

# 1 Introduction and Features



18K outdoor unit



24K,36K outdoor unit



Model	Remarks
GVCN18AANK1A1A GVCN24AANK1A1A GVHN18AANK1A1A GVHN24AANK1A1A	1PH 220-240V~ 50Hz R22
GVCN36ABNM1A1A GVHN36ABNM1A1A	1PH 380-415V 3N~ 50Hz R22



36K,48K outdoor unit



Model	Remarks
GVCN36ABND1A1A GVHN36ABND1A1A	1PH 208-230V~ 60Hz R22
GVCN36ABNK1A1A GVHN36ABNK1A1A	1PH 220-240V~ 50Hz R22
GVHN48ABNM1A1A	1PH 380-415V 3N~ 50Hz R22

## 2 Specifications and Tehcnical Parameters

Model	GVCN18AANK1A1A	GVCN24AANK1A1A	
Function	COOLING	COOLING	
Rated Voltage	1PH 220-240V~	1PH 220-240V~	
Rated Frequency	50HZ	50Hz	
Total Capacity (W/Btu/h)	5280 (W)/ 18000(Btu/h)	7038 (W)/ 24000(Btu/h)	
Power Input (W)	2550	2600	
Rated Input (W)	1880	3350	
Rated Current (A)	8.17	17.91	
Air Flow Volume (m <sup>3</sup> /h)	880	1100	
Dehumidifying Volume (l/h)	3	3	
EER / C.O.P (W/W)	2.8	2.71	
Energy Class	/	/	
Indoor unit	Model of Indoor Unit	GVCN18AANK1A1A/I	GVCN24AANK1A1A/I
	Fan Motor Speed (r/min) (SH/H/ML)	450/400/360/330	510/450/425/390
	Output of Fan Motor (w)	35	50
	Input of Heater (w)	/	/
	Fan Motor Capacitor (uF)	3	4.5
	Fan Motor RLA(A)	0.6	0.85
	Fan Type-Piece	Centrifugal fan – 1	Centrifugal fan – 1
	Diameter-Length (mm)	Ø350X130	Ø350X130
	Evaporator	Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)	Ø7	Ø7
	Row-Fin Gap(mm)	2-1.6	2-1.3
	Coil length (l) x height (H) x coil width (L)	686X370X25.4	724X381X25.4
	Swing Motor Model	SM016	SM016
	Output of Swing Motor (W)	4	4
	Fuse (A)	PCB 5A Transformer 0.2A	PCB 5A Transformer 0.2A
	Sound Pressure Level dB (A) (SH/H/ML)	46/43/40/37	47/45/43/40
	Sound Power Level dB (A) (SH/H/ML)	46/43/40/37	57/55/53/50
	Dimension (W/H/D) ( mm)	480 X1680X271	500X1721X296
	Dimension of Package (L/W/H) ( mm)	610X1852X375	1904 X650 X 416
	Net Weight /Gross Weight (kg)	32/45	45/58

Outdoor unit	Model of Outdoor Unit		GVCN18AANK1A1A/O	GVCN24AANK1A1A/O
	Compressor Manufacturer/trademark		melanda	Mitsubishi Electric/ Mitsubishi
	Compressor Model		QX-34F050g	LH42VBDC
	Compressor Type		rotary compressor	rotary compressor
	L.R.A. (A)		46.5	59
	Compressor RLA(A)		8.7	11.2
	Compressor Power Input(W)		1850	2398
	Overload Protector		built in	built in
	Throttling Method		Capillary	Capillary
	Starting Method		Capacitor	Capacitor
	Working Temp Range (°C)		-7°C ≤ T ≤ 43°C	-7°C ≤ T ≤ 43°C
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		Ø7	Ø7
	Rows-Fin Gap(mm)		2-1.4	2-1.4
	Coil length (l) x height (H) x coil width (L)		651X613X25.4	756X648X25.4
	Fan Motor Speed (rpm)		780	860
	Output of Fan Motor (W)		68	48
	Fan Motor RLA(A)		0.63	0.43
	Fan Motor Capacitor (uF)		2.5	3.5
	Air Flow Volume of Outdoor Unit		/	/
	Fan Type-Piece		Axial fan -1	Axial fan -1
	Fan Diameter (mm)		Ø460	Ø473
	Defrosting Method		Auto defrost	/
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	2.5
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	0.6
	Sound Pressure Level dB (A) (H/ML)		55	56
	Sound Power Level dB (A) (H/ML)		65	66
Dimension (W/H/D) (mm)		913X378X680	1018X700X412	
Dimension of Package (L/W/H)(mm)		994X428X720	1100X450 X755	
Net Weight /Gross Weight (kg)		46/50	59/64	
Refrigerant Charge (kg)		R22 /1.3	R22 /1.6	
Conne <sup>c</sup> tion Pipe	Length (m)		4	4
	Gas additional charge(g/m)		0	0
	Outer Diameter	Liquid Pipe (mm)	Ø6	Ø9.52(3/8")
		Gas Pipe (mm)	Ø12	Ø16(5/8")
	Max Distance	Height (m)	5	5
Length (m)		10	10	
The above data are subject to change without notice. Please refer to the nameplate on the unit.				

## Cooling Bay Series

Model	GVHN18AANK1A1A		GVHN24AANK1A1A		
Function	COOLING	HEATING	COOLING	HEATING	
Rated Voltage	1PH 220-240V~		1PH 220-240V~		
Rated Frequency	50HZ		50Hz		
Total Capacity (W/Btu/h)	5280 (W)/ 18000(Btu/h)	5850 (W)/ 19949(Btu/h)	7038 (W)/ 24000(Btu/h)	7742 (W)/ 26400(Btu/h)	
Power Input (W)	2550	2350	2650	2470	
Rated Input (W)	1880	1800	3350	3420	
Rated Current (A)	8.17	7.83	17.91	18.29	
Air Flow Volume (m <sup>3</sup> /h)	880		1100		
Dehumidifying Volume (l/h)	3		3		
EER / C.O.P (W/W)	2.80/3.25		2.66/3.13		
Energy Class	/		/		
Indoor unit	Model of Indoor Unit	GVHN18AANK1A1A/I		GVHN24AANK1A1A/I	
	Fan Motor Speed (r/min) (SH/H/ML)	450/400/360/330	450/400/360/330	510/450/425/390/	510/450/425/390/
	Output of Fan Motor (w)	35		50	
	Input of Heater (w)	/		/	
	Fan Motor Capacitor (uF)	3		4.5	
	Fan Motor RLA(A)	0.6		0.85	
	Fan Type-Piece	Centrifugal fan – 1		Centrifugal fan – 1	
	Diameter-Length (mm)	Ø350X130		Ø350X130	
	Evaporator	Aluminum fin-copper tube		Aluminum fin-copper tube	
	Pipe Diameter (mm)	Ø7		Ø7	
	Row-Fin Gap(mm)	2-1.6		2-1.3	
	Coil length (l) x height (H) x coil width (L)	686X370X25.4		724X381X25.4	
	Swing Motor Model	SM016		SM016	
	Output of Swing Motor (W)	4		4	
	Fuse (A)	PCB 5A Transformer 0.2A		PCB 5A Transformer 0.2A	
	Sound Pressure Level dB (A) (SH/H/ML)	46/43/40/37		47/45/43/40	
	Sound Power Level dB (A) (SH/H/ML)	46/43/40/37		57/55/53/50	
	Dimension (W/H/D) ( mm)	480 X1680X271		500X1721X296	
	Dimension of Package (L/W/H) ( mm)	610X1852X375		1904X650 X 416	
	Net Weight /Gross Weight (kg)	32/45		45/58	

Outdoor unit	Model of Outdoor Unit	GVHN18AANK1A1A/O	GVHN24AANK1A1A/O	
	Compressor Manufacturer/trademark	melanda	Mitsubishi Electric/ Mitsubishi	
	Compressor Model	QX-34F050g	LH42VBDC	
	Compressor Type	rotary compressor	rotary compressor	
	L.R.A. (A)	46.5	59	
	Compressor RLA(A)	8.7	11.2	
	Compressor Power Input(W)	1850	2398	
	Overload Protector	built in	built in	
	Throttling Method	Capillary	Capillary	
	Starting Method	Capacitor	Capacitor	
	Working Temp Range (°C)	-7°C ≤ T ≤ 43°C	-7°C ≤ T ≤ 43°C	
	Condenser	Aluminum fin-copper tube	Aluminum fin-copper tube	
	Pipe Diameter (mm)	Ø7	Ø9.52	
	Rows-Fin Gap(mm)	2-1.4	2-1.5	
	Coil length (l) x height (H) x coil width (L)	651X613X25.4	732X660X44	
	Fan Motor Speed (rpm)	780	840	
	Output of Fan Motor (W)	68	68	
	Fan Motor RLA(A)	0.63	0.65	
	Fan Motor Capacitor (uF)	2.5	3.5	
	Air Flow Volume of Outdoor Unit	/	/	
	Fan Type-Piece	Axial fan -1	Axial fan -1	
	Fan Diameter (mm)	Ø460	Ø472	
	Defrosting Method	Auto defrost	/	
	Climate Type	T1	T1	
	Isolation	I	I	
	Moisture Protection	IP24	IP24	
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)	2.5	2.5	
	Permissible Excessive Operating Pressure for the Suction Side(MPa)	0.6	0.6	
	Sound Pressure Level dB (A) (H/ML)	55	56	
	Sound Power Level dB (A) (H/ML)	65	66	
Dimension (W/H/D) (mm)	913X378X680	1018X700X412		
Dimension of Package (L/W/H)(mm)	994X428X720	1100X755X450		
Net Weight /Gross Weight (kg)	46/50	59/64		
Refrigerant Charge (kg)	R22 /1.35	R22 /2.2		
Connec tion Pipe	Length (m)	4	4	
	Gas additional charge(g/m)	0	0	
	Outer Diameter	Liquid Pipe (mm)	Ø6	Ø9.52(3/8")
		Gas Pipe (mm)	Ø12	Ø16(5/8")
	Max Distance	Height (m)	5	5
Length (m)		10	10	
The above data are subject to change without notice. Please refer to the nameplate on the unit.				

Model	GVHN36ABNM1A1A		GVHN48ABNM1A1A		
Function	COOLING	HEATING	COOLING	HEATING	
Rated Voltage	380-415V 3N~		380-415V 3N~		
Rated Frequency	50HZ		50HZ		
Total Capacity (W/Btu/h)	10550 (W)/ 36000(Btu/h)	11000	12310 (W)/ 42000(Btu/h)	12310	
Power Input (W)	4000	3900	4900	4500	
Rated Input (W)	5400	5300	6100	5800	
Rated Current (A)	10.6	10.4	12	11.4	
Air Flow Volume (m <sup>3</sup> /h)	1950		1800		
Dehumidifying Volume (l/h)	4		4		
EER / C.O.P (W/W)	2.64/2.82		2.51/2.74		
Energy Class	/		/		
Indoor unit	Model of Indoor Unit	GVHN36ABNM1A1A/I		GVHN48ABNM1A1A/I	
	Fan Motor Speed (r/min) (SH/H/ML)	550/490/440/390	550/490/440/390	500/450/400/360	500/450/400/360
	Output of Fan Motor (w)	120		120	
	Input of Heater (w)	3500		3500	
	Fan Motor Capacitor (uF)	6		6	
	Fan Motor RLA(A)	0.58		0.58	
	Fan Type-Piece	Centrifugal fan – 1		Centrifugal fan – 1	
	Diameter-Length (mm)	Ø379X180.5		Ø379X180.5	
	Evaporator	Aluminum fin-copper tube		Aluminum fin-copper tube	
	Pipe Diameter (mm)	Ø7		Ø7	
	Row-Fin Gap(mm)	2-1.5		3-1.5	
	Coil length (l) x height (H) x coil width (L)	838.2X430X25.4		839.5X430X38.1	
	Swing Motor Model	SM016		SM016	
	Output of Swing Motor (W)	4		4	
	Fuse (A)	PCB 5A Transformer 0.2A		PCB 5A Transformer 0.2A	
	Sound Pressure Level dB (A) (SH/H/ML)	51/49/47/45		51/48/45/42	
	Sound Power Level dB (A) (SH/H/ML)	61/59/57/55		61/58/55/52	
	Dimension (W/H/D) ( mm)	540 X1825X380		540 X1825X380	
	Dimension of Package (L/W/H) ( mm)	670X2010X495		670X2010X495	
	Net Weight /Gross Weight (kg)	53/67		53/67	

Outdoor unit	Model of Outdoor Unit	GVHN36ABNM1A1A/O	GVHN48ABNM1A1A/O	
	Compressor Manufacturer/trademark	DAKIN	DAKIN	
	Compressor Model	JT125GABY1L	JT160GABY1L	
	Compressor Type	SCROLL	SCROLL	
	L.R.A. (A)	47.8	58	
	Compressor RLA(A)	6	7.5	
	Compressor Power Input(W)	3440	4300	
	Overload Protector	/	/	
	Throttling Method	Capillary	Capillary	
	Starting Method	/	/	
	Working Temp Range (°C)	-50	-50	
	Condenser	Aluminum fin-copper tube	Aluminum fin-copper tube	
	Pipe Diameter (mm)	Ø9.52	Ø9.52	
	Rows-Fin Gap(mm)	2-1.4	2-1.6	
	Coil length (l) x height (H) x coil width (L)	975X813X44	730X1218X44	
	Fan Motor Speed (rpm)	920	830	
	Output of Fan Motor (W)	92	68	
	Fan Motor RLA(A)	0.84	0.3	
	Fan Motor Capacitor (uF)	3.5	3.5	
	Air Flow Volume of Outdoor Unit	2500	4000	
	Fan Type-Piece	Axial fan -1	Axial fan -2	
	Fan Diameter (mm)	Ø482	Ø472	
	Defrosting Method	Auto defrost	Auto defrost	
	Climate Type	T1	T1	
	Isolation	I	I	
	Moisture Protection	IP24	IP24	
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)	2.5	2.5	
	Permissible Excessive Operating Pressure for the Suction Side(MPa)	0.6	0.6	
	Sound Pressure Level dB (A) (H/ML)	59	59	
	Sound Power Level dB (A) (H/ML)	67	67	
Dimension (W/H/D) (mm)	1050X840X410	1032X1250X412		
Dimension of Package (L/W/H)(mm)	1100X880X450	1110X1280X450		
Net Weight /Gross Weight (kg)	90/104	112/133		
Refrigerant Charge (kg)	R22/ 3.3	R22/4.1		
Conne <sup>c</sup> tion Pipe	Length (m)	5	5	
	Gas additional charge(g/m)	0	0	
	Outer Diameter	Liquid Pipe (mm)	Ø12	Ø12
		Gas Pipe (mm)	Ø19	Ø19
	Max Distance	Height (m)	5	5
Length (m)		10	10	
<b>The above data are subject to change without notice. Please refer to the nameplate on the unit.</b>				



Model		GVCN36ABNM1A1A	
Function		COOLING	HEATING
Rated Voltage		380-415V 3N~	
Rated Frequency		50HZ	
Total Capacity (W/Btu/h)		10550 (W)/ 36000(Btu/h)	-
Power Input (W)		4000	-
Rated Input (W)		5400	-
Rated Current (A)		10.6	-
Air Flow Volume (m <sup>3</sup> /h)		1950	
Dehumidifying Volume (l/h)		4	
EER / C.O.P (W/W)		2.64	
Energy Class		/	
Indoor unit	Model of Indoor Unit		GVCN36ABNM1A1A/I
	Fan Motor Speed (r/min) (SH/H/ML)		550/490/440/390
	Output of Fan Motor (w)		120
	Input of Heater (w)		-
	Fan Motor Capacitor (uF)		6
	Fan Motor RLA(A)		1.38
	Fan Type-Piece		Centrifugal fan – 1
	Diameter-Length (mm)		Ø379X180.5
	Evaporator		Aluminum fin-copper tube
	Pipe Diameter (mm)		Ø7
	Row-Fin Gap(mm)		2-1.5
	Coil length (l) x height (H) x coil width (L)		838.2X430X25.4
	Swing Motor Model		SM016
	Output of Swing Motor (W)		4
	Fuse (A)		PCB 5A Transformer 0.2A
	Sound Pressure Level dB (A) (SH/H/ML)		51/49/47/45
	Sound Power Level dB (A) (SH/H/ML)		61/59/57/55
	Dimension (W/H/D) ( mm)		540 X1825X380
	Dimension of Package (L/W/H) ( mm)		670X2010X495
	Net Weight /Gross Weight (kg)		53/67

Outdoor unit	Model of Outdoor Unit		GVCN36ABNM1A1A/O
	Compressor Manufacturer/trademark		DAKIN
	Compressor Model		JT125GABY1L
	Compressor Type		SCROLL
	L.R.A. (A)		47.8
	Compressor RLA(A)		6
	Compressor Power Input(W)		3440
	Overload Protector		/
	Throttling Method		Capillary
	Starting Method		/
	Working Temp Range (°C)		-50
	Condenser		Aluminum fin-copper tube
	Pipe Diameter (mm)		Ø9.52
	Rows-Fin Gap(mm)		2-1.4
	Coil length (l) x height (H) x coil width (L)		975X813X44
	Fan Motor Speed (rpm)		920
	Output of Fan Motor (W)		92
	Fan Motor RLA(A)		0.84
	Fan Motor Capacitor (uF)		3.5
	Air Flow Volume of Outdoor Unit		2500
	Fan Type-Piece		Axial fan -1
	Fan Diameter (mm)		Ø482
	Defrosting Method		Auto defrost
	Climate Type		T1
	Isolation		I
	Moisture Protection		IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5
Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	
Sound Pressure Level dB (A) (H/ML)		59	
Sound Power Level dB (A) (H/ML)		67	
Dimension (W/H/D) ( mm)		1050x840x410	
Dimension of Package (L/W/H)( mm)		1100/880/450	
Net Weight /Gross Weight (kg)		90/104	
Refrigerant Charge (kg)		R22/3.3	
Connec tion Pipe	Length (m)		5
	Gas additional charge(g/m)		0
	Outer Diameter	Liquid Pipe (mm)	Ø12
		Gas Pipe (mm)	Ø19
	Max Distance	Height (m)	5
	Length (m)	10	
<b>The above data are subject to change without notice. Please refer to the nameplate on the unit.</b>			

Model	GVCN36ABND1A1A		GVHN36ABND1A1A	
Function	COOLING	/	COOLING	HEATING
Rated Voltage	208-230V~		208-230V~	
Rated Frequency	60Hz		60Hz	
Total Capacity (W/Btu/h)	10550 (W)/ 36000(Btu/h)	/	10550 (W)/ 36000(Btu/h)	11000 (W)/ 37530(Btu/h)
Power Input (W)	4000	/	4200	4100
Rated Input (W)	5000	/	5000	4600
Rated Current (A)	30.5	/	30.5	28.1
Air Flow Volume (m <sup>3</sup> /h) (H/ML)	1600		1600	
Dehumidifying Volume (l/h)	4		4	
EER / C.O.P (W/W)	2.64		2.51/2.68	
Energy Class	/		/	
Indoor unit	Model of Indoor Unit	GVCN36ABND1A1A/I	GVHN36ABND1A1A/I	
	Fan Motor Speed (r/min) (H/ML)	500/450/400/360		500/450/400/360
	Output of Fan Motor (w)	120		120
	Input of Heater (w)	/		2100
	Fan Motor Capacitor (uF)	6		6
	Fan Motor RLA(A)	0.95		0.95
	Fan Type-Piece	Centrifugal fan – 1		Centrifugal fan – 1
	Diameter-Length (mm)	Ø379X180.5		Ø379X180.5
	Evaporator	Aluminum fin-copper tube		Aluminum fin-copper tube
	Pipe Diameter (mm)	Ø7		Ø7
	Row-Fin Gap(mm)	3-1.5		3-1.5
	Coil length (l) x height (H) x coil width (L)	839.5X430X38.1		839.5X430X38.1
	Swing Motor Model	SM016		SM016
	Output of Swing Motor (W)	4		4
	Fuse (A)	PCB 5A Transformer 0.2A		PCB 5A Transformer 0.2A
	Sound Pressure Level dB (A) (H/ML)	52/49/46/43		52/49/46/43
	Sound Power Level dB (A) (H/ML)	62/59/56/53		62/59/56/53
	Dimension (W/H/D) ( mm)	540 X1825X380		540 X1825X380
Dimension of Package (L/W/H) ( mm)	670X2010X495		670X2010X495	
Net Weight /Gross Weight (kg)	53/67		53/67	

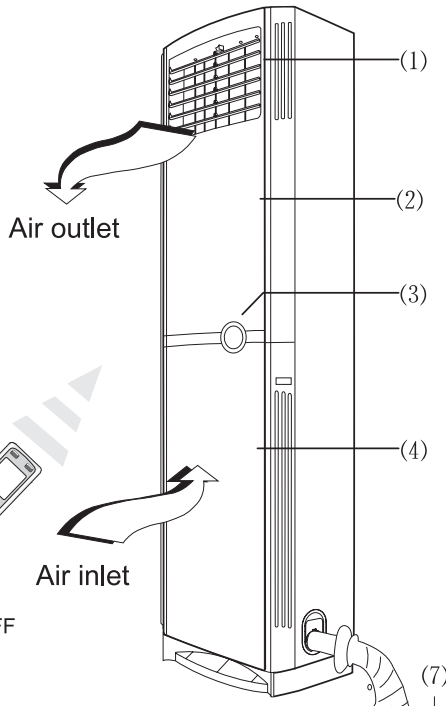
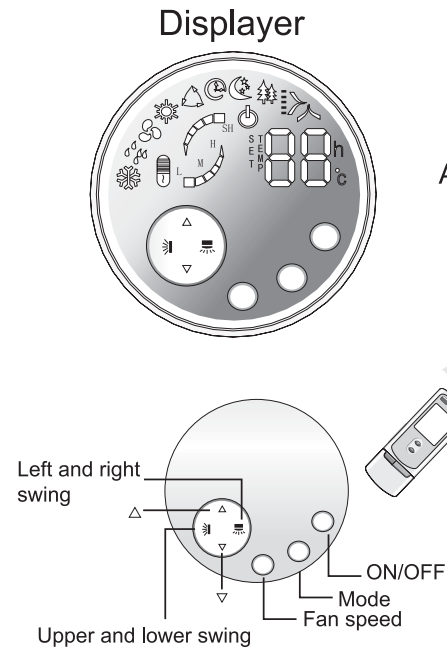
Outdoor unit	Model of Outdoor Unit	GVCN36ABND1A1A/O	GVHN36ABND1A1A/O	
	Compressor Manufacturer/trademark	SANYO	SANYO	
	Compressor Model	C-SB261H6A	C-SB261H6A	
	Compressor Type	SCROLL	SCROLL	
	L.R.A. (A)	130	130	
	Compressor RLA(A)	16.7	16.7	
	Compressor Power Input(W)	3850	3850	
	Overload Protector	/	/	
	Throttling Method	Capillary	Capillary	
	Starting Method	/	/	
	Working Temp Range (°C)	21-43	-7-43	
	Condenser	Aluminum fin-copper tube	Aluminum fin-copper tube	
	Pipe Diameter (mm)	Ø7	Ø7	
	Rows-Fin Gap(mm)	2-1.5	2-1.5	
	Coil length (l) x height (H) x coil width (L)	730X1218X44	730X1218X44	
	Fan Motor Speed (rpm)	830	830	
	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	4000	4000	
	Fan Type-Piece	Axial fan -2	Axial fan -2	
	Fan Diameter (mm)	Ø472	Ø472	
	Defrosting Method	Auto defrost	Auto defrost	
	Climate Type	T1	T1	
	Isolation	I	I	
	Moisture Protection	IP24	IP24	
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)	2.5	2.5	
	Permissible Excessive Operating Pressure for the Suction Side(MPa)	0.6	0.6	
	Sound Pressure Level dB (A) (H/ML)	59	59	
	Sound Power Level dB (A) (H/ML)	67	67	
Dimension (W/H/D) (mm)	1032x1250x412	1032x1250x412		
Dimension of Package (L/W/H)(mm)	1110/1280/450	1110/1280/450		
Net Weight /Gross Weight (kg)	112/123	112/123		
Refrigerant Charge (kg)	R22/3.4 kg	R22/3.1kg		
Connecti on Pipe	Length (m)	5	5	
	Gas additional charge(g/m)	0	0	
	Outer Diameter	Liquid Pipe (mm)	Ø12	Ø12
		Gas Pipe (mm)	Ø19	Ø19
	Max Distance	Height (m)	5	5
Length (m)		10	10	
The above data are subject to change without notice. Please refer to the nameplate on the unit.				

Model	GVCN36ABNK1A1A		GVHN36ABNK1A1A	
Function	COOLING	/	COOLING	HEATING
Rated Voltage	220-240V~		220-240V~	
Rated Frequency	50Hz		50Hz	
Total Capacity (W/Btu/h)	10550 (W)/ 36000(Btu/h)	/	10550 (W)/ 36000(Btu/h)	11000 (W)/ 37530(Btu/h)
Power Input (W)	4000	/	4200	4100
Rated Input (W)	5000	/	5000	4600
Rated Current (A)	28.8	/	28.8	26.5
Air Flow Volume (m <sup>3</sup> /h) (H/ML)	1600		1600	
Dehumidifying Volume (l/h)	4		4	
EER / C.O.P (W/W)	2.64		2.51/2.68	
Energy Class	/		/	
Indoor unit	Model of Indoor Unit	GVCN36ABNK1A1A/I		GVHN36ABNK1A1A/I
	Fan Motor Speed (r/min) (H/ML)	500/450/400/360		500/450/400/360
	Output of Fan Motor (w)	120		120
	Input of Heater (w)	/		2100
	Fan Motor Capacitor (uF)	6		6
	Fan Motor RLA(A)	0.95		0.95
	Fan Type-Piece	Centrifugal fan – 1		Centrifugal fan – 1
	Diameter-Length (mm)	Ø379X180.5		Ø379X180.5
	Evaporator	Aluminum fin-copper tube		Aluminum fin-copper tube
	Pipe Diameter (mm)	Ø7		Ø7
	Row-Fin Gap(mm)	3-1.5		3-1.5
	Coil length (l) x height (H) x coil width (L)	839.5X430X38.1		839.5X430X38.1
	Swing Motor Model	SM016		SM016
	Output of Swing Motor (W)	4		4
	Fuse (A)	PCB 5A Transformer 0.2A		PCB 5A Transformer 0.2A
	Sound Pressure Level dB (A) (H/ML)	52/49/46/43		52/49/46/43
	Sound Power Level dB (A) (H/ML)	62/59/56/53		62/59/56/53
	Dimension (W/H/D) ( mm)	540 X1825X380		540 X1825X380
Dimension of Package (L/W/H) ( mm)	670X2010X495		670X2010X495	
Net Weight /Gross Weight (kg)	53/67		53/67	

Outdoor unit	Model of Outdoor Unit		GVCN36ABNK1A1A/O	GVHN36ABNK1A1A/O
	Compressor Manufacturer/trademark		SANYO	SANYO
	Compressor Model		C-SB301H5A	C-SB301H5A
	Compressor Type		SCROLL	SCROLL
	L.R.A. (A)		122	122
	Compressor RLA(A)		18.5~19.6	18.5~19.6
	Compressor Power Input(W)		3800~4000	3800~4000
	Overload Protector		/	/
	Throttling Method		Capillary	Capillary
	Starting Method		/	/
	Working Temp Range (°C)		21-43	-7-43
	Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube
	Pipe Diameter (mm)		Ø7	Ø7
	Rows-Fin Gap(mm)		2-1.5	2-1.5
	Coil length (l) x height (H) x coil width (L)		730X1218X44	730X1218X44
	Fan Motor Speed (rpm)		830	830
	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		4000	4000
	Fan Type-Piece		Axial fan -2	Axial fan -2
	Fan Diameter (mm)		Ø472	Ø472
	Defrosting Method		Auto defrost	Auto defrost
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)		2.5	2.5
	Permissible Excessive Operating Pressure for the Suction Side(MPa)		0.6	0.6
	Sound Pressure Level dB (A) (H/ML)		59	59
	Sound Power Level dB (A) (H/ML)		67	67
Dimension (W/H/D) (mm)		1032x1250x412	1032x1250x412	
Dimension of Package (L/W/H)(mm)		1110/1280/450	1110/1280/450	
Net Weight /Gross Weight (kg)		112/123	112/123	
Refrigerant Charge (kg)		R22/3.5kg	R22/3.5kg	
Connecti on Pipe	Length (m)		4	5
	Gas additional charge(g/m)		0	0
	Outer Diameter	Liquid Pipe (mm)	Ø12	Ø12
		Gas Pipe (mm)	Ø19	Ø19
	Max Distance	Height (m)	5	5
Length (m)		10	10	
The above data are subject to change without notice. Please refer to the nameplate on the unit.				

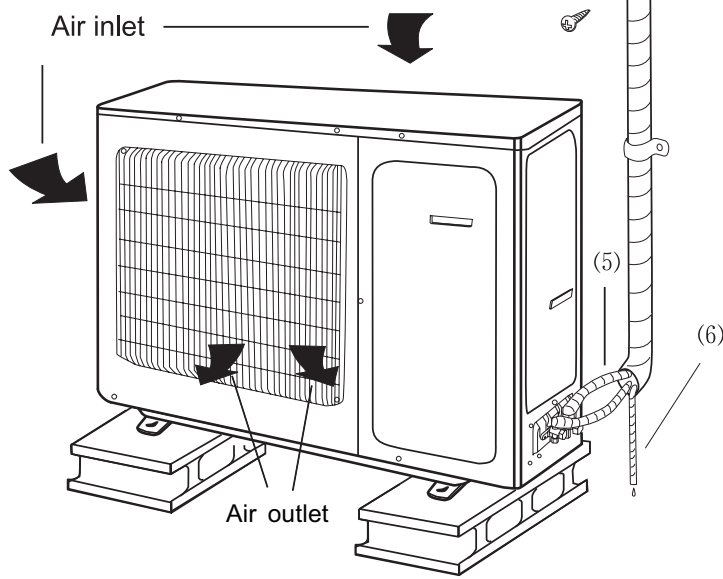
**3 Component Name**

**Indoor unit**



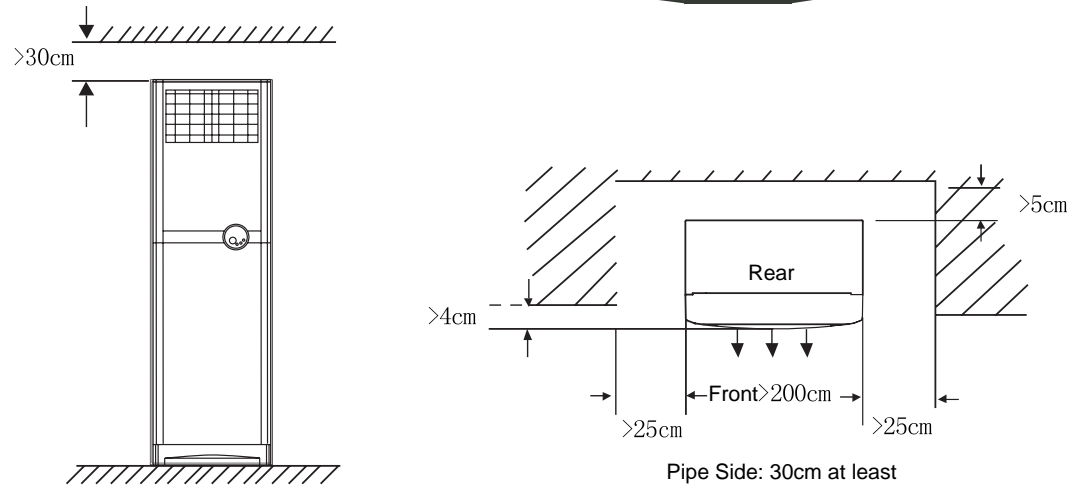
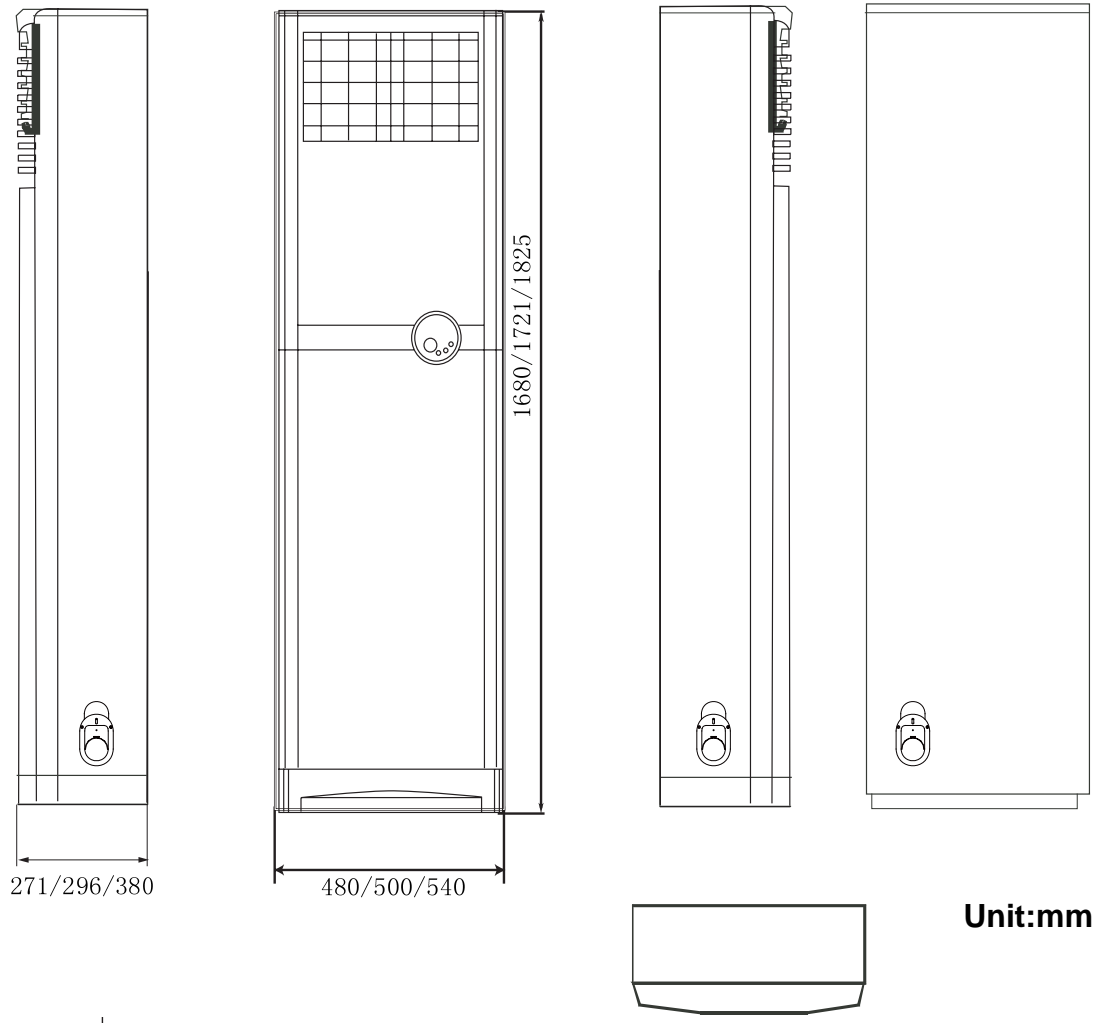
- (1) Air outlet vent
- (2) Front panel
- (3) Displayer
- (4) Air inlet panel
- (5) Connection pipe
- (6) Drainage pipe
- (7) Sealing tape

**Outdoor unit**



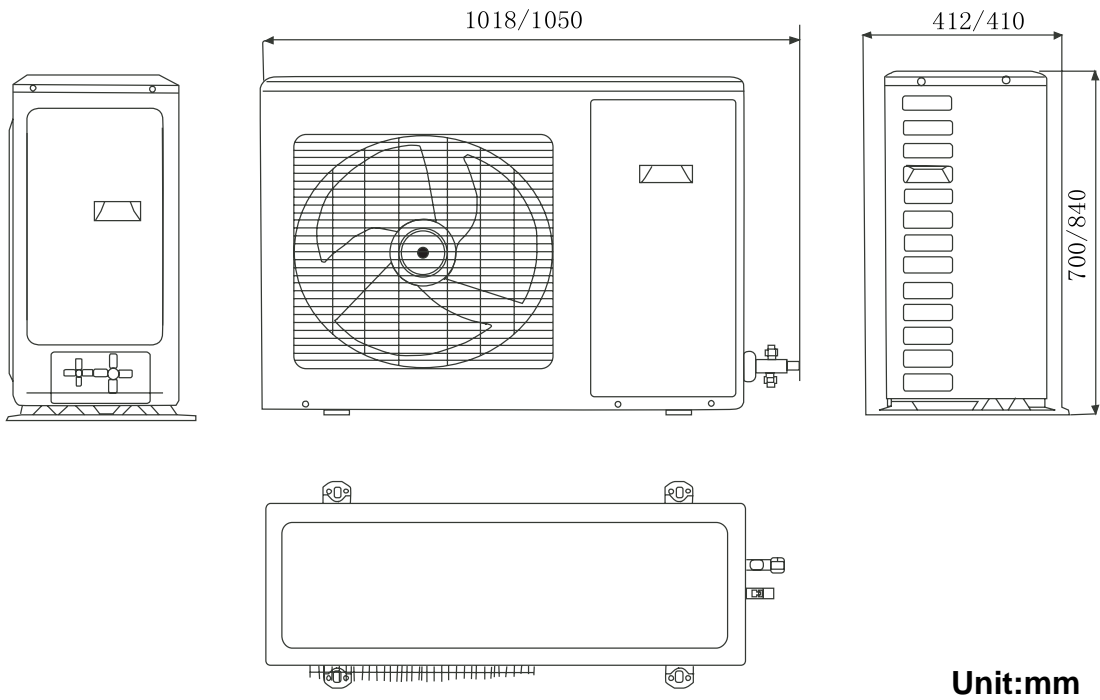
## 4 Overall and Installing Dimension

### 4.1 Overall and Installing Dimension of Indoor Unit

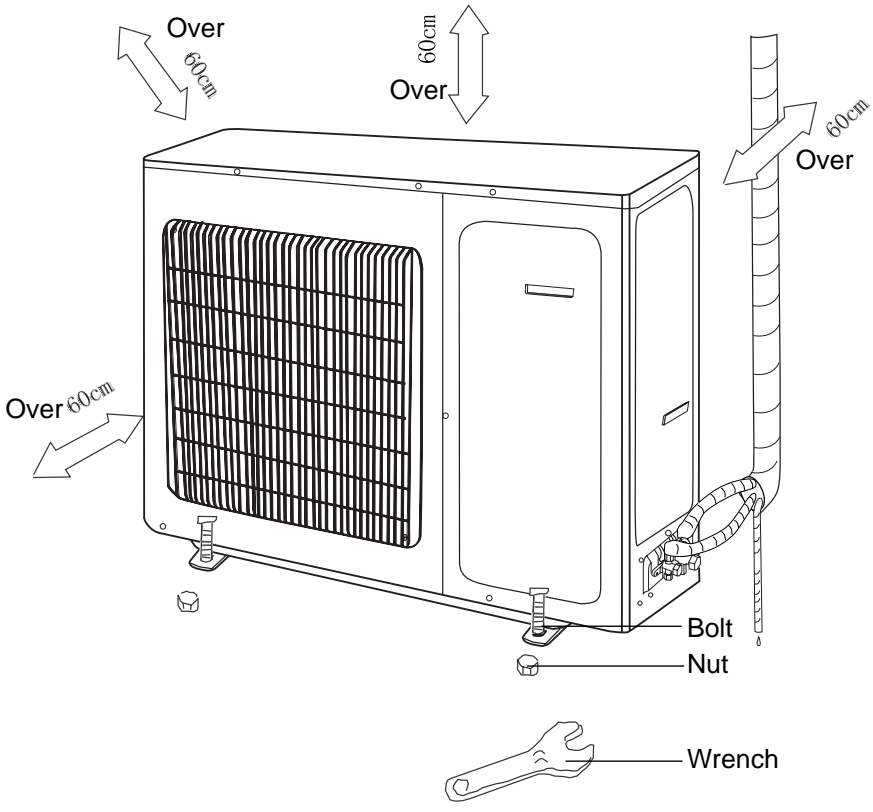




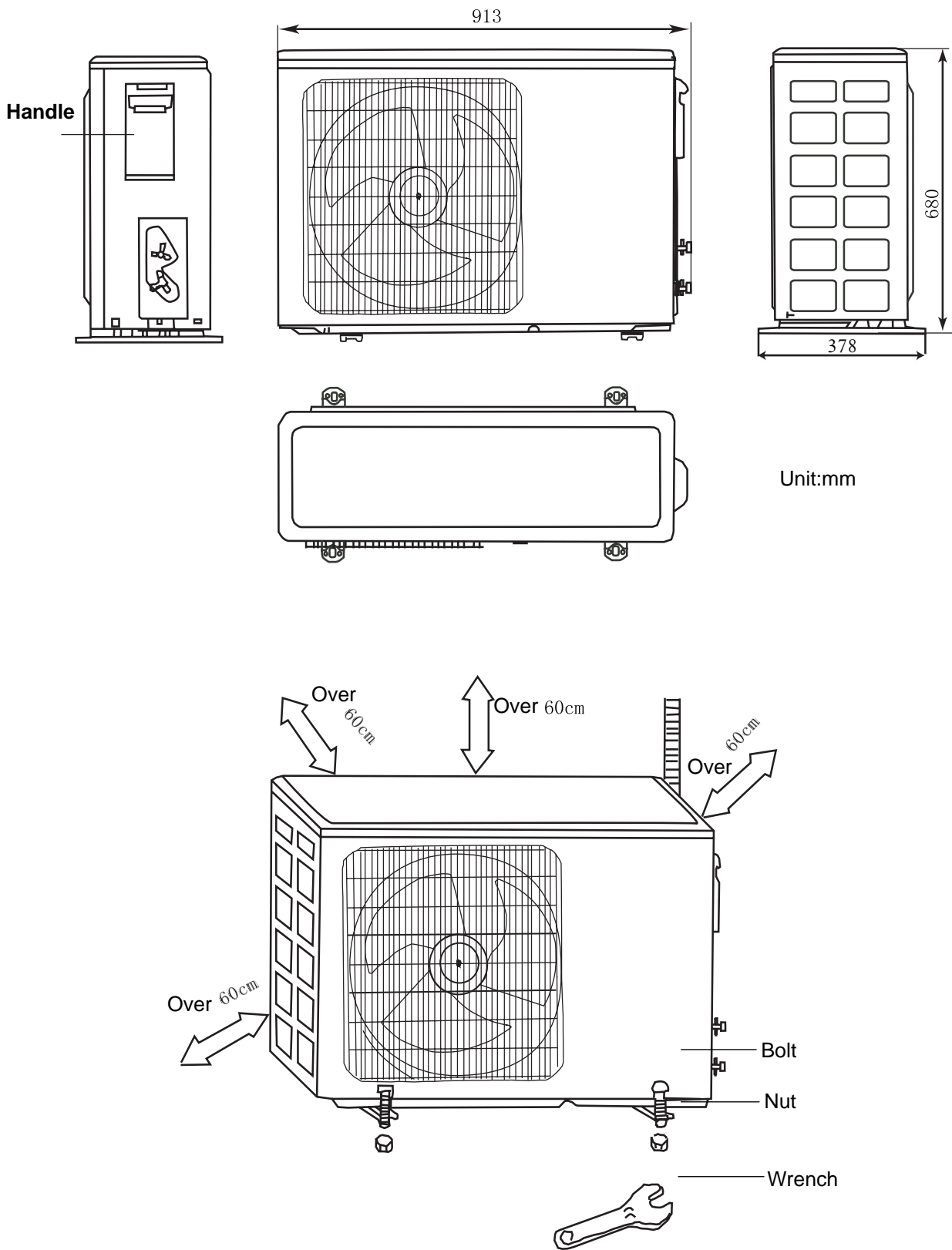
**4.2 Overall and Installing Dimension of Outdoor Unit**



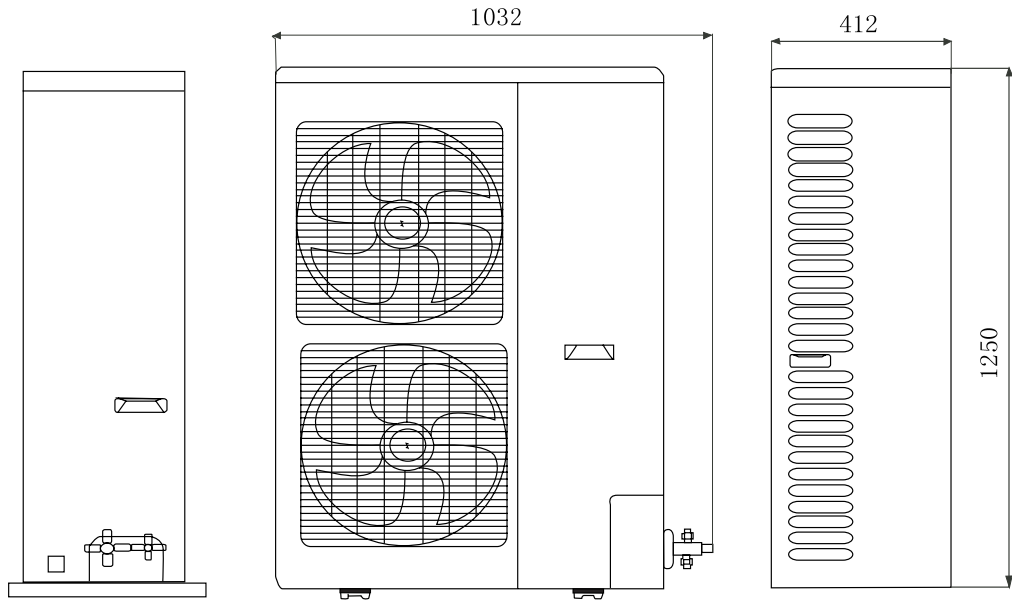
**Unit:mm**



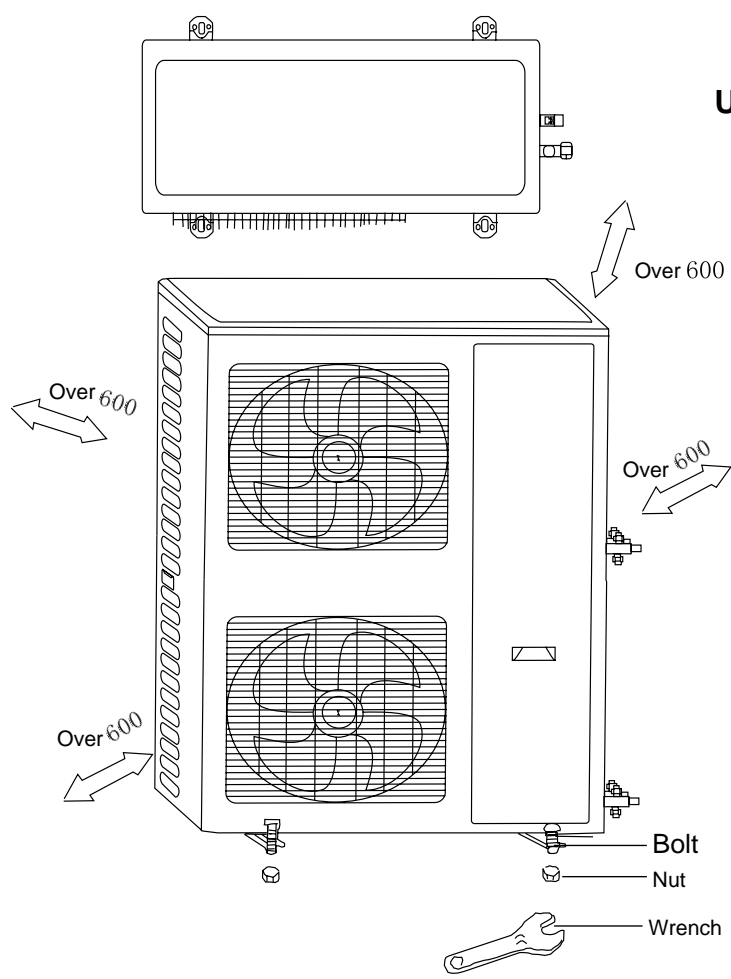
### 4.3 Overall and Installing Dimension of Outdoor Unit



**4.4 Overall and Installing Dimension of Outdoor Unit**

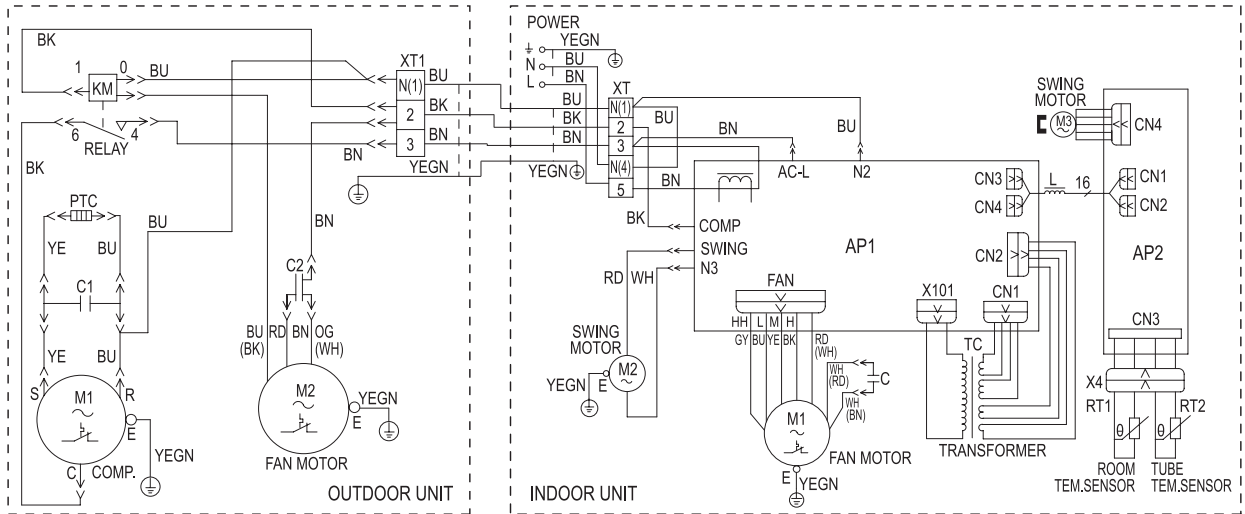


**Unit:mm**

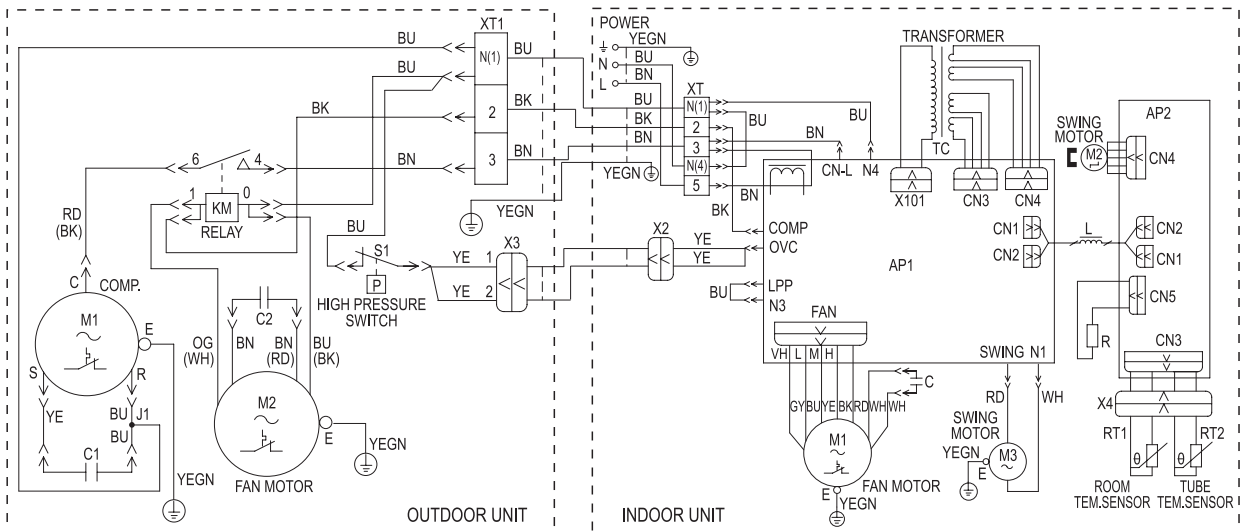


# 5 Electrical Diagram

GVCN18AANK1A1A

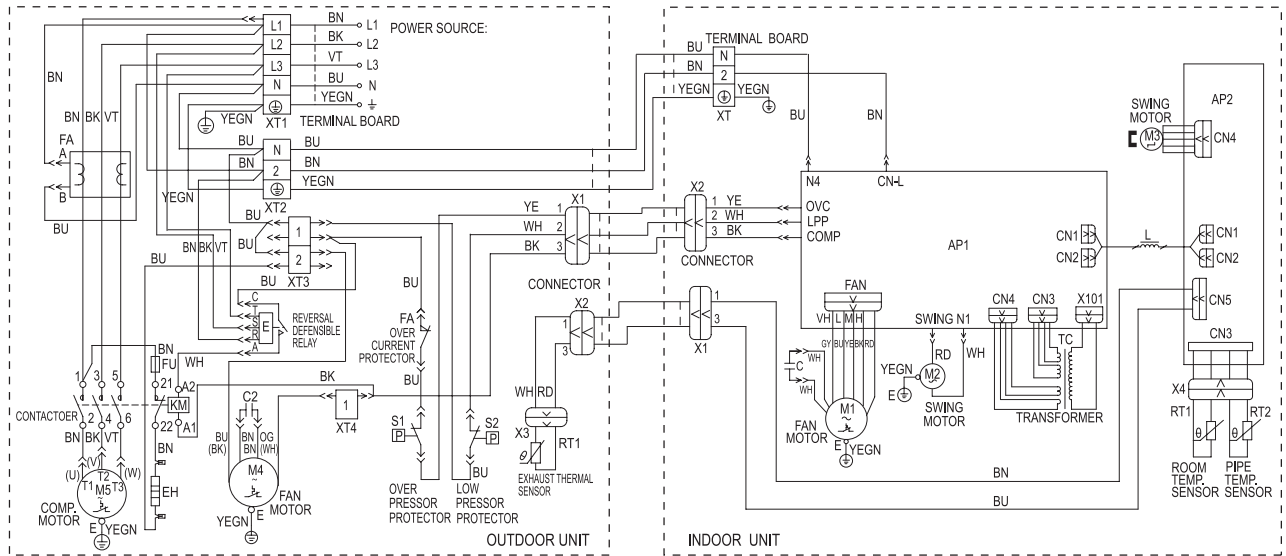


GVCN24AANK1A1A

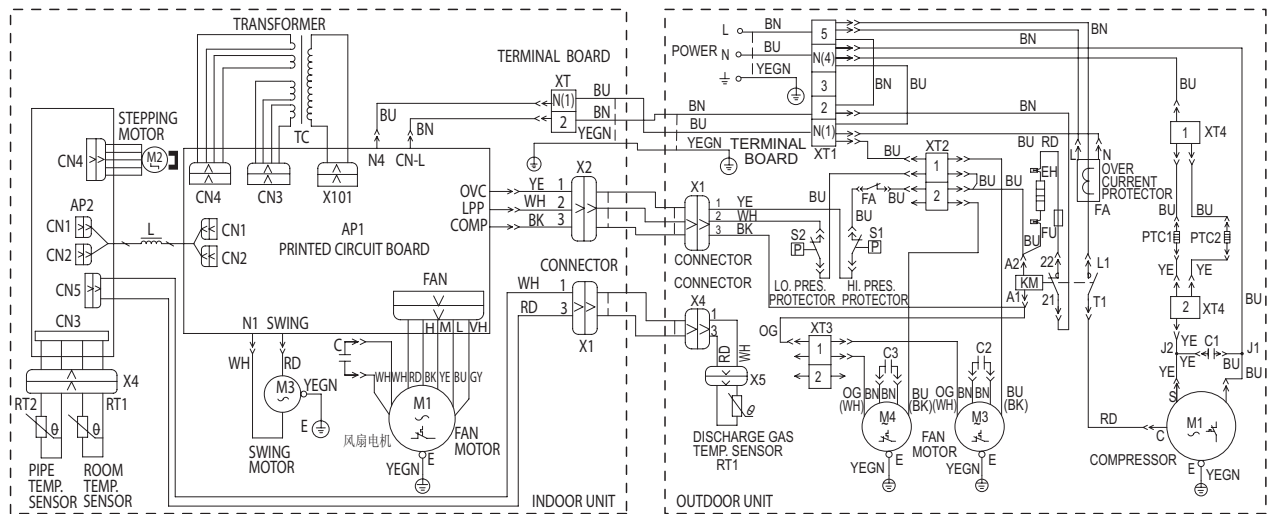




GVCN36ABNM1A1A

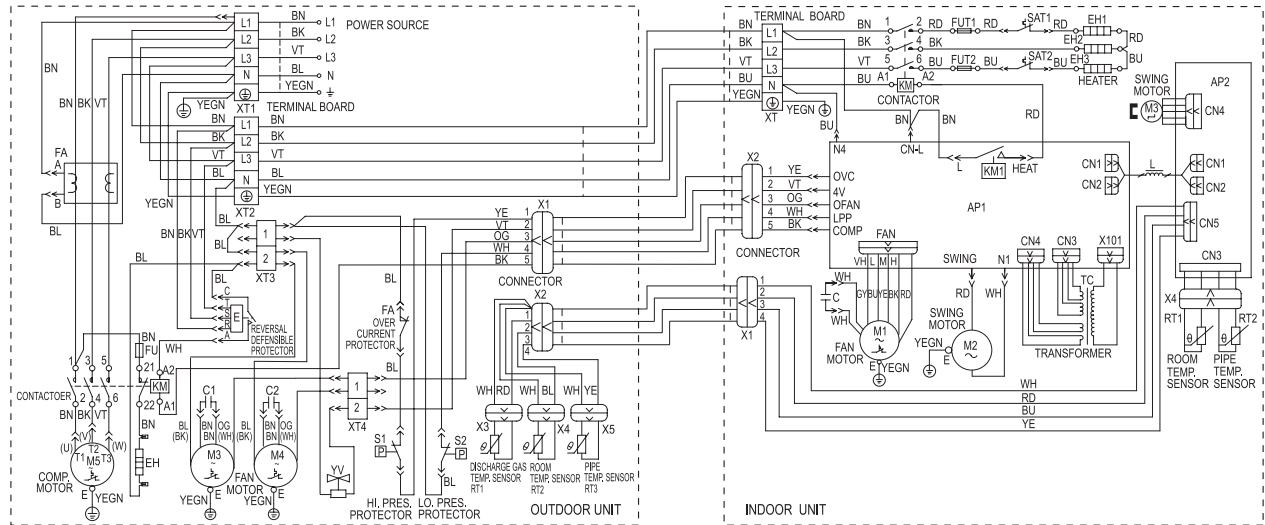


GVCN36ABND1A1A GVCN36ABNK1A1A





GVHN48ABNM1A1A



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



## 6 Remote Controller Function Manual and Operating Instruction

### 6.1 Remote Controller Function Manual

#### 6.1.1 Temperature Parameters

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

#### 6.1.2 Basic Functions

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

##### 6.1.2.1 Cooling Mode

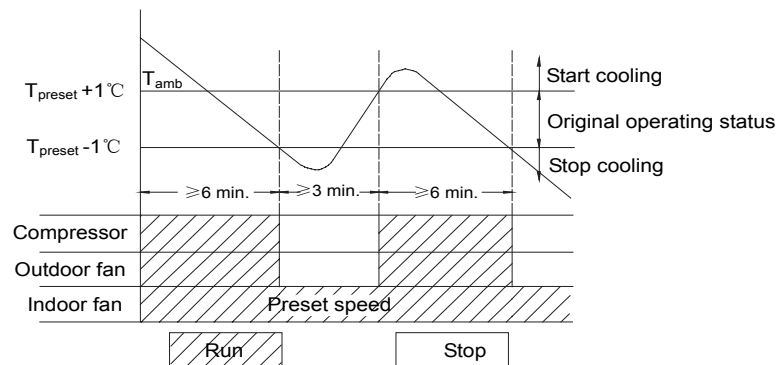
##### 6.1.2.1.1 Working Conditions and Process of Cooling

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

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

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

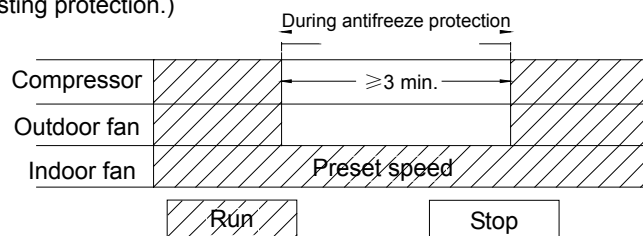
- After startup of unit under or to cooling mode from other mode when ambient temp  $\geq 30^\circ\text{C}$ , or ambient temp is  $3^\circ\text{C}$  higher or much higher than setting temp, indoor fan after startup of compressor will be forced to run at super high speed and then switch into setting speed after 10 min or after temp reaches so that the unit stops. Once indoor fan runs at setting speed after startup of compressor, it won't be forced to run at super high speed. Under this mode, switchover valve is de-energized and temp range is  $16\text{--}30^\circ\text{C}$ .



##### 6.1.2.1.2 Protection

##### ◆ Antifreezing Protection

If it is detected that the system is under antifreeze protection, E2 will be displayed, the compressor and outdoor fan will be stopped, and the indoor fan will run at preset speed. When antifreeze protection is released and the compressor has been stopped for 3 minutes, LCD display will resume, and the unit will resume its original operating status. (Buttons are not shielded during defrosting protection.)



##### ◆ Overcurrent Protection

If it is detected that the system amperage exceeds the specified value (about 22 A), the unit will stop when indoor ambient temp reaches setting temp. If the compressor has been stopped for 3 minutes and it is detected that the system's current resumes normal, the unit will resume original running state. If protection time is over 6, LED will blink and display E5, in which case, original running state can't resume, so it is needed to press ON/OFF button to stop and then repress this button to restart the unit.

**6.2.2.2 Dehumidifying Mode**

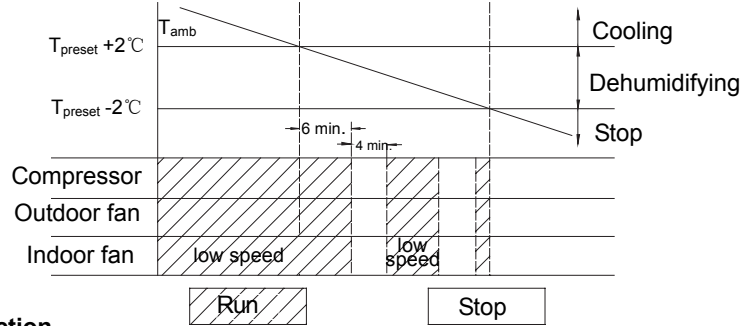
**6.2.2.2.1 Dehumidifying Conditions and Process**

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

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

When  $T_{amb} < T_{preset} - 2^{\circ}C$ , the compressor, outdoor fan and the indoor fan will stop running.

➤ Under this mode, the switchover valve does not work and the temperature can be set within a range from 16 to 30 °C .



**6.1.2.2.2 Protection Function**

◆ **Anti-freezing Protection**

This protection is the same as that under cooling mode.

◆ **Overcurrent Protection**

This protection is the same as that under cooling mode.

**6.1.2.3 Heating Mode**

**6.1.2.3.1 Working Conditions and Process of Heating**

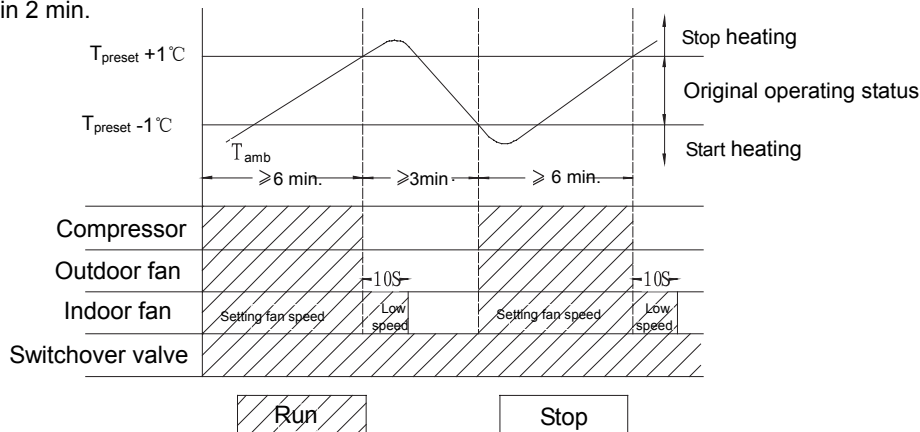
When  $T_{amb} \leq T_{preset} - 1^{\circ}C$ , the unit will run under heating mode, in which case the switchover valve, compressor and outdoor fan will be started, while the indoor fan will run at preset speed.

If  $T_{amb} \geq T_{preset} + 1^{\circ}C$ , the compressor and outdoor fan will be stopped, the switchover valve is still energized and the indoor fan will run at low speed for 10 seconds before it is stopped.

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

➤ Under heating mode, the switchover valve is energized and temperature can be set within a range from 16 to 30°C .

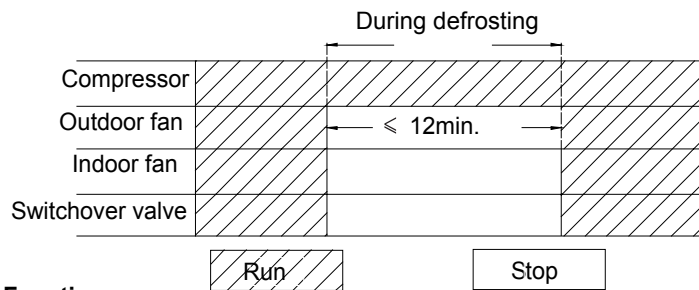
When the unit is stopped under heating mode and switches to other modes from heating mode, 4-way valve will be de-energized in 2 min.



**6.1.2.3.2 Conditions and Process of Defrosting**

Upon frost in condenser is detected, the system will enter into defrosting status, in which case the compressor will continue to run, the outdoor fan, 4-way valve and indoor fan will be stopped and the running indicator will blink. Display screen displays H1. When it is detected that the frost in condenser is completely eliminated, the outdoor fan, 4-way valve will be started, indoor fan will run at preset speed, the compressor will keep running, and the running indicator will stop blinking.

➤ The first defrosting after energization will last 9 minutes. Later, the defrost time can be adjusted according to quantity of frost. Defrosting takes longer if more frost (Max. 12 minutes). The system will exit defrost mode upon completion of defrosting.



### 6.1.2.3.3 Protection Function

#### ◆ High Temp Protection in Room

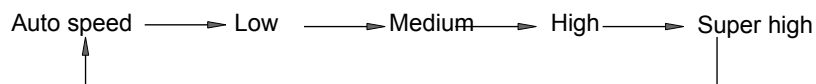
If indoor temp is detected to be too high, outdoor fan stops running. When the temp resumes normal, outdoor fan starts.

#### ◆ Overcurrent Protection

This protection is the same as that under cooling mode.

### 6.1.2.4 Fan mode

Indoor fan runs at preset speed:



➤ Under this mode, temp setting range is 16-30 °C .

### 6.1.2.5 Auto Mode

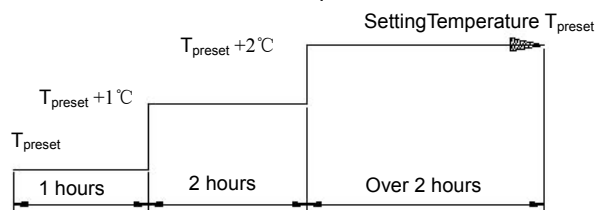
Under this mode, the system will automatically select its run mode (cool, dehumidify, heat or fan) with the change of ambient temp.

➤ Once each mode is started, it must run for 30s at least and then the unit switches to the running state under auto mode according to ambient temp.

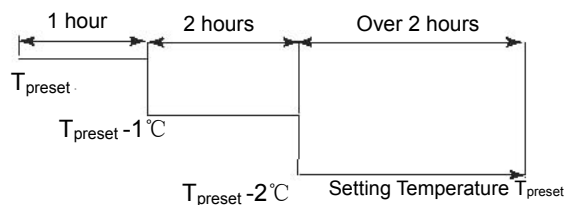
### 6.1.3. Other Control

#### 6.1.3.1 Sleep Function

◆ If the controller is under cooling or dehumidifying mode, the preset temperature will be increased by 1°C one hour after running under sleep mode and will be increased by another 1°C after two hours. The temperature will increased by 2°C within two hours. After that, the unit will run at this temperature.



◆ If the controller is under heating mode, the preset temperature will be decreased by 1°C one hour after running under sleep mode and will be decreased by another 1°C after two hours. The temperature will decreased by 2°C within two hours. After that, the unit will run at this temperature.



### 6.1.3.2 Timer ON/OFF Function

#### 6.1.3.1 Timer ON

TIMER ON function can be set when the unit is at off mode. At the time for Timer ON, the controller will run under preset mode. The interval of time setting is 0.5h if timer setting is below 10hr and 1hr if timer setting is above 10hr. The setting range is 0.5-24h.

#### 6.1.3.2 Timer OFF

TIMER OFF function can be set when the unit is at on mode. At the time for Timer OFF, the system will be stopped. The interval of time setting is 0.5h if timer setting is below 10hr and 1hr if timer setting is above 10hr. The setting range is 0.5-24h.

**6.1.3.3 Door Open/ Closed**

Static duster can normally work after the door switch is open;in the contrary, the static duster is off.

**6.1.3.4 Swing Control**

Control swing motor on/off by pressing swing button or remotr controller and swing function is valid only when indoor fan is running.

**6.1.3.4.1 Left &Right Swing**

Control swing motor on/off by pressing swing button or remotr controller.Every press of this button, swing left&right switches between on and off.

**6.1.3.4.2 Upper & Lower Swing**

Upper&lower swing can be controlled by pressing swing button on front panel or remote controller.Upon startup of unit, there are 7 states: angle 1, angle 2, angle 3, angle 4, angle 5, swing , stop.Every time after energization and startup of the unit by pressing ON/OFF button on front panel,the defaulted state under cooling state is angle 2 ,angle 4 under heating state and angle 3 under fan mode. Swithover among modes is also according to these angles.Swing motor's state is according to the state displayed on remote controller if the unit is started by remote controller.Every time after startup of unit, swing louver must be ensured to be at angle 1(min. position) so that compressor , fan and other loads can run.Every time when controller is energized or off,it gives a signal to swing motor to ensure proper position of louver (off state).

**6.1.3.5 Stactic Deduster and Photocatalysic LED Control (Valid after startup of unit)**

When "Air Purify" is started by button or remote controller and upon stop of static deduster for 1min and indoor fan is running,static dedusting will be immediately started.If "Air Purify" is stopped by pressing button or remote controller, this function will stop immediately. Control of photocatalyst and static deduster is synchro.

**6.1.3.6 Buzzer**

When the controller is energized or receives signal from valid buttons, the buzzer will give out music beep (digital chord).

**6.1.3.7 Auto Fan Speed Control of Indoor Fan**

Under Cooling,Heating and Fan mode, according to ambient temperature, indoor fan will select High,Middle and Low fan speed automatically.Once this speed is started,it can switch only after 30s at least.

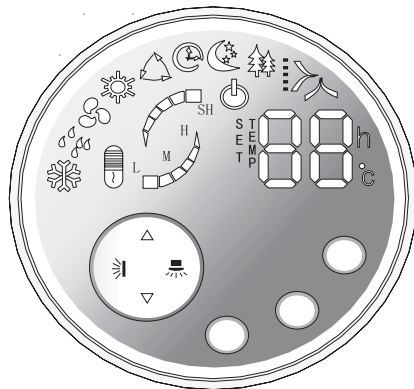
**6.1.3.8 Control of LED Display Module**

Under standby state of unit, LED is red. Upon startup of unit, it is light.Onceany one of these cases like forced heating, forced cooling, defrosting, antifreezing protection and overcurrent of protection occurs,LED will blink.

**6.1.3.9 Power-off Memory**

Controller after re-energization will memorize the states before power failure.If memory is running state, compressor will delay 3min to stop.If power is failed after timer has been set and then it resumes after setting time has reached,the unit will run under the state before power failure,but if it resumes when setting time hasn't reached,the unit will re-count the time after re-energization.Memorizing contents:mode, swing,setting temp, setting fan speed, light and timer.

**6.1.3.10 Buttons Function**



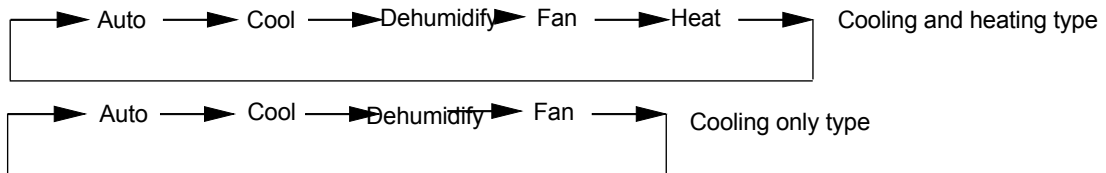
Sketch for Buttons on Front Panel and LED Displayer

◆ **ON/OFF Button**

This button is used to control left&right swing motor on/off, and every press of it, the swing motor starts or stops.

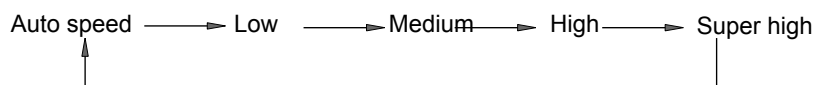
◆ **Mode Button**

Press mode button to select among the following states which will be displayed like the following:



◆ **Fan Button**

Press fan button to select among the following states which will be displayed like the following:

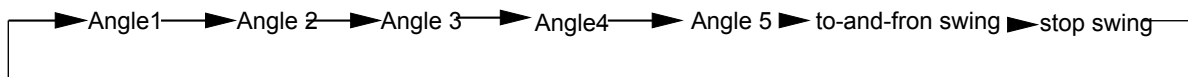


◆ **Left & Right Swing Button**

This button is used to control left &right swing motor on/off,and every press of it, the swing motor starts or stops.

◆ **Upper & Lower Swing Button**

This button is used to control upper & lower swing motor and the display is like the following:



◆ **▲ and ▼ Button**

Without timer setting, every press of ▲ or ▼ button, setting temperature will increase or decrease by 1 °C ,and the setting range is 16-30 °C.Under auto mode, temp setting is invalid.

With timer setting, timing can be adjusted within the range of 0-24hr.If time setting is below 10hr, the interval is 0.5hr and if above 10hr,interval is 1hr.

For the first energization, if there is not input of any button:

- 1)If press ▲ button, the unit immediately enters into forced heating state and upper & lower swing louver opens at angle 5 (min.position), and then all loads start.Indoor fan and outdoor fan runs at high speed and all characters are displayed. If it is detected that ambient temp or evaporator temp is over high, the buzzer beeps.The unit stops after 5 min and then enters into standby state.
  - 2) If press ▼button, the unit immediately enters into forced heating state and upper & lower swing louver opens at angle 5 (min.position), and then all loads except 4-way valve start.Indoor fan and outdoor fan runs at high speed and all characters are displayed.If it is detected that ambient temp or evaporator temp is over high, the buzzer beeps.The unit stops after 5 min and then enters into standby state.
- The above item 1) and 2) are only for testing.

◆ **Combined Buttons**

- 1) If press mode button and fan button at the same time, all functions on display panel are shielded . And then repress those two buttons at the same time to release shielding.
- 2) Press mode button and upper & lower swing button at the same time to set static dedusting on/off.Press those two buttons again to switch between on and off.
- 3) Press fan button and left&right swing button at the same time to set sleeping function on/off. Press those two buttons again to switch between on and off.
- 4) Press fan button and▲ button at the same time to set timer.If timer has not been set, press these two buttons into timer setting .In this case,timer icon blinks and then press ▲ or ▼ button to select setting time.After setting time, repress these buttons at the same time to conform time setting and quit.If you don't press▲ or▼ button to conform in timer setting state for a long time, the timer icon blinks for 10s and then the unit returns to original state.

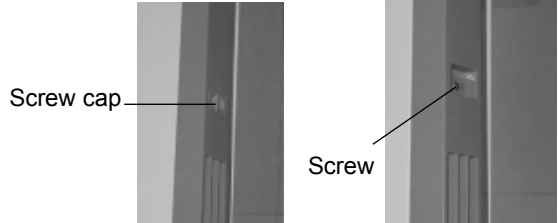
# 7 Disassembly and Assembly Procedures

## 7.1 Disassembly Process of Indoor Unit

### Operating Procedures / Photos

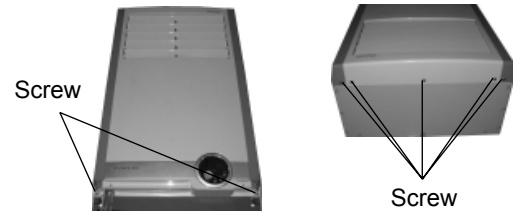
#### 1. Disassemble Air Inlet Panel

Take out the screw caps and unscrew the screw both at left and right side. Remove the outside plate downwards slightly to take out air inlet panel.

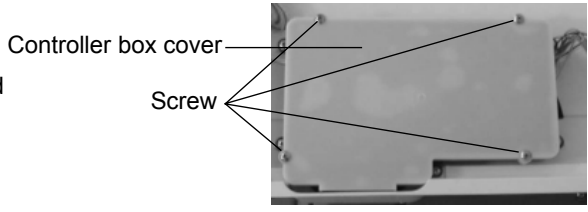


#### 2. Disassemble Air Outlet Panel

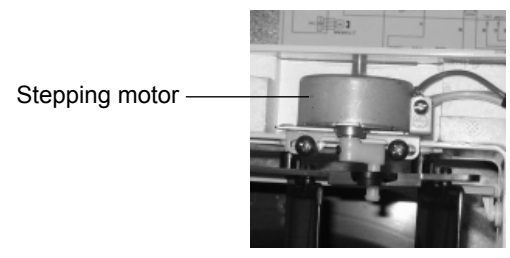
Unscrew the 2 screws under air outlet panel and 5 screws on the plate and then lift the panel upwards to make it off the left and right side plate.



Unscrew the 4 screws at the back of air outlet plate and fixing controller box cover to pull out wiring terminal.



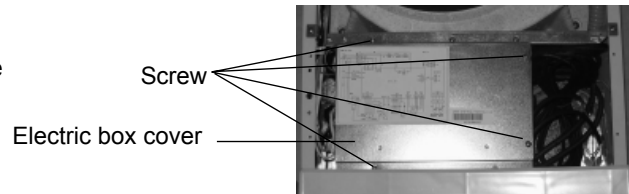
Unscrew the screws fixing stepping motor to take the stepping motor and the air inlet panel out.



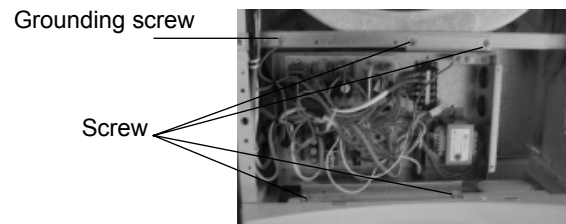
## Operating Procedures / Photos

### 3. Disassemble Electric Box

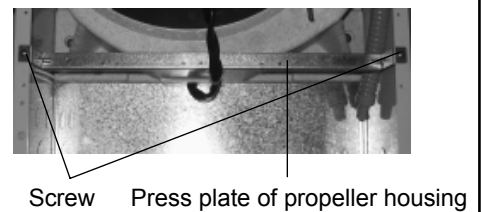
Unscrew the screws fixing electric box cover to take the cover out.



Unscrew the 4 screws fixing electric box to take it out.

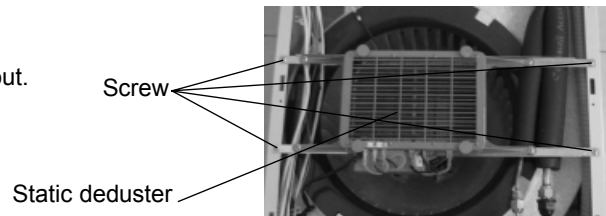


Unscrew the 2 screws fixing press plate of propeller housing to remove it.



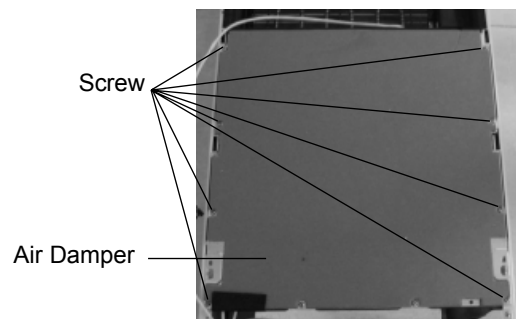
### 4. Disassemble Static Deduster

Unscrew the 4 screws fixing static deduster to take it out.



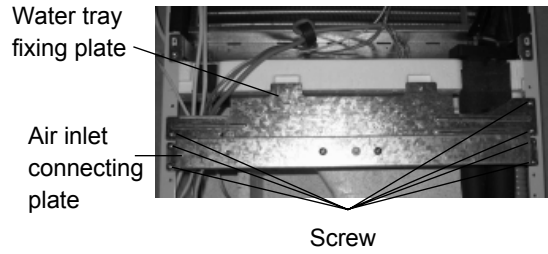
### 5. Disassemble Air Damper and Air Inlet Connecting Plate

Unscrew the 4 screws fixing static deduster to take it out.



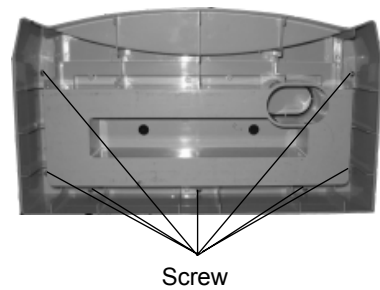
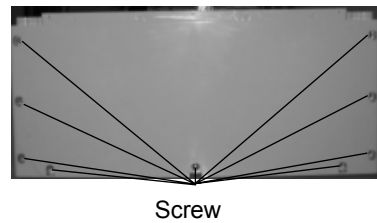
**Operating Procedures / Photos**

Unscrew the 4 screws fixing air inlet connecting plate to take it out.  
Unscrew the 3 screws fixing water tray fixing plate to take it out.



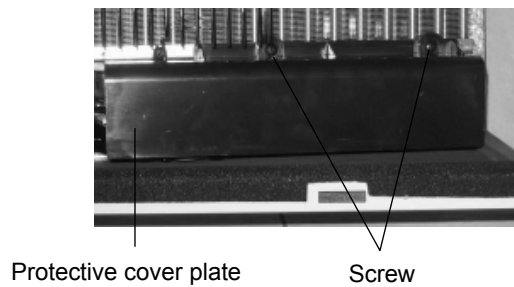
**6. Disassemble Chassis and Top Cover**

Unscrew the 7 screws fixing top cover to take it out.  
Unscrew the 5 screws fixing chassis to take it out.



**7. Disassemble Protective Cover Plate**

Unscrew the 2 screws fixing the protective cover plate to take it out. Pull out tube temp sensor.





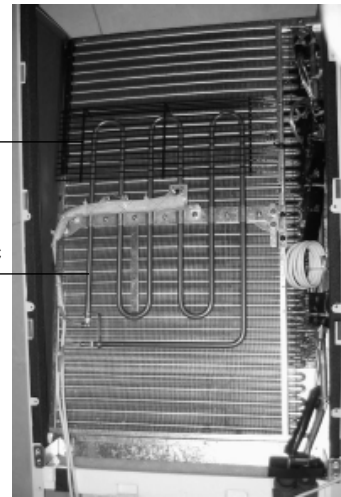
## Operating Procedures / Photos

### 8. Disassemble Auxiliary Electric Heater

Only for cooling and heating type unit  
Unscrew the 2 screws fixing guard grill to remove it.  
Unscrew the screws fixing auxiliary electric heater and loose the tieline to remove the electric heater.

Guard grill

Auxiliary electric heater

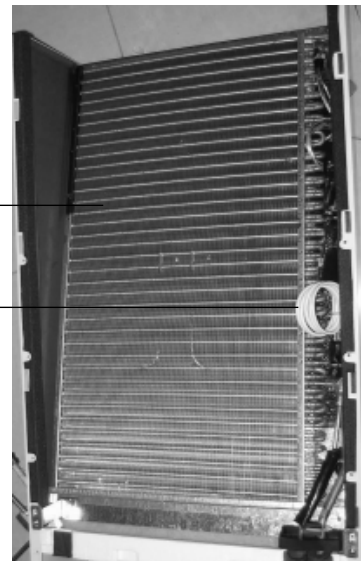


### 9. Disassemble Evaporator

Unscrew the two screws fixing the protective cover plate to remove it. Unscrew the screws fixing the evaporator. Slightly pull the right and left side plate and lift them to remove the evaporator.

Evaporator

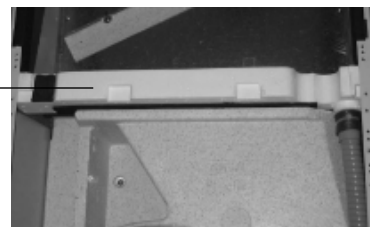
Capillary



### 10. Disassemble Water Tray

Remove the fixing plate of water tray as described in item 5. Slightly pull the right and left side plate and drag the water tray upwards.

Water tray

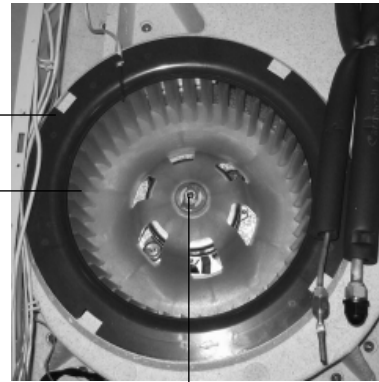


## Operating Procedures / Photos

### 11. Disassemble Flow-guide Loop and Centrifugal Housing

Turn the flow-guide loop clockwise to a certain position to remove the loop. Unscrew the nuts in the centrifugal fan to remove it.

Flow-guide loop  
Centrifugal fan



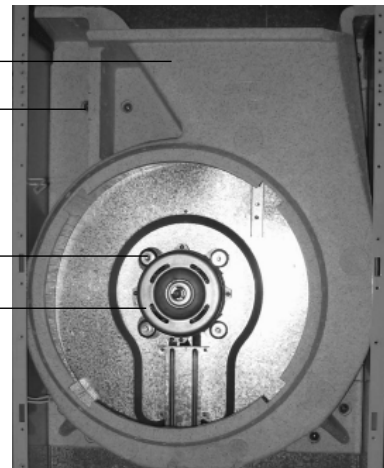
Nut

### 12. Disassemble Propeller Housing and Motor

Unscrew the screw fixing propeller housing to remove it. Unscrew the nut fixing motor to remove it.

Propeller housing  
Screw

Nut  
Motor

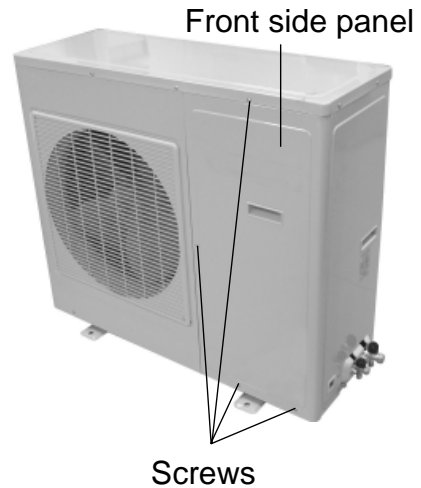


## 7.2 Disassembly Process

### Operating Procedures/Photos

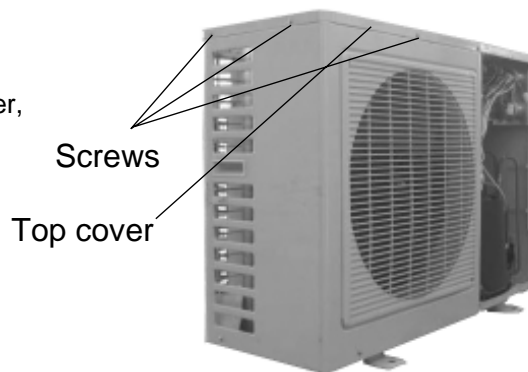
#### 1. Disassemble front side panel

Unscrew the 4 screws the front side panel, to remove it.



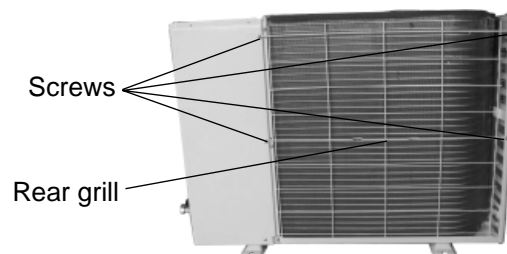
#### 2. Disassemble top cover

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



#### 3. Disassemble Rear Grill

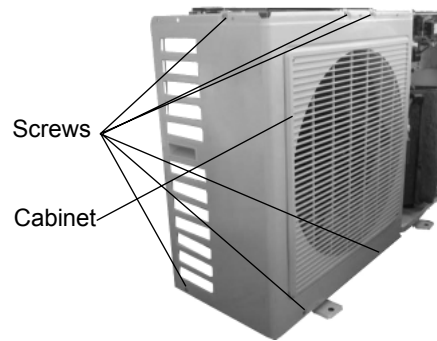
Unscrew the four screws around the rear grill, to remove it.



**Operating Procedures / Photos**

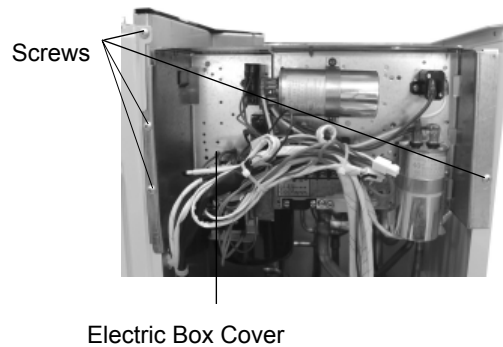
**4. Disassemble Cabinet**

Unscrew the screws at the front panel to remove the cabinet.



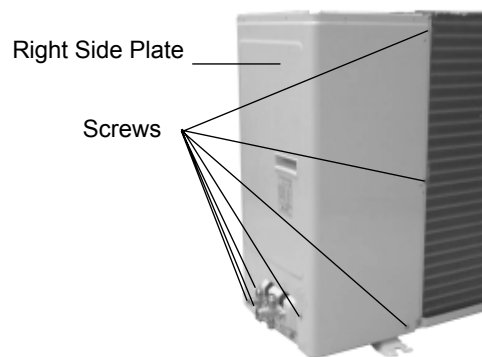
**5. Disassemble Electric Box**

Unscrew the 2 screws fixing the electric box cover, and lift the electric box cover to remove it.



**6. Disassemble Right Side Plate**

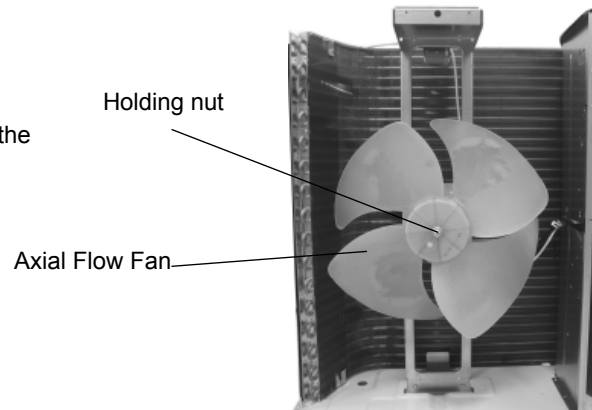
Unscrew the 7 screws at the right side plate, the valve support and the side plate of the condenser to remove



## Operating Procedures / Photos

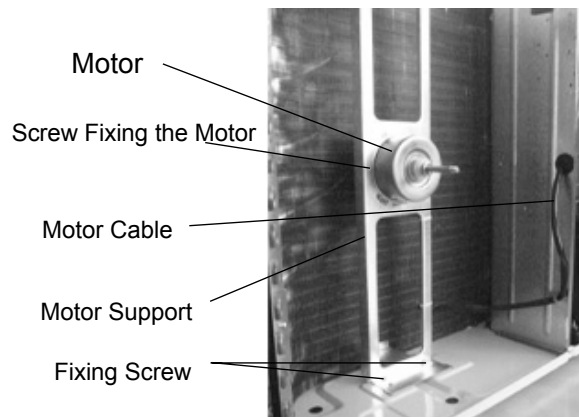
### 7. Disassemble Axial Flow Fan

Use a spanner to loosen the holding nut to remove the axial flow fan



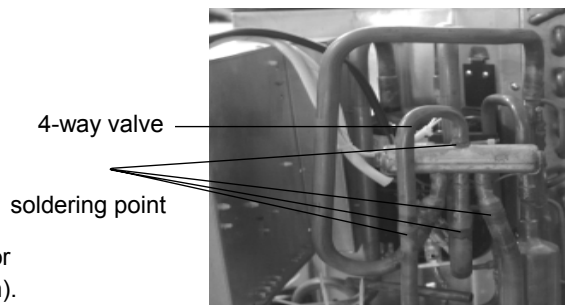
### 8. Disassemble Outdoor Motor

Screw off the four tapping screws fixing the motor, pull out the motor lead-out cable plug and remove the motor. Screw off the two tapping screws fixing the motor support, and pull the motor support upwards to remove it.



### 9. Disassemble 4-Way Valve

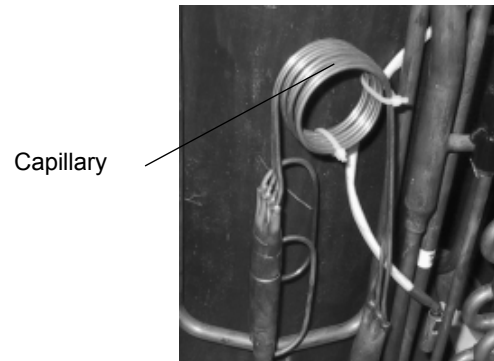
Screw off the holding nut of the 4-way valve coil and remove the coil. Use wet cotton cloth to wrap the 4-way valve, unsold the four soldering points connecting the 4-way valve, and remove the 4-way valve. Be quick during the unsoldering process, pay attention to keep the wrapping cloth wet and do not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



**Operating Procedures / Photos**

**10. Disassemble Capillary Sub-assembly**

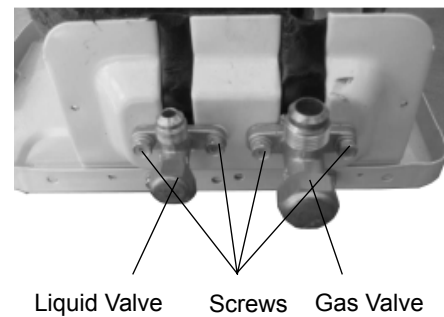
Unsolder the soldering points connecting the capillary sub-assy and the other pipelines, and remove the capillary sub-assy.



**11. Disassemble Valves**

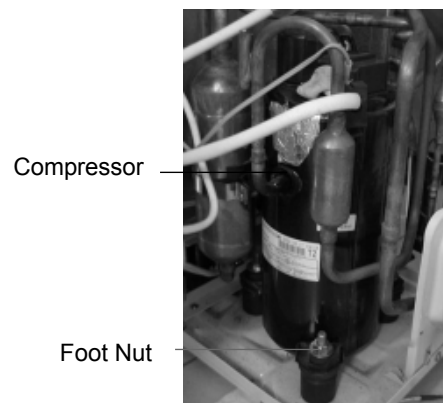
Unscrew the two screws fixing the gas valve, unsolder the soldering point between the gas valve and the return-air duct and remove the gas valve (note: when unsoldering the soldering point, use wet cloth to completely wrap the gas valve to prevent valve body from being harmed by high temperature).

Unscrew the two screws fixing the liquid valve, unsolder the soldering point connecting the liquid valve and the fork type pipe, and remove the liquid valve.



**12. Disassemble Compressor**

Firstly unsolder the pipes connecting the compressor, and then unscrew the three foot nuts at the compressor

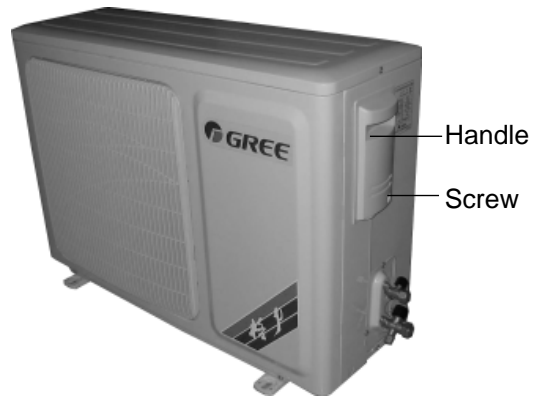


### 7.3 Disassembly process of outdoor unit

#### Operating procedures/photos

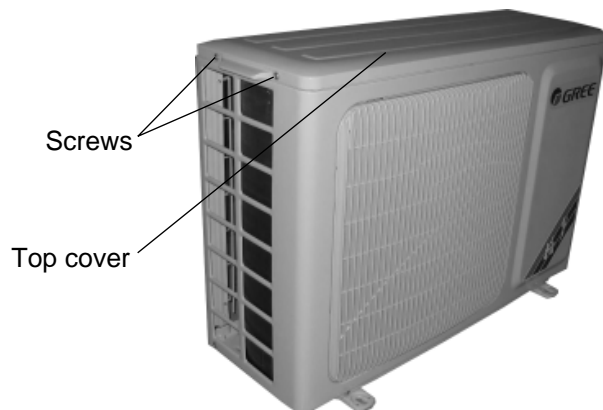
##### 1. Disassembling handle

Unscrew 1 screw in the handle, and remove it downward, can take down the handle.



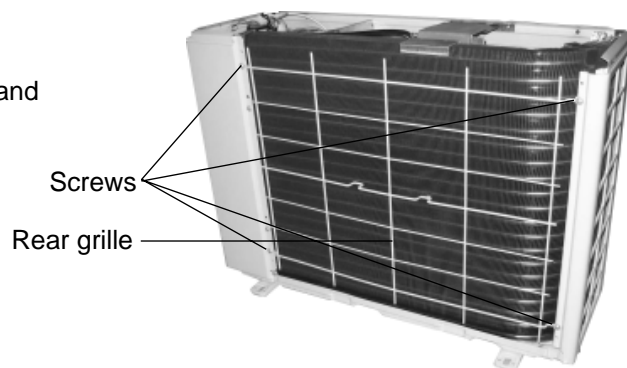
##### 2. Disassembling top cover

Unscrew the screws in the top cover, and two in left, one in right, and then lift it upwards to take it out.



##### 3. Disassembling rear guard

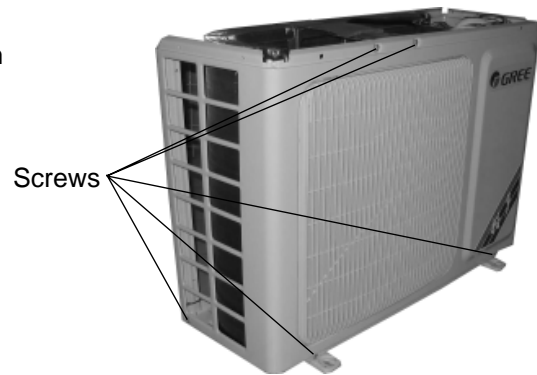
Unscrew the 4 screws fixing the rear guard, and then take it out.



## Operating Procedures / Photos

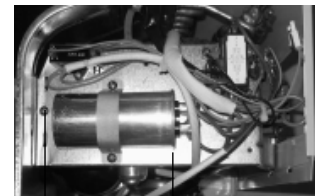
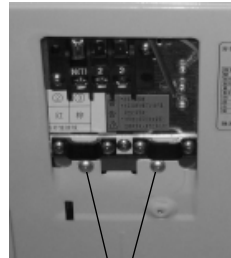
### 4. Disassembling the front panel

Unscrew the screws, there are five in all, rotate them rightwards, then take it out.



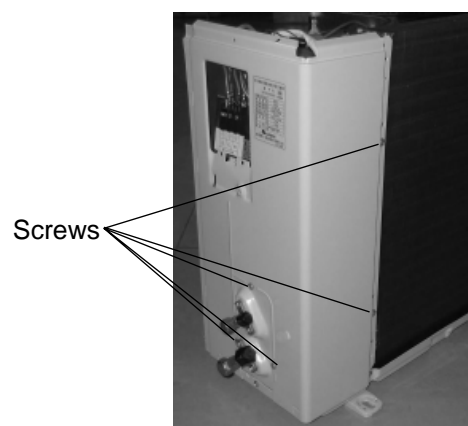
### 5. Disassembling electric box

Unscrew 3pcs of screw, loosen the wires can take out the electric box.



### 6. Disassembling right side plate

Loosen 5 screws in right side plate, lift it up, can take down the right side plate.

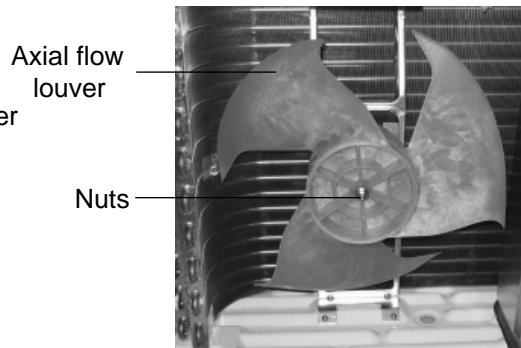




**Operating Procedures / Photos**

**7. Disassembling axial flow louver**

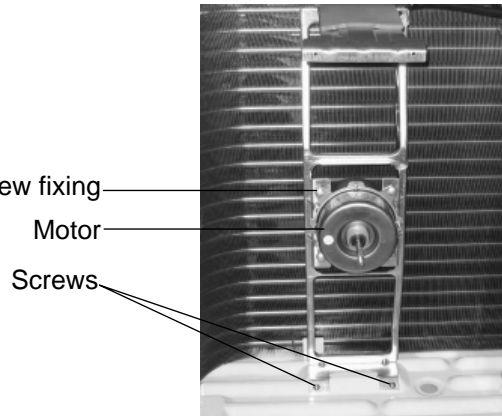
Unscrew the nuts fixing the axial flow louver with a spanner ,and take the plain washer and spring washer out ,then pull out the axial flow louver powerfully.



**8. Disassembling motor support**

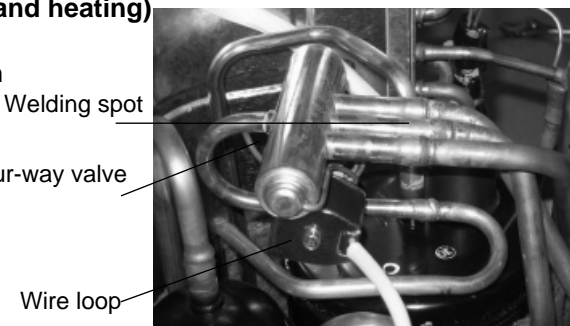
Unscrew the self-tapping screws fixing the motor and take it out.

Unscrew the 2 self-tapping screws fixing the motor support ,and then lift it upwards to take the motor support out.



**9 .Disassembling 4-way valve(Only for cooling and heating)**

Screw off the nuts fixing the 4-way valve coil and then take out the coil ,and wrap the 4-way valve with wet cotton gauze, then unsolder the four welding spots on the four-valve, and take 4-valve out  
The welding process should be as quickly as possible and the wetness of the wrapping gauze should be maintained all the time,be sure not to burn out the lead wire of the compressor.

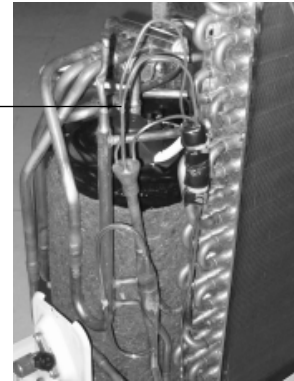


## Operating Procedures/Photos

### 10. Disassembling capillary tube

Unsolder the welding spots connecting the capillary tube, and then take the capillary tube out.

Capillary tube



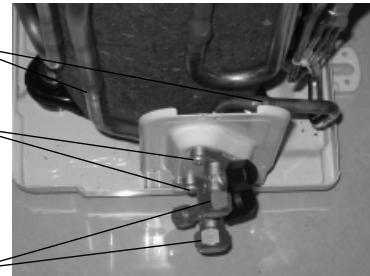
### 11. Disassembling the valve

Unscrew the 2 bolts fixing the valve, and unsolder its connection pipe, then disassemble the valve.

Solder pot

Bolt

Valve



### 12. Disassembling compressor

Unsolder the welding spots of the compressor, and unscrew the 3 foot nuts of the compressor, then take the compressor out.

Compressor

Foot nuts

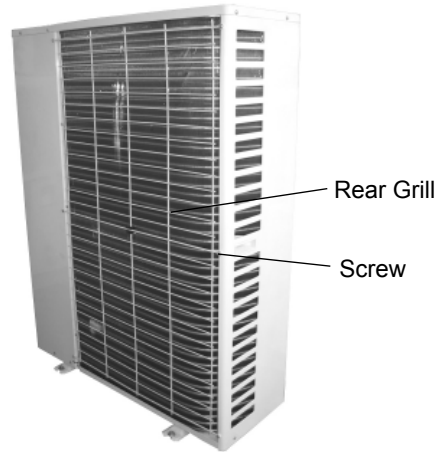


**7.4 Disassembly Process**

**Operating Procedures/Photos**

**1. Disassemble Rear Grill**

Screw off the six tapping screws at the rear side plate, valve support chassis and condenser side plate to remove the rear grill.



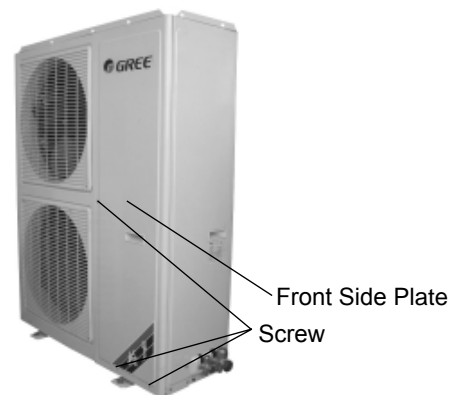
**2. Disassemble Top Cover Plate**

Screw off the tapping screws around the top cover, and then pull the top cover upward to remove it.



**3. Disassemble Front Side Plate**

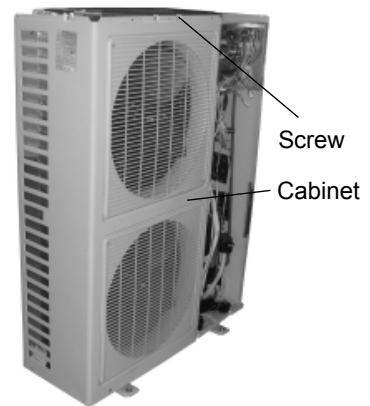
Screw off the three tapping screws at the front side plate, and then pull the front side plate upward to remove it.



## Operating Procedures/Photos

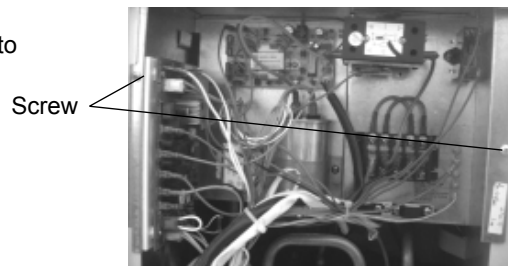
### 4. Disassemble Cabinet

Unscrew the screws around the cabinet to remove the cabinet.



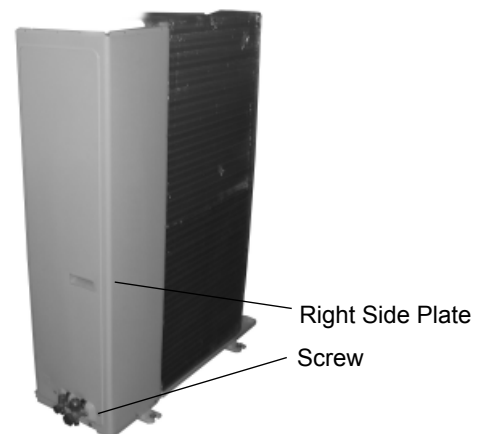
### 5. Disassemble Electric Box

Unscrew the screws around the electric box sub-assy to remove it.



### 6. Disassemble Right Side Plate

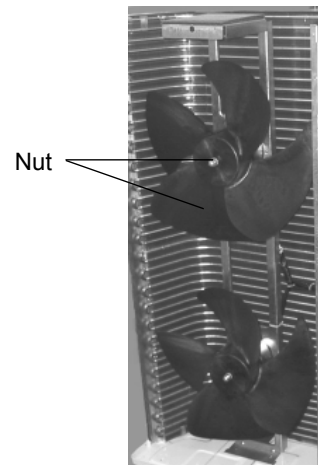
Unscrew the screws around the right side plate to remove the right side plate.



**Operating Procedures/Photos**

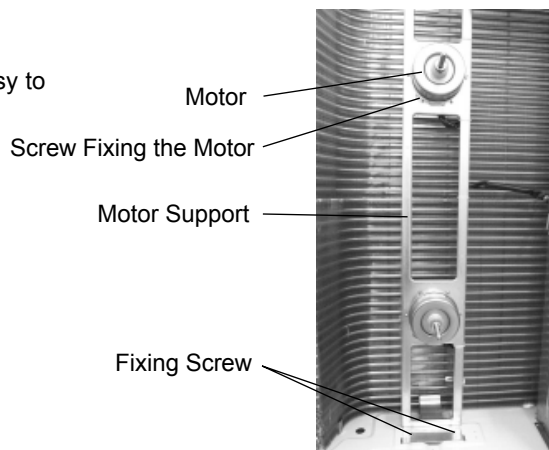
**7. Disassemble Axial Flow Fan**

Use spanner to twist off the nut of the fan and remove the fan.



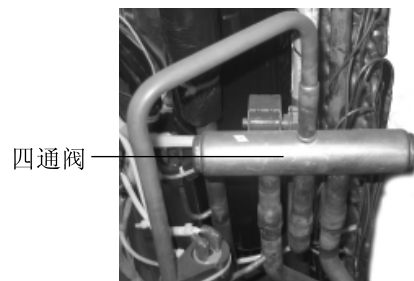
**8. Disassemble Outdoor Motor**

Unscrew the screws around the electric box sub-assy to remove it.



**9. Disassemble 4-Way Valve**

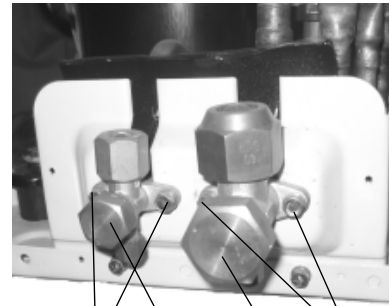
Screw off the holding nut of the 4-way valve coil and remove the coil. Use wet cotton cloth to wrap the 4-way valve, unsold the four soldering points connecting the 4-way valve, and remove the 4-way valve. Be quick during the unsoldering process, pay attention to keep the wrapping cloth wet and do not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



## Operating Procedures/Photos

### 10. Disassemble Valve

Unscrew the two screws fixing the valve, unsolder the connecting pipe of the valve, and remove the valve.



Screw Liquid Valve Gas Valve Screw

### 11. Disassemble Capillary

Unsolder the soldering points between the capillary and other pipes to remove the capillary.



Capillary

### 12. Disassemble Compressor

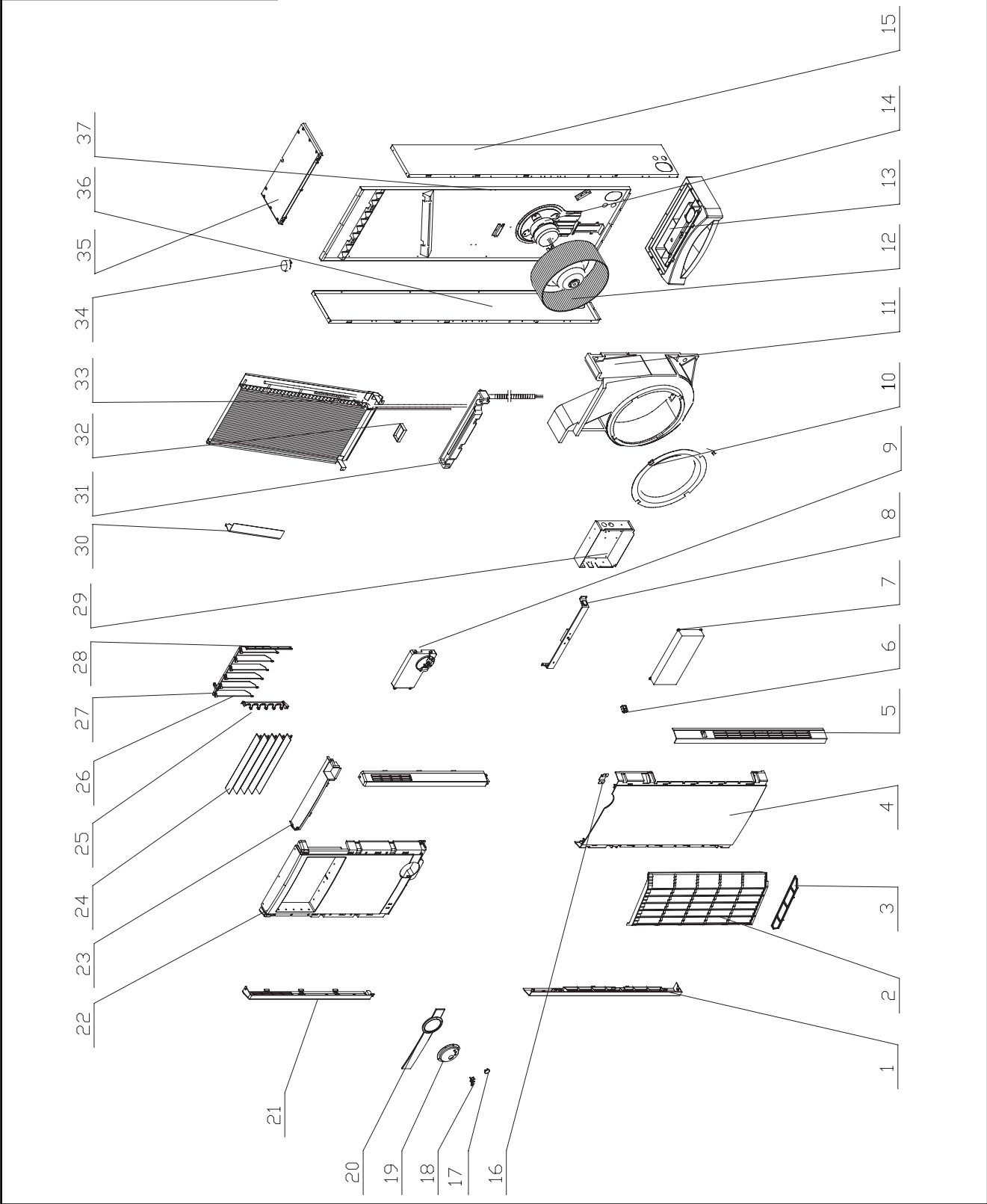
Unscrew the four foot nuts of the compressor and unsolder the connecting pipe to remove the compressor.



Foot Nut

**8 Exploded View and Components and Parts List**

**8.1 Exploded View of Indoor Unit**



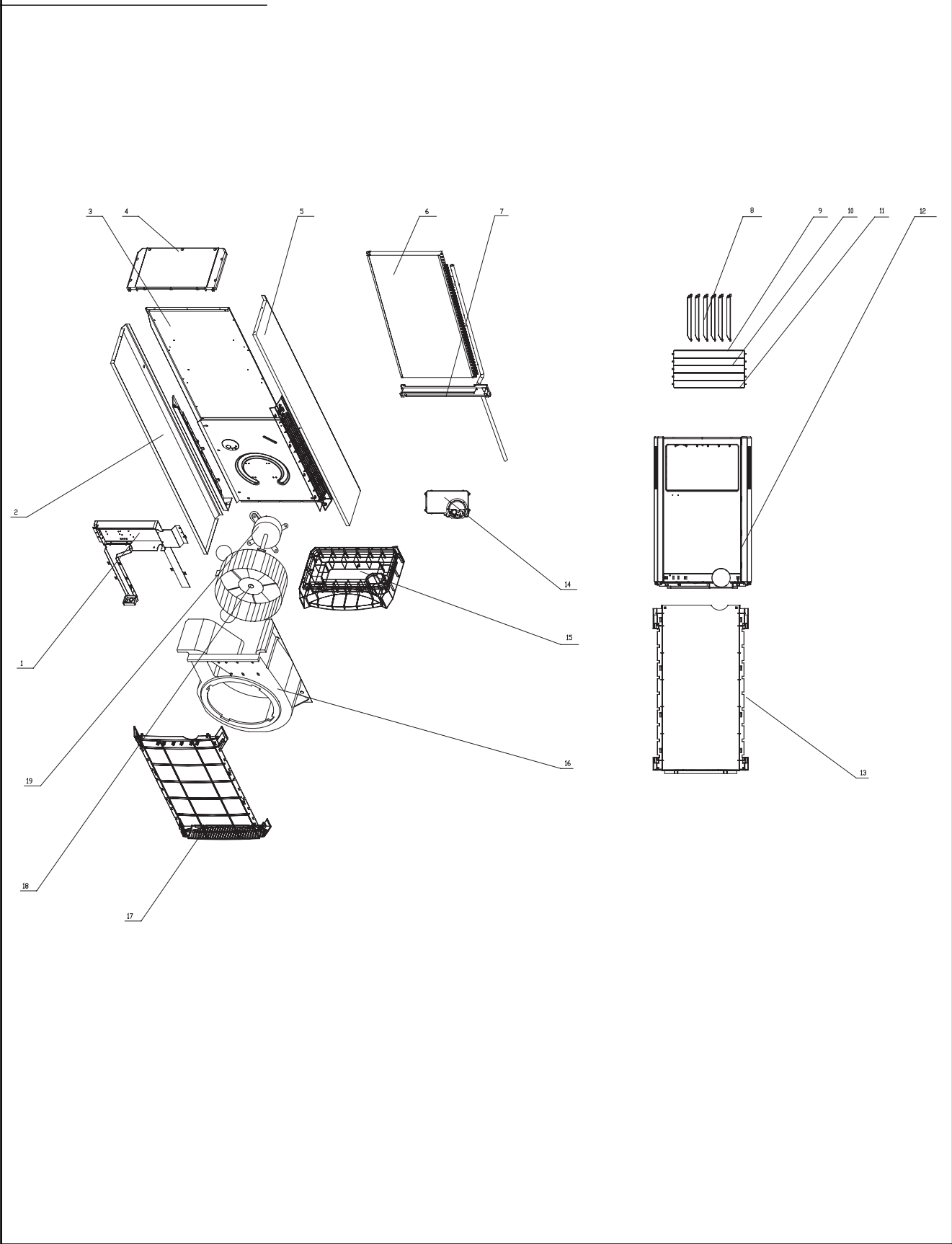
## 8. 2 Components and Parts List of Indoor Unit

No	Description	Part Code		Qty
		GVCN18AANK1A1A/I	GVHN18AANK1A1A/I	
1	ejection wind left side plate	20054009	20054009	1
2	Fliter (upper)	11124126	11124126	1
3	Fliter (lower)	11124127	11124127	1
4	ejection wind middle plate	20054014	20054014	1
5	ejection wind dexter side plate	20054013	20054013	1
6	screw cover	26114002	26114002	1
7	Electric box lid	01414054	01414054	1
8	pitman assy	01384031	01384031	1
9	controller box	20124014	20124014	1
10	Flow-guide Loop	10374001	10374001	1
11	snail shell assy	12104022	12104022	1
12	centrifugal fan	10314001	10314001	1
13	Chassis	22224009	22224009	1
14	Motor LN35Y	1501402803	1501402803	1
15	dexter plate assy	013040601	013040601	1
16	baffle	02124004	02124004	1
17	big keystone	45034086	45034086	1
18	small keystone	45034007	45034007	3
19	display fixed	26114003	26114003	1
20	metallic plate	8000400401	8000400401	1
21	ejection wind left side plate	20054010	20054010	1
22	ejection wind middle plate	20004116	20004116	1
23	middle plate	20054008	20054008	1
24	Air Guider	105140041	105140041	5
25	support bar	10584013	10584013	1
26	Air Louver	10511509	10511509	6
27	Swing Link	10584011	10584011	1
28	lower louver Linkage	10584012	10584012	1
29	Electric box	01414055	01414055	1
30	protector cover plate	22244070	22244070	1
31	drainage pan assy	20184005	20184005	1
32	airproof bowl	76514070	76514070	1
33	Evaporator Assy	01004047	01004047	1
34	step motor MP35AA	15214211	15214211	1
35	Top Cover Assy	22244015	22244015	1
36	left side plate assy	013040801	013040801	1
37	rear panel assy	013040181	013040181	1

The above data are subject to change without notice.



8.3 Exploded View of Indoor Unit

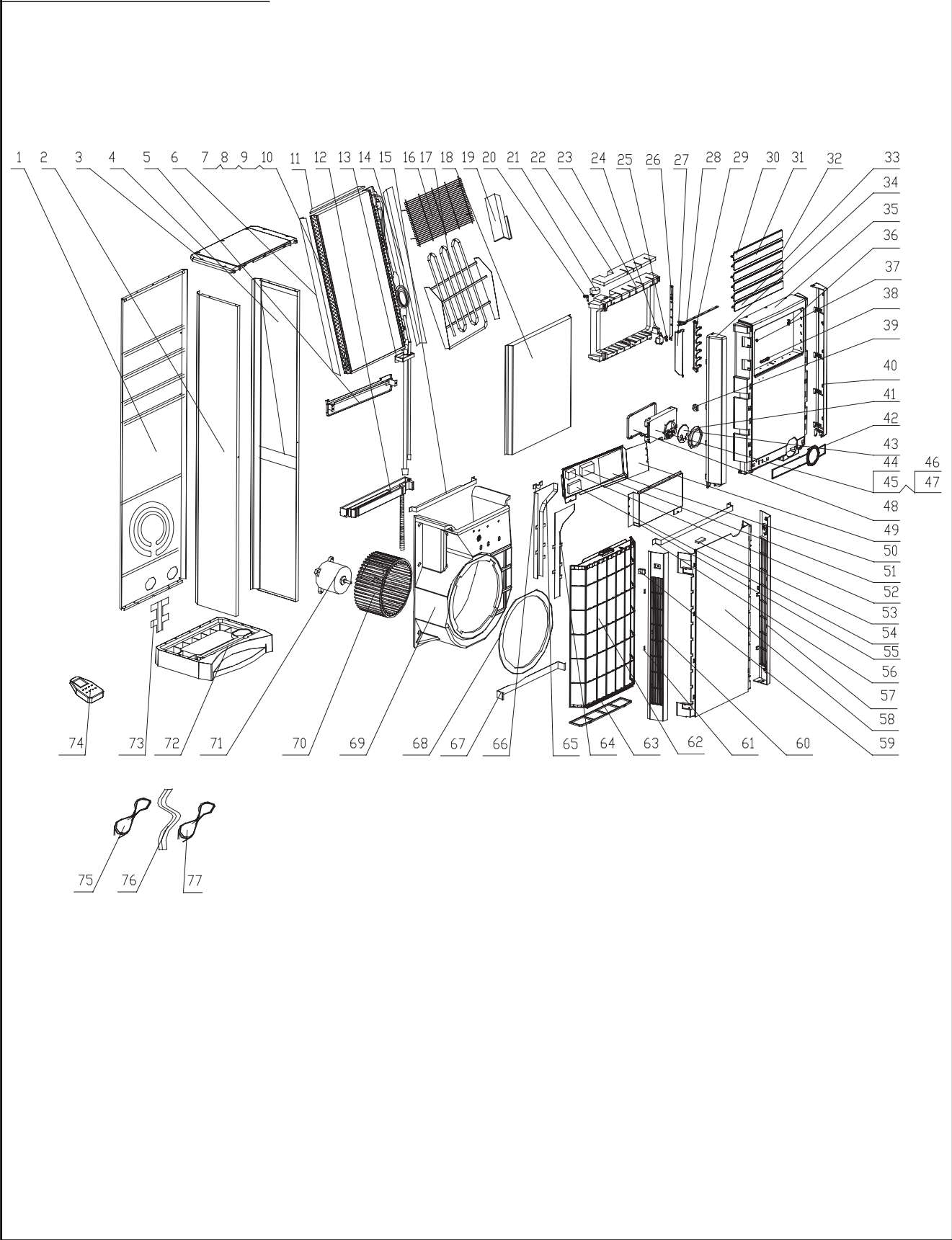


## 8. 4 Components and Parts List of Indoor Unit

No	Description	Part Code		Qty
		GVCN24AANK1A1A/I	GVHN24AANK1A1A/I	
1	Electric Box	01404705	01404706	1
2	Left Side Plate Assy	01304261	01304261	1
3	Rear Plate Assy	01304256	01304256	1
4	Top Cover Assy	22244219	22244219	1
5	Right Side Plate Assy	01304257	01304257	1
6	Evaporator Assy	0100404401	0100404401	1
7	Water Tray Assy	12414204	12414204	1
8	Air Louver	10514216	10514216	6
9	Air Guider(up)	10514219	10514219	1
10	Air Guider	10514217	10514217	3
11	Air Guider(down)	10514218	10514218	1
12	Panel Assy	200042696	20004345	1
13	Air Intake Assy	20004346	20004346	1
14	Display Assy	20114014	20114014	1
15	Underpan	22224214	22224214	1
16	Snail Shell	12104201	12104201	1
17	Filter Assy	11124217	11124217	1
18	Centrifugal Fan	10314001	10314001	1
19	Fan Motor LN40V	15014214	15014214	1

The above data are subject to change without notice.

**8.5 Exploded View of Indoor Unit**



## 8. 6 Components and Parts List of Indoor Unit

No	Description	Part Code	Qty
		GVCN36ABNM1A1A/I	
1	rear panel assy	01304447	1
2	left side plate assy	01304448	1
3	coping	22244238	1
4	dexter plate assy	01304449	1
5	breakwater assy	01364437	1
6	left weatherboard	01365431	1
7	evaporator assy	01004406	1
8	duct of enter liquid	0322424401	1
9	duct of collect gas	03634401	1
10	capillary	03014054	4
11	connect board(evaporator)	01385432	1
12	drainage pan assy	20184013	1
13	airproof bowl	76514415	1
14	dexter weatherboard	01365432	1
15	drainage pan put board	01364245	1
16	protective net	11124402	1
17	—	—	—
18	weatherboard assy	01364439	1
19	protector cover plate	22244231	1
20	wheel bearing	10564201	1
21	louver motor	15214215	1
22	sponge (thermal insulation bubble)	12114311	1
23	thermal insulation bubble	12124444	1
24	step motor	15212115	1
25	lower louver Linkage	10584080	1
26	wheel bearing 1	10564204	1
27	Air Guider	10514091	6
28	Air Guide Louver Linkage	10584020	1
29	support bar	24214012	1
30	lower louver(top)	10514088	1
31	lower louver(middle)	10514089	4
32	—	—	—
33	lower louver(underside)	10514090	1
34	ejection wind left side plate	20054025	1
35	ejection wind middle plate	2000416301	1
36	Flap wheel bearing	10564205	6
37	lower louver bearing	10544202	6
38	trademark	-	0
39	magnetism ring	49010104	1

The above data are subject to change without notice.

No	Description	Part Code	Qty
		GVCN36ABNM1A1A/I	
40	ejection wind dexter side plate	20054026	1
41	display fixed	26114003	1
42	decorate board	26114211	1
43	gramary mirror	68014006	1
44	controller box	20124014	1
45	display board	30542031	1
46	big keystoke	45034086	1
47	small keystoke	45034007	3
48	controller box	20124012	1
49	Electric box	01415434	1
50	PCB	30033058	1
51	transformer	43110262	1
52	Capacitor	33010037	1
53	magnet assy	70844202	2
54	Terminal Board	42010258	1
55	Electric box lid	01415435	1
56	pitman assy	01385402	1
57	ejection wind dexter side plate	20054028	1
58	ejection wind middle plate	20004164	1
59	screw cover	26114002	2
60	ejection wind left side plate	20054027	1
61	magnet assy	70844004	4
62	Fliter (upper)	11124075	1
63	Fliter (lower)	11124016	1
64	groove assy cover	01254012	1
65	groove assy	01744017	1
66	fixed wire clip	71010103	2
67	baffle assy	01364438	1
68	Flow-guide Loop	10374435	1
69	snail shell assy	12104432	1
70	centrifugal fan	10314401	1
71	Motor	1501442403	1
72	Chassis	22244033	1
73	pree wire board	01384201	1
74	Remote Controller	-	0
75	Connecting Cable	40030316	1
76-1	Power Cord	400205221	1
76-2	Power Connecting Cable	40020416	1
77	Connecting Cable	40030317	1

**The above data are subject to change without notice.**

No	Description	Part Code				Qty
		GVCN36ABND1A 1A/I	GVHN36ABND1A 1A/I	GVCN36ABNK1A 1A/I	GVHN36ABNK1A 1A/I	
1	rear panel assy	01304447	01304447	01304447	01304447	1
2	left side plate assy	01304448	01304448	01304448	01304448	1
3	coping	22244238	22244238	22244238	22244238	1
4	dexter plate assy	01304449	01304449	01304449	01304449	1
5	breakwater assy	01364437D	01364437D	01364437	01364437D	1
6	left weatherboard	01365431	01365431	01365431	01365431	1
7	evaporator assy	01034009	01034009	01034009	01034009	1
8	duct of enter liquid	0322423606	0322423606	0322423603	0322423603	1
9	duct of collect gas	03634123	03634123	03634123	03634123	1
10	capillary	0301409101	0301409101	03014091	03014091	4
11	connect board(evaporator)	01385432	01385432	01385432	01385432	1
12	drainage pan assy	20184013	20184013	20184013	20184013	1
13	airproof bowl	76514415	76514415	76514415	76514415	1
14	dexter weatherboard	01365432	01365432	01365432	01365432	1
15	drainage pan put board	01364245	01364245	01364245	01364245	1
16	protective net	—	11124402	—	11124402	1
17	—	—	—	—	—	1
18	weatherboard assy	01364439	01364439	01364439	01364439	1
19	protector cover plate	22244231	22244231	22244231	22244231	1
20	wheel bearing	10564201	10564201	10564201	10564201	1
21	louver motor	15214215	15214215	15214215	15214215	1
22	sponge (thermal insulation bubble)	12114311	12114311	12114311	12114311	1
23	thermal insulation bubble	12124444	12124444	12124444	12124444	1
24	step motor	15212115	15212115	15212115	15212115	1
25	lower louver Linkage	10584080	10584080	10584080	10584080	1
26	wheel bearing 1	10564204	10564204	10564204	10564204	1
27	Air Guider	10514091	10514091	10514091	10514091	6
28	Air Guide Louver Linkage	10584020	10584020	10584020	10584020	1
29	support bar	24214012	24214012	24214012	24214012	1
30	lower louver(top)	10514088	10514088	10514088	10514088	1
31	lower louver(middle)	10514089	10514089	10514089	10514089	4
32	—	—	—	—	—	—
33	lower louver(underside)	10514090	10514090	10514090	10514090	1
34	ejection wind left side plate	20054025	20054025	20054025	20054025	1
35	ejection wind middle plate	2000416301	2000416301	2000416301	2000416301	1
36	Flap wheel bearing	10564205	10564205	10564205	10564205	6
37	lower louver bearing	10544202	10544202	10544202	10544202	6
38	trademark	-	-	-	-	0

## Cooling Bay Series

No	Description	Part Code				Qty
		GVCN36ABND1A 1A/I	GVHN36ABND1A 1A/I	GVCN36ABNK1A 1A/I	GVHN36ABNK1A 1A/I	
39	magnetism ring	49010104	49010104	49010104	49010104	1
40	ejection wind dexter side plate	20054026	20054026	20054026	20054026	1
41	display fixed	26114003	26114003	26114003	26114003	1
42	decorate board	26114211	26114211	26114211	26114211	1
43	gramary mirror	68014006	68014006	68014006	68014006	1
44	controller box	20124014	20124014	20124014	20124014	1
45	display board	30542031	30563009	30542031	30563009	1
46	big keystoke	45034086	45034086	45034086	45034086	1
47	small keystoke	45034007	45034007	45034007	45034007	3
48	controller box	20124012	20124012	20124012	20124012	1
49	Electric box	01415434	01414076	01414076	01414076	1
50	PCB	30133007	30133008	30133007	30133008	1
51	transformer	43110290	43110290	43110290	43110290	1
52	Capacitor	33010037	33010037	33010037	33010037	1
53	magnet assy	70844202	70844202	70844202	70844202	2
54	Terminal Board	42010258	42010258	42010258	42010258	1
55	Electric box lid	01415435	01415435	01415435	01415435	1
56	pitman assy	01385402	01385402	01385402	01385402	1
57	ejection wind dexter side plate	20054028	20054028	20054028	20054028	1
58	ejection wind middle plate	20004164	20004164	20004164	20004164	1
59	screw cover	26114002	26114002	26114002	26114002	2
60	ejection wind left side plate	20054027	20054027	20054027	20054027	1
61	magnet assy	70844004	70844004	70844004	70844004	4
62	Fliter (upper)	11124075	11124075	11124075	11124075	1
63	Fliter (lower)	11124016	11124016	11124016	11124016	1
64	groove assy cover	01254012	01254012	01254012	01254012	1
65	groove assy	01744017	01744017	01744017	01744017	1
66	fixed wire clip	71010103	71010103	71010103	71010103	2
67	baffle assy	01364438	01364438	01364438	01364438	1
68	Flow-guide Loop	10374435	10374435	10374435	10374435	1
69	snail shell assy	12104432	12104432	12104432	12104432	1
70	centrifugal fan	10314401	10314401	10314401	10314401	1
71	Motor	1501442404	1501442404	1501442404	1501442404	1
72	Chassis	22244033	22244033	22244033	22244033	1
73	pree wire board	01384201	01384201	01384201	01384201	1
74	Remote Controller	-	-	-	-	0
75	Connecting Cable	40030316	40030310	40030316	40030310	1
76-1	Power Cord	40020546	40020546	40020546	40020546	1
76-2	Power Connecting Cable	40030334	40030334	40030334	40030334	1
77	Connecting Cable	40030317	40030309	40030317	40030309	1

**The above data are subject to change without notice.**

No	Description	Part Code		Qty
		GVHN36ABNM1A1A/I	GVHN48ABNM1A1A/I	
1	rear panel assy	01304447	01304447	1
2	left side plate assy	01304448	01304448	1
3	coping	22244238	22244238	1
4	dexter plate assy	01304449	01304449	1
5	breakwater assy	01364437	01364437	1
6	left weatherboard	01365431	01365431	1
7	evaporator assy	01004406	01034009	1
8	duct of enter liquid	0322424401	0322423604	1
9	duct of collect gas	03634401	03634123	1
10	capillary	03014054	03014438	4
11	connect board(evaporator)	01385432	01385432	1
12	drainage pan assy	20184013	20184013	1
13	airproof bowl	76514415	76514415	1
14	dexter weatherboard	01365432	01365432	1
15	drainage pan put board	01364245	01364245	1
16	protective net	11124402	11124402	1
17	heater element assy	32004401	32004401	1
18	weatherboard assy	01364439	01364439	1
19	protector cover plate	22244231	22244231	1
20	wheel bearing	10564201	10564201	1
21	louver motor	15214215	15214215	1
22	sponge (thermal insulation bubble )	12114311	12114311	1
23	thermal insulation bubble	12124444	12124444	1
24	step motor	15212115	15212115	1
25	lower louver Linkage	10584080	10584080	1
26	wheel bearing 1	10564204	10564204	1
27	Air Guider	10514091	10514091	6
28	Air Guide Louver Linkage	10584020	10584020	1
29	support bar	24214012	24214012	1
30	lower louver(top)	10514088	10514088	1
31	lower louver(middle)	10514089	10514089	4
32	——	——	——	——
33	lower louver(underside)	10514090	10514090	1
34	ejection wind left side plate	20054025	20054025	1
35	ejection wind middle plate	2000416301	2000416301	1
36	Flap wheel bearing	10564205	10564205	6
37	lower louver bearing	10544202	10544202	6
38	trademark	-	-	0
39	magnetism ring	49010104	49010104	1

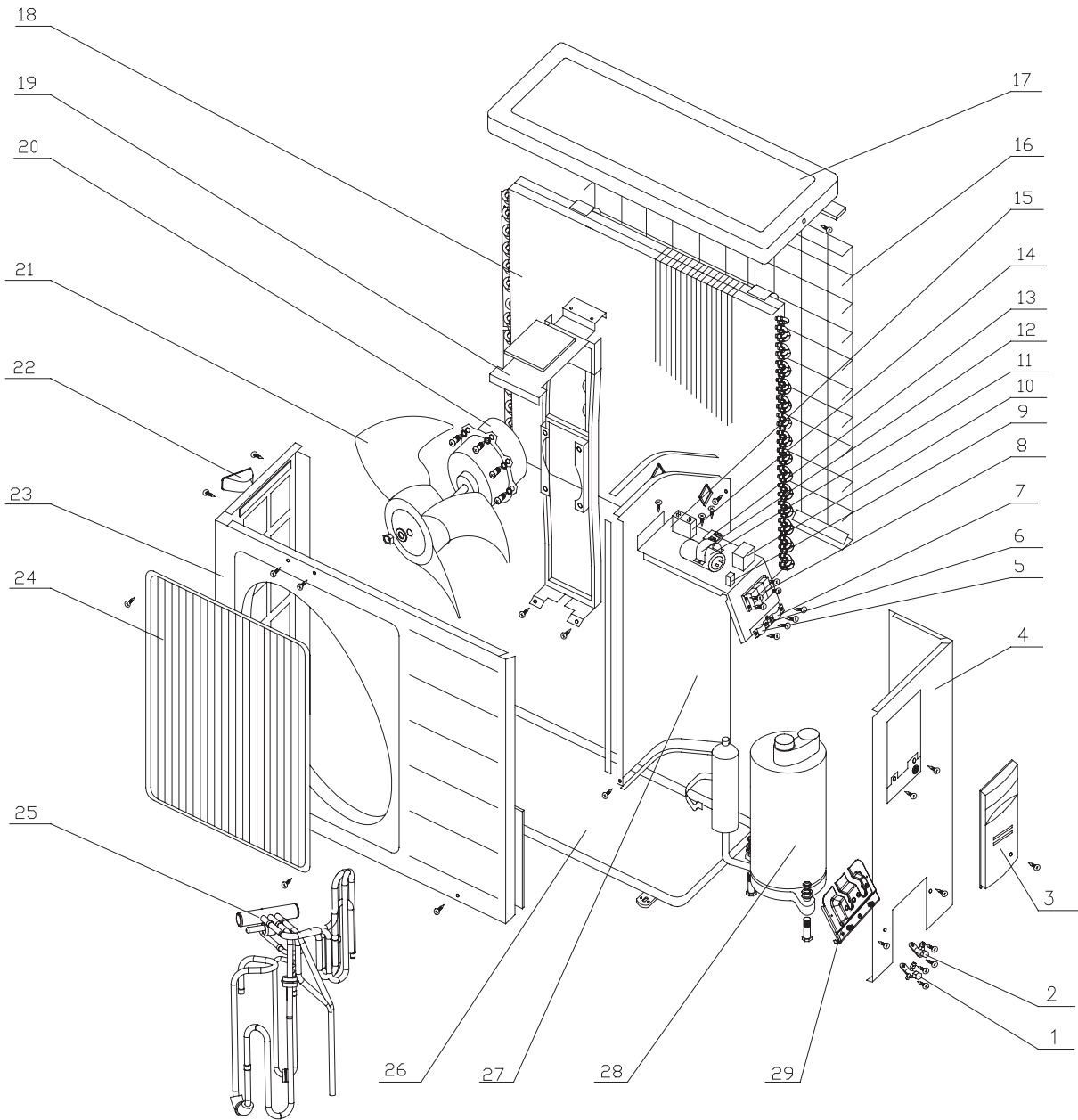


## Cooling Bay Series

No	Description	Part Code		Qty
		GVHN36ABNM1A1A/I	GVHN48ABNM1A1A/I	
40	ejection wind dexter side plate	20054026	20054026	1
41	display fixed	26114003	26114003	1
42	decorate board	26114211	26114211	1
43	gramary mirror	68014006	68014006	1
44	controller box	20124014	20124014	1
45	display board	30563009	30563009	1
46	big keystoke	45034086	45034086	1
47	small keystoke	45034007	45034007	3
48	controller box	20124012	20124012	1
49	Electric box	01415434	01415434	1
50	PCB	30033060	30033060	1
51	transformer	43110291	43110291	1
52	Capacitor	33010037	33010037	1
53	magnet assy	70844202	70844202	2
54	Terminal Board	42010258	42010258	1
55	Electric box lid	01415435	01415435	1
56	pitman assy	01385402	01385402	1
57	ejection wind dexter side plate	20054028	20054028	1
58	ejection wind middle plate	20004164	20004164	1
59	screw cover	26114002	26114002	2
60	ejection wind left side plate	20054027	20054027	1
61	magnet assy	70844004	70844004	4
62	Fliter (upper)	11124075	11124075	1
63	Fliter (lower)	11124016	11124016	1
64	groove assy cover	01254012	01254012	1
65	groove assy	01744017	01744017	1
66	fixed wire clip	71010102	71010102	2
67	baffle assy	01364438	01364438	1
68	Flow-guide Loop	10374435	10374435	1
69	snail shell assy	12104432	12104432	1
70	centrifugal fan	10314401	10314401	1
71	Motor	1501442403	1501442404	1
72	Chassis	22244033	22244033	1
73	pree wire board	01384201	01384201	1
74	Remote Controller	-	-	0
75	Connecting Cable	40030309	40030309	1
76-1	Power Cord	40030311	40030311	1
76-2	Power Connecting Cable	40030311	40030311	1
77	Connecting Cable	40030310	40030310	1

**The above data are subject to change without notice.**

## 8.7 Exploded View of Outdoor Unit



## 8.8 Components and Parts List of Outdoor Unit

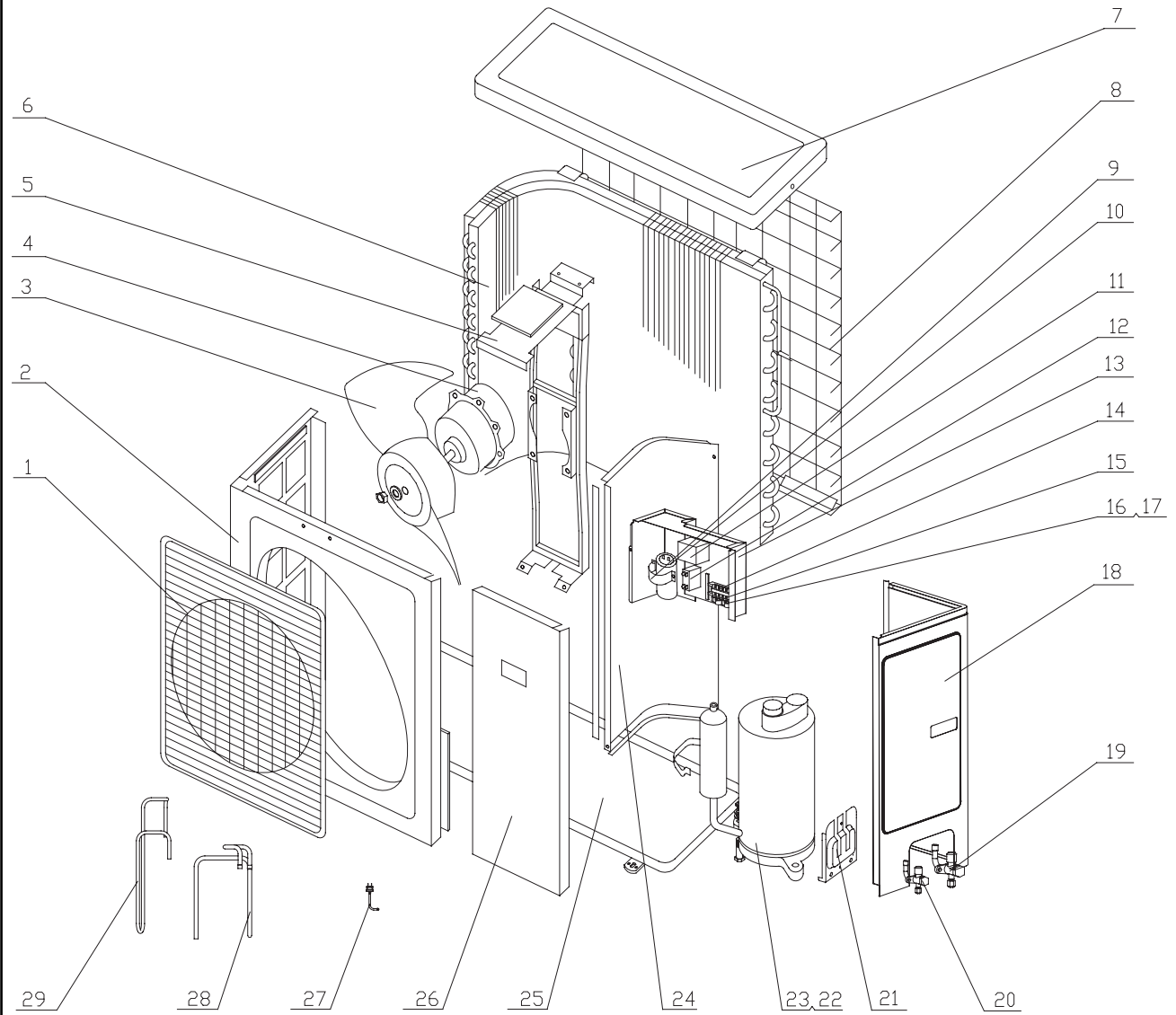
No	Description	Part Code	Qty
		GVCN18AANK1A1A/O	
1	cut-off valve 1/4	07130211	1
2	cut-off valve 1/2	071302114	1
3	Handle	26235254	1
4	Rear Side Plate	01305013	1
5	Wire Clamp	71010003	1
6	insulating tape	70410503	1
7	terminal board	42011113	1
8	PTC	34060008	1
9	AC Contactor	44010245	1
10	Capacitor	33000001	1
11	Capacitor Clamp	02143401	1
12	Capacitor	33010026	1
13	Electric Box Assy	01405039	1
14	Motor support	0170510701	1
15	Top cover	01255001	1
16	Condenser assy	01105159	1
17	Motor support	0170510701	1
18	Motor LW48B	15013070	1
19	Axial flow fan	10333426	1
20	Handle	26235253	1
21	Front plate	01435001P	1
22	Front grill	22415001	1
23	vent-pipe	03615351	1
24	inhale air pipe	03635303	1
25	Metal Base	01205076P	1
26	Isolation Sheet Assy	01233035	1
27	Compressor and fittings	00100195	1
28	Valve support sub-assy	01715006	1

The above data are subject to change without notice.

No	Description	Part Code	Qty
		GVHN18AANK1A1A/O	
1	cut-off valve 1/4	07130211	1
2	cut-off valve 1/2	071302114	1
3	Handle	26235254	1
4	Rear Side Plate	01305013	1
5	Wire Clamp	71010103	1
6	insulating tape	70410523	1
7	Wire Clamp	71010102	1
8	terminal board	42011113	1
9	PTC	34060008	1
10	AC Contactor	44010245	1
11	Capacitor	33000001	1
12	Capacitor Clamp	02143401	1
13	Terminal Board 2-8	42011103	1
14	Capacitor	33010026	1
15	Electric Box Assy	01405039	1
16	Motor support	0170510701	1
17	Top cover	01255001	1
18	Condenser assy	01105159	1
19	Motor support	0170510701	1
20	Motor LW68B	15015057	1
21	Axial flow fan	10335258	1
22	Handle	26235253	1
23	Front plate	01435001P	1
24	Front grill	22415001	1
25	4-way rever -sing valve component	03025055	1
	4-way Valve	43000403	1
	4-way Valve Coil	430004002	1
26	Metal Base	01205076P	1
27	Isolation Sheet Assy	01233035	1
28	Compressor and fittings	00100195	1
29	Valve support sub-assy	01715006	1

The above data are subject to change without notice.

8.9 Exploded View of Outdoor Unit

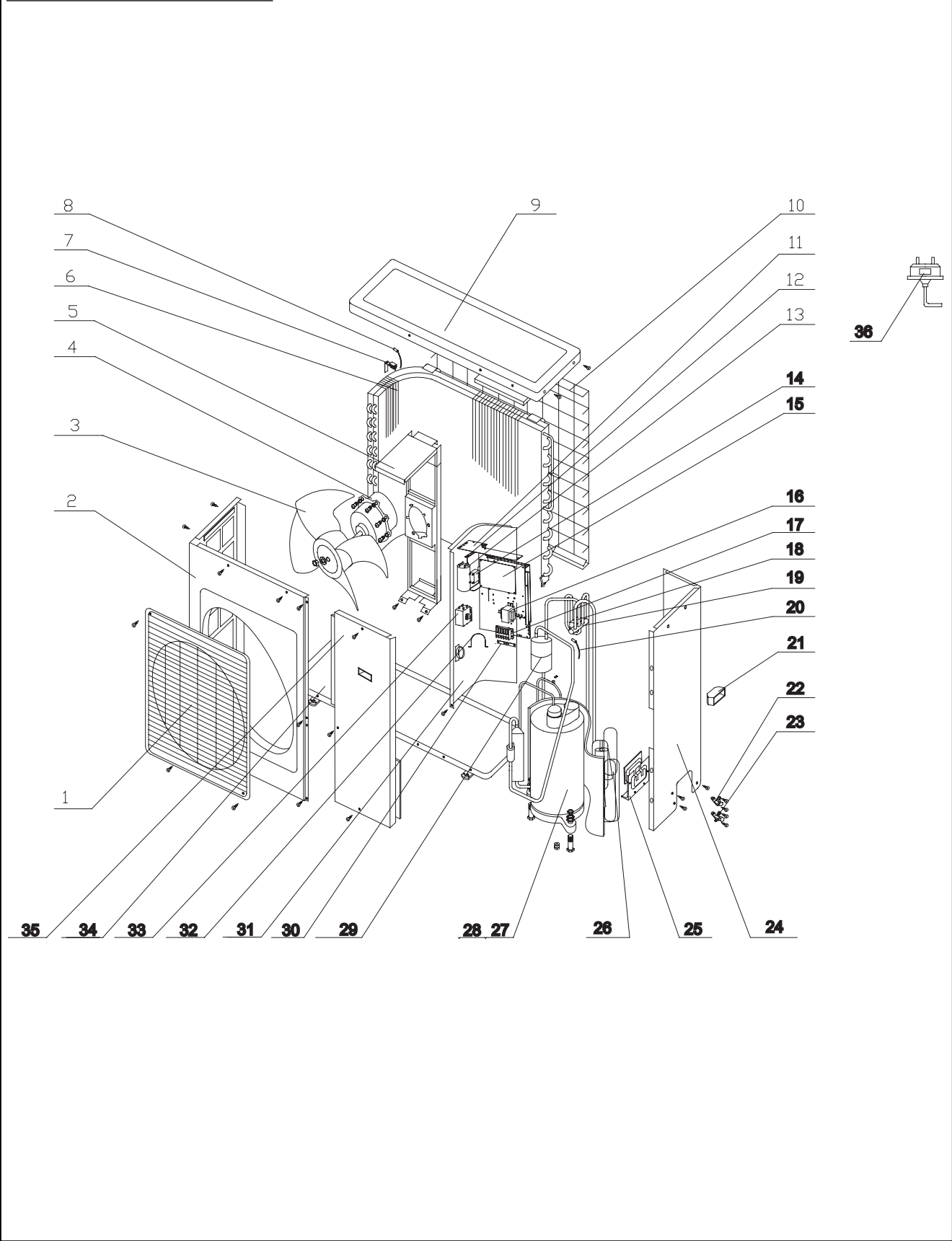


## 8. 10 Components and Parts List of Outdoor Unit

No	Description	Part Code	Qty
		GVCN24AANK1A1A/O	
1	Front Grill	22414102	1
2	Front Plate	01433017P	1
3	Axial Flow Fan	10333426	1
4	Fan motor LW48B	15013070	1
5	Motor Support	01703027	1
6	Condenser assy	01105179	1
7	Top Cover	01255262	1
8	Rear Grill	01473028	1
9	Capacitor Clamp	02141375	1
10	Capacitor CBB65 60uF/450V	33000039	1
11	AC Contactor CJX9B-25S/00	44010256	1
12	Capacitor CBB61 3.5uF/450V	33010010	1
13	Electric box sub-assy	01405001	1
14	Terminal Board	42011113	1
15	Wire Clamp	71010102	1
16	Wire Clamp	71010103	1
17	Isolation Washer C	70410523	1
18	Rear side plate	01305036	1
19	Gas Valve Assy 5/8"	07105252	1
20	Liquid Valve Assy 3/8"	071302113	1
21	Valve support sub-assy	01715001	1
22	Compressor LH42VBDC	00105018	1
23	Sound-absorbing Sponge	75013118	1
24	Mid Clapboard Sub-Assy	01233024	1
25	Underpan Sub-Assy	01205203	1
26	Front Side Plate	01303023	1
27	Pressure Switch	46020003	1
28	Inhalation Tube Sub-Assy	03635367	1
29	Discharge Tube	03615400	1

The above data are subject to change without notice.

**8. 11 Exploded View of Outdoor Unit**



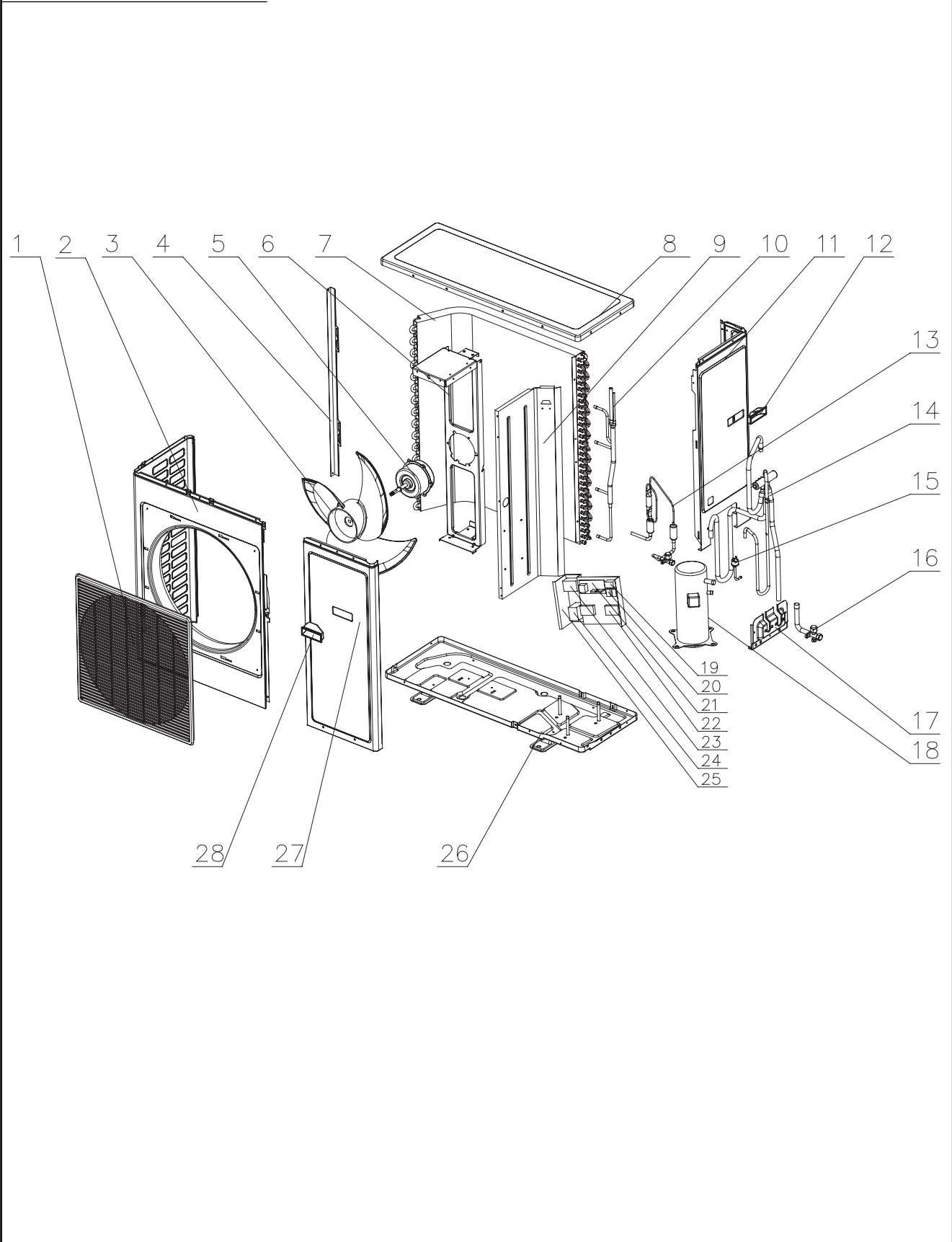
## 8. 12 Components and Parts List of Outdoor Unit

No	Description	Part Code	Qty
		GVHN24AANK1A1A/O	
1	Front Grill	22414102	1
2	Front Plate	01433017P	1
3	Axial Flow Fan	10338731	1
4	Fan motorLW70A	15015421	1
5	Motor Support	01703027	1
6	Condenser assy	01105163	1
7	Temp Sensor Support	/	/
8	Ambient Sensor	/	/
9	Top Cover	01255262	1
10	Rear Grill	01473028	1
11	upper Electric box cover	01413047	1
12	Electric box sub-assy	01405001	1
13	Capacitor CBB65 60uF/450V	33000039	1
14	Capacitor CBB61 3.5uF/450V	33010010	1
15	Main PCB	/	/
16	Transformer 41X26.5G	/	/
17	Terminal Board	42011113	1
18	4-way Valve Coil	430004002	1
19	4-way Valve	43000404	1
20	Temp Sensor	390001214	1
21	Handle	26235253	1
22	Gas Valve Assy 5/8"	07105252	1
23	Liquid Valve Assy 3/8"	071302232	1
24	Rear side plate	01305036	1
25	Valve support sub-assy	01715001	1
26	Capillary Assy	03005126	1
27	Compressor 5VS270EAA21	00105018	1
28	Overload Protector	75013118	1
29	Gas-liquid Separator	/	/
30	Isolation Washer C	70410523	1
31	Clapboard	012330241	1
32	Capacitor Clamp	02141375	1
33	AC Contactor CJX9B-25S/01	44010256	1
34	Metal Base	012052071	1
35	Front Side Plate	01303023	1
36	Pressure Switch	46020011	1

The above data are subject to change without notice.



8. 13 Exploded View of Outdoor Unit



## 8. 14 Components and Parts List of Outdoor Unit

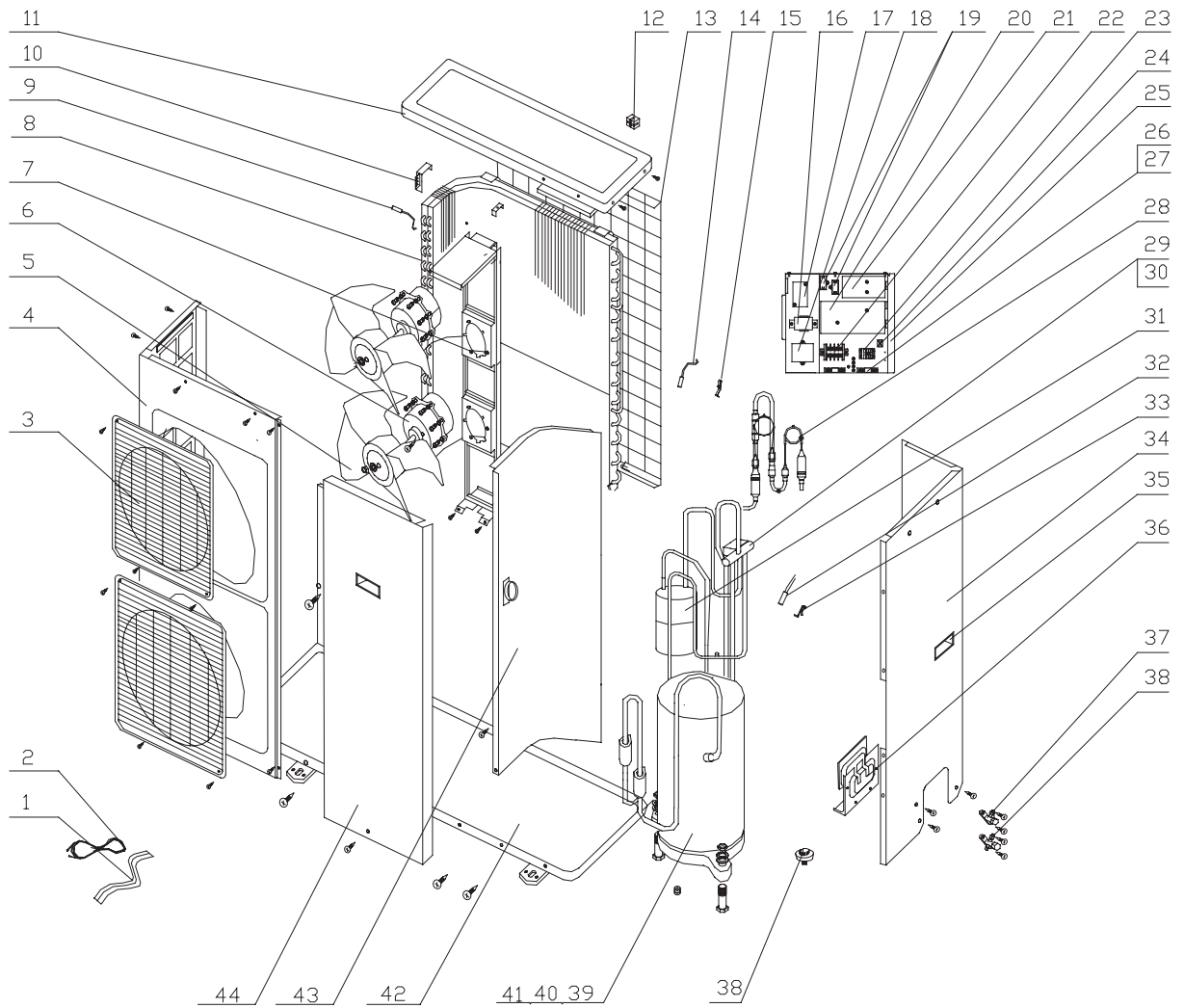
No	Description	Part Code	Qty
		GVCN36ABNM1A1A/O	
1	Front grill	22265401	1
2	Front plate	01435402	1
3	Axial flow fan	10335401	1
4	Condenser support assy	01175402	1
5	Motor LW92B	15015401	1
6	Motor support	01705402	1
7	Condenser assy	01135401	1
8	Top cover	01255402	1
9	Clapboard Sub-Assy	01235403	1
10	Atmolysis Pipe Sub-Assy	03635388	1
11	Rear Side Plate Sub-Assy	01305402	1
12	Handle	26235253	1
13	Assistant Capillary Sub-Assy	—	—
14	4-way Valve	—	—
15	Pressure Protect Switch	46020003	1
16	Gas Valve Sub-Assy	071034011	1
17	Valve Support Sub-Assy	01715001	1
18	Compressor JT125GABY1L	00120215	1
19	Capacitor CBB61 3.5uF/450V	33010010	1
20	Terminal Board	42011103	2
21	Over Current Protector	46020112	1
22	Terminal Board	42010258	1
23	Anti-phase Protector	46020052	1
24	AC Contactor	44010226	1
25	Electric Box Sub-Assy	01404325	1
26	Metal Base	01205404	1
27	Front Plate	01305406	1
28	Handle	26235253	1

The above data are subject to change without notice.

No	Description	Part Code	Qty
		GVHN36ABNM1A1A/O	
1	Front grill	22265401	1
2	Front plate	01435402	1
3	Axial flow fan	10335401	1
4	Condenser support assy	01175402	1
5	Motor LW92B	15015401	1
6	Motor support	01705402	1
7	Condenser assy	01135401	1
8	Top cover	01255402	1
9	Clapboard Sub-Assy	01235403	1
10	Atmolysis Pipe Sub-Assy	03635388	1
11	Rear Side Plate Sub-Assy	01305402	1
12	Handle	26235253	1
13	Assistant Capillary Sub-Assy	03005231	1
14	4-way Valve	03025224	1
15	Pressure Protect Switch	46020003	1
16	Gas Valve Sub-Assy	07105405	1
17	Valve Support Sub-Assy	01715402	1
18	Compressor JT125GABY1L	00120215	1
19	Capacitor CBB61 3.5uF/450V	33010010	1
20	Terminal Board	42011103	1
21	Over Current Protector	46020112	1
22	Terminal Board	42010258	2
23	Anti-phase Protector	46020052	1
24	AC Contactor	44010226	1
25	Electric Box Sub-Assy	01404325	1
26	Metal Base	01205404	1
27	Front Plate	01305406	1
28	Handle	26235253	1

**The above data are subject to change without notice.**

## 8. 15 Exploded View of Outdoor Unit



**8. 16 Components and Parts List of Outdoor Unit**

No	Description	Part Code				Qty
		GVCN36ABND1A 1A/O	GVHN36ABND1A 1A/O	GVCN36ABNK1A 1A/O	GVHN36ABNK1A 1A/O	
1	Connecting Cable	-	-	-	-	0
2	Power Cord	-	-	-	-	0
3	Front grill	22414102	22414102	22414102	22414102	2
4	Front plate	01435436	01435436	01435436	01435436	1
5	Axial flow fan	10338731	10338731	10338731	10338731	2
6	Motor LW68A	15015421	15015421	15015421	15015421	2
7	Motor support	01705106Y	01705106Y	01705433	01705106Y	1
8	Condenser assy	01135436	0110514603	01105266	0110514601	1
9	Temp Sensor	—	39000199	—	39000199	1
10	Sensor holder	24215101	24213502	24215101	24213502	1
11	Top cover	01255262	01255262	01255262	01255262	1
12	Rear grill padding	-	-	-	-	0
13	Rear grill	01475005	01475005	01475005	01475005	1
14	—	—	—	—	—	—
15	Temp Sensor Insert	42020063	42020063	42020063	42020063	1
16	Transformer	-	-	-	-	0
17	Ac contactor	44010265	44010265	44010265	44010265	1
18	—	—	—	—	—	—
19	Capacitor 3.5uF	33010010	33010010	33010010	33010010	2
20	Main PCB	-	-	-	-	0
21	Over current protector	46020121	46020121	46020121	46020121	1
22	Wiring terminal	42010258	42010258	42010258	42010258	1
23	Wiring terminal	-	-	-	-	0
24	Wiring terminal 2-8	42011103	42011103	42011103	42011103	3
25	Electric box assy	01405055	01405055	01405055	01405055	1
26	Wiring clamp	71010005	71010103	71010103	71010103	3
27	Isolation Washer F	70410524	70410524	70410524	70410524	1
28	Capillary Assy	—	0300505802	—	03005058	1
29	4-way Valve	—	43000405	—	43000405	1
30	4-way Valve Coil	—	4300040036	—	430004002	1
31	Gas-liquid Separator	07225011	07225011	07225011	07225011	1
32	Temp Sensor	39000163	39000163	39000163	39000163	1
33	Temp Sensor Insert	42020063	42020063	42020063	42020063	1
34	Rear Side Plate	01303712	01303712	01303712	01303712	1
35	Handle	26235253	26235253	26235253	26235253	3
36	Valve Support	01715001	01715001	01715001	01715001	1
37	Liquid Valve Assy	071302361	071302363	071302361	071302363	1
38	Gas Valve Assy	07103401	7103401	07103401	07103401	1
39	Drainage Connector	—	06123401	—	06123401	1
40	Compressor 303DH-50B2	00120131	00120131	00120121	00120121	1
41	Overload Protector	Built in	Built in	Built in	Built in	
42	Compressor Gasket	-	-	-	-	4
43	Metal Base	012054335	012054325	012054325	012054325	1
44	Isolation Sheet Assy	01235440	01235440	01235440	01235440	1
45	Front Plate	01305431	01305431	01305431	01305431	1

**The above data are subject to change without notice.**

No	Description	Part Code	Qty
		GVHN48ABNM1A1A/O	
1	Connecting Cable	-	0
2	Power Cord	-	0
3	Front grill	22265251	2
4	Front plate	01435433	1
5	Axial flow fan	10335253	2
6	Motor LW68A	15015421	2
7	Motor support	01705433	1
8	Condenser assy	011054372	1
9	Temp Sensor	39000199	1
10	Sensor holder	24215101	1
11	Top cover	01255262	1
12	Rear grill padding	-	0
13	Rear grill	01475432	1
14	Temp Sensor	39000194	1
15	Temp Sensor Insert	42020063	1
16	Transformer	-	0
17	Ac contactor	44010226	1
18	Reverse Phase Protector	46020052	1
19	Capacitor 3.5uF	33010010	2
20	Main PCB	-	0
21	Over current protector	46020112	1
22	Wiring terminal	42010258	2
23	Wiring terminal	-	0
24	Wiring terminal 2-8	42011103	2
25	Electric box assy	01405471	1
26-1	Wiring clamp	71010102	2
26-2	Wiring clamp	71010103	1
27	Isolation Washer F	70410524	1
28	Capillary Assy	0300506302	1
29	4-way Valve	43000405	1
30	4-way Valve Coil	430004002	1
31	Gas-liquid Separator	07225433	1
32	Temp Sensor	39000163	1
33	Temp Sensor Insert	42020066	1
34	Rear Side Plate	01305030P	1
35	Handle	26235253	3
36	Valve Support	01715001	1
37	Liquid Valve Assy	071302361	1
38	Gas Valve Assy	071034011	1
39	Drainage Connector	06123401	1
40	Compressor JT160GABY1L	00120137	1
41	Overload Protector	Built in	
42	Compressor Gasket	-	4
43	Metal Base	012054332	1
44	Isolation Sheet Assy	01235440	1
45	Front Plate	01305431	1

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## 9 Trouble shooting

