



**ROOFTOP PACKAGED SERVICE MANUAL**

**T3/R22/50&60Hz  
(GC201205-I)**

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# PRODUCT

## PRODUCT 1 MODELS LIST

Nominal Capacity (Ton)	Model			Power Supply (V, Ph, Hz)	Appearance
	Refrigerant	Model Name	Product Code		
3	R22	GK-C03TC1AD	EJ51000160	220V, 1Ph, 60Hz	
3	R22	GK-C03TC1AD	EJ51000161	220V, 1Ph, 60Hz	
3	R22	GK-C03TC1AK	EJ51000200	220V, 1Ph, 50Hz	
4	R22	GK-C04TC1AD	EJ51000170	220V, 1Ph, 60Hz	
4	R22	GK-C04TC1AF	EJ51000470	220V, 3Ph, 60Hz	
4	R22	GK-C04TC1AM	EJ51000210	380~415V, 3Ph, 50Hz	
5	R22	GK-C05TC1AF	EJ51000190	220V, 3Ph, 60Hz	
5	R22	GK-C05TC1AF	EJ51000191	220V, 3Ph, 60Hz	
5	R22	GK-C05TC1AM	EJ51000220	380~415V, 3Ph, 50Hz	
5	R22	GK-H05TC1AM	EJ51000320	380~415V, 3Ph, 50Hz	
8	R22	GK-C08TC1AF	EJ51000151	220V, 3Ph, 60Hz	
8	R22	GK-C08TC1AM	EJ51000230	380~415V, 3Ph, 50Hz	
8	R22	GK-H08TC1AM	EJ51000311	380~415V, 3Ph, 50Hz	
10	R22	GK-C10TC1AF	EJ51000061	220V, 3Ph, 60Hz	
10	R22	GK-C10TC1AM	EJ51000240	380~415V, 3Ph, 50Hz	
10	R22	GK-H10TC1AM	EJ51000331	380~415V, 3Ph, 50Hz	
13	R22	GK-C13TC1AF	EJ51000300	220V, 3Ph, 60Hz	
15	R22	GK-C15TC1AF	EJ51000180	220V, 3Ph, 60Hz	
15	R22	GK-C15TC1AF	EJ51000181	220V, 3Ph, 60Hz	
15	R22	GK-C15TC1AM	EJ51000250	380~415V, 3Ph, 50Hz	
15	R22	GK-H15TC1AM	EJ51000340	380~415V, 3Ph, 50Hz	
20	R22	GK-C20TC1AF	EJ51000260	220V, 3Ph, 60Hz	
20	R22	GK-C20TC1AM	EJ51000280	380~415V, 3Ph, 50Hz	
20	R22	GK-H20TC1AM	EJ51000350	380~415V, 3Ph, 50Hz	
25	R22	GK-C25TC1AF	EJ51000270	220V, 3Ph, 60Hz	
25	R22	GK-C25TC1AM	EJ51000290	380~415V, 3Ph, 50Hz	
30	R22	GK-C30TC1AM	EJ51000450	380V, 3Ph, 50Hz	
25	R22	GK-H25TH1AM	EJ51000361	380~415V, 3Ph, 50Hz	
30	R22	GK-H30TH1AM	EJ51000370	380~415V, 3Ph, 50Hz	

Note:

- Above pictures may be different from actual model.
- 1Ton =12000Btu/h = 3.517kW.

## 2 NOMENCLATURE

GK	—	C	10	T	C	1	A	F
1		2	3	4	5	6	7	8

NO.	Description	Options
1	Product Category	GK=GREE Rooftop Packaged Air-condition
2	Product Function Code	C = Cooling only type; H = Heat pump type.
3	Cooling/Heating Capacity	03=3Ton; 05=5Ton; 10=10Ton.....
4	Operating Condition	T=T3 Condition; N=T1 Condition.
5	Airflow Options	H=Horizontal; C=Convertible.
6	Refrigerant Options	1=R22; 2=R407C; 3=R410a; 4=R134a.
7	Design Code	A,B,C.....
8	Voltage Options	D=220V,60Hz,1ph; K=220V,50Hz,1ph F=220V,60Hz,3ph M=380~415V,50Hz,3ph

## 3 FUNCTION

Function	Description
OPERATING EFFICIENCY	All units provide high operating efficiencies and have a minimum EER of 8 or above.
ON SITE FLEXIBILITY	The series of model are divided into several sizes, which approximate tons share a common, compact design cabinet with a single footprint. The installer has the flexibility of setting one curb and placing the proper tonnage unit on that curb after the standard load has been determined.
CONVERTIBLE AIRFLOW DESIGN	The Bottom duct openings are covered when they leave the factory ready to be used for a side supply / side return application. If a bottom supply / bottom return application is desired, you simply remove the two panels from the bottom of the unit and place them in the side supply / side return duct openings. No panel cutting is required and no accessory panel is necessary. Convertible airflow design allows maximum field flexibility and minimum inventory.
EXCLUSIVE COIL DESIGN	Grooved copper tubes and enhanced aluminum fin construction improves heat transfer for maximum efficiency and durability.
TOP DISCHARGE	The top discharge condenser fan does not disrupt neighboring areas and does not dry-out vegetation surrounding the unit. The warm air from the top mounted fan is blown up away from the structure and any landscaping. This allows compact location on multi-unit applications.
LOW OPERATING SOUND LEVEL	The upward air flow carries the normal operating noise up and away from the living area. The rigid and unique shock absorption structure greatly reduces the vibration and effectively isolates motor sound.
SPACE SAVING	With compact and unitary structure, the unit can be connected and assembled at field, which is in favor of transport and installation and saves indoor space.

## 4 PRODUCT DATA

### 4.1 PRODUCT DATA AT RATED CONDITION

Nominal Capacity		(Ton)	3	3	4
Model Name			GK-C03TC1AD	GK-C03TC1AD	GK-C04TC1AD
Product Code			EJ51000160	EJ51000161	EJ51000170
Performance	Net Cooling Capacity	Btu/h	35830	35830	47770
		W	10500	10500	14000
	Air Circulation	CFM(m <sup>3</sup> /h)	959(1630)	1176(2000)	1029(1750)
	Rated ESP	In.wg (Pa)	0.1(25)	0.15(37)	0.1(25)
	EER	Btu/h /W	8	7.63	8
Electrical Data	Power Supply	V, PH, Hz	220V,1PH,60Hz	220V,1PH,60Hz	220V,1PH,60Hz
	M.C.A	Amps	25	32	37
	Power Input	W	4300	4720	6000
Indoor Coil	Type		Aluminum fin-copper tube		
	Face Area	sq.ft (m <sup>2</sup> )	3.01(0.28)	2.98(0.277)	3.01(0.28)
	Row/FPI		3/16	3/16	3/16
Indoor fan	Type		Centrifugal	Centrifugal	Centrifugal
	Quantity		1	1	1
	Diameter	inch	9	9.84	9
	Drive Type		Direct	Direct	Direct
	Motor output	Hp	1/3	1/3	1/2
	Motor rpm	rpm	1030	1030	970
Compressor	Type		Scroll	Scroll	Scroll
	Quantity		1	1	1
	Oil type		SAY56T	SAY56T	SAY56T
Outdoor Coil	Type		Aluminum fin-copper tube		
	Face Area	sq.ft (m <sup>2</sup> )	8.06(0.75)	8.23(0.765)	7.85(0.73)
	Row/FPI		1/16	1/16	2/16
Outdoor Fan	Type		Axial fan	Axial fan	Axial fan
	Quantity		1	1	1
	Diameter	inch	23	23	23
	Drive Type		Direct	Direct	Direct
	Motor output	Hp	1/3	1/3	1/3
	Motor rpm	rpm	1080	1080	1080
Dehumidifying	l/h		3.6	4.5	4.5
Drain Connection Size	inch		3/4	3/4	3/4
Refrigerant	Refrigerant charge	kg (lbs)	1.7(3.75)	1.8(3.97)	3.5(7.72)
		Type/Circuit	R22/One refrigerant circuit		
	Refrigerant Control		Capillary tube	Capillary tube	Capillary tube
Dimensions(W*D*H)	Outline	inch	53×41.5×25.2	53×41.5×25.2	53×41.5×25.2
		mm	1345×1055×640	1345×1055×640	1345×1055×640
	Package	inch	54.8×43.3×26.2	54.8×43.3×26.2	54.8×43.3×26.2
		mm	1392×1100×665	1392×1100×665	1392×1100×665
Weight	Net	kg (lbs)	185(408)	185(408)	185(408)
	Gross	kg (lbs)	190(419)	190(419)	190(419)
Filter		Washable synthetic			
Stuffing Quantity	20ft/40ft/40ft(Hi)		24/48/64	24/48/64	24/48/64

Nominal Capacity		(Ton)	4	5
Model Name			GK-C04TC1AF	GK-C05TC1AF
Product Code			EJ51000470	EJ51000191
Performance	Net Cooling Capacity	Btu/h	460755	546080
		W	135000	160000
	Air Circulation	CFM (m <sup>3</sup> /h)	1357(2300)	1650(2800)
	Rated ESP	In.wg (Pa)	0.2(50)	0.2(50)
	EER	Btu/h /W	8.44	8.17
Electrical Data	Power Supply	V, PH, Hz	220V,3PH,60Hz	220V,3PH,60Hz
	M.C.A	Amps	32	40
	Power Input	W	5450	6730
Indoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	3.87(0.28)	3.87(0.36)
	Row/FPI		4/16	4/16
Indoor fan	Type		Centrifugal	
	Quantity		1	1
	Diameter	inch	10.24	10.86
	Drive Type		Direct	
	Motor output	Hp	0.7	0.7
	Motor rpm	rpm	1090	1090
Compressor	Type		Scroll	Scroll
	Quantity		1	1
	Oil type		SAY56T	L-DRC/B56
Outdoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	8.4(0.78)	10.76(1)
	Row/FPI		2/16	2/16
Outdoor Fan	Type		Axial fan	
	Quantity		1	1
	Diameter	inch	23	23
	Drive Type		Direct	
	Motor output	Hp	1/3	1/3
	Motor rpm	rpm	1080	1080
Dehumidifying	l/h		4.5	6.2
Drain Connection Size	inch		3/4	3/4
Refrigerant	Refrigerant charge	kg (lbs)	3.6(7.9)	4.3(9.5)
		Type/Circuit	R22/One refrigerant circuit	
	Refrigerant Control		Capillary tube	
Dimensions(W*D*H)	Outline	inch	53×41.5×25.2	53×41.5×31.1
		mm	1345×1055×640	1345×1055×790
	Package	inch	54.8×43.3×26.2	54.8×43.3×32.1
		mm	1392×1100×665	1392×1100×815
Weight	Net	kg (lbs)	190(419)	210(463)
	Gross	kg (lbs)	195(430)	220(485)
Filter		Washable synthetic		
Stuffing Quantity	20ft\40ft\40ft(Hi)		24/48/64	16/32/48

Nominal Capacity		(Ton)	3	4
Model Name			GK-C03TC1AK	GK-C04TC1AM
Product Code			EJ51000200	EJ51000210
Performance	Net Cooling Capacity	Btu/h	35830	47770
		W	10500	14000
	Air Circulation	CFM (m <sup>3</sup> /h)	962(1630)	1032(1750)
	Rated ESP	In.wg (Pa)	0.1(25)	0.1(25)
	EER	Btu/h /W	9	9
Electrical Data	Power Supply	V, PH, Hz	220V,1PH,50Hz	380-415V,50Hz,3Ph
	M.C.A	Amps	25	14
	Power Input	W	4700	5400
Indoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	3.01(0.28)	3.01(0.28)
	Row/FPI		3/16	3/16
Indoor fan	Type		Centrifugal	Centrifugal
	Quantity		1	1
	Diameter	inch	9	9
	Drive Type		Direct	Direct
	Motor output	Hp	1/2	1/2
	Motor rpm	rpm	1220	1220
Compressor	Type		Scroll	Scroll
	Quantity		1	1
	Oil type		SAY56T	SAY56T
Outdoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	7.96(0.74)	7.96(0.74)
	Row/FPI		1/16	1/16
Outdoor Fan	Type		Axial fan	Axial fan
	Quantity		1	1
	Diameter	inch	23	23
	Drive Type		Direct	Direct
	Motor output	Hp	1/2	1/2
	Motor rpm	rpm	915	915
Dehumidifying	l/h		3.6	4.5
Drain Connection Size	inch		3/4	3/4
Refrigerant	Refrigerant charge	kg (lbs)	1.8(3.97)	3.5(7.72)
		Type/Circuit	R22/One refrigerant circuit	
	Refrigerant Control		Capillary tube	Capillary tube
Dimensions(W*D*H)	Outline	inch	53×41.5×25.2	53×41.5×25.2
		mm	1345×1055×640	1345×1055×640
	Package	inch	54.8×43.3×26.2	54.8×43.3×26.2
		mm	1392×1100×665	1392×1100×665
Weight	Net	kg (lbs)	185(408)	185(408)
	Gross	kg (lbs)	190(419)	190(419)
Filter		Washable synthetic		
Stuffing Quantity	20ft\40ft\40ft(Hi)		24/48/64	24/48/64



Nominal Capacity		(Ton)	5	8
Model Name			GK-C05TC1AF	GK-C08TC1AF
Product Code			EJ51000190	EJ51000151
Performance	Net Cooling Capacity	Btu/h	59710	95531
		W	17500	28000
	Air Circulation	CFM (m <sup>3</sup> /h)	2071(3520)	3245(5500)
	Rated ESP	In.wg (Pa)	0.3(75)	0.4(100)
	EER	Btu/h /W	9	8
Electrical Data	Power Supply	V, PH, Hz	220V,3PH,60Hz	220V,3PH,60Hz
	M.C.A	Amps	33	45
	Power Input	W	7660	12700
Indoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	3.88(0.36)	8.83(0.82)
	Row/FPI		4/16	3/14
Indoor fan	Type		Centrifugal	Centrifugal
	Quantity		1	1
	Diameter	inch	10.87	15
	Drive Type		Direct	Belt
	Motor output	Hp	1	3
	Motor rpm	rpm	1100	1430
Compressor	Type		Scroll	Scroll
	Quantity		1	2
	Oil type		SAY56T	SAY56T
Outdoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	10.75(1.00)	16(1.49)
	Row/FPI		2/16	2/16
Outdoor Fan	Type		Axial fan	Axial fan
	Quantity		1	2
	Diameter	inch	23.03	23
	Drive Type		Direct	Direct
	Motor output	Hp	1/3	1/3
	Motor rpm	rpm	1080	1080
Dehumidifying	l/h		6.2	7.5
Drain Connection Size	inch		3/4	3/4
Refrigerant	Refrigerant charge	kg (lbs)	4.2(9.26)	2×3.6(2×7.94)
		Type/Circuit	R22/One refrigerant circuit	R22/Two independent refrigerant circuit
	Refrigerant Control		Capillary tube	Capillary tube
Dimensions(W*D*H)	Outline	inch	53×41.5×31.1	79.0×56.5×44.0
		mm	1345×1055×790	2006×1436×1117
	Package	inch	54.8×43.3×32.1	80.6×57.7×45.4
		mm	1392×1100×815	2046×1466×1152
Weight	Net	kg (lbs)	205(452)	455(1003)
	Gross	kg (lbs)	215(474)	485(1069)
Filter		Washable synthetic		
Stuffing Quantity	20ft\40ft\40ft(Hi)		16/32/48	8/16/16

Nominal Capacity		(Ton)	5	8
Model Name			GK-C05TC1AM	GK-C08TC1AM
Product Code			EJ51000220	EJ51000230
Performance	Net Cooling Capacity	Btu/h	59710	95531
		W	17500	28000
	Air Circulation	CFM (m <sup>3</sup> /h)	2076 (3520)	3245(5500)
	Rated ESP	In.wg (Pa)	0.3(75)	0.4(100)
	EER	Btu/h /W	9	8
Electrical Data	Power Supply	V, PH, Hz	380-415V,50Hz,3Ph	380-415V,50Hz,3Ph
	M.C.A	Amps	19	32
	Power Input	W	7200	11800
Indoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	3.87(0.36)	8.83(0.82)
	Row/FPI		4/16	3/14
Indoor fan	Type		Centrifugal	Centrifugal
	Quantity		1	1
	Diameter	inch	11	15
	Drive Type		Direct	Belt
	Motor output	Hp	1	3
	Motor rpm	rpm	1370	1410
Compressor	Type		Scroll	Scroll
	Quantity		1	2
	Oil type		SUNISO 4GSD	SAY56T
Outdoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	11.3(1.05)	16(1.49)
	Row/FPI		2/16	2/16
Outdoor Fan	Type		Axial fan	Axial fan
	Quantity		1	2
	Diameter	inch	23	23
	Drive Type		Direct	Direct
	Motor output	Hp	1/2	1/3
	Motor rpm	rpm	915	915
Dehumidifying	l/h		6.2	7.5
Drain Connection Size	inch		3/4	3/4
Refrigerant	Refrigerant charge	kg (lbs)	4(8.8)	3.1+2.7(6.83+5.95)
		Type/Circuit	R22/One refrigerant circuit	R22/Two independent refrigerant circuit
	Refrigerant Control		Capillary tube	Capillary tube
Dimensions(W*D*H)	Outline	inch	53×41.5×31.1	78.9×56.5×44.7
		mm	1345×1055×790	2006×1436×1117
	Package	inch	54.8×43.3×32.1	80.5×57.7×45.3
		mm	1392×1100×815	2046×1466×1152
Weight	Net	kg (lbs)	205(452)	455(1003.1)
	Gross	kg (lbs)	215(474)	485(1069.3)
Filter		Washable synthetic		
Stuffing Quantity	20ft\40ft\40ft(Hi)		16/32/48	8/16/16

Nominal Capacity		(Ton)	10	10
Model Name			GK-C10TC1AF	GK-C10TC1AM
Product Code			EJ51000061	EJ51000240
Performance	Net Cooling Capacity	Btu/h	119420	119420
		W	35000	35000
	Air Circulation	CFM (m <sup>3</sup> /h)	4425(7500)	4425(7500)
	Rated ESP	In.wg (Pa)	0.4(100)	0.4(100)
	EER	Btu/h/ W	8	8
Electrical Data	Power Supply	V, PH, Hz	220V,3PH,60Hz	380-415V,50Hz,3Ph
	M.C.A	Amps	41	110
	Power Input	W	15300	15100
Indoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	8.83(0.82)	8.83(0.82)
	Row/FPI		3/14	3/14
Indoor fan	Type		Centrifugal	
	Quantity		1	1
	Diameter	inch	15	15
	Drive Type		Belt	Belt
	Motor output	Hp	3	3
	Motor rpm	rpm	1430	1410
Compressor	Type		Scroll	Scroll
	Quantity		2	2
	Oil type		SAY56T	SUNISO 4GSD
Outdoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	19.91(1.85)	19.91(1.85)
	Row/FPI		2/16	2/16
Outdoor Fan	Type		Axial Fan	
	Quantity		2	2
	Diameter	inch	23	23
	Drive Type		Direct	Direct
	Motor output	Hp	1/3	1/2
	Motor rpm	rpm	1080	915
Dehumidifying	l/h		10	10
Drain Connection Size	inch		3/4	3/4
Refrigerant	Refrigerant charge	kg (lbs)	4+4(8.81+8.81)	4.3+4.3(9.48+9.48)
		Type/Circuit	R22/Two independent refrigerant circuit	
	Refrigerant Control		Capillary tube	
Dimensions(W*D*H)	Outline	inch	79.0×56.5×44.0	79.0×56.5×44.0
		mm	2006×1436×1117	2006×1436×1117
	Package	inch	80.6×57.7×45.4	80.6×57.7×45.4
		mm	2046×1466×1152	2046×1466×1152
Weight	Net	kg (lbs)	470(1036.2)	470(1036.2)
	Gross	kg (lbs)	500(1102.3)	500(1102.3)
Filter		Washable synthetic		
Stuffing Quantity	20ft\40ft\40ft(Hi)		8/16/16	8/16/16

Nominal Capacity		(Ton)	13	15
Model Name			GK-C13TC1AF	GK-C15TC1AF
Product Code			EJ51000300	EJ51000180
Performance	Net Cooling Capacity	Btu/h	150128	180000
		W	44000	50000
	Air Circulation	CFM (m <sup>3</sup> /h)	5900(10000)	5900(10000)
	Rated ESP	In.wg (Pa)	0.8(200)	0.8(200)
	EER	Btu/h /W	8	8
Electrical Data	Power Supply	V, PH, Hz	220V,3PH,60Hz	220V,3PH,60Hz
	M.C.A	Amps	120	104
	Power Input	W	23800	22300
Indoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	13.45(1.25)	13.45(1.25)
	Row/FPI		4/14	4/14
Indoor fan	Type		Centrifugal	Centrifugal
	Quantity		1	1
	Diameter	inch	15	15
	Drive Type		Belt	Belt
	Motor output	Hp	/	/
	Motor rpm	rpm	/	/
Compressor	Type		Scroll	Scroll
	Quantity		2	2
	Oil type		Mineral-160P	SAY56T
Outdoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	26.16(2.43)	26.16(2.43)
	Row/FPI		2/16	2/16
Outdoor Fan	Type		Axial fan	Axial fan
	Quantity		2	2
	Diameter	inch	26	26
	Drive Type		Direct	Direct
	Motor output	Hp	1	1
	Motor rpm	rpm	820	820
Dehumidifying	l/h		15.6	15.6
Drain Connection Size	inch		3/4	3/4
Refrigerant	Refrigerant charge	kg (lbs)	5.3+6.0(11.68+13.23)	5.1+5.5(11.24+12.12)
		Type/Circuit	R22/Two independent refrigerant circuit	
	Refrigerant Control		Thermal Expansion Valve	
Dimensions(W*D*H)	Outline	inch	86.8×63.3×46.8	86.8×63.3×46.8
		mm	2205×1610×1190	2205×1610×1190
	Package	inch	88.3×64.5×48.2	88.3×64.5×48.2
		mm	2245×1640×1225	2245×1640×1225
Weight	Net	kg (lbs)	640(1408)	640(1408)
	Gross	kg (lbs)	679(1493.8)	679(1493.8)
Filter		Washable synthetic		
Stuffing Quantity	20ft\40ft\40ft(Hi)		3/7/14	3/7/14

Nominal Capacity		(Ton)	15	20
Model Name			GK-C15TC1AF	GK-C20TC1AF
Product Code			EJ51000181	EJ51000260
Performance	Net Cooling Capacity	Btu/h	180000	240000
		W	50000	70000
	Air Circulation	CFM (m <sup>3</sup> /h)	5900(10000)	8260(14000)
	Rated ESP	In.wg (Pa)	0.8(200)	0.8(200)
Electrical Data	EER	Btu/h /W	8	8
	Power Supply	V, PH, Hz	220V,3PH,60Hz	220V,3PH,60Hz
	M.C.A	Amps	108	130
	Power Input	W	23800	28000
Indoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	13.45(1.25)	20.5(1.9)
	Row/FPI		4/14	4/14
Indoor fan	Type		Centrifugal	Centrifugal
	Quantity		1	1
	Diameter	inch	15	18
	Drive Type		Direct	Belt
	Motor output	Hp	7	7
	Motor rpm	rpm	1440	1440
Compressor	Type		Scroll	Scroll
	Quantity		2	2
	Oil type		Mineral-160P	Mineral-160P
Outdoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	26.16(2.43)	34.11(3.17)
	Row/FPI		2/16	2/14
Outdoor Fan	Type		Axial fan	Axial fan
	Quantity		2	2
	Diameter	inch	26	30
	Drive Type		Direct	Direct
	Motor output	Hp	1	2.4
	Motor rpm	rpm	820	850
Dehumidifying	l/h		15.6	15.6
Drain Connection Size	inch		3/4	1
Refrigerant	Refrigerant charge	kg (lbs)	5.3+6.0(11.68+13.23)	2×10(2×22.05)
		Type/Circuit	R22 Two independent refrigerant circuit	
	Refrigerant Control		Thermal Expansion Valve	
Dimensions(W*D*H)	Outline	inch	86.8×63.3×46.8	112.9×83.4×54.1
		mm	2205×1610×1190	2870×2120×1375
	Package	inch	88.3×64.5×48.2	116.1×86.5×61.2
		mm	2245×1640×1225	2950×2198×1555
Weight	Net	kg (lbs)	640(1408)	1005(2211)
	Gross	kg (lbs)	679(1493.8)	1170(2574)
Filter		Washable synthetic		
Stuffing Quantity	20ft\40ft\40ft(Hi)		3/7/14	1/4/4

Nominal Capacity		(Ton)	15	20
Model Name			GK-C15TC1AM	GK-C20TC1AM
Product Code			EJ51000250	EJ51000280
Performance	Net Cooling Capacity	Btu/h	180000	240000
		W	50000	70000
	Air Circulation	CFM (m <sup>3</sup> /h)	5900(10000)	8260(14000)
	Rated ESP	In.wg (Pa)	0.8(200)	0.8(200)
	EER	Btu/h /W	8	8
Electrical Data	Power Supply	V,PH ,Hz	380-415V,50Hz,3Ph	380-415V,50Hz,3Ph
	M.C.A	Amps	116	116
	Power Input	W	24500	27000
Indoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	10.55(0.98)	20.5(1.9)
	Row/FPI		4/16	4/14
Indoor fan	Type		Centrifugal	Centrifugal
	Quantity		1	1
	Diameter	inch	15	18
	Drive Type		Belt	Belt
	Motor output	Hp	7	7
	Motor rpm	rpm	1440	1440
Compressor	Type		Scroll	Scroll
	Quantity		2	2
	Oil type		Mineral-160P	Mineral-160P
Outdoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	26.16(2.43)	34.11(3.17)
	Row/FPI		2/16	2/14
Outdoor Fan	Type		Axial fan	Axial fan
	Quantity		2	2
	Diameter	inch	26	30
	Drive Type		Direct	Direct
	Motor output	Hp	3/4	2.4
	Motor rpm	rpm	940	710
Dehumidifying	l/h		15.6	15.6
Drain Connection Size	inch		3/4	1
Refrigerant	Refrigerant charge	kg (lbs)	4.5+5.4(9.92+11.90)	8+8(17.64+17.64)
		Type/Circuit	R22 Two independent refrigerant circuit	
	Refrigerant Control		Thermal Expansion Valve	
Dimensions(W*D*H)	Outline	inch	86.8×63.3×46.8	112.9×83.4×54.1
		mm	2205×1610×1190	2870×2120×1375
	Package	inch	88.3×64.5×48.2	116.1×86.5×61.2
		mm	2245×1640×1225	2950×2198×1555
Weight	Net	kg (lbs)	640(1408)	1005(2211)
	Gross	kg (lbs)	679(1493.8)	1170(2574)
Filter		Washable synthetic		
Stuffing Quantity	20ft\40ft\40ft(Hi)		3/7/14	1/4/4

Nominal Capacity		(Ton)	25	25	30
Model Name			GK-C25TC1AF	GK-C25TC1AM	GK-C30TC1AM
Product Code			EJ51000270	EJ51000290	EJ51000450
Performance	Net Cooling Capacity	Btu/h	300000	300000	360000
		W	87500	85000	95000
	Air Circulation	CFM ( m <sup>3</sup> /h )	10324(17500)	8534(14500)	9144(15500)
	Rated ESP	In.wg (Pa)	1(250)	1(250)	(1)250
EER	Btu/h/ W	8	8	8	
Electrical Data	Power Supply	V, PH, Hz	220V,3PH,60Hz	380-415V,50Hz,3Ph	380V-50Hz-3Ph
	M.C.A	Amps	152	116	118
	Power Input	W	44000	33500	43000
Indoor Coil	Type		Aluminum fin-copper tube		
	Face Area	sq.ft (m <sup>2</sup> )	20.5(1.9)	20.5(1.9)	20.5(1.9)
	Row/FPI		4/14	4/14	4/14
Indoor fan	Type		Centrifugal fan		
	Quantity		1	1	1
	Diameter	inch	18	18	18
	Drive Type		Belt	Belt	Belt
	Motor output	Hp	/	7	10
	Motor rpm	rpm	/	1440	1440
Compressor	Type		Scroll	Scroll	Scroll
	Quantity		2	2	2
	Oil type		Mineral-160P	POE-160SZ	POE-320SZ/Mineral-160P
Outdoor Coil	Type		Aluminum fin-copper tube		
	Face Area	sq.ft (m <sup>2</sup> )	34.11(3.17)	34.11(3.17)	34.11(3.17)
	Row/FPI		2/14	2/14	2/14
Outdoor Fan	Type		Axial Fan	Axial Fan	Axial Fan
	Quantity		2	2	2
	Diameter	inch	30	30	30
	Drive Type		Direct	Direct	Direct
	Motor output	Hp	2.4	2.4	2.4
	Motor rpm	rpm	850	710	710
Dehumidifying	l/h		26	18.5	30
Drain Connection Size	inch		1	1	1
Refrigerant	Refrigerant charge	kg (lbs)	12+11.5(26.46+25.35)	10+11(22.05+24.25)	11+10(24+22)
		Type/Circuit	R22 Two independent refrigerant circuit		
	Refrigerant Control		Thermal Expansion Valve		
Dimensions(W*D*H)	Outline	inch	112.9×83.4×54.1	112.9×83.4×54.1	112.9×83.4×54.1
		mm	2870×2120×1375	2870×2120×1375	2870×2120×1375
	Package	inch	116.1×86.5×61.2	116.1×86.5×61.2	116.1×86.5×61.2
		mm	2950×2198×1555	2950×2198×1555	2950×2198×1555
Weight	Net	kg (lbs)	1049(2307.8)	1049(2307.8)	1115(2453)
	Gross	kg (lbs)	1214(2670.8)	1214(2670.8)	1280(2816)
Filter		Washable synthetic			
Stuffing Quantity	20ft\40ft\40ft(Hi)		1/4/4	1/4/4	1/4/4

Nominal Capacity		(Ton)	5	8	10
Model Name			GK-H05TC1AM	GK-H08TC1AM	GK-H10TC1AM
Product Code			EJ51000320	EJ51000311	EJ51000331
Performance	Net Cooling/ Heating Capacity	Btu/h	54000/60000	95600/102400	112569/119420
		W	15500/17500	28000/30000	33000/35000
	Air Circulation	CFM ( m <sup>3</sup> /h )	1413(2400)	3237(5500)	3649(6200)
	Rated ESP	In.wg (Pa)	(0.2)50	(0.4)100	(0.4)100
	EER	Btu/h/ W	8	8	8
Electrical Data	Power Supply	V ,Hz,Ph	380-415V-50Hz-3Ph		
	M.C.A	Amps	20	40	40
	Power Input	W	6500	11500	13600
Indoor Coil	Type		Aluminum fin-copper tube		
	Face Area	sq.ft (m <sup>2</sup> )	3.87(0.36)	8.83(0.82)	8.83(0.82)
	Row/FPI		4/16	3/14	3/14
Indoor fan	Type		Centrifugal fan		
	Quantity		1	1	1
	Diameter	inch	11	15	15
	Drive Type		Direct	Belt	Belt
	Motor output	Hp	0.45	3	3
	Motor rpm	rpm	910	1410	1410
Compressor	Type		Scroll	Scroll	Scroll
	Quantity		1	2	2
	Oil type		SAY56T	SAY56T	SAY56T
Outdoor Coil	Type		Aluminum fin-copper tube		
	Face Area	sq.ft (m <sup>2</sup> )	11.3(1.05)	19.91(1.85)	19.91(1.85)
	Row/FPI		2/16	2/16	3/16
Outdoor Fan	Type		Axial Fan		
	Quantity		1	2	2
	Diameter	inch	23	23	23
	Drive Type		Direct		
	Motor output	Hp	0.5	0.5	0.5
	Motor rpm	rpm	915	915	915
Dehumidifying	l/h		6.2	7.5	10
Drain Connection Size	inch		3/4	3/4	3/4
Refrigerant	Refrigerant charge	kg (lbs)	4.8(10.6)	4+4.2(8.8+9.3)	5+5(11.0+11.0)
		Type/Circuit	R22 Two independent refrigerant circuit		
	Refrigerant Control		Thermal Expansion Valve		
Dimensions(W*D*H)	Outline	inch	52.9×41.5×31.1	78.9×56.5×43.9	78.9×56.5×43.9
		mm	1345×1055×790	2006×1436×1117	2006×1436×1117
	Package	inch	54.8×43.3×32.1	80.6×57.7×45.4	80.6×57.7×45.4
		mm	1392×1100×815	2046×1466×1152	2046×1466×1152
Weight	Net	kg (lbs)	220(485)	480(1058)	515(1136)
	Gross	kg (lbs)	230(507)	510(1124)	545(1202)
Filter		Washable synthetic			
Stuffing Quantity	20ft\40ft\40ft(Hi)		16/32/48	8/16/16	8/16/16



Nominal Capacity		(Ton)	15	20
Model Name			GK-H15TC1AM	GK-H20TC1AM
Product Code			EJ51000340	EJ51000350
Performance	Net Cooling/ Heating Capacity	Btu/h	170700/170700	240000/240000
		W	50000/50000	70000/70000
	Air Circulation	CFM ( m <sup>3</sup> /h )	5300(9000)	7080(12000)
	Rated ESP	In.wg (Pa)	(0.8)200	(0.8)200
	EER	Btu/h/ W	8	8
Electrical Data	Power Supply	V ,Hz,Ph	380-415V-50Hz-3Ph	
	M.C.A	Amps	80	80
	Power Input	W	25000	28000
Indoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	10.55(0.98)	20.50(1.9)
	Row/FPI		4/14	4/14
Indoor fan	Type		Centrifugal fan	
	Quantity		1	1
	Diameter	inch	15	18
	Drive Type		Belt	
	Motor output	Hp	7.5	7.5
	Motor rpm	rpm	1440	1440
Compressor	Type		Scroll	
	Quantity		2	2
	Oil type		Mineral-160P	Mineral-160P
Outdoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	24.57(2.283)	34.11(3.17)
	Row/FPI		3/16	3/16
Outdoor Fan	Type		Axial Fan	
	Quantity		2	2
	Diameter	inch	26	30
	Drive Type		Direct	
	Motor output	Hp	1	2.4
	Motor rpm	rpm	920	710
Dehumidifying	l/h		15.6	15.6
Drain Connection Size	inch		3/4	1
Refrigerant	Refrigerant charge	kg (lbs)	6.6+6.6(14.55+14.55)	10+10(22.05+22.05)
		Type/Circuit	R22 Two independent refrigerant circuit	
	Refrigerant Control		Thermal Expansion Valve	
Dimensions(W*D*H)	Outline	inch	86.8×63.4×46.9	112.9×83.5×54.1
		mm	2205×1610×1190	2870×2120×1375
	Package	inch	80.6×57.7×45.4	116.1×86.5×61.2
		mm	2245×1640×1225	2950×2198×1555
Weight	Net	kg (lbs)	690(1521)	1060(2336.8)
	Gross	kg (lbs)	729(1607)	1225(2700.6)
Filter		Washable synthetic		
Stuffing Quantity	20ft\40ft\40ft(Hi)		3/7/14	1/4/4

Nominal Capacity		(Ton)	25	30
Model Name			GK-H25TH1AM	GK-H30TH1AM
Product Code			EJ51000361	EJ51000370
Performance	Net Cooling/ Heating Capacity	Btu/h	290000/290000	330000/340000
		W	85000/85000	97000/100000
	Air Circulation	CFM ( m <sup>3</sup> /h )	8239(14000)	10620(18000)
	Rated ESP	In.wg (Pa)	(1)250	(1)250
	EER	Btu/h/ W	8	8
Electrical Data	Power Supply	V ,Hz, Ph	380-415V-50Hz-3Ph	
	M.C.A	Amps	100	125
	Power Input	W	34000	42000
Indoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	24.07(2.236)	27.63(2.567)
	Row/FPI		4/14	4/14
Indoor fan	Type		Centrifugal fan	
	Quantity		1	1
	Diameter	inch	17.6	17.6
	Drive Type		Belt	
	Motor output	Hp	10	15
	Motor rpm	rpm	1440	1460
Compressor	Type		Scroll	
	Quantity		2	2
	Oil type		Mineral-160P	POE-320SZ/Mineral-160P
Outdoor Coil	Type		Aluminum fin-copper tube	
	Face Area	sq.ft (m <sup>2</sup> )	40.8(3.79)	46.7(4.34)
	Row/FPI		3/16	3/16
Outdoor Fan	Type		Axial Fan	
	Quantity		2	2
	Diameter	inch	31.69	31.69
	Drive Type		Direct	
	Motor output	Hp	3	3
	Motor rpm	rpm	940	940
Dehumidifying	l/h		23.1	30
Drain Connection Size	inch		1	1
Refrigerant	Refrigerant charge	kg (lbs)	15.5+14.5(34.17+31.97)	16+17(35.27+37.48)
		Type/Circuit	R22 Two independent refrigerant circuit	
	Refrigerant Control		Thermal Expansion Valve	
Dimensions(W*D*H)	Outline	inch	112.9×83.5×69.9	112.9×83.5×89.9
		mm	2870×2120×1775	2870×2120×2283
	Package	inch	116.1×86.5×77.2	116.1×86.5×97.2
		mm	2950×2198×1962	2950×2198×2470
Weight	Net	kg (lbs)	1312(2893.0)	1540(3395.7)
	Gross	kg (lbs)	1448(3192.8)	1620(3572.1)
Filter		Washable synthetic		
Stuffing Quantity	20ft\40ft\40ft(Hi)		1/1/4	0/0/4

Note:

- a. The cooling capacity stated above is measured under following conditions:  
Indoor Conditions: 27°C DB/19°C WB (81 °F DB/67 °F WB);  
Outdoor Conditions: 35°C DB/24°C WB (95 °F DB/76 °F WB).
- b. The air volume is measured at the relevant standard external static pressure.
- c. M.C.A: Minimum Circuit Ampacity.
- d. The technical parameters are changed along with the products improvement, please refer to the nameplate of the unit for actual data.

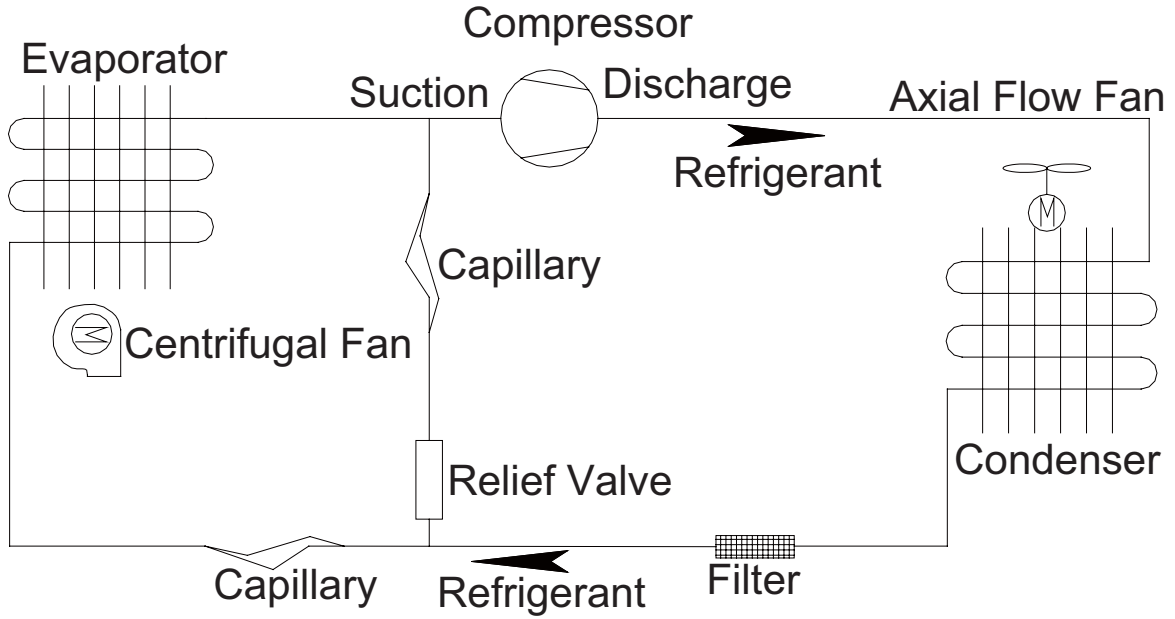
#### 4.2 ELECTRICAL DATA

Model	Compressor				Fan Motor		Max. Fuse Size	Min Disconnect Size
					Condenser Fan Motors	Supply Blower Motor		
	Power Supply	Qty.	RLA (each)	LRA (each)	FLA (each)	FLA (each)		
	(Ph,V,Hz)	-	(Amps)	(Amps)	(Amps)	(Amps)		
GK-C03TC1AD	1Ph,220V,60Hz	1	18.2	136	2.1	1.65	40	32
GK-C03TC1AD	1Ph,220V,60Hz	1	19.5	150	2.1	1.65	40	32
GK-C04TC1AD	1Ph,220V,60Hz	1	26.3	151	2.1	2.6	60	37.575
GK-C04TC1AF	3Ph,220V,60Hz	1	14.1	115	2.1	3.4	32	26
GK-C05TC1AF	3Ph,220V,60Hz	1	17.5	134	2.1	5.1	32	31
GK-C05TC1AF	3Ph,220V,60Hz	1	17.5	134	2.1	3.4	32	31
GK-C08TC1AF	3Ph,220V,60Hz	2	16.6	134	2.1	8.64	63	55
GK-C10TC1AF	3Ph,220V,60Hz	2	20.5	134	2.1	8.64	63	61
GK-C13TC1AF	3Ph,220V,60Hz	2	27.1	195	3.8	20.38	100	88
GK-C15TC1AF (Danfoss)	3Ph,220V,60Hz	2	27.1	195	3.8	20.38	100	88
GK-C15TC1AF (Copeland)	3Ph,220V,60Hz	2	32.1	195	3.8	20.38	100	88
GK-C20TC1AF	3Ph,220V,60Hz	2	36.4	267	8.4	20.3	125	120
GK-C25TC1AF	3Ph,220V,60Hz	2	45.7	255	8.4	26.95	200	190
GK-C03TC1AK	1PH,220V,50Hz	1	17	130	1.9	3.7	32	30
GK-C04TC1AM	3Ph,380V~415V,50Hz	1	8.06	73	1.9	3.7	16	13
GK-C05TC1AM	3Ph,380V~415V,50Hz	2	9.3	69	1.9	4.6	20	18
GK-C08TC1AM	3Ph,380V~415V,50Hz	2	8.9	73	1.9	5.16	40	33
GK-C10TC1AM	3Ph,380V~415V,50Hz	2	9.3	69	1.9	5.16	40	35
GK-C10TC1AM	3Ph,380V~415V,50Hz	2	9.3	69	1.9	5.16	100	100
GK-C15TC1AM	3Ph,380V~415V,50Hz	2	17.9	142	1.6	11.8	63	62
GK-C15TC1AM	3Ph,380V~415V,50Hz	2	17.9	142	1.6	11.8	110	110
GK-C20TC1AM	3Ph,380V~415V,50Hz	2	19.3	147	5	11.8	100	85
GK-C20TC1AM	3Ph,380V~415V,50Hz	2	19.3	147	5	11.8	120	120
GK-C25TC1AM	3Ph,380V~415V,50Hz	2	35	149	5	11.8	130	100.55
GK-C25TC1AM	3Ph,380V~415V,50Hz	2	35	149	5	11.8	120	120
GK-C30TC1AM	3Ph,380VV,50Hz	2	35.7	215	5	15.6	125	103
GK-H05TC1AM	3Ph,380V~415V,50Hz	1	9.4	73	1.9	3.26	20	18.5
GK-H08TC1AM	3Ph,380V~415V,50Hz	2	8.9	73	1.9	5.16	40	32
GK-H10TC1AM	3Ph,380V~415V,50Hz	2	9.4	73	1.9	5.16	40	33
GK-H15TC1AM	3Ph,380V~415V,50Hz	2	17.9	142	2.1	11.2	63	57
GK-H20TC1AM	3Ph,380V~415V,50Hz	2	19.3	147	5	11.2	80	69
GK-H25TH1AM	3Ph,380V~415V,50Hz	2	35	149	5.3	15.6	100	82
GK-H30TH1AM	3Ph,380V~415V,50Hz	2	35.7	215	5.3	22.3	125	107

## 5 PIPING DIAGRAM

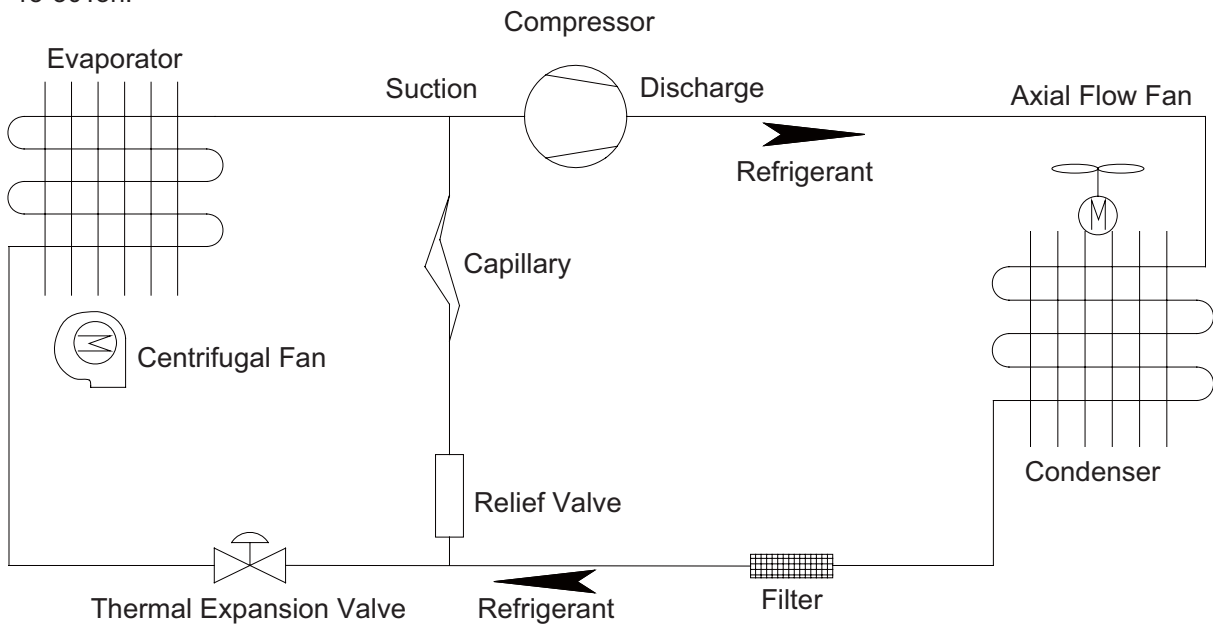
### 5.1 COOLING ONLY

3-10Ton:



(Refrigerant flowing direction is shown as the arrow)

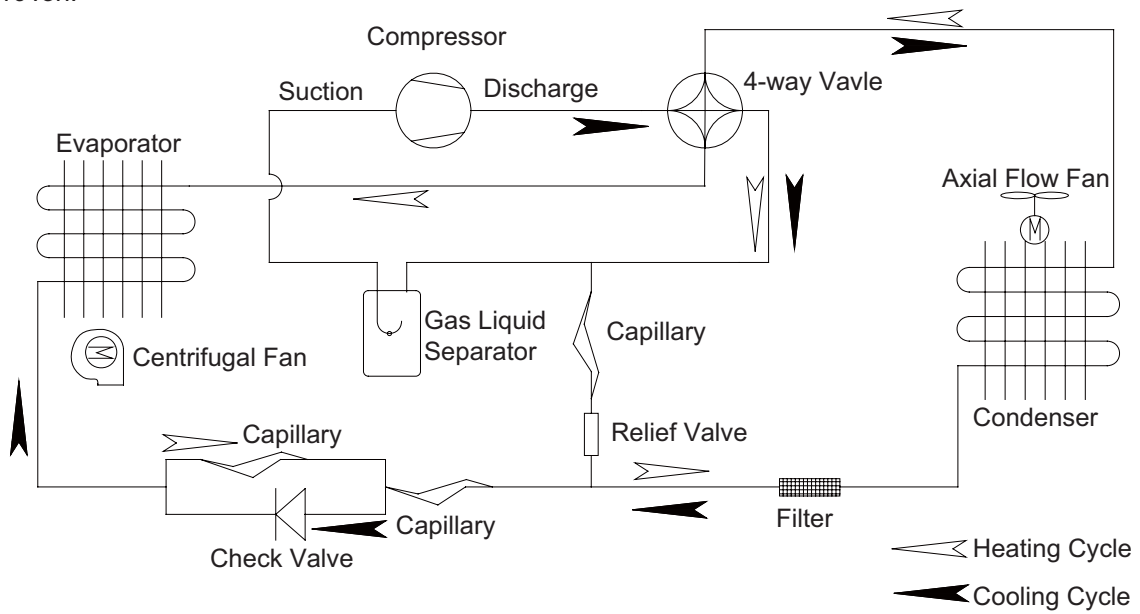
15-30Ton:



(Refrigerant flowing direction is shown as the arrow)

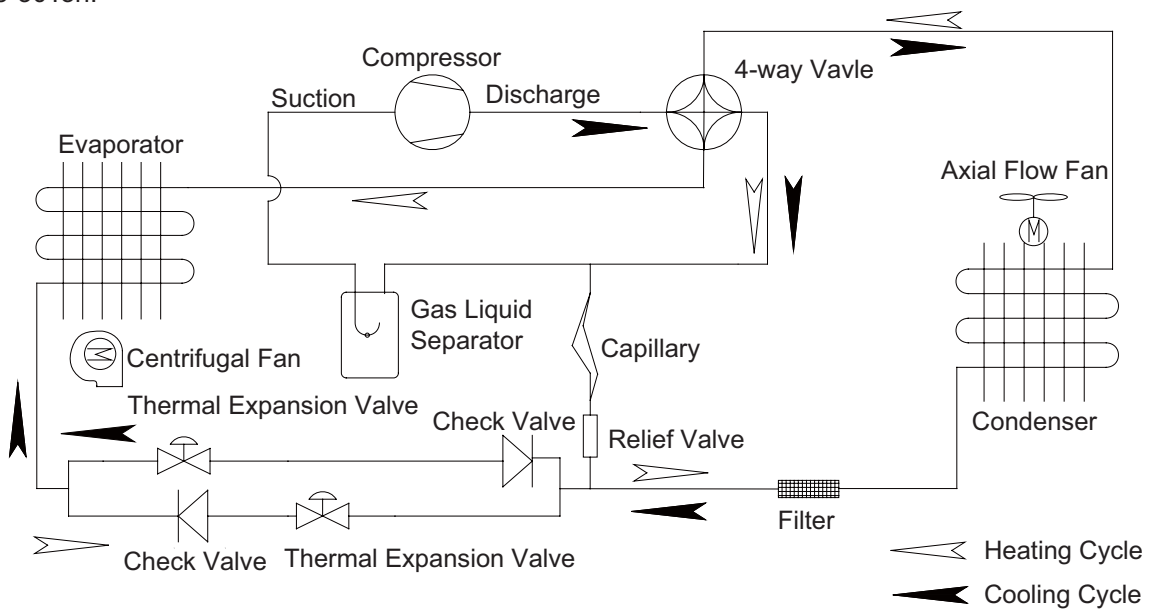
## 5.2 HEAT PUMP

5-10Ton:



(Refrigerant flowing direction is shown as the arrow)

15-30Ton:



(Refrigerant flowing direction is shown as the arrow)

# INSTALLATION

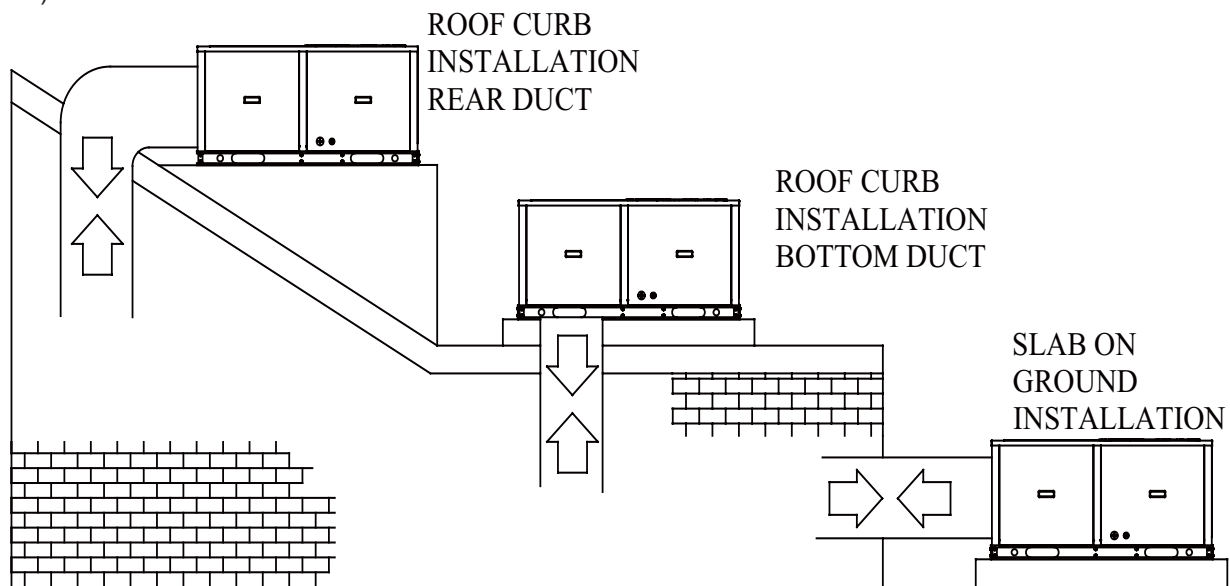
## INSTALLATION

### 1 UNITS INSTALL

#### 1.1 INSTALLATION POSITIONS

To ensure the unit in proper function, selection of installation location must be in accordance with following principles:

- 1) Ensure that the strength of installation location is adequate at that point to support the weight of unit. See the unit specification sheet for unit weight. This is extremely important and is the user's responsibility.
- 2) Installation location shall be able to insulate noise and prevent vibration. Ensure that the wind and noise from the unit will not affect your neighbors.
- 3) The installation site must have good ventilation, so that the unit can take in and exhaust enough air and the air discharged by outdoor fan will not return. Sufficient space for repair shall be provided around the unit.
- 4) Avoid direct sunshine over the unit. It is better to set up a sun shield as the protection.
- 5) Place of installation must be able to drain the rainwater and defrosting water.
- 6) Place of installation must ensure the unit will not be subject to the influence of rubbish or oil fog.
- 7) The installation site must be at a place where the air exhaust outlet does not face strong wind.
- 8) Unit must be fixed on stable and solid surface of floor.



The unit can be installed outside to save valuable indoor space or where no ceiling space is available. According to principles above, you can choose the following installation positions:

- 1) Install on the ground  
The unit can be installed on the ground with flat pedestal.
- 2) Install on the roof  
The unit can be installed on the flat roof or side by the roof curb.

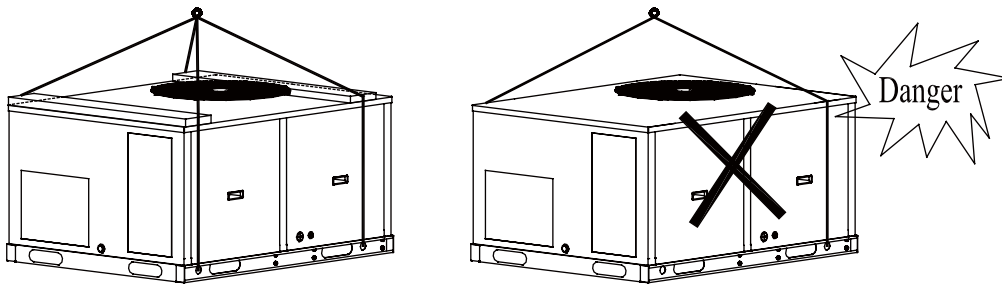
#### 1.2 MATTERS NEED ATTENTION

##### 1.2.1 PRE-INSTALLATION INSTRUCTION

Upon receiving the product, check any damage from transportation. Shipping damage is the responsibility of the carrier. Verify the model number, specifications and accessories are correct prior to installation. The distributor or manufacturer will not accept claims from dealers for transportation damage or installation of incorrectly shipped units.

If the checking is passed, protecting measure should be adopted. Do not open the packing too early, in order to avoid damage.

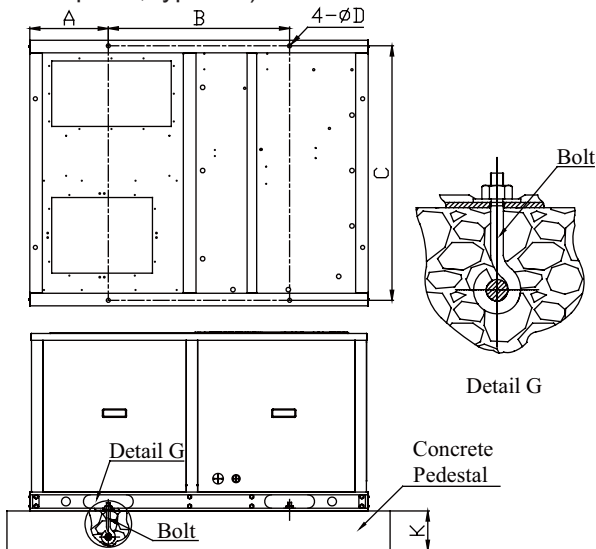
**1.2.2 LIFTING METHOD**



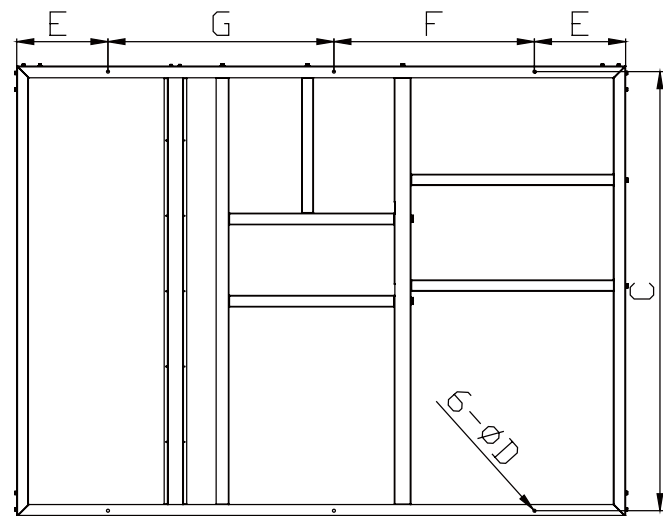
- 1) When removing the unit, two ropes are needed to hang the unit along the four ways.
- 2) In order to avoid the extrusion, between the ropes should be add something to protect the unit (e.g. batten).
- 3) Please use M12 to tight the support funds.

**1.2.3 INSTALLATION PEDESTAL**

The unit must be laid on horizontal pedestal that is rigid. It is advised that pedestal is made of concrete. The high dimension of the pedestal must larger than the dimension that needed for drainpipe installation. And the unit must be fixed on the pedestal with bolt. The location of pedestal must be able to support the weight of the unit. If not, the unit may be overturning, declining or falling off in an extreme circumstance(just like earthquake, typhoon).



Dimension (mm)	3-5 TON	8-10 TON	13-15 TON
A	312	215	152
B	720	1570	1900
C	1010	1394	1564
D	16	14	14



Dimension (mm)	20-30 TON
C	2068
D	14
E	430
F	945
G	1065

**NOTE:**

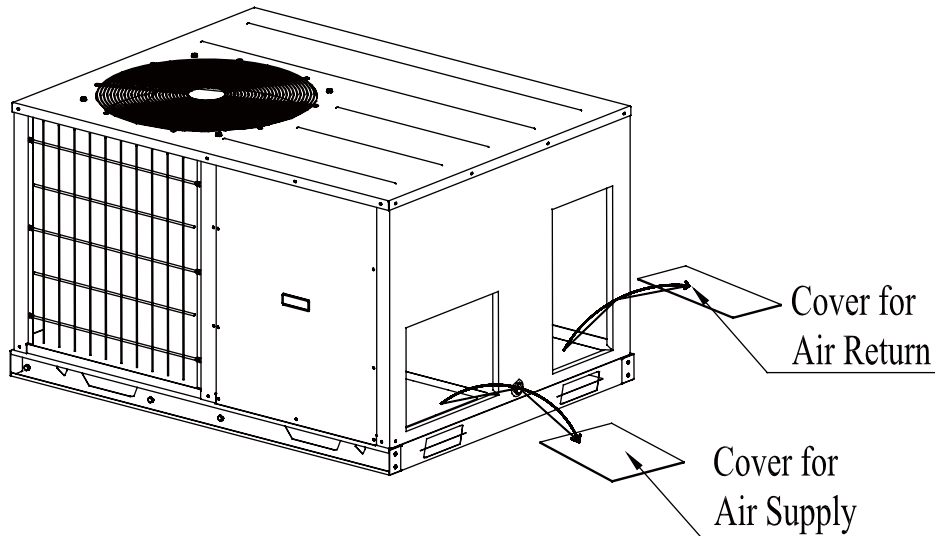
- 1) The diagram may be different from actual model. The diagram is for pedestal made of concrete.
- 2) The high dimension K must be enough to install drainpipe (Refer to DRAIN PIPING WORK:  $K > L1 + L2$ )



### 1.2.4 DUCTWORK

1) The Bottom duct openings are covered when they leave the factory ready to be used for a side supply / side return application.

2) If a bottom supply / bottom return application is applied, you can simply remove the two covers from the bottom of the unit and place them in the side supply / side return duct openings. What is stated above is only applicable to the unit with the cooling capacity of 15 Ton or lower. As for all other units, the side supply air outlet is factory defaulted. Meanwhile, the bottom supply air outlet is reserved; however, the seal plate should be prepared by the user.



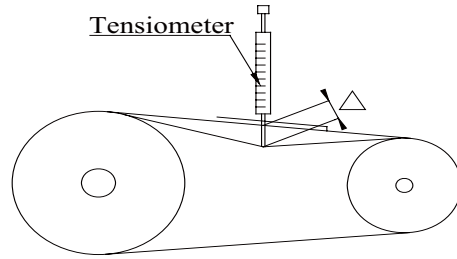
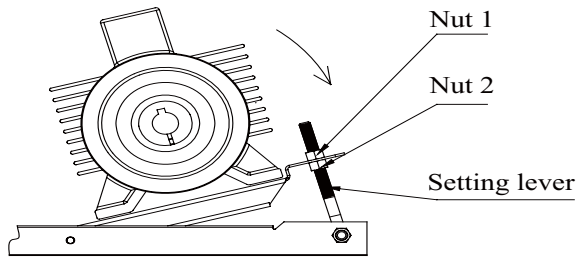
#### **CAUTION:**

- The design and installation of air ducts must be in conformity with the relevant local engineering criteria.
- Ductwork is to be constructed in a manner that limits restrictions and maintains suitable air velocity.
- The air supply duct, the air intake duct must be covered with a layer of thermal insulation, so as to avoid thermal leakage and condensation.
- The air supply ducts and the air intake ducts shall be fixed by the prefabricated boards of the ceiling by using iron supports. The joints of the ducts must be sealed by glue so as to avoid leakage.
- The edge of the air intake duct must be at least 150mm away from the wall.
- Silencing and shock absorption shall be considered in the design and installation of the air ducts. Additionally, the noise source must be far away from where people stay. The air intake shall not be located above the place where users stay (offices and rest places, etc.).
- Do not terminate the air return duct in an area that can introduce toxic or objectionable fumes/odors into the ductwork.
- Each installation must include a return air filter. This filtering may be performed at the unit or externally such as a return air filter grille.
- Building condition and maintenance convenience should be taken into consideration when selecting the installation method.

### 1.2.5 ADJUST THE TIGHTNESS OF THE BELT (ONLY 5 TON ABOVE)

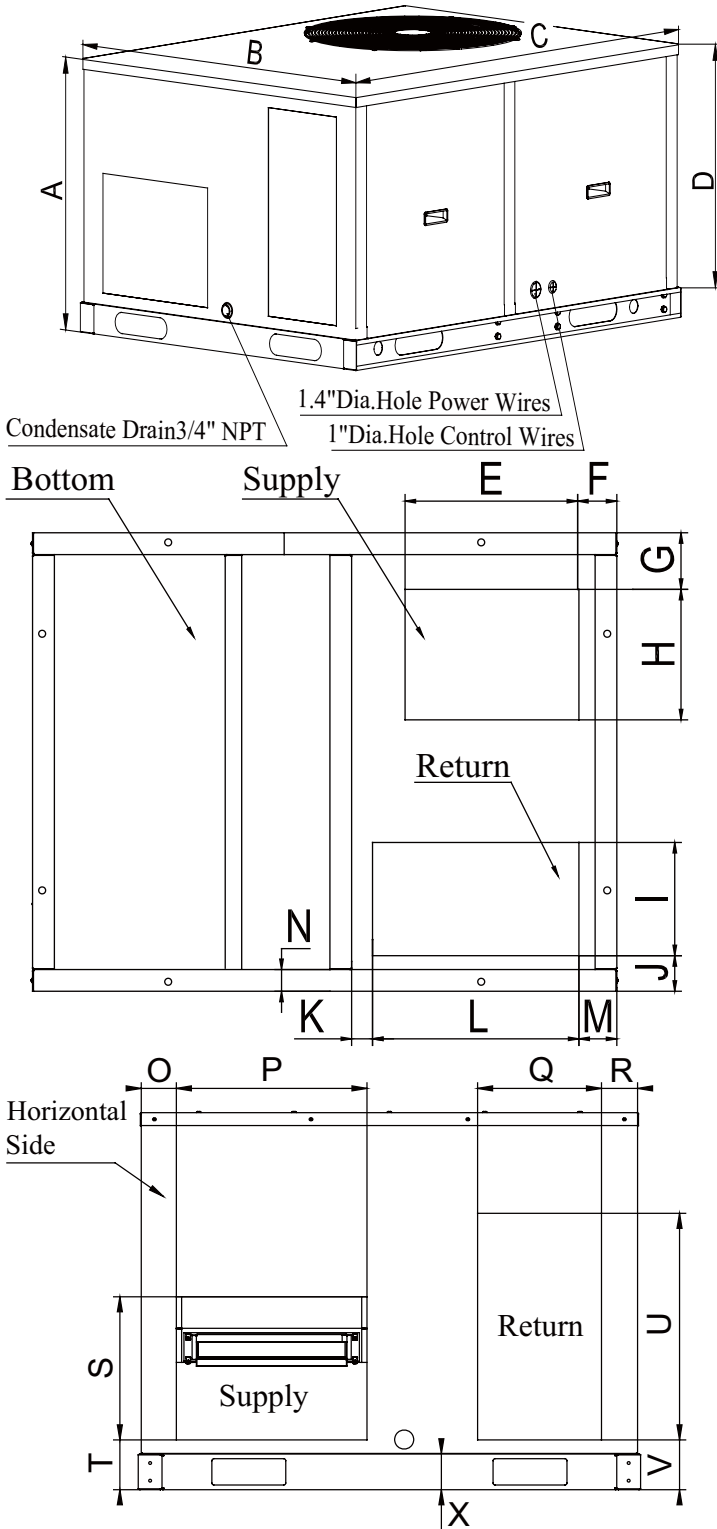
- The rotation of the fan is achieved by the transmission of the belt. The velocity and stability of the fan is associated with the tightness of the belt and the tightness should be adjusted after a period of time.
- For a new belt, the tightness should be adjusted for at least twice within 24 hours. After one week running, the tightness of the belt should be adjusted again, we should routinely check it every 1-2 months; also ensure the test results complying with the following table.
- The adjustment of the tightness of the belt is shown in the following figure. Loosen screws fixing motor on the base, move motor along the direction of arrow as shown in the picture, then fix the screw again.
- The tightness level of belt is tested by densitometer as shown in the following figure, when  $\Delta$  reaches the deviation length, read the value on the meter, the value should be in the category specified in the following table .

Section area of the belt	Diameter of the small wheel (mm)	Diameter of the big wheel (mm)	The total length of the belt (mm)	Deviation Length (mm)	Tension(N)	
					Min.	Max.
SPA	80	160	1250	6.93	18	26
	100	160	1282	6.96	18	26



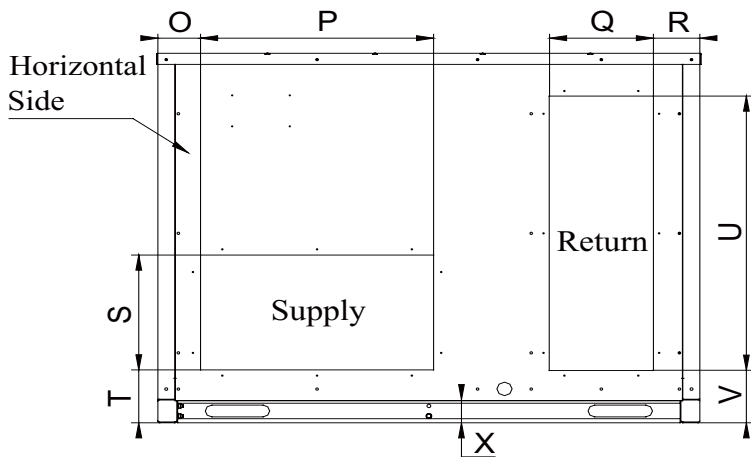
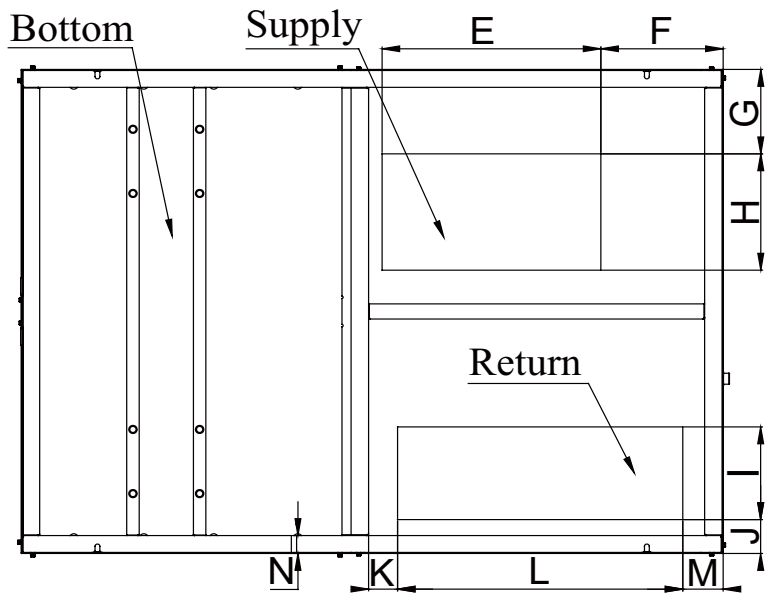
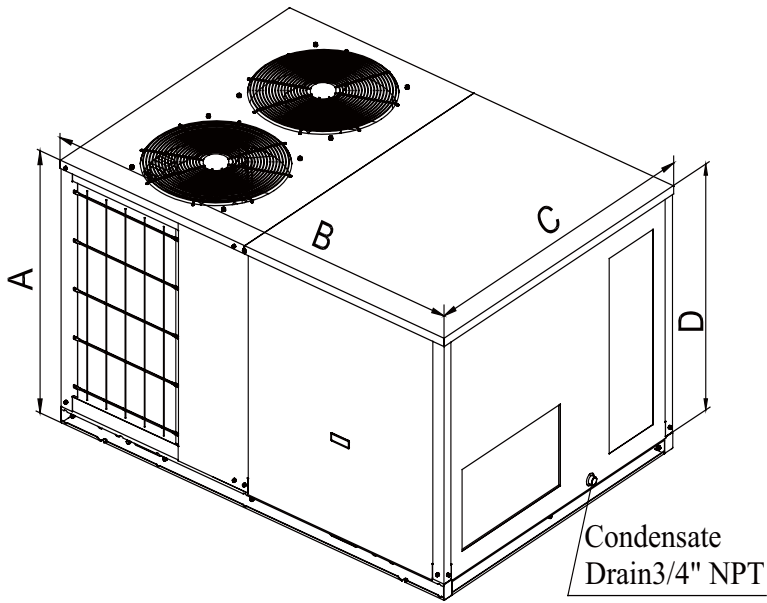
**1.3 DIMENSION**

**1.3.1 DIMENSION OF 3~5 TON UNITS**



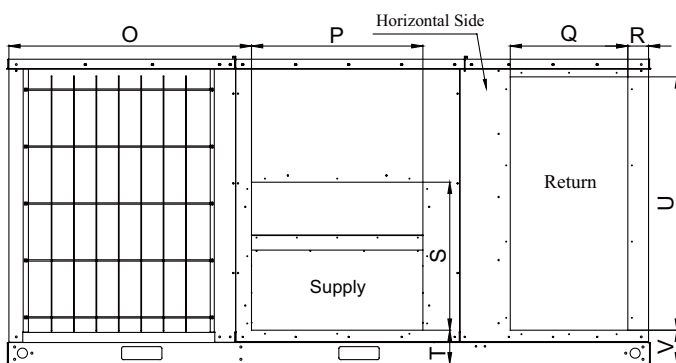
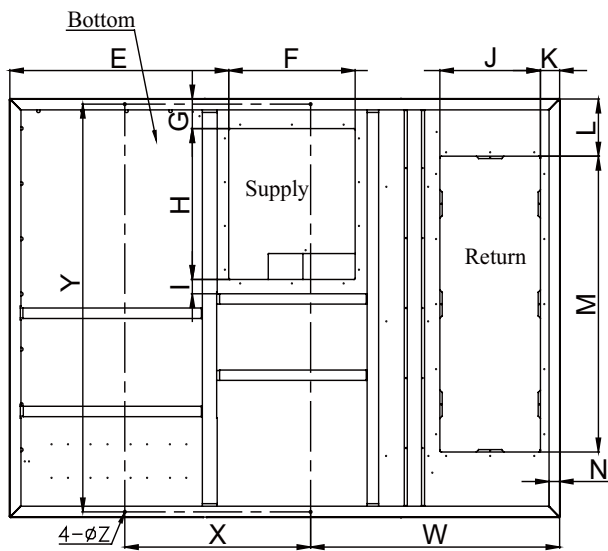
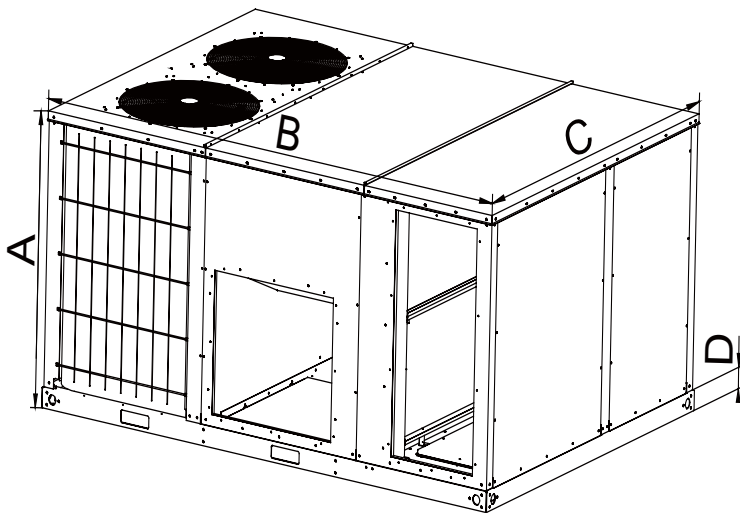
DIMENSION (mm)	3ton,4ton	5ton
A	640	790
B	1055	1055
C	1345	1345
D	565	715
E	400	400
F	87	87
G	130	130
H	300	300
I	260	260
J	82	82
K	48	48
L	475	475
M	87	87
N	50	50
O	73	73
P	400	400
Q	260	260
R	75	75
S	300	300
T	105	105
U	475	475
V	104	104
X	75	75

1.3.2 DIMENSION OF 8~15TON UNITS



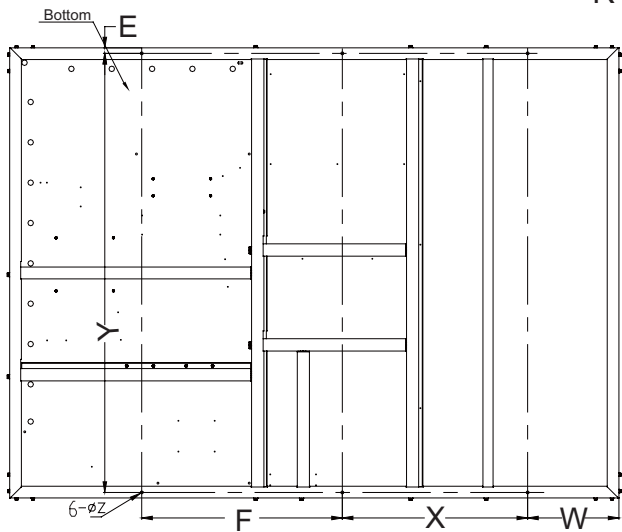
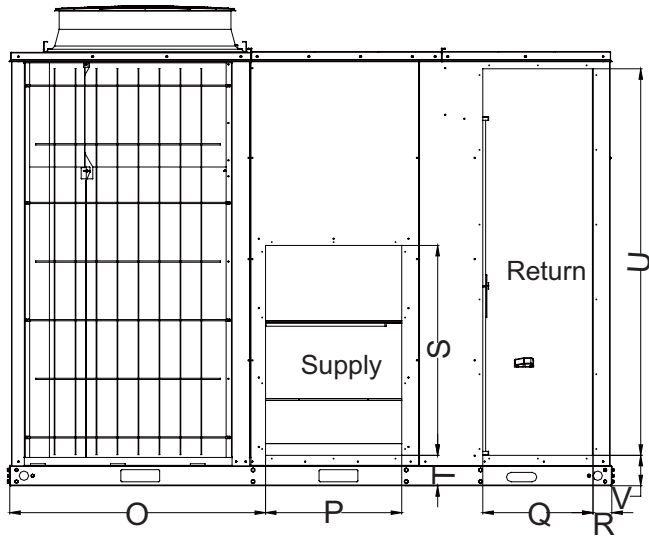
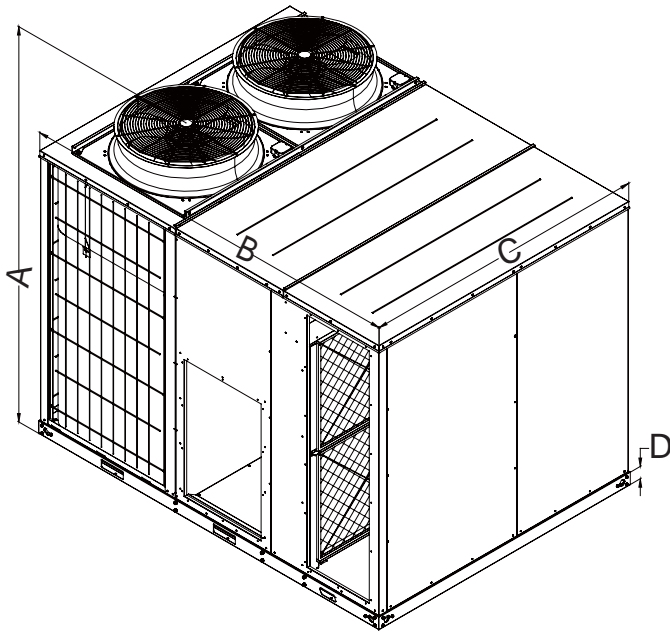
DIMENSION (mm)	8ton,10ton	13Ton,15Ton
A	1100	1190
B	2000	2205
C	1435	1610
D	1030	88
E	625	443
F	346	117
G	248	230
H	345	430
I	275	360
J	98	127
K	83	150
L	815	900
M	113	87
N	50	50
O	112	208
P	615	460
Q	275	360
R	122	120
S	341	443
T	157	165
U	815	900
V	155	170
X	70	1900

1.3.3 DIMENSION OF 20~30TON UNITS



DIMENSION (mm)	20Ton,25 Ton,30Ton
A	1357
B	2870
C	2120
D	95
E	1143
F	660
G	150
H	765
I	73
J	525
K	100
L	290
M	1500
N	55
O	1083
P	765
Q	525
R	92
S	660
T	150
U	1130
V	150
W	1300
X	970
Y	2068
Z	14

DIMENSION OF 25/30TON (Heat Pump) UNITS

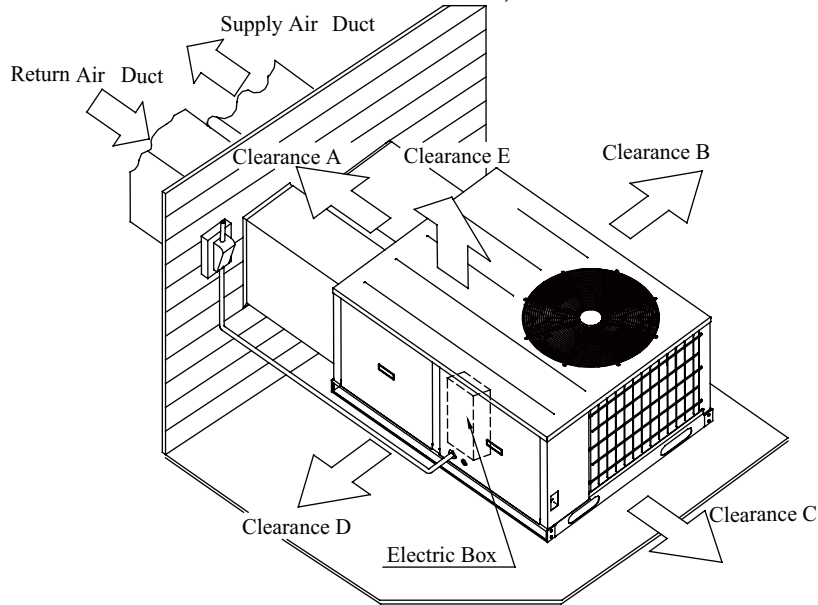


NOTE: Above diagrams may be different from actual model.

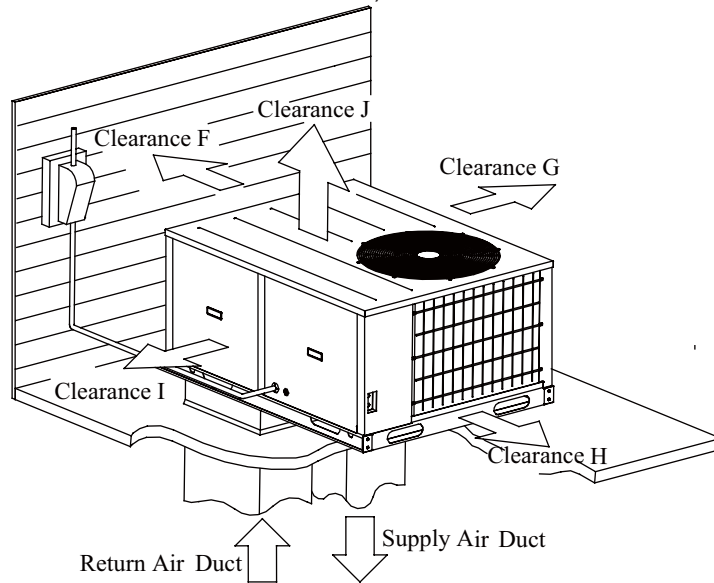
DIMENSION (mm)	25Ton	30Ton
A	1775	2283
B	2870	2870
C	2120	2120
D	95	95
E	26	26
F	945	945
O	1219	1219
P	650	650
Q	525	525
R	90	90
S	800	1000
T	145	145
U	1334	1842
W	430	430
V	145	145
X	873	873
Y	2068	2068
Z	14	14

**1.4 INSTALLATION CLEARANCE DATA**

1) 3~5 TON  
MODEL-1:(TYPICAL SLAB ON GROUND INSTALLATION)



MODEL-2:(TYPICAL ROOF CURB INSTALLATION)

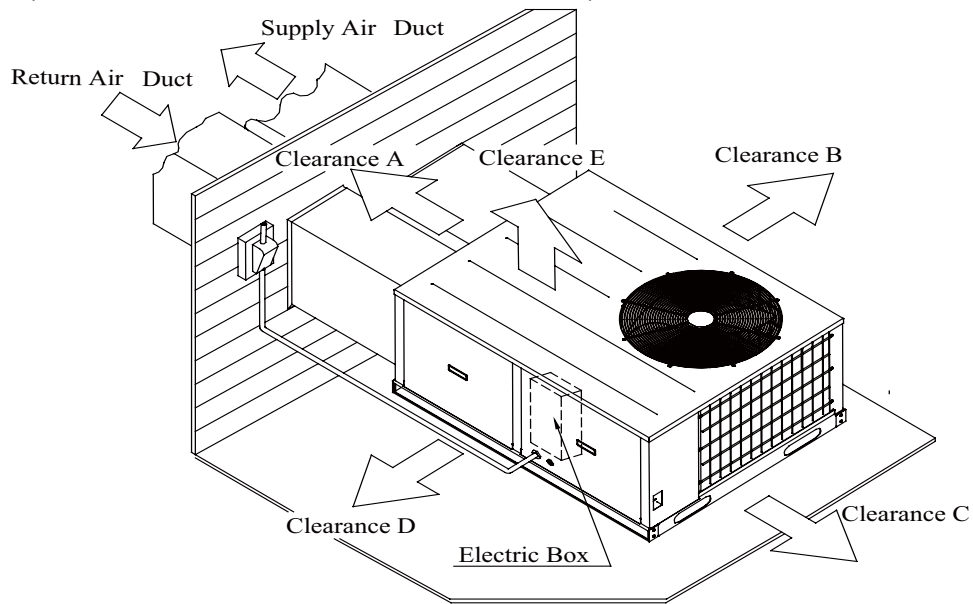


**NOTE:** Above diagrams may be different from actual model.

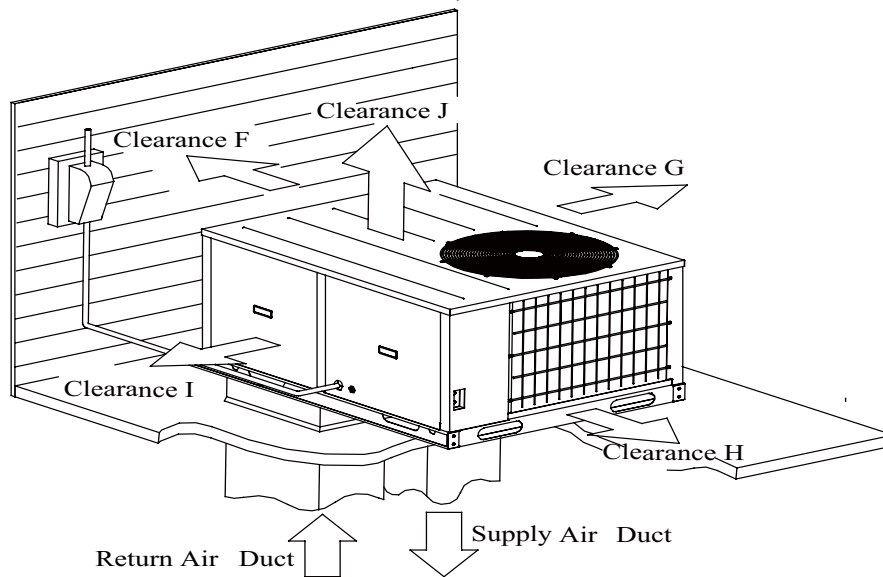
3~5Tons Side Supply/Return Installation Clearances		
DIMENSION (Minimum)	mm	inch
A	600	24
B	860	34
C	860	34
D	1100	43
E	1100	43

3~5Tons Bottom Supply/Return Installation Clearances		
DIMENSION (Minimum)	mm	inch
F	350	14
G	860	34
H	860	34
I	1100	43
J	1100	43

2) 8~15 TON  
MODEL-1:(TYPICAL SLAB ON GROUND INSTALLATION)



MODEL-2:(TYPICAL ROOF CURB INSTALLATION)

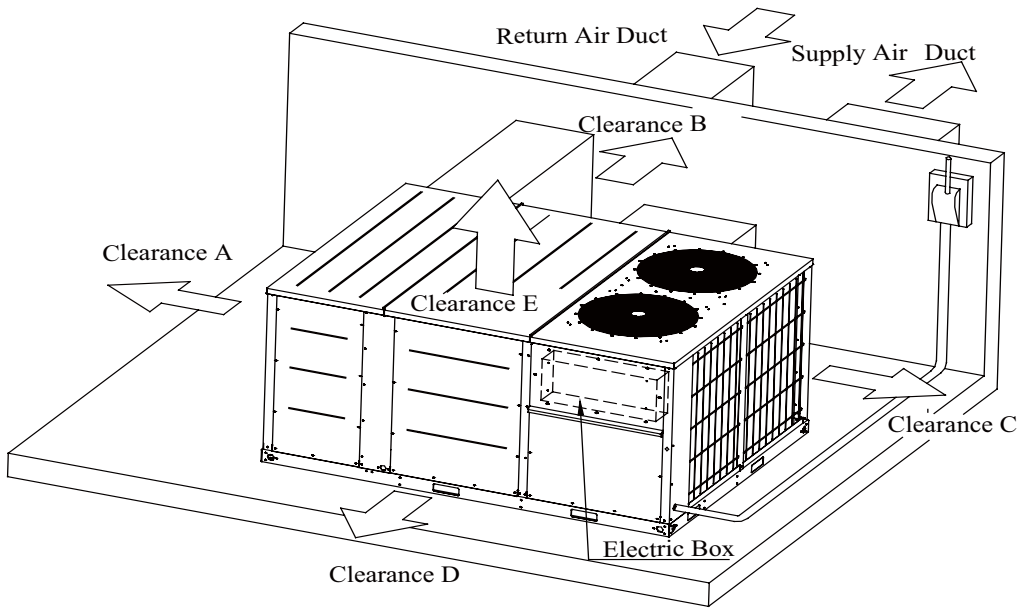


**NOTE:** Above diagrams may be different from actual model.

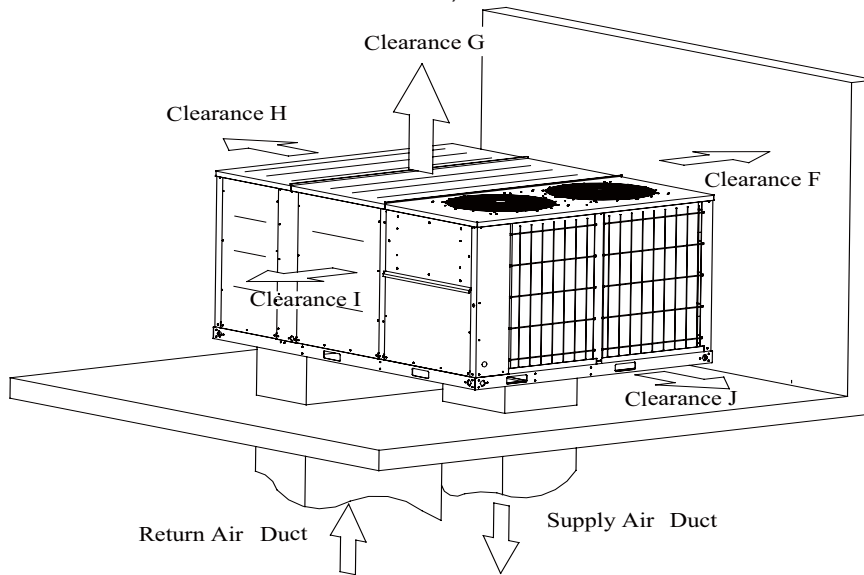
8~15Tons Side Supply/Return Installation Clearances		
DIMENSION (Minimum)	mm	inch
A	600	24
B	860	34
C	1100	43
D	1100	43
E	1100	43

8~15Tons Bottom Supply/Return Installation Clearances		
DIMENSION (Minimum)	mm	inch
F	350	14
G	860	34
H	1100	43
I	1100	43
J	1100	43

3) 20~30 TON  
MODEL-1:(TYPICAL SLAB ON GROUND INSTALLATION)



MODEL-2:(TYPICAL ROOF CURB INSTALLATION)



**NOTE:** Above diagrams may be different from actual model.

20~30Ton Side Supply/Return Installation Clearances		
DIMENSION (Minimum)	mm	inch
A	860	34
B	1100	43
C	1100	43
D	1100	43
E	1829	72

20~30Ton Bottom Supply/Return Installation Clearances		
DIMENSION (Minimum)	mm	inch
F	1100	43
G	1100	43
H	860	34
I	1100	43
J	1829	72



## 2 DRAIN PIPING WORK

### 2.1 INSTALLATION PROCEDURE

After the unit is installed, it is required to check the level of the whole unit. The unit must be placed horizontally to ensure the unit in proper function.

When shipped out from factory, both the condensate outlets are blocked by rubber plug. So before installation, please take the rubber plug out. Condensate removal is performed by attaching a PVC pipe to the drain pan and terminated in accordance with local or state Plumbing/HVAC codes.

The indoor coil condensate drain ends with a threaded 3/4"(NPT) stub tube. A trap must be built for proper condensate drainage and to prevent debris from being drawn into the unit.

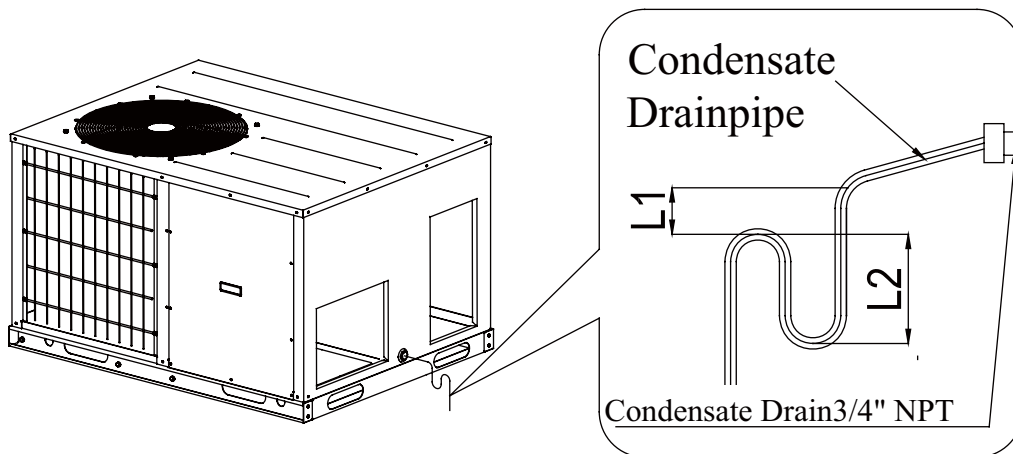
### 2.2 MATTERS OF ATTENTION

- The condensate pipe shall be installed with an inclining angel of 5~10°,so as to facilitate the drainage of condensate.
- Do not connect this drain to a closed sewer line. Connection to a vented sewer line is allowed.
- Do not use PVC cement to connect any drain piping. The drain line can them be easily separated for future cleaning.
- As the inside of the unit is in the negative pressure status, it is required to set up a backwater elbow. The requirements is:

$$L1=L2\geq P/10+20(\text{mm})$$

**Remark:** P is the absolute pressure inside the unit. The unit of the pressure is Pa.

After the electrical installation is completed, carry out the testing of the drainage system.



**NOTE:** Above diagrams may be different from actual model.

## 3 ELECTRIC WIRING WORK

### 3.1 WIRING PRINCIPLE

#### 3.1.1 PRECAUTIONS:

- 1) Before connecting lines, read the unit nameplate for message about voltages, circuit ampacity, capacity,and so on. Then carry out line connection according to the schematic diagram.
- 2) The air-conditioning unit shall have special power supply line which shall be equipped with electricity leakage switch and air switch, so as to deal with overload conditions. Moreover, leakage switch must be tested for availability in each month (press TEST button on the switch to test).
- 3) The air-conditioning unit must have grounding to avoid hazard owing to insulation failure.
- 4) Lay out power cords through cable trough or wiring pipe. Make power cord connect into electric box through the cable-cross loop to avoid scratch of it by edges of sheet metal.
- 5) Keep distance between power line and low voltage connections above 150mm.
- 6) All line connections must conform to the schematic diagram. Wrong connection may cause abnormal operation or damage of the air-conditioning unit.
- 7) Do not let any cable contact the refrigerant pipe, the compressor and moving parts such as fan.
- 8) Do not change the internal line connections inside the air-conditioning unit. The manufacturer shall not be liable for any loss or abnormal operation arising from wrong line connections.

9) If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

10) All of the supplied components, material, and electric operation should be accorded with the local principles.

**3.1.2 ELECTRICAL CONNECTIONS-SUPPLY VOLTAGE:**

1) Air-conditioning unit with single-phase power supply

- ① Remove the Electric Box Cover of the unit.
- ② Pass the cable through rubber ring.
- ③ Connect the power supply cable to the “L1,L2” terminals and the grounding screw.
- ④ Use cable fastener to bundle and fix the cable.

2) Air-conditioning unit with 3-phase power supply

- ① Remove the Electric Box Cover of the unit.
- ② Pass the cable through rubber ring.
- ③ Connect the power supply cable to the “L1,L2,L3” terminals and the grounding screw.
- ④ Use cable fastener to bundle and fix the cable.

3) Low Voltage Connections

Low voltage wiring must use copper cord. A minimum of 18AWG must be used for distance up to 50' and 16AWG for distance over 50'.

- ① Remove the Electric Box Cover of the unit.
- ② Pass the signal cable of the wire controller through rubber ring.
- ③ Connect the signal cable to the “C,Y” terminals.
- ④ Use cable fastener to bundle and fix the cable.

**CAUTION:**

Take great care when carrying out the following connections, so as to avoid malfunction of the air-conditioning unit because of electromagnetic interference.

1) The signal line of the wire controller must be separated from the power line.

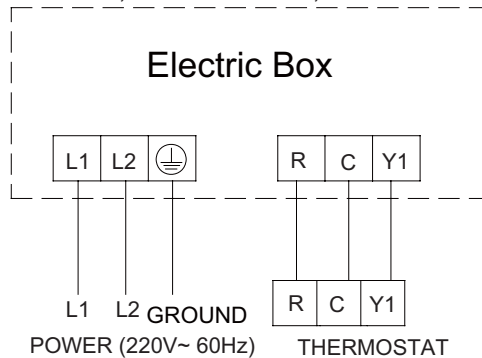
2) In case the unit is installed in a place vulnerable by electromagnetic interference, it is better to use shielded cable or double-twisted cable as the signal line of the wire controller.

**3.2 ELECTRIC WIRING DESIGN**

**3.2.1 SINGLE PHASE (220V~ 60Hz POWER SUPPLY)**

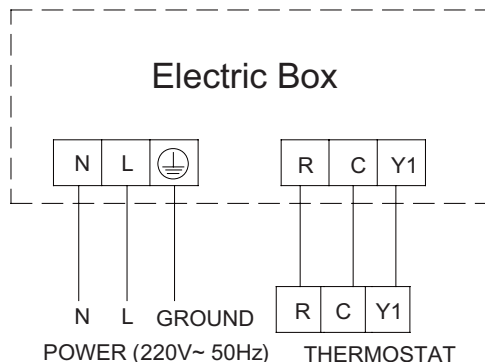
● **Single Phase (220V~ 60Hz POWER SUPPLY)**

Model: GK-C03NC1AD,GK-C03TC1AD,GK-C04NC1AD,GK-C04TC1AD,GK-C05NC1AD



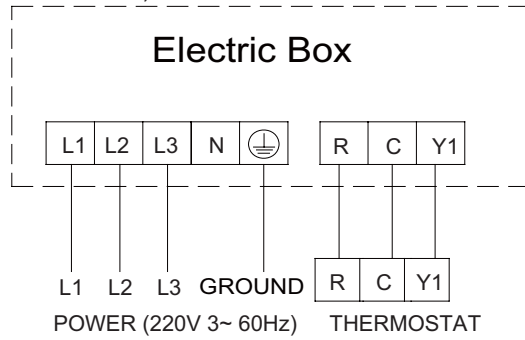
● **Single Phase (220V~ 50Hz POWER SUPPLY)**

Model: GK-C03TC1AK

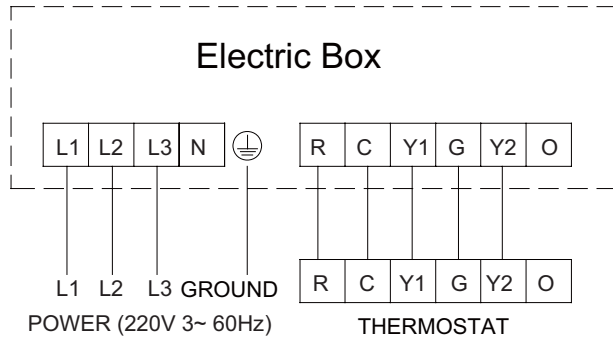


● **Three Phase (220V 3~ 60Hz POWER SUPPLY)**

Model: GK-C04TC1AF, GK-C05NC1AF, GK-C05TC1AF

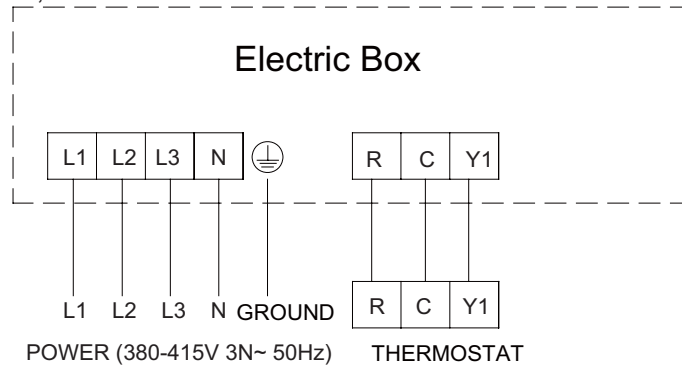


Model: GK-C08TC1AF, GK-C10TC1AF, GK-C13TC1AF, GK-C15TC1AF, GK-C20TC1AF, GK-C25TC1AF

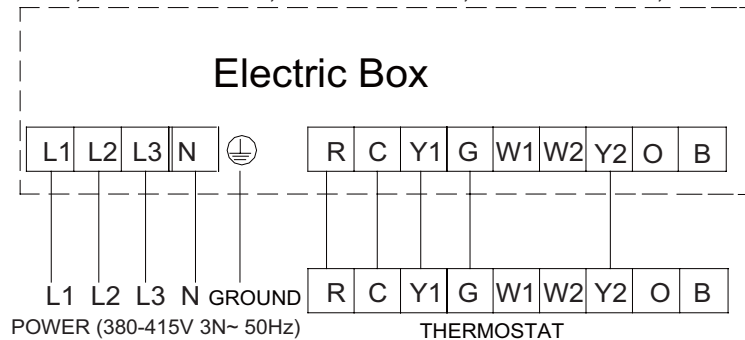


● **Three Phase (380-415V 3N~ 50Hz POWER SUPPLY)**

Model: GK-C04TC1AM, GK-C05TC1AM

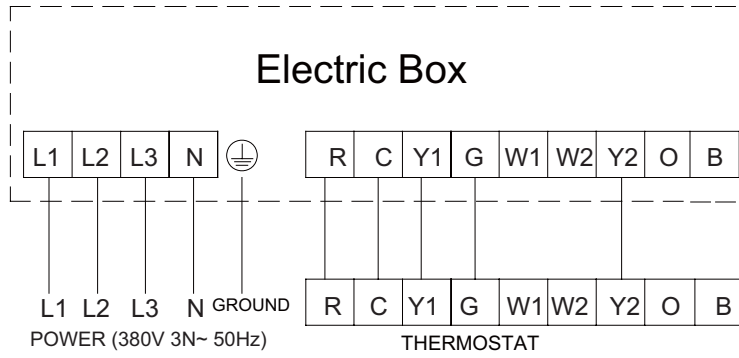


Model : GK-C08TC1AM, GK-C10TC1AM, GK-C15TC1AM, GK-C20TC1AM, GK-C25TC1AM



● **Three Phase (380V 3N~ 50Hz POWER SUPPLY)**

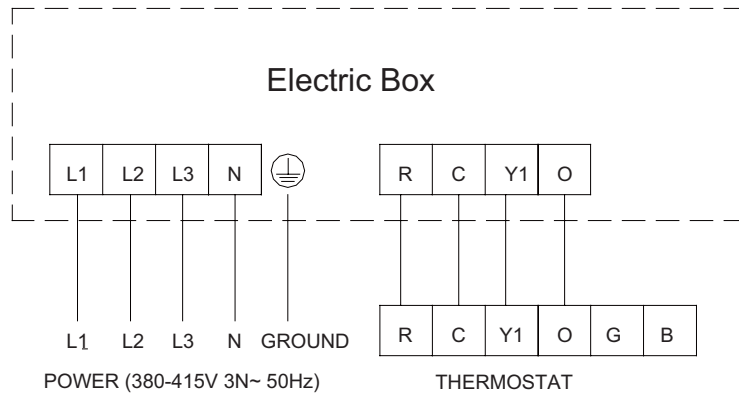
Model: GK-C30TC1AM



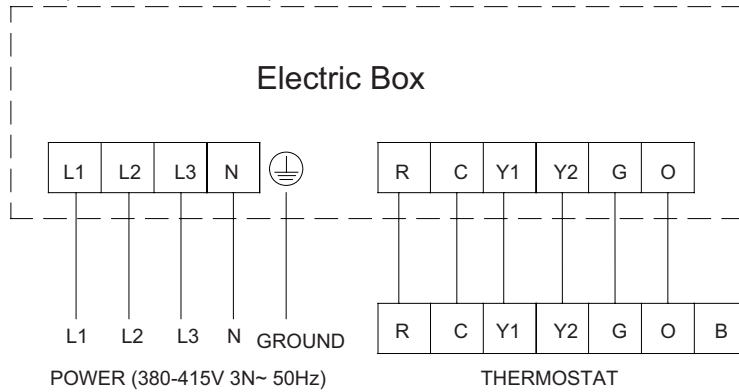
3.2.2 Heat Pump

● **Three Phase (380-415V 3N~ 50Hz POWER SUPPLY)**

Model: GK-H05TC1AM



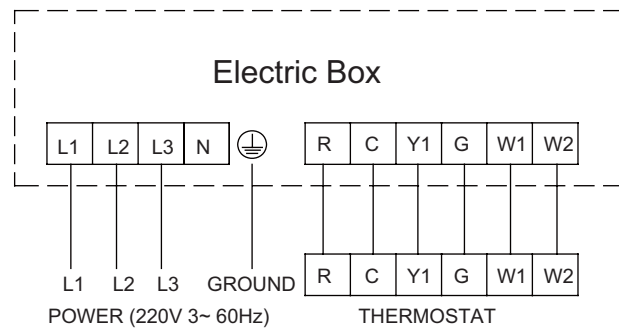
Model: GK-H08TC1AM, GK-H10TC1AM, GK-H15TC1AM  
GK-H20TC1AM, GK-H25TH1AM, GK-H30TH1AM



### 3.2.3 Cooling with electric heat

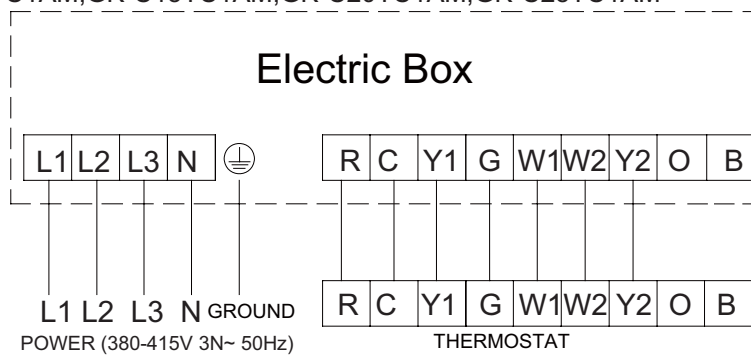
- **Three Phase (220V 3~ 60Hz POWER SUPPLY)**

Model: GK-C13TC1AF, GK-C25TC1AF



- **Three Phase (380-415V 3N~ 50Hz POWER SUPPLY)**

Model: GK-C10TC1AM, GK-C15TC1AM, GK-C20TC1AM, GK-C25TC1AM



# MAINTENANCE

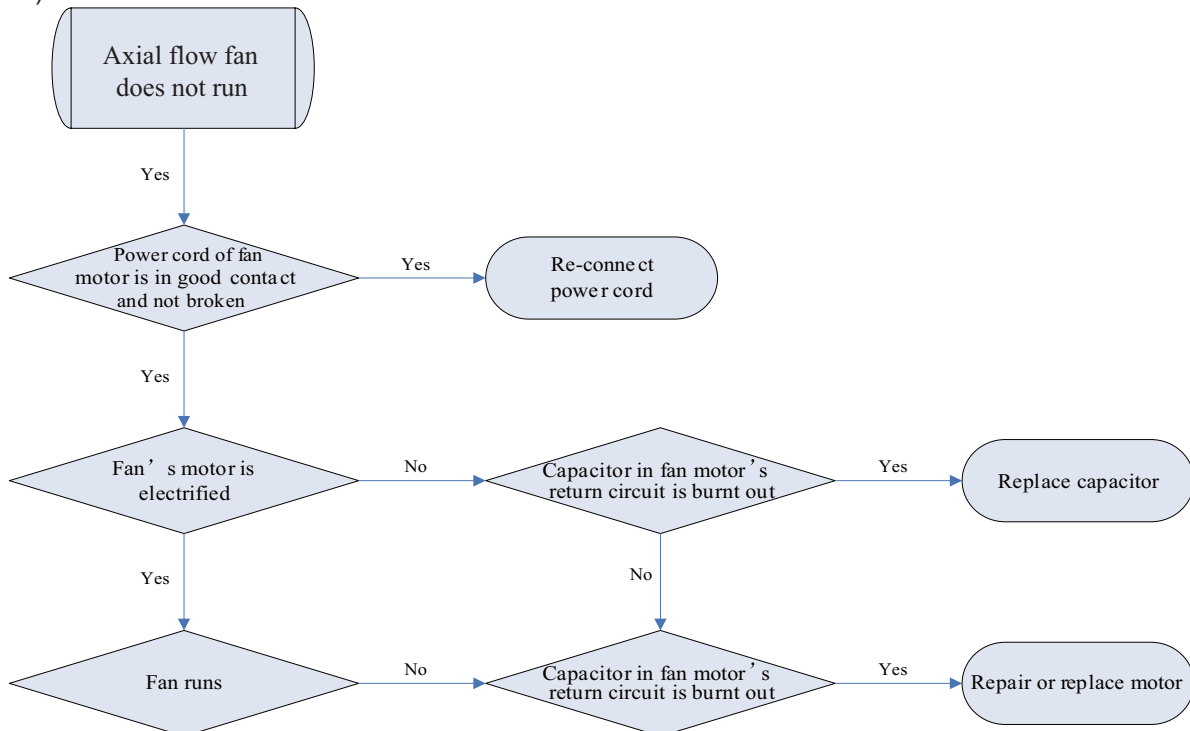
## MAINTENANCE

### 1 BLE TABLE

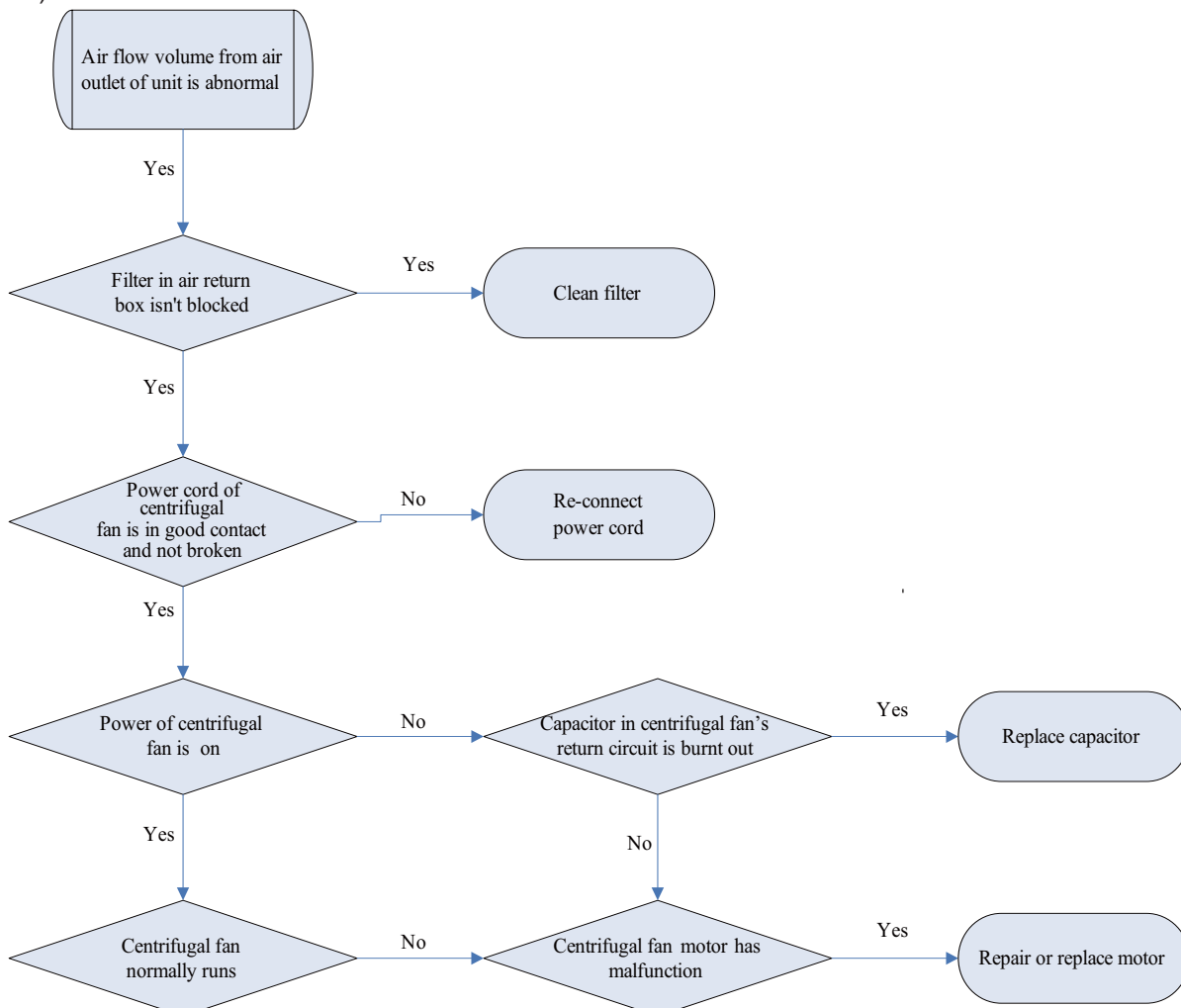
Malfunction Phenomenon	Possible Causes	Troubleshooting
Axial flow fan does not run	Power cord of fan motor is in poor contact or broken	Re-connect power cord
	Fan motor has malfunction	Repair or replace motor
	Capacitor in fan motors return circuit is burnt out	Replace Capacitor
Air flow volume becomes lower or no air from air outlet of unit	Power cord of centrifugal fan is in poor contact or broken	Re-connect power cord
	Centrifugal fan has malfunction	Repair or replace motor
	Filter in air return box is blocked	Clean filter
	Capacitor in centrifugal fans return circuit is burnt out	Replace capacitor
Compressor can not start up	Power cord of compressor is in poor contact or broken	Re-connect power cord
	Compressor has malfunction	Repair or replace compressor
	Capacitor in centrifugal compressors return circuit is burnt out	Replace Capacitor
Unit can not start up for cooling	Power supply is stopped and fuse burns out or circuit breaks	Resume power supply and replace fuse or re-connect circuit
	Power switch is not switched on or in poor contact	Repair or replace power switch to switch on power supply
	Improper connection of power cord	Re-connect power cord
	Electrical elements in electric box are damaged	Replace damaged elements
Poor cooling effect	Compressor has malfunction	Repair or replace compressor
	Axial flow fans motor has malfunction	Repair or replace motor
	Centrifugal fan has malfunction	Repair or replace motor
	Condenser is blocked by sundries	Clear sundries
	Filter in air return box is blocked	Clean filter
	Piping system, capillary or strainer is blocked	Clean or replace it after disassembly
	Shortage of refrigerant or nozzle for adding freon leaks refrigerant	Replace the nozzle for adding freon
	Installation location of unit does not conform to requirements or there are some factors around the unit which affects heat dispersion of unit	Eliminates affected factors or re-select installation location of unit
Noise or abnormal vibration of unit	Installation of unit or pedestal does not meet requirements	Re-install unit or eliminate affected factors
	Loose of compressors holding bolt or strenuous vibration of compressor	Adjust tightness of compressor
	Loose of fan bracket, motor is not tightened, or strenuous vibration of fan	Tighten loose part
	Fan motor has malfunction	Repair or replace motor
	Compressor has malfunction	Repair or replace compressor

## 2 FLOW CHART OF TROUBLESHOOTING

### 1) Axial flow fan does not run

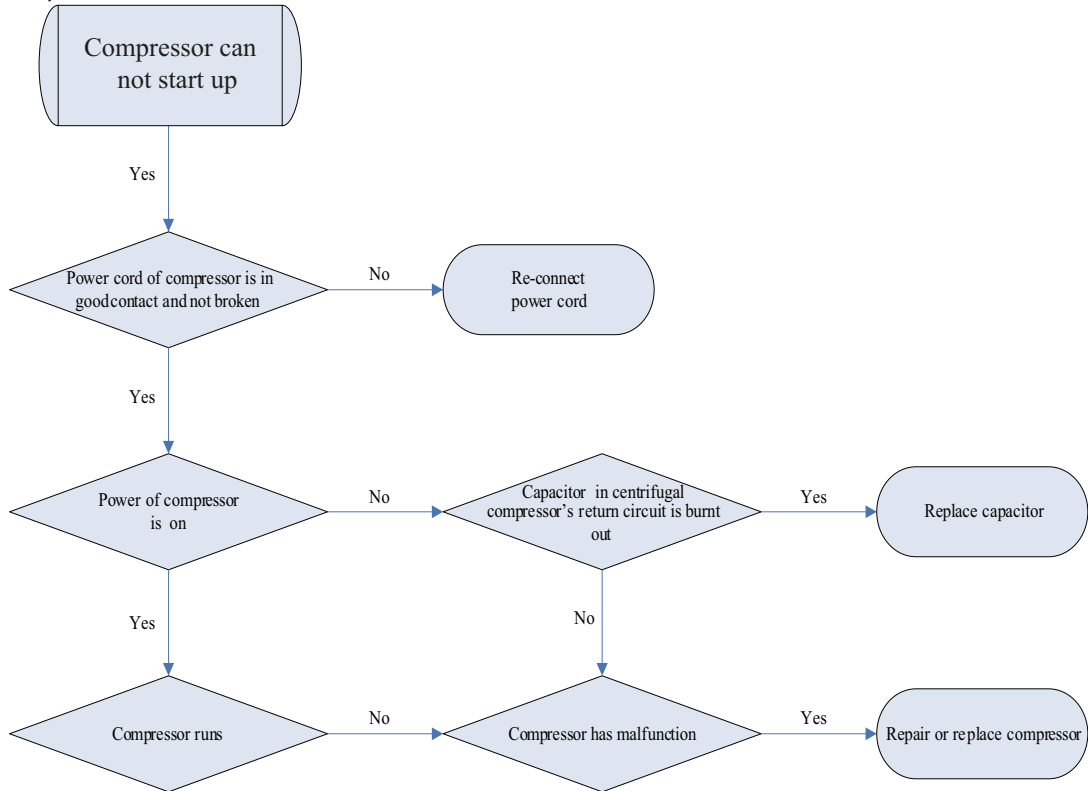


### 2) Air flow volume from air outlet of unit is abnormal

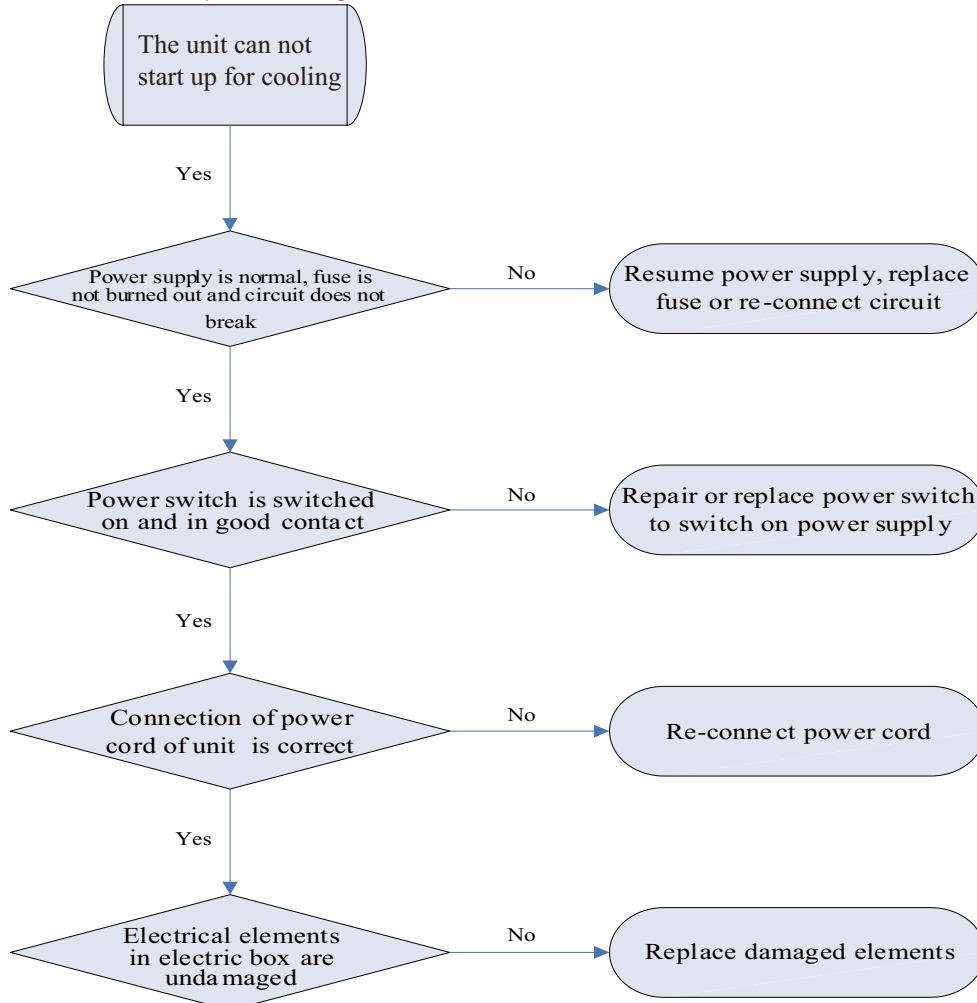




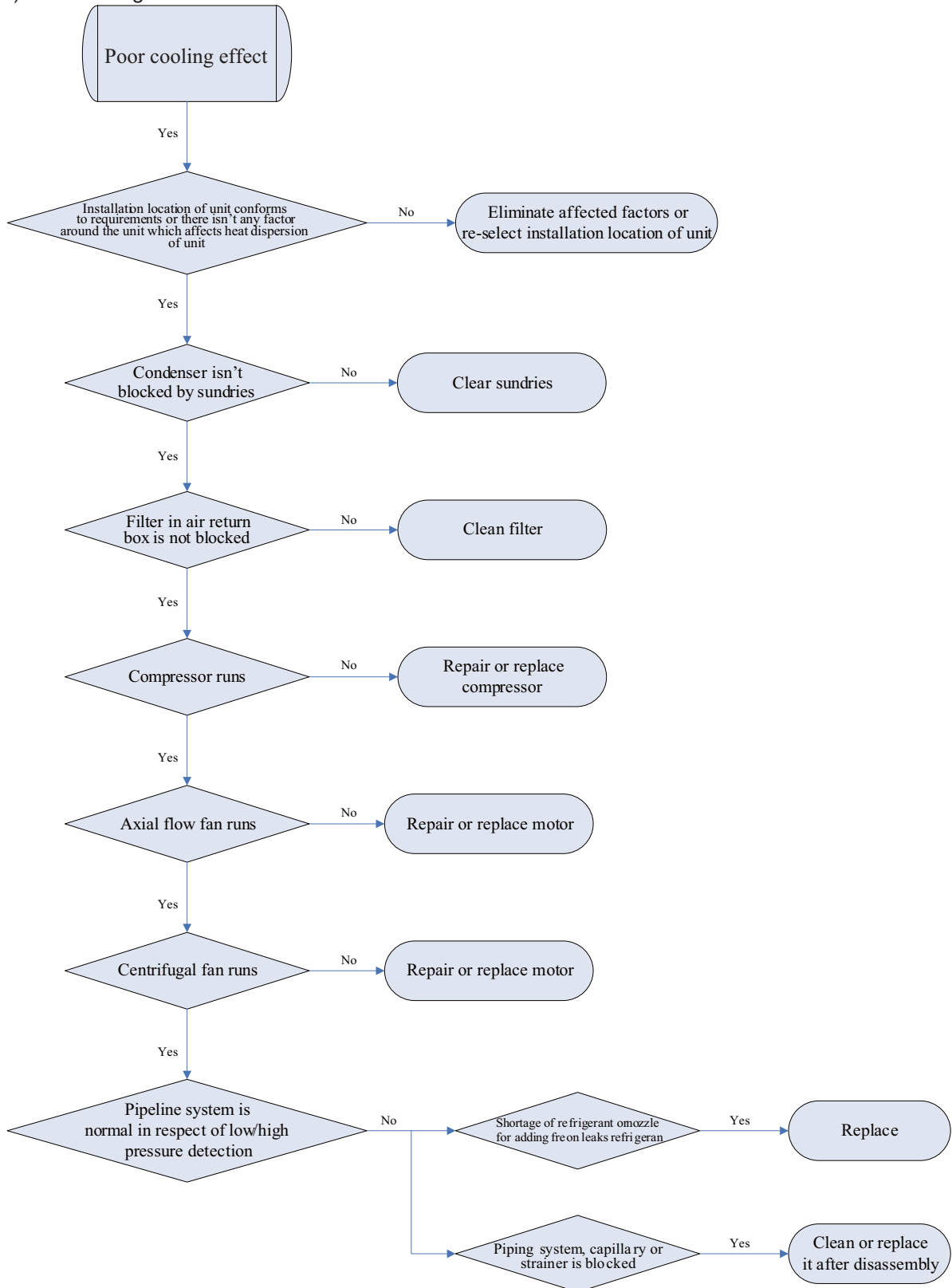
3) Compressor has malfunction



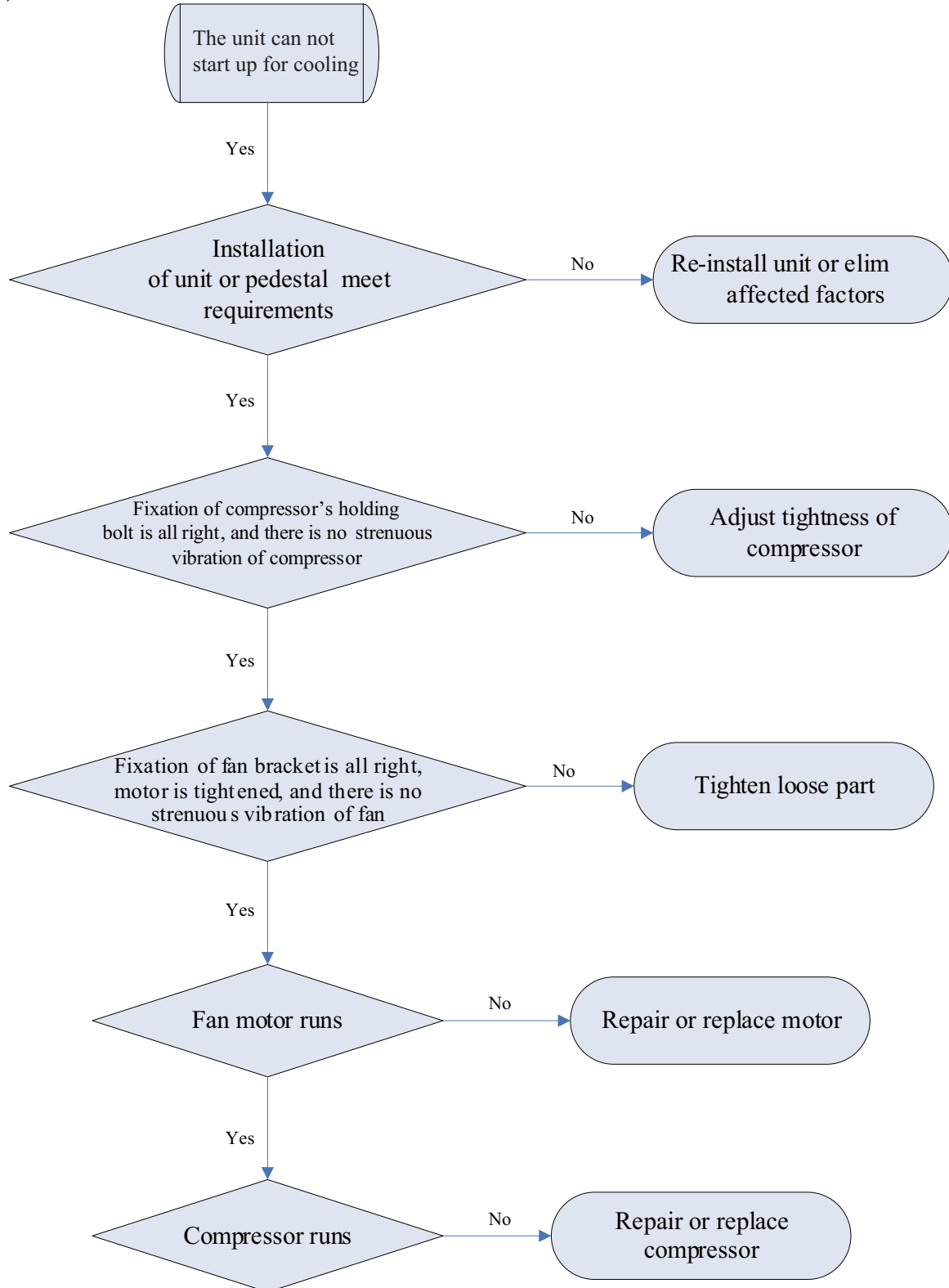
4) The unit can not start up for cooling



5) Poor cooling effect

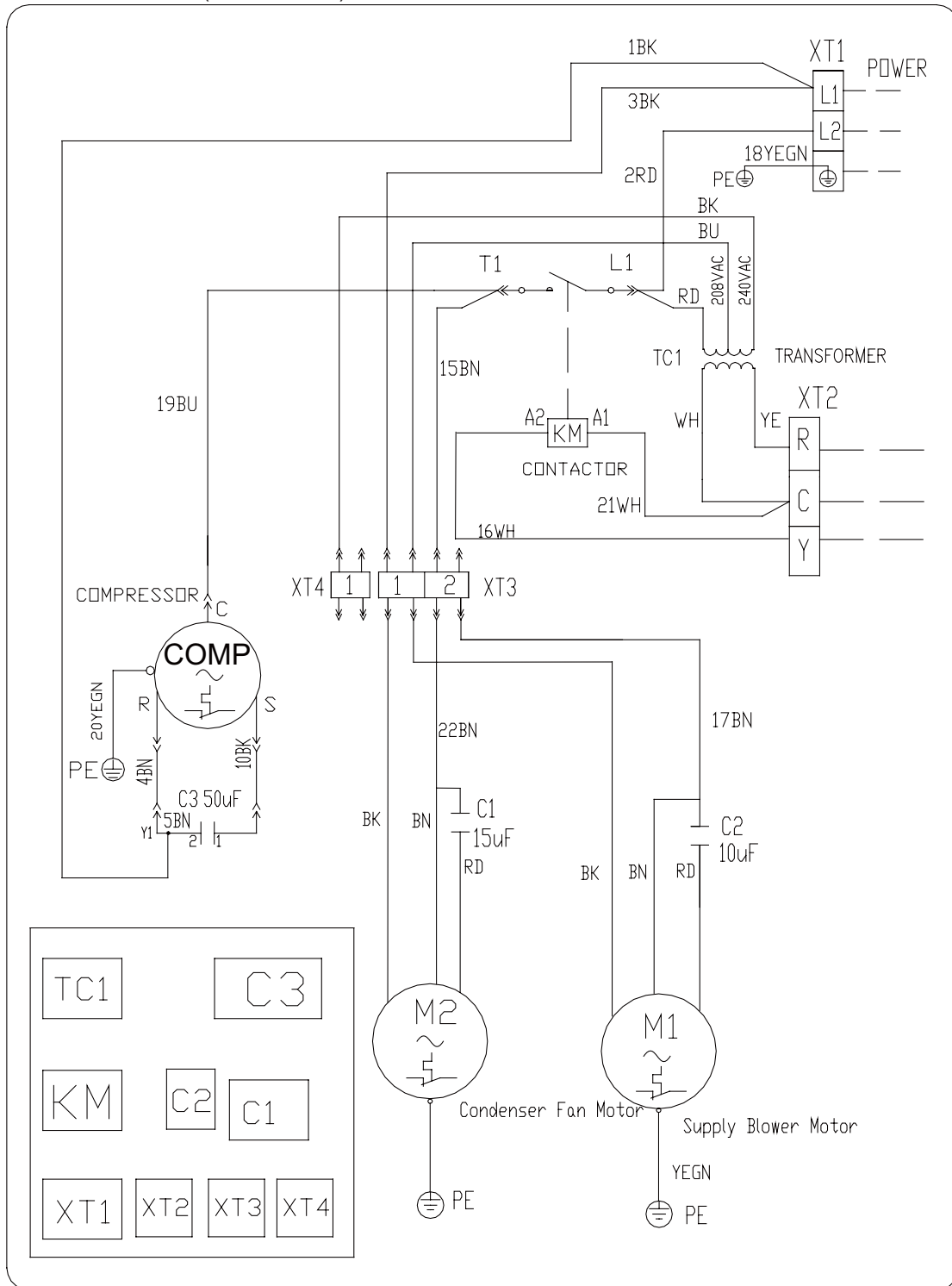


6) Noise or abnormal vibration of unit

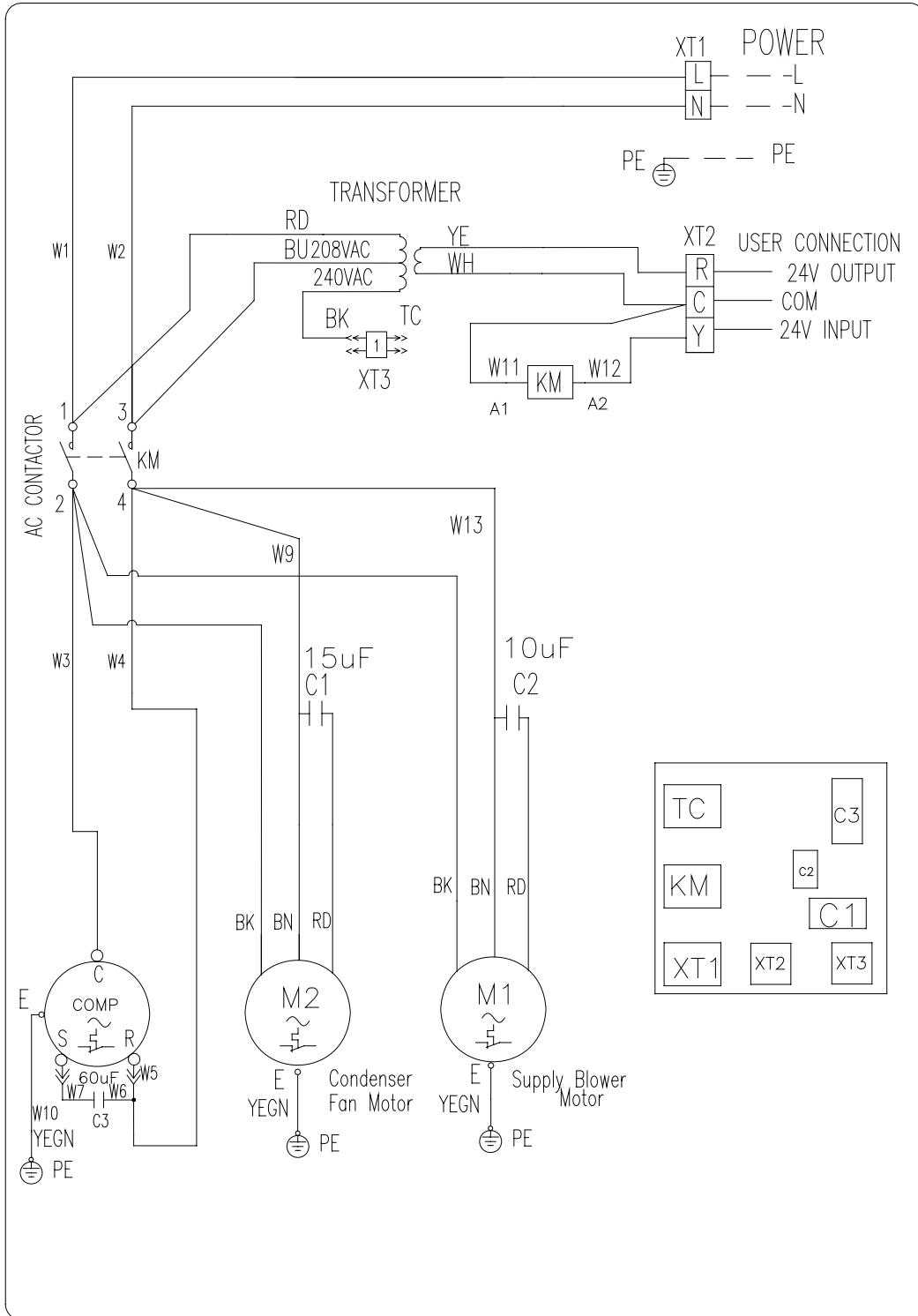


### 3 WIRING DIAGRAM

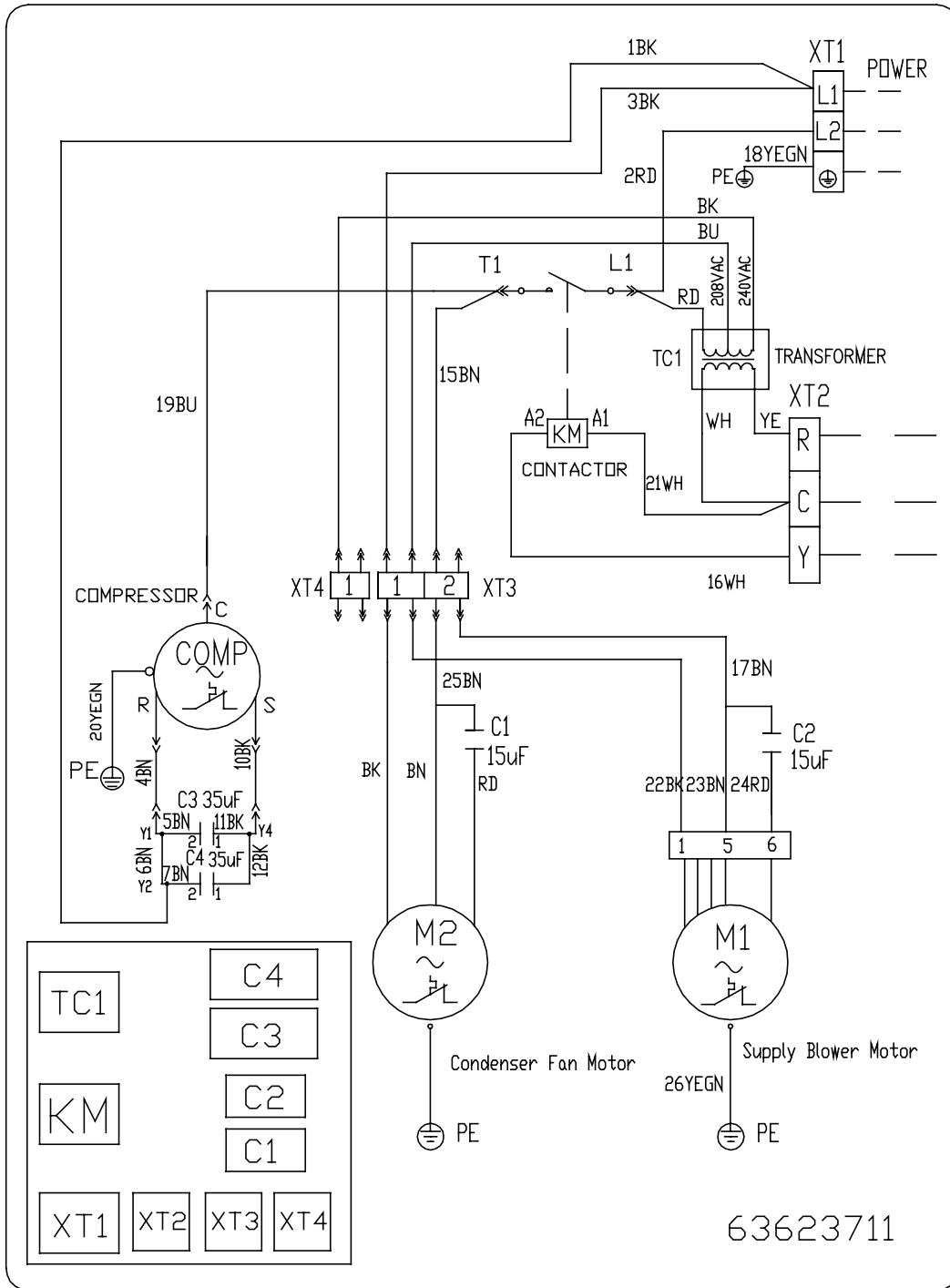
Model: GK-C03TC1AD(EJ51000160)



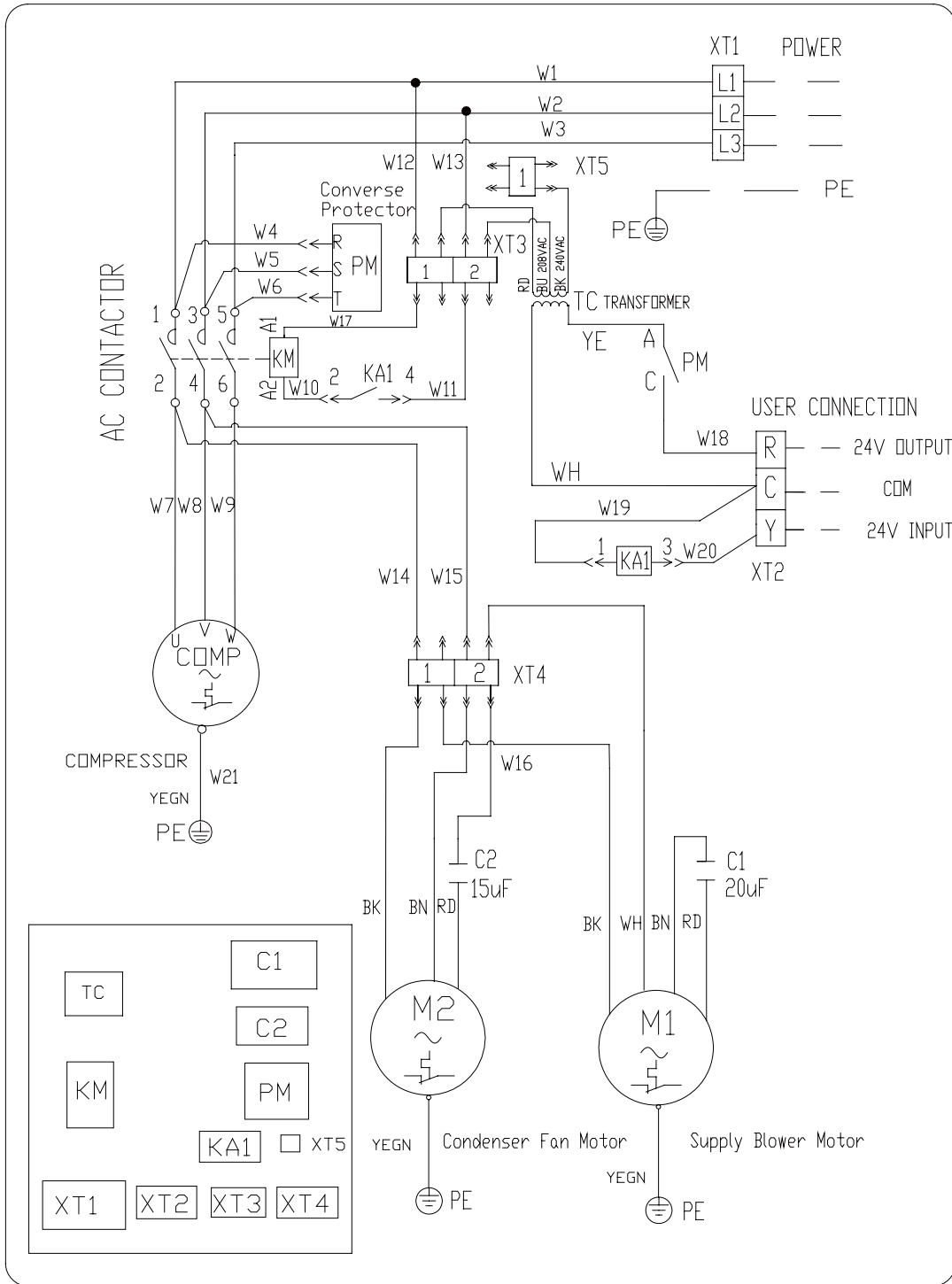
Model: GK-C03TC1AD(EJ51000161)



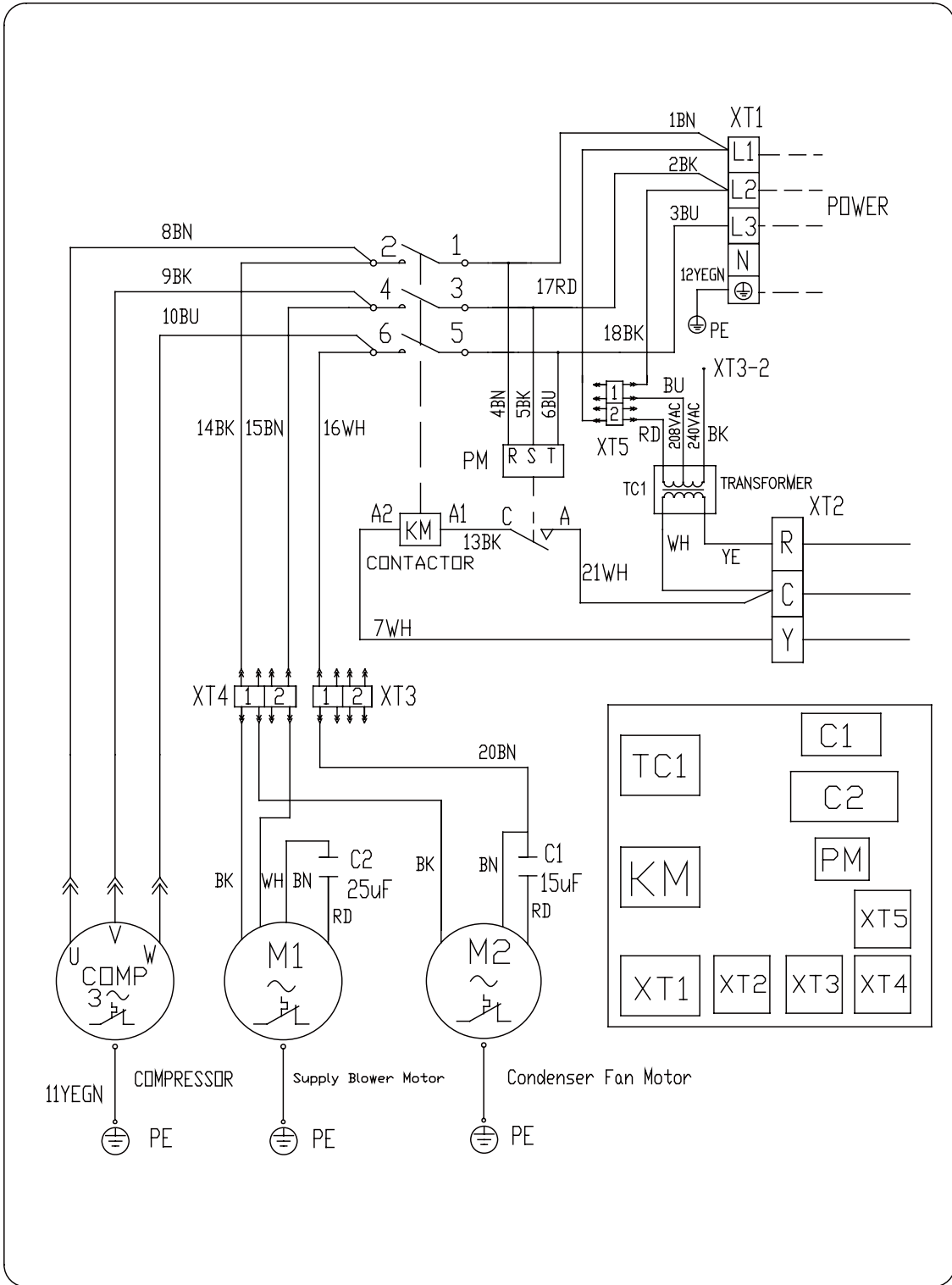
Model: GK-C04TC1AD



Model: GK-C04TC1AF

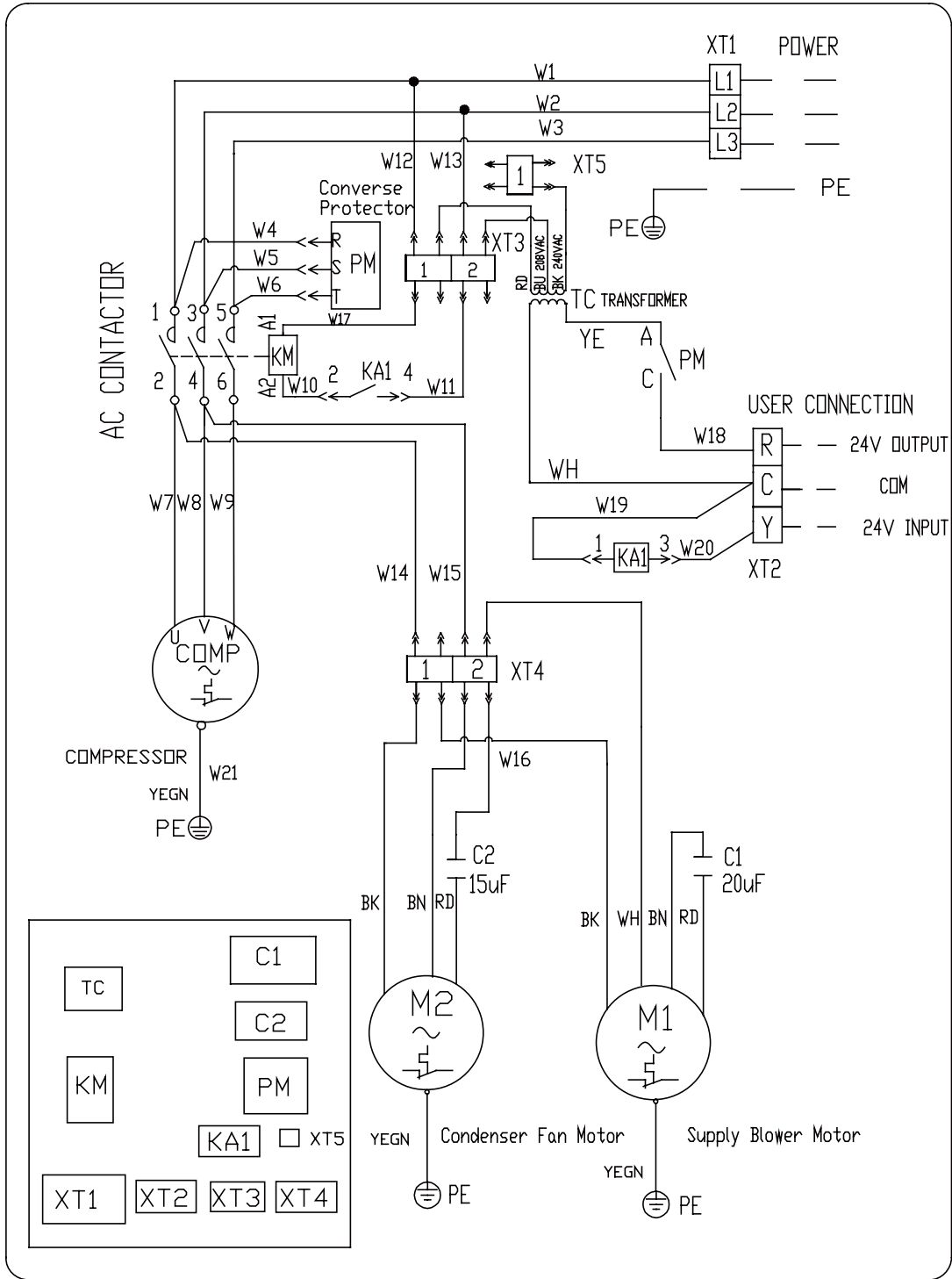


Model: GK-C05TC1AF(EJ51000190)

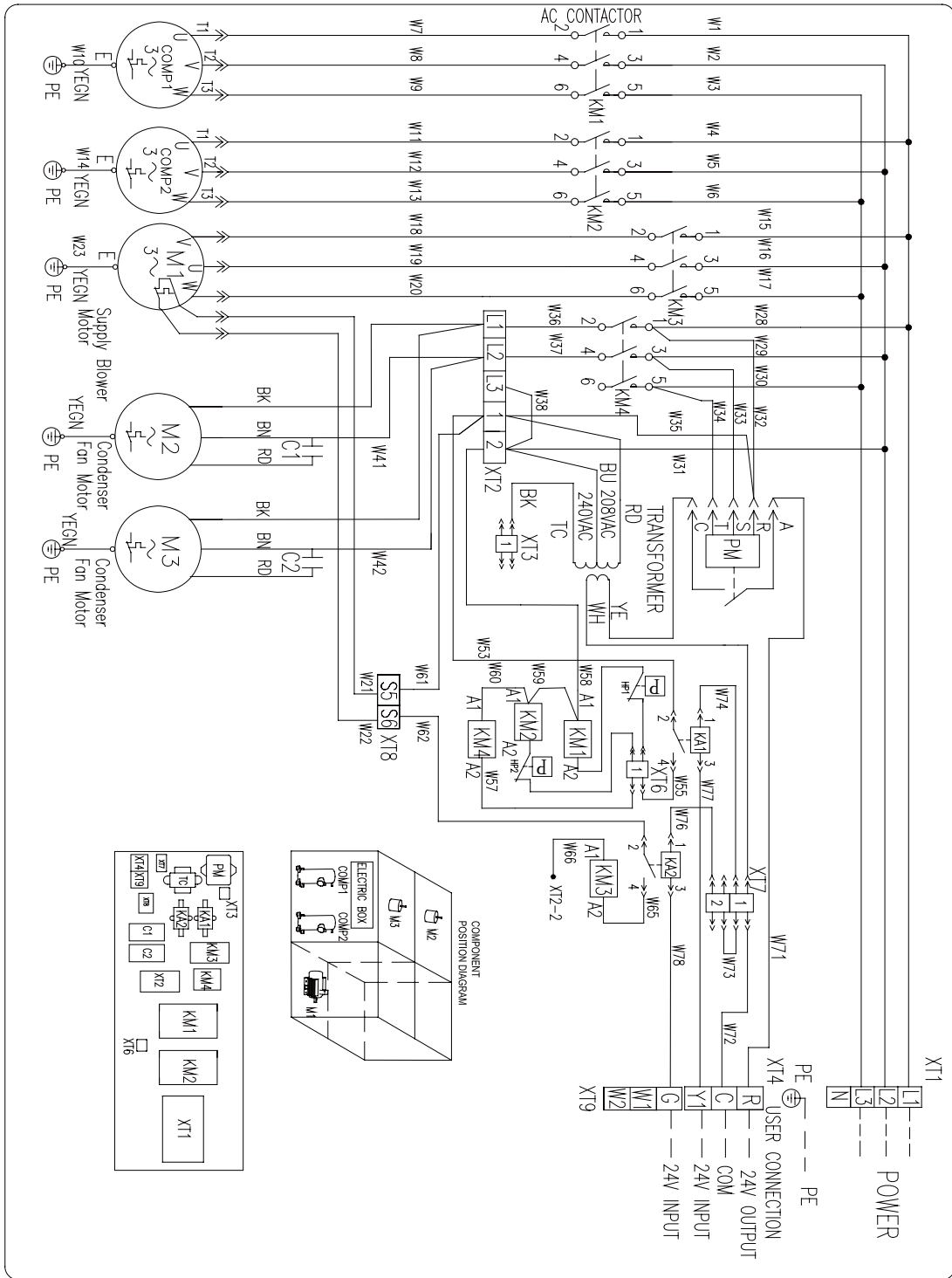




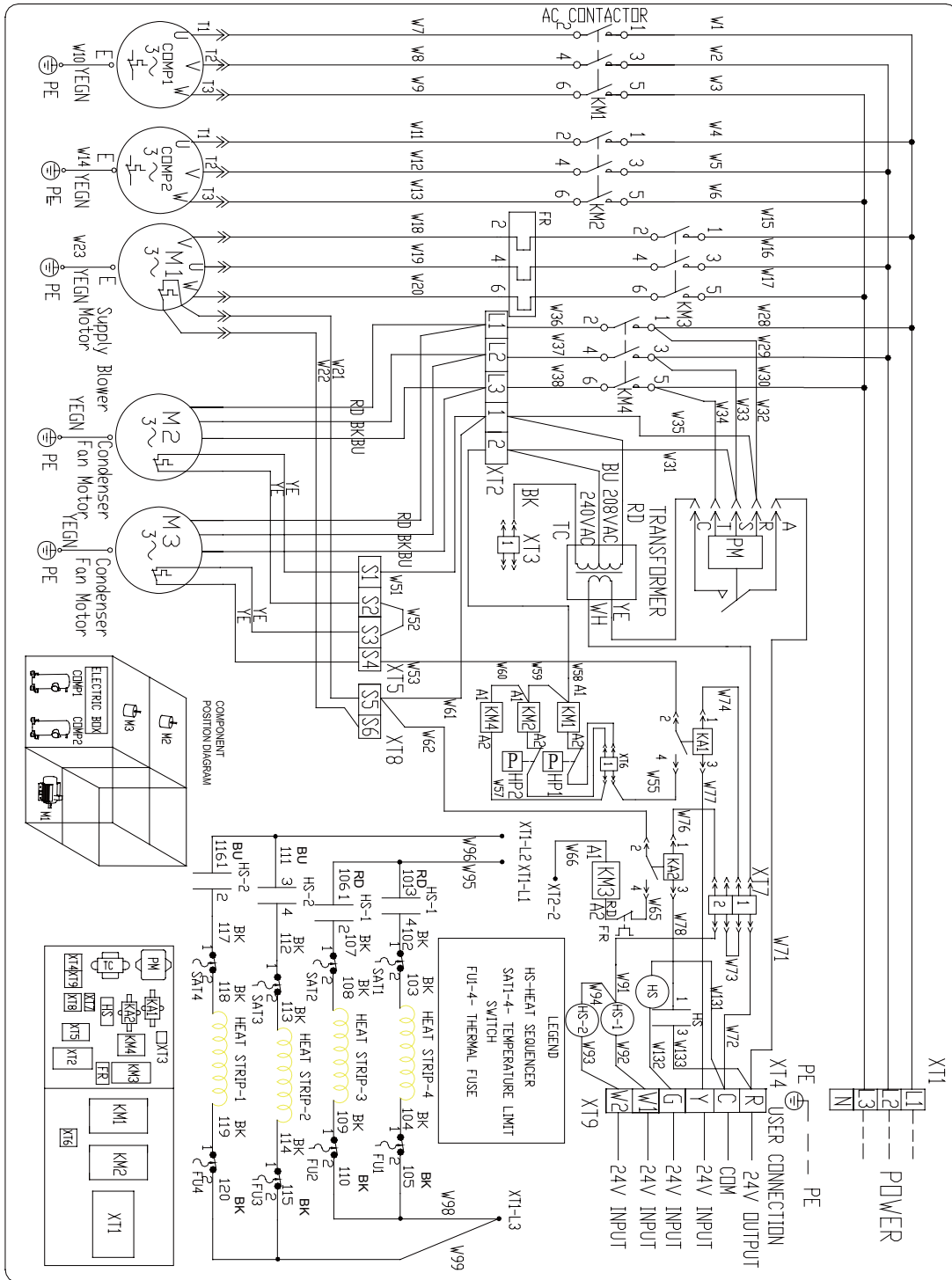
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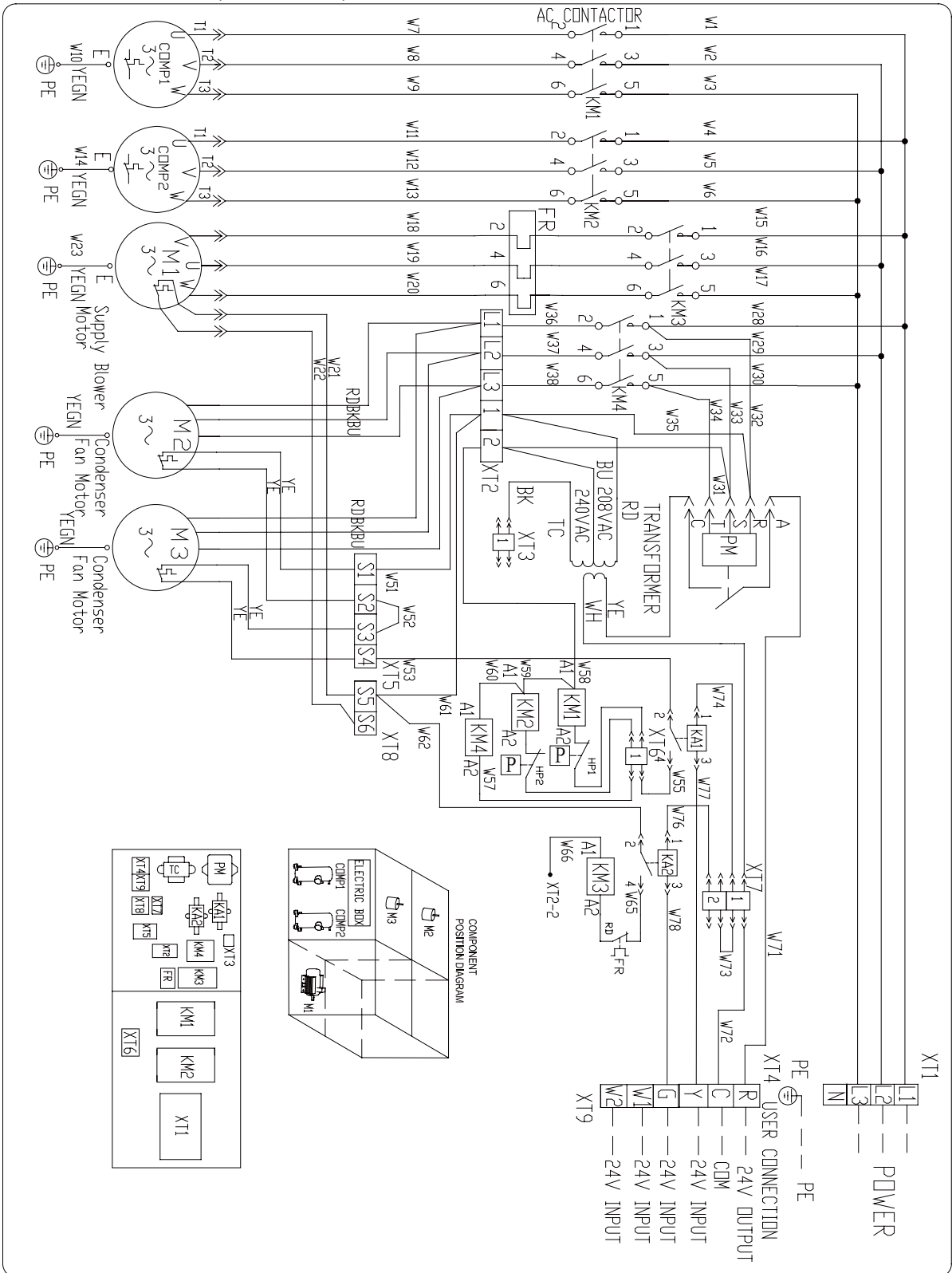
Model: GK-C08TC1AF,GK-C10TC1AF



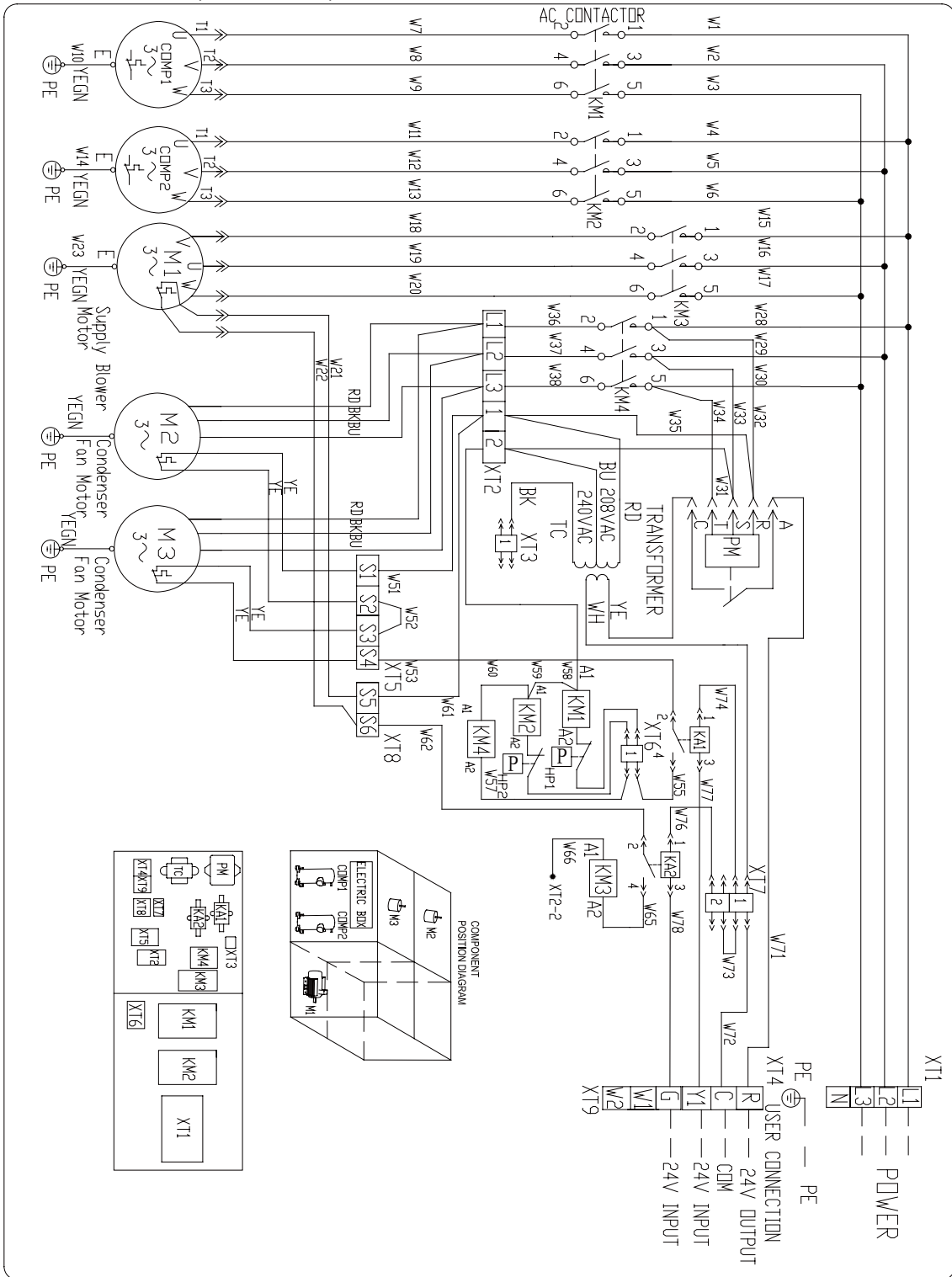
Model: GK-C13TC1AF



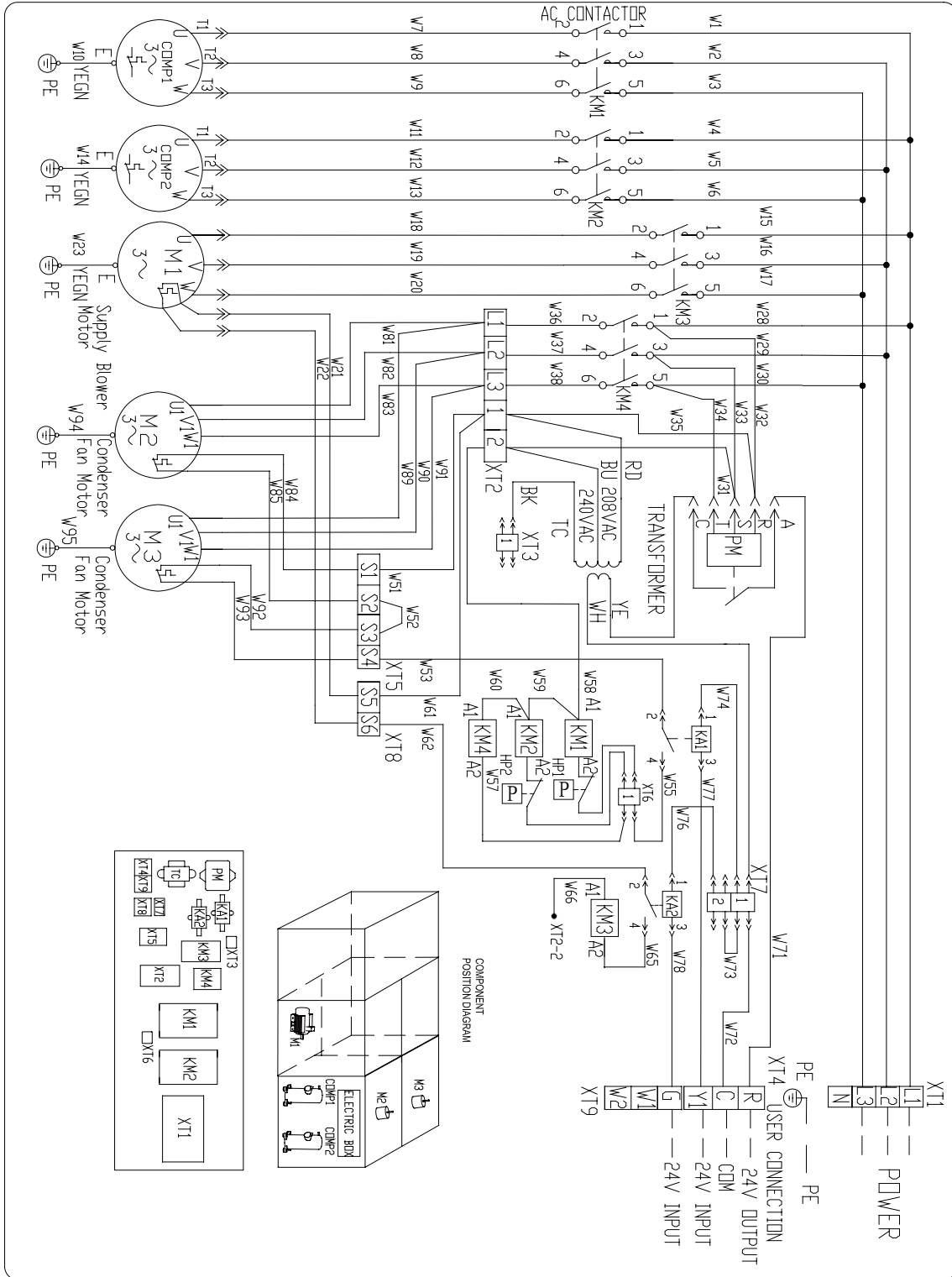
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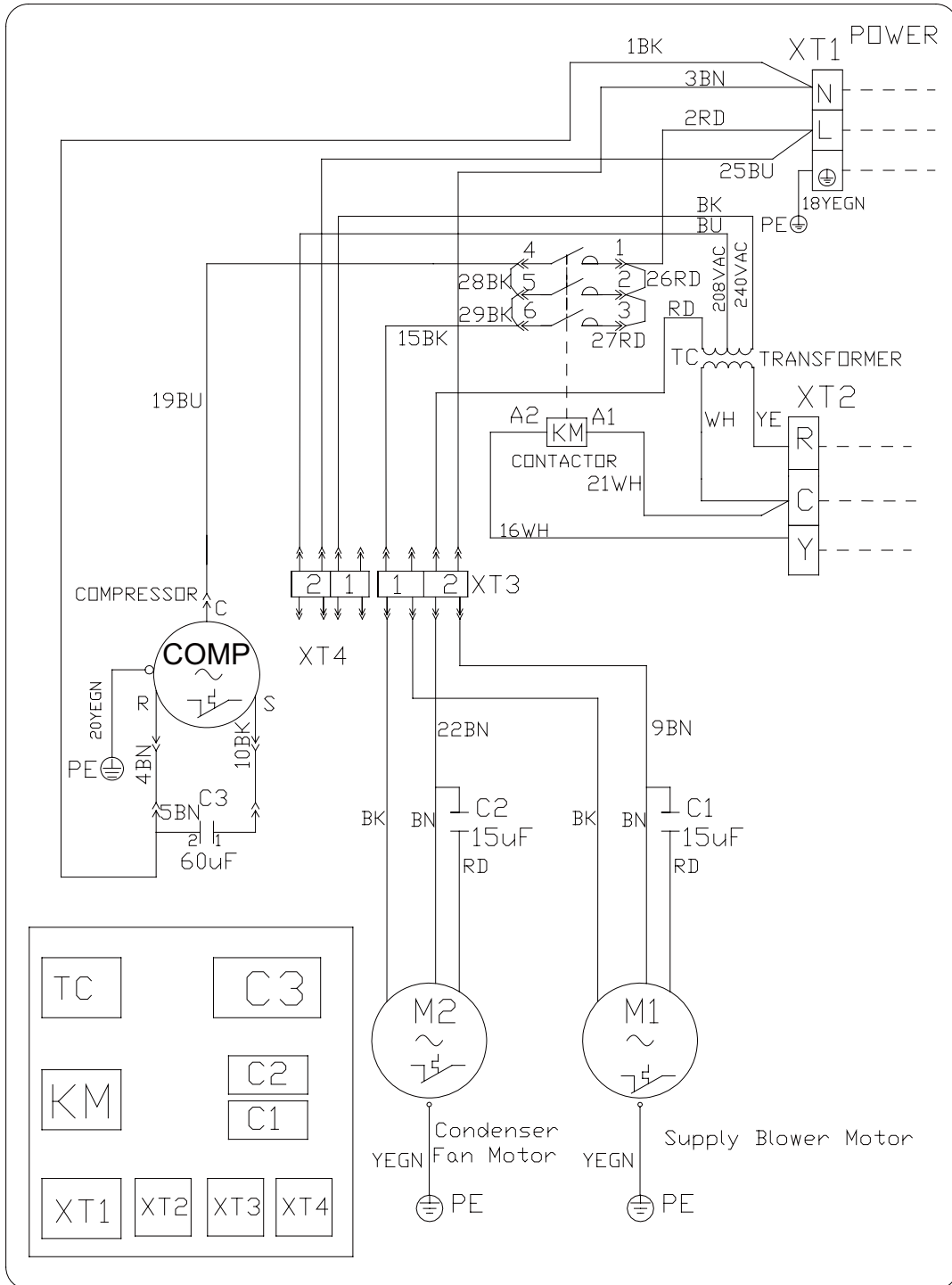
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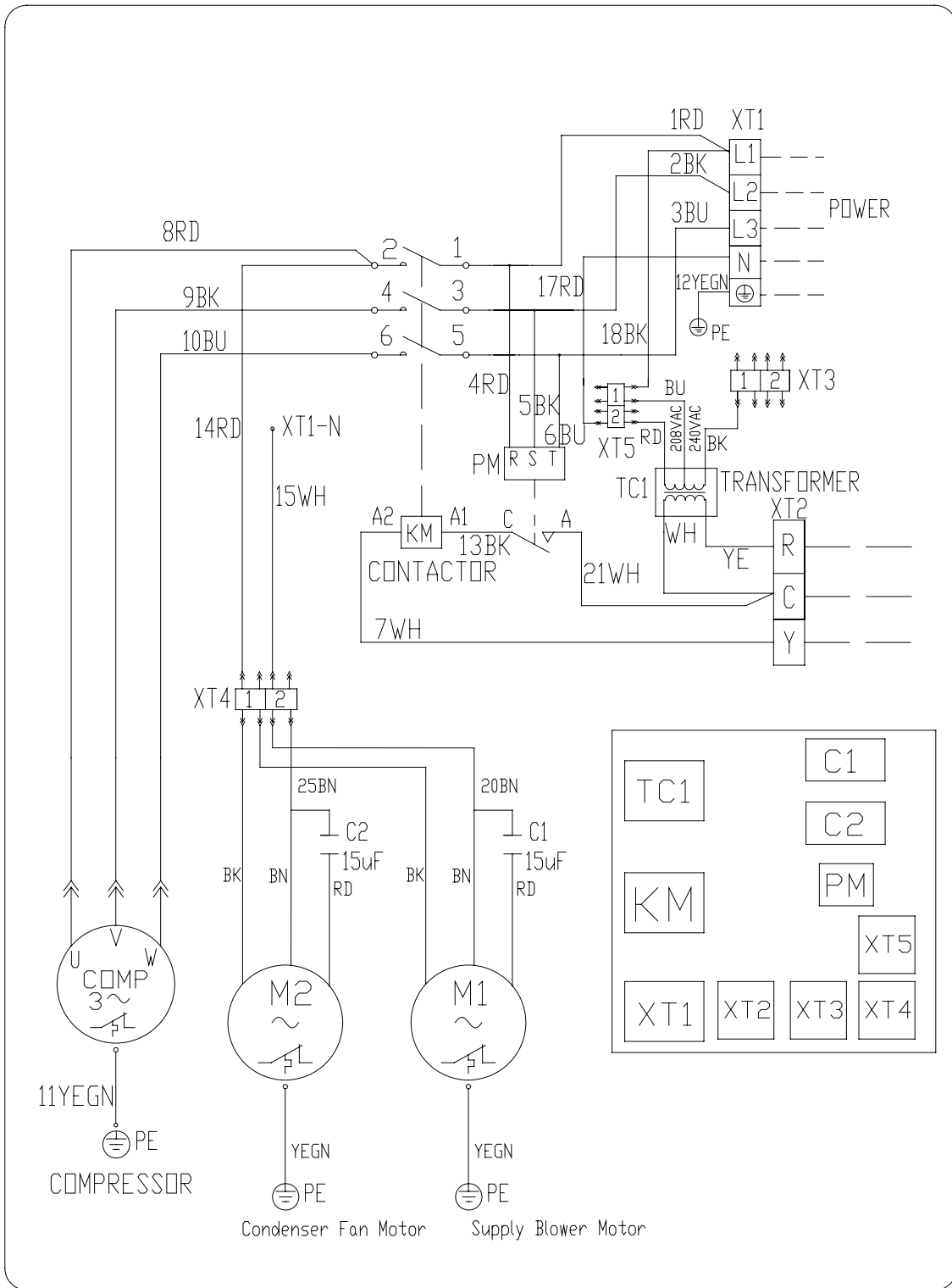
Model: GK-C20TC1AF, GK-C25TC1AF



Model: GK-C03TC1AK

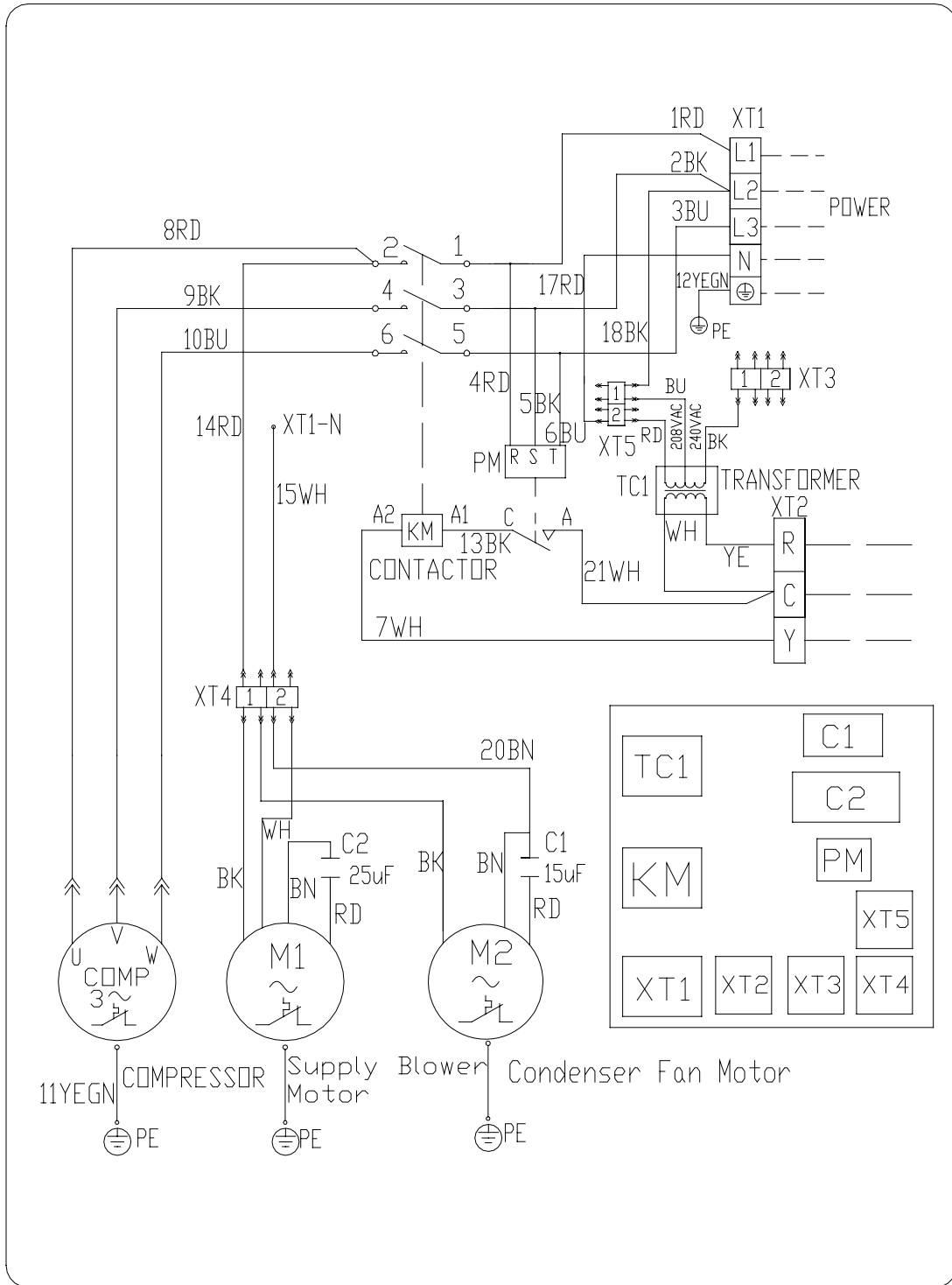


Model: GK-C04TC1AM

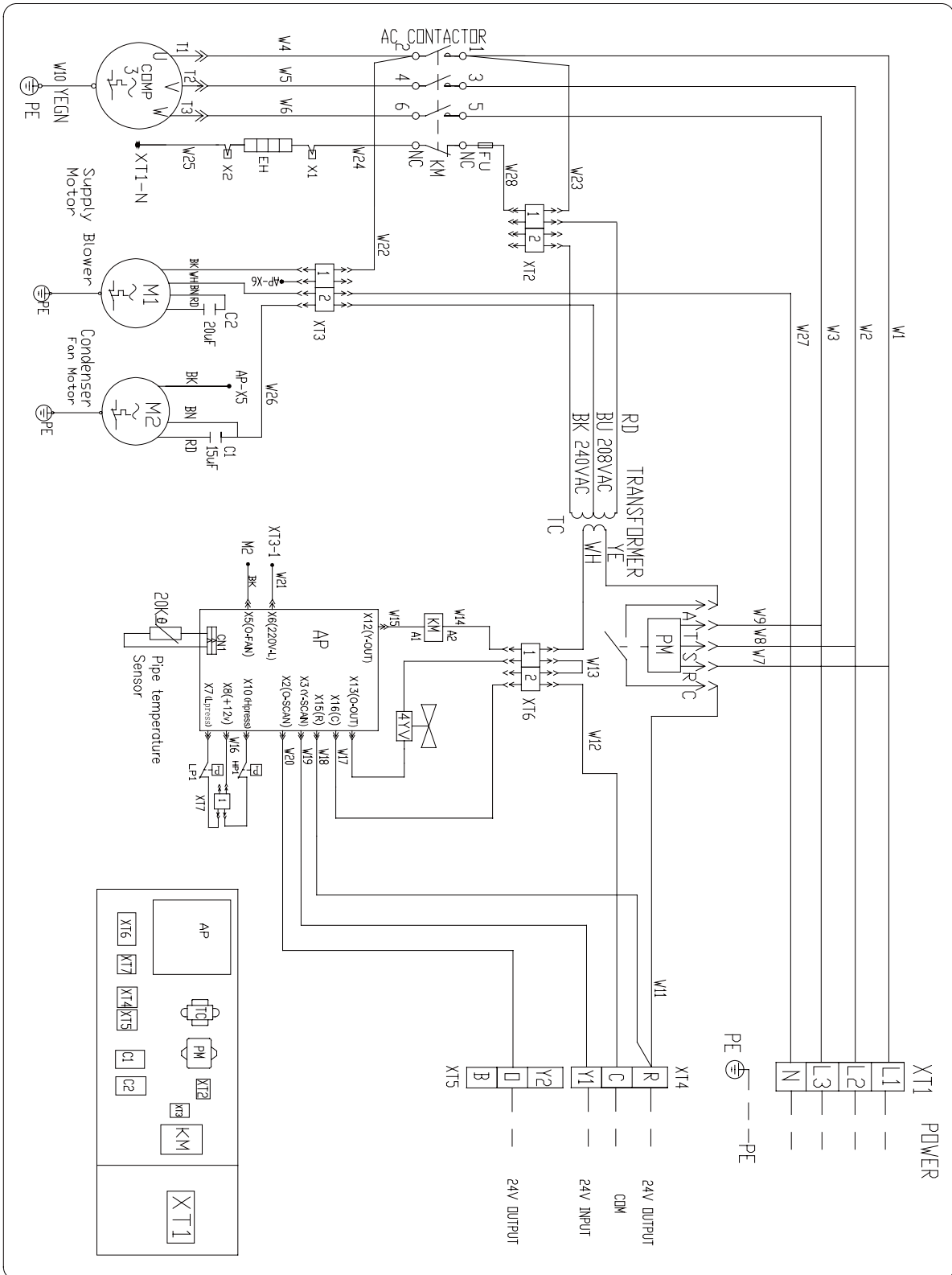




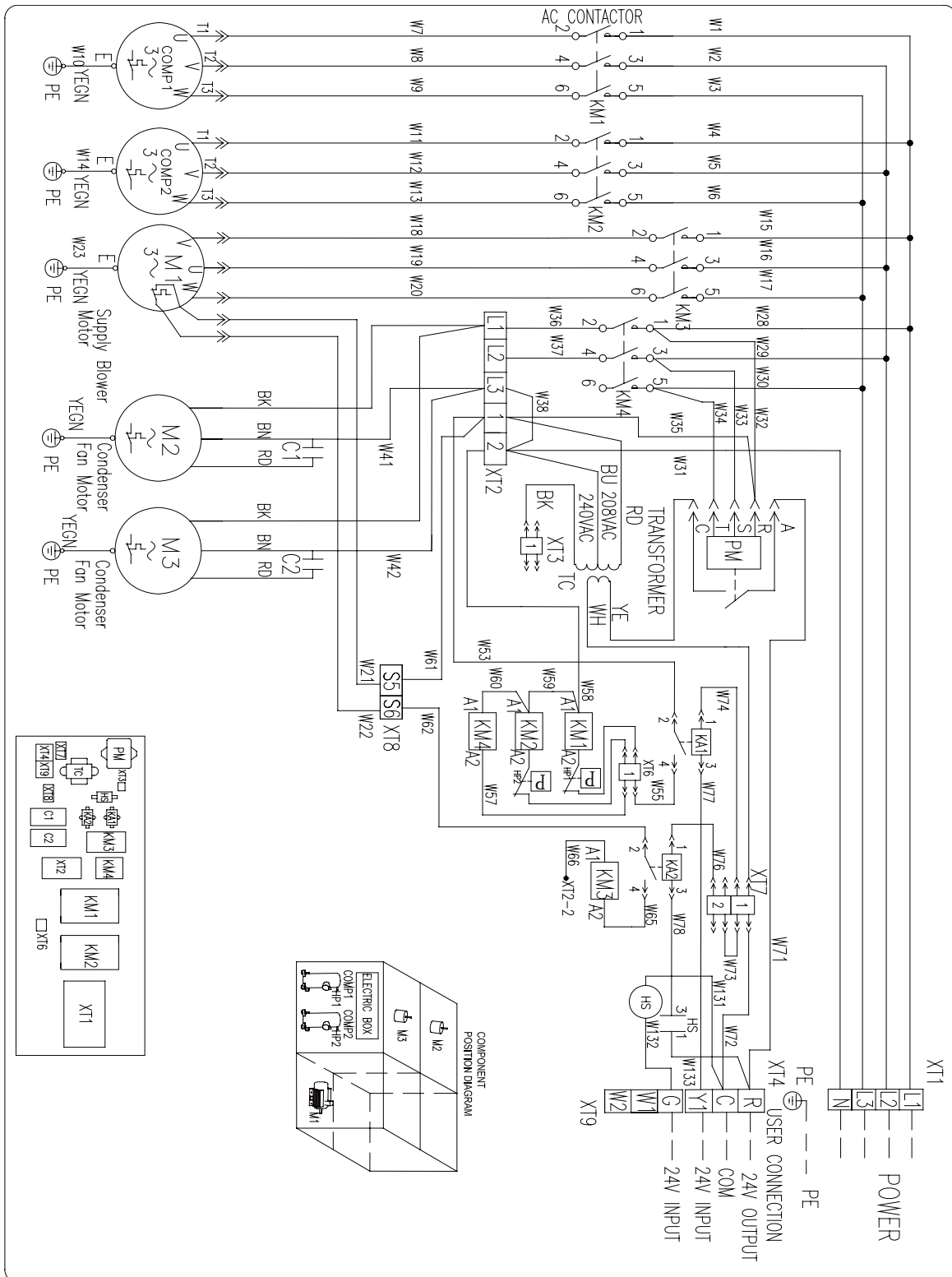
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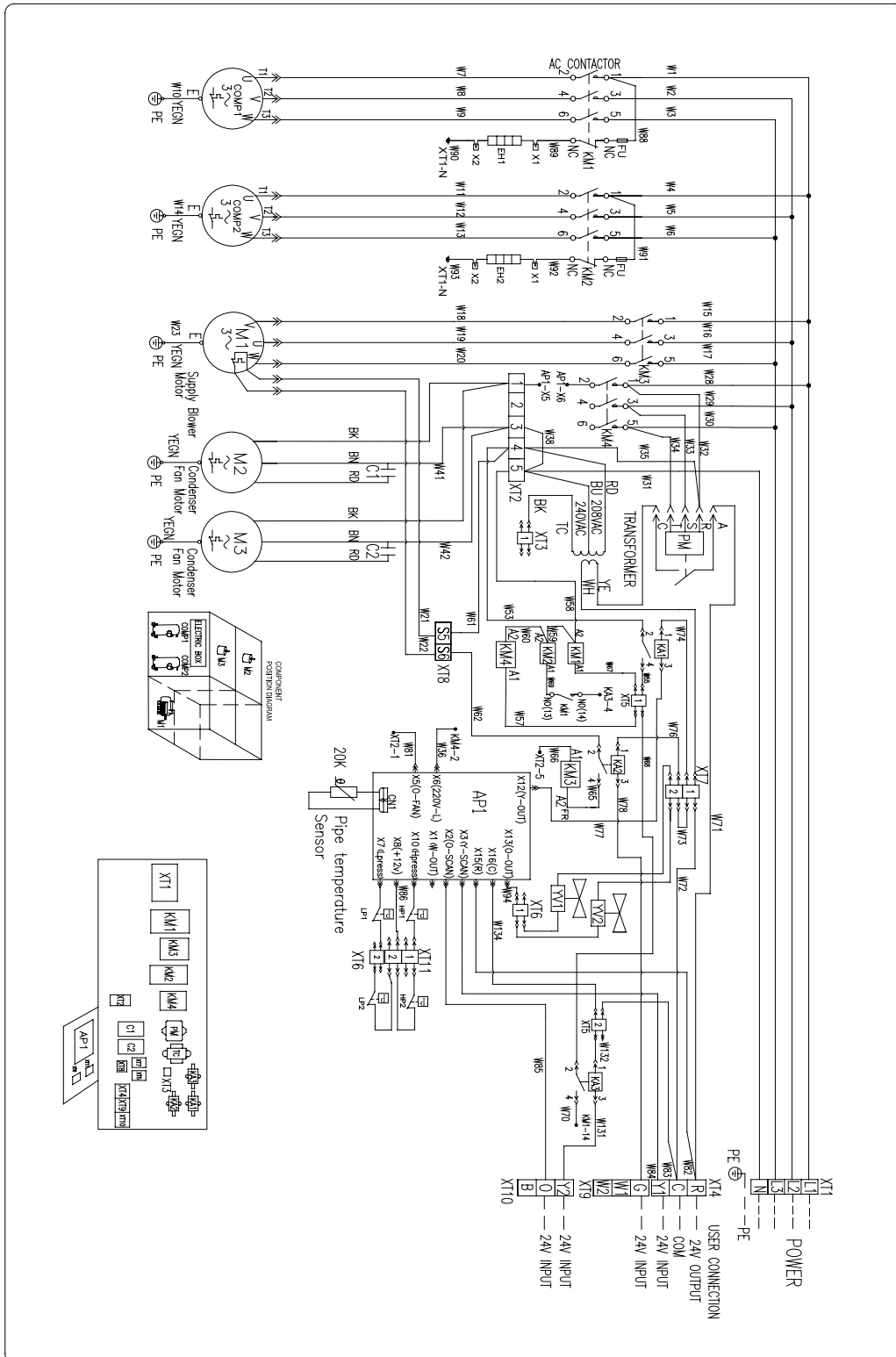
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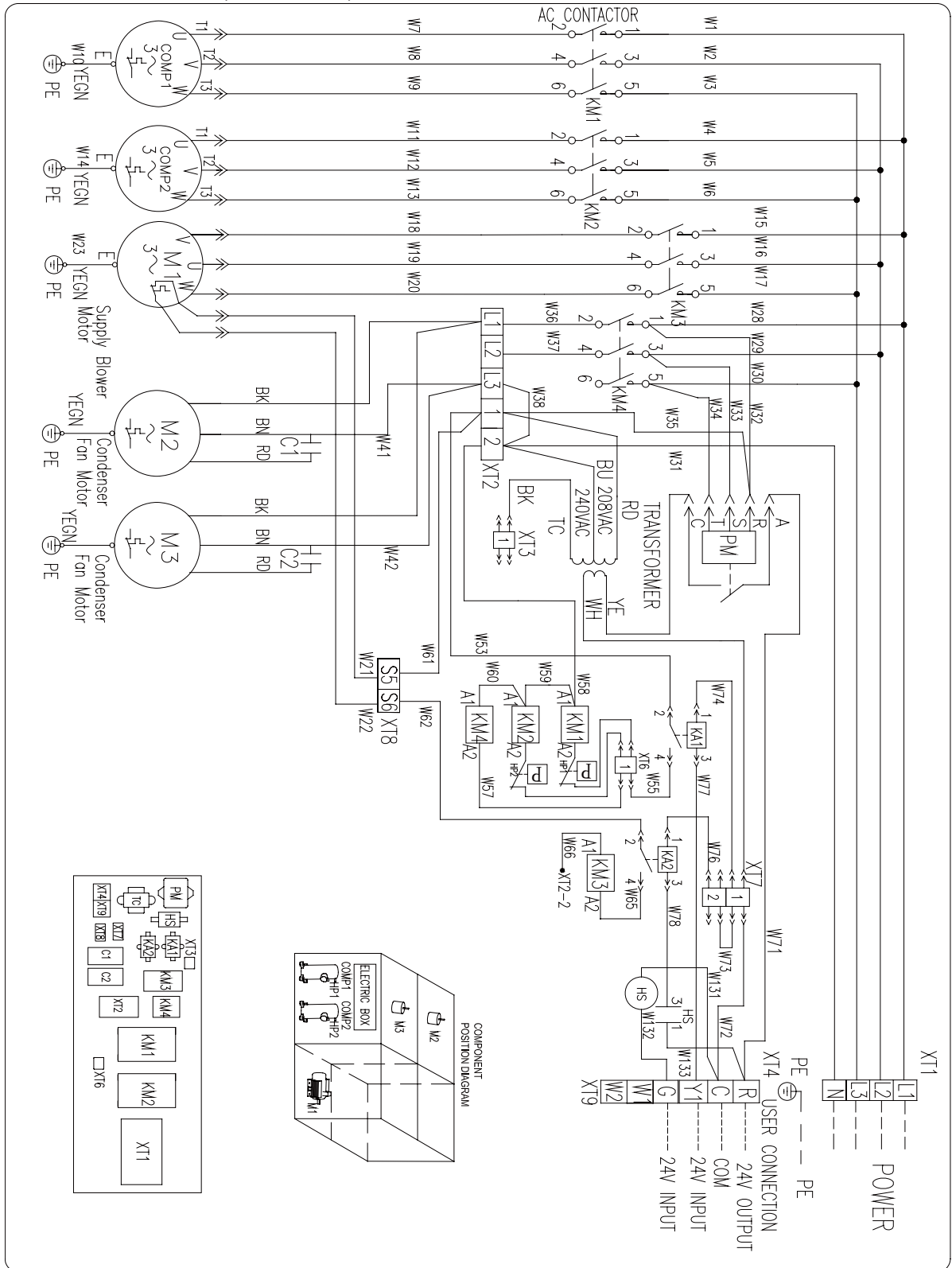
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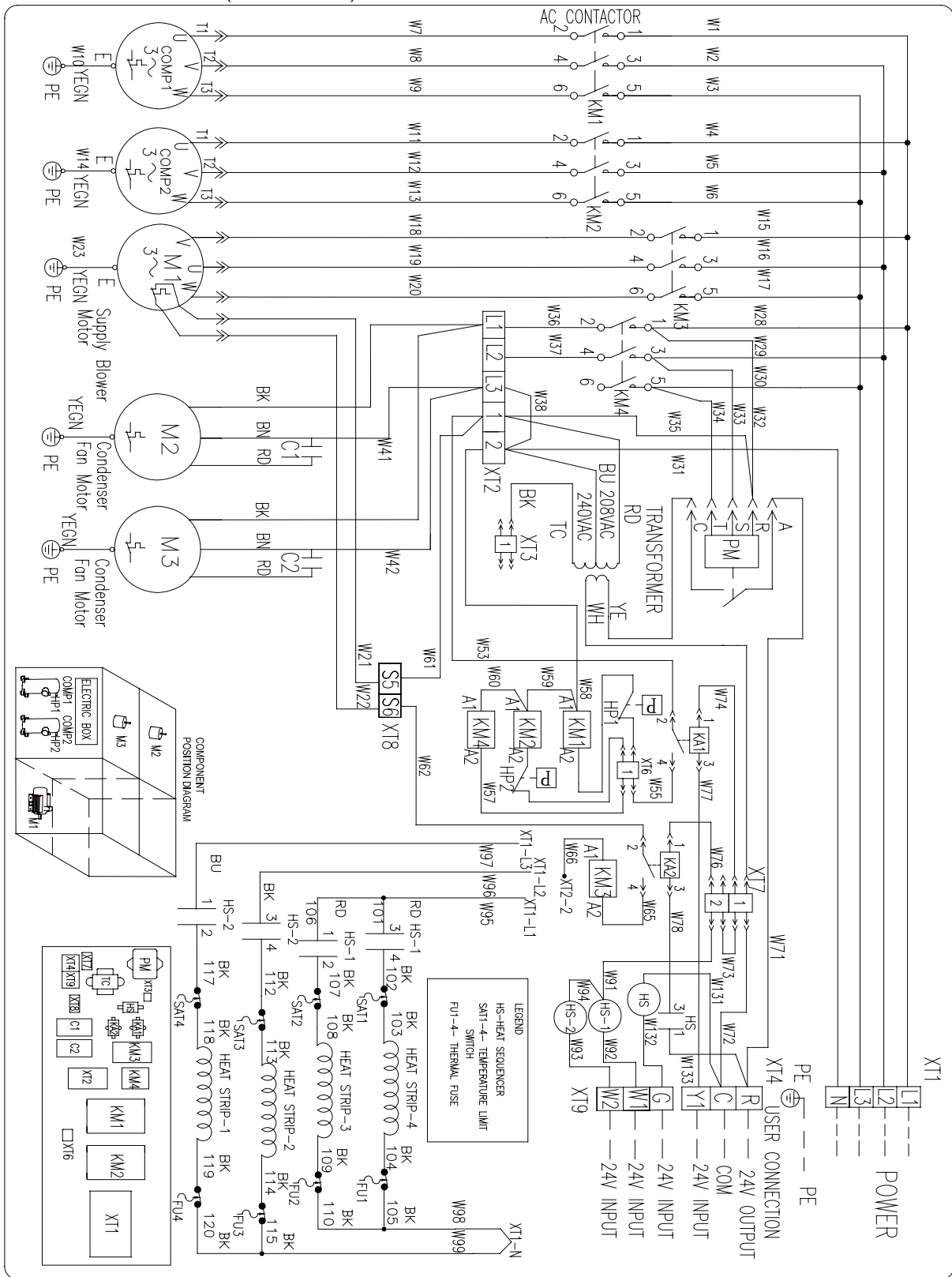
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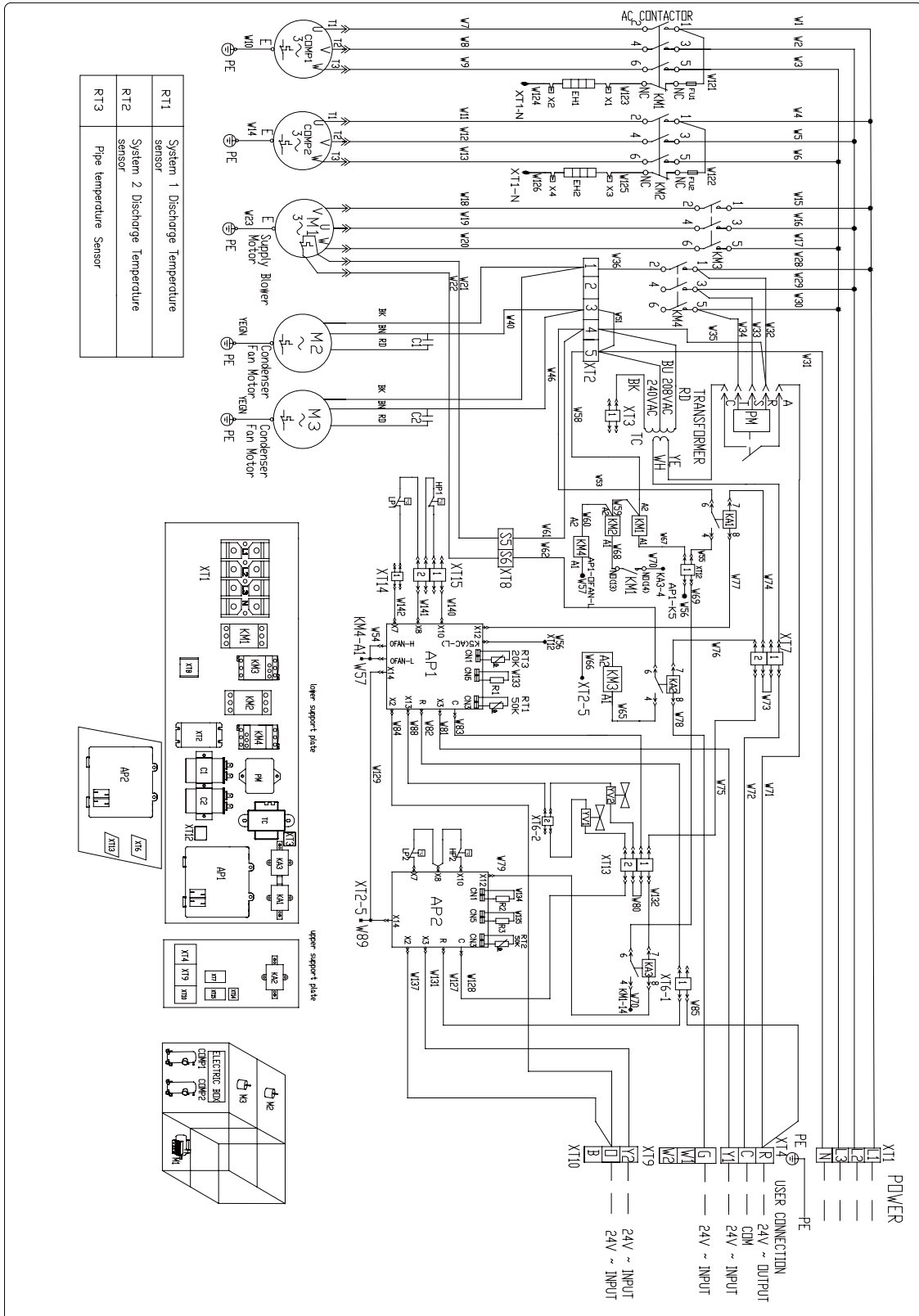
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Model: GK-C10TC1AM(EJ51000240)

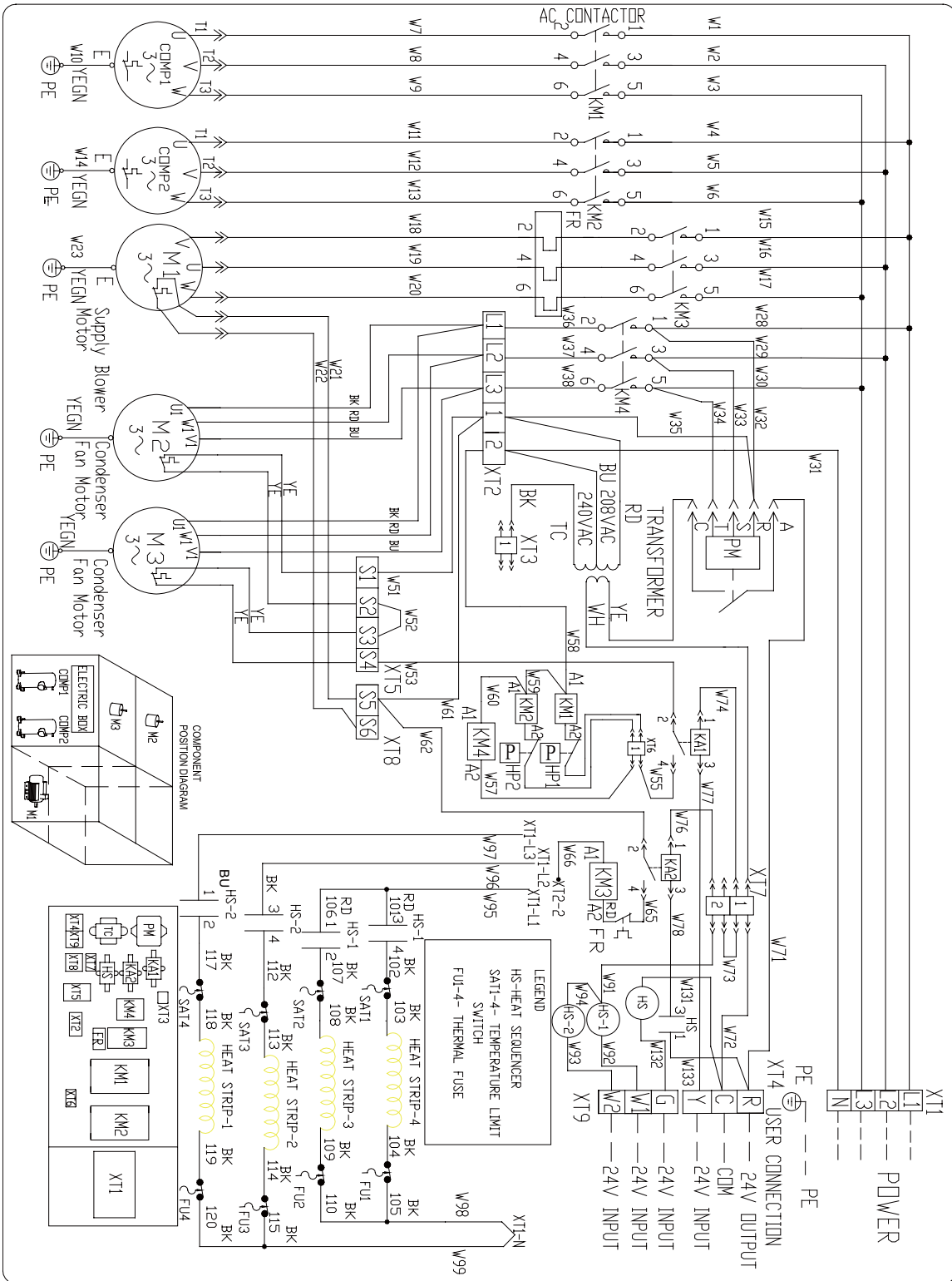


Model: GK-H10TC1AM



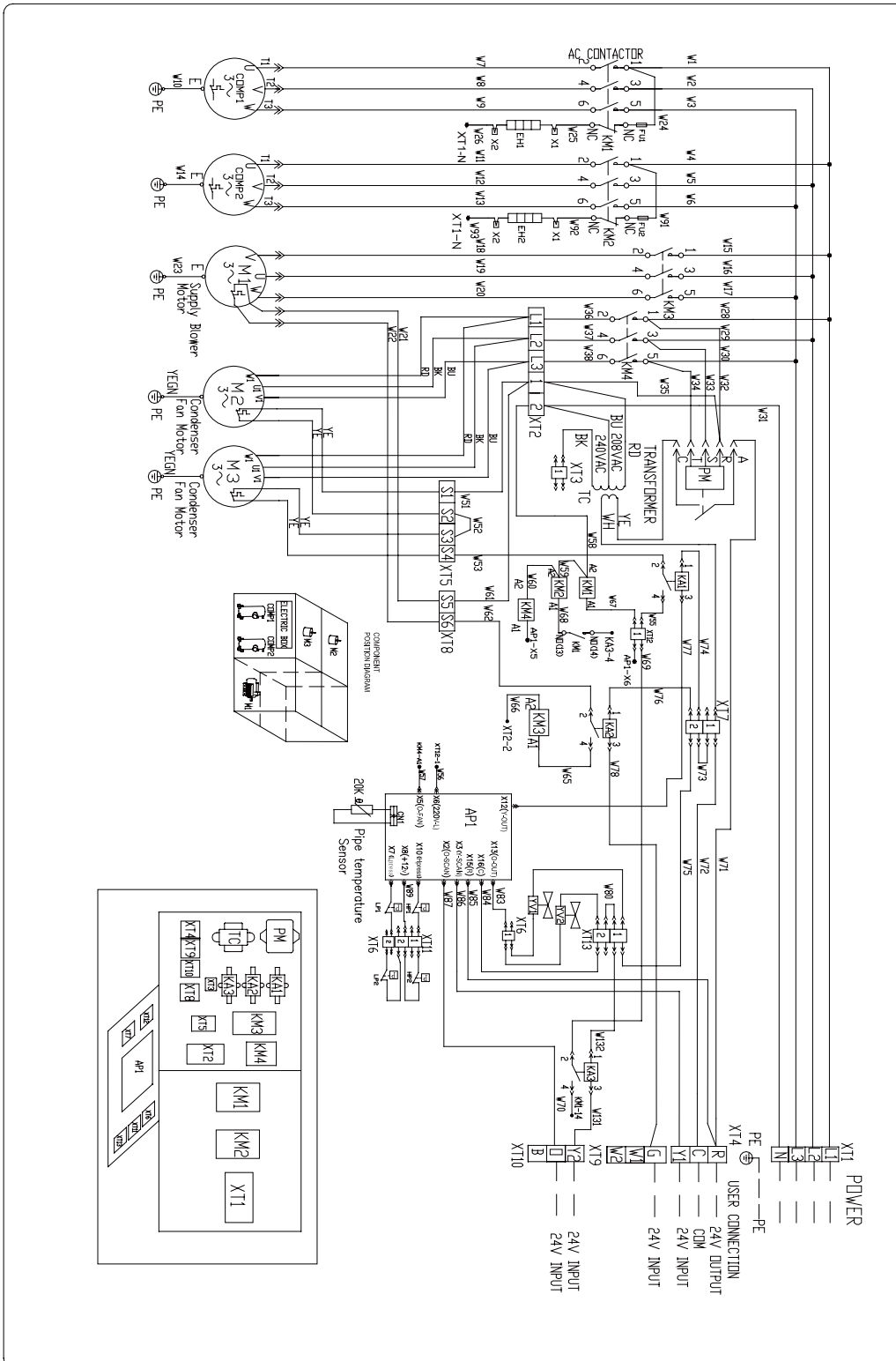
RT1	System 1 Discharge Temperature sensor
RT2	System 2 Discharge Temperature sensor
RT3	Pipe Temperature Sensor

Model: GK-C15TC1AM

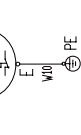
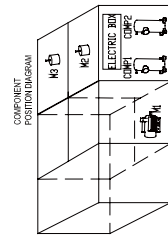
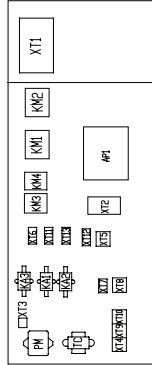
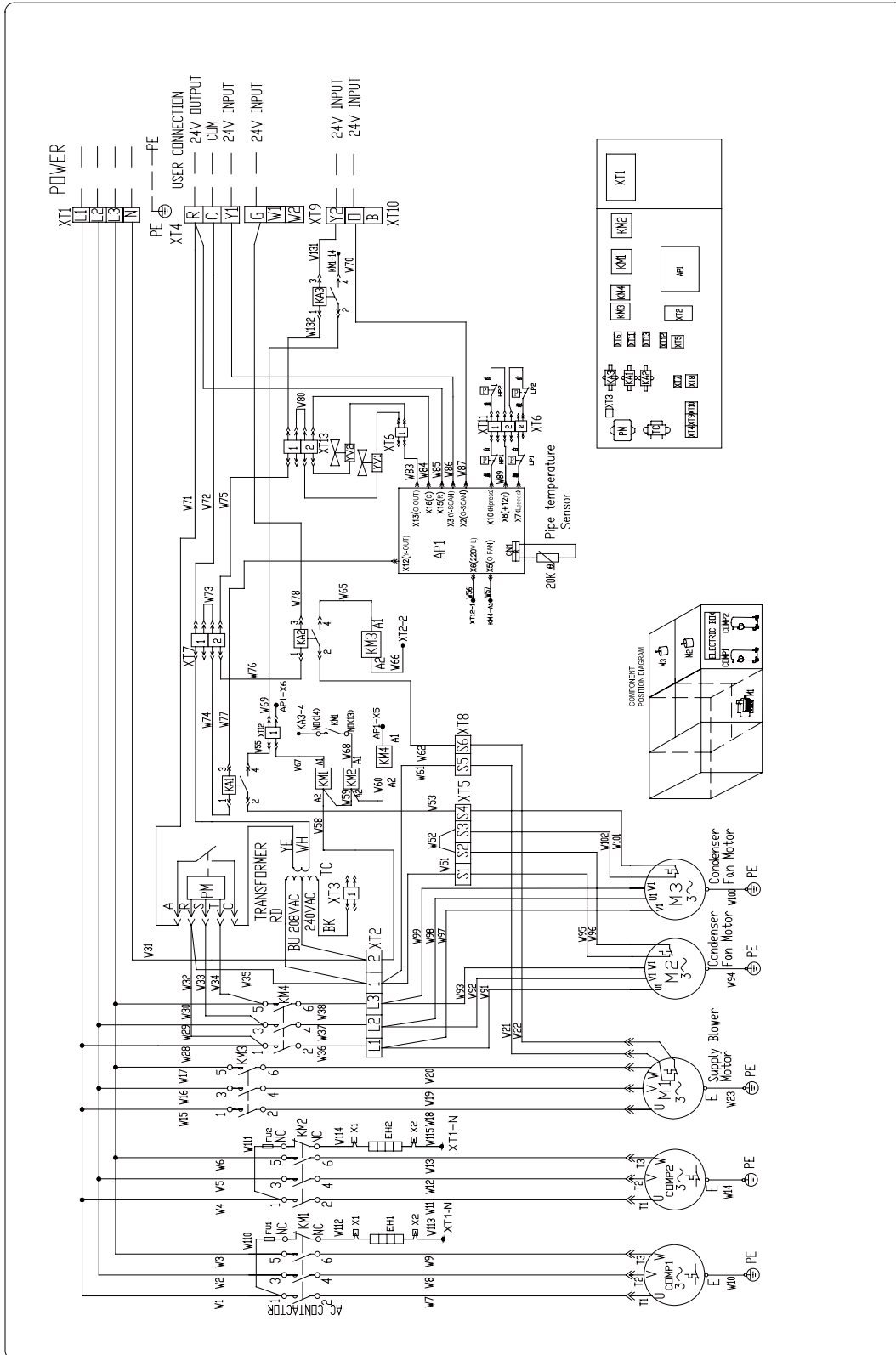




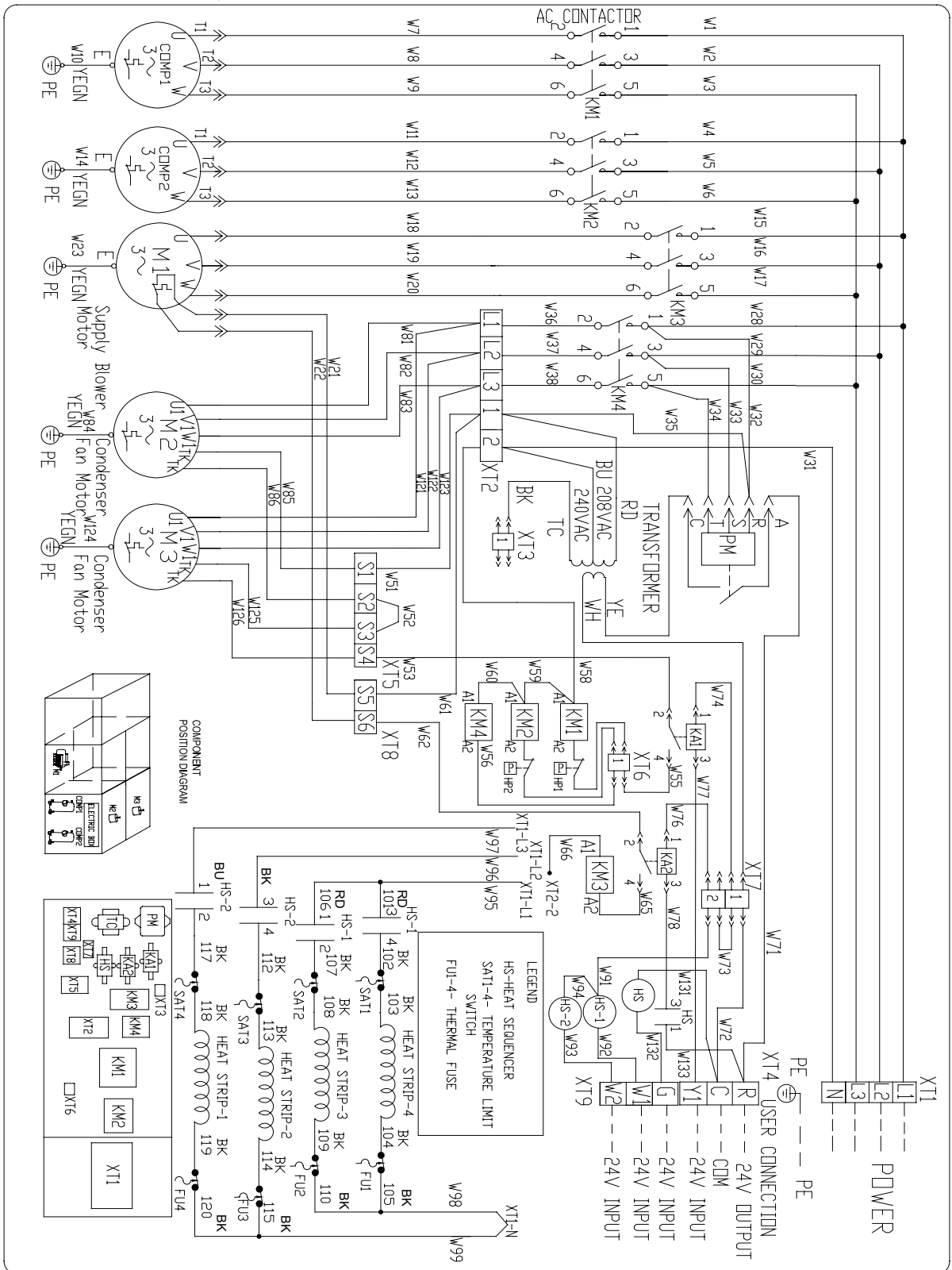
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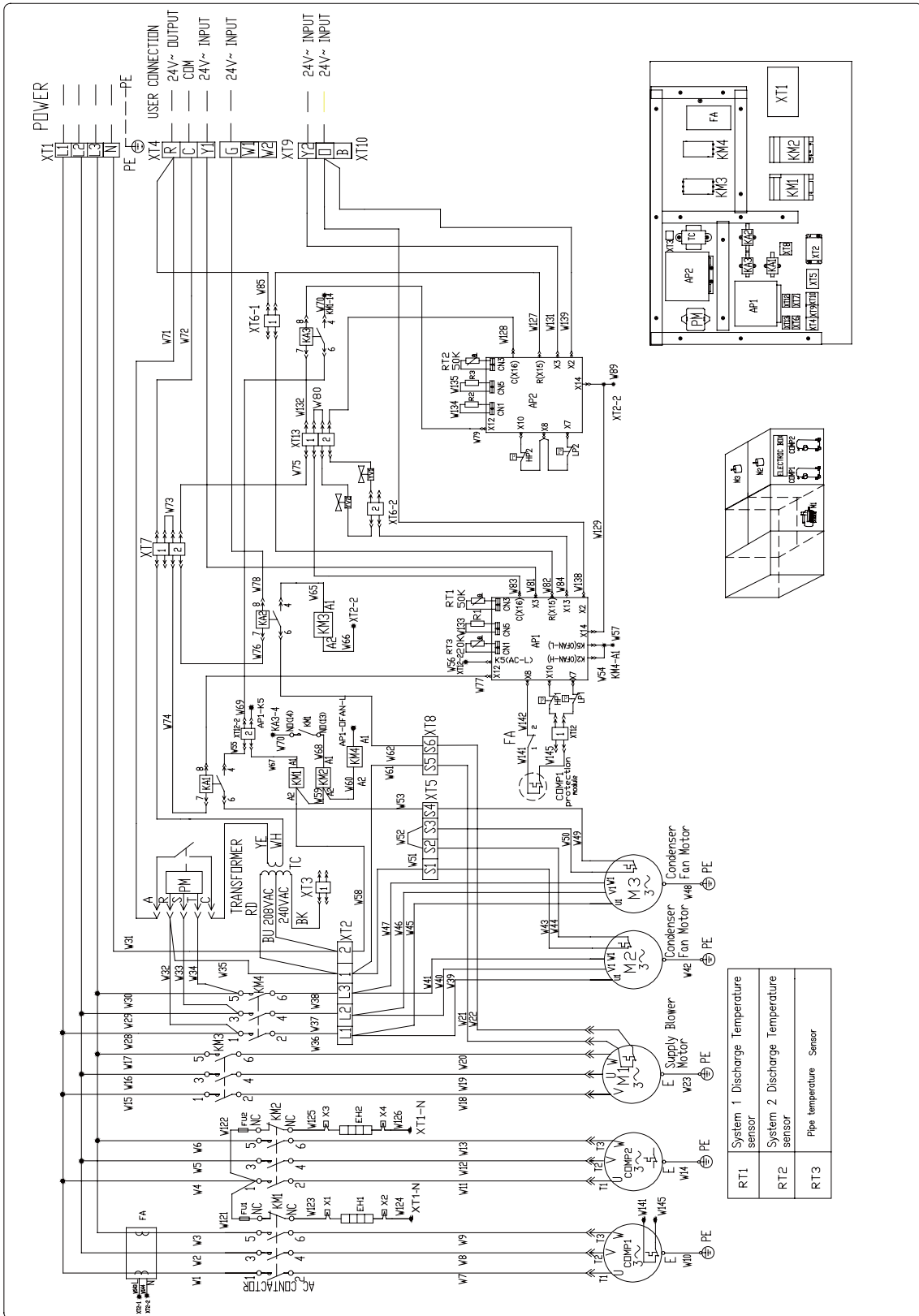
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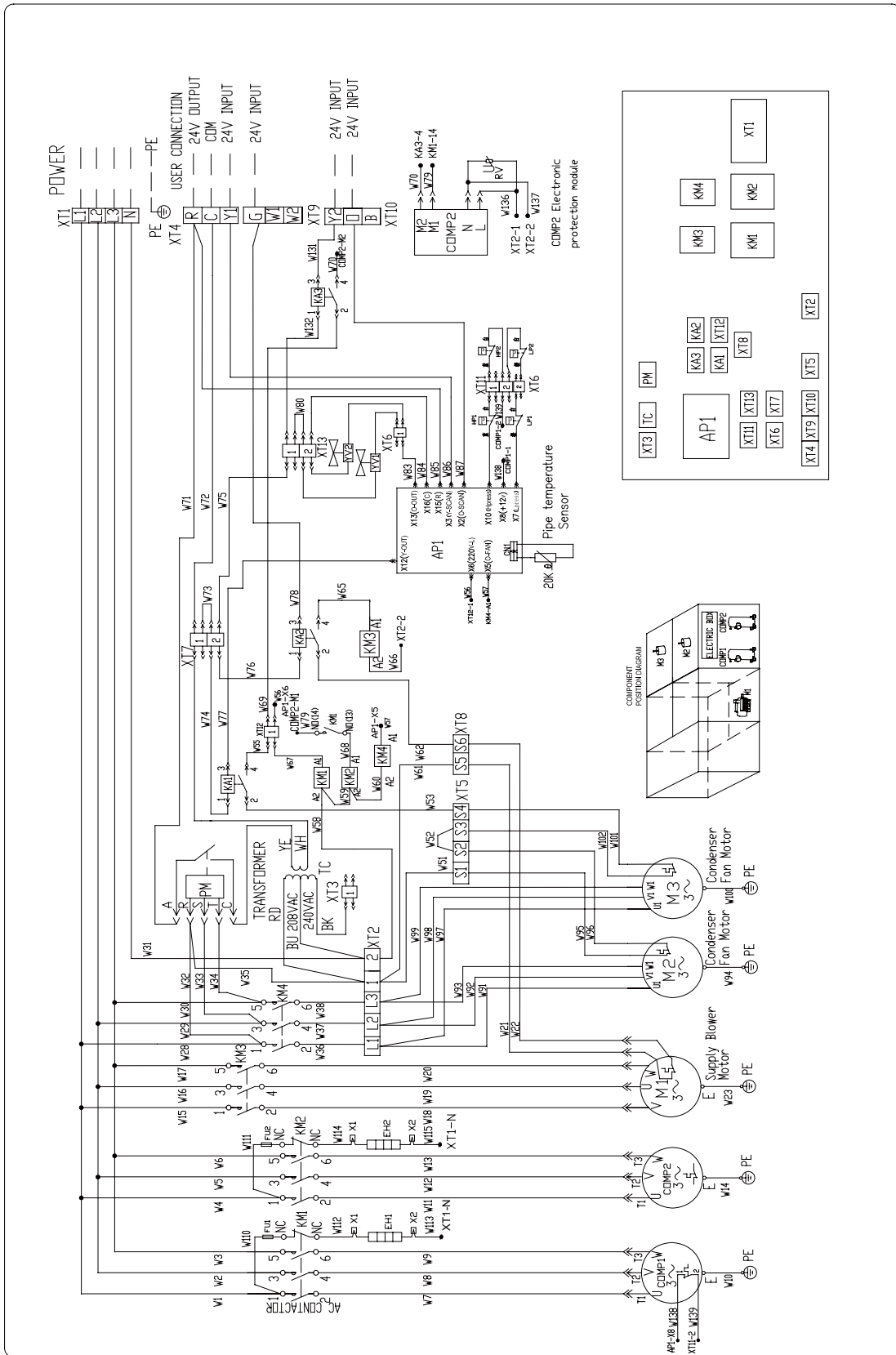
Model: GK-C20TC1AM; GK-C25TC1AM



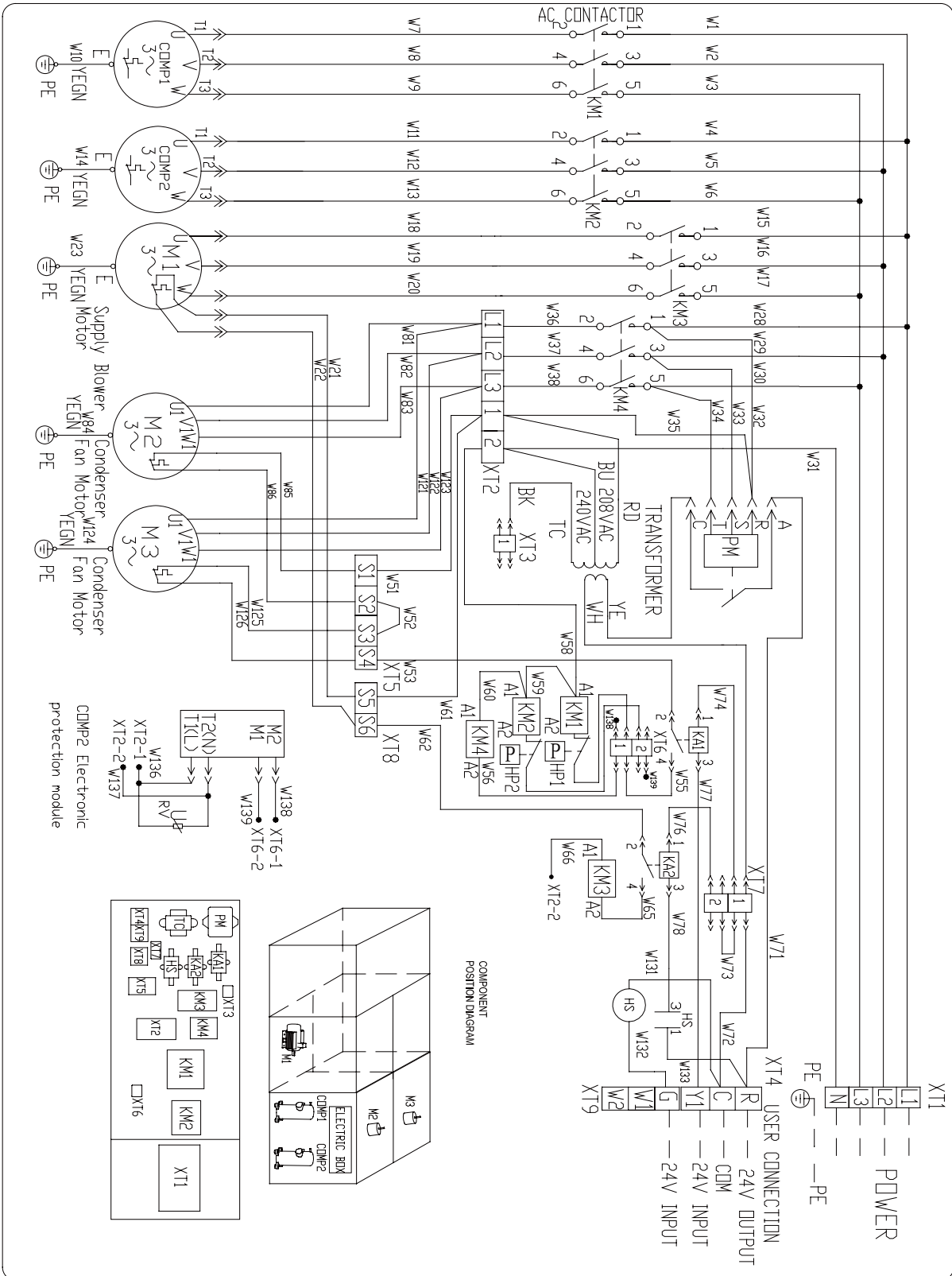
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Model: GK-H30TH1AM

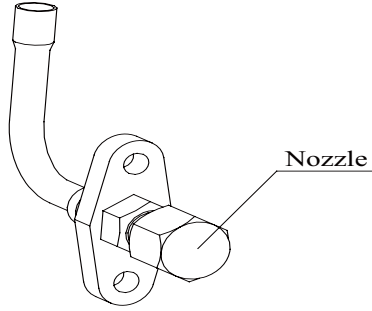
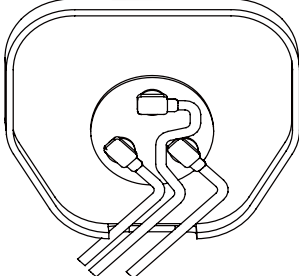
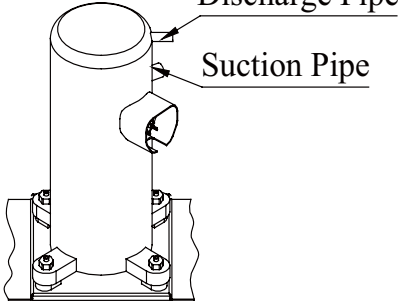
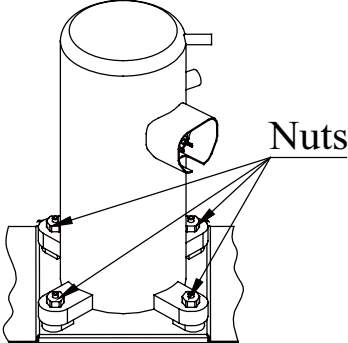


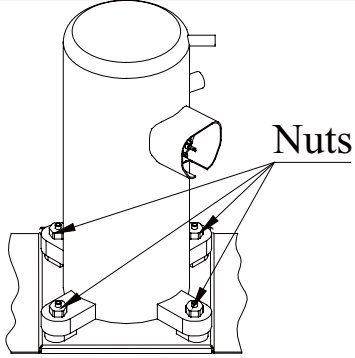
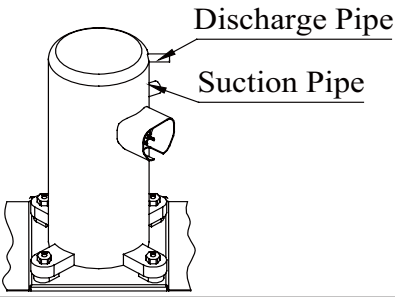
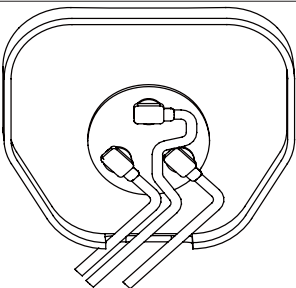
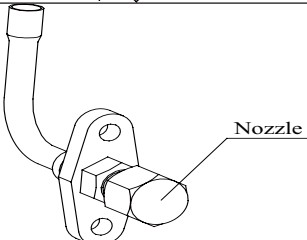
Model: GK-C30TC1AM



## 4 DISASSEMBLY AND ASSEMBLY PROCEDURE OF MAIN PARTS

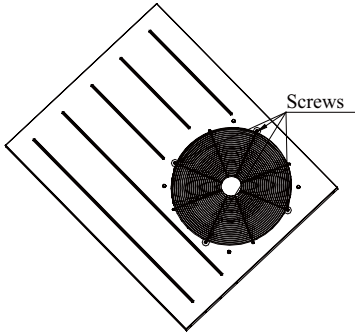
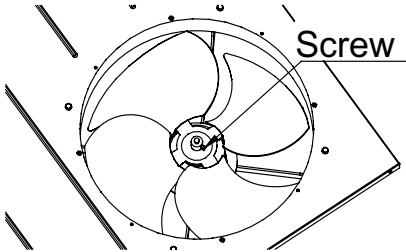
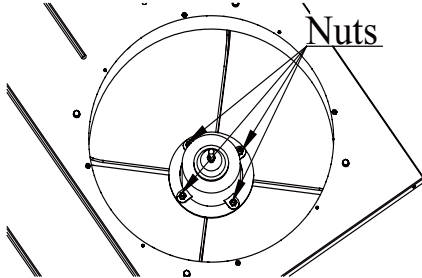
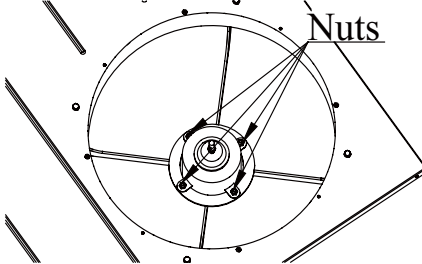
Apply to all units:

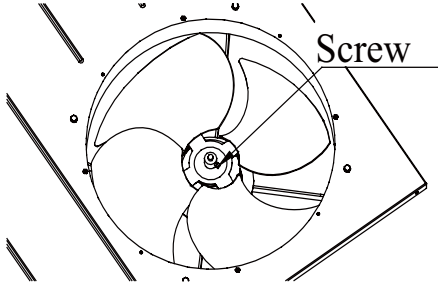
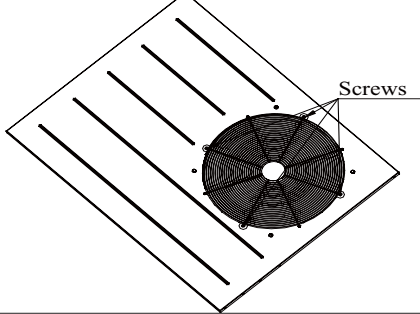
Disassembly and Assembly of Compressor		
<b>Remark:</b> Make sure there isn't any refrigerant in pipe system and the power supply is cut off before removal of the compressor.		
Process	Pictorial View	Handling Description
1.Recover refrigerant in the system.		<p>Connect vacuum recovery tank with nozzle for adding freon for recovery of refrigerant.</p> <p><b>Note:</b> Recovery work must be complete because refrigerant is badly hurtful to environment and animals.</p>
2.Disconnect the power cord.		<p>Pull out power cord or disconnect the power cord after unscrewing the screws.</p> <p><b>Note:</b> Earmark the colour of wire corresponding to the terminal when removing the wire to avoid mistakes when renewing wire connection.</p>
3.Cut off the connection between compressor and pipes.		<p>Heat the connection pipes indicated by arrows with fired heater and then draw out them.</p> <p><b>Note:</b> Pay attention to things around to avoid burning out.</p>
4.Take down the compressor from the base.		<p>Unscrew the nuts on compressor base with a wrench and then remove compressor from the base.</p> <p><b>Note:</b> Keep compressor level and vertically out. Never invert it.</p>

<p>5. Fix the compressor on to the base.</p>		<p>Put the repaired or new compressor on base as the direction during removing, and then screw down fixing nut on compressor base with a wrench. <b>Note:</b> Keep compressor level and vertically on to the base. Never incline or invert it.</p>
<p>6. Connect compressor with system pipes.</p>		<p>Heat the connection pipes indicated by arrows and then weld them with units pipes together. <b>Note:</b> Pay attention to things around to avoid burning out.</p>
<p>7. Reconnect power cord of compressor.</p>		<p>Reconnect the power cord into compressor according to the procedure of disconnecting power cord. The line connection must accord to the schematic diagram. <b>Note:</b> the connection box of compressor must be re-covered to resisting water. All cable can not contact the pipe and moving parts such as fan.</p>
<p>8. Recharge refrigerant.</p>		<p>Connect refrigerant tank with nozzle of low pressure (indicated by the maker) for recharging refrigerant. <b>Note:</b> Check the leak after finishing the connection pipes. Charge amount should be consistent with nameplate.</p>

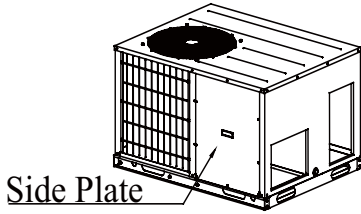
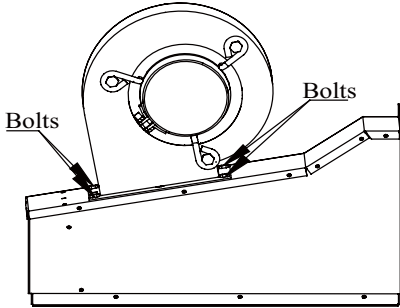
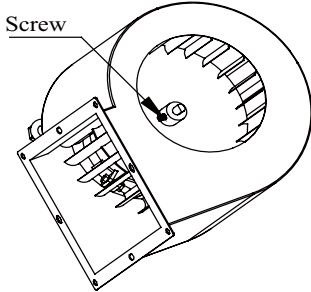
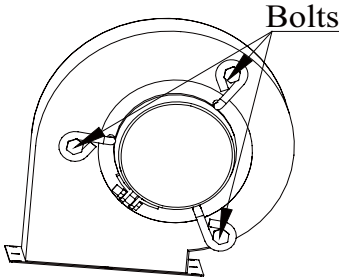
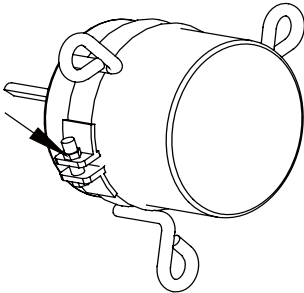


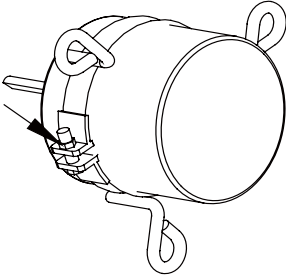
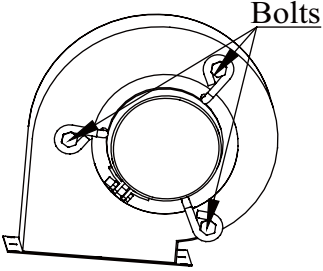
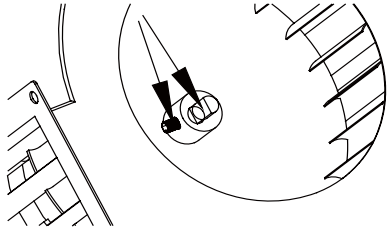
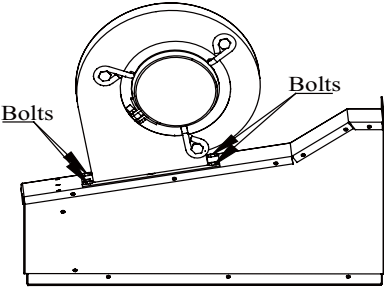
**Apply to all units:**

Disassembly and Assembly of Condenser Fan Motor		
<b>Remark:</b> Make sure that the unit is stopped running and power supply is cut off before removal of the motor.		
Process	Pictorial View	Handling Description
1. Disconnect the electrical source wire.		Disconnect all connection lines between motor and elements in electric box . Note: Please refer to the schematic diagram which adhered on electric box for disconnection of connection lines of condenser fan motor.
2. Take out the protection grill.		Unscrew the screws fixing grill (indicated by arrows) to take it out. Note: Please mark front or rear side of grill before disassembly to avoid improper re-installation.
3. Take out the fan blade.		Unscrew the screw (indicated by the arrow) fixing fan to take the fan out. Note: Fix fan blade when unscrew the holding bolt to avoid fan blade from rotating and thereby injury to people is caused.
4. Take down the motor from the bracket.		Remove the holding bolt of motor firstly and then remove motor from bracket. Note: Loosen power cord fixed by bundles before removing motor.
5. Fix the new motor on to the bracket.		Put the repaired or replaced motor onto brakcet as the direction during removing. Then screw down the holding bolt with a wrench. Note: Please keep the motor level and vertical during installation. After that, fix the power cord with bundles at original locations.

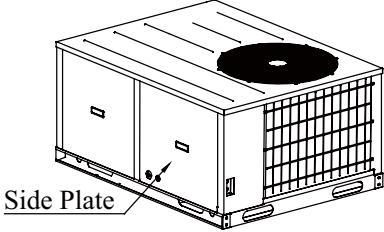
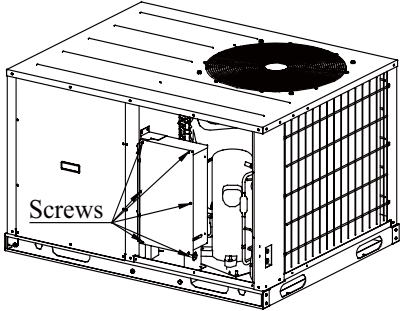
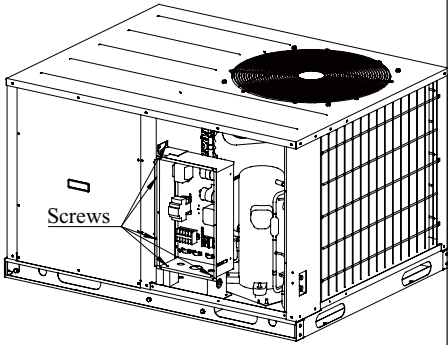
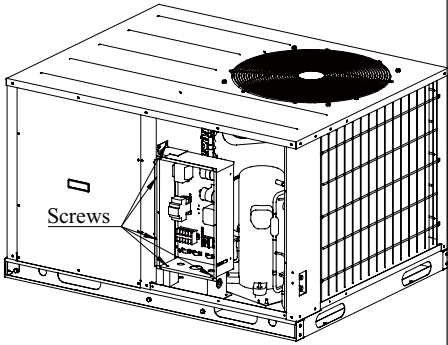
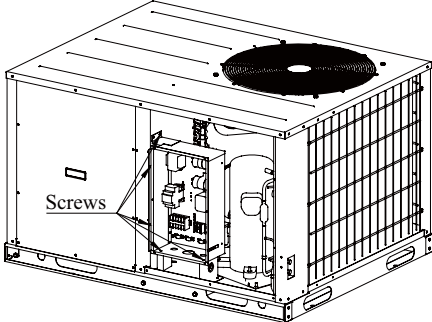
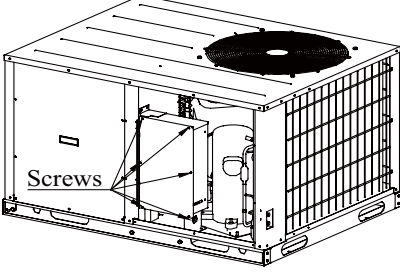
<p>6. Install and fix fan blade.</p>		<p>Re-install fan blade and screw down the holding bolt indicated by the arrow with a wrench          Note: Moment of force should be within 8-12N during screwing down bolt. After that, please charge glue into gap between bolt and hole to avoid loose of it.</p>
<p>7. Re-install protection grill nets.</p>		<p>Install the protection grill nets and then screw down the 4 holding screws (indicated by arrows).          Note: During installation of protection grill nets, please adjust it properly to avoid big gap between it and cover plate.</p>
<p>8. Re-connect power cord.</p>		<p>Re-connect power cord according to circuit mark adhered on electric box.          Note: After connection, arrange leading wires and refix them with bundles at original locations. Close the cover plate of electric box hermetically. All cable can not contact the pipe and moving parts such as fan.</p>

**Apply to 3, 4, 5Ton:**

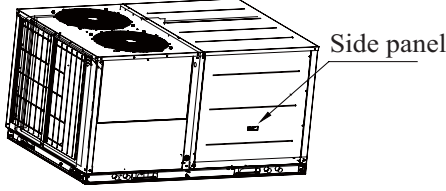
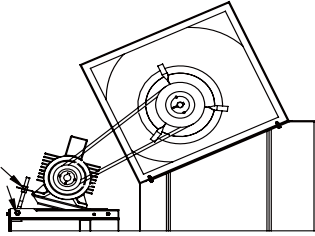
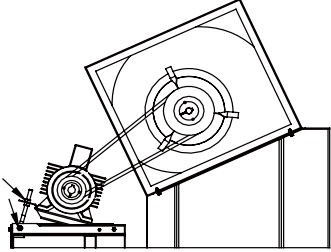
Disassembly and Assembly of Supply Blower Motor		
Remark: Make sure that the unit is stopped running and power supply is cut off before removal of the motor.		
Process	Pictorial View	Handling Description
1. Take out the side plate.		Unscrew the screws fixing side plate .Lift the handles,slightly pulling it outwards and downwards to take out the side plate.
2. Disconnect all connection lines.		Disconnect all connection lines between motor and elements in electric box . Note:Please refer to the schematic diagram which adhered on electric box for disconnection of connection lines of supply blower motor.
3. Disassemble the whole fan sub-assy.		Pull the power cord of motor through rubber ring to indoor. Unscrew the bolts fixing fan sub-assy (indicated by the arrows) ,and then take the fan sub-assy out. Note: Power cord may be fixed by bundles,so loose the bundles before pulling power cord to indoor.
4. Loose connection between fan rotor shaft and fan blade.		Unscrew the holding screw of fan (indicated by the arrows) to loose connection between motor shaft and fan. Note: Fix fan blade when unscrewing holding nut of fan blade to avoid blade from rotating and thereby injury to people is caused.
5. Remove the motor and bracket sub-assy.		Unscrew fixed bolts of motor (indicated by the arrow) and then remove motor and bracket. Note: Please mark relative installation location between motor and fan to ensure enough length of motors power cord from electric box after re-installation.
6. Take down the motor.		Unscrew holding bolt(indicated by the arrow) of motor bracket with a wrench to separate motor and bracket. Note: Please mark relative installation location between motor bracket and motor before disassembly of motor to avoid installation mistake upon re-installation of motor.

<p>7. Fix the motor on to the bracket.</p>		<p>Re-assemble repaired or replaced motor and bracket. Installation direction is the same as that during disassembly. Then screw down the holding bolt with a wrench.</p>
<p>8. Re-install fan and bracket sub-assy.</p>		<p>Re-install motor and bracket sub-assy and then screw down the holding bolt indicated by the arrow with a wrench. <b>Note:</b> During assembly, align holding the level of motors rotating shaft with the hole site on fan blade for convenient adjustment during screwing.</p>
<p>9. Tighten fan blade.</p>		<p>Align the level of motors rotating shaft with the screws indicated by the arrows and then screw down the screws. <b>Note:</b> Please charge glue into gap between bolt and hole to avoid loose of it.</p>
<p>10. Re-install fan sub-assy.</p>		<p>Re-install the whole fan sub-assy and then fix the 4 holding bolts indicated by arrows with a wrench.</p>
<p>11. Re-connect power cord.</p>		<p>Re-connect power cord according to wiring diagram adhered on electric box. <b>Note:</b> After connection, arrange leading wires and refix them with bundles at original locations. All cable can not contact the pipe and moving parts such as fan. Close the cover plate of electric box hermetically.</p>

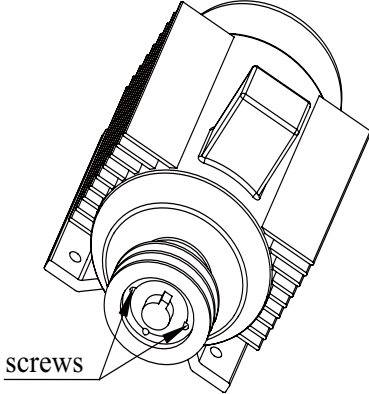
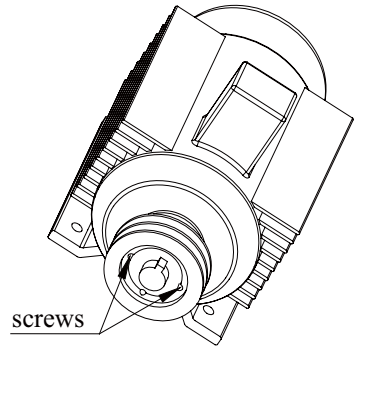
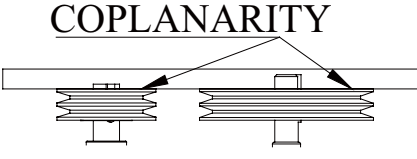
Apply to 3, 4, 5Ton:

Disassembly and Assembly of Electric Box		
Remark: Make sure that the unit is stopped running and power supply is cut off before removal		
Process	Pictorial View	Handling Description
1. Take down the side plate		Unscrew the screws fixing side plate. Lift the handles,slightly pulling it outwards and downwards to take out the side plate.
2. Take out the electric box cover.		Unscrew the screws fixing cover (indicated by the arrows).Then take out the cover.
3. Disconnect all connection lines.		Disconnect all connection lines between exterior electric component and elements in electric box . Note: Please refer to the schematic diagram which adhered on electric box for disconnection of connection lines of motor.
4. Take down the electric box .		Unscrew the screws (indicated by the arrows),and then take down the electric box. Note: Power cord may be fixed by bundles,so loose the bundles before taking out the electric box.
5. Re-install the electric box .		Put the electric box back and tighten the screws. Then reconnect all connection lines that had been take down,and refix the Power cord with bundles at original locations. Note: The line connection must accord to the schematic diagram. All cable can not contact the pipe and moving parts such as fan.
6. Re-install electric box cover and side plate.		Put the electric box cover plate back and tighten the screws. Then put the side plate back and tighten the screws. Note: The electric box cover should be setting hermetically.

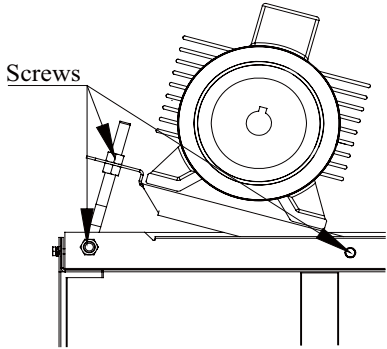
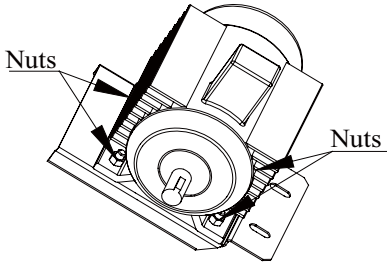
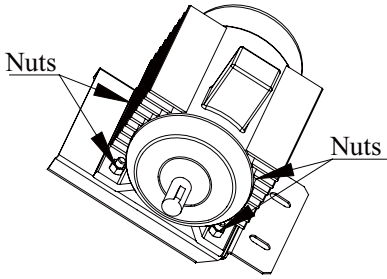
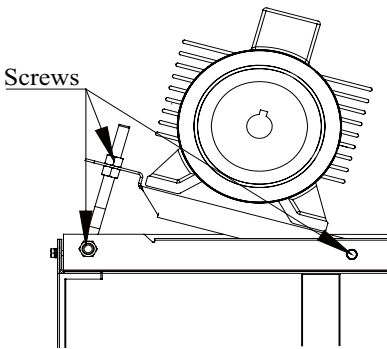
**Apply to 8, 10, 13, 15Ton:**

Disassembly and Assembly of Belt		
Remark: Make sure that the unit is stopped running and power supply is cut off before removal of the motor.		
Process	Pictorial View	Handling Description
1. Take out the side plate.		Unscrew the screws fixing side plate .Lift the handles,slightly pulling it outwards and downwards to take out the side plate.
2. Take out the belt.		Unscrew position control bolts of motors bracket (indicated by the arrows) to adjust distance between belt pulleys to loosen the belt and take it out.
3. Re-install the belt		Unscrew position control bolts of motors bracket (indicated by the arrows) to adjust distance between belt pulleys to re-install the belt. Note: Adjust the tightness level of belt. Refer to "INSTALLATION" chapter "1.2.5 Adjust the tightness of the belt" for information about that.

Apply to 8, 10, 13, 15Ton:

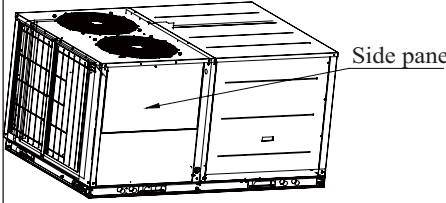
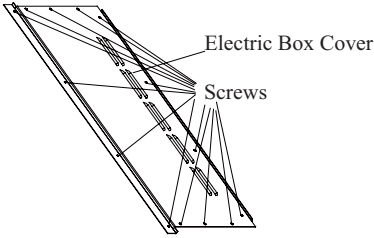
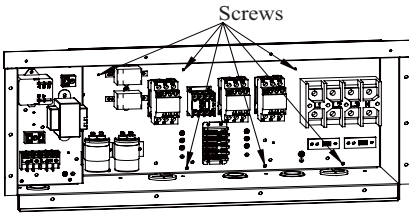
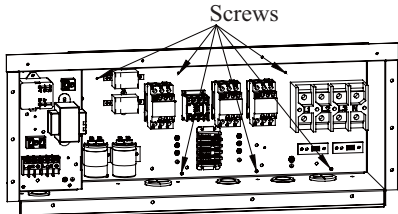
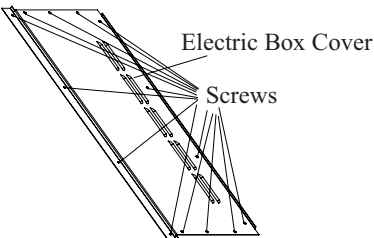
Disassembly and Assembly of belt pulley		
<b>Remark:</b> Make sure that the unit is stopped running and power supply is cut off before removal of the motor.		
Process	Pictorial View	Handling Description
1. Take down the belt.		Please refer to the content of "Disassembly and Assembly of belt"
2. Separate the belt pulley and taper sleeve		Anticlockwise screw the 2 bolts indicated by arrows with inner hexagon wrench, and then clockwise screw down the other bolt. Make belt pulleys close to motor and separate it from taper sleeve.
3. Take out the belt pulley and taper sleeve.		Take out the taper sleeve with straight slot screwdriver, and then the belt pulley. <b>Note:</b> The sleeve has taper, so belt pulleys must be taken out after it.
4. Re-install the belt pulley and taper sleeve.	  	Put belt pulleys onto shaft and then put taper sleeve. After that, cover the belt pulleys onto taper sleeve. Clockwise screw down the 3 bolts. <b>Note:</b> The sleeve has taper, so belt pulleys must be installed first. Ensure the coplanarity of belt pulleys, and adjust the tightness level of belt.
5. Re-install the belt.		Please refer to the content of "Disassembly and Assembly of belt"

**Apply to 8, 10, 13, 15Ton:**

Disassembly and Assembly of Supply Blower Motor		
Remark: Make sure that the unit is stopped running and power supply is cut off before removal of the motor.		
Process	Pictorial View	Handling Description
1. Disconnect all connection lines.		Disconnect all connection lines between motor and elements in electric box . Note: Please refer to the schematic diagram which adhered on electric box for disconnection of connection lines of supply blower motor.
2. Take out belt,belt pulley and taper sleeve		Please refer to the content of "Disassembly and Assembly of belt" and "Disassembly and Assembly of belt pulley"
3. Take out motor and bracket sub-assy		Unscrew all screws fixing fans bracket (indicated by the arrows),and then disassemble motor and bracket. Note: Power cord may be fixed by bundles,so loose the bundles before pulling power cord to air box side.
4. Take down the motor.		Unscrew the nuts (indicated by arrows) to loosen the connection between motor and bracket.
5. Re-install the motor.		Re-assemble repaired or replaced motor. Installation direction is the same as that during disassembly. Then screw down the holding bolts with a wrench.
6. Re-install motor and bracket sub-assy		During installation,screw the bolts indicated by arrows,but not screw them too tightly ,so that the distance between belt pulleys can be adjusted during installation of belt .
7. Re-install belt,belt pulley and taper sleeve.		Please refer to the content of "Disassembly and Assembly of belt" and "Disassembly and Assembly of belt pulley"

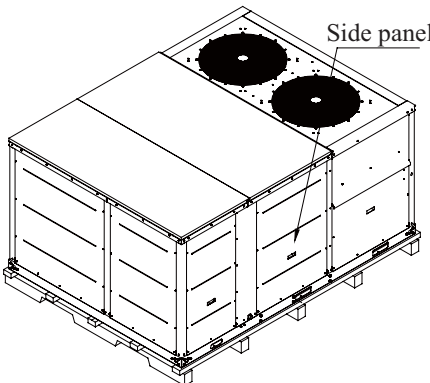
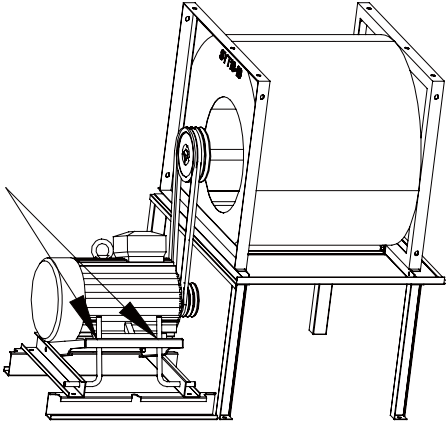
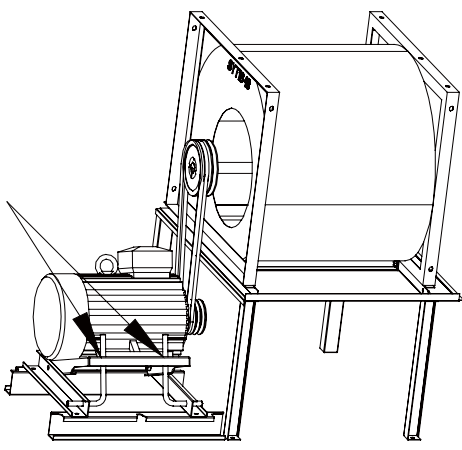


Apply to 8, 10, 13, 15Ton:

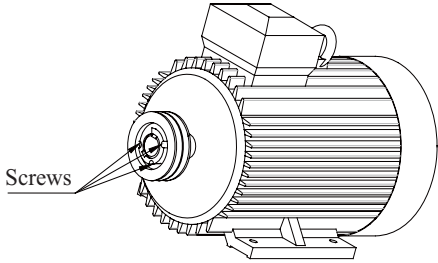
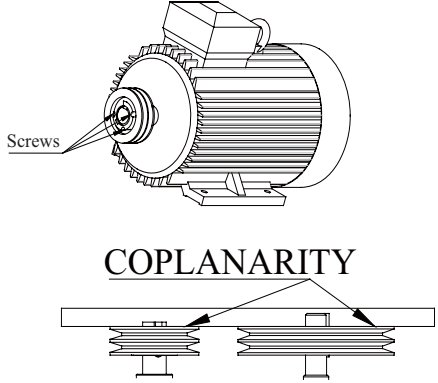
Disassembly and Assembly of Electric Box		
Remark: Make sure that the unit is stopped running and power supply is cut off before removal		
Process	Pictorial View	Handling Description
1. Take out the side panel		Unscrew the screws fixing side plate .
2. Take out the electric box cover plate		Unscrew the screws fixing cover (indicated by circles) .Lift the handles,slightly pulling it outwards and downwards to take out the cover.
3. Disconnect all connection lines.		Disconnect all connection lines between exterior electric component and elements in electric box . Note: Please refer to the schematic diagram which adhered on electric box for disconnection of connection lines of motor.
4. Take down the electric box.		Unscrew the screws (indicated by the arrows),and then take out the electric box. Note: Power cord may be fixed by bundles,so loose the bundles before taking out the electric box.
5. Re-install the electric box.		Put the electric box back and tighten the screws. Then reconnect all connection lines that had been take down,and refix the Power cord with bundles at original locations. Note: The line connection must accord to the schematic diagram. All cable can not contact the pipe and moving parts such as fan.
6. Re-install the electric box cover plate.		Put the electric box cover plate back and tighten the screws.

**NOTE:** Above diagrams may be different from actual model.

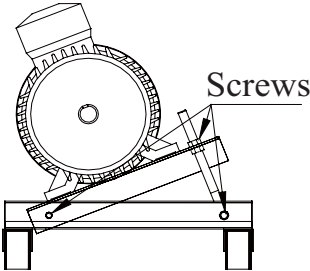
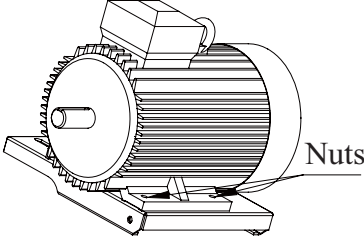
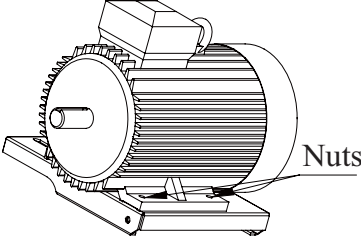
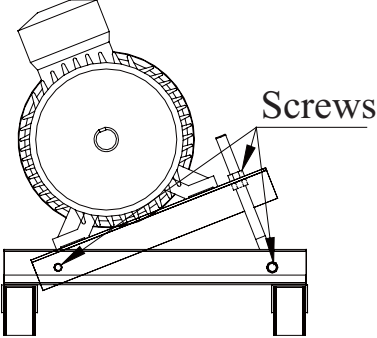
**Apply to 20, 25, 30Ton:**

Disassembly and Assembly of Belt		
Remark: Make sure that the unit is stopped running and power supply is cut off before removal of the motor.		
Process	Pictorial View	Handling Description
1. Take out the side plate.		<p>Unscrew the screws fixing side plate .Lift the handles,slightly pulling it outwards and downwards to take out the side plate.</p>
2. Take out the belt.		<p>Unscrew position control bolts of motors bracket (indicated by the arrows) to adjust distance between belt pulleys to loosen the belt and take it out.</p>
3. Re-install the belt		<p>Unscrew position control bolts of motors bracket (indicated by the arrows) to adjust distance between belt pulleys to re-install the belt. Note: Adjust the tightness level of belt. Refer to "INSTALLATION" chapter "1.2.5 Adjust the tightness of the belt" for information about that.</p>

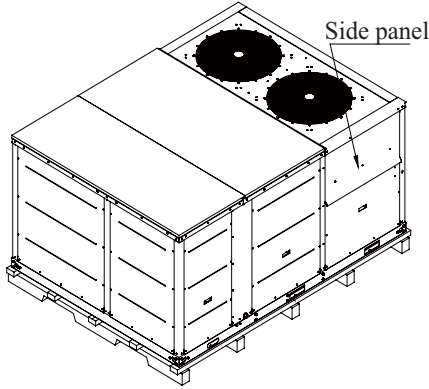
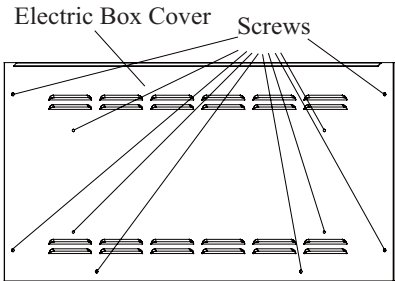
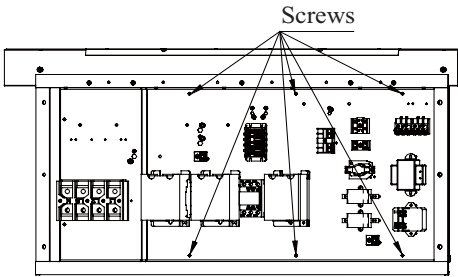
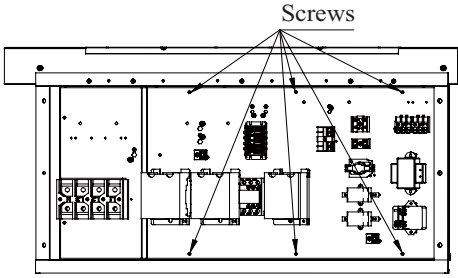
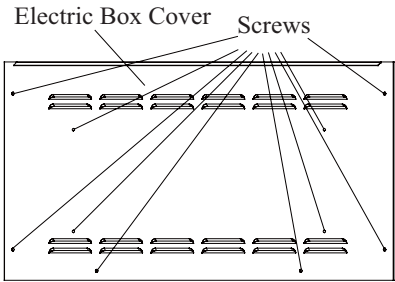
**Apply to 20, 25, 30Ton:**

Disassembly and Assembly of belt pulley		
Remark: Make sure that the unit is stopped running and power supply is cut off before removal of the motor.		
Process	Pictorial View	Handling Description
1. Take down the belt.		Please refer to the content of "Disassembly and Assembly of belt"
2. Separate the belt pulley and taper sleeve		Anticlockwise screw the 2 bolts indicated by arrows with inner hexagon wrench, and then clockwise screw down the other bolt. Make belt pulleys close to motor and separate it from taper sleeve.
3. Take out the belt pulley and taper sleeve.		Take out the taper sleeve with straight slot screwdriver, and then the belt pulley. Note: The sleeve has taper, so belt pulleys must be taken out after it.
4. Re-install the belt pulley and taper sleeve.		Put belt pulleys onto shaft and then put taper sleeve. After that, cover the belt pulleys onto taper sleeve. Clockwise screw down the 3 bolts. Note: The sleeve has taper, so belt pulleys must be installed first. Ensure the coplanarity of belt pulleys, and adjust the tightness level of belt.
5. Re-install the belt.		Please refer to the content of "Disassembly and Assembly of belt"

**Apply to 20, 25, 30Ton:**

Disassembly and Assembly of Supply Blower Motor		
Remark: Make sure that the unit is stopped running and power supply is cut off before removal of the motor.		
Process	Pictorial View	Handling Description
1. Disconnect all connection lines.		Disconnect all connection lines between motor and elements in electric box . Note: Please refer to the schematic diagram which adhered on electric box for disconnection of connection lines of supply blower motor.
2. Take out belt,belt pulley and taper sleeve		Please refer to the content of "Disassembly and Assembly of belt" and "Disassembly and Assembly of belt pulley"
3. Take out motor and bracket sub-assy		Unscrew all screws fixing fans bracket (indicated by the arrows),and then disassemble motor and bracket. Note: Power cord may be fixed by bundles,so loose the bundles before pulling power cord to air box side.
4. Take down the motor.		Unscrew the nuts (indicated by arrows) to loosen the connection between motor and bracket.
5. Re-install the motor.		Re-assemble repaired or replaced motor. Installation direction is the same as that during disassembly. Then screw down the holding bolts with a wrench.
6. Re-install motor and bracket sub-assy		During installation,screw the bolts indicated by arrows,but not screw them too tightly ,so that the distance between belt pulleys can be adjusted during installation of belt .
7. Re-install belt,belt pulley and taper sleeve.		Please refer to the content of "Disassembly and Assembly of belt" and "Disassembly and Assembly of belt pulley"

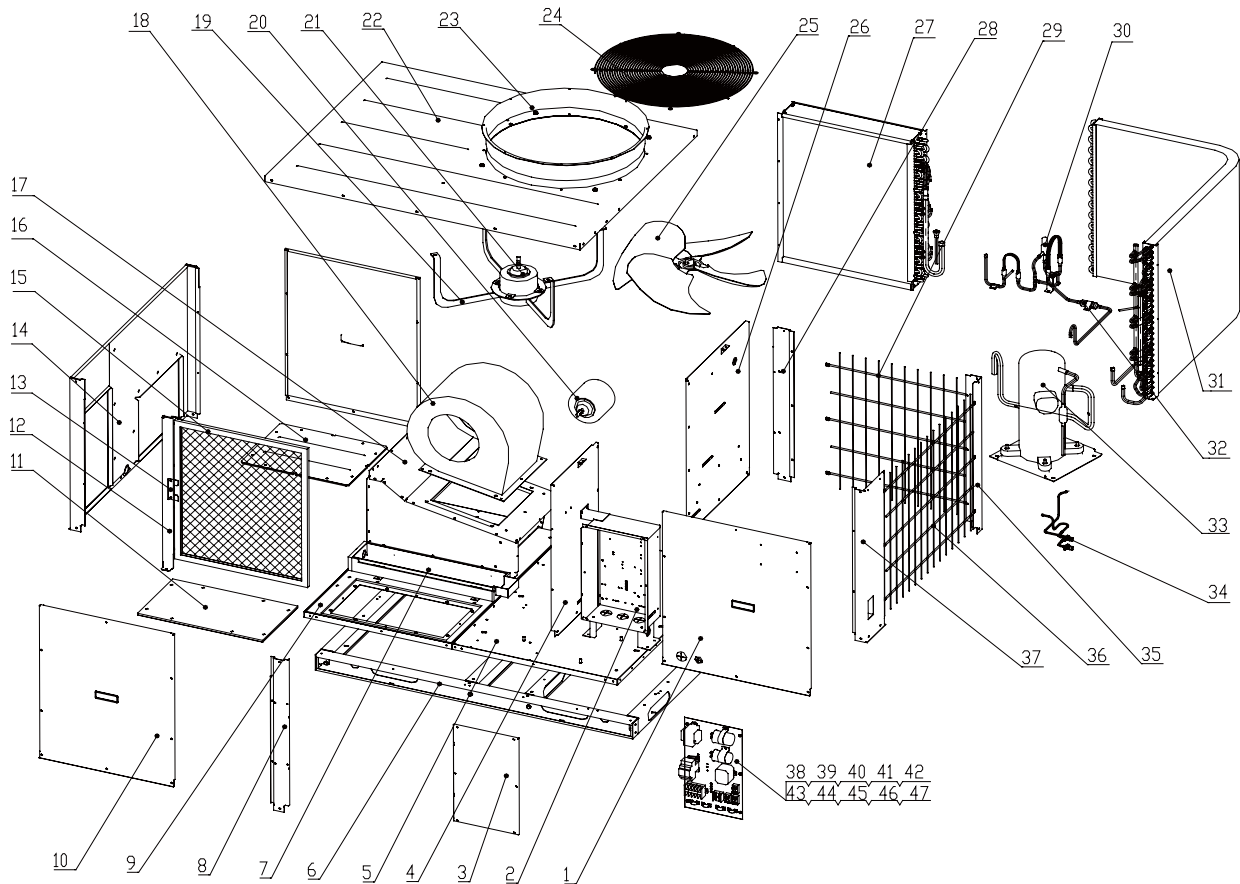
Apply to 20, 25, 30Ton:

Disassembly and Assembly of Electric Box		
Remark: Make sure that the unit is stopped running and power supply is cut off before removal		
Process	Pictorial View	Handling Description
1. Take out the side panel		Unscrew the screws fixing side plate .
2. Take out the electric box cover plate		Unscrew the screws fixing cover (indicated by circles) .Lift the handles,slightly pulling it outwards and downwards to take out the cover.
3. Disconnect all connection lines.		Disconnect all connection lines between exterior electric component and elements in electric box . Note: Please refer to the schematic diagram which adhered on electric box for disconnection of connection lines of motor.
4. Take down the electric box.		Unscrew the screws (indicated by the arrows),and then take out the electric box. Note: Power cord may be fixed by bundles,so loose the bundles before taking out the electric box.
5. Re-install the electric box.		Put the electric box back and tighten the screws. Then reconnect all connection lines that had been take down,and refix the Power cord with bundles at original locations. Note: The line connection must accord to the schematic diagram. All cable can not contact the pipe and moving parts such as fan.
6. Re-install the electric box cover plate.		Put the electric box cover plate back and tighten the screws.
		

**NOTE:** Above diagrams may be different from actual model.

## 5 EXPLODED VIEWS AND PART LIST

### 1) GK-C03TC1AD ;GK-C04TC1AD exploded views & parts list Unit exploded views



GK-C03TC1AD for EJ51000160;GK-C04TC1AD for EJ51000170

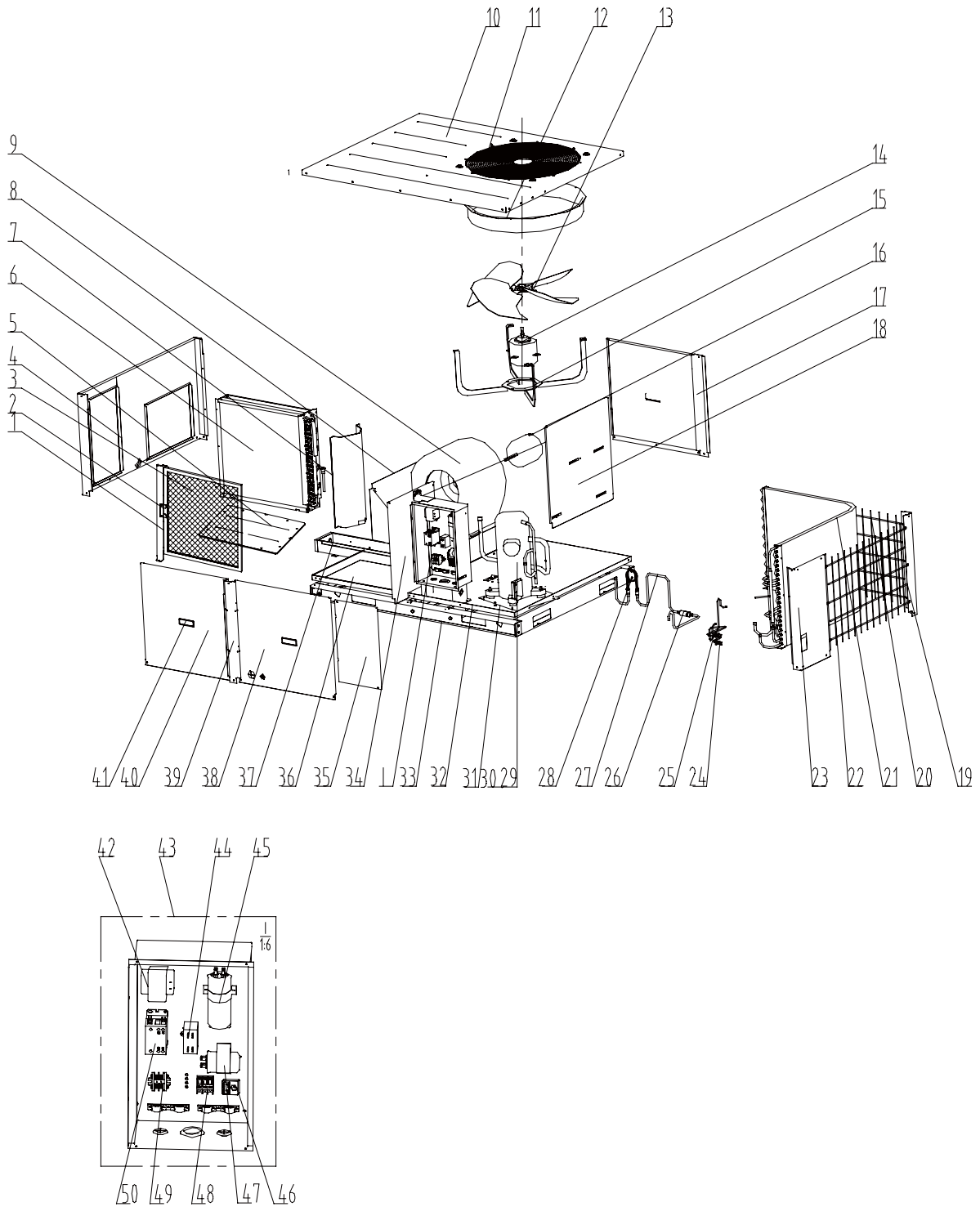
No.	Name of part	Part code	Quantity
1	Right Side Plate Sub-Assy	01313919	1
2	Electric Box Sub-Assy	01393902P	1
3	Electric Box Cover Plate Sub-Assy	01393903	1
4	Clapboard Sub-Assy 2	01243902	1
5	Base Plate Sub-Assy 2	01193903P	1
6	Base Frame Sub-Assy	01283907	1
7	Water Tray Sub-Assy	01283905	1
8	Right Support	01853907P	1
9	Base Plate Sub-Assy	01193901	1
10	Side Plate Sub-Assy	01313902	2
11	Cover Of Air-In	01263901P	1
12	Support Sub-Assy	01853901	1
13	Air Filter Compaction Bar	01343901P	1
14	Front Side Plate Sub-Assy	01313901	1
15	Air Filter Sub-Assy	11723901	1
16	Cover Of Air-Supply Sub-Assy	01263905	1
17	Bellows Cover Assy	01263906	1
18	Centrifugal Fan SYZ9-7IIGR	15703704	1
19	Motor Mounting Plate Sub-Assy	01323734P	1

20	Motor FG190A	15702208 ①	1
	Motor FG250A	15702207 ②	
21	Motor SW300C	15702204	1
22	Top Cover Plate	01263908P	1
23	Flow-guide Loop	01523901P	1
24	Mesh Enclosure	01573702P	1
25	Fan $\phi$ 584	10453701	1
26	Clapboard Sub-Assy 1	01243901	1
27	Evaporator Assy	01023901	1
28	Left Support	01853906P	1
29	Mesh Enclosure (Left)	01573901P	1
30	Uninstall Valve	07138245	1
31	Condenser Assy	01123906 ①	1
		01123901 ②	
32	Bidirectional Strainer	07220016	1
33	Compressor C-SB261H6C	00205219 ①	1
	Compressor C-SB351H6A	00205221 ②	
34	Nozzle for Adding Freon	06120014	2
35	Back Support	01853903P	1
36	Mesh Enclosure (Back)	01573902P	1
37	Rear Side Plate Sub-Assy	01313906P	1
38	Mounting Plate Sub-Assy	01323903	1
39	Terminal Block(3 bit)	42011242	1
40	Power Transformer 66 $\times$ 36B	43110286	1
41	AC Contactor GC6-45S/01C1	44010253	1
42	Terminal Block(3 bit)	420111041	1
43	Terminal Block 2-8 #	42011103	2
44	Fixed Clamp	71010102	4
45	Capacitor CBB65 15uF/450V	33010045	1 ①
			2 ②
46	Capacitor CBB65 50uF/450V $\phi$ 50 $\times$ 120	33000001 ①	1
	Capacitor CBB65 35uF/450V TUV(VDE) $\phi$ 50 $\times$ 90	33010743 ②	2
47	Capacitor CBB61(1A) 10uF/450VAC	33010056 ①	1

**Note:** ① is only used in EJ51000160.

② is only used in EJ51000170.

2) GK-C03TC1AD  
Unit exploded views

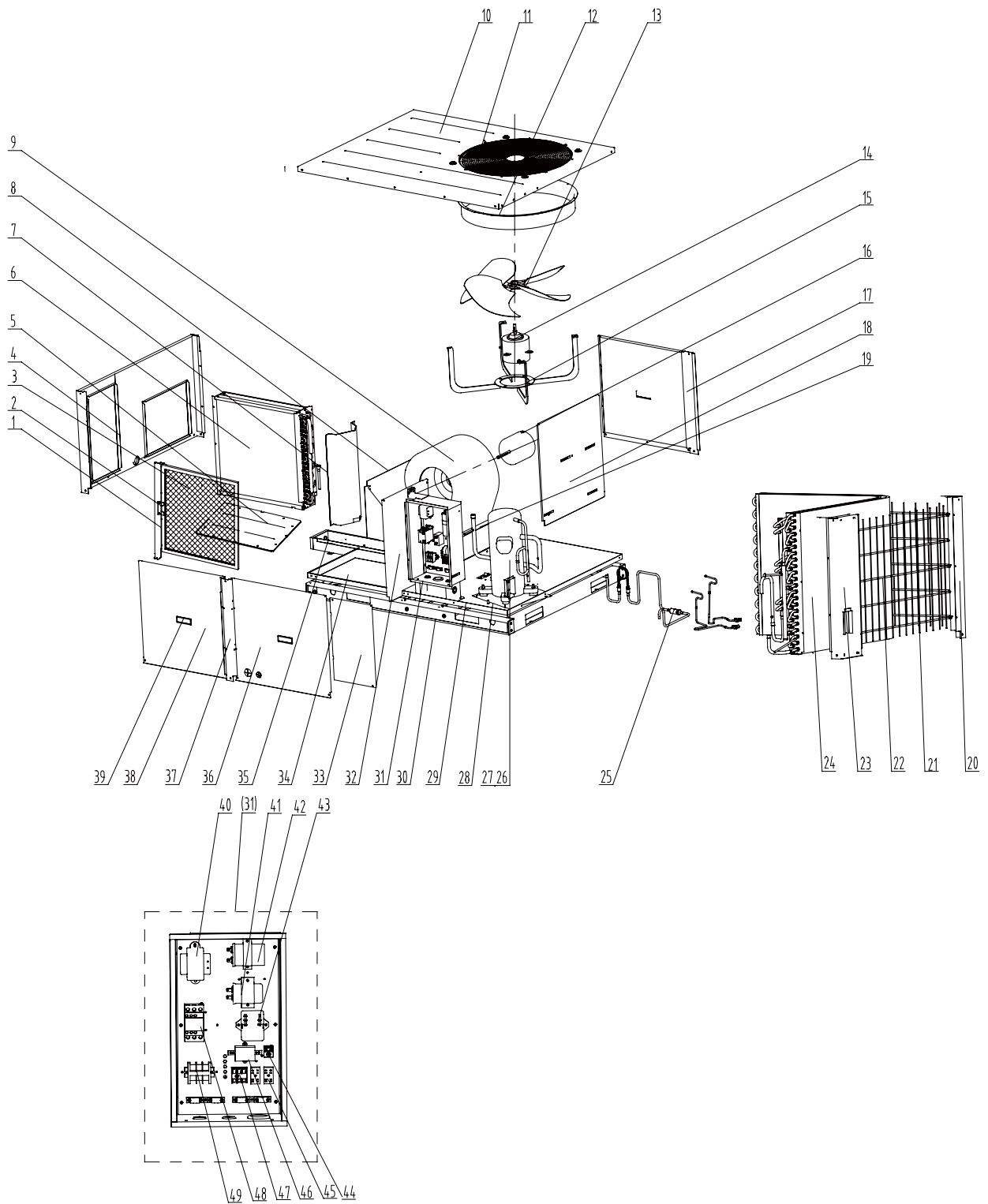




GK-C03TC1AD for EJ51000161

No.	Name of part	Part code	Quantity
1	Support Sub-Assy	01853901	1
2	Air Filter Compaction Bar	01343901P	1
3	Filter Sub-Assy	11723901	1
4	Front Side Plate Sub-Assy	01313901	1
5	blowing- in cover plate sub- assy	01263905	1
6	Evaporator Assy	01023901	1
7	Cover Plate Sub-Assy of Evaporator	01263966	1
8	Bellows Cover Assy	01263964	1
9	Motor for Centrifugal Fan	15702202	1
10	Top Cover Board Sub-assy	01263907	1
11	Rear Gr	01573702P	1
12	Flow-guide Loop	01523901P	1
13	Centrifugal Fan	10453701	1
14	Fan Motor	15702204	1
15	Mounting Board of Motor Sub-Assy	01323734P	1
16	Fan Motor	15702208	1
17	Left Support	01853906P	1
18	Clapboard Sub-Assy	01243901	1
19	Rear Column	01853903P	1
20	Rear Grill	01573901P	1
21	Condenser Assy	01123906	1
22	Rear Grill	01573902P	1
23	Rear Side Plate Sub-Assy	01313906P	1
24	connection Pipe Sub-assy	05023923	1
25	connection Pipe Sub-assy	05023922	1
26	Bidirection Strainer	07220016	1
27	Capillary Sub-Assy	04103934	1
28	Capillary tube	81024001	1
29	Overload Protector	00283909	1
30	Compressor and Fittings	00203922	1
31	Compressor Mounting Plate Sub-Assy	01323901P	1
32	Base Plate Sub-Assy 2	01193903P	1
33	Base Frame Sub-Assy	01283907	1
34	Clapboard Sub-Assy	01243902	2
35	Electric Box Cover Plate Sub-Assy	01423925	1
36	Chassis Sub-assy	01193901	1
37	Water Tray Sub-Assy	01283905	1
38	Right Side Plate Sub-Assy	01313919	1
39	Right Support	01853907P	1
40	Side Plate Sub-Assy	01313902	2
41	Handle	2623525304	1
42	Transformer	43110286	1
43	Electric Box Assy	01393977	3
44	Capacitor	33010056	4
45	Capacitor	33000039	1
46	Terminal Board	42011147	1
47	Capacitor	33010045	1
48	Terminal Board	420111041	1
49	Terminal Board	420111451	1
50	AC Contactor	44010283	1

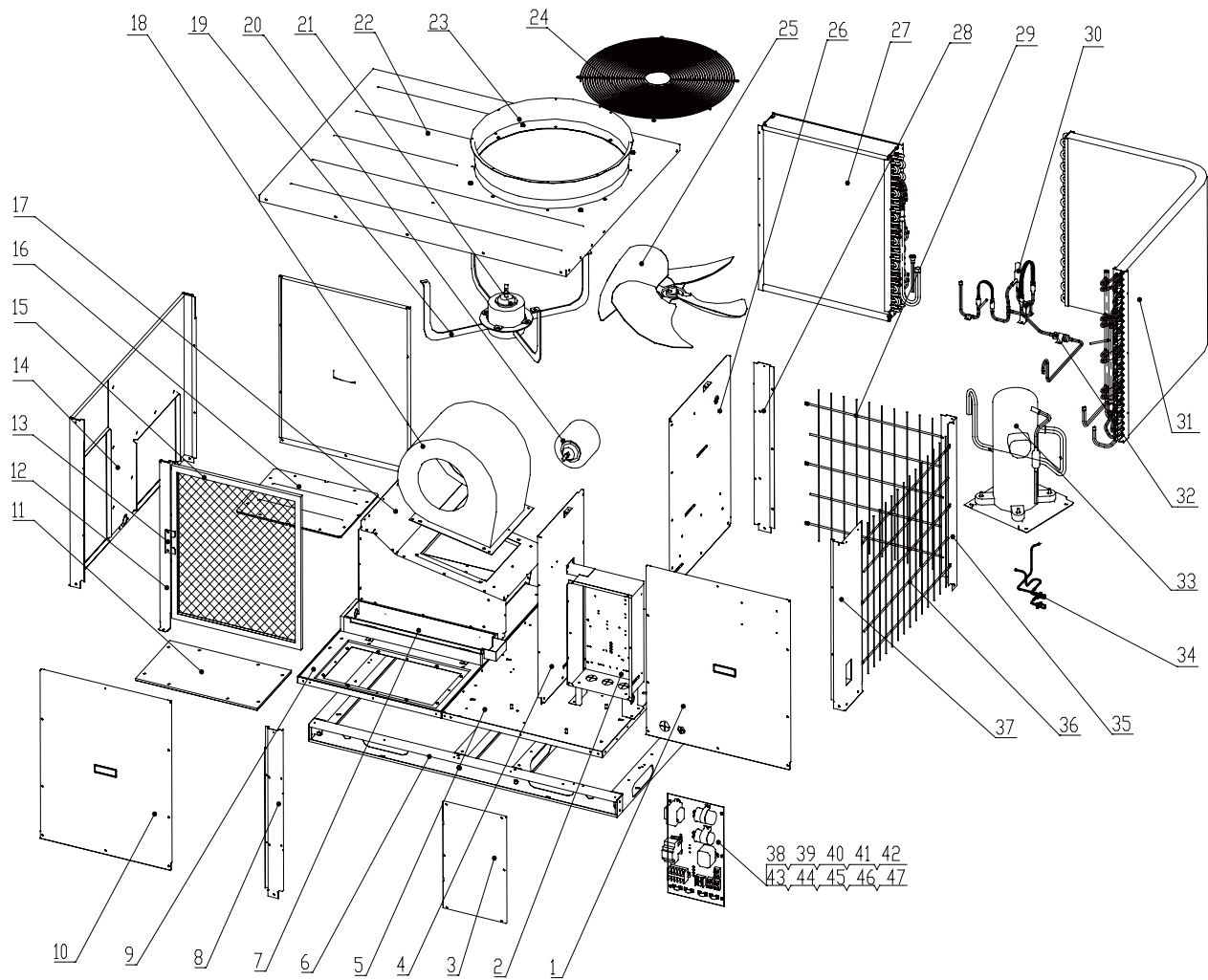
GK-C04TC1AF  
Unit exploded views



GK-C04TC1AF for EJ51000470

No.	Name of Part	Part Code	Quantity
1	Support Sub-Assy	'01853901	1
2	Air Filter Compaction Bar	'01343901P	1
3	Filter Sub-Assy	'11723901	1
4	Front Side Plate Sub-Assy	'01313901	1
5	Cover Plate for Air Supply Chamber	'01263905	1
6	Evaporator Assy	'01023931	1
7	Cover Plate Sub-Assy of Evaporator	'01263966	1
8	Bellows Cover Assy	'01263964	1
9	Motor for Centrifugal Fan	'15702202	1
10	Top Cover Board Sub-assy	'01263907	1
11	Grill	'01573702P	1
12	Flow-guide Loop	'01523901P	1
13	Centrifugal Fan	'10453701	1
14	Fan Motor	'15702204	1
15	Mounting Board of Motor Sub-Assy	'01323734P	1
16	Fan Motor	'1570390102	1
17	Left Support	'01853906P	1
18	Clapboard Sub-Assy	'01243901	1
19	Bottom Plate of Air Supply Chamber	'01263963	1
20	Rear Support	'01853903P	1
21	Left Grill	'01573901P	1
22	Grill	'01573702	1
23	Rear Side Plate Sub-Assy	'01313980P	1
24	Condenser Assy	'01123926	1
25	Bidirection Strainer	'07220016	1
26	Overload Protector	00281106	1
27	Compressor and Fittings	'00202103	1
28	Compressor Mounting Plate Sub-Assy	'01323901P	1
29	Base Plate Sub-Assy 2	'01193903P	1
30	Base Frame Sub-Assy	'01283907	1
31	Electric Box Assy	'01393982	1
32	Clapboard Sub-Assy	'01243902	1
33	Electric Box Cover Plate Sub-Assy	'01423925	1
34	Chassis Sub-assy	'01193901	1
35	Water Tray Sub-Assy	'01283905	1
36	Right Side Plate Sub-Assy	'01313919	1
37	Right Support	'01853907P	1
38	Side Plate Sub-Assy	'01313902	2
39	Handle	'2623525304	2
40	Transformer	'43110286	1
41	Capacitor	'33010045	1
42	Capacitor	'33010044	1
43	Phase Reverse Protector	'46020066	1
44	Terminal Board	'42011147	1
45	Terminal Board	'42011103	2
46	Relay	'44020422	1
47	Terminal Board	'420111041	1
48	AC Contactor	'44010214	2
49	Terminal Board	42011242	1

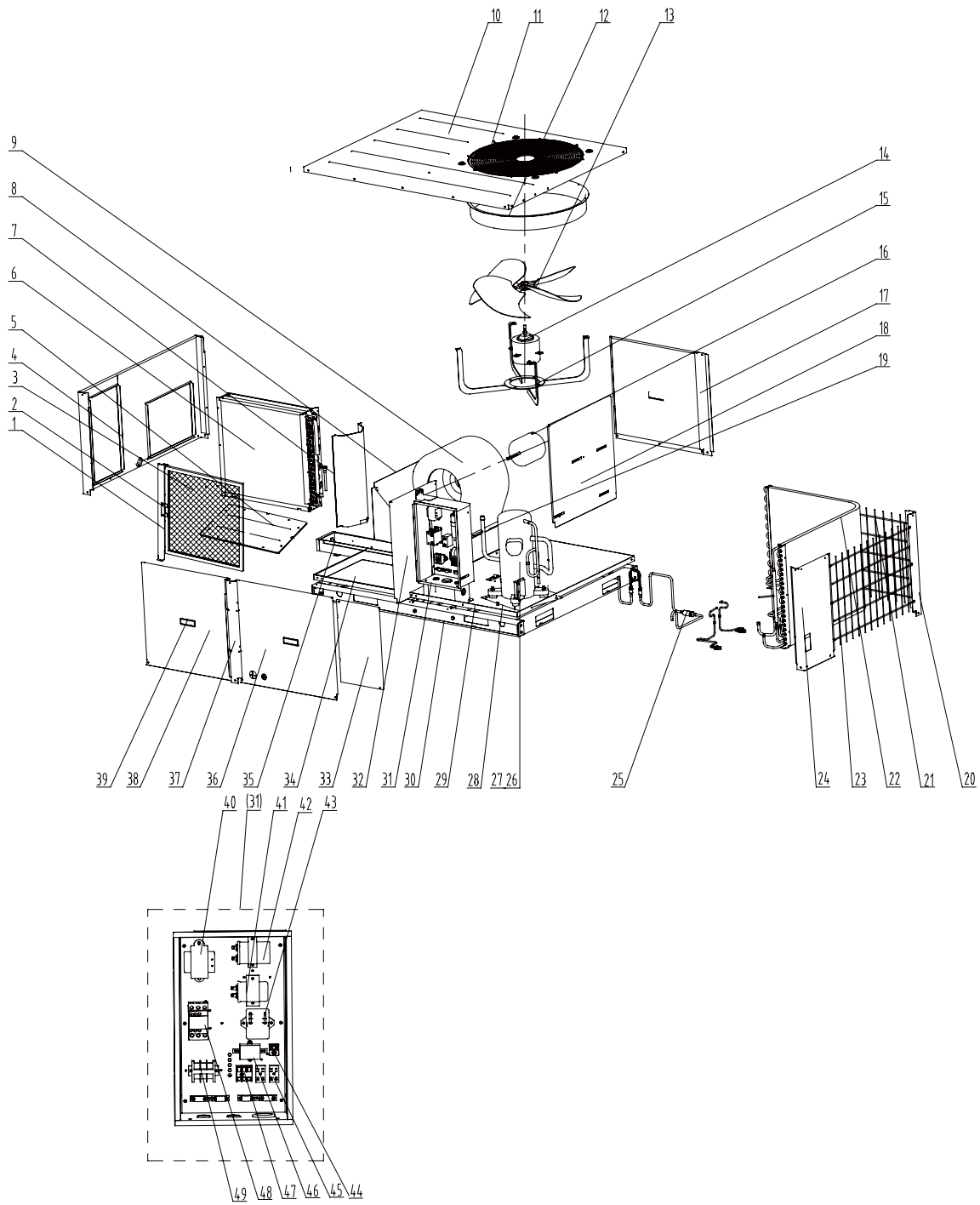
3) GK-C05TC1AF exploded views & parts list  
Unit exploded views



GK-C05TC1AF for EJ51000190

No.	Name of part	Part code	Quantity
1	Right Side Plate Sub-Assy	01313922	1
2	Electric Box Sub-Assy	01393902P	1
3	Electric Box Cover Plate Sub-Assy	01393903	1
4	Clapboard Sub-Assy 2	01243912	1
5	Base Plate Sub-Assy 2	01193903P	1
6	Base Frame Sub-Assy	01283907	1
7	Water Tray Sub-Assy	01283905	1
8	Right Support	01853918P	1
9	Base Plate Sub-Assy	01193901	1
10	Side Plate Sub-Assy	01313911	2
11	Cover Of Air-In	01263901P	1
12	Support Sub-Assy	01853916	1
13	Air Filter Compaction Bar	01343901P	1
14	Front Side Plate Sub-Assy	01313910	1
15	Air Filter Sub-Assy	11723902	1
16	Cover Of Air-Supply Sub-Assy	01263905	1
17	Bellows Cover Assy	01263911	1
18	Centrifugal Fan DF2.76H	15702205	1
19	Motor Mounting Plate Sub-Assy	01323734P	1
20	Motor FG850A	15703901	1
21	Motor SW300C	15702204	1
22	Top Cover Plate	01263908P	1
23	Flow-guide Loop	01523901P	1
24	Mesh Enclosure	01573702P	1
25	Fan φ584	10453701	1
26	Clapboard Sub-Assy 1	01243911	1
27	Evaporator Assy	01023904	1
28	Left Support	01853917P	1
29	Mesh Enclosure(Left)	01573906P	1
30	Uninstall Valve	07335701	1
31	Condenser Assy	01123905	1
32	Bidirection Strainer	07220016	1
33	Compressor C-SB373H6B	00120038	1
34	Nozzle for Adding Freon	06120014	2
35	Back Support	01853920P	1
36	Mesh Enclosure(Back)	01573908P	1
37	Rear Side Plate Sub-Assy	01313917P	1
38	Mounting Plate Sub-Assy	01323903	1
39	Terminal Block T5A0A	42011223	1
40	Power Transformer 66×36B	43110286	1
41	AC Contactor LC1-D2501B7C(24VAC)	44010255	1
42	Terminal Block(3 bit)	420111041	1
43	Terminal Block 2-8 #	42011103	3
44	Fixed Clamp	71010102	4
45	Capacitor CBB65 15uF/450V	33010045	1
46	Capacitor CBB65 25uF/450V(440V)	33000017	1
47	Anti-phase Protector	46020066	1

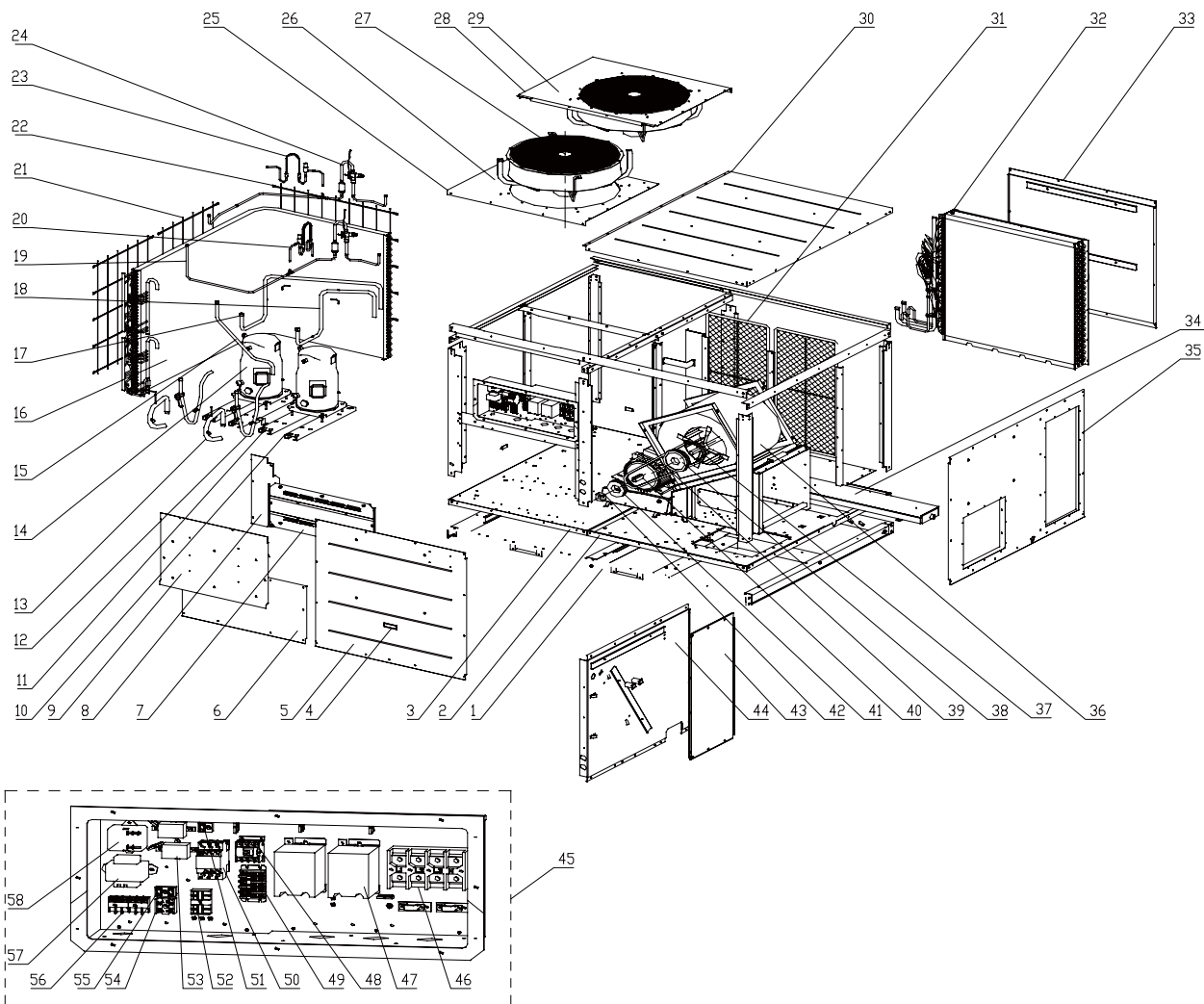
GK-C05TC1AF  
Unit exploded views



**GK-C05TC1AF for EJ51000191**

No.	Name of Part	Part code	Quantity
1	Column sub-assy	'01853916	1
2	filter bead	'01343901P	1
3	Filter Sub-Assy	'11723902	1
4	Front Side Plate Sub-Assy	'01313910	1
5	blowing- in cover plate sub- assy	'01263905	1
6	Evaporator Assy	'01023904	1
7	Cover Plate Sub-Assy of Evaporator	'01263971	1
8	cover plate Assy of air box	'01263911	1
9	Motor for Centrifugal Fan	'15702205	1
10	Top Cover Board Sub-assy	'01263907	1
11	Rear Grill	'01573702P	1
12	Diversion Circle	'01523901P	1
13	Centrifugal Fan	'10453701	1
14	Fan Motor	'15702204	1
15	Mounting Board Sub-assy of Motor	'01323734P	1
16	Fan Motor	'1570390102	1
17	Left Column	'01853917P	1
18	Clapboard Sub-Assy	'01243911	1
19	Base Plate Sub- Assy of air box	'02223901	1
20	Rear Column	'01853920P	1
21	Rear Grill	'01573906P	1
22	Condenser Assy	'01123905	1
23	Rear Grill	'01573908P	1
24	Rear Side Plate Sub-Assy	'01313917P	1
25	Bidirection Strainer	'07220016	1
26	Overload Protector	'00289402	1
27	Compressor and Fittings	'00209406	1
28	Compressor Mounting Plate Sub-Assy	'01323901P	1
29	Base Plate Sub-Assy 2	'01193903P	1
30	Base Frame Sub-Assy	'01283907	1
31	Electric Box Assy	'01393982	1
32	Clapboard Sub-Assy	'01243912	1
33	Electric Box Cover Sub-Assy	'01393903	1
34	Chassis Sub-assy	'01193901	1
35	Water Tray Sub-Assy	'01283905	1
36	Right Side Plate Sub-Assy	'01313922	1
37	Column(right)	'01853918P	1
38	Side Plate	'01313911	2
39	Handle	'2623525304	1
40	Transformer	'43110286	1
41	Capacitor CBB65	'33010045	1
42	Capacitor CBB65	'33010044	1
43	Phase Reverse Protector	'46020066	1
44	Terminal Board	'42011147	1
45	Terminal Board	'42011103	2
46	Relay	'44020422	1
47	Terminal Board	'420111041	1
48	AC Contactor	'44010214	1
49	Terminal Board	'42011242	1

Model: GK-C13TC1AF; GK-C15TC1AF exploded views & parts list  
Unit exploded views



GK-C13TC1AF for EJ000300; GK-C15TC1AF for EJ51000180

No.	Name of part	Part code	Quantity
1	Base Frame Assy	01283908	1
2	Chassis Sub-Assy 1	02223907	1
3	Chassis Sub-Assy 2	02223905	1
4	Handle	2623525304	2
5	Side Plate Sub-Assy 1	01543902	1
6	Side Plate 3	01543911	1
7	Electric Box Cover Sub-Assy	01423907	1
8	Electric Box Fixed Plate	01423905	1
9	Topside Panel Welding Sub-Assy	01313924	1
10	Mounting Bracket Sub-Assy2	01804015	2
11	Mounting Bracket Sub-Assy 1	01804016	2
12	Discharge Tube Sub-Assy	04633926	2
13	Inhalation Tube Sub-Assy	04673940	2
14	Compressor And Fittings	00205240	2
15	Discharge Tube 2	04613911	1
16	Condenser Assy 1	01123902	1

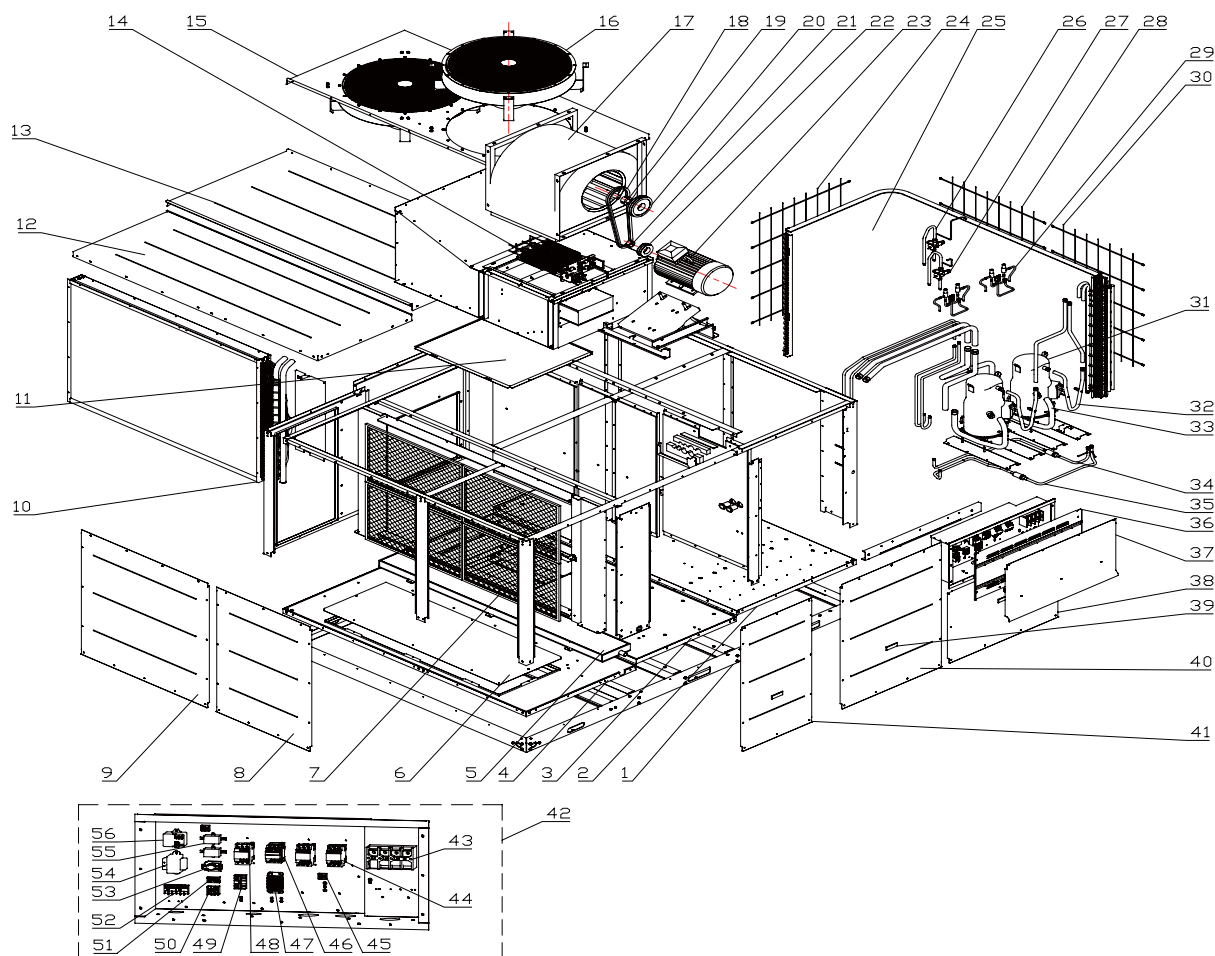


17	Connection Pipe	05024067	1
18	Connection Pipe	05024066	1
19	Thermal Expansion Valve Sub-Assy 1	07333929	1
20	Discharge charge Valve Sub-Assy	07333903	1
21	Rear Grill	01573905	1
22	Left Grill	01573904	2
23	Discharge charge Valve Sub-Assy 1	07333902	1
24	Thermal Expansion Valve Sub-Assy 2	07333927	1
25	Condenser Fan Assy2	15403905	1
27	Fan and Motor Sub-Assy	15403906	1
28	Condenser Fan Assy1	15403901	1
30	Top Panel Sub-Assy	01543904 ①	1
		01873968 ②	
31	Filter Sub-Assy	01573907	2
32	Evaporator Assy	01023902	1
33	Side Panel Sub-Assy2	01543903	1
34	Water Tray Sub-Assy	01283909	1
35	Front Panel Sub-Assy	01543901	1
36	Centrifugal Fan Sub-Assy	15403906	1
37	Belt	76318264	2
38	Belt Wheel	10548160	1
39	Taper Sleeve	10548222	1
40	Motor	15706025	1
41	Belt Wheel	10548155	1
42	Taper Sleeve	10548220	1
43	Mid-clapboard sub-Assy	01243908	1
44	Mid-clapboard sub-Assy	01243907	1
45	Electric Box Assy	01393969 ①	1
		01393904 ②	
46	Terminal Board	42010265	1
47	AC Contactor	44010214	1
48	AC Contactor	44010199	1
49	Terminal Board	42010265	1
50	AC Contactor	44010280	2
51	Terminal Board	42010258	1
52	Terminal Board	42010247	1
53	Relay	44020422	2
54	Terminal Board	42011106	1
55	Terminal Board	42011103	1
56	Terminal Board	42010259	1
57	Transformer	43110286	1
58	Phase Reverse Protector	46020066	1

**Note:** ① is only used in EJ51000300.

② is only used in EJ51000180.

Model: GK-C20TC1AF exploded views & parts list  
Unit exploded views

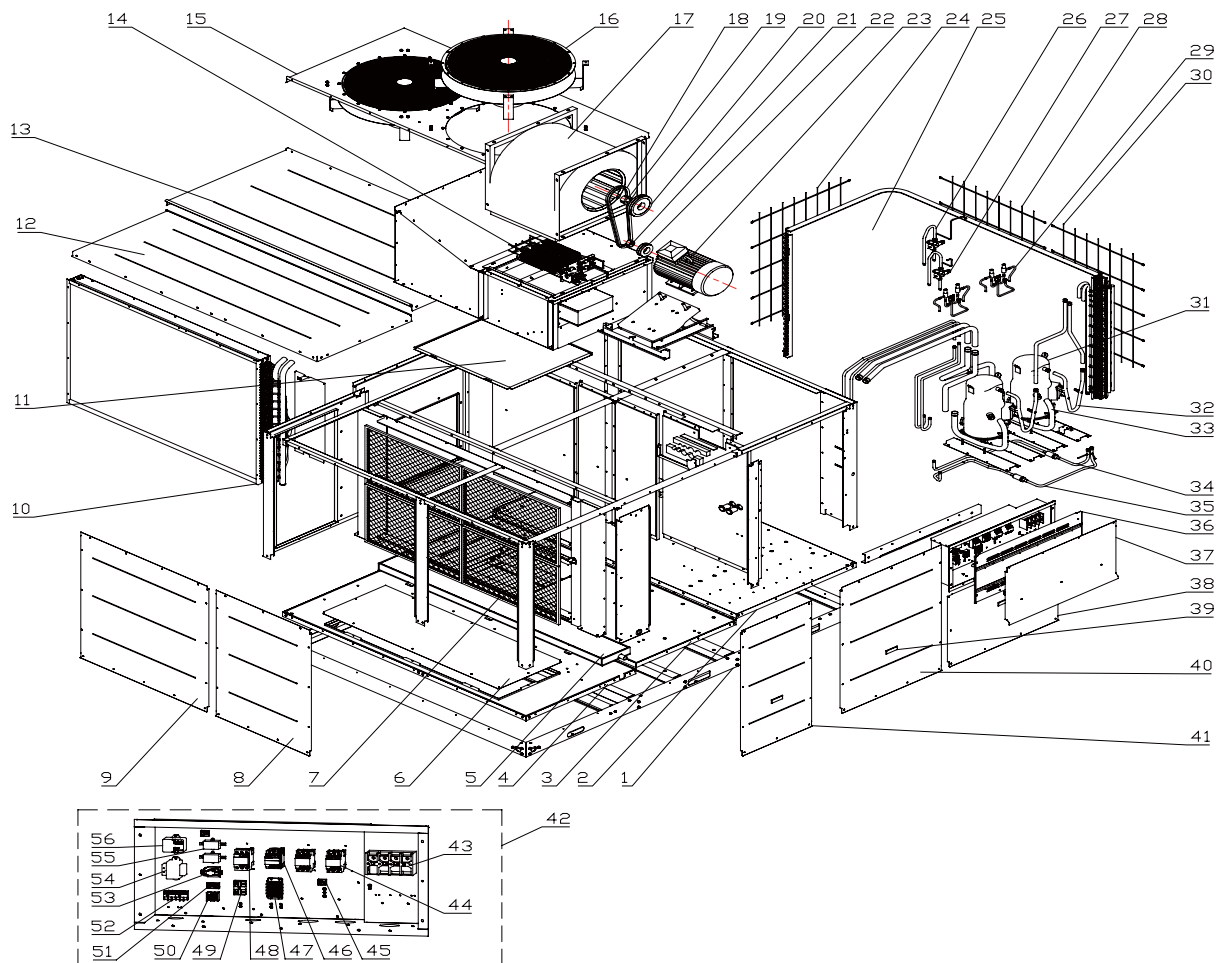


GK-C20TC1AF for EJ51000260

No.	Name of part	Part code	Quantity
1	Base Frame Assy	01283976	1
2	Chassis Sub-Assy	01193912P	1
3	Chassis Assy	01193910	1
4	Chassis Assy	01193908	1
5	Water Tray Assy	01283980	1
6	cover plate Assy for air returning	01263946	1
7	Filter Sub-Assy	11723904	4
8	Front Side Plate Sub-Assy	01313960	1
9	Front Side Plate Sub-Assy	01313955	1
10	Evaporator Assy	01023918	1
11	Air Supply Cover Sub-Assy	01263938	1
12	Top Cover Board Sub-assy	01263940	1
13	Top Cover Board Sub-assy	01263942	1
15	Top Cover Board Assy	01263944	1
16	Axial Flow Fan Sub-Assy	15403914	2
17	Motor	15018309	1
18	Belt	76318268	2
19	Taper Sleeve	10548216	1

20	Belt Wheel	10546301	1
21	Taper Sleeve	10548221	1
22	Belt Wheel	10548280	1
23	Fan Motor	15706025	1
24	Grill 1	01573911	1
25	Condenser Assy	01123911	1
26	Thermal Expansion Valve Sub-Assy 1	07333933	1
27	Thermal Expansion Valve Sub-Assy2	07333934	1
28	Grill 2	01573912	1
29	Discharge charge Valve Sub-Assy	07333923	2
30	Grill 3	01573913	1
31	Compressor and fittings	00203904	2
32	Inhalation Tube Sub-Assy	04673938	2
34	Filtering Sub-Assy	07413909	1
35	Filtering Sub-Assy	07413908	1
36	Electric Box Cover Sub-Assy	01393952	1
37	Upper Side Plate	01313958	1
38	Condenser Side Plate	01313959	1
39	Handle	2623525304	3
40	Right Side Plate Sub-Assy	01313950	1
41	Right Side Plate Sub-Assy	01313952	1
42	Electric Box Assy	01393954	1
43	Terminal Board	42010247	1
44	AC Contactor	44010213	1
45	Terminal Board	42011147	2
46	AC Contactor	44010214	1
47	Terminal Board	42010258	1
48	AC Contactor	44010239	2
49	Terminal Board	42010265	1
50	Terminal Board	42011103	1
51	Terminal Board	42011106	1
52	Terminal Board	42010259	1
54	Transformer	43110286	1
55	Relay	44020422	2
56	Phase Reverse Protector	46020066	1

Model: GK-C25TC1AF exploded views & parts list  
Unit exploded views

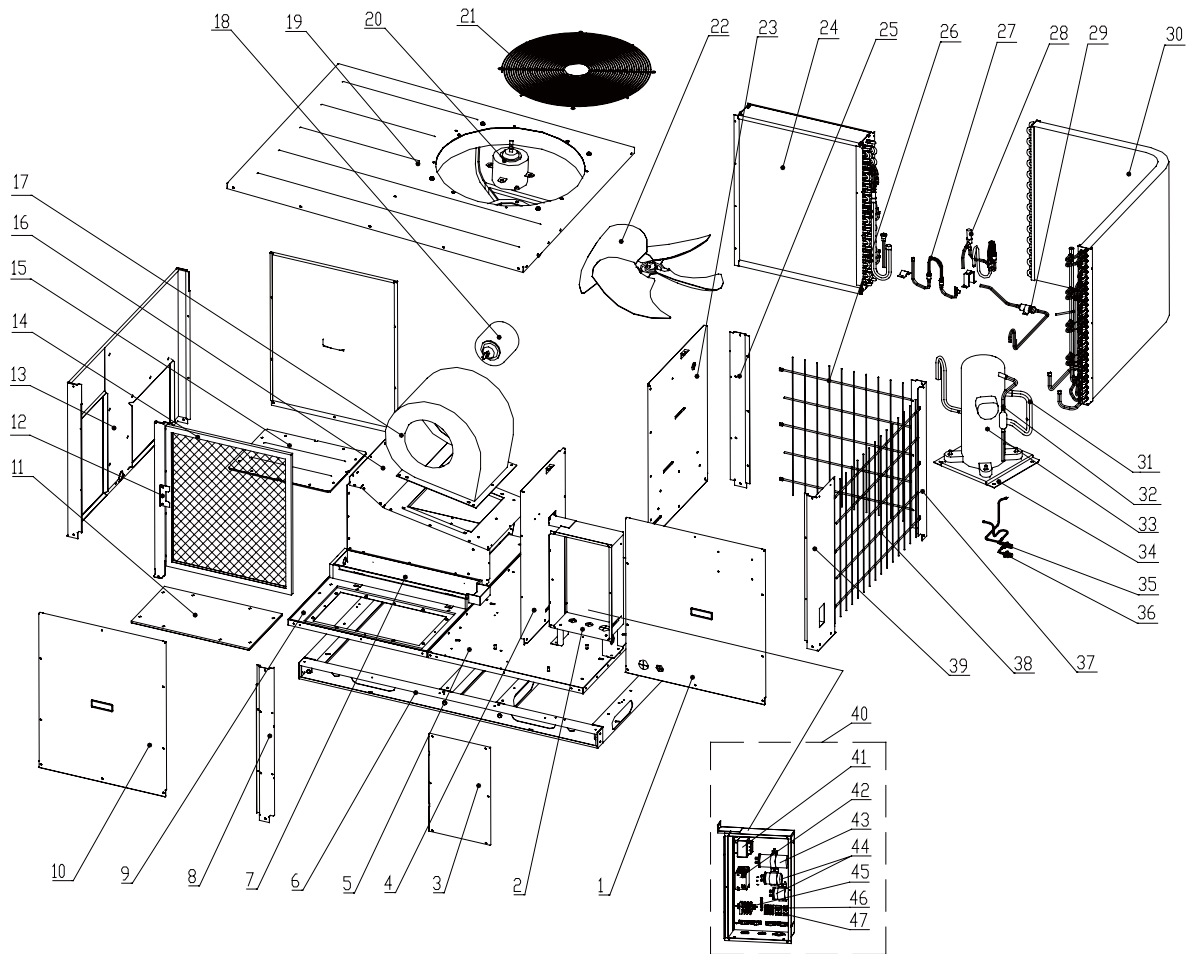


GK-C25TC1AF for EJ51000270

No.	Name of part	Part code	Quantity
1	Base Frame Assy	01283976	1
2	Chassis Sub-assy	01193912P	1
3	Chassis Assy	01193910	1
4	Chassis Assy	01193908	1
5	Water Tray Assy	01283980	1
6	cover plate Assy for air returning	01263946	1
7	Filter Sub-Assy	11723904	4
8	Front Side Plate Sub-Assy	01313955	1
9	Front Side Plate Sub-Assy	01023918	1
10	Evaporator Assy	01263938	1
11	Air Supply Cover Sub-Assy	01263940	1
12	Top Cover Board Sub-Assy	01263942	1
13	Top Cover Board Sub-Assy	01263944	1
15	Top Cover Board Assy	15403914	1
16	Axial Flow Fan Sub-Assy	15018309	2
17	Motor	76318268	1
18	Belt	10548216	2

19	Taper Sleeve	10546301	1
20	Belt Wheel	10548221	1
21	Taper Sleeve	10548151	1
22	Belt Wheel	15703182	1
23	Fan Motor	01573911	1
24	Grill 1	01123911	1
25	Condenser Assy	07333931	1
26	Thermal Expansion Valve Sub-Assy 1	07333932	1
27	Thermal Expansion Valve Sub-Assy 2	01573912	1
28	Grill 2	07333923	1
29	Discharge charge Valve Sub-Assy	01573913	2
30	Grill 3	00201122	1
31	Compressor and fittings	04633933	1
32	Discharge Tube Sub-Assy	04674010	1
33	Inhalation Tube Sub-Assy	07413909	1
34	Filtering Sub-Assy	07413908	1
35	Filtering Sub-Assy	01393952	1
36	Electric Box Cover Sub-Assy	01313958	1
37	Upper Side Plate	01313959	1
38	Condenser Side Plate	01313950	1
39	Handle	2623525304	3
40	Right Side Plate Sub-Assy	01313960	1
41	Right Side Plate Sub-Assy	01313952	1
42	Electric Box Assy	01393974	1
43	Terminal Board	42010247	1
44	AC Contactor	44010213	1
45	Terminal Board	42011147	2
46	AC Contactor	44010214	1
47	Terminal Board	42010258	1
48	AC Contactor	44010239	2
49	Terminal Board	42010265	1
50	Terminal Board	42011103	1
51	Terminal Board	42011106	1
52	Terminal Board	42010259	1
53	time relay	44022202	1
54	Transformer	43110286	1
55	Relay	44020422	2
56	Phase Reverse Protector	46020066	1

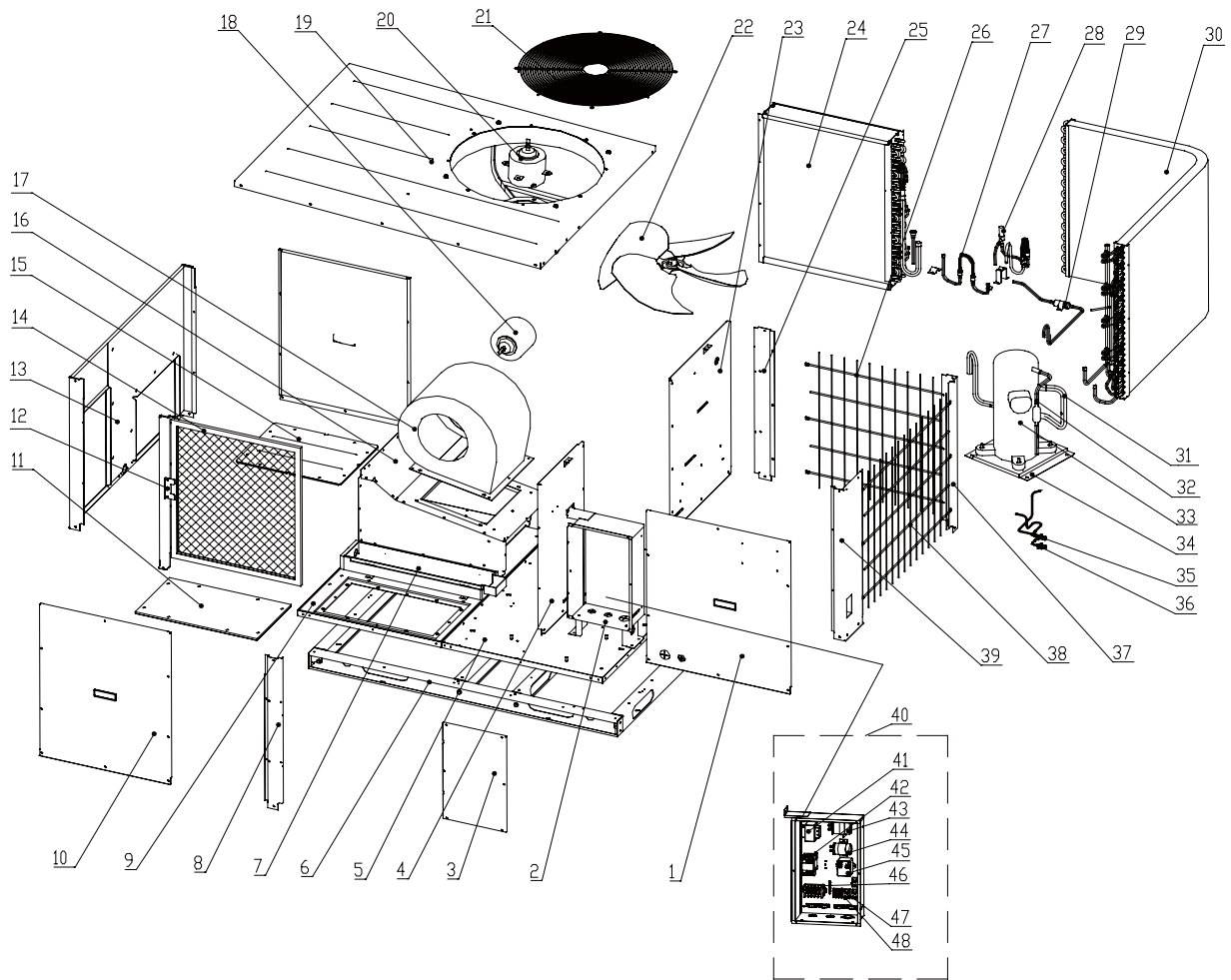
Model: GK-C03TC1AK exploded views & parts list  
Unit exploded views



GK-C03TC1AK for EJ51000200

No.	Name of part	Part code	Quantity
1	Right Side Plate Sub-Assy	01313919	1
2	Electric Box Sub-Assy	01393902	1
3	Electric Box Cover Plate Sub-Assy	01423925	1
4	Clapboard Sub-Assy 2	01243902	1
5	Base Plate Sub-Assy 2	01193903	1
6	Base Frame Sub-Assy	01283907	1
7	Water Tray Sub-Assy	01283905	1
8	Right Support	01853907	1
9	Base Plate Sub-Assy	01193901	1
10	Side Plate Sub-Assy	01313902	2
12	Air Filter Compaction Bar	01343901	1
13	Front Side Plate Sub-Assy	01313901	1
14	Air Filter Sub-Assy	11723901	1
15	Cover Of Air-Supply Sub-Assy	01263905	1
16	Bellows Cover Assy	01263906	1
17	Centrifugal Fan	15703704	1
18	Fan Motor	15703903	1
19	Top Cover Plate Sub-Assy	01263907	1
20	Fan Motor	15703902	1
21	Rear Grill	01573702	1
22	Fan	10453901	1
23	Clapboard Sub-Assy 1	01243901	1
24	Evaporator Assy	01023901	1
25	Left Support	01853906	1
26	Rear Grill	01573702	1
27	Capillary Sub-Assy	04103916	1
28	Discharge charge Valve Sub-Assy	07333901	1
29	Filtering Sub-Assy	07413901	1
30	Condenser Assy	01123906	1
31	Inhalation Tube Sub-Assy	04673901	1
32	Discharge Tube	04613902	1
33	Compressor and fittings	00205229	1
34	Compressor Mounting Plate Sub-Assy	01323901P	1
35	Connecting Sub-Assy1	05023922	1
36	Connecting Sub-Assy2	05023923	1
37	Back Support	01853903P	1
38	Rear Grill	01573902P	1
39	Rear Side Plate Sub-Assy	01313906P	1
40	Electric Box Assy	01393907	1
41	Transformer	43110286	1
42	AC Contactor	44010255	1
43	Capacitor	33000039	1
44	Capacitor	33010045	2
45	Terminal Block	42011242	1
46	Terminal Block	42011103	2
47	Terminal Block	420111041	1

Model: GK-C04TC1AM; GK-C05TC1AM views & parts list  
Unit exploded views

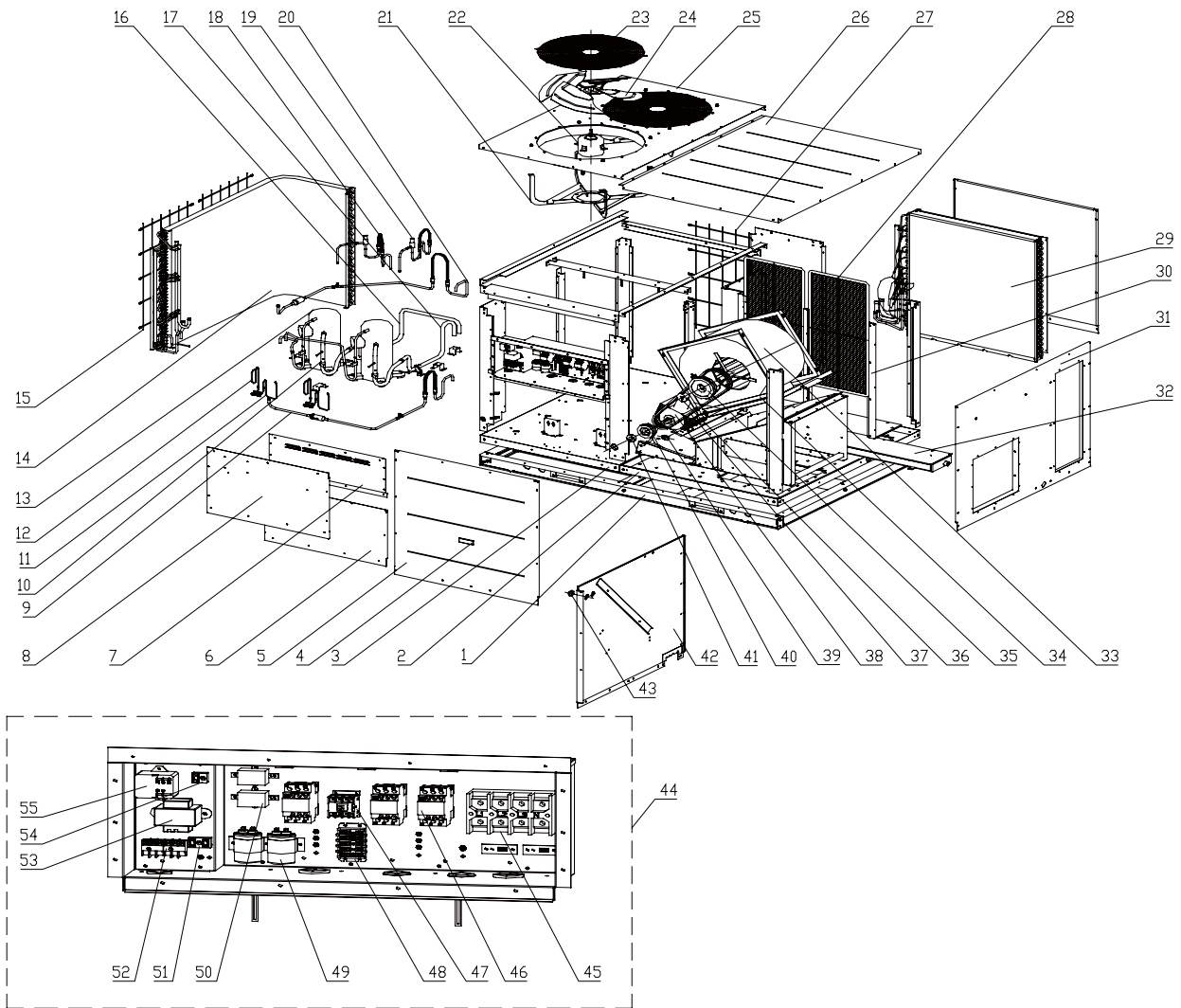




**GK-C04TC1AM for EJ51000210; GK-C05TC1AM for EJ51000220**

No.	Name of part	Part code	Quantity
1	Right Side Plate Sub-Assy	01313922	1
2	Electric Box Sub-Assy	01393902	1
3	Electric Box Cover Plate Sub-Assy	01393903	1
4	Clapboard Sub-Assy 2	01243912	1
5	Base Plate Sub-Assy 2	01193903	1
6	Base Frame Sub-Assy	01283907	1
7	Water Tray Sub-Assy	01283905	1
8	Right Support	01853918	1
9	Base Plate Sub-Assy	01193901	1
10	Side Plate Sub-Assy	01313911	2
12	Air Filter Compaction Bar	01343901	1
13	Front Side Plate Sub-Assy	01313910	1
14	Air Filter Sub-Assy	11723902	1
15	Cover Of Air-Supply Sub-Assy	01263905	1
16	Bellows Cover Assy	01263911	1
17	Centrifugal Fan	15702205	1
18	Fan Motor	15703902	1
19	Top Cover Plate Sub-Assy	01263907	1
20	Fan Motor	1570390101	1
21	Rear Grill	01573702	1
22	Fan	15703902	1
23	Clapboard Sub-Assy 1	01243911	1
24	Evaporator Assy	01023709	1
25	Left Support	01853917	1
26	Rear Grill	01573906	1
27	Capillary Sub-Assy	04103915	1
28	Discharge charge Valve Sub-Assy	07333905	1
29	Filtering Sub-Assy	07413903	1
30	Condenser Assy	01123905	1
31	Inhalation Tube Sub-Assy	04673908	1
32	Discharge Tube	04633908	1
33	Compressor and fittings	00100331	1
34	Compressor Mounting Plate Sub-Assy	01323901	1
35	Connecting Sub-Assy1	05023925	1
36	Connecting Sub-Assy2	05023923	1
37	Back Support	01853920	1
38	Rear Grill	01573908	1
39	Rear Side Plate Sub-Assy	01313917	1
40	Electric Box Assy	01393909	1
41	Transformer	43110286	1
42	AC Contactor	44010255	1
43	Capacitor	33010045	1
44	Capacitor	33000017	2
45	Phase Reverse Protector	46020052	1
46	Terminal Block	42011223	1
47	Terminal Block	42011103	3
48	Terminal Block	420111041	1

Model: GK-C08TC1AF;GK-C08TC1AM; GK-C10TC1AF; GK-C10TC1AM views & parts list  
Unit exploded views



GK-C08TC1AM for EJ51000230; GK-C10TC1AM for EJ51000240

No	Name of part	Part code	Quantity
1	Base Frame Assy	1193904	1
2	Chassis Sub-Assy 1	2223918	1
3	Chassis Sub-Assy 2	02223914P	1
4	Handle	02223914P	2
5	Side Plate Sub-Assy 1	1543738	2
6	Side Plate 2	01543912P	1
7	Electric Box Cover Sub-Assy	1263920	1
8	Side Plate Sub-Assy 3	01543913P	1
9	Capillary Sub-Assy 2	04103921 ①	1
		04103911 ②	
10	Inhalation Tube Sub-Assy	4673915	2
11	Connection Pipe Sub-Assy 2	5023948	2
12	Connection Pipe Sub-Assy 1	5023946	2
13	Compressor And Fittings	205223	1
14	Condenser Assy	01123910 ①	1
		01123909 ②	

15	Rear Grill	0157370801P ①	1
		0157370802P ②	
16	Connection Pipe 1	5023950	1
17	Connection Pipe 2	5023951	1
18	Discharge Charge Valve Sub-Assy 1	7333907	1
19	Discharge Charge Valve Sub-Assy 2	7333908	1
20	Capillary Sub-Assy 1	04103922 ①	1
		04103912 ②	
21	Mounting Board Sub-Assy Of Motor	1323734	1
22	Motor	15014805	1
23	Rear Grill	0157370801P ①	1
		01573708P ②	
24	Fan	10453901	2
25	Fan and Motor Sub-Assy	15403916	1
26	Top Plate Sub-Assy	1543743	1
27	Rear Grill	0157370802P	2
28	Filter Sub-Assy	1573707	2
29	Evaporator Assy	01023913 ①	1
		01023909 ②	
30	Guide Sub-Assy	1873972	1
31	Front Side Plate Sub-Assy	01543915 ①	1
32	Water Tray Sub-Assy	1283924	1
33	Centrifugal Fan SYT15-11	15703183	1
34	Fan and Motor Sub-Assy	15403916	1
35	Belt Wheel	10548151	1
36	Taper Sleeve	10548218	1
37	Belt	76318260 ①	2
		76318264 ②	
38	Motor	15014805	1
39	Joint	6328625	1
40	Belt Wheel	10546301	1
41	Taper Sleeve	10548218	1
42	Mid-Clapboard Sub-Assy 1	1243922	1
44	Electric Box Assy	1393929	1
45	Terminal Board	42010247	1
46	AC Contactor	44010214	3
47	AC Contactor	44010199	1
48	Terminal Board	42010258	1
50	Capacitor	33010045	2
51	Relay	44020422	2
52	Terminal Board	42010259	1
53	Terminal Board	42010259	1
54	Transformer	43110286	1
55	Terminal Board	42011106	1
56	Phase Reverse Protector	46020052	1

NOTE: ① is only used in EJ51000230.

② is only used in EJ51000240.

GK-C08TC1AF for EJ51000151; GK-C10TC1AF for EJ51000061

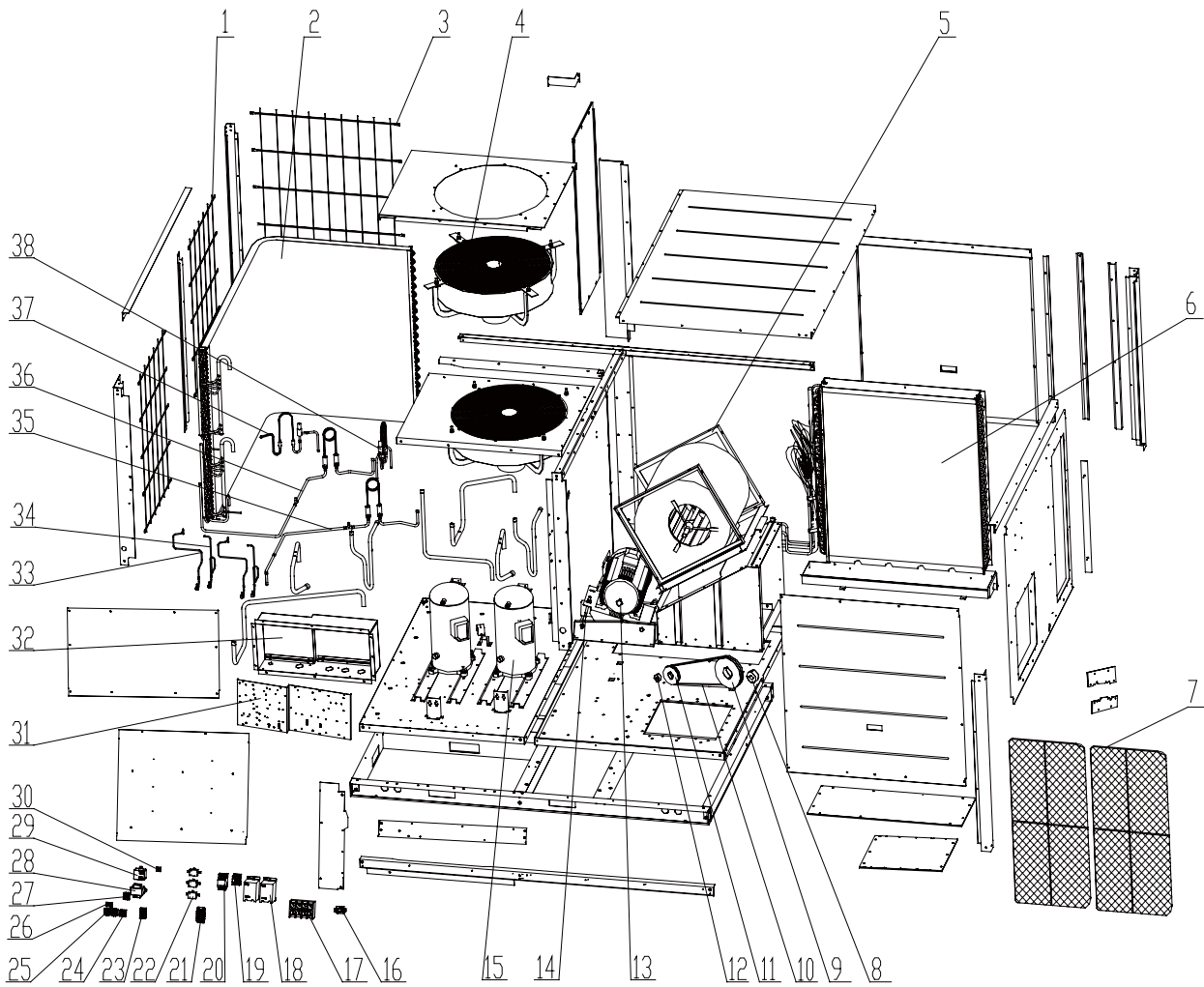
No.	Name of part	Part code	Quantity
1	Brace Assy 1	01853719	1
2	Side Panel Assy 1	01543738	1
3	Brace 4	01853730P ①	1
		01853724P ②	
4	Mesh Enclosure(Side)	01573709P ①	2
		01573705P ②	
5	Retaining Plate of Electric Box 1	01843707P	1
6	Electric Box Cover	01423714P	1
7	Retaining Plate of Electric Box 2	01843708P	1
8	Mesh Enclosure(Rear)	01573706P	2
9	Brace 3	01853723P	2
10	Brace 5	01853731P ①	1
		01853725P ②	
11	Brace Assy 2	01853720	1
12	Motor Assy	15403904 ①	1
		15008262 ②	
13	Base Frame Assy	01283722	1
14	Seat Board Assy 2	02223735P	1
15	Water Tray Assy	01283723	1
16	Base Plate Assy 1	2223731	1
17	Cover Assy for Air-Supply	01353719	1
18	Cover Assy for Air-Return	01353720	1
19	Condenser Assy 2	01123714 ①	1
		01123706 ②	
20	Condenser Assy 1	01123713 ①	1
		01123705 ②	
21	Evaporator Assy	01023705 ①	1
		01023705 ②	
22	Front Panel Assy	01543737	1
23	Guide Strip 3	01873763P	1
24	Guide Strip 2	01873762P	1
25	Guide Strip 1	01873761P	1
26	Filter Assy (black)	01573704	2
27	Motor Y2-100L1-4(Three Phases 220V/60Hz)	15706006	1
28	Belt Pulley 2-SPA100	10548148 ①	1
	Belt Pulley 2-SPA100	10548150 ②	
29	Belt SPA(1250mm)	76318305 ①	2
	Belt SPA(1282mm)	76318331 ②	
30	Belt Pulley 2-SPA160	10548158	1
31	Mid. Isolation Sheet assy 2	01243711	1
32	Right Beam assy	01873754P	1
33	Top Cover assy	01543743	1
34	Brace 6	01853726P	1
35	Front Beam assy	01873756	1

36	Middle Beam assy	01873768P	1
37	Mid. Isolation Sheet assy 1	01243710	1
38	Left Beam assy	01873752P	1
39	Rear Beam assy	01873758P	1
40	Blower SYT15-11	15703183	1
41	Top Plate Assy	01263724	1
42	Mesh Enclosure	01573702P	2
43	Flow Guide Loop	01523901	2
44	Pressure Release Valve	07335701	2
45	Filter φ12	7210032	2
46	Thermal Insulating Tube 15×35(9/16×11/8) #	75080028	1
47	Axial Flow Fan φ584	10453701	2
48	Motor Mounting Plate Assy	01323734P	2
49	Motor SW300C	1570220402	2
50	Compressor & Fittings C-SB353H6B	00202208 ①	2
	Compressor & Fittings C-SB373H6B	00120038 ②	
51	Nozzle for Adding refrigerant	06120014	4
52	Electric Box Assy	01393716P	1
53	Mounting Plate Assy	01323726	1
54	Anti-phase Protector	46020066	1
55	Terminal Board (4 bit)	420102471	1
56	Terminal Board (5 bit)	42010258	1
57	Terminal Board (2 bit)	42011154	1
58	Terminal Board 2-8 #	42011103	1
59	Power Transformer 66×36B	43110286	1
60	AC Contactor LC1-D2501B7C(24VAC)	44010255	1
61	AC Contactor(24V) A40-30-01	44018810	2
62	Capacitor CBB65 15uF/450V	33010045	2
63	Isolation WA C	70410523	1
64	Wire Clamp	71010102	2

**NOTE :** ① is only used in EJ51000151.

② is only used in EJ51000061.

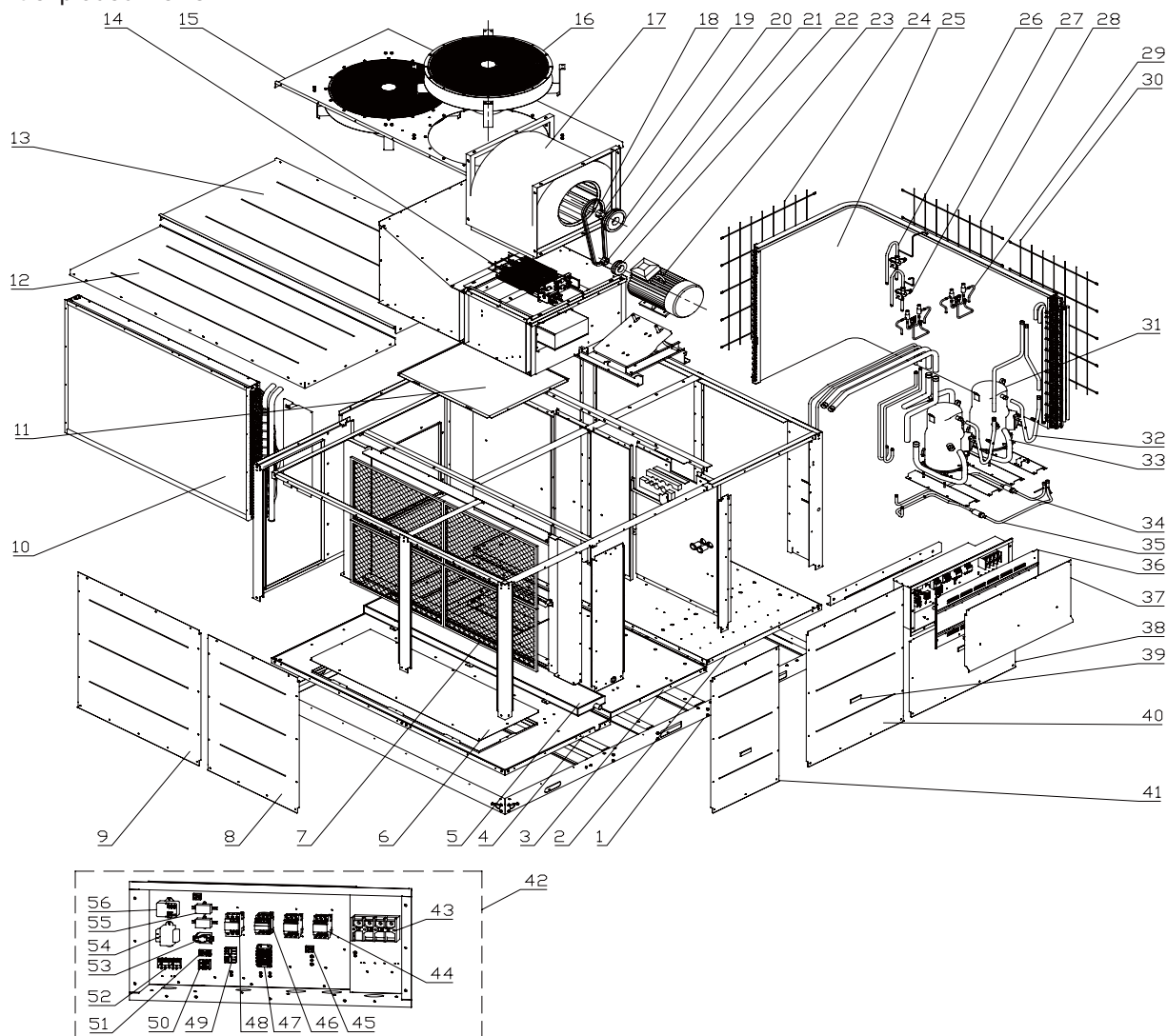
Model: GK-C15TC1AM views & parts list  
Unit exploded views



**GK-C15TC1AM for EJ51000250**

No	Name of part	Part code	Quantity
1	Mesh Enclosure(Rear)	01573905P	1
2	Condenser Assy 1	01123902	1
3	Mesh Enclosure(Left)	01573904P	1
5	Fan and Motor Sub-Assy	15403906	1
6	Evaporator Assy	01023902	1
7	Filter Sub-Assy	01573907	2
8	Taper Sleeve	10548220	1
9	Belt Pulley	10548159	1
10	Belt SPA	76318264	2
11	Belt Pulley	10548157	1
12	Taper Sleeve	10548222	1
13	Motor	15018306	1
14	Adjective Pole	02169050	1
15	Compressor	00201118	2
16	Time Relay	44020422	2
17	Terminal Board	42010265	1
18	AC Contactor	44010214	1
19	AC Contactor	44010199	1
20	AC Contactor	44010280	2
21	Terminal Board	42010247	1
22	Relay	44020422	2
23	Terminal Board	42010258	1
24	Terminal Board	42010259	1
25	Terminal Board	42010259	1
26	Terminal Board	42011106	1
27	Terminal Board	42011147	1
28	Power Transformer	43110286	1
29	Anti-Phase Protector	46020052	1
30	Terminal Board	42011103	1
31	Original PCB Mounting Plate Sub-Assy	01323906	1
32	Connecting Sub-Assy 1	01393910	1
33	Connecting Sub-Assy 1	05023965	1
34	Connecting Sub-Assy 2	05023967	2
35	Capillary Sub-Assy 2	01393910	1
36	Capillary Sub-Assy 1	01393910	1
37	Discharge Charge Valve Sub-Assy 1	07333902	1
38	Discharge Charge Valve Sub-Assy 2	07333903	1

Model: GK-C20TC1AM views & parts list  
Unit exploded views



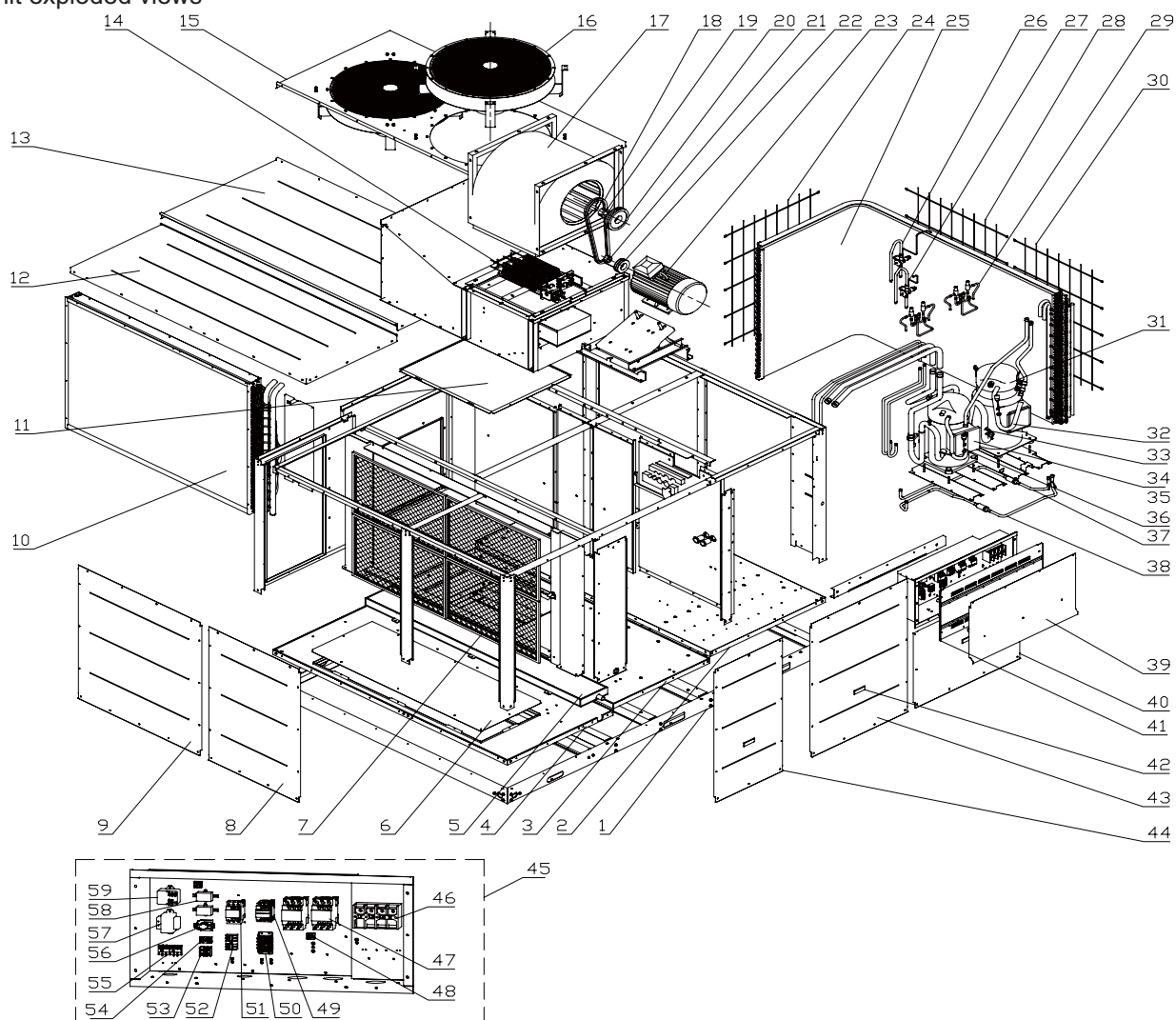
GK-C20TC1AM for EJ51000280

No	Name of part	Part code	Quantity
1	Base Frame Assy	01283976	1
2	Chassis Sub-Assy 3	01193912P3	1
3	Chassis Assy 2	01193910	1
4	Chassis Assy 1	01193908	1
5	Water Tray Assy	01283980	1
6	Air Return Cover Sub-Assy	01193908	1
7	Air Filter Sub-Assy	11723904	4
8	Front Side Plate Sub-Assy 1	01313960	1
9	Front Side Plate Sub-Assy	01313955	1
10	Evaporator Assy	01023918	1
11	Air Supply Cover Sub-Assy	0126393	1
12	Upper Cover Sub-Assy 1	01263940	1
13	Upper Cover Sub-Assy 2	01263942	1
14	Electric Heater	32103901	1
15	Upper Cover Assy 3	01263944	1



16	Axial Flow Fan Sub-Assy	15403914	2
17	Centrifugal Fan	15018309	1
18	Belt	76318268	2
19	Taper Sleeve	10548221	1
20	Belt Wheel	10548151	1
21	Taper Sleeve	10548216	1
22	Belt Wheel	10548160	1
23	Motor	15018306	1
24	Grill 1	01573911	1
25	Condenser Assy	01123911	1
26	Thermal Expansion Valve Sub-Assy 1	07333933	1
27	Thermal Expansion Valve Sub-Assy 2	07333934	1
28	Grill 2	01573912	1
29	Discharge Charge Valve Sub-Assy	07333923	2
30	Grill 3	01573913	1
31	Compressor And Fittings	00201111	2
32	Discharge Tube Sub-Assy	04633932	2
33	Inhalation Tube Sub-Assy	04673938	2
34	Filter Sub-Assy 2	07413909	1
35	Filter Sub-Assy 1	07413908	1
36	Electric Box Cover Welding Sub-Assy	01393952	1
37	Upper Side Plate	01313958P	1
38	Condenser Side Plate	01313959	1
39	Handle	2623525304	3
40	Right Side Plate Sub-Assy 1	01313950	1
41	Right Side Plate Sub-Assy 2	01313952	1
42	Electric Box Assy	01393955	1
43	Terminal Board	420102471	1
44	AC Contactor	44010213	1
45	Terminal Board	42011147	2
46	AC Contactor	44010232	1
47	Terminal Board	42010258	1
48	AC Contactor	44010214	2
49	Terminal Board	42010265	1
50	Terminal Board	42011103	1
51	Terminal Board	42011106	1
52	Terminal Board	42010259	1
53	Time Relay	44022202	1
54	Transformer	43110286	1
55	Relay	44020422	2
56	Phase Reverse Protector	46020052	1

Model: GK-C25TC1AM views & parts list  
Unit exploded views

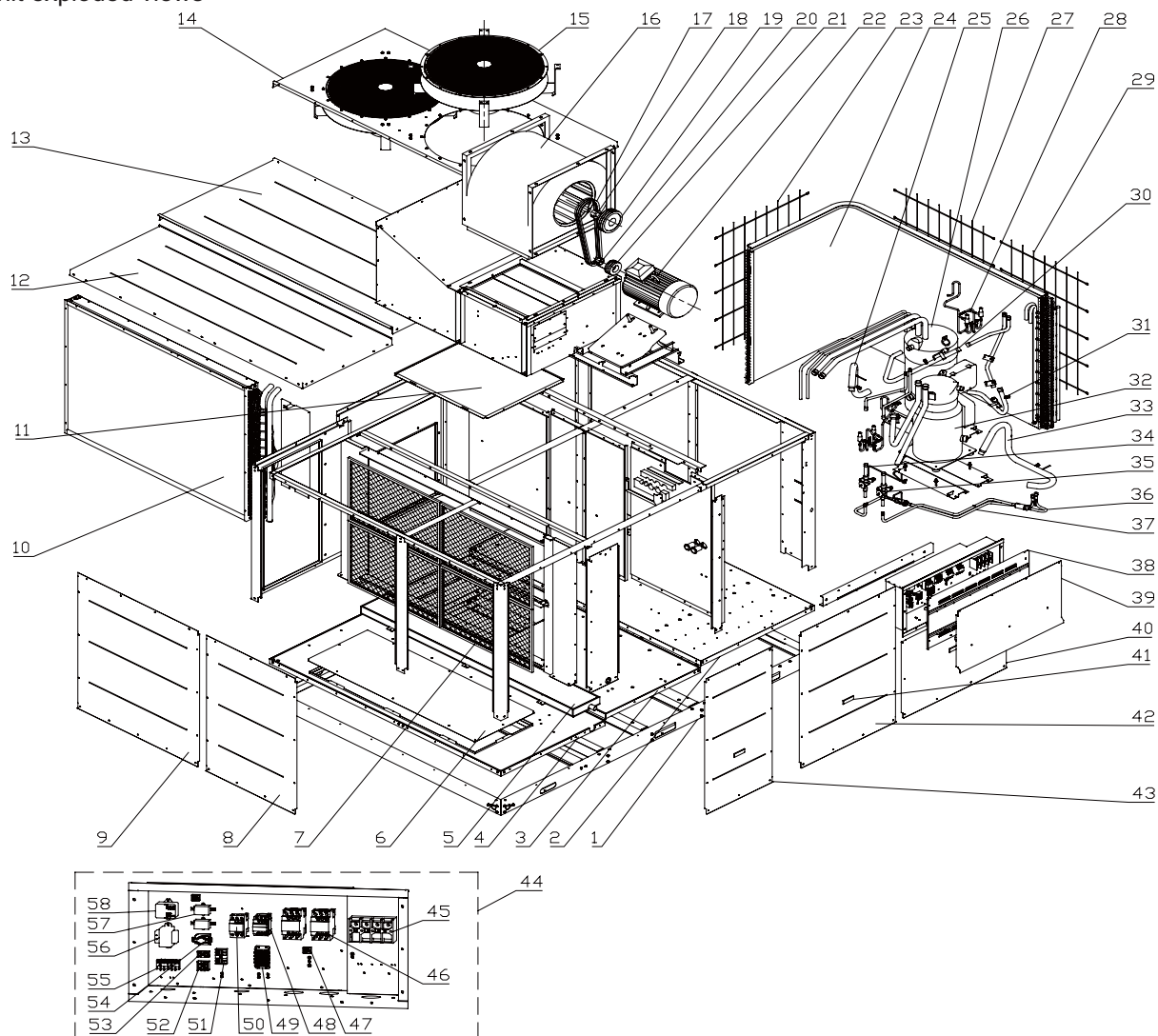


GK-C25TC1AM for EJ51000290

No	Name of part	Part code	Quantity
1	Base Frame Assy	01283976	1
2	Chassis Sub-Assy 3	01193912P	1
3	Chassis Assy 2	01193910	1
4	Chassis Assy 1	01193908	1
5	Water Tray Assy	01283980	1
6	Air Return Cover Sub-Assy	01263946	1
7	Air Filter Sub-Assy	11723904	4
8	Front Side Plate Sub-Assy 1	01313960	1
9	Front Side Plate Sub-Assy	01313955	1
10	Evaporator Assy	01023918	1
11	Air Supply Cover Sub-Assy	01263938	1
12	Upper Cover Sub-Assy 1	01263940	1
13	Upper Cover Sub-Assy 2	01263942	1
14	Electric Heater	32103901	1
15	Upper Cover Assy 3	01263944	1

16	Axial Flow Fan Sub-Assy	15403914	2
17	Centrifugal Fan	15018309	1
18	Belt	76318268	2
19	Taper Sleeve	10548216	1
20	Belt Wheel	10548151	1
21	Taper Sleeve	10548221	1
22	Belt Wheel	10548151	1
23	Motor	15018306	1
24	Grill 1	01573911	1
25	Condenser Assy	01123911	1
26	Thermal Expansion Valve Sub-Assy 1	07333931	1
27	Thermal Expansion Valve Sub-Assy 2	07333932	1
28	Grill 2	01573912	1
29	Discharge Charge Valve Sub-Assy	07333923	2
30	Grill 3	01573913	1
31	Compressor And Fittings	00108010	1
32	Discharge Tube Sub-Assy	04633933	1
33	Inhalation Tube Sub-Assy	04674010	1
34	Compressor And Fittings	00108009	1
35	Inhalation Tube Sub-Assy	04673941	1
36	Discharge Tube Sub-Assy	04633938	1
37	Filter Sub-Assy 2	07413909	1
38	Filter Sub-Assy 1	07413908	1
39	Upper Side Plate	01313958	1
40	Electric Box Cover Welding Sub-Assy	01393952	1
41	Condenser Side Plate	01313959	1
42	Handle	2623525304	3
43	Right Side Plate Sub-Assy 1	01313950	1
44	Right Side Plate Sub-Assy 2	01313952	1
45	Electric Box Assy	01393970	1
46	Terminal Board	420102471	1
47	AC Contactor	44010213	1
48	Terminal Board	42011147	2
49	AC Contactor	44010232	1
50	Terminal Board	42010258	1
51	AC Contactor	44010240	2
52	Terminal Board	42010265	1
53	Terminal Board	42011103	1
54	Terminal Board	42011106	1
55	Terminal Board	42010259	1
56	Time Relay	44022202	1
57	Transformer	43110286	1
58	Relay	44020422	2
59	Phase Reverse Protector	46020052	1

Model: GK-C30TC1AM views & parts list  
Unit exploded views

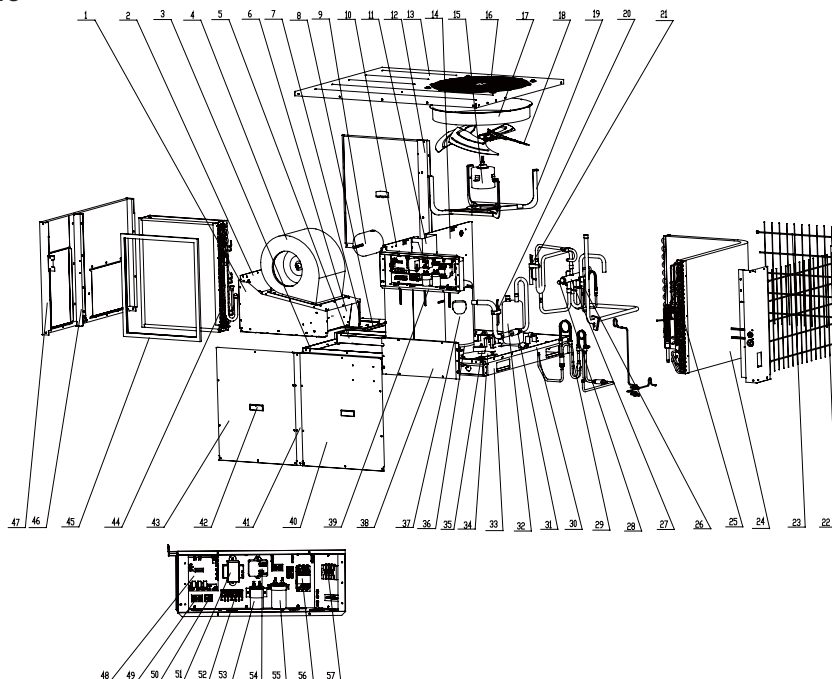


**GK-C30TC1AM for EJ51000450**

No	Name of part	Part code	Quantity
1	Base Frame Assy	01283976	1
2	Chassis Sub-Assy 3	01193911	1
3	Chassis Assy 2	01193910	1
4	Chassis Assy 1	01193908	1
5	Water Tray Assy	01283980	1
6	Air Return Cover Sub-Assy	01263946	1
7	Air Filter Sub-Assy	11723904	4
8	Front Side Plate Sub-Assy 1	01313960	1
9	Front Side Plate Sub-Assy	01313955	1
10	Evaporator Assy	01023918	1
11	Air Supply Cover Sub-Assy	01263938	1
12	Upper Cover Sub-Assy 1	01263940	1
13	Upper Cover Sub-Assy 2	01263942	1
14	Upper Cover Assy 3	01263944	1
15	Axial Flow Fan Sub-Assy	15403914	2

16	Centrifugal Fan	15018309	1
17	Belt	76318268	3
18	Taper Sleeve	10548224	1
19	Belt Wheel	10548172	1
20	Taper Sleeve	10548222	1
21	Belt Wheel	10548272	1
22	Motor	15018315	1
23	Grill 1	01573911	1
24	Condenser Assy	01123911	1
25	Inhalation Tube Sub-Assy 2	04673961	1
26	Compressor And Fittings	00205235	1
27	Grill 2	01573912	1
28	Discharge Charge Valve Sub-Assy	07333941	2
29	Grill 3	01573913	1
30	Discharge Tube Sub-Assy 2	04633945	1
31	Discharge Tube Sub-Assy 1	04633944	1
32	Compressor And Fittings	00108009	1
33	Inhalation Tube Sub-Assy 1	04673960	1
34	Thermal Expansion Valve Sub-Assy 2	07333943	1
35	Thermal Expansion Valve Sub-Assy 1	07333942	1
36	Filter Sub-Assy 1	07413915	1
37	Filter Sub-Assy 2	07413916	1
38	Electric Box Cover Welding Sub-Assy	01393952	1
39	Upper Side Plate	01313958	1
40	Condenser Side Plate	01313959	1
41	Handle	2623525304	3
42	Right Side Plate Sub-Assy 1	01313950	1
43	Right Side Plate Sub-Assy 2	01313952	1
44	Electric Box Assy	01393978	1
45	Terminal Board	42010247	1
46	AC Contactor	44010280	2
47	Terminal Board	42011147	2
48	AC Contactor	44010280	1
49	Terminal Board	42010258	1
50	AC Contactor	44010213	1
51	Terminal Board	42010265	1
52	Terminal Board	42011103	1
53	Terminal Board	42011106	1
54	Time Relay	44022202	1
55	Terminal Board	42010259	1
56	Transformer	43110286	1
57	Relay	44020422	2
58	Phase Reverse Protector	46020052	1

Model: GK-H05TC1AM views & parts list  
Unit exploded views

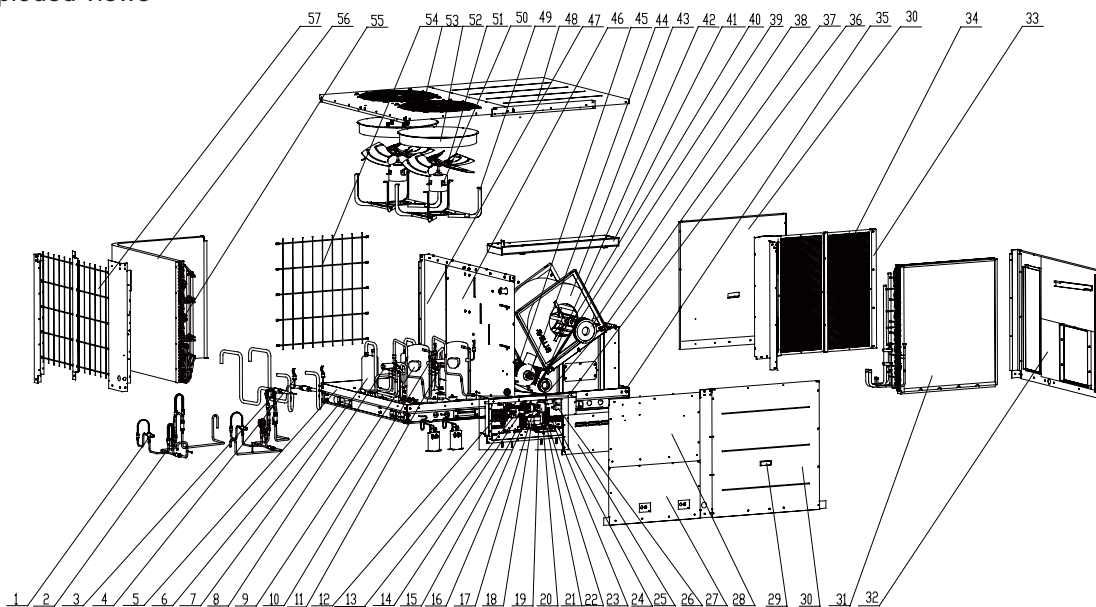


GK-H05TC1AM for EJ51000320

NO.	Name of Part	Part Code	Quantity
1	Air Box Side Plate	'01313909	1
2	Cover plate Assy of air box	'01263911	1
3	Chassis Sub-assy	'01193901	1
4	Motor for Centrifugal Fan	'15702205	1
5	Water Tray Sub-Assy	'01283905	1
6	Base Plate Sub- Assy of air box	'02223901	1
7	Air Box Side Plate	01313908	1
8	blowing- in cover plate sub- assy	'01263905	1
9	Fan Motor	'1570390103	1
10	Clapboard Sub-Assy	'01243912	1
11	Cover Plate Sub-Assy of Evaporator	'01263971	1
12	Left Column	'01853917P	1
13	Top Cover Board Sub-assy	'01263907	1
14	Clapboard Sub-Assy	'01243911	1
15	Fan Motor	'15703902	1
16	Grill	'01573702P	1
17	Diversion Circle	01523901P	1
18	Axial Flow Fan	'10453901	1
19	Mounting Board Sub-assy of Motor	'01323734P	1
20	Pressure Protect Switch	4602001532	1
21	high pressure switch	'4602001003	1
22	Rear Grill	'01573908P	1
23	Grill	'01573906P	1
24	Condenser Assy	01123935	1
25	Temperature Sensor	'3900020610G	1
26	Discharge charge Valve	'07335701	1
27	4-Way Valve	'43000407	1
28	Magnet Coil	'43040017	1

29	One way Valve	'07135431	1
30	Chassis Sub-assy	'01193903P	1
31	Gas Tube Filter	'07219051	1
32	Gas-liquid Separator	'07422203	1
33	Base Frame Sub-Assy	'01283907	1
34	Compressor Mounting Plate Sub-Assy	'01323901P	1
35	Compressor Gasket	'76710209	3
36	Electric Heater(Compressor)	'76515404	1
37	Compressor and fittings	'00205255	1
39	Electric Box Assy	'01393994	1
40	Right Side Plate Sub-Assy	'01313922	1
41	Rear Column	'01853920P	1
42	Handle	'2623525304	1
43	Side Plate	'01313911	2
44	Evaporator Assy	01023934	1
45	Filter Sub-Assy	'11723902	1
46	Column Sub-Assy	'01853916	1
47	Front Side Plate Sub-Assy	'01313910	1
48	Main Board	'30222103	1
49	Terminal Board	'42011103	3
50	Terminal Board	'42011147	1
51	Transformer	'43110286	1
52	Terminal Board	'42010259	1
53	Capacitor CBB65	'33010045	1
54	Phase Reverse Protector	'46020052	1
55	Capacitor CBB65	'33010044	1
56	AC Contactor	'44010255	1
57	Terminal Board	'42011043	1

Model: GK-H08TC1AM views & parts list  
Unit exploded views



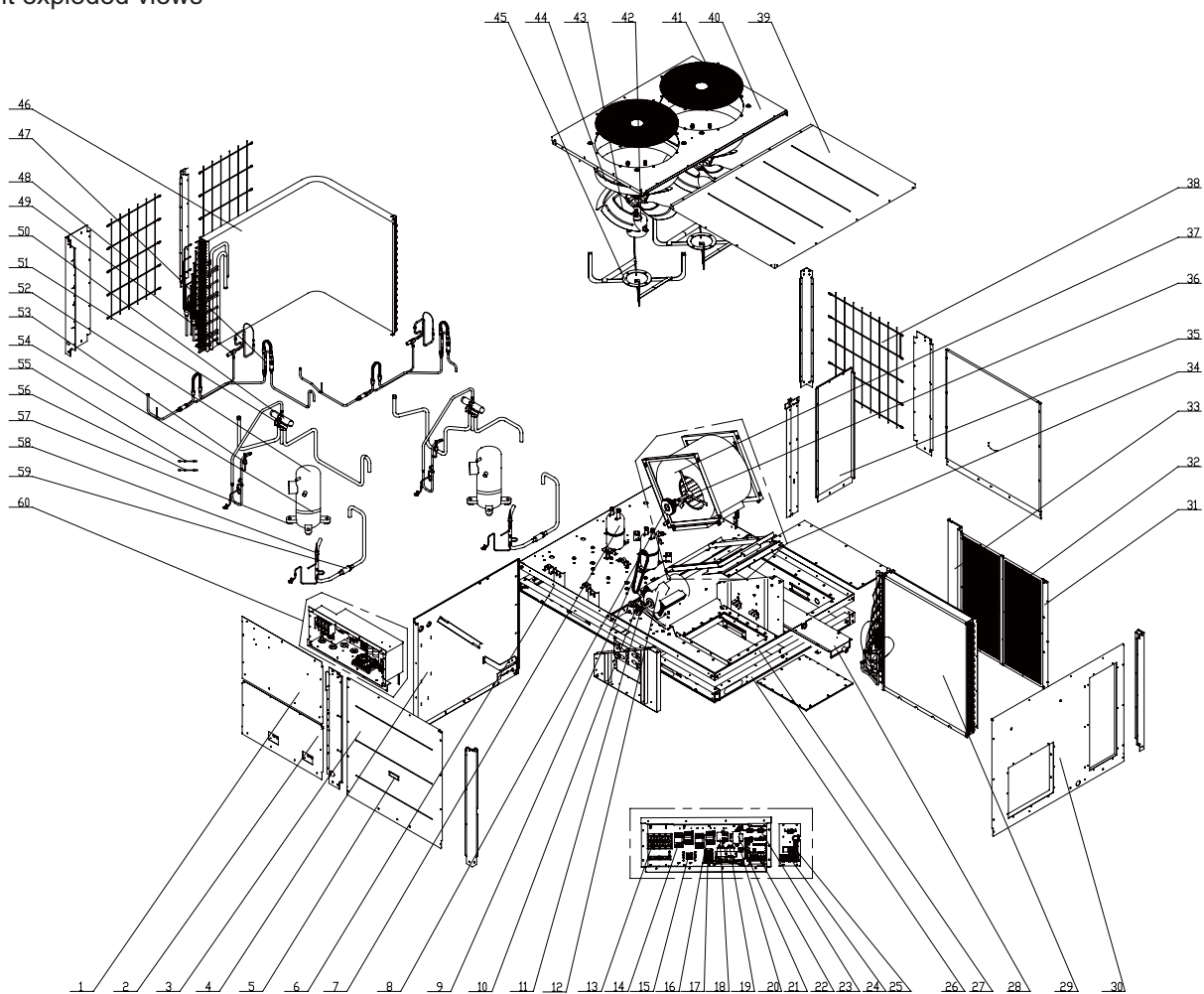
GK-H08TC1AM for EJ5100311

NO.	Name of Part	Part Code	Quantity
1	Discharge charge Valve	'07335701	1
2	Current Divider	'03410101	1
3	Gas Tube Filter	'07219051	1
4	Pressure Protect Switch	'4602001511	1
5	Seat Board Sub-Assy	'02223914P	1
6	Base Frame Assy	'01193904	1
7	Gas-liquid Separator	'07422203	2
8	4-Way Valve	'43000407	1
9	Compressor and fittings	'00205223	2
10	high pressure switch	'4602001003	1
11	Magnet Coil	'43040017	2
12	Terminal Board	'42010247	1
13	Thermal Overload Relay	'44020362	1
14	AC Contactor	'44010214	2
15	AC Contactor	'44010232	2
16	Terminal Board	'42010258	1
17	Phase Reverse Protector	'46020052	1
18	Capacitor CBB65	'33010045	2
19	Main Board	'30222103	1
20	Transformer	'43110286	1
21	Terminal Board	'42011103	4
22	Terminal Board	'42011106	1
23	Terminal Board	'42011147	1
24	Terminal Board	'42010259	1
25	Electric Box Cover Sub-Assy	'01263920	1
26	Relay	'44020422	3
27	Side panel sub-assy	'01563902P	1
28	Side panel sub-assy	'01543913P	1
29	Handle	'2623525304	2
30	Side panel sub-assy	'01543738	2
31	Evaporator Assy	'01023913	1
32	Front Panel Sub-Assy	'01543915	1
33	Guide track sub-assy	'01873972	1



34	Filter Sub-Assy	'01573707	2
35	Base Plate Assy	'02223918	1
36	Electric Box Assy	'01393986	1
37	Fan and Motor Sub-Assy	'15403916	1
38	Belt Wheel	'10546301	1
39	Belt	'76318260	2
40	Taper Sleeve	'10548213	1
41	Water Tray Sub-Assy	'01283924	1
42	Belt Wheel	'10548151	1
43	Motor	'15703183	1
44	Taper Sleeve	'10548218	1
45	Fan Motor	'1570390201	2
46	Mid Clapboard Sub-assy	'01243922	1
47	Mid Clapboard Sub-assy	'01243924	1
48	Top panel sub-assy	'01543743	1
49	Mounting Board Sub-assy of Motor	'01323734P	2
50	Fan Motor	'1501861102	1
51	Axial Flow Fan	'10453901	2
52	Diversion Circle	'01523901P	2
53	Rear Grill	'01573702P	2
54	Rear Grill	'01573708P	1
55	Temperature Sensor	'3900020610G	1
56	Condenser Assy	'01123912	1
57	Rear Grill	'0157370802P	2

Model: GK-H10TC1AM views & parts list  
Unit exploded views

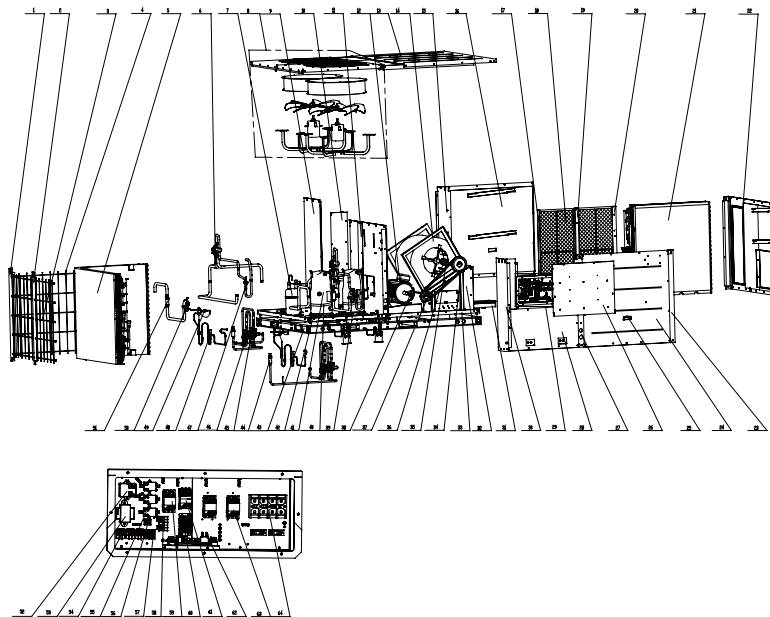


GK-H10TC1AM for EJ51000331

NO.	Name of Part	Part Code	Quantity
1	Side panel sub-assy	01543913P	1
2	Side panel sub-assy	01563902P	1
3	Side panel sub-assy	01543738	2
4	Mid Clapboard Sub-assy	01243922	1
5	Handle	2623525307	2
6	Seat Board Sub-Assy	02223919P	1
7	Gas-liquid Separator	07423902	2
8	Belt Wheel	10546301	1
9	Belt	76318259	2
10	Belt Wheel	10548153	1
11	Taper Sleeve	10548218	1
12	Fan Motor	1501861102	1
13	Terminal Board	42010247	1
14	AC Contactor	44010214	2
15	Terminal Board	42011106	1
16	AC Contactor	44010232	2
17	Terminal Board	4201025801	1
18	Phase Reverse Protector	46020052	1
19	Capacitor CBB65	33010045	2
20	Terminal Board	42011147	3
21	Transformer	43110286	1

22	Main Board	30221404	2
23	Relay	44028000002	3
24	Terminal Board	42010259	3
25	Terminal Board	42011103	2
26	Base Frame Assy	01193904	1
27	Base Plate Assy	02223918	1
28	Water Tray Sub-Assy	01283924	1
29	Evaporator Assy	01023900009	1
30	Front Panel Sub-Assy	01543915	1
31	Guide track sub-assy	01873972	1
32	Filter Sub-Assy	01573707	2
33	Mid Clapboard Sub-assy	01243929	1
34	Fan and Motor Sub-Assy	15403916	1
35	Mid Clapboard Sub-assy	01243924	1
36	Taper Sleeve	10548213	1
37	Motor	15703183	1
38	Rear Grill	0157370806P	1
39	Top panel sub-assy	01543743	1
40	Top Cover Plate Sub-Assy	01263900008	1
41	Rear Grill	01573702P	2
42	Fan Motor	1570390201	2
43	Axial Flow Fan	10453901	2
44	Diversion Circle	01523901P	2
45	Mounting Board Sub-assy of Motor	01323734P	2
46	Condenser Assy	01123900006	1
47	One way Valve	07135431	2
48	Rear Grill	0157370802P	2
49	Discharge charge Valve	07335701	2
50	4-Way Valve	43000405	2
51	Magnet Coil	43040017	2
52	Compressor and fittings	00205255	2
53	high pressure switch	4602001003	1
54	Electric Heater(Compressor)	76515404	2
55	Discharge sensor	3900012129	2
56	Tube sensor	390002078	1
57	Compressor Gasket	76710209	4
58	Pressure Protect Switch	4602001511	1
59	Gas Tube Filter	07219051	1
60	Electric Box Assy	01393900035	1

Model: GK-H15TC1AM views & parts list  
Unit exploded views

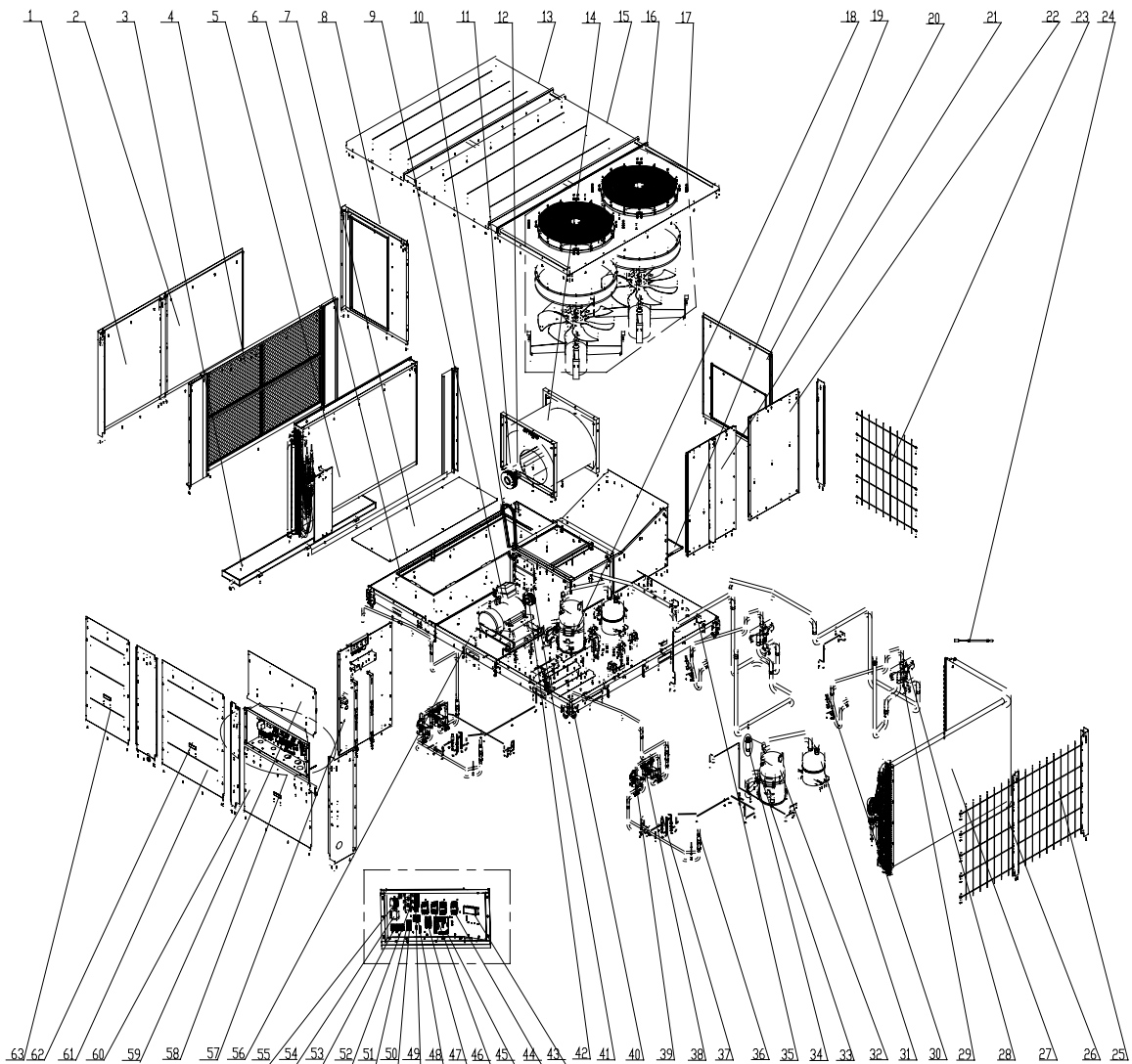


GK-H15TC1AM for EJ51000340

NO.	Name of Part	Part Code	Quantity
1	Column	01853991P	1
2	Column	01853994P	1
3	Grill	'01573905P	1
4	Grill	01573924P	1
5	Condenser Assy	01123936	1
6	4-Way Valve	'430004061	1
7	Gas-liquid Separator	'07424144	2
8	Motor for Axial Fan Sub- Assy	15403946	1
9	Mid-clapboard sub-assy	01243920	1
10	Mid-clapboard sub-assy	01243908	1
11	Mid-clapboard sub-assy	01243907	1
12	Fan Motor	'1501830604	1
13	Top Panel Sub-Assy	01543904	1
14	Motor	'15018317	1
15	Column	01853993P	1
16	Side Panel Sub-Assy	01543903	1
17	Guide Strip	01873931P	1
18	Filter Sub-Assy	'01573907	2
19	Guide Strip	01873928P	1
20	Guide Strip Sub-Assy	01873968	1
21	Evaporator Assy	01023935	1
22	Front Panel Sub-Assy	01543901	1
23	Column Sub-Assy	01853914	2
24	Side Panel Sub-Assy	01543902	1
25	Handle	'2623525304	1
26	Electric Box Cover Sub-Assy	01423913P	1
27	Column	01853911P	1
28	Side Panel Sub-Assy	01563906P	1
29	Electric Box Assy	'01393991	1
30	Column	01853992P	1
31	Water Tray Sub-Assy	01283909	1

32	Fan and Motor Sub-Assy	15403906	1
33	Base Plate Assy	02223907	1
34	Belt Wheel	'10548159	1
35	Taper Sleeve	'10548220	1
36	Belt	'76318385	2
37	Belt Wheel	'10548154	1
38	Taper Sleeve	'10548216	1
39	Installation Supporting Frame	01803932	1
40	Electrical Heater	'76515211	2
41	Compressor and fittings	'00201118	2
42	Seat Board Sub-Assy	02224015P	1
43	Base Frame Assy	01283908	1
44	Bidirection Strainer	'07210044	1
45	One way Valve	'07135801	2
46	Thermal Expansion Valve	'07331152	2
47	high pressure switch	'4602001004	1
48	Discharge charge Valve	'07335701	1
49	StrainerA	'07210022	1
50	Pressure Protect Switch	'460200151	1
51	Filter	'07218603	1
52	Phase Reverse Protector	'46020052	1
53	Transformer	'43110286	1
54	Terminal Board	'42010259	1
55	Relay	'44020422	3
56	Terminal Board	'42011147	2
57	Terminal Board	'42011103	4
58	Terminal Board	'42010265	1
59	AC Contactor	'44010214	2
60	Terminal Board	'42010258	1
61	AC Contactor	'44010232	1
62	Main Board	'30222103	1
63	AC Contactor	'44010213	1
64	Terminal Board	'42010247	1

Model: GK-H20TC1AM views & parts list  
Unit exploded views

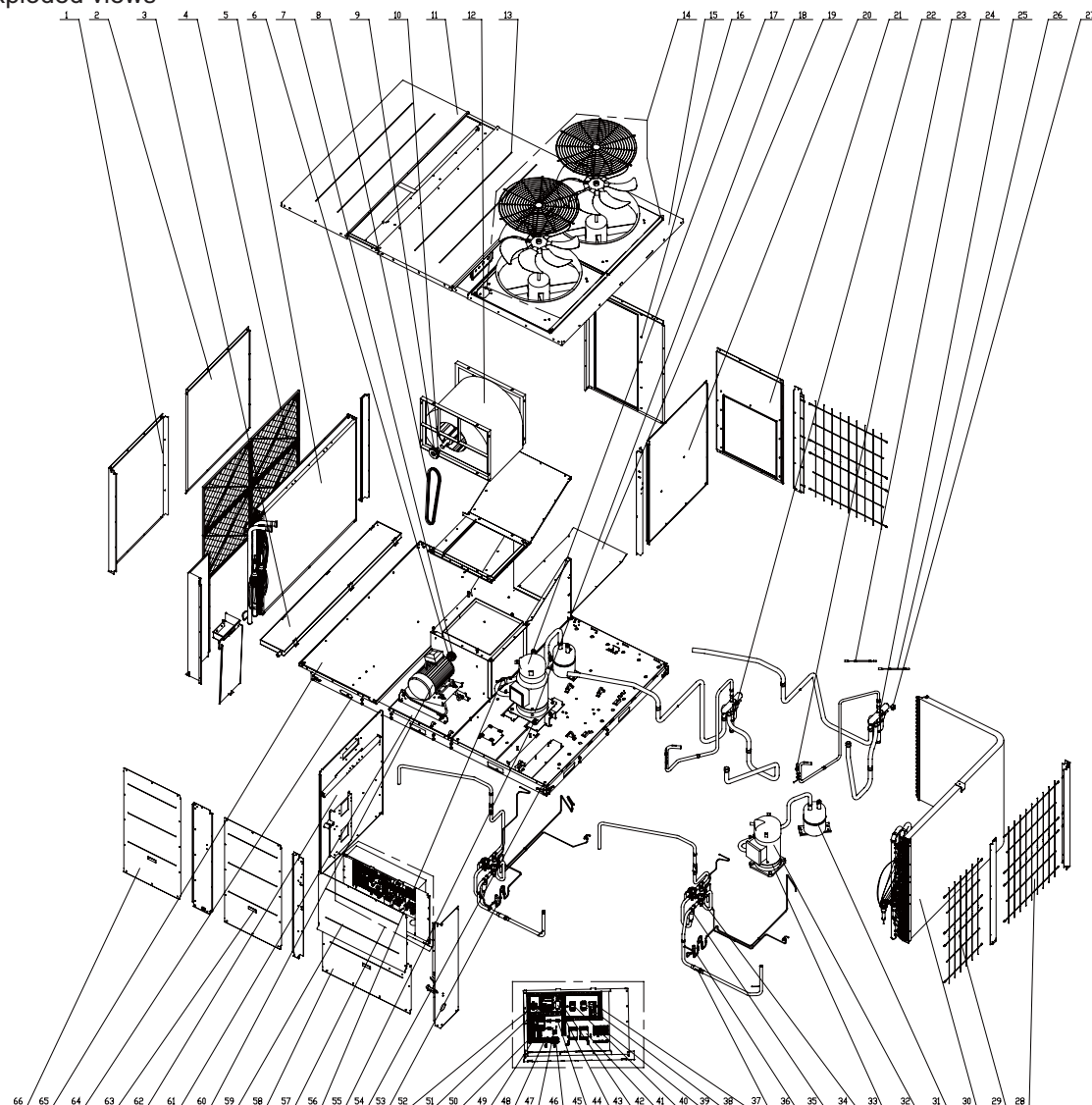


GK-H20TC1AM for EJ51000350

NO.	Name of Part	Part Code	Quantity
1	Front Side Plate Sub-Assy	01313960	1
2	Front Side Plate Sub-Assy	01313955	1
3	Water Tray Assy	01283980	1
4	Filter Sub-Assy	11723904	4
5	Evaporator Assy	01023938	1
6	Chassis Assy	01193908	1
7	cover plate Assy for air returning	01263946	1
8	Side Plate Assy for Air Returning	01313945	1
9	Fan Motor	1501830604	1
10	Belt	76318268	2
11	Belt Wheel	10548160	1
12	Taper Sleeve	10548221	1
13	Top Cover Board Sub-assy	01263940	1
14	Motor	15018309	1
15	Top Cover Board Sub-assy	01263942	1
16	Top Cover Board Assy	01263944	1
17	Motor for Axial Fan Sub- Assy	15403914	2
18	Electrical Heater	76515211	2

19	Cover Plate Sub-Assy for Supply Air	01263938	1
20	Side Plate Assy for Supply Air	01313948	1
21	Clapboard assy	01243937	1
22	Clapboard assy	01243935	1
23	Grill	01573911P	1
24	Tube sensor	3900020612	1
25	Grill 2	01573912P	1
26	Grill	01573926P	1
27	Condenser Assy	01123941	1
28	Magnet Coil	43040017	2
29	4-way Valve	43000409	1
30	high pressure switch	4602001004	1
31	Gas-liquid Separator	07421111	2
32	Compressor and fittings	00201111	2
33	Pressure Protect Switch	460200151	1
34	Filter	07219058	1
35	Chassis Sub-assy	01193912P	1
36	Gas Tube Filter	07219051	1
37	Discharge charge Valve	07335701	1
38	One way Valve	07139054	2
39	Thermal Expansion Valve	07331154	2
40	Base Frame Assy	01283976	1
41	Belt Wheel	10548151	1
42	Taper Sleeve	10548216	1
43	Terminal Board	420102471	1
44	AC Contactor	44010214	2
45	Main Board	30222103	1
46	AC Contactor	44010213	2
47	Terminal Board	4201025801	1
48	Terminal Board	42010265	1
49	Terminal Board	42011147	2
50	Terminal Board	42011106	1
51	Terminal Board	42011103	4
52	Relay	44020422	3
53	Terminal Board	42010259	1
54	Transformer	43110286	1
55	Phase Reverse Protector	46020052	1
56	Chassis Assy	01193910	1
57	Clapboard assy	01243939	1
58	Electric Box Assy	01394044	1
59	Upper Side Plate	01313958P	1
60	Condenser Side Plate	01313959P	1
61	Right Side Plate Sub-Assy	01313950	1
62	Handle	2623525304	3
63	Right Side Plate Sub-Assy	01313952	1

Model: GK-H25TH1AM views & parts list  
Unit exploded views



GK-H25TC1AM for EJ51000361

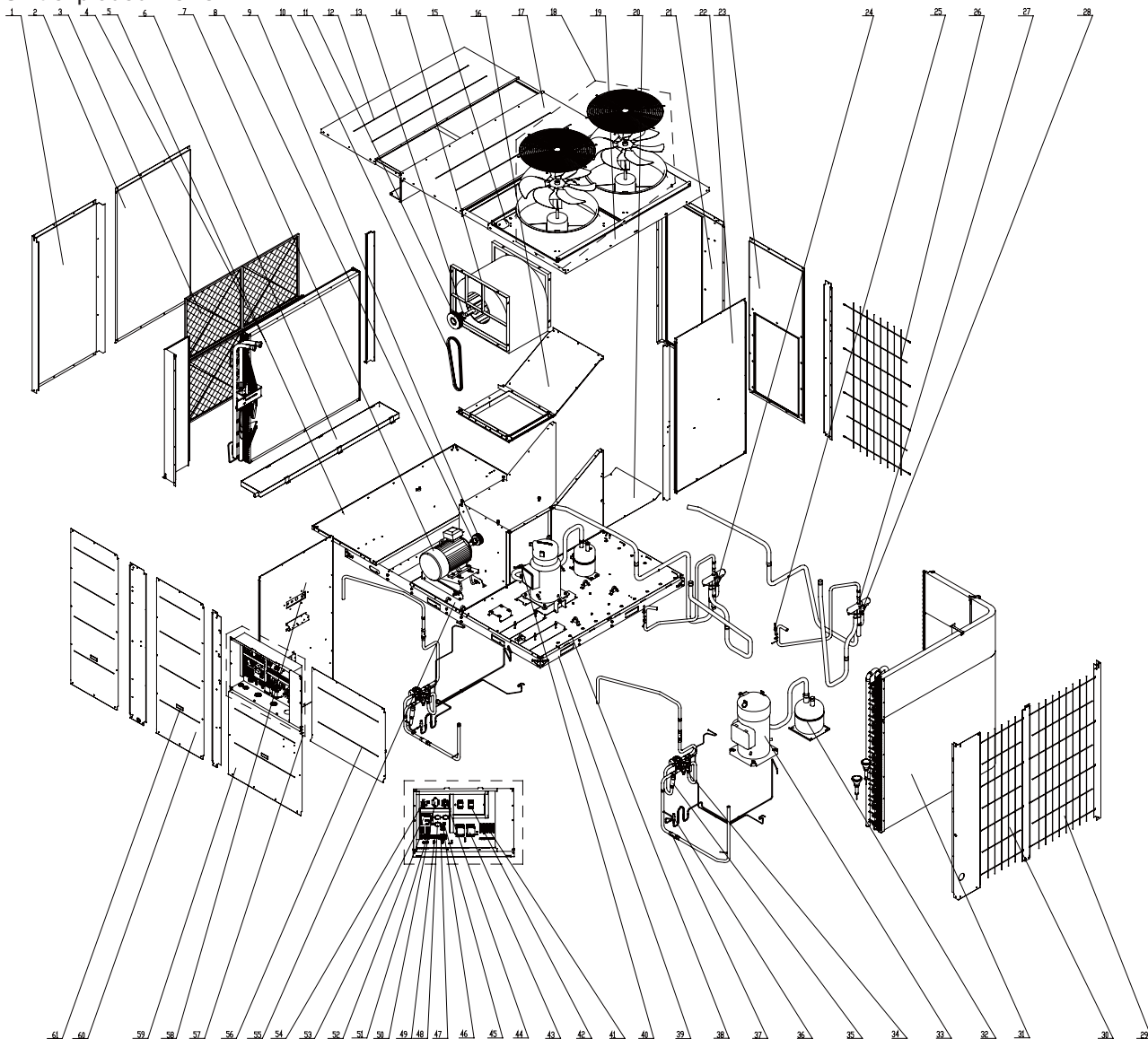
NO.	Name of Part	Part Code	Quantity
1	Front Standing Pillar Sub-Assy	01853900022	1
2	Front Side Plate Sub-Assy	01313900016	1
3	Drain Pan Assy	01284078	1
4	Filter Sub-Assy	11723900005	4
5	Evaporator Assy	01023900007	1
6	Taper Sleeve	10548227	1
7	Belt Wheel	10548272	1
8	Belt	76318260	3
9	Belt Wheel	10548172	1
10	Taper Sleeve	10548222	1
11	Top Cover Board Sub-assy	01263990	1
12	Fan Motor	15008254	1
13	Top Cover Board Sub-assy	01263991	1
14	Axial Fan Sub-Assy	15403951	2
15	Top Cover Board Assy	01263992	1
16	Side Plate Assy for Air Returning	01313900014	1
17	Compressor and Fittings	00108009	1



18	Electrical Heater	76518731	2
19	Base Plate of Air Box	02224044P	1
20	Middle Clapboard Sub-Assy	01243900005	1
21	Side Plate Assy for Supply Air	01313900015	1
22	Gas Tube Filter	07219057	2
23	High Pressure Switch	46020010	2
24	Temperature Sensor	3900012136	2
25	4-way Valve	43000409	2
26	Tube Sensor	3900020612	1
27	Magnet Coil	43040017	2
28	Grill	01573900004P	4
29	Grill	01573900003P	2
30	Condenser Assy	01123900007	1
31	Gas-liquid Separator	07421111	2
32	Compressor and Fittings	00108010	1
33	Electrical Heater	01123900007	1
34	Thermal Expansion Valve	07331155	4
35	Check Valve	07138101	4
36	Unloading Valve	07335701	2
37	Filter	07218603	4
38	Over Current Protector	46020121	1
39	AC Contactor	44010232	1
40	Terminal Board	42010247	1
41	AC Contactor	44010213	1
42	AC Contactor	44010240	2
43	Terminal Board	42011147	1
44	Transformer	43110286	1
45	Relay	44028000002	3
46	Terminal Board	4201025801	1
47	Terminal Board	42011106	1
48	Terminal Board	42010265	1
49	Terminal Board	42010259	3
50	Terminal Board	42011103	4
51	Main Board	30221404	2
52	Phase Reverse Protector	46020052	1
53	Filter	0721302601	2
54	Chassis Sub-assy	01193922P	1
55	Compressor Gasket	02118049	3
56	Pressure Protection Switch	4602001550	2
57	Electric Box Assy	01393900031	1
58	Under Side Plate	01313900010P	1
59	Upper Side Plate	01313900008P	1
60	Motor	1501831505	1
61	Chassis Assy	01193920	1
62	Middle Clapboard Assy	01243900006`	1
63	Handle	2623525307	3
64	Base Frame Assy	01284074	1
65	Chassis Assy	01193919	1
66	Right Side Plate Sub-Assy	01313900017	2

Model: GK-H30TH1AM views & parts list

Unit exploded views



GK-H30TC1AM for EJ51000370

NO.	Name of Part	Part Code	Quantity
1	Front Standing Pillar Sub-Assy	01854008	1
2	Front Side Plate Sub-Assy	01313998	1
3	Filter Sub-Assy	11723915	4
4	Evaporator Assy	01023900002	1
5	Chassis Assy	01193919	1
6	Water Tray Assy	01284078	1
7	Motor	1501831405	1
8	Taper Sleeve	10548229	1
9	Belt Wheel	10548169	1
10	Belt	76318258	3
11	Top Cover Board Sub-assy	01263990	1
12	Belt Wheel	10548172	1
13	Taper Sleeve	10548227	1
14	Fan Motor	15008254	1
15	Electric Box	/	1
16	Cover Board Sub-assy of Air Box	01263986P	1
17	Top Cover Board Sub-assy	01263991	1

18	Axial Fan Sub-Assy	15403951	2
19	Top Cover Board Assy	01263992	1
20	Base Plate of Air Box	02224044P	1
21	Side Plate Assy for Air Returning	01314039	1
22	Middle Clapboard Sub-Assy	01243955	1
23	Side Plate Assy for Supply Air	01313999	1
24	Gas Tube Filter	07219057	2
25	High Pressure Switch	46020010	2
26	Grill	01573911P	1
27	4-way Valve	43000409	2
28	Magnet Coil	43040017	2
29	Grill	01573912P	1
30	Grill	01573926P	1
31	Condenser Assy	01123900001	1
32	Gas-liquid Separator	07421111	2
33	Compressor and Fittings	00205235	1
		00108009	1
34	Thermal Expansion Valve	07331156	4
35	Check Valve	07138101	4
36	Unloading Valve	07335701	2
37	Filter	07218603	4
38	Chassis Sub-assy	01193922P	1
39	Base Frame Assy	01284074	1
40	Pressure Protection Switch	4602001550	2
41	Terminal Board	42010247	1
42	AC Contactor	44010214	2
43	AC Contactor	44010280	2
44	Phase Reverse Protector	46020052	1
45	Terminal Board	42011147	2
46	Terminal Board	42011106	1
47	Terminal Board	4201025801	1
48	Relay	44020422	3
49	Terminal Board	42010265	1
50	Transformer	43110286	1
51	Terminal Board	42010259	3
52	Terminal Board	42011103	4
53	Main Board	30222103	1
54	Time Relay	44022202	1
55	Chassis Assy	01193920	1
56	Upper Side Plate Sub-assy	01314048P	1
57	Electric Box Assy	01394039	1
58	Middle Clapboard Assy	01243956	1
59	Under Side Plate	01313993P	1
60	Right Side Plate Sub-Assy	01313996	2
61	Handle	2623525307	3



JF00300689

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