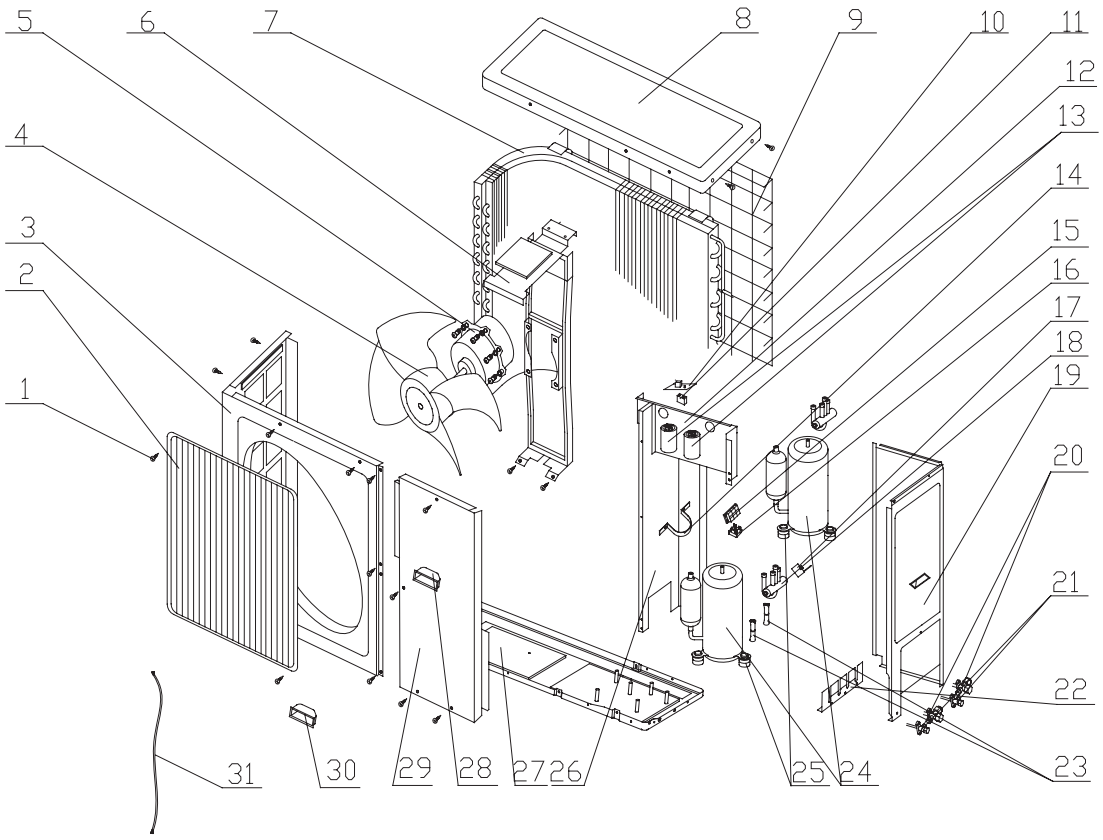
The above data are subject to be changed without notice.

8.19 Explosive view of outdoor unit

Applicable to: GWH21(09+12)MB-K3NNA4A/O



Applicable to: GWH24(12X2)MB-K3NNA4A/O



8.20 Spare Parts list of outdoor unit

No.	Description	Part Code	Qty
		GWH21(09+12)MB-K3NNA4A/O	
1	/	/	/
2	Front Grill	22414102	1
3	Front Plate	01433017P	1
4	Axial Flow Fan	10338731	1
5	Motor LW68A	1501542103	1
6	Motor Support	01705204	1
7	Condenser Assy	01103995	1
8	Top Cover	01255262	1
9	Rear Grill	01473028	1
10	Defrosting PCB 82AHS	30038001	1
11	Capacitor (3.5uF/450VAC)	33010010	1
12	Electric Box	014031945	1
13	Capacitor CBB65 25uF/450V(440V)	33000017	1
14	Capacitor (30uF/450VAC)	33000018	1
15	Capacitor Clamp B	02143013	1
16	Terminal Board	42011147	1
17	Terminal Board	420101941	2
18	4-way Valve Coil	430004002	2
19	4-Way Valve	430004022	2
20	Rear Side Plate	01303021	1
21	Valve 3/8"	07130209	1
22	Valve 1/4"	07130208	2
23	Valve 1/2"	07130210	1
24	Valve Support	01713027	1
25	On Way Valve	0713010301	1
26	On Way Valve	0713010303	1
27	compressor RN145VHEMC	00103038	1
28	Compressor Gasket	76713012	6
29	compressor KN104VGMMC	00103084	1
30	Mid Clapboard	012330241	1
31	Metal Base	012033692	1
32	Handle	26235253	2
33	Left Handle	26235401	1
34	Front Side Plate	01303018	1
35	Connecting Cable	40020318	1

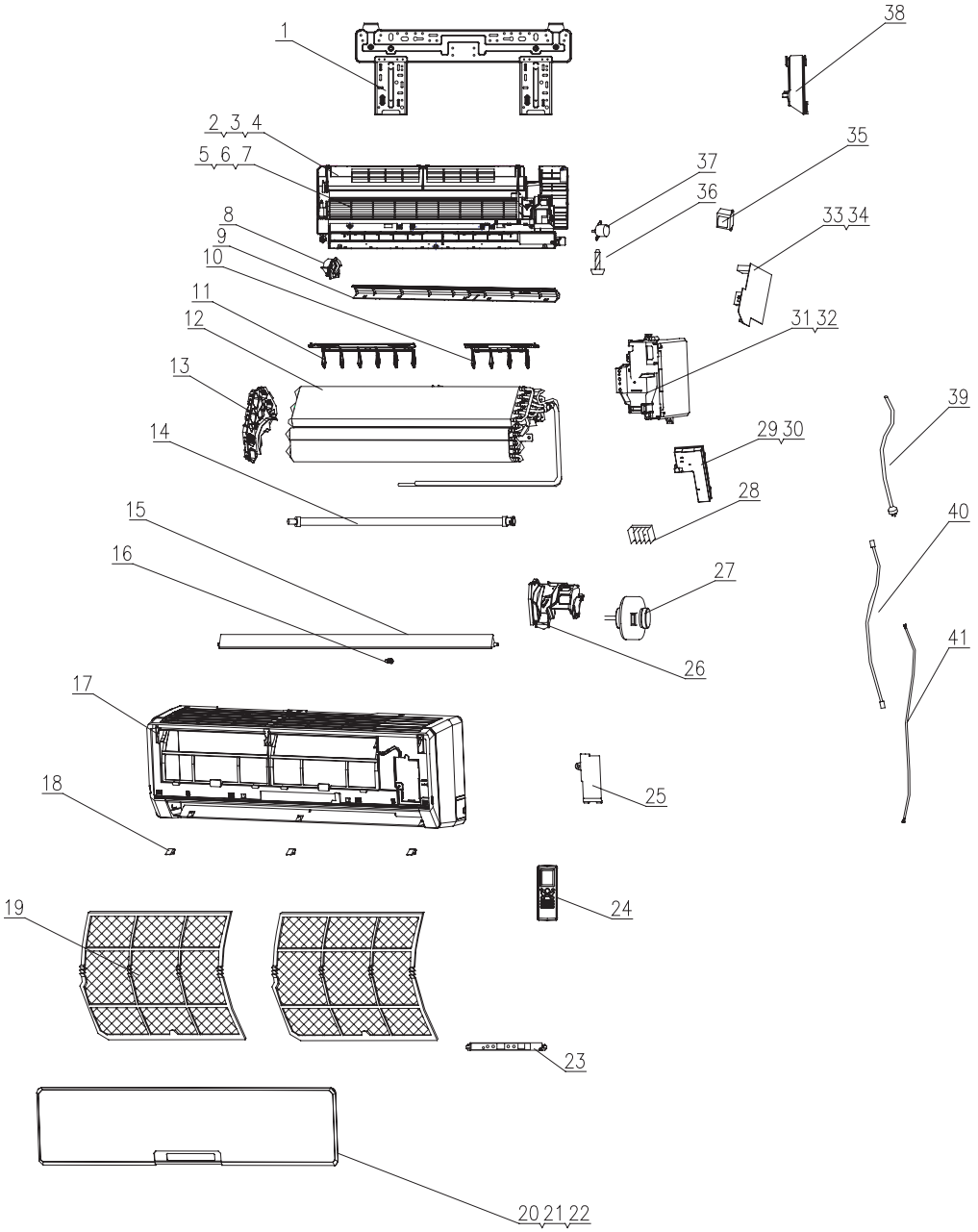
The above data are subject to be changed without notice.

No.	Description	Part Code	Qty
		GWH24(12X2)MB-K3NNA4A/O	
1	/	/	/
2	Front Grill	22414102	1
3	Front Plate	01433017P	1
4	Axial Flow Fan	10338731	1
5	Motor LW68A	1501542103	1
6	Motor Support	01705204	1
7	Condenser Assy	01113019	1
8	Top Cover	01255262	1
9	Rear Grill	01473028	1
10	Defrosting PCB 82AHS	30038001	1
11	Capacitor (3.5uF/450VAC)	33010010	1
12	Electric Box	014031946	1
13	Capacitor (30uF/450VAC)	33000018	2
14	Capacitor Clamp B	02143013	1
15	Terminal Board	42011147	1
16	Terminal Board	420101941	2
17	4-way Valve Coil	430004002	2
18	4-Way Valve	430004022	2
19	Rear Side Plate	01303021	1
20	Valve 1/2"	07130210	2
21	Valve 1/4"	07130208	2
22	Valve Support	01713027	1
23	On Way Valve	0713010301	2
24	compressor RN135VHEMC	00103053	2
25	Compressor Gasket	76713012	6
26	Mid Clapboard	012330241	1
27	Metal Base	01203733P	1
28	Handle	26235253	2
29	Front Side Plate	01303018	1
30	Left Handle	26235401	1
31	Connecting Cable	40020318	1

The above data are subject to be changed without notice.

8.21 Explosive view and spare Parts list of indoor unit

Applicable to: GWH24MD-K3NNA2A/I、GWH24MD-K3NNA3A/I、GWH24MD-K3NNA4A/I、GWH24MD-K3NNA3B/I、GWC09MA-K3NNA3C/I、GWH09MA-K3NNA3C/I、GWC09MA-K3NNA2A/I、GWC24MD-K3NNA2A/I、GWC24MD-K3NNA3A/I、GWC24MD-K3NNA4A/I、GWC09MA-K3NNA5A/I (SHARP)、GWC24MD-K3NNA8A/I、GWH24MD-K3NNA2B/I、GWH24MD-K3NNA4B/I、GWH24MD-K3NNA4B/I (Suply power by outdoor unit):



No.	Description	Part Code				Qty
		GWH24MD-K3NNA4A/I	GWH24MD-K3NNA2A/I	GWH24MD-K3NNA3A/I	GWH24MD-K3NNA3B/I	
1	Wall-Mounting Frame	01252004	'01252004	'01252004	'01252004	1
2	Rear Case Assy	22202117	'22202117	'22202117	'22202117	1
3	Axile Bush	10512037	'10512037	'10512037	'10512037	1
4	Crank	10582070	'10582070	'10582070	'10582070	1
5	Cross Flow Fan	10352030	'10352030	'10352030	'10352030	1
6	O-Gasket sub-assy of Bearing	76512051	'76512051	'76512051	'76512051	1
7	O-Gasket of Cross Fan Bearing	'76512203	'76512203	'76512203	'76512203	1
8	Ring of Bearing	'26152025	'26152025	'26152025	'26152025	1
9	Helicoid tongue	'26112187	'26112187	'26112187	'26112187	1
10	Air Louver 2	/	/	/	/	/
11	Air Louver 1	'10512159	'10512159	'10512159	'10512159	3
12	Evaporator Assy	'01002572	'01002572	'01002572	'01002572	1
13	Evaporator Support	'24212103	'24212103	'24212103	'24212103	1
14	Drainage hose	'0523001405	'0523001405	'0523001405	'0523001405	1
15	Guide Louver	'10512118	'10512118	'10512118	'10512118	1
16	Axile Bush	'10542008	'10542008	'10542008	'10542008	2
17	Front Case	'20012295	'20012295	'20012295	'20012295	1
18	Screw Cover	'24252016	'24252016	'24252016	'24252016	3
19	Filter Sub-Assy	'11122091	'11122091	'11122091	'11122091	2
20	Front Panel Assy	'20012370	'20012369	'20012328	'20012328	1
21	Front Panel	'20012304S	'20012306S	'20012296S	'20012296S	1
22	Receiver Window	'20192294	/	'22432173	'22432173	1
23	Display Board	'30565039	'30565039	30565038	'30565038	1
24	Remote Controller	'30510041	'30510041	'30510041	'30510041	1
25	Electric Box Cover2	'20112081	'20112081	'20112081	'20112081	1
26	Motor Press Plate	'26112184	'26112184	'26112184	'26112184	1
27	Fan Motor	'15012098	'15012098	'15012098	'15012098	1
28	Terminal Board	'4201026201	'4201026201	'4201026201	'4201026201	1
29	Electric Box Cover 1	'20122099	'20122099	'20122099	'20122099	1
30	Shield cover of Electric Box	'01592070	'01592070	'01592070	'01592070	1
31	Electric Box Assy	'2020216303	'2020216303	'20202163	'20012329	1
32	Electric Box	'20112078	'20112078	'20112078	'20112078	1
33	Main Board	'30135297	'30135297	'30135297	'30135297	1
34	Jumper	'4202300105	'4202300105	'4202300105	'4202300105	1
35	Transformer	'43110237	'43110237	'43110237	'43110237	1
36	Rubber Plug (Water Tray)	'76712012	'76712012	'76712012	'76712012	1
37	Stepping Motor	'15213001	'15213001	'15213001	'15213001	1
38	Pipe Clamp	'26112188	'26112188	'26112188	'26112188	1
39	Power Cable	'400203253	'400203253	'400203253	'400204912	1
40	Connecting Cable	'400205382	'4002053603	'4002053603	'4002053603	1
41	Connecting Cable	'4002053603	'400205382	'400205382	'400205382	1

The above data are subject to be changed without notice.

No.	Description	Part Code				Qty
		GWC09MA-K3NNA3C/I	GWH09MA-K3NNA3C/I	GWC09MA-K3NNA2A/I	GWC24MD-K3NNA2A/I、GWC24MD-K3NNA3A/I、GWC24MD-K3NNA4A/I	
1	Wall-Mounting Frame	'01252015	'01252015	'01252015	01252004	1
2	Rear Case Assy	'2220210101	'2220210101	'2220210101	22202117	1
3	Axile Bush	'10542008	'10542704	'10542704	10542008	1
4	Crank	'10582070	'10582070	'10582070	10582070	1
5	Cross Flow Fan	'10352018	'10352018	'10352018	10352030	1
6	O-Gasket sub-assy of Bearing	'76512051	'76512051	'76512051	76512051	1
7	O-Gasket of Cross Fan Bearing	'76512203	'76512203	'76512203	76512203	1
8	Ring of Bearing	'26152022	'26152022	'26152022	26152025	1
9	Helicoid tongue	'26112162	'26112162	'26112162	26112187	1
10	Air Louver 2	'10512114	'10512114	'10512114	/	/
11	Air Louver 1	'10512113	'10512113	'10512113	10512159	3
12	Evaporator Assy	'0100255202	'0100255202	'0100255202	01002572	1
13	Evaporator Support	'24212090	'24212090	'24212090	24212103	1
14	Drainage hose	'0523001405	'0523001405	'0523001405	0523001405	1
15	Guide Louver	'10512111	'10512111	'10512111	10512118	1
16	Axile Bush	'10542704	'10542008	'10542008	10542008	2
17	Front Case	'20012120	'20012120	'20012120	20012295	1
18	Screw Cover	'24252016	'24252016	'24252016	24252016	3
19	Filter Sub-Assy	'11122081	'11122081	'11122081	11122091	2
20	Front Panel Assy	'20012241	'20012241	'2001216401	20012369/20012328/20012370	1
21	Front Panel	/	/	'20012142S	20012306S/20012296S/20012304S	1
22	Receiver Window	/	/	'20192265	/	1
23	Display Board	'30565007	'30565007	'30565039	30565039(A2/A4); 30565038(A3)	1
24	Remote Controller	'30510041	'30510041	'30510041	30510041	1
25	Electric Box Cover2	'20122075	'20122075	'20122075	20112081	1
26	Motor Press Plate	'26112160	'26112160	'26112160	26112184	1
27	Fan Motor	'15012115	'15012115	'15012115	15012098	1
28	Terminal Board	'42010266	'42010262	'42010266	42011233	1
29	Electric Box Cover 1	'20122103	'20122103	'20122103	20122099	1
30	Shield cover of Electric Box	'01412036	'01412036	'01412036	01592070	1
31	Electric Box Assy	'2020203722	'2020203721	'2020203704	'2020216302	1
32	Electric Box	'20112082	'20112082	'20112082	20112078	1
33	Main Board	'30035563	'30035564	'30035565	30135296	1
34	Jumper	'4202300128	'4202300128	'4202300128	4202300105	1
35	Transformer	'43110236	'43110236	'43110236	43110237	1
36	Rubber Plug (Water Tray)	'76712012	'76712012	'76712012	76712012	1
37	Stepping Motor	'1521210801	'1521210801	'1521210801	15213001	1
38	Pipe Clamp	'26112164	'26112164	'26112164	26112188	1
39	Power Cable	'400220113	'400220113	'400220113	400203253	1
40	Connecting Cable	'40020540	'40020540	'40020540	400205382	1
41	Connecting Cable	/	'40020536	/	/	1

The above data are subject to be changed without notice.

NO	Description	Part Code	Qty
		GWC24MD-K3NNA8A/I	
1	Wall Mounting Frame	01252004	1
2	Rear Case assy	22202117	1
3	Axile Bush	10542008	2
4	Crank	10582070	1
5	Cross Flow Fan	10352030	1
6	O-Gasket sub-assy of Bearing	76512051	1
7	O-Gasket of Cross Fan Bearing	76512203	1
8	Ring of Bearing	26152025	1
9	Helicoid tongue	26112187	1
10	Air Louver 2	/	/
11	Air Louver 1	10512159	3
12	Evaporator Assy	01002572	1
13	Evaporator Support	24212103	1
14	Drainage hose	0523001405	1
15	Guide Louver	10512118	1
16	Left Axile Bush	10512037	1
17	Front Case	2001229501	1
18	Screw Cover	24252016	3
19	Filter Sub-Assy	11122091	2
20	Front Panel Assy	20012372	1
21	Front Panel	20012311S	1
22	Receiver Window	22432276	1
23	Display Board	30565043	1
24	Remote Controller	30510041	1
25	Electric Box Cover2	20112081	1
26	Motor Press Plate	26112184	1
27	Fan Motor	15012098	1
28	Terminal Board	42011233	1
29	Electric Box Cover1	20122099	1
30	Shield cover of Electric Box	01592070	1
31	Electric Box Assy	2020216307	1
32	Electric Box	20112078	1
33	Main Board	30135296	1
34	Jumper	4202300105	1
35	Transformer	43110237	1
36	Rubber Plug (Water Tray)	76712012	1
37	Step Motor	1521300101	1
38	Pipe Clamp	26112188	1
39	Power Cord	400203253	1
40	Connecting Cable	400205382	1
41	Connecting Cable	/	/

The above data are subject to be changed without notice.

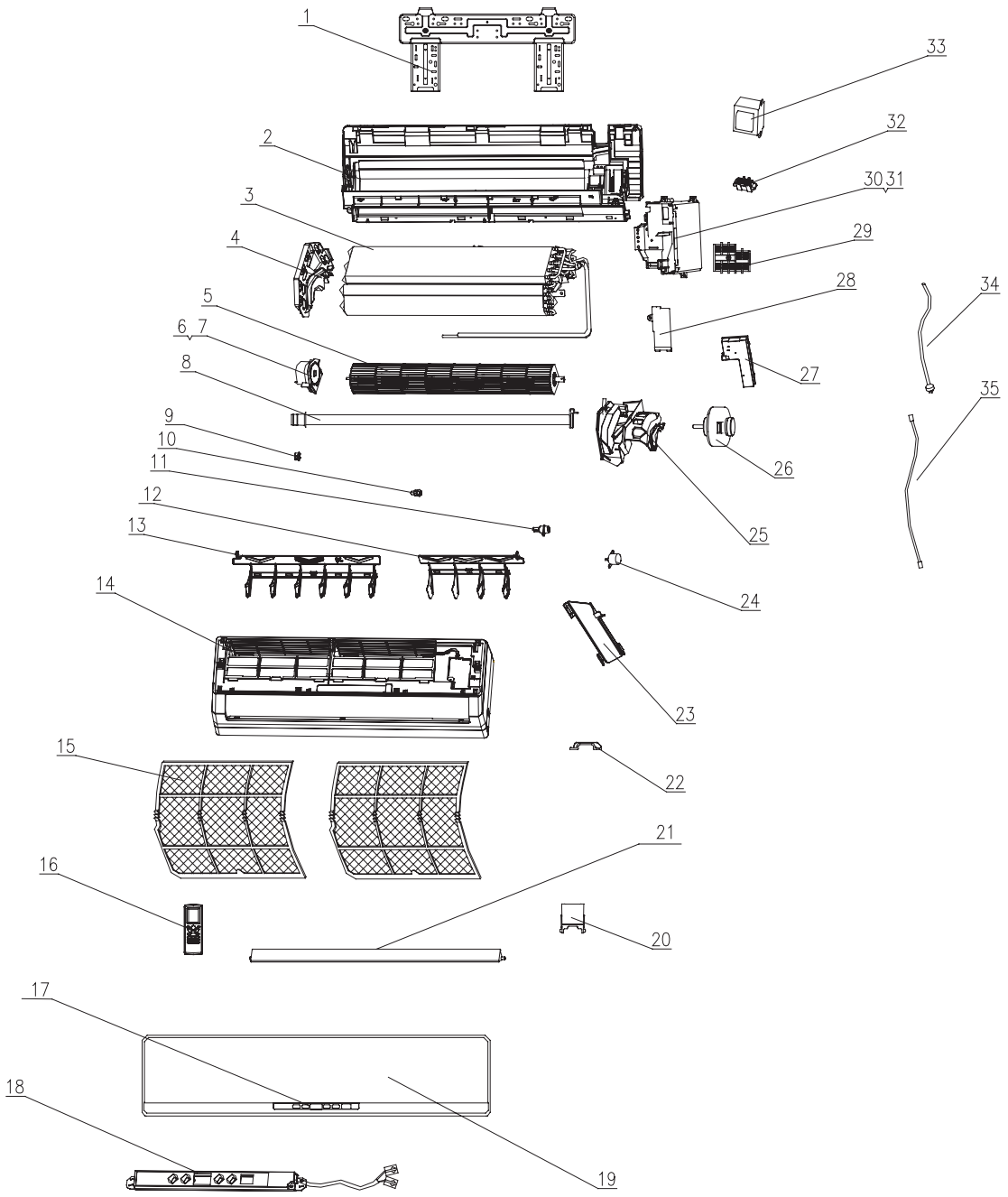
NO	Description	Part Code	Qty
		GWC09MA-K3NNA5A/I(SHARP)	
1	Wall Mounting Frame	01252015	1
2	Rear Case assy	2220210101	1
3	Axile Bush	10542704	1
4	Crank	10582070	1
5	Cross Flow Fan	10352018	1
6	O-Gasket sub-assy of Bearing	'76512051	1
7	O-Gasket of Cross Fan Bearing	'76512203	1
8	Ring of Bearing	26152022	1
9	Helicoid tongue	26112162	1
10	Air Louver 2	10512114	1
11	Air Louver 1	10512113	1
12	Evaporator Assy	0100255202	1
13	Evaporator Support	24212090	1
14	Drainage hose	0523001406	1
15	Guide Louver	10512111	1
16	Axile Bush	10542008	1
17	Front Case	20012120	1
18	Screw Cover	24252016	3
19	Filter Sub-Assy	11122081	2
20	Front Panel Assy	/	/
21	Front panel A2	20012196S	1
22	Receiver Window	/	/
23	Display Board	30565073	1
24	Remote Controller	30510041	1
25	Electric Box Cover2	20122075	1
26	Motor Press Plate	26112160	1
27	Fan Motor	15012115	1
28	Terminal Board	4201113401	1
29	Electric Box Cover1	20122103	1
30	Shield cover of Electric Box	01412036	1
31	Electric Box Assy	2020203728	1
32	Electric Box	20112082	1
33	Main Board	30035563	1
34	Jumper	4202300128	1
35	Transformer	43110236	1
36	Rubber Plug (Water Tray)	76712012	1
37	Step Motor	1521210801	1
38	Pipe Clamp	26112164	1
39	Power Cord	400202802	1
40	Connecting Cable	40020540	1
41	Connecting Cable	/	/

The above data are subject to be changed without notice.

NO	Description	Part Code			Qty
		GWH24MD-K3NNA2B/I	GWH24MD-K3NNA4B/I	GWH24MD-K3NNA4B/I(Suply power by outdoor unit)	
1	Wall Mounting Frame	'01252004	'01252004	'30510041	1
2	Rear Case assy	'22202117	'22202117	'22202117	1
3	Axile Bush	'10542008	'10542008	'10542008	2
4	Crank	'10582070	'10582070	'10582070	1
5	Cross Flow Fan	'10352030	'10352030	'10352030	1
6	O-Gasket sub-assy of Bearing	'76512051	'76512051	'76512051	1
7	O-Gasket of Cross Fan Bearing	'76512203	'76512203	'76512203	1
8	Ring of Bearing	'26152025	'26152025	'26152025	1
9	Helicoid tongue	'26112187	'26112187	'26112187	1
10	/	/	/	/	/
11	Air Louver 1	'10512159	'10512159	'10512159	3
12	Evaporator Assy	'01002572	'01002572	'01002572	1
13	Evaporator Support	'24212103	'24212103	'24212103	1
14	Drainage hose	'0523001405	'0523001405	'0523001405	1
15	Guide Louver	'10512118	'10512118	'10512118	1
16	Left Axile Bush	'10512037	'10512037	'10512037	1
17	Front Case	'20012295	'20012295	'20012295	1
18	Screw Cover	'24252016	'24252016	'24252016	3
19	Filter Sub-Assy	'11122091	'11122091	'11122091	2
20	Front Panel Assy	'20012369	'20012370	'20012370	1
21	Front Panel	'20012306S	'20012304S	'20012304S	1
22	/	/	/	/	/
23	Display Board	'30565039	'30565039	'30565039	1
24	Remote Controller	'30510041	'30510041		1
25	Electric Box Cover2	'20112081	'20112081	'20112081	1
26	Motor Press Plate	'26112184	'26112184	'26112184	1
27	Fan Motor	'15012098	'15012098	'15012098	1
28	Terminal Board	'4201026201	'4201026201	'4201026201	1
29	Electric Box Cover1	'20122128	'20122128	'20122128	1
30	Shield cover of Electric Box	'01592092	'01592092	'01592092	1
31	Electric Box Assy	'2020216303	'2020216303	'2020216319	1
32	Electric Box	'20112108	'20112108	'20112108	1
33	Main Board	'30135297	'30135297	'30135297	1
34	Jumper	'4202300105	'4202300105	'4202300105	1
35	Transformer	'43110237	'43110237	'43110237	1
36	Rubber Plug (Water Tray)	'76712012	'76712012	'76712012	1
37	Step Motor	'1521300101	'1521300101	'1521300101	1
38	Pipe Clamp	'26112188	'26112188	'26112188	1
39	Power Cord	'400204912	'400204912	'4002052312	1
40	Connecting Cable	'4002053603	'4002053603	'01252004	1
41	Connecting Cable	'400205382	'400205382	'4002053601	1

The above data are subject to be changed without notice.

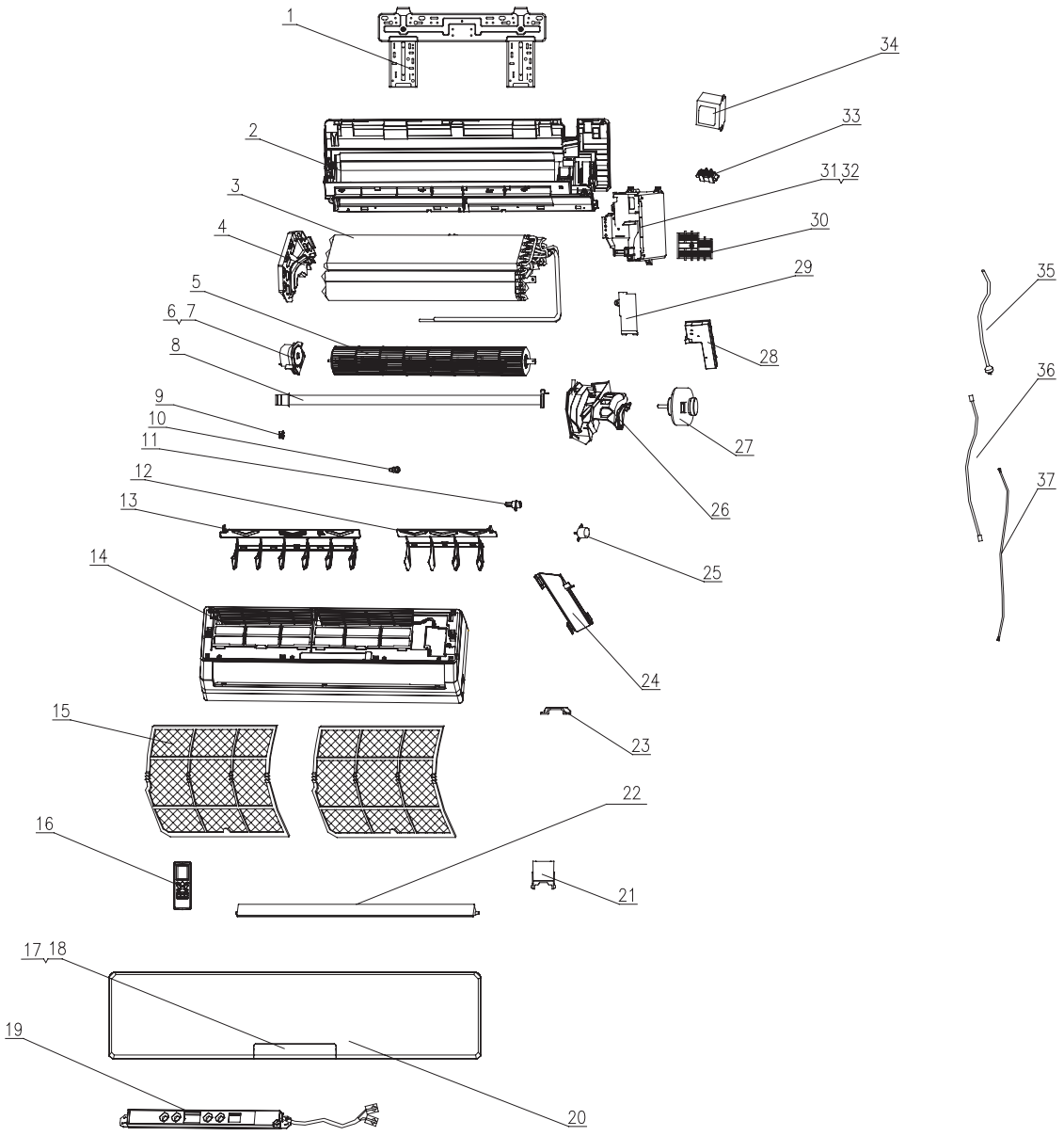
Applicable to: GWC12MB-K3NNA3C/I、GWC18MC-K3NNA3C/I、GWC12MB-K3NNA2A/I:



No.	Description	Part Code			Qty
		GWC12MB-K3NNA3C/I	GWC18MC-K3NNA3C/I	GWC12MB-K3NNA2A/I	
1	Wall Mounting Frame	'01252013	'01252013	'01252013	1
2	Rear Case assy	'2220210301	'2220210301	'2220210301	1
3	Evaporator Assy	'0100256401	'0100256502	'0141200901	1
4	Evaporator Support	'24212091	'24212091	'0100256401	1
5	Cross Flow Fan	'10352017	'10352017	'10352017	1
6	Ring of Bearing	'26152022	'26152022	'26152022	1
7	O-Gasket of Cross Fan Bearing	'76512203	'76512051	'76512051	1
8	Helicoid 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	Air Louver 1	'10512156	'10512156	'10512156	1
13	Air Louver 2	'10512155	'10512155	'10512155	1
14	Front Case	'20012123	'20012123	'20012123	1
15	Filter Sub-Assy	'1112220401	'1112220401	'1112220401	2
16	Remote Controller	'30510041	'30510041	'30510041	1
17	Receiver Window	'22432230	'22432230	'20192265	1
18	Display Board	'30565007	'30565007	'46010014	1
19	Front panel B1	'20012122S	'20012122S	'20012150S	1
20	Screw Cover	'24252016	'24252016	'24252016	1
21	Guide Louver	'10512157	'10512157	'10512157	1
22	/	/	/	/	/
23	Pipe Clamp	'26112164	'26112161	'26112161	1
24	Stepping Motor	'1521210801	'1521210801	'1521210801	1
25	Motor Press Plate	'26112161	'26112164	'26112164	1
26	Fan Motor	'150120874	'150120874	'150120874	1
27	Electric Box Cover1	'20102848	'20102848	'4202300130	1
28	Electric Box Cover2	'20122075	'20122075	'20102848	1
29	Terminal Board	'42010266	'42010266	'44020345	1
30	Electric Box	'20112064	'20112064	'20112064	1
31	Main Board	'30035565	'30135282	'30035565	1
32	Jumper	'4202300130	'4202300130	'44020386	1
33	Transformer	'43110236	'43110236	'43110236	1
34	Power Cord	'4002048712	'400220112	'400220112	1
35	Connecting Cable	'400205401	'400205401	'400205401	1

The above data are subject to be changed without notice.

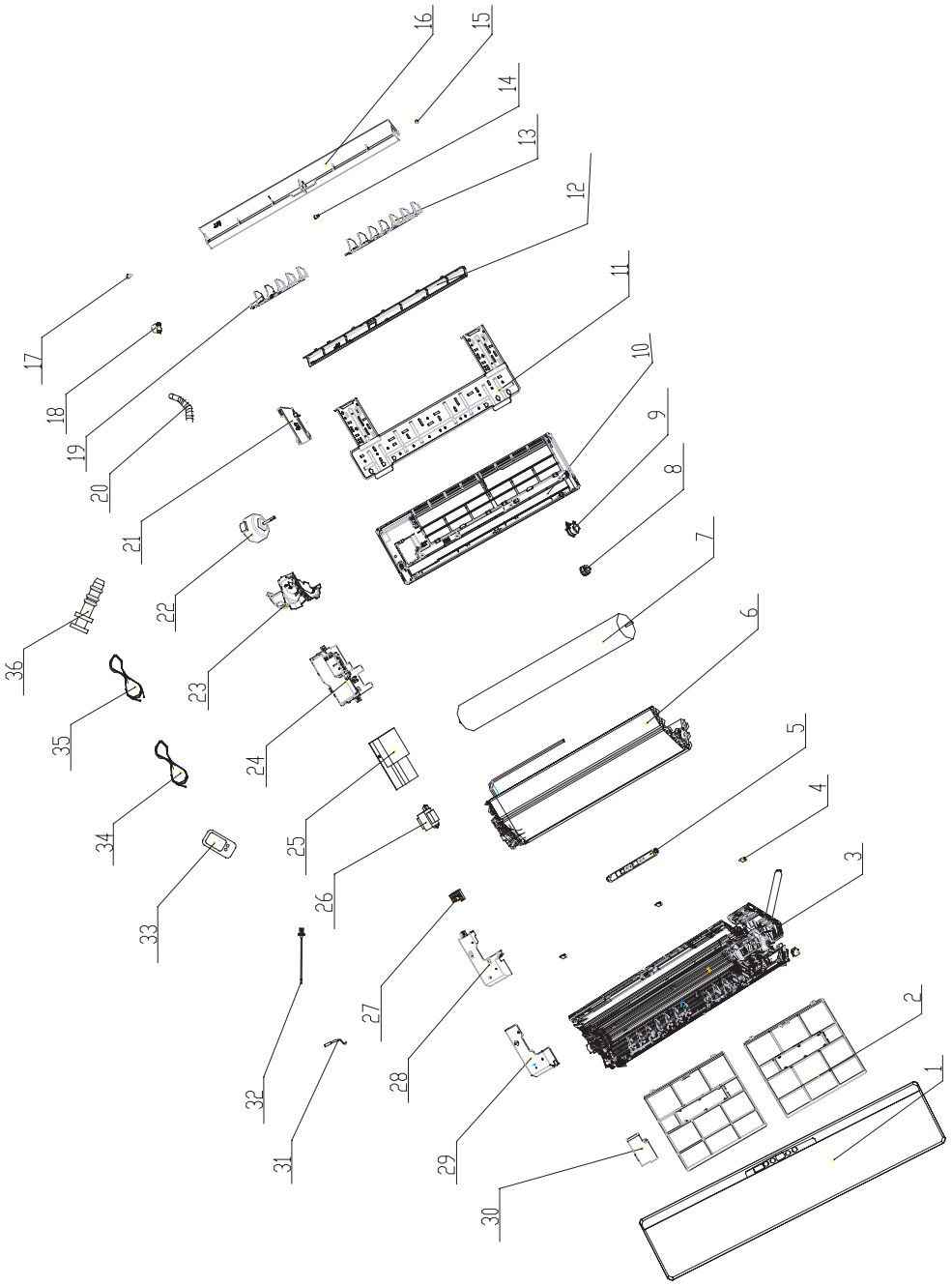
Applicable to: GWH12MB-K3NNA3C/I、GWH18MC-K3NNA3C/I:



No.	Description	Part Code		Qty
		GWH12MB-K3NNA3C/I	GWH18MC-K3NNA3C/I	
1	Wall Mounting Frame	'01252013	'01252013	1
2	Rear Case assy	'2220210301	'2220210301	1
3	Evaporator Assy	'0100256401	'0100256502	1
4	Evaporator Support	'24212091	'24212091	1
5	Cross Flow Fan	'10352017	'10352017	1
6	Ring of Bearing	'26152022	'26152022	1
7	O-Gasket of Cross Fan Bearing	'76512203	'76512203	1
8	Helicoid tongue	'26112163	'26112163	1
9	Left Axile Bush	'10512037	'10512037	1
10	crank	'10582070	'10582070	1
11	Axile Bush	'10542008	'10542008	1
12	Air Louver 1	'10512156	'10512156	1
13	Air Louver 2	'10512155	'10512155	1
14	Front Case	'20012123	'20012123	1
15	Filter Sub-Assy	'1112220401	'1112220401	2
16	Remote Controller	'30510041	'30510041	1
17	Receiver Window	'22432230	'22432230	1
18	/	/	/	/
19	Display Board	'30565007	'30565007	1
20	Front panel B1	'20012122S	'20012122S	1
21	Screw Cover	'24252016	'24252016	1
22	Guide Louver	'10512157	'10512157	1
23	/	/	/	/
24	Pipe Clamp	'26112164	'26112164	1
25	Stepping Motor	'1521210801	'1521210801	1
26	Motor Press Plate	'26112161	'26112161	1
27	Fan Motor	'150120874	'150120874	1
28	Electric Box Cover1	'20102848	'20102848	1
29	Electric Box Cover2	'20122075	'20122075	1
30	Terminal Board	'42010262	'42010262	1
31	Electric Box	'20112064	'20112064	1
32	Main Board	'30035566	'30135283	1
33	Jumper	'4202300130	'4202300130	1
34	Transformer	'43110236	'43110236	1
35	Power Cord	'400220112	'400220112	1
36	Connecting Cable	'400205401	'400205401	1
37	Connecting Cable	'40020536	'40020536	1

The above data are subject to be changed without notice.

Applicable to: GWC18MC-K3NNA2A/I:

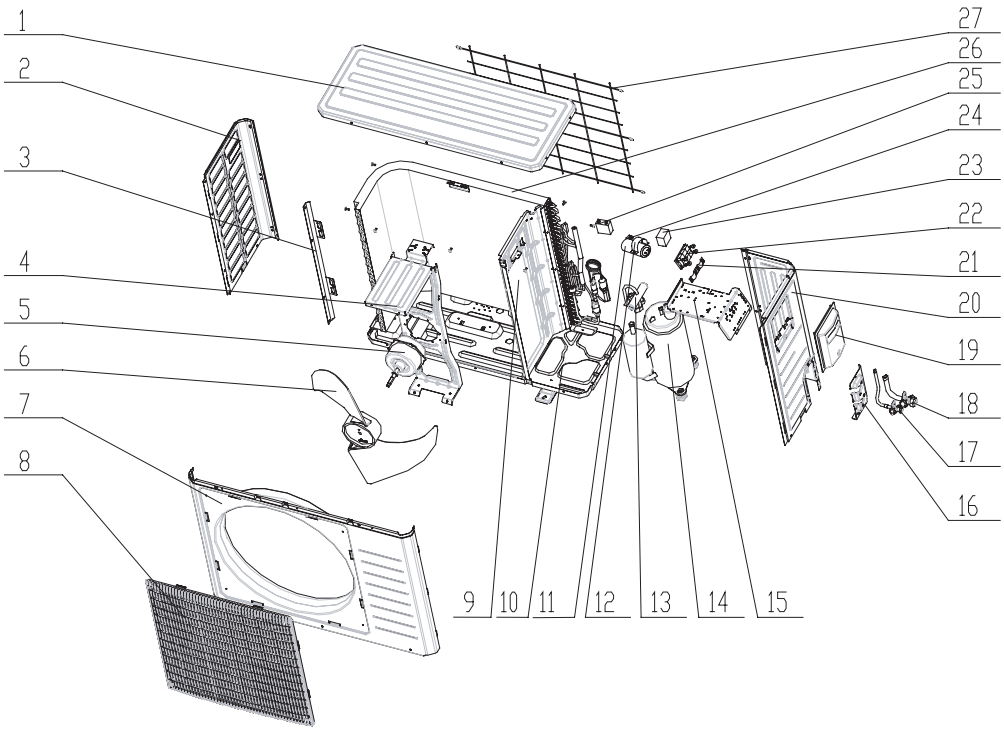


No.	Description	Part Code	Qty
		GWC18MC-K3NNA2A/I	
1	Front Panel Assy	'20012283	1
2	Filter Sub-Assy	'1112208901	2
3	Rear Case assy	'12312214	1
4	Screw Cover	'24252016	3
5	Display Board	'30565039	1
6	Evaporator Assy	'0100274101	1
7	Cross Flow Fan	'10352019	1
8	O-Gasket of Cross Fan Bearing	'76512203	1
9	Ring of Bearing	'26152022	1
10	Front Case Sub-Assy	'20012288	1
11	Wall Mounting Frame	'01252218	1
12	/	/	/
13	/	/	/
14	Axile Bush	'10542008	1
15	Left Axile Bush	'10512037	1
16	Guide Louver	'10512115	1
17	crank	'10582070	1
18	Stepping Motor	'15012086	1
19	/	/	/
20	Drainage hose	'05230014	1
21	Pipe Clamp	'26112164	1
22	Fan Motor	'15012113	1
23	/	/	/
24	Electric Box	'20112078	1
25	Main Board	'30135227	1
26	Transformer	'43110237	1
27	Terminal Board	'42011240	1
28	Electric Box Cover1	'20122099	1
29	Shield cover of Electric Box	'01592070	1
30	Electric Box Cover2	'20112081	1
31	Tube Sensor	'390000591	1
32	Ambient Temperature Sensor	'390000451	1
33	Remote Controller	'30510041	1
34	Connecting Cable	'400205402	1
35	Power Cord	'400203253	1
36	Rubber Plug (Water Tray)	'76712012	1

The above data are subject to be changed without notice.

8.22 Explosive view and spare Parts list of outdoor unit

Applicable to: GWH24MD-K3NNA2A、GWH24MD-K3NNA3A and GWH24MD-K3NNA4A(GWH24MD-K3NNA3A/O);
GWC24MD-K3NNA2A、GWC24MD-K3NNA3A、GWC24MD-K3NNA4A and GWC24MD-K3NNA8A(GWC24MD-K3NNA2A/O):



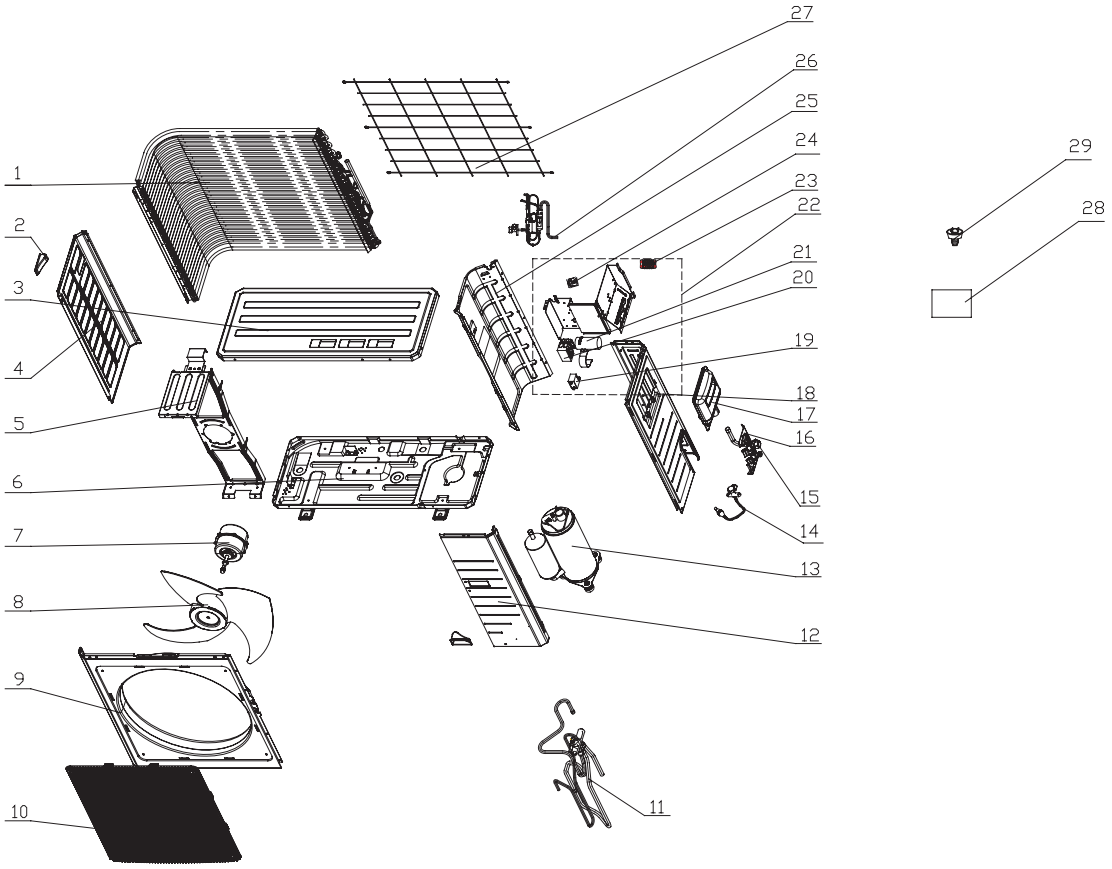
No.	Description	Part Code	Qty
		GWH24MD-K3NNA3A/O	
1	Top Cover	01255005	1
2	Left Side Plate	01305041	1
3	Condenser Support	01795010	1
4	Motor Support	01705013	1
5	Fan Motor LW70C	1501506102	1
6	Axial Flow Fan	10335008	1
7	Front Panel	01535005	1
8	Front grill	22415002	1
9	Clapboard Sub-Assy	01235027	1
10	Base Plate Sub-Assy	0120369801	1
11	Capacitor CBB65 50uF/450V	33000001	1
12	Capacitor Clamp	02143401	1
13	4-way Valve	4300008201	1
14	Compressor QX-F36rN030	00103133	1
	Compressor Gasket	/	/
	Overload Protector	00180138	1
15	Electric Box	01415027	1
16	Valve Support Sub-Assy	01713087	1
17	Cut-off valve Sub-Assy 3/8	07130239	1
18	Cut-off Valve	07133157	1
19	Handle	26235254	1
20	Right Side Plate	01305053	1
21	Fixed Clamp	71010103	1
		71010102	1
22	Terminal Board	420101941	1
23	AC Contactor CJX9B-25S/D	44010245	1
24	Terminal Board	42011147	1
25	Capacitor CBB61 3.5uF/450V	33010010	1
26	Condenser Assy	01113415	1
27	Mesh Enclosure	01475007	1

The above data are subject to be changed without notice.

No.	Description	Part Code	Qty
		GWC24MD-K3NNA2A/O	
1	Top Cover	01255005P	1
2	Left Side Plate	01305041P	1
3	Condenser Support	1795010	1
4	Motor Support Sub-Assy	01705020	1
5	Fan Motor	1501506102	1
6	Axial Flow Fan	10335008	1
7	Front Panel	01535005P	1
8	Front grill	22415002	1
9	Chassis Sub-assy	0120369801P	1
10	Discharge Tube	03713466	1
11	Inhalation Tube Sub-Assy	03723009	1
12	Capacitor CBB65	33000001	1
13	Capacitor splint	02143401	1
14	Electric Box Assy	02603007	1
15	/	/	/
16	Compressor and fittings	/	1
17	Cut-off valve Sub-Assy	71010102	1
18	Cut-off Valve	00103133	1
19	Valve Support Sub-Assy	07133170	1
20	Handle	07133157	1
21	Right Side Plate	01713087P	1
22	Terminal Board	26235254	1
23	AC Contactor	01305053P	1
24	Capacitor CBB61	/	1
25	Clapboard Sub-Assy	42011113	1
26	Condenser Assy	44010245	1
27	Rear Grill	33010010	1
25	Capacitor CBB61 3.5uF/450V	1235027	1
26	Condenser Assy	01113421	1
27	Mesh Enclosure	01475007	1

The above data are subject to be changed without notice.

Applicable to: GWH24MD-K3NNA3B/O、GWH24MD-K3NNA2B (GWH24MD-K3NNA3B/O)、GWH24MD-K3NNA4B (GWH24MD-K3NNA3B/O)、GWH24MD-K3NNA4B(Suply power by outdoor unit)(GWH24MD-K3NNA3B/O Suply power by outdoor unit):



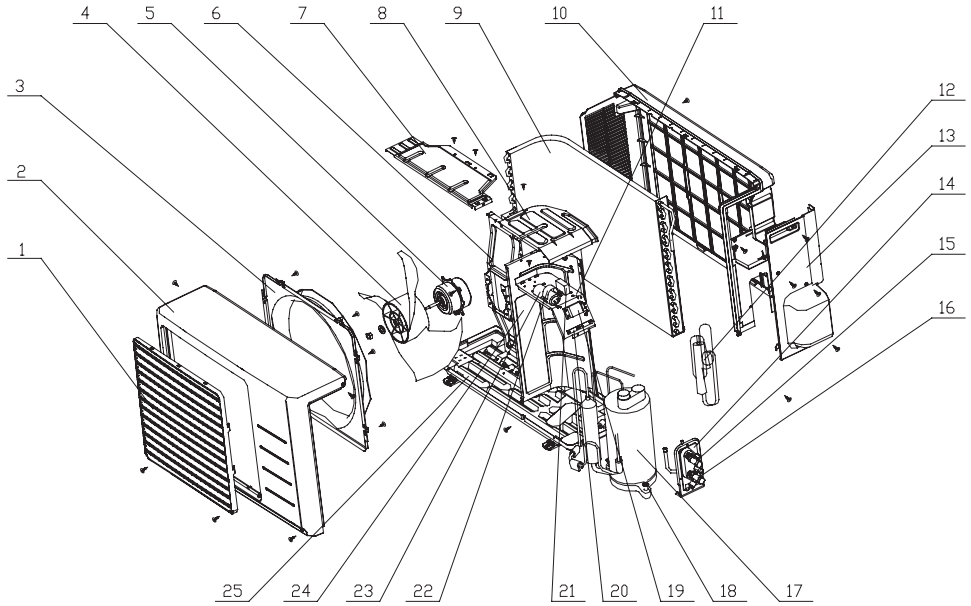
No.	Description	Part Code	Qty
		GWH24MD-K3NNA2B（GWH24MD-K3NNA3B/O）、GWH24MD-K3NNA3B/O、GWH24MD-K3NNA4B（GWH24MD-K3NNA3B/O）	
1	Condenser Assy	01113435	1
2	left handle	26235401	2
3	Top Cover Sub-Assy	01255007	1
4	Left Side Plate	01305043P	1
5	Motor Support Sub-Assy	01705025	1
6	Chassis Sub-assy	01203777P	1
7	Fan Motor	1501506202	1
8	Axial Flow Fan	10335005	1
9	Cabinet	01435004P	1
10	Front Grill	22415003	1
11	4-way Valve Assy	03123271	1
12	Front Side Plate	01305045P	1
13	Compressor and fittings	00103034	1
14	Cut-off valve Sub-Assy	07133179	1
15	Cut-off Valve	07133157	1
16	Valve Support Sub-Assy	01715012P	1
17	Big Handle	26235001	1
18	Right Side Plate	01305044P	1
19	Capacitor CBB61	33010009	1
20	AC Contactor	44010245	1
21	Capacitor CBB65	33000039	1
22	Electric Box Assy	02603221	1
23	Terminal Board	420101941	1
24	Terminal Board	42011147	1
25	Clapboard	01235024	1
26	Capillary Sub-Assy	03103985	1
27	Rear Grill	01475008	1
28	Insulated board (cover of electric box)	20113003	1
29	Drainage Connecter	06123401	1

The above data are subject to be changed without notice.

NO	Description	Part Code	Qty
		GWH24MD-K3NNA4B（Suply power by outdoor unit）：GWH24MD-K3NNA3B/O(Suply power by outdoor unit)	
1	Condenser Assy	'01113435	1
2	left handle	'26235401	2
3	Top Cover Sub-Assy	'01255007	1
4	Left Side Plate	'01305043P	1
5	Motor Support Sub-Assy	'01705025	1
6	Chassis Sub-assy	'01203777P	1
7	Fan Motor	'1501506202	1
8	Axial Flow Fan	'10335005	1
9	Cabinet	'01435004P	1
10	Front Grill	'22415003	1
11	4-way Valve Assy	'03123271	1
12	Front Side Plate	'01305072P	1
13	Compressor and fittings	'00103034	1
14	Cut-off valve Sub-Assy	'07133179	1
15	Cut-off Valve	'07133157	1
16	Valve Support Sub-Assy	'01715012P	1
17	Big Handle	'26235001	1
18	Right Side Plate	'01305044P	1
19	Capacitor CBB61	'33010009	1
20	AC Contactor	'44010245	1
21	Capacitor CBB65	'33000039	1
22	Electric Box Assy	'0260322101	1
23	Terminal Board	'42011203	1
24	Terminal Board	'42011147	1
25	Clapboard	'01235043	1
26	Capillary Sub-Assy	'03103985	1
27	Rear Grill	'01475008	1
28	Insulated board (cover of electric box)	'20113003	1
29	Drainage Connecter	'06123401	1

The above data are subject to be changed without notice.

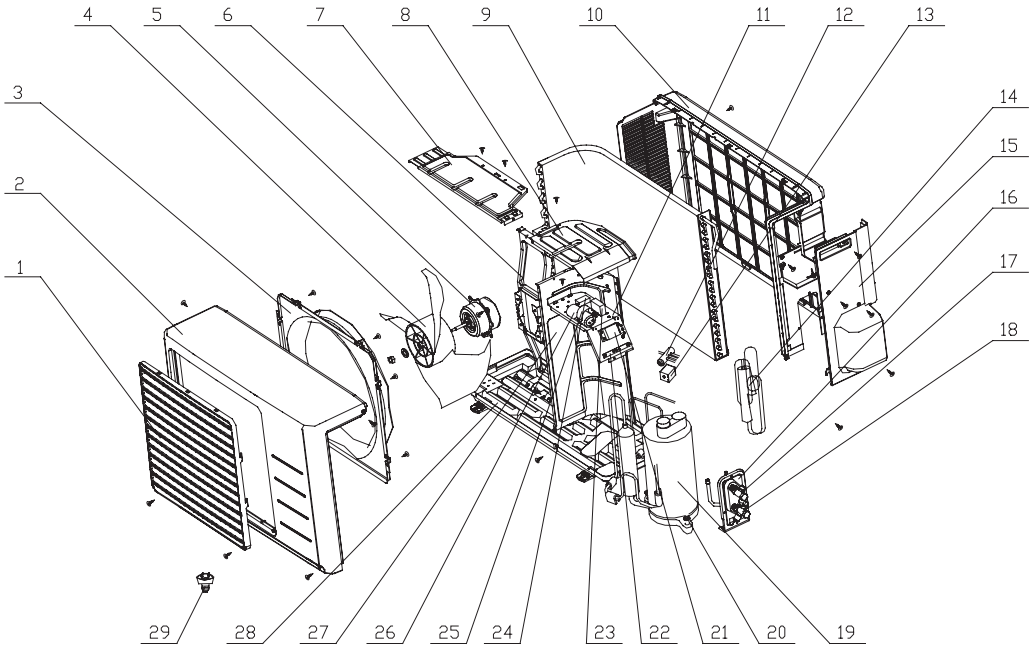
Applicable to: GWC09MA-K3NNA3C/O:



No.	Description	Part Code	Qty
		GWC09MA-K3NNA3C/O	
1	Air Outlet Grill	22413010	1
2	Front Cover	22263005	1
3	Diversion Circle	10373001	1
4	Axial Flow Fan	10333413	1
5	Fan Motor	150130671	1
6	/	/	/
7	/	/	/
8	Electric Box Cover	01413012	1
9	Condenser Assy	01113291	1
10	Rear grill	22263006	1
11	Electric Box Assy	014030847	1
12	Capillary Sub-Assy	03103839	1
13	Right handle	26233001	1
14	Valve Support	01713041	1
15	Valve	07100003	1
16	Valve	07100005	1
17	Compressor and fittings	00103082	1
18	/	/	/
19	Terminal Board	42011241	1
20	/	/	/
21	Capacitor CBB65	33000018	1
22	/	/	/
23	Capacitor CBB61	33010025	1
24	Clapboard Sub-Assy	012334173	1
25	Chassis Sub-assy	01203659P	1

The above data are subject to be changed without notice.

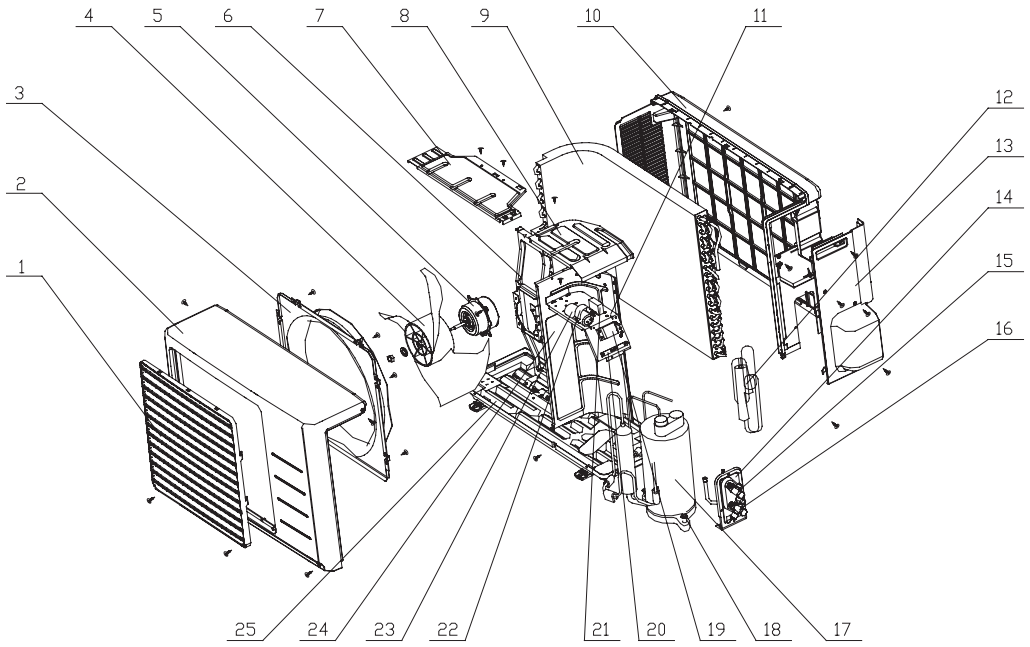
Applicable to: GWH09MA-K3NNA3C/O:



No.	Description	Part Code	Qty
		GWH09MA-K3NNA3C/O	
1	Front Grill	'22413010	1
2	Front Cover	'22263005	1
3	Flow Guide Loop	'10373001	1
4	Axial Flow Fan	'10333413	1
5	Motor FW30K	'150130671	1
6	Motor Support	/	/
7	Support	/	/
8	Electric Box Cover	'01413012	1
9	Condenser Assy	'0110395702	1
10	Back Cover	'22263006	1
11	Electric Box	'014030848	1
12	4-way Valve	'03123261	1
13	4-way Valve Coil	'43000400	1
14	Capillary Assy	'0310349702	1
15	Handle	'26233001	1
16	Valve Support	'01713041	1
17	Valve 1/4"	'07100003	1
18	Valve 3/8"	'07100005	1
19	Compressor C-1RV147H01AA	'00103082	1
20	Nut with Washer M8	/	/
21	Terminal Board	'42010265	1
22	Wire Clamp	/	/
23	Fan Capacitor 2.5uF/450V	'33010025	1
24	Terminal Board	'42011147	1
25	Capacitor Clamp	/	/
26	Capacitor 25uF/450V(440V)	'33000018	1
27	Clapboard	'012334173	1
28	Metal Base	'01203659P	1
29	Drainage Connecter	'06123401	1

The above data are subject to be changed without notice.

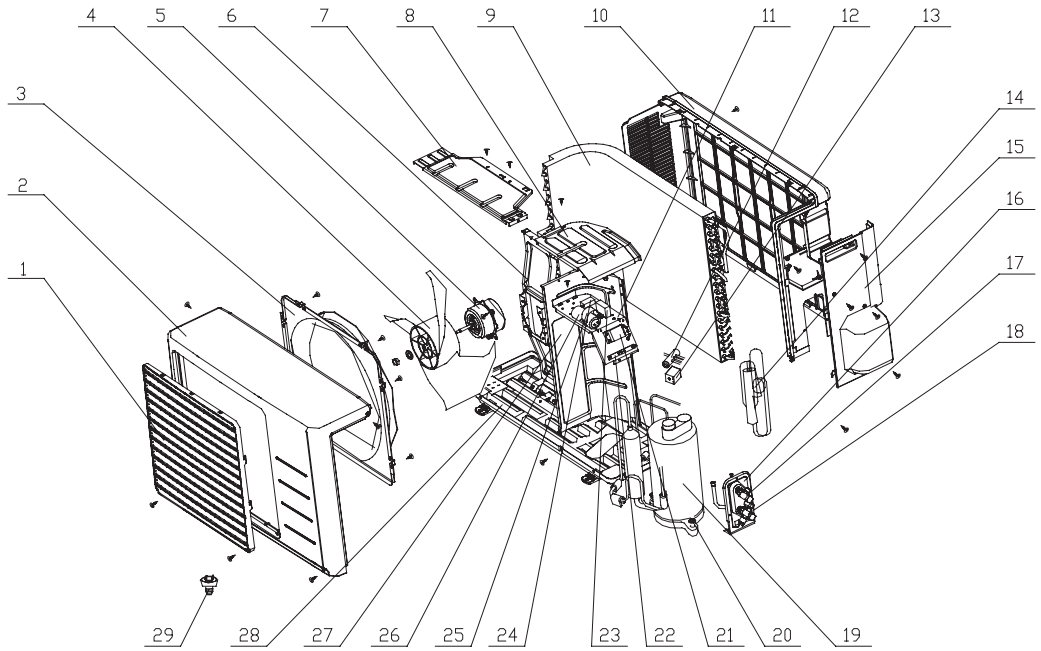
Applicable to: GWC12MB-K3NNA3C/O:



No.	Description	Part Code	Qty
		GWC12MB-K3NNA3C/O	
1	Air Outlet Grill	'22413010	1
2	Front Cover	'22263005	1
3	Diversion Circle	'10373001	1
4	Axial Flow Fan	'10333413	1
5	Fan Motor	'15013067	1
6	Motor Support	'0170307302	1
7	/	/	/
8	Electric Box Cover	'01413012	1
9	Condenser Assy	'01113290	1
10	Rear grill	'22263006	1
11	Electric Box Assy	'014030849	1
12	Capillary Assy	'03103838	1
13	Right handle	'26233001	1
14	Valve Support	'01713041	1
15	Valve	'07100003	1
16	Valve	'07100006	1
17	Compressor and fittings	'00120223	1
18	/	/	/
19	Terminal Board	'42011154	1
20	/	/	/
21	Capacitor CBB65	'33000018	1
22	/	/	/
23	Capacitor CBB61	'33010025	1
24	Clapboard Sub-Assy	'012334173	1
25	Chassis Assy	'0120322910	1

The above data are subject to be changed without notice.

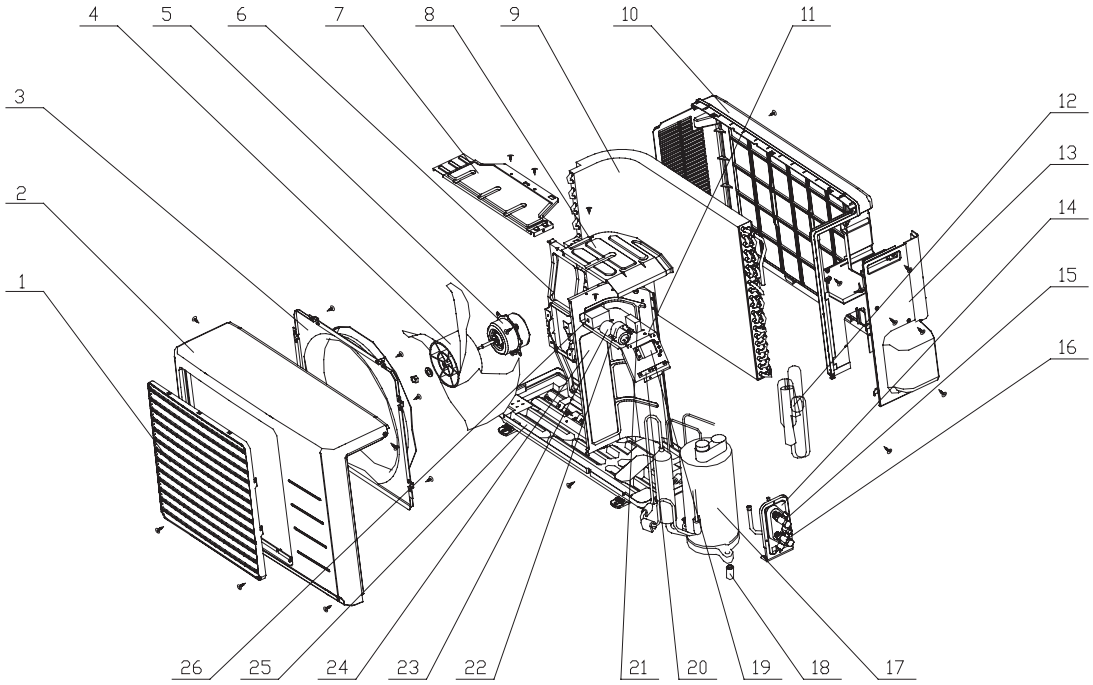
Applicable to: GWH12MB-K3NNA3C/O:



No.	Description	Part Code	Qty
		GWC12MB-K3NNA3C/O	
1	Air Outlet Grill	'22413010	1
2	Front Cover	'22263005	1
3	Diversion Circle	'10373001	1
4	Axial Flow Fan	'10333413	1
5	Fan Motor	'15013067	1
6	Motor Support	'0170307302	1
7	/	/	/
8	Electric Box Cover	'01413012	1
9	Condenser Assy	'0110348418	1
10	Rear grill	'22263006	1
11	Electric Box Assy	'0140308410	1
12	4-way Valve Assy	'03123270	1
13	4-way Valve Accessary	'43000400	1
14	Capillary Sub-Assy	'03003946	1
15	Right handle	'26233001	1
16	Valve Support	'01713041	1
17	Valve	'07100003	1
18	Valve	'07100006	1
19	Compressor and fittings	'00120223	1
20	/	/	/
21	Terminal Board	'42010265	1
22	/	/	/
23	Capacitor CBB65	'33000018	1
24	Terminal Board	'42011147	1
25	/	/	/
26	Capacitor CBB61	'33010025	1
27	Clapboard Sub-Assy	'012334173	1
28	Chassis Assy	'0120322910	1
29	Drainage Connecter	'06123401	1

The above data are subject to be changed without notice.

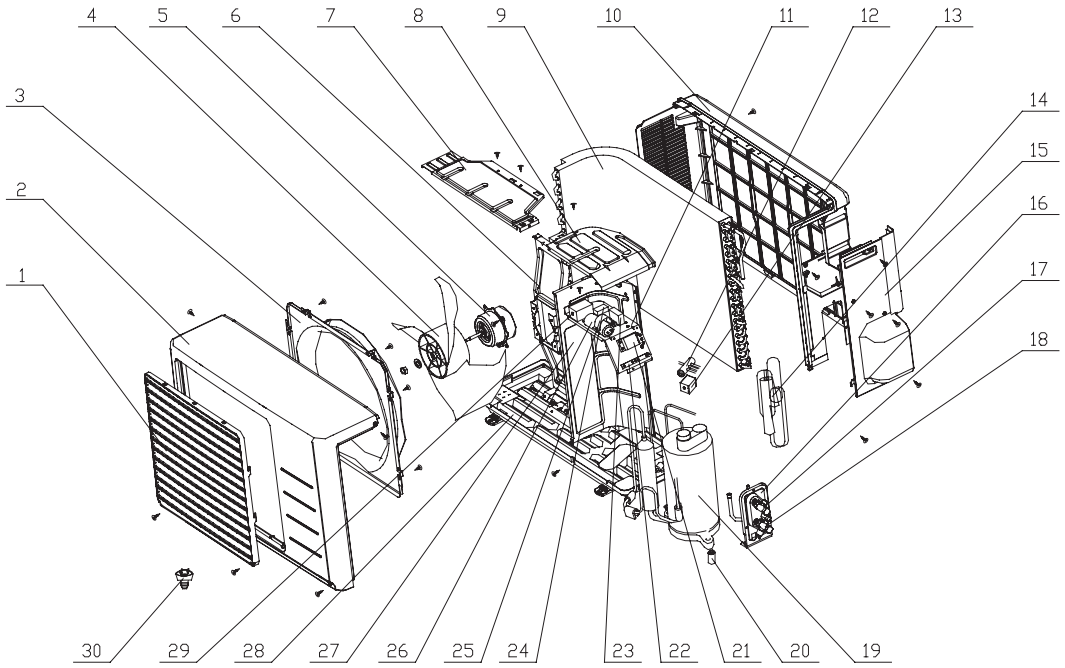
Applicable to: GWC18MC-K3NNA3C/O:



No.	Description	Part Code	Qty
		GWC18MC-K3NNA3C/O	
1	Air Outlet Grill	'22413010	1
2	Front Cover	'22263005	1
3	Diversion Circle	'10373001	1
4	Axial Flow Fan	'10333413	1
5	Fan Motor	'15013071	1
6	Motor Support	'01703074	1
7	/	/	/
8	Electric Box Cover	'01413012	1
9	Condenser Assy	'01113454	1
10	Rear grill	'22263006	1
11	Electric Box Assy	'02603197	1
12	Capillary Sub-Assy	'03103423	1
13	Right handle	'26233001	1
14	Valve Support	'01713041	1
15	Valve	'07100003	1
16	Valve	'07100006	1
17	Compressor and fittings	'00120023	1
18	/	/	/
19	Terminal Board	'42011154	1
20	/	/	/
21	Capacitor CBB65	'33010743	1
22	/	/	/
23	Capacitor CBB61	'33010026	1
24	Clapboard Sub-Assy	'012334173	1
25	Chassis Sub-assy	'012031853	1
26	/	/	/

The above data are subject to be changed without notice.

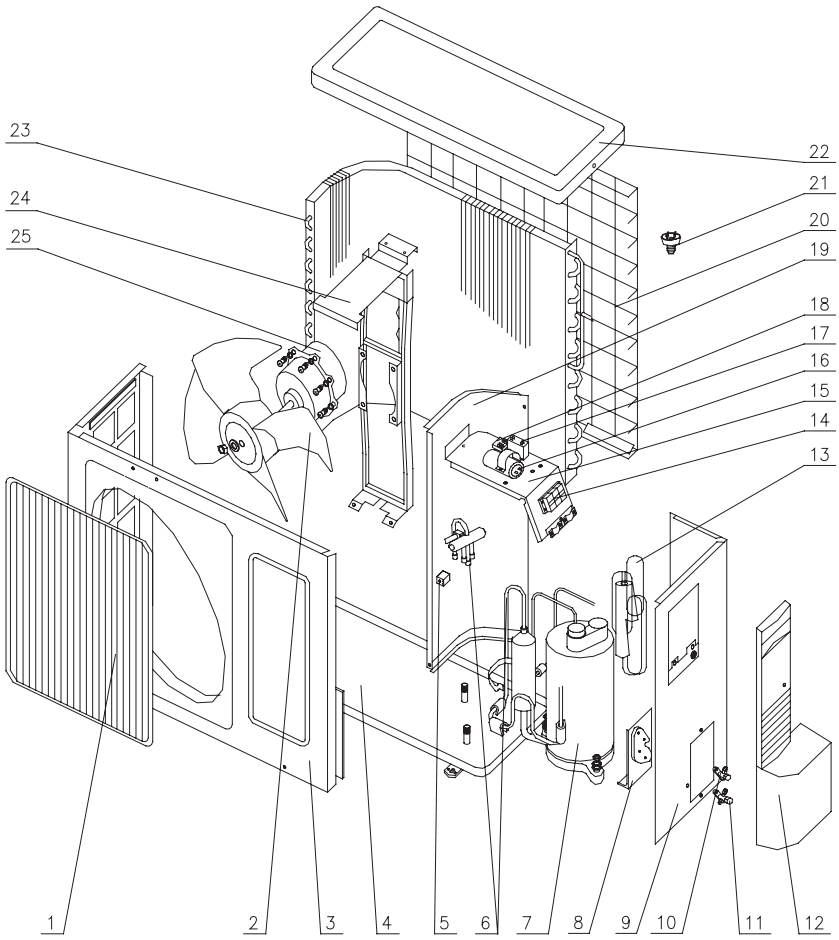
Applicable to: GWH18MC-K3NNA3C/O:



No.	Description	Part Code	Qty
		GWH18MC-K3NNA3C/O	
1	Air Outlet Grill	'22413010	1
2	Front Cover	'22263005	1
3	Diversion Circle	'10373001	1
4	Axial Flow Fan	'10333413	1
5	Fan Motor	'15013071	1
6	Motor Support	'01703074	1
7	/	/	/
8	Electric Box Cover	'01413012	1
9	Condenser Assy	'01113445	1
10	Rear grill	'22263006	1
11	Electric Box Assy	'02603198	1
12	4-way Valve Assy	'03123277	1
13	4-way Valve Accessary	'430004002	1
14	Capillary Sub-Assy	'03103401	1
15	Right handle	'26233001	1
16	Valve Support	'01713041	1
17	Valve	'07100003	1
18	Valve	'07100006	1
19	Compressor and fittings	'00120023	1
20	/	/	/
21	Terminal Board	'42010265	1
22	/	/	/
23	Capacitor CBB65	'33010743	1
24	Terminal Board	'42011147	1
25	/	/	/
26	Capacitor CBB61	'33010026	1
27	Clapboard Sub-Assy	'012334173	1
28	Chassis Sub-assy	'012031853	1
29	/	/	/
30	Drainage Connecter	'06123401	1

The above data are subject to be changed without notice.

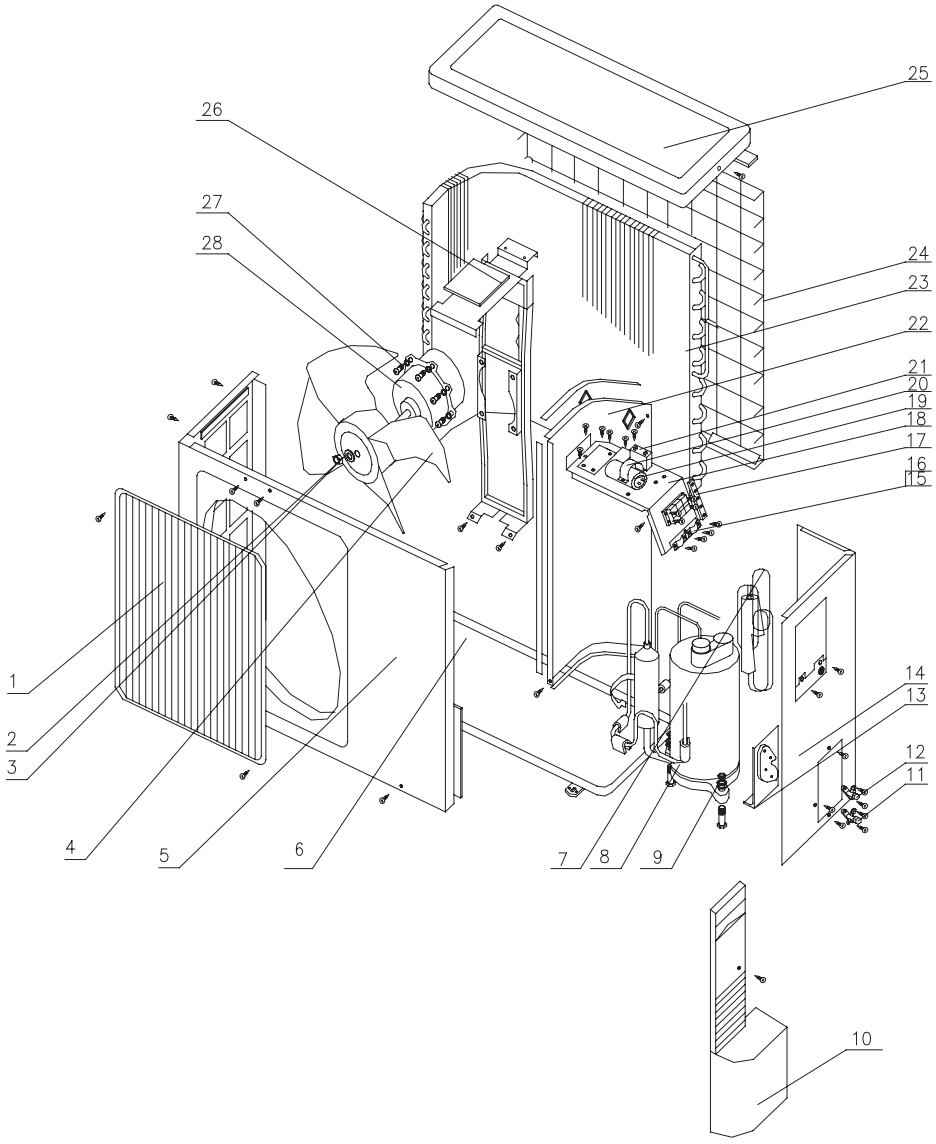
Applicable to: GWC09MA-K3NNA2A/O:



No.	Description	Part Code	Qty
		GWC09MA-K3NNA2A/O	
1	Front grill	22413431	1
2	Axial Flow Fan	10333004	1
3	Front Panel	015330124	1
4	Chassis Sub-assy	01203659P	1
5	/	/	/
6	/	/	/
7	Compressor and fittings	00103082	1
8	Valve Support	01713041	1
9	Right Side Plate Assy	0130200403	1
10	Valve	07100003	1
11	Valve	07100005	1
12	Big Handle	26233433	1
13	Capillary Sub-Assy	03103839	1
14	Terminal Board	42011154	1
15	Electric Box Assy	0140398701	1
16	Capacitor CBB65	33000018	1
17	Capacitor CBB61	33010025	1
18	/	/	/
19	Clapboard Sub-Assy	012334172	1
20	Rear grill	11123205	1
21	/	/	/
22	Top Cover Plate	01253443	1
23	Condenser Assy	01113291	1
24	Motor Support Sub-Assy	01703051	1
25	Fan Motor	150130671	1

The above data are subject to be changed without notice.

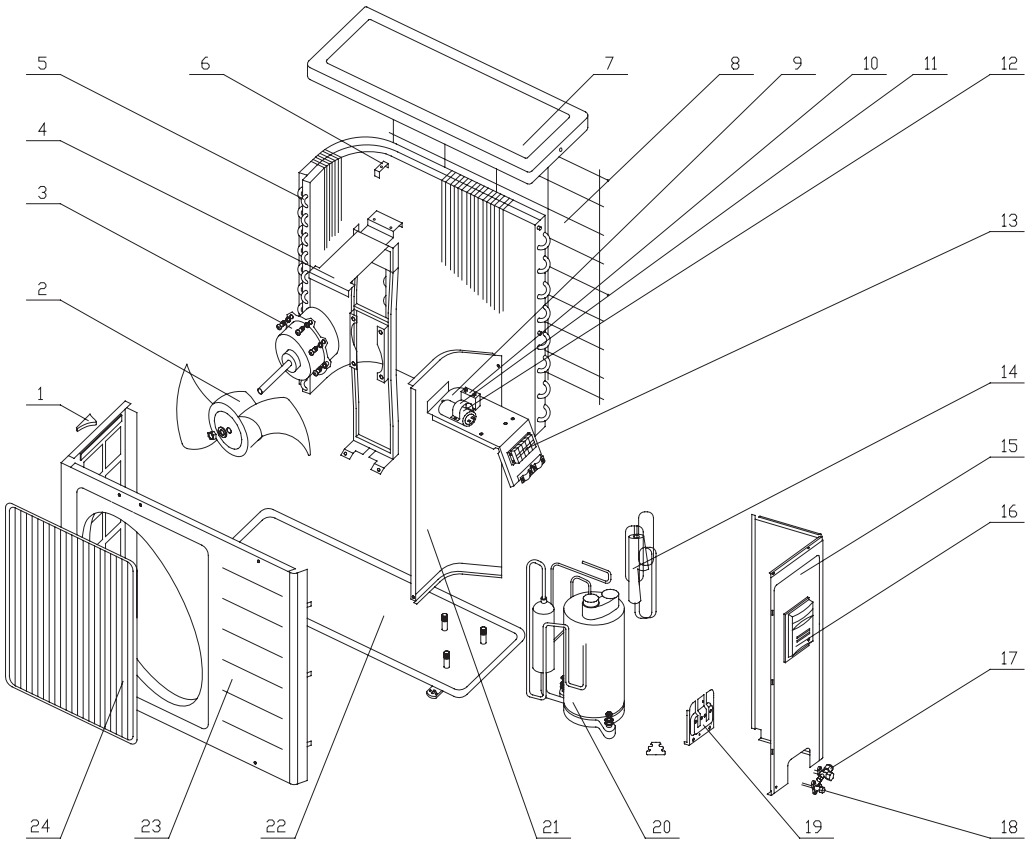
Applicable to: GWC12MB-K3NNA2A/O:



No.	Description	Part Code	Qty
		GWC12MB-K3NNA2A/O	
1	Front grill	22413431	1
2	/	/	/
3	/	/	/
4	Axial Flow Fan	10333004	1
5	Front Panel	015330124	1
6	Chassis Assy	0120322910	1
7	Capillary Assy	03103838	1
8	Compressor and fittings	00120223	1
9	/	/	/
10	Big Handle	26233433	1
11	Valve	07100006	1
12	Valve	07100003	1
13	Valve Support	01713041	1
14	Right Side Plate Assy	0130200404	1
15	/	/	/
16	/	/	/
17	Terminal Board	42011154	1
18	Electric Box Assy	0140383305	1
19	Capacitor CBB65	33000018	1
20	/	/	/
21	Capacitor CBB61	33010025	1
22	Clapboard Sub-Assy	012334172	1
23	Condenser Assy	01113290	1
24	Rear grill	11123205	1
25	Top Cover Plate	01253443	1
26	Motor Support Sub-Assy	017030511	1
27	/	/	/
28	Fan Motor	15013067	1

The above data are subject to be changed without notice.

Applicable to: GWC18MC-K3NNA2A/O:

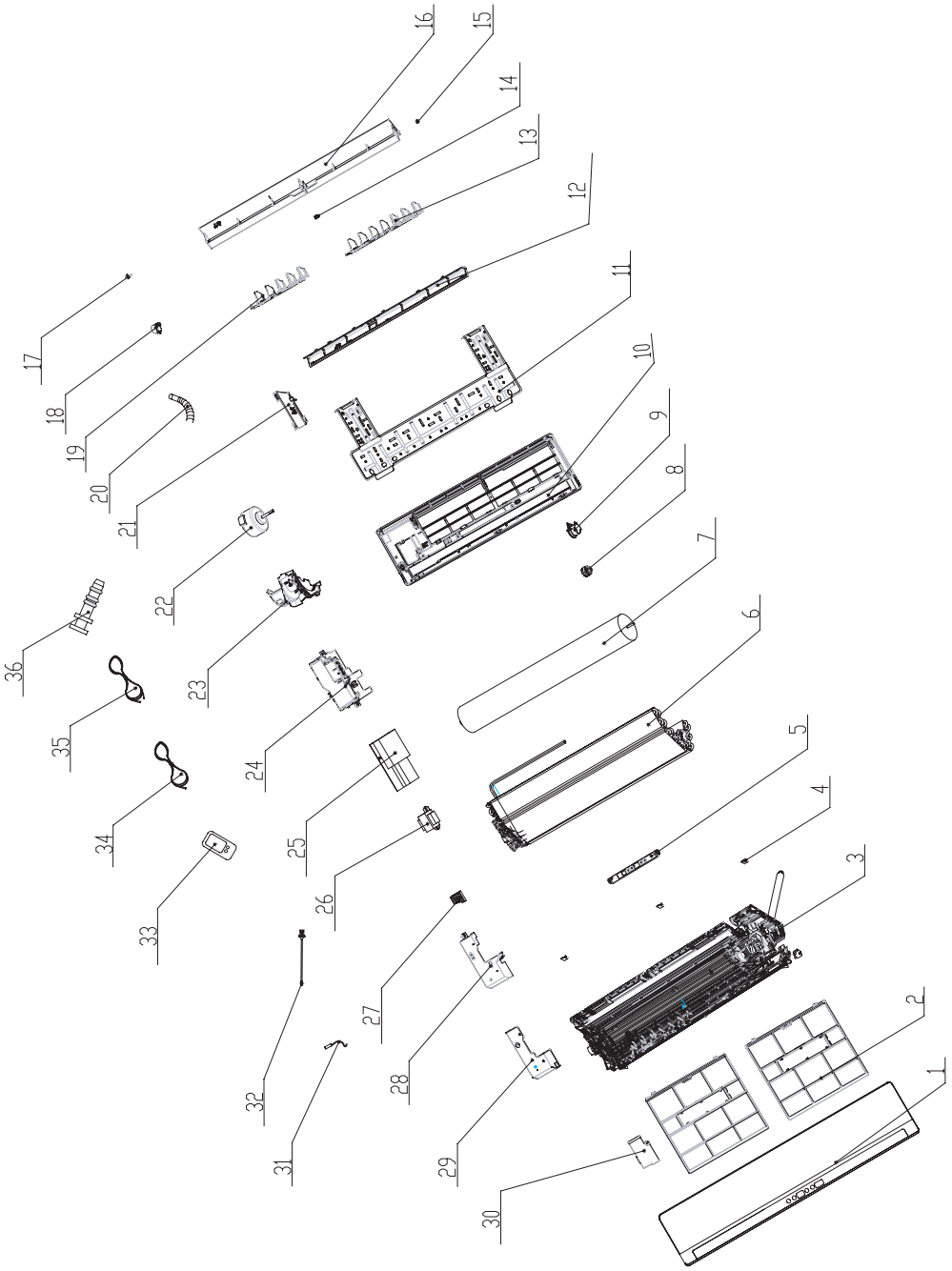


No.	Description	Part Code	Qty
		GWC18MC-K3NNA2A/O	
1	left handle	'26235401	1
2	Axial Flow Fan	'10335257	1
3	Fan Motor	'15015057	1
4	Motor Support Sub-Assy	'0170309801	1
5	Condenser Assy	'01113303	1
6	/	/	/
7	Top Cover	'01255001	1
8	Rear Grill	'01475004	1
9	Electric Box Assy	'02603187	1
10	Capacitor CBB61	'33010026	1
11	/	/	/
12	Capacitor CBB65	'33000039	1
13	Terminal Board	'42011241	1
14	Capillary Sub-Assy	'03103850	1
15	Right Side Plate	'01305013	1
16	Handle	'26235254	1
17	Cut-off Valve	'07130213	1
18	Cut-off valve Sub-Assy	'07133067	1
19	Valve Support Sub-Assy	'01713075	1
20	Compressor and fittings	'00103007	1
21	Clapboard Sub-Assy	'01233035	1
22	Chassis Sub-assy	'0120362602P	1
23	Front Panel	'01305015	1
24	Front grill	'22415001	1

The above data are subject to be changed without notice.

8.23 Explosive view and spare Parts list of indoor unit

Applicable to: GWH18MC-K3NNB3A/I:

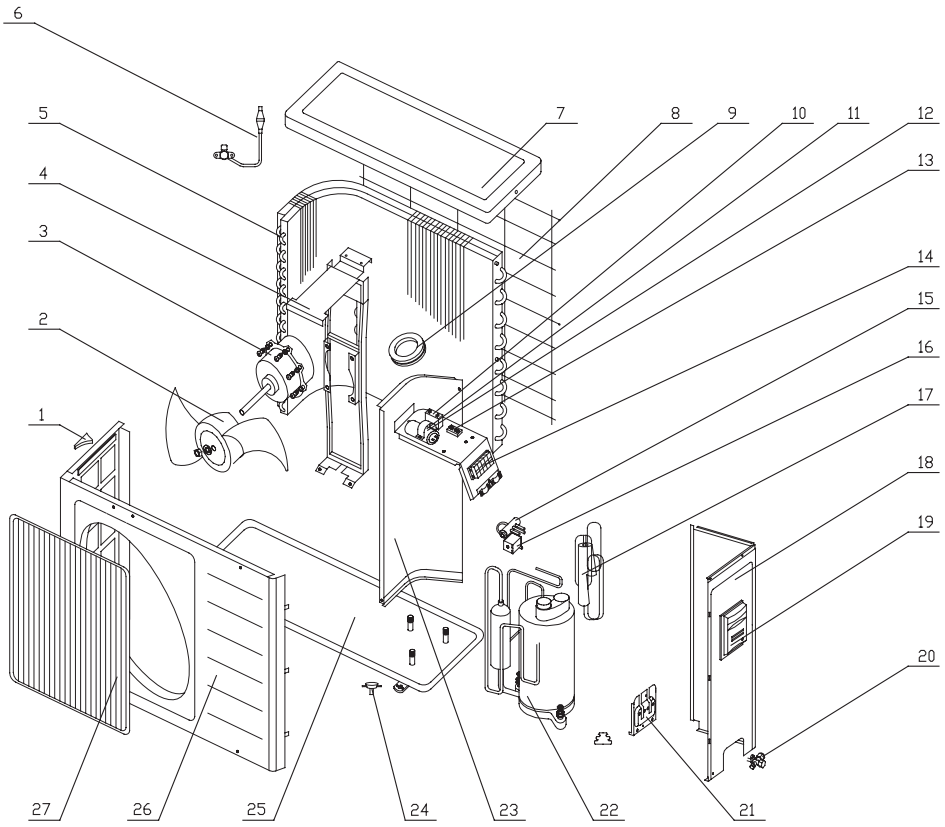


NO	Description	Part Code	Qty
		GWH18MC-K3NNB3A/I	
1	Front Panel Assy	'20012467	1
2	Filter Sub-Assy	'1112208901	2
3	Rear Case assy	'12312214	1
4	Screw Cover	'24252016	3
5	Display Board	'30565037	1
6	Evaporator Assy	'01002575	1
7	Cross Flow Fan	'10352019	1
8	O-Gasket of Cross Fan Bearing	'76512203	1
9	Ring of Bearing	'26152022	1
10	Front Case Sub-Assy	'20012299	1
11	Wall Mounting Frame	'01252218	1
12	Helicoid tongue	'26112177	1
13	Air Louver 1	'10512116	1
14	Axile Bush	'10542008	1
15	Left Axile Bush	'10512037	1
16	Guide Louver	'10512115	1
17	Crank	'10582070	1
18	Step Motor	'15012086	1
19	Air Louver 2	'10512117	1
20	Drainage hose	'05230014	1
21	Pipe Clamp	'26112164	1
22	Fan Motor	'15012113	1
23	Motor Press Plate	'26112178	1
24	Electric Box	'20112078	1
25	Main Board	'30135228	1
26	Transformer	'43110237	1
27	Connecting Cable	'4002053603	1
28	Electric Box Cover1	'20122099	1
29	Shield cover of Electric Box	'01592070	1
30	Electric Box Cover2	'20112081	1
31	Tube Sensor	'390000591	1
32	Ambient Temperature Sensor	'390000451	1
33	Remote Controller	'30510041	1
34	Connecting Cable	'400205402	1
35	Power Cord	'400203253	1
36	Rubber Plug (Water Tray)	'76712012	1

The above data are subject to be changed without notice.

8.24 Explosive view and spare Parts list of outdoor unit

Applicable to: GWH18MC-K3NNB3A(GWH18MC-K3NNA3A/O):

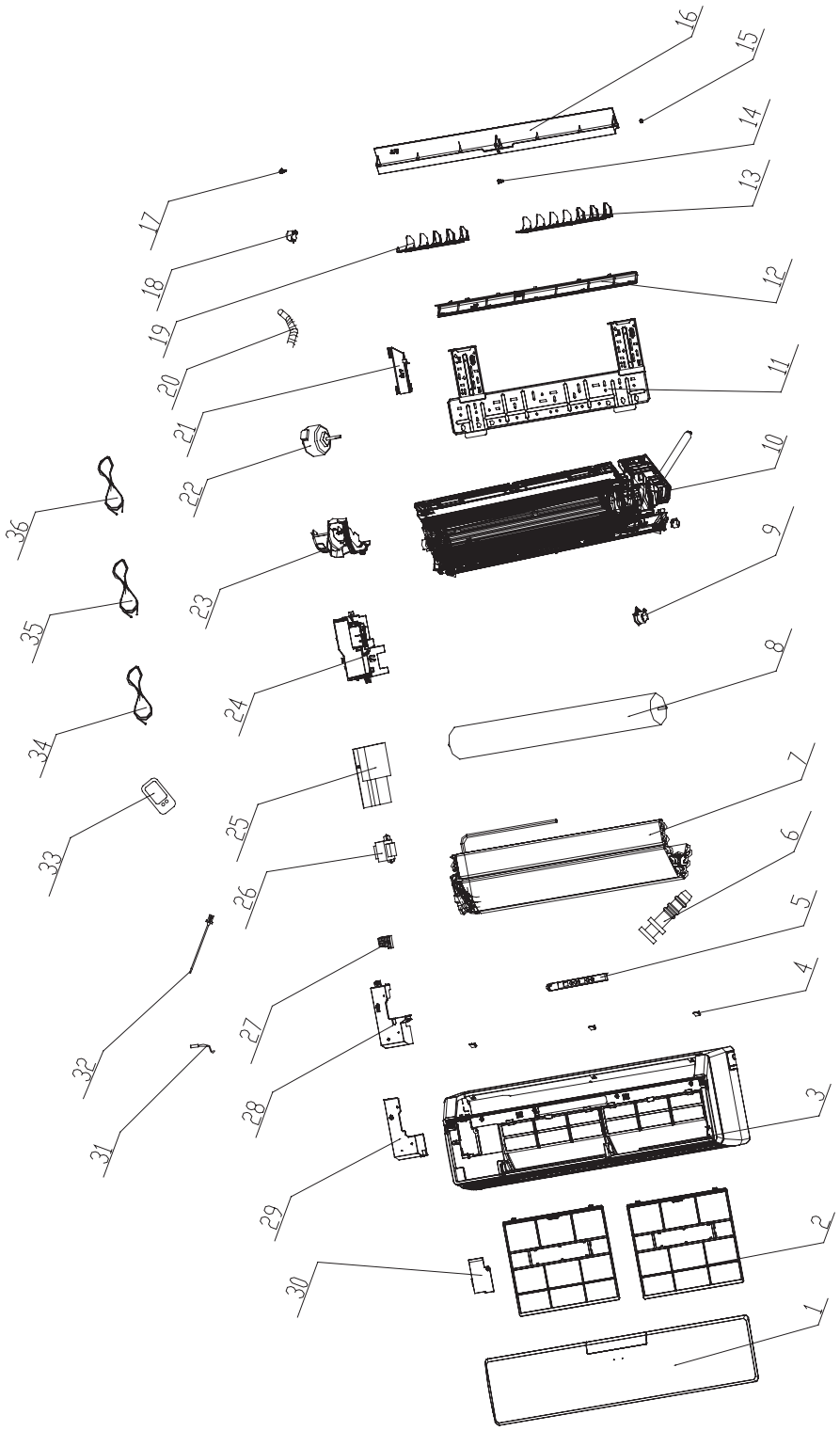


NO	Description	Part Code	Qty
		GWH18MC-K3NNA3A/O	
1	left handle	'26235401	1
2	Axial Flow Fan	'10335257	1
3	Fan Motor	'15015057	1
4	Motor Support	'01705003	1
5	Condenser Assy	'01113238	1
6	Valve	'07100003	1
7	Top Cover	'01255001	1
8	Rear Grill	'01475004	1
9	Drainage Plug	'06813401	3
10	Capacitor CBB65	'33000039	1
11	Electric Box Assy	'02603068	1
12	Capacitor CBB61	'33010026	1
13	Terminal Board	'42011147	1
14	Terminal Board	'42010265	1
15	4-way Valve Assy	'03023870	1
16	Magnet Coil	'430004002	1
18	Capillary Sub-Assy	'03103780	1
18	Right Side Plate	'01305013	1
19	Handle	'26235254	1
20	Cut-off Valve	'07130213	1
21	Valve Support Sub-Assy	'01713075	1
22	Compressor and fittings	'00103007	1
23	Clapboard Sub-Assy	'01233035	1
24	Drainage Connecter	'06123401	1
25	Chassis Sub-assy	'0120362602P	1
26	Front Panel	'01305015	1
27	Front grill	'22415001	1

The above data are subject to be changed without notice.

8.25 Explosive view and spare Parts list of indoor unit

Applicable to: GWH18MC-K3NNA3B/I:

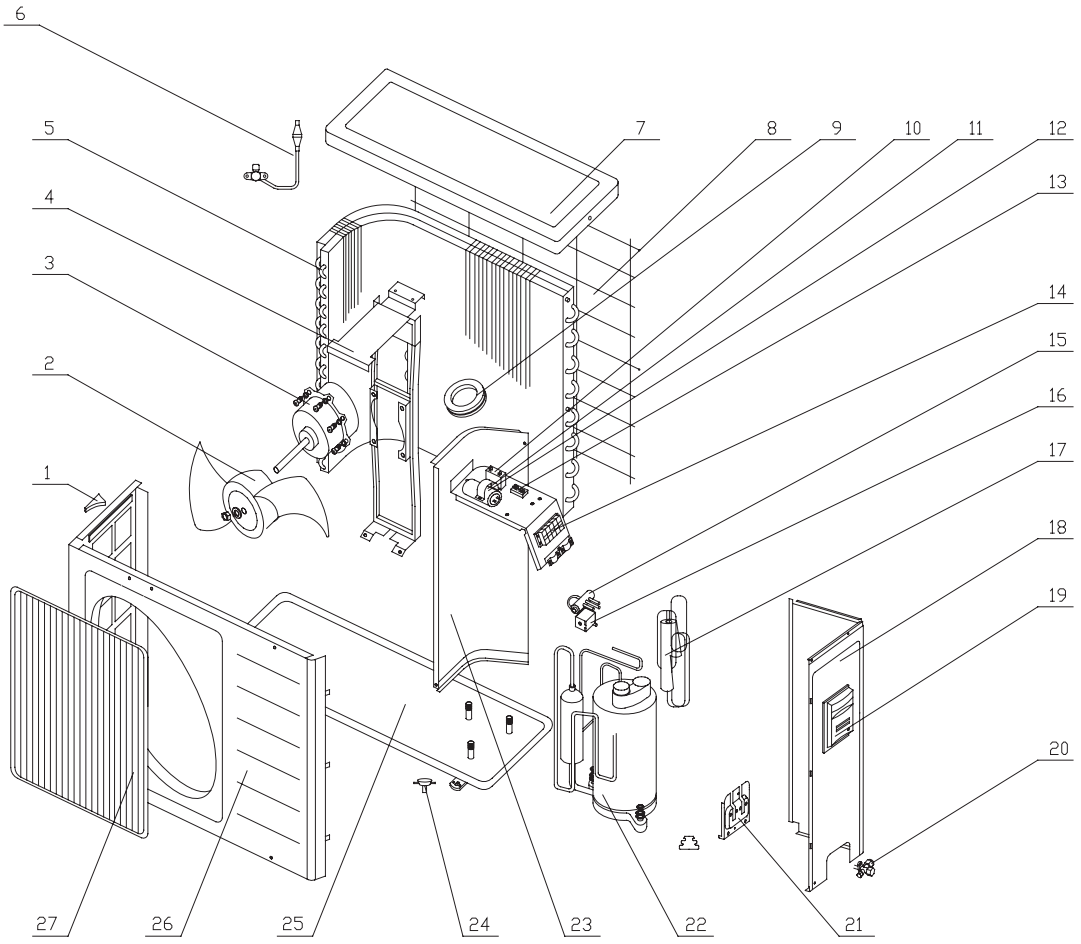


NO	Description	Part Code	Qty
		GWH18MC-K3NNA3B/I	
1	Front Panel Assy	20012260	1
2	Filter Sub-Assy	1112208901	2
3	Front Case Sub-Assy	20012288	1
4	Screw Cover	24252016	3
5	Display Board	30565038	1
6	Rubber Plug (Water Tray)	76712012	1
7	Evaporator Assy	01002590	1
8	Cross Flow Fan	10352019	1
9	Ring of Bearing	26152022	1
10	Rear Case assy	12312214	1
11	Wall Mounting Frame	01252218	1
12	Helicoid tongue	26112177	1
13	Air Louver 1	10512116	1
14	Axile Bush	10542008	1
15	Left Axile Bush	10512037	1
16	Guide Louver	10512115	1
17	Crank	10582070	1
18	Step Motor	15012086	1
19	Air Louver 2	10512117	1
20	Drainage hose	05230014	1
21	Pipe Clamp	26112164	1
22	Fan Motor	15012113	1
23	Motor Press Plate	26112178	1
24	Electric Box	20112078	1
25	Main Board	30135228	1
26	Transformer	43110237	1
27	Terminal Board	42010268	1
28	Electric Box Cover1	20122099	1
29	Shield cover of Electric Box	01592070	1
30	Electric Box Cover2	20112081	1
31	Tube Sensor	390000591	1
32	Ambient Temperature Sensor	390000451	1
33	Remote Controller	30510041	1
34	Connecting Cable	400205402	1
35	Connecting Cable	4002053603	1
36	Power Cord	400204912	1

The above data are subject to be changed without notice.

8.26 Explosive view and spare Parts list of outdoor unit

Applicable to: GWH18MC-K3NNA3B/O:

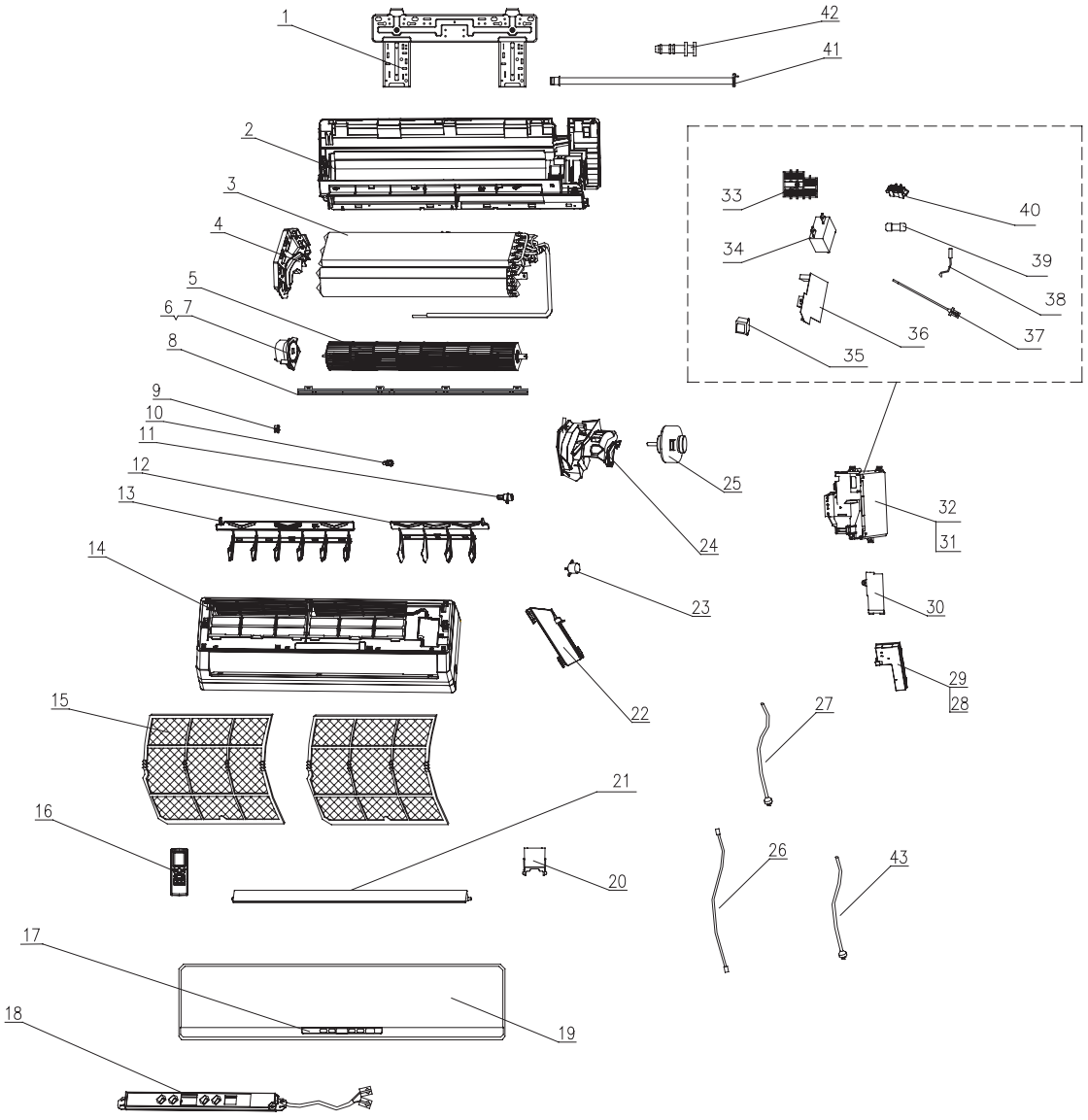


NO	Description	Part Code	Qty
		GWH18MC-K3NNA3B/O	
1	left handle	26235401	1
2	Axial Flow Fan	10335261	1
3	Fan Motor	15015057	1
4	Motor Support Sub-Assy	0170510702	1
5	Condenser Assy	01113238	1
6	/	/	/
7	Top Cover	01255001	1
8	Rear Grill	01475004	1
9	Drainage Plug	06813401	3
10	Capacitor CBB65	33000039	1
11	Electric Box Assy	0260306802	1
12	Capacitor CBB61	33010027	1
13	Terminal Board	42011147	1
14	Terminal Board	42010265	1
15	4-way Valve Assy	03023870	1
16	Magnet Coil	430004002	1
17	Capillary Sub-Assy	03103780	1
18	Right Side Plate	01305013	1
19	Handle	26235254	1
20	Cut-off Valve	07130213	1
21	Valve Support Sub-Assy	01713075	1
22	Compressor and fittings	00103007	1
23	Clapboard Sub-Assy	01233035	1
24	Drainage Connecter	06123401	1
25	Chassis Sub-assy	0120362602P	1
26	Front Panel	01305015	1
27	Front grill	22415001	1

The above data are subject to be changed without notice.

8.27 Explosive view and spare Parts list of indoor unit

Applicable to: GWH12MB-K3NNA2C/I:

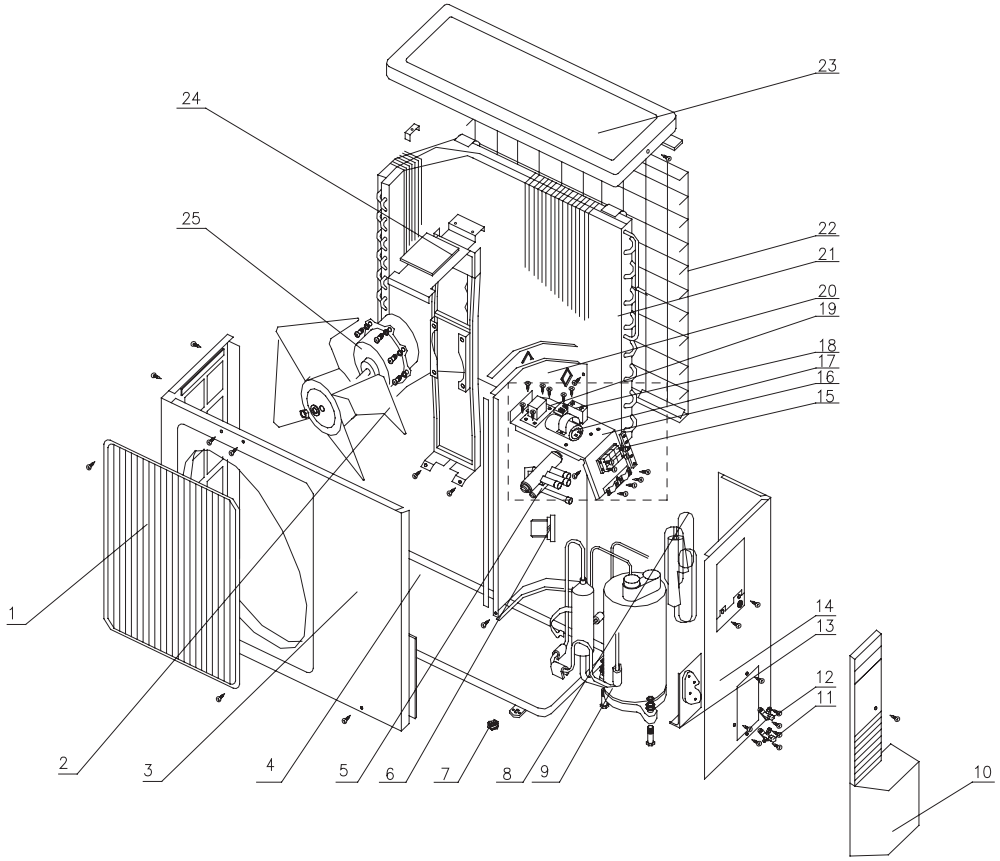


NO	Description	Part Code	Qty
		GWH12MB-K3NNA2C/I	
1	Wall Mounting Frame	'01252013	1
2	Rear Case assy	'2220210301	1
3	/	/	/
4	Evaporator Support	'24212091	1
5	Cross Flow Fan	'10352017	1
6	O-Gasket of Cross Fan Bearing	'76512203	1
7	O-Gasket sub-assy of Bearing	'76512051	1
8	Helicoid tongue	'26112163	1
10	Crank	'10582070	1
11	Axile Bush	'10542008	1
12	Air Louver 1	'10512156	1
13	Air Louver 2	'10512155	1
14	Front Case Sub-Assy	'20012139	1
15	Filter Sub-Assy	'1112220401	2
16	Remote Controller	'30510041	1
17	Decorative Board	'20192265	1
18	Display Board	'30565056	1
19	Front panel D1	'20012150S	1
20	Screw Cover	'24252016	1
21	Guide Louver	'10512157	1
22	Pipe Clamp	'26112164	1
23	Step Motor	'1521210801	1
24	Motor Press Plate	'26112161	1
25	Fan Motor	'150120874	1
26	Connecting Cable	'40020536	1
27	Connecting Cable	'400205401	1
28	Electric Box Cover1	'20122103	1
29	Shield cover of Electric Box sub-	'01592073	1
30	Electric Box Cover2	'20122075	1
31	Electric Box	'20112082	1
32	Electric Box Assy	'2020207607	1
33	Terminal Board	'42010262	1
34	/	/	/
35	Transformer	'43110236	1
36	Main Board	'30035564	1
37	Ambient Temperature Sensor	'390000453	1
38	Tube Sensor	'390000591	1
39	/	/	/
40	Jumper	'4202300130	1
41	Drainage hose	'0523001401	1
42	Rubber Plug (Water Tray)	'76712012	1
43	Power Cord	'400220112	1

The above data are subject to be changed without notice.

8.28 Explosive view and spare Parts list of outdoor unit

Applicable to: GWH12MB-K3NNA2C/O:

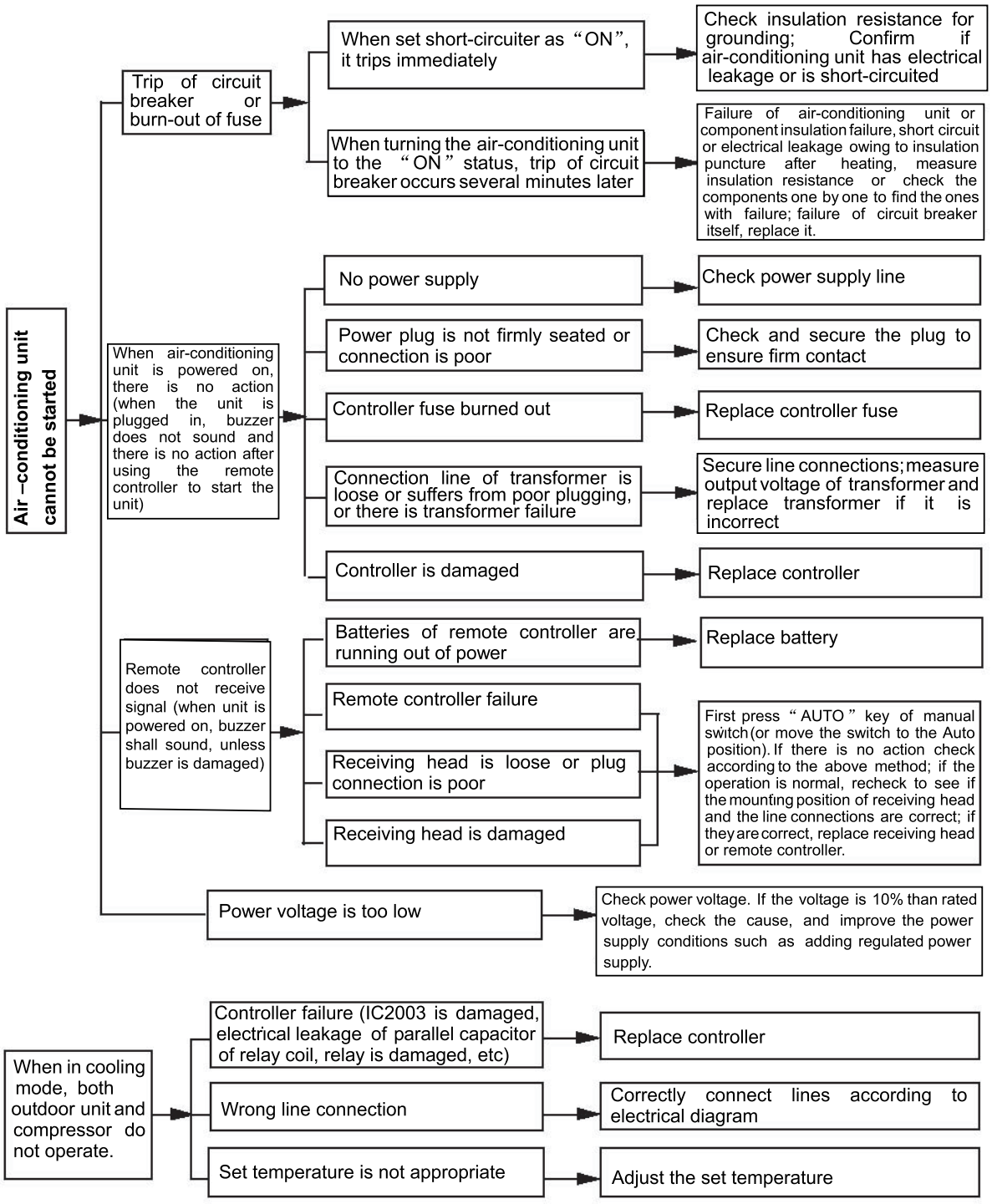


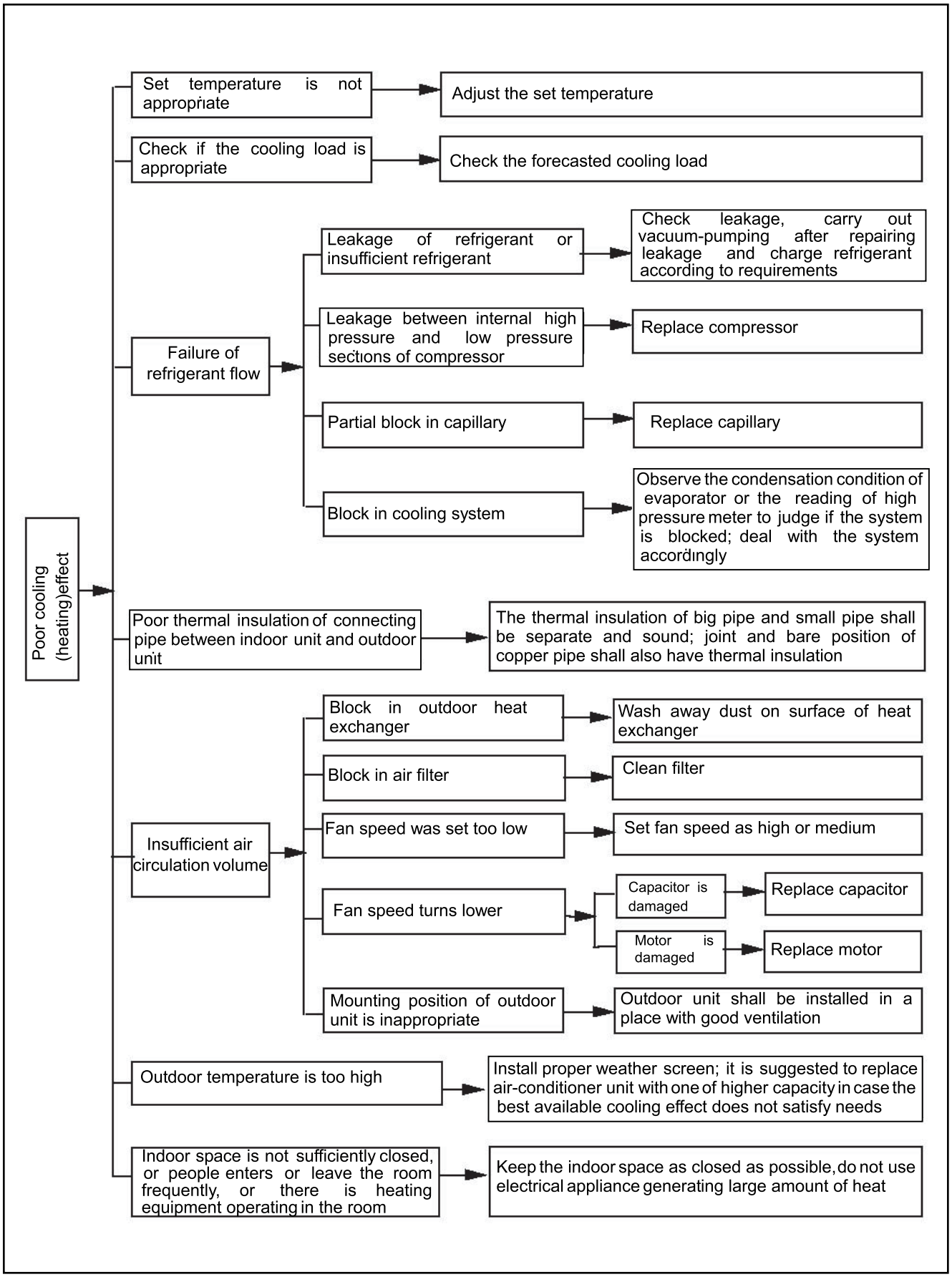
NO	Description	Part Code	Qty
		GWH12MB-K3NNA2C/O	
1	Front grill	'22413431	1
2	Axial Flow Fan	'10333004	1
3	Front Panel	'015330124	1
4	Chassis Sub-assy	'0120324515	1
5	4-way Valve Assy	'03123215	1
6	Magnet Coil	'430004002	1
7	Drainage Connecter	'06123401	1
8	Capillary Sub-Assy	'0310389601	1
9	Compressor and fittings	'00103219	1
10	Big Handle	'26233433	1
11	Valve	'07100003	1
12	Valve	'07100006	1
13	Valve Support	'01713041	1
14	Right Side Plate Assy	'0130200404	1
15	Terminal Board	'42010265	1
16	Electric Box Sub-Assy	'01403842	1
17	Capacitor CBB65	'33010743	1
18	Capacitor CBB61	'33010026	1
19	Terminal Board	'42011147	1
20	Clapboard Sub-Assy	'012334172	1
21	Condenser Assy	'0111334401	1
22	Rear Grill	'01473014	1
23	Top Cover Sub-Assy	'01253261	1
24	Motor Support Sub-Assy	'017030501	1
25	Fan Motor	'150130676	1

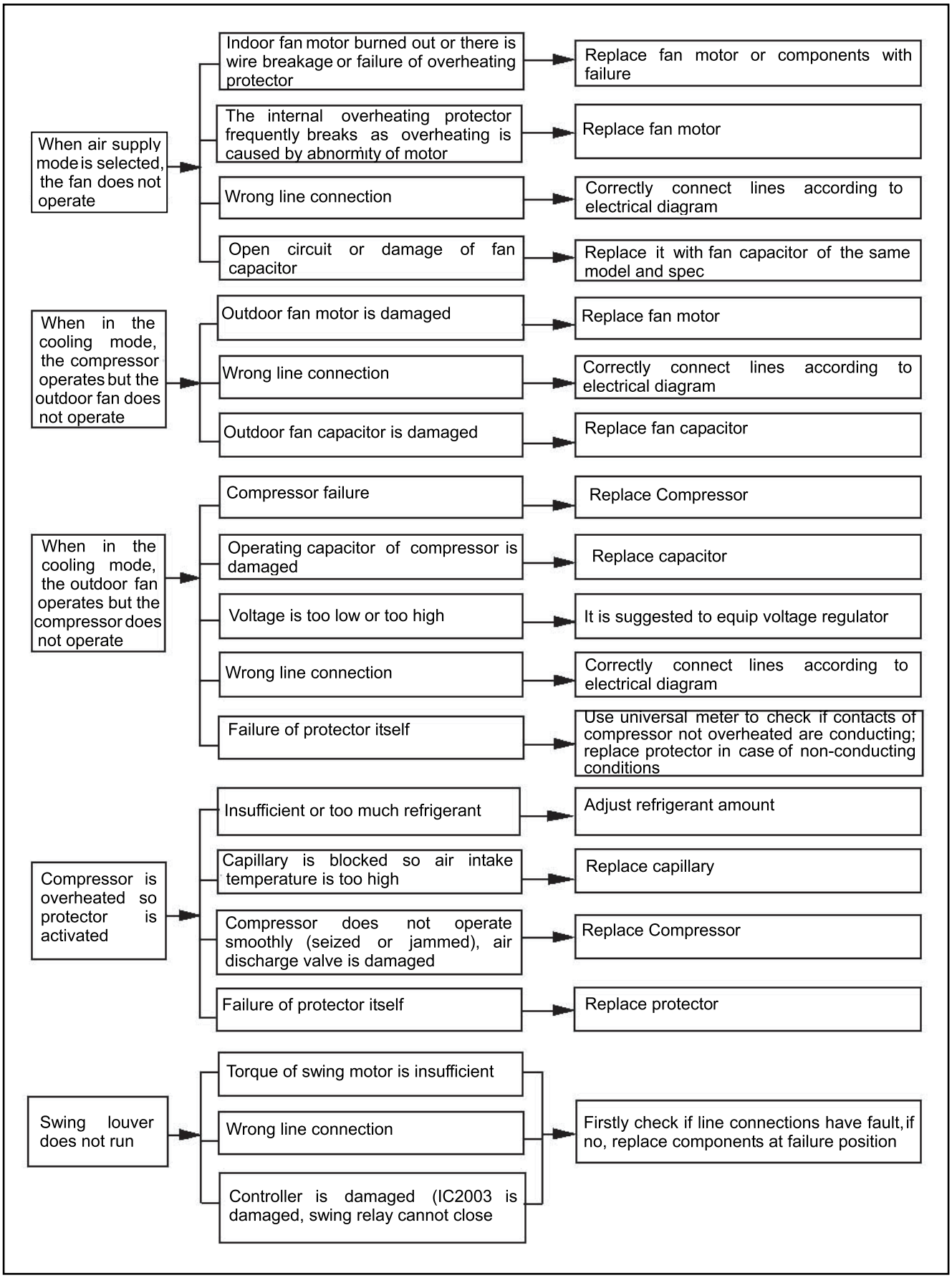
The above data are subject to be changed without notice.

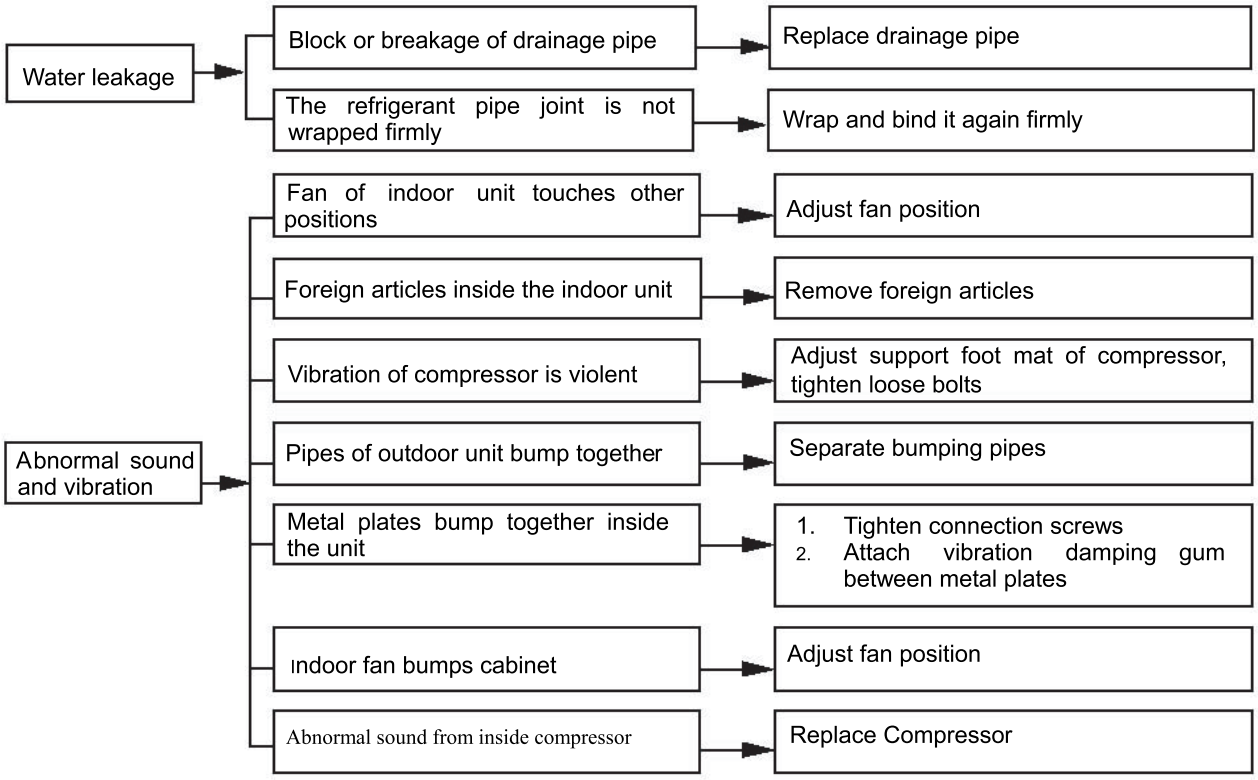
9 Troubleshooting

Note: when replacing the controller, the jumper cap of this controller shall be inserted into the new controller, otherwise the running indicating light will be turned off for 3 seconds and twinkle 15 times (the indicating light with double 8 display displays C5 at the same time), and the machine can not be started in a normal manner.




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


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



Locked-rotor protection H6 of PG motor:

Possible reasons:

1. The fan speed is too low due to tuyere blockage;
2. Fan blade get stuck;
3. Motor get stuck;
4. The motor capacitance is damaged;
5. Motor damage (foreign odor, open winding circuit or short winding circuit are all abnormal conditions, and when measuring the winding resistance, note if the temperature of the motor casing is too high causing thermal protection action);
6. Hall integrated circuit plate is damaged (in normal function, both output and input have voltages).
7. The main board is damaged.
8. Thermal protection of the motor.

Handling methods:

1. Remove barriers.
2. Reassembling;
3. Motor replacement;
4. Capacitance replacement;
5. Motor replacement;
6. Circuit board replacement;
7. Main board replacement;
8. In normal conditions, the motor does not protect itself. However, in other abnormal conditions, when motor load is too heavy due to evaporator dirt and fan blade dust, thermal protection occurs frequently in operation process. The solutions depend on specific reasons, cleaning whatever should be cleaned and replacing whatever should be replaced.