

TECHNICAL SERVICE MANUAL

— **Floor Standing Type**

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Jinji West Rd. Qianshan Zhuhai

Guangdong China

Introduction

In this technical service manual, you will find rich references to Floor Standing Type products, including photos, technical specifications, explosive views, spare parts lists and circuit diagrams. Service people and engineers of Gree's customers and distributors would find it a very handy source of technical information of our products.

Technical Support Department
GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
Nov. 2002

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Floor Standing Type

1.Summary



figure 1

MODEL	NOTE
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KF-70LW/E (7032LA) D KFR-70LW/E (7052LA) D	3Ph 380V 50Hz R22 With light panel
KF-70LW/E (7033L) D KFR-70LW/E(7053L) D	3Ph 380V 50Hz R22 With LCD panel
KT3F-70LW/E1(7033L1) KT3FR-70LW/E1(7053L1)	TROPICAL AIR-CONDITIONER 1Ph 220V 60Hz R22
KT3F-70LW/A10 12205 KT3FR-70LW/A10 12205	TROPICAL AIR-CONDITIONER 1Ph 220V 50Hz R22

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figure 2

MODEL

NOTE

KF-120LW/E (1232LA) V KFR-120LW/E (1252LA) V	3Ph 380V 50Hz R22 With light panel
KF-120LW/E (1233L) V KFR-120LW/E(1253L) V	3Ph 380V 50Hz R22 With LCD panel
KT3F-120LW/E(1233L) KT3FR-120LW/E(1253L)	TROPICAL AIR-CONDITIONER 3Ph 220V 60Hz R22
KT3F-120LW/A10-33805 KT3FR-120LW/A10-33805	TROPICAL AIR-CONDITIONER 3Ph 380V 50Hz R22
GSV48-22L GSV60-22L	3Ph 220V 60Hz R22

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2. Technical specifications

Table 1

Model				KF-70LW/E(7032LA)D	KFR-70LW/E(7052LA)D
				KF-70LW/E(7033L)D	KFR-70LW/E(7053L)D
Function				Cooling	Cooling Heating
Power supply				3Ph 380V 50Hz	
Capacity		W		7000	7000 7400(9600)
Rated input		W		2900	2900 2600(4850)
Rated current		A		6.0	6.0 5.7(9.56)
Air flow		M³/h		900	
Dehumidifying volume(L/h)		L/h		2.8	
EER (W/W)				2.35	2.35 2.85
Indoor unit	Motor Model			LN50B	
	Motor fan speed(r/min)			385/355/315	
	Output power(W)			50	
	Working capacitor(μF)			4.5	
	Fan type/piece			Centrifugal fan-1	
	Diameter-length(mm)			φ 378-130	
	evaporator			Aluminum fin-copper tube	
	Row-fin distance(mm)			2-1.5	
	Working area(mm × mm)			763 × 430	
	Swing motor			SM016	
	Input power(W)-speed(r/min)			5-5	
	Fuse(A)			Controllor 3.15A Transformer 0.2A	
	Noise(dB(A))			48	
	Dimension(width-depth-height)mm			540 × 300 × 1750	
	Net weight(kg)			50	
Outdoor unit	Compressor	type			reciprocating compressor
		Model			AVA5535EXG AVA5535EXG
		Input power (W)			2842 2842
		Overload protector			out set
		L.R.A. (A)			33
		Working temp.			Exhaust temperature ≤ 143.3℃
		Starting method			
	Condenser	Condenser			Aluminum-copper
		Pipe-diameter			φ 9.52
		Row-fin distance			2-1.8
		Working area (mm × mm)			840 × 760
	Fan	Fan motor model			LW60B
		Output power			60
		Fan motor speed(rpm)			780
		Capacitor μF			3
		Fan type/piece			Axial fan-1
		Fan Diameter (mm)			φ 455
	High pressure switch	Model			HZOPS-B3.0/2.4Mpa or YK-3.0/2.4MPa
		Cutoff pressure			3.0 ± 0.15MPa
		Restart pressure			2.4 ± 0.15MPa
	Throttling method			Capillary	
	Defrosting method			Auto defrost	
	Noise dB(A)			58	
	Dimension(mm)(Width-height-depth)			950 × 840 × 412	
	Net weight(kg)			75	
	Refrigerant charge(kg)			R22 2.5	
Connecting pipe	Outer diameter	Liquid pipe	mm	φ 3/8"	
		Gas pipe	mm	φ 5/8"	
	Standard length		m	5	
	Max distance	height	m	15	
			Length	40	

The technical data are subject to change without notice .Please refer to the nameplate of the unit.

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Table 2

Model				KF-120LW/E(1232LA)V	KFR-120LW/E(1252LA)V
				KF-120LW/E(1233L)V	KFR-120LW/E(1253L)V
Function				Cooling	Cooling Heating
Power supply				3Ph 380V 50Hz	
Capacity		W		12000	12000 12000(15500)
Rated input		W		4900	4900 4300(7800)
Rated current		A		8.5	8.5 7.4(12.8)
Air flow		M ³ /h		1500	
Dehumidifying volume(L/h)		L/h		4.8	
EER (W/W)				2.45	2.45 2.79
Indoor unit	Model Model			LN100B	
	Motor fan speed(r/min)			530/490/460	
	Output power(W)			100	
	Working capacitor(μF)			4.5	
	Fan type/piece			Centrifugal fan-1	
	Diameter-length(mm)			φ 378-180	
	evaporator			Aluminum fin-copper tube	
	Row-fin distance(mm)			2-1.4	
	Working area(mm × mm)			838 × 430	
	Swing motor			SM016	
	Input power(W)-speed(r/min)			5-5	
	Fuse(A)			Controllor 3.15A Transformer 0.2A	
	Noise(dB(A))			57	
	Dimension(width-depth-height)mm			540 × 380 × 1750	
	Net weight(kg)			58	
Outdoor unit	Compressor	type			reciprocating compressor
		Model			C-SB373H8A C-SB373H8A
		Input power (W)			5200 5200
		Overload protector			out set
		L.R.A. (A)			62
		Working temp.			Exhaust temperature ≤ 115℃
		Starting method			1R
	Condenser	Condenser			Aluminum-copper
		Pipe-diameter			φ 9.52
		Row-fin distance			3-1.8
		Wirjulg area (mm × mm)			1218 × 683
	Fan	Fan motor model			LW68A
		Output power			68
		Fan motor speed(rpm)			840
		Capacitor μF			3.5
		Fan Diameter (mm)			φ 455
	High pressure switch	Model			HZOPS-B3.0/2.4Mpa or YK-3.0/2.4MPa
		Cutoff pressure			3.0 ± 0.15MPa
		Restart pressure			2.4 ± 0.15MPa
	Throttling method			Capillary	
	Defrosting method			Auto defrost	
	Noise dB(A)			61	
	Dimension(mm)(Width-height-depth)			950 × 1250 × 412	
	Net weight(kg)			112	
	Refrigerant charge(kg)			R22 3.8	
Connecting pipe	Outer diameter	Liquid pipe	m m	φ 3/4"	
		Gas pipe	m m	φ 1/2"	
	Standard length		m	5	
	Max distance	height	m	15	
		Length	m	40	

The technical data are subject to change without notice .Please refer to the nameplate of the unit.

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Table 3

Model				KT3F-70LW/E1(7033L1)	KT3FR-70LW/E1(7053L1)	
Function				Cooling	Cooling	Heating
Power supply				1Ph 220V 60Hz		
Capacity		W		7000	7000	8200(9400)
Rated input		W		3200	3200	2800(4000)
Rated current		A		15.3	15.3	13.2(18.7)
Air flow		M³/h		930		
Dehumidifying volume(L/h)		L/h		2.8		
EER (W/W)				2.19	2.19	2.92
Indoor unit	Motor Model			LN50P		
	Motor fan speed(r/min)			385/355/315		
	Output power(W)			50		
	Working capacitor(μF)			4.5		
	Fan type/piece			Centrifugal fan-1		
	Diameter-length(mm)			φ 378-130		
	evaporator			Aluminum fin-copper tube		
	Row-fin distance(mm)			2-1.5		
	Working area(mm × mm)			763 × 430		
	Swing motor			SM016		
	Input power(W)-speed(r/min)			5-5		
	Fuse(A)			Controllor 3.15A transformer 0.2A		
	Noise(dB(A))			48		
	Dimension(width-depth-height)mm			540 × 300 × 1750		
	Net weight(kg)			50		
Outdoor unit	Compres- sor	type			reciprocating compressor	
		Model			H24B28QABCA	H24B28QABCA
		Input power (W)			2842	2842
		Overload protector			out set	
		L.R.A. (A)			33	
		Working temp.			Exhaust temperature ≤ 143.3℃	
		Starting method				
	Condenser	Condenser			Aluminum-copper	
		Pipe-diameter			φ 9.52	
		Row-fin diatance			1.8	
		Working area (mm × mm)			840 × 760	
	Fan	Fan motor model			FW60N	
		Output power			60	
		Fan motor speed(rpm)			780	
		Capacitor μF			3	
		Fan type/piece			Axial flow-1	
		Fan Diameter (mm)			φ 455	
	High pressure switch	Model			YK-3.5/2.4MPa	
		Cutoff pressure			3.5 ± 0.15MPa	
		Restart pressure			2.4 ± 0.15MPa	
	Throttling method				Capillary	
	Defrosting method				Auto defrost	
	Noise dB(A)				58	
	Dimension(mm)(Width-height-depth)				840 × 950 × 412	
	Net weight(kg)				75	
	Refrigerant charge(kg)				R22 2.15/2.25	
Connecting pipe	Outer diameter	Liquid pipe	m m	φ 3/8"		
		Gas pipe	m m	φ 5/8"		
	Standard length		m	5		
	Max distance	height	m	15		
		Length	m	40		

The technical data are subject to change without notice .Please refer to the nameplate of the unit.

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Table 4

Model				KT3F-120LW/E(1233L)	KT3FR-120LW/E(1253L)	
Function				Cooling	Cooling	Heating
Power supply				3Ph 220V 60Hz		
Capacity		W		12000	12000	12500(15050)
Rated input		W		4900	4900	4300(6850)
Rated current		A		14.0	14.0	12.3(19.0)
Air flow		M³/h		1600		
Dehumidifying volume		L/h		4.8		
EER (W/W)				2.45	2.45	2.90
Indoor unit	Motor Model			LN100P		
	Motor fan speed(r/min)			530/490/460		
	Output power(W)			100		
	Working capacitor(μF)			4.5		
	Fan type/piece			Centrifugal fan-1		
	Diameter-length(mm)			φ 378-180		
	evaporator			Aluminum fin-copper tube		
	Row-fin distance(mm)			2-1.4		
	Working area(mm × mm)			838 × 430		
	Swing motor			SM016		
	Input power(W)-speed(r/min)			5-5		
	Fuse(A)			Controllor 3.15A transformer 0.2A		
	Noise(dB(A))			57		
	Dimension(width-depth-height)mm			540 × 380 × 1750		
	Net weight(kg)			58		
Outdoor unit	Compres- sor	type			reciprocating compressor	
		Model			H23A46QDBLA	H23A46QDBLA
		Input power (W)			5200	5200
		Overload protector			out set	
		L.R.A. (A)			62	
		Working temp.			Exhaust temperature ≤ 115℃	
		Starting method			1R	
	Condenser	Condenser			Aluminum-copper	
		Pipe-diameter			φ 9.52	
		Row-fin diance			3-1.8	
		Working area (mm × mm)			1218 × 683	
	Fan	Fan motor model			LW68P	
		Output power			68	
		Fan motor speed(rpm)			840	
		Capacitor μF			3.5	
		Fan type/piece			Axial flow-2	
		Fan Diameter (mm)			φ 455	
	High pressure switch	Model			YK-3.5/2.4MPa	
		Cutoff pressure			3.5 ± 0.15MPa	
		Restart pressure			2.4 ± 0.15MPa	
	Throttling method				Capillary	
	Defrosting method				Auto defrost	
	Noise dB(A)				61	
	Dimension(mm)(Width-height-depth)				950 × 1250 × 412	
	Net weight(kg)				112	
	Refrigerant charge(kg)				R22 4.2/4.3	
Connecting pipe	Outer diameter	Liquid pipe	m m	φ 1/2"		
		Gas pipe	m m	φ 3/4"		
	Standard length		m	5		
	Max distance	height	m	15		
		Length	m	40		

The technical data are subject to change without notice .Please refer to the nameplate of the unit.

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Table 5

Model				KT3F-70LW/A10 12205	KT3FR-70LW/A10 12205	
Function				Cooling	Cooling	Heating
Power supply				1Ph 220V 50Hz		
Capacity		W		7000	7000	7600(8800)
Rated input		W		2950	2950	2990(4050)
Rated current		A		14.2	14.3	14.3(18.8)
Air flow		M³/h		960		
Dehumidifying volume		L/h		2.8		
EER (W/W)				2.37	2.34	2.67
Indoor unit	Motor Model			LN50B		
	Motor fan speed(r/min)			385/355/315		
	Output power(W)			50		
	Working capacitor(μF)			4.5		
	Fan type/piece			Centrifugal fan-1		
	Diameter-length(mm)			φ 378-130		
	evaporator			Aluminum fin-copper tube		
	Row-fin distance(mm)			2-1.5		
	Working area(mm × mm)			763 × 430		
	Swing motor			SM016		
	Input power(W)-speed(r/min)			5-5		
	Fuse(A)			Controllor 3.15A transformer 0.2A		
	Noise(dB(A))			48		
	Dimension(width-depth-height)mm			540 × 300 × 1750		
	Net weight(kg)			50		
Outdoor unit	Compres- sor	type			reciprocating compressor	
		Model			CK32K3-PFZ-101	CK32K3-PFZ-101
		Input power (W)			2842	2842
		Overload protector			out set	
		L.R.A. (A)			33	
		Working temp.			Exhaust temperature ≤ 143.3℃	
		Starting method				
	Condenser	Condenser			Aluminum-copper	
		Pipe-diameter			φ 9.52	
		Row-fin dittance			1.8	
		Working area (mm × mm)			840 × 760	
	Fan	Fan motor model			FW60L	
		Output power			60	
		Fan motor speed(rpm)			780	
		Capacitor μF			3	
		Fan type/piece			Axial flow-1	
		Fan Diameter (mm)			φ 455	
		High pressure switch	Model			YK-3.5/2.4MPa
	Cutoff pressure			3.2 ± 0.15MPa		
	Restart pressure			2.4 ± 0.15MPa		
	Throttling method				Capillary	
	Defrosting method				Auto defrost	
	Noise dB(A)				58	
	Dimension(mm)(Width-height-depth)				840 × 950 × 412	
	Net weight(kg)				75	
	Refrigerant charge(kg)				R22 2.35/2.4	
Connecting pipe	Outer diameter	Liquid pipe	m m	φ 3/8"		
		Gas pipe	m m	φ 5/8"		
	Standard length		m	5		
	Max distance	height	m	15		
		Length	m	40		

The technical data are subject to change without notice .Please refer to the nameplate of the unit.

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Table 6

Model				KT3F-120LW/A10-33805	KT3FR-120LW/A10-33805	
Function				Cooling	Cooling	Heating
Power supply				3Ph 380V 50Hz		
Capacity		W		12000	12000	12000
Rated input		W		4700	4700	4200(7700)
Rated current		A		8.2	8.3	7.4(12.7)
Air flow		M³/h		1600		
Dehumidifying volume		L/h		4.8		
EER (W/W)				2.55	2.55	2.85
Indoor unit	Motor Model			LN100B		
	Motor fan speed(r/min)			530/490/460		
	Output power(W)			100		
	Working capacitor(μF)			4.5		
	Fan type/piece			Centrifugal fan-1		
	Diameter-length(mm)			φ 378-180		
	evaporator			Aluminum fin-copper tube		
	Row-fin distance(mm)			2-1.4		
	Working area(mm × mm)			838 × 430		
	Swing motor			SM016		
	Input power(W)-speed(r/min)			5-5		
	Fuse(A)			Controllor 3.15A transformer 0.2A		
	Noise(dB(A))			57		
	Dimension(width-depth-height)mm			540 × 380 × 1750		
	Net weight(kg)			58		
Outdoor unit	Compressor	type			reciprocating compressor	
		Model			CR53KQ-TFD-240BC	CR53KQ-TFD-240BC
		Input power (W)			4490	4490
		Overload protector			out set	
		L.R.A. (A)			62	
		Working temp.			Exhaust temperature ≤ 115℃	
		Starting method			1R	
	Condenser	Condenser			Aluminum-copper	
		Pipe-diameter			φ 9.52	
		Row-fin diance			3-1.8	
		Working area (mm × mm)			1218 × 683	
	Fan	Fan motor model			LW68A	
		Output power			68	
		Fan motor speed(rpm)			840	
		Capacitor μF			3.5	
		Fan type/piece			Axial flow-2	
		Fan Diameter (mm)			φ 455	
	High pressure switch	Model			YK-3.2/2.4MPa	
		Cutoff pressure			3.2 ± 0.15MPa	
		Restart pressure			2.4 ± 0.15MPa	
	Throttling method				Capillary	
	Defrosting method				Auto defrost	
	Noise dB(A)				61	
	Dimension(mm)(Width-height-depth)				950 × 412 × 1250	
	Net weight(kg)				112	
	Refrigerant charge(kg)				R22 3.8/4.2	
Connecting pipe	Outer diameter	Liquid pipe	m m	φ 1/2"		
		Gas pipe	m m	φ 3/4"		
	Standard length		m	5		
	Max distance	height	m	15		
		Length	m	40		

The technical data are subject to change without notice .Please refer to the nameplate of the unit.

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Table 7

Model				GSV48-22L		
Function				Cooling		
Power supply				3Ph 220V 60Hz		
Capacity		W		14000		
Rated input		W		4570		
Rated current		A		13.5		
Air flow		M³/h		1600		
Dehumidifying volume		L/h		7.2		
EER (W/W)				2.45		
Indoor unit	Motor Model			LN100P		
	Motor fan speed(r/min)			550/490/460r/min		
	Output power(W)			100W		
	Working capacitor(μF)			4.5 μF/450V		
	Fan type/piece			Centrifugal fan-1		
	Diameter-length(mm)			φ 379-180		
	evaporator			Aluminum fin-copper tube		
	Row-fin distance(mm)			3-1.4		
	Working area(mm × mm)			838.2 × 430		
	Swing motor			SM016		
	Input power(W)-speed(r/min)			5-5		
	Fuse(A)			Controllor 5A		
	Noise(dB(A))			58		
	Dimension(width-depth-height)mm			540 × 380 × 1750		
	Net weight(kg)			58		
Outdoor unit	Compressor	type			reciprocating compressor	
		Model			CRLQ-0350-TF5-501	
		Input power (W)			4470	
		Overload protector			INt set	
		L.R.A. (A)			84	
		Working temp.			Exhaust temperature ≤ 120℃	
	Condenser	Condenser			Aluminum-copper	
		Pipe-diameter			φ 9.52	
		Row-fin dittance			2-1.8	
		Working area (mm × mm)			1218 × 683	
	Fan	Fan motor model			LW68P	
		Output power			68W	
		Fan motor speed(rpm)			940r/min	
		Capacitor			3.5 μF/450V	
		Fan type/piece			Axial flow-2	
		Fan Diameter (mm)			φ 460	
	High pressure switch	Model			H20PS-B3.0/2.4Mpa or YK-3.0/2.4MPa	
		Cutoff pressure			3.0 ± 0.15MPa	
		Restart pressure			2.4 ± 0.15MPa	
	Throttling method				Capillary	
	Defrosting method				Auto defrost	
	Noise dB(A)				62	
	Dimension(mm)(Width-height-depth)				950 × 412 × 1250	
	Net weight(kg)				112	
	Refrigerant charge(kg)				R22 4.4	
Connecting pipe	Outer diameter	Liquid pipe	m m	φ 3/4"		
		Gas pipe	m m	φ 1/2"		
	Standard length		m	5		
	Max distance	height	m	10		
		Length	m	45		

The technical data are subject to change without notice .Please refer to the nameplate of the unit.

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Table 8

Model				GSV60-22L		
Function				Cooling		
Power supply				3Ph 220V 60Hz		
Capacity		W		16000		
Rated input		W		6500		
Rated current		A		15.5		
Air flow		M³/h		2000		
Dehumidifying volume		L/h		7.5		
EER (W/W)				2.15		
Indoor unit		Motor Model		LN130T(220V/60Hz)		
		Motor fan speed(r/min)		640/580/520r/min		
		Output power(W)		130W		
		Working capacitor(μF)		7 μF/500V		
		Fan type/piece		Centrifugal fan-1		
		Diameter-length(mm)		φ 378-180		
		evaporator		Aluminum fin-copper tube		
		Row-fin distance(mm)		3-1.8		
		Working area(mm × mm)		914.4 × 470		
		Swing motor		SM018		
		Input power(W)-speed(r/min)		5-5		
		Fuse(A)		Controllor 3.15A transformer 0.2A		
		Noise(dB(A))		59		
		Dimension(width-depth-height)mm		580 × 390 × 1850		
		Net weight(kg)		60		
Outdoor unit	Compres- sor		type		reciprocating compressor	
			Model		C-SB373H3A	
			Input power (W)		5500	
			Overload protector		INt set	
			L.R.A. (A)		85	
			Working temp.		Exhaust temperature ≤ 120℃	
	Condenser		Condenser		Aluminum-copper	
			Pipe-diameter		φ 9.52	
			Row-fin diance		3-1.8	
			Working area (mm × mm)		1218 × 683	
	Fan		Fan motor model		LW92P(220V/60Hz)	
			Output power		92W	
			Fan motor speed(rpm)		940r/min	
			Capacitor		4 μF/500V	
			Fan type/piece		Axial flow-2	
			Fan Diameter (mm)		φ 455	
	High pressure switch		Model		H20PS-B3.0/2.4Mpa or YK-3.0/2.4MPa	
			Cutoff pressure		3.0 ± 0.15MPa	
			Restart pressure		2.4 ± 0.15MPa	
	Throttling method				Capillary	
	Defrosting method				Auto defrost	
	Noise dB(A)				64	
	Dimension(mm)(Width-height-depth)				950 × 412 × 1250	
	Net weight(kg)				112	
	Refrigerant charge(kg)				R22 5.5	
Connecting pipe		Outer diameter	Liquid pipe	m m	φ 3/4"	
			Gas pipe	m m	φ 1/2"	
		Standard length		m	5	
		Max distance	height	m	10	
			Length	m	20	

The technical data are subject to change without notice .Please refer to the nameplate of the unit.

3. Outlines and dimensions of indoor unit

For 70 model

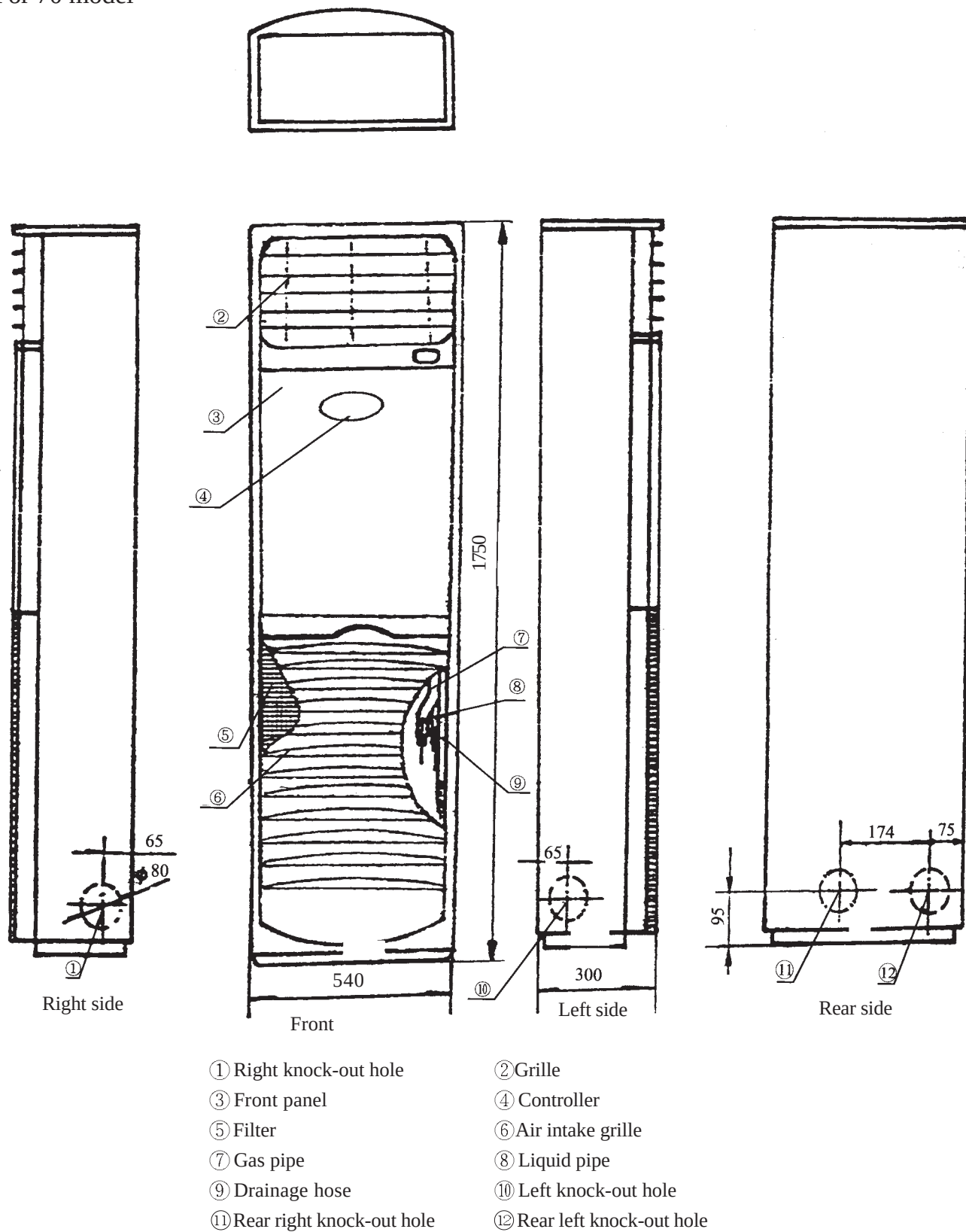


figure 3

Floor Standing Type

For 120 model and GSV48-22L

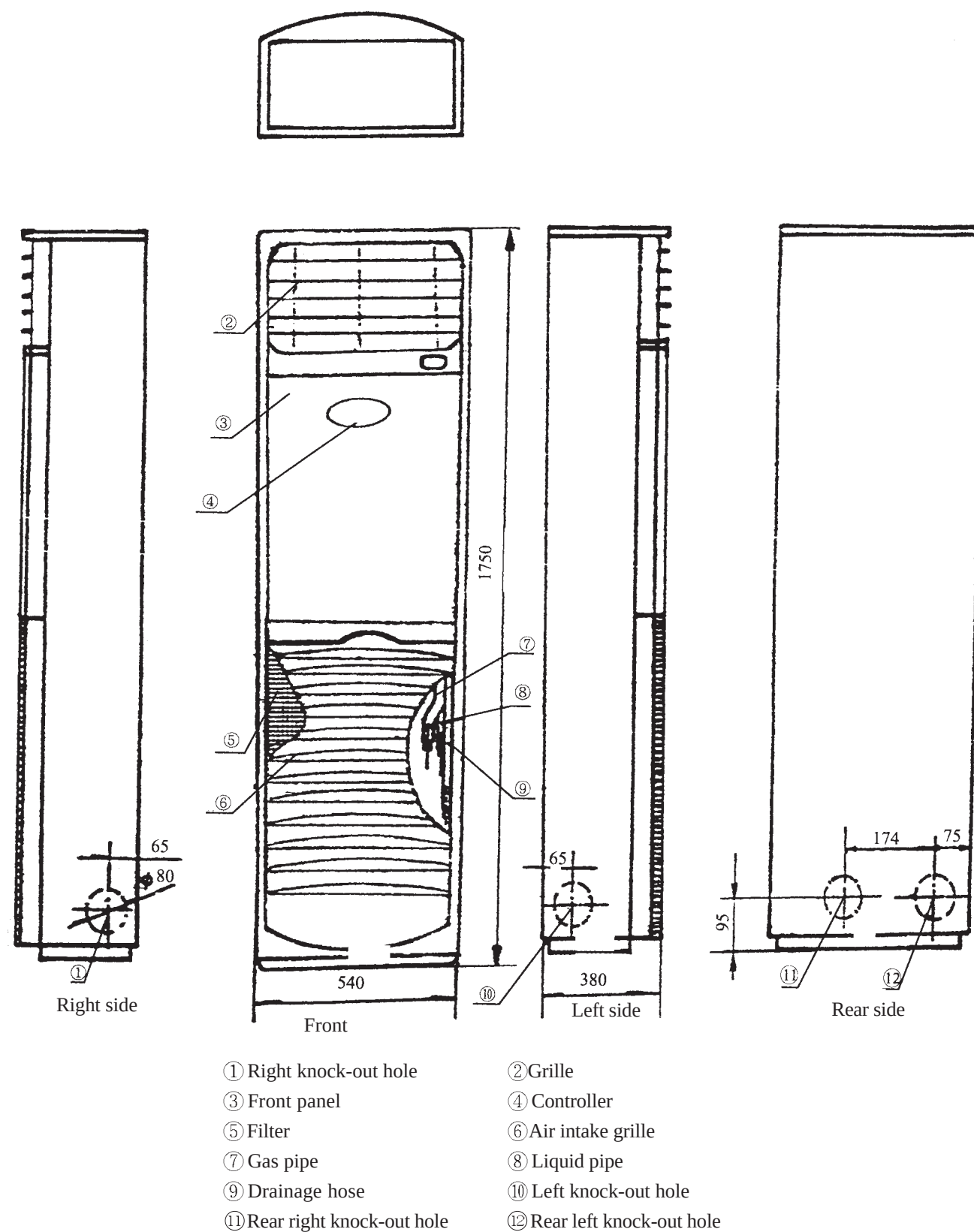


figure 4

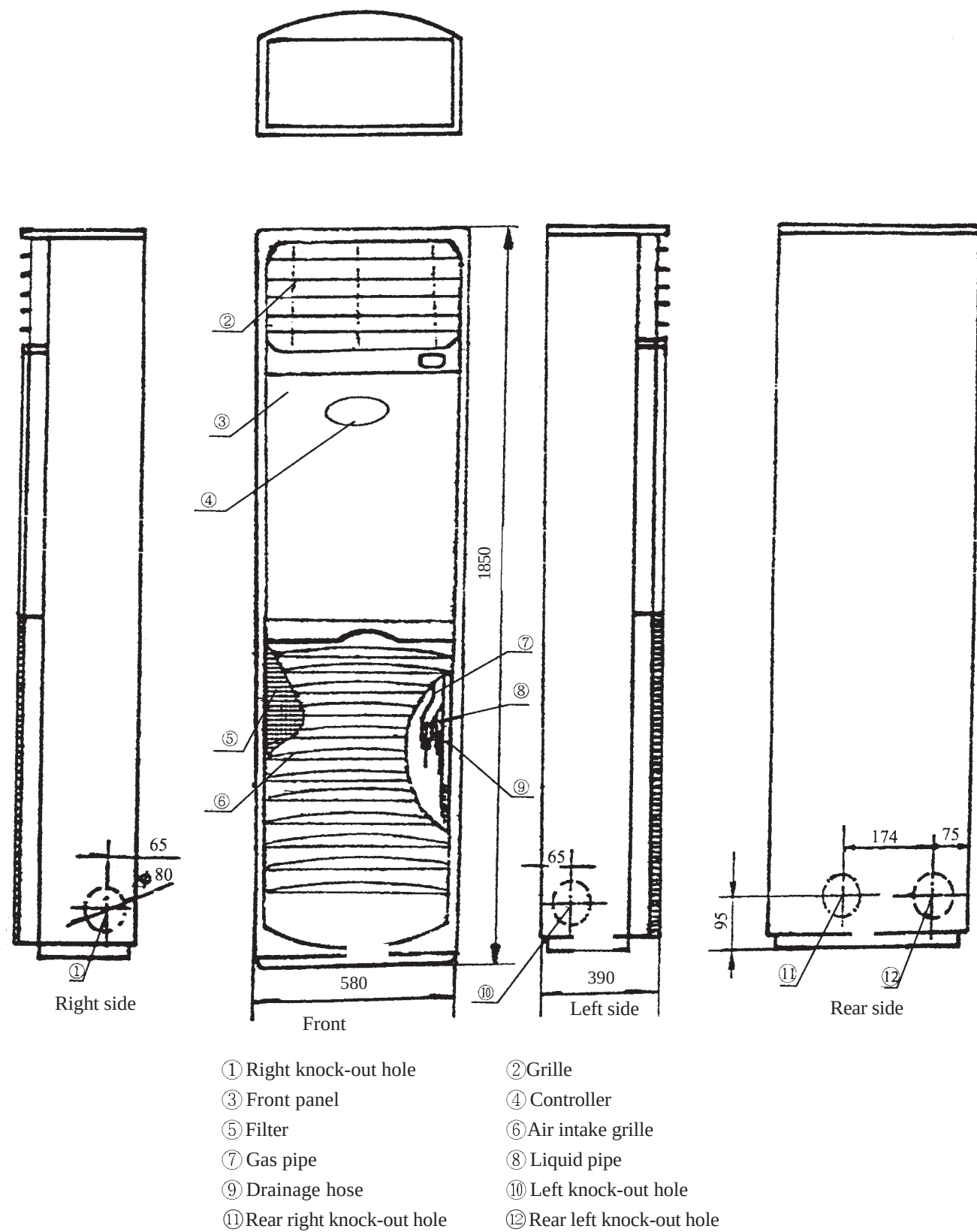
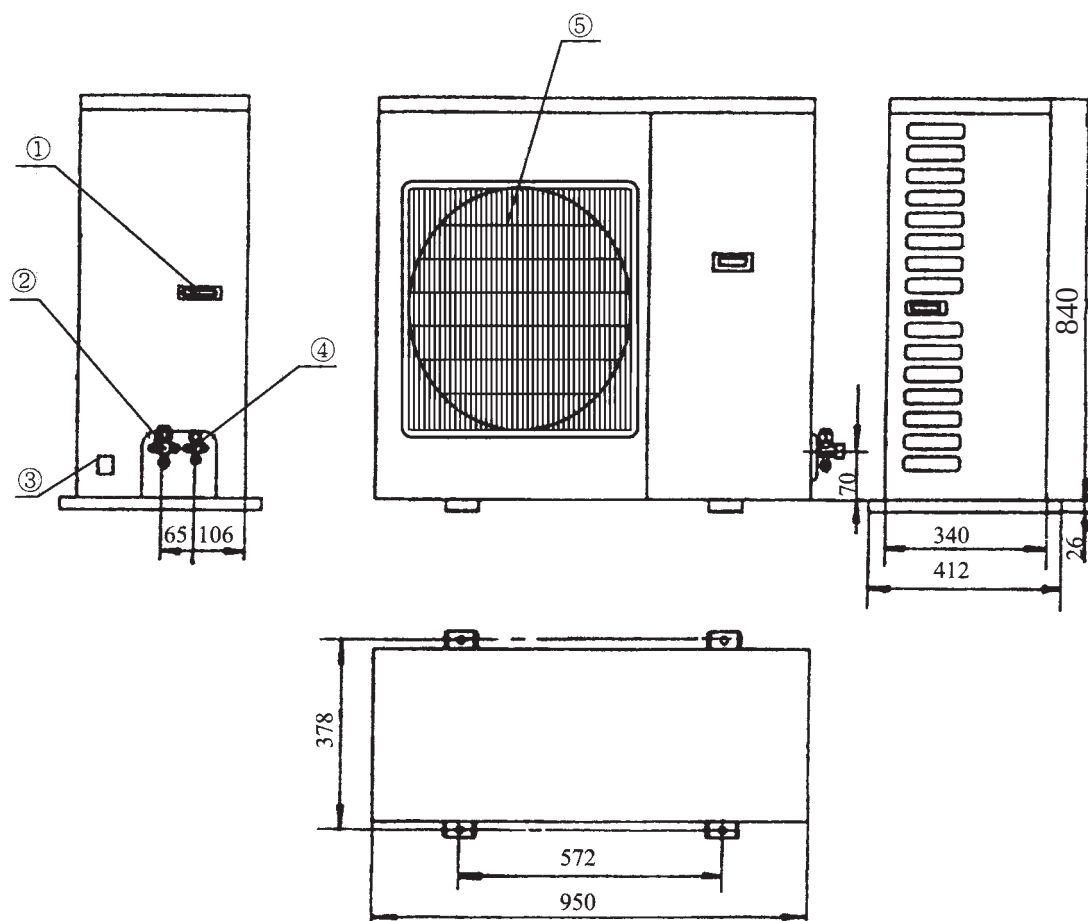


figure 5

4. Outlines and dimensions of outdoor unit

For 70 model

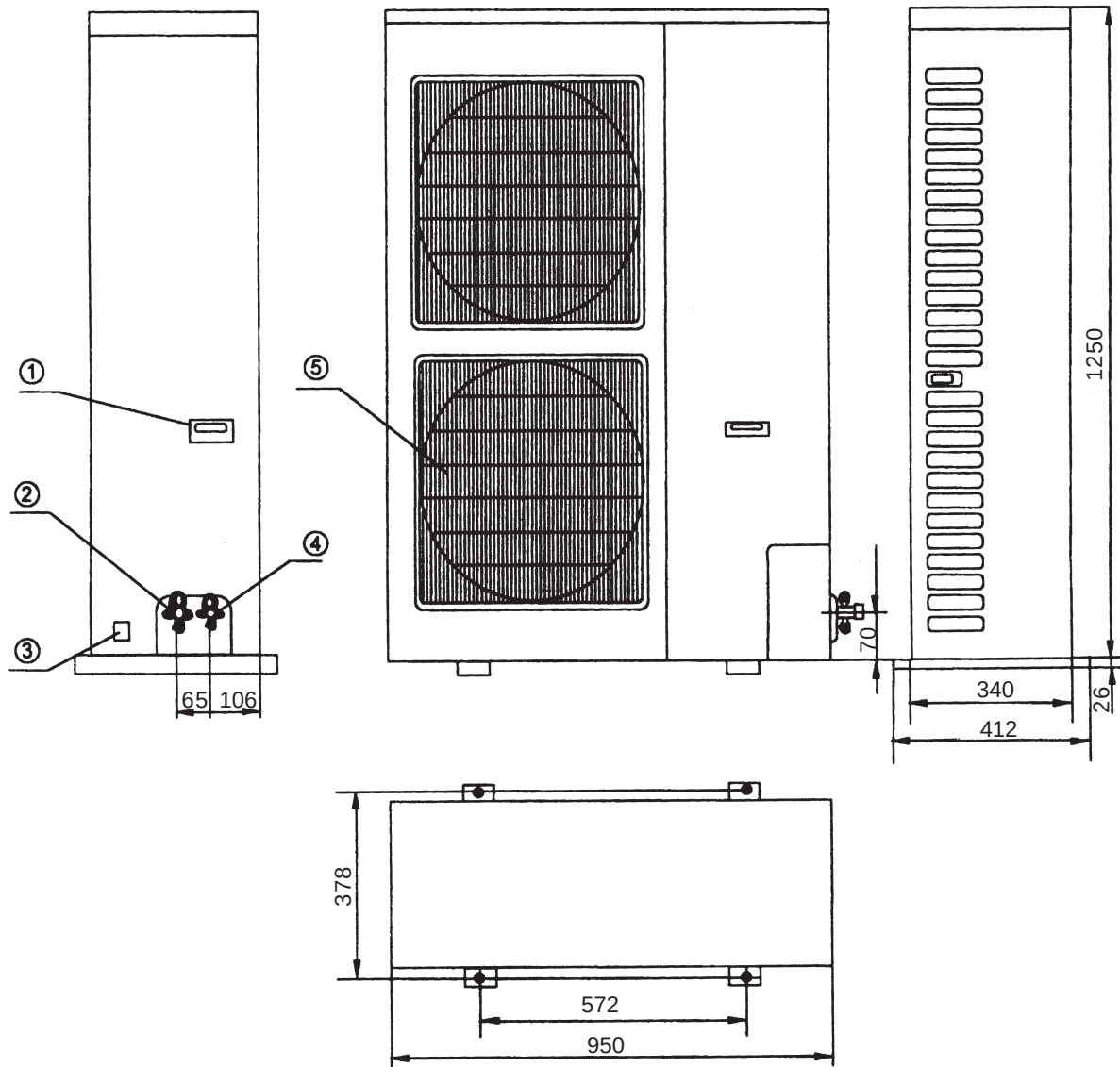


①Handle ②Gas valve assy ③Wire hole ④Liquid valve assy ⑤Grille

figure 6

Floor Standing Type

For 120 model 、GSV48-22L 、GSV60-22L



- ①Handle ②Gas valve assy ③Wire hole ④Liquid valve assy ⑤Grille

figure 7

5. Explosive view and spare parts list of indoor unit

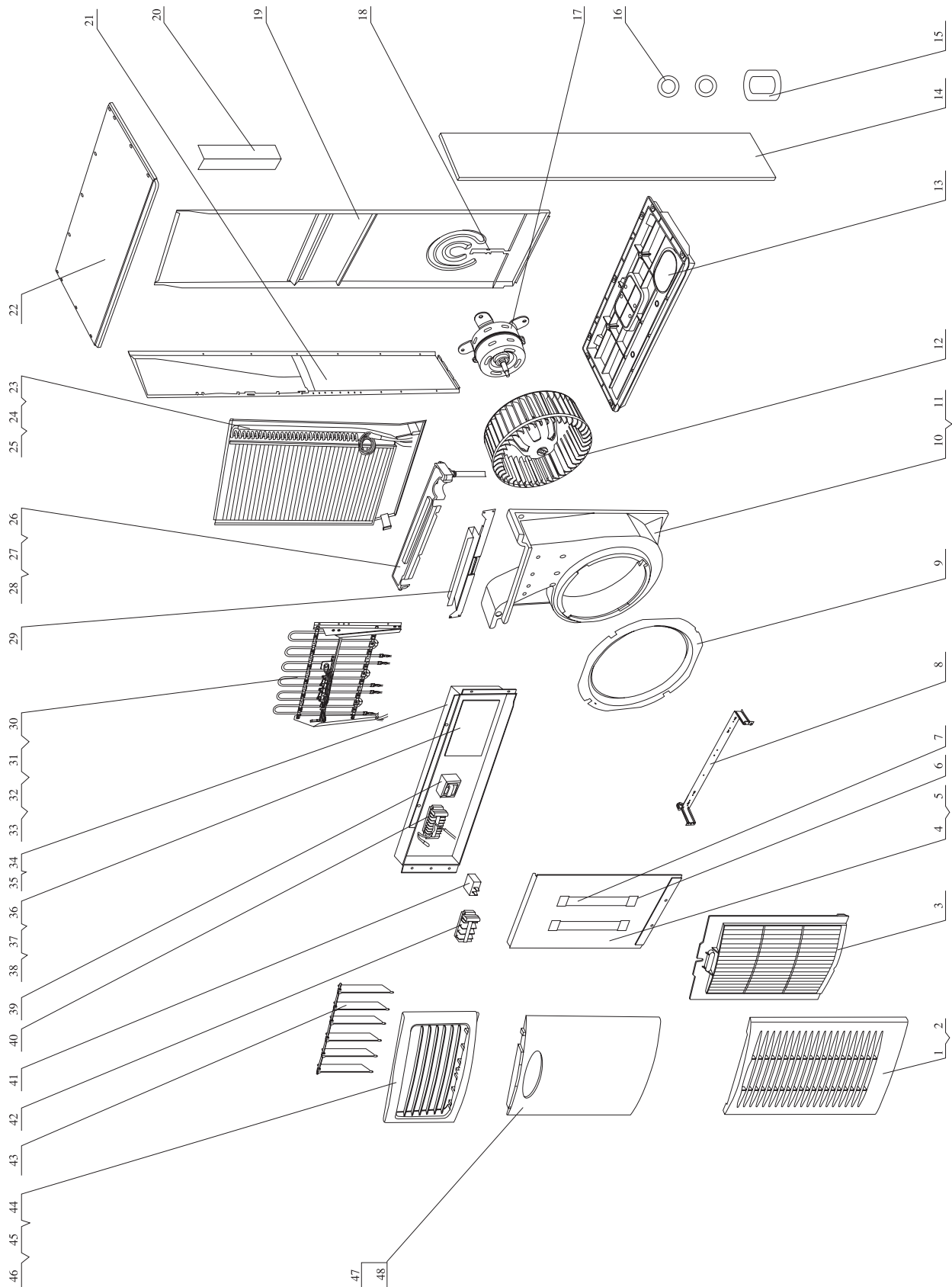


figure 8

Floor Standing Type

Table 9

No.	Description	名称及规格	Part No.				Qty
			KF-70L (7032LA)D	KFR-70L (7052LA)D	KF-70L (7033L)D	KFR-70L (7053L)D	
1	Air Intake Assy	进风面板部件	20004202	20004202	20004202	20004202	1
2	Chain	防倒链	70814001	70814001	70814001	70814001	1
3	Filter Assy	过滤网组件	11124071	11124071	11124071	11124071	1
4	Air Guard Assy	挡风板部件	01364230	01364230	01364241	01364241	1
5	Lamp	12W 荧光灯管	49010001	49010001	\	\	2
6	Rectifier	EMC 型电子镇流器2X12W	43130105	43130105	\	\	1
7	Lamp Seat	灯座	26154431	26154431	\	\	4
8	Lower Baffle	下横挡板组件	01384216	01384216	01384216	01384216	1
9	Diversion Circle	导流圈	10374202	10374202	10374202	10374202	1
10	Propeller House	蜗壳组件	12104240	12104240	12104240	12104240	1
11	Foam Fixed Screw	蜗壳安装螺钉	70110003	70110003	70110003	70110003	9
12	Centrifugal Fan	离心风叶	10314201	10314201	10314201	10314201	1
13	Underpan	底盘	22224201	22224201	22224201	22224201	1
14	Right Side Plate	右侧板组件	01304202	01304202	01304202	01304202	1
15	Pipe-crossing Loop	过管密封圈	76514421	76514421	76514421	76514421	1
16	Cable-crossing Loop	室内机过线圈	76514425	76514425	76514425	76514425	2
17	Fan Motor LN50B	电机 LN50B	15014205	15014205	15014205	15014205	1
18	Cable-pressed Plate	压线板	01384201	01384201	01384201	01384201	1
19	Rear Plate	后板组件	01304241	01304241	01304241	01304241	1
20	Protective Cover	保护盖板	22244231	22244231	22244231	22244231	1
21	Left Side Plate	左侧板组件	01304201	01304201	01304201	01304201	1
22	Top Cover Assy	顶盖组件	22244230	22244230	22244230	22244230	1
23	Evaporator Assy	蒸发器部件	01004224	01004220	01004224	01004220	1
24	Seal Ring	密封碗	76514202	76514202	76514202	76514202	1
25	Sensor Insert	感温头插片 B	42020063	42020063	42020063	42020063	1
26	Water Tray Assy	接水盘组件	12414210	12414210	12414210	12414210	1
27	Drainage Pipe	排水管组件	05235433	05235433	05235433	05235433	1
28	Breakwater	挡水板组件	01364210	01364210	01364210	01364210	1
29	Water Tray Support	接水盘固定板组件	01274210	01274210	01274210	01274210	1
30	Assistant Heater Assy	辅助电加热部件	\	32004202	\	32004202	1
31	Temperature Limiter 65℃	限温器 65℃	\	46010505	\	46010505	1
32	Fuse 99℃ 10A	热熔断体 99℃ 10A	\	46010355	\	46010355	2
	Fuse 98℃(G4A01098C)	或热熔断器98℃(G4A01098C)	\	46010302	\	46010302	2
33	Electric Heater 850W	电加热管 850W	\	32014007	\	32014007	3
34	Electric Box Assy	电器盒组件	01404211	01404211	01404211	01404211	1
35	Electric Box Cover	电器盒盖组件	01404221	01404221	01404221	01404221	1
36	PCB 3351	控制器 3351	30023015	\	\	\	1
	PCB 3353F	控制器 3353F	\	30023047	\	\	1
	PCB 3451	控制器 3451(中文显示)	\	\	30023028	\	1
	PCB 3R51	控制器 3R51(英文显示)	\	\	30023014	\	1
	PCB 3453F	控制器 3453F(中文显示)	\	\	\	30023048	1
	PCB 3R53F	控制器 3R53F(英文显示)	\	\	\	30023063	1
37	Switch Board 3343	3343 开关板	30044305	30044305	30044305	30044305	1
38	Receive Board 3L53	3L53 接收板	30044304	30044304	30044304	30044304	1
39	Transformer SC25A	电源变压器 SC25A	43110168	43110168	43110168	43110168	1
40	AC Contactor FMC-O	交流接触器 FMC-O	\	44010220	\	44010220	1
	AC Contactor LC1K0910M7	或交流接触器 LC1K0910M7	\	44010199	\	44010199	1
41	Capacitor 4.5uF/450VAC	电容 4.5uF/450VAC	33010012	33010012	33010012	33010012	1
42	Terminal Board GT360C2	接线板 GT360C2	42011024	\	42011024	\	1
	Terminal Board T5A0A-77	接线板 T5A0A-77	\	42011209	\	42011209	1

Floor Standing Type

Table 9 continue

No.	Description	名称及规格	Part No.				Qty
			KF-70L (7032LA)D	KFR-70L (7052LA)D	KF-70L (7033L)D	KFR-70L (7053L)D	
43	Air Louver	扫风叶片	10514212	10514212	10514212	10514212	6
44	Air Outlet Assy	出风口部件	20004201	20004201	20004201	20004201	1
45	Air Guider	导风叶片	10514213	10514213	10514213	10514213	6
46	Swing Motor	同步电机 SM016	15214215	15214215	15214215	15214215	1
47	Light Panel Assy	灯箱部件	80004207	80004207	\	\	1
	Panel Assy	面板部件	\	\	20004215	20004215	1
48	Light Picture	灯箱片	80004204	80004204	\	\	1
49	Plastic Pipe	吹塑排水管	05230022	05230022	05230022	05230022	1
50	Remote Controler Y512	遥控器 Y512	30512501	30512501	\	\	1
51	Power Cable	电源线 RVV 5X1.5	\	40020290	\	40020290	1
52	Connect Cable	电源连接线	40020417	40020419	40020417	40020419	1
53	Power Cable	电源线 YZW 5X1.5	40020299	\	40020299	\	1
54	Signal	信号控制线	\	40032147	\	40032147	1
55	Signal	信号控制线	40032112	40032139	40032112	40032139	1
56	Room Sensor	室内环境感温包	39000153	39000153	\	\	1
57	Tube Sensor	室内管温感温包	39000143	39000168	\	\	1
58	4 Core Sensor	四芯感温包	\	\	39000135	39000171	1
59	17 Core Connect cable	十七芯连线	\	\	40030056	40030056	1

The data are subject to change without notice.

Floor Standing Type

Table 10

No.	Description	名称及规格	Part No.				Qty
			KF-120L (1232LA)V	KFR-120L (1252LA)V	KF-120L (1233L)V	KFR-120L (1253L)V	
1	Air Intake Assy	进风面板部件	20004202	20004202	20004202	20004202	1
2	Chain	防倒链	70814001	70814001	70814001	70814001	1
3	Filter Assy	过滤网组件	11124071	11124071	11124071	11124071	1
4	Air Guard Assy	挡风板部件	01364230	01364230	01364241	01364241	1
5	Lamp	12W 荧光灯管	49010001	49010001	\	\	2
6	Rectifier	EMC 型电子镇流器 2X12W	43130105	43130105	\	\	1
7	Lamp Seat	灯座	26154431	26154431	\	\	4
8	Lower Baffle	下横挡板组件	01384216	01384216	01384216	01384216	1
9	Diversion Circle	导流圈	10374202	10374202	10374435	10374202	1
10	Propeller House	蜗壳组件	12104441	12104441	12104444	12104441	1
11	Foam Fixed Screw	蜗壳安装螺钉	70110003	70110003	70110003	70110003	9
12	Centrifugal Fan	离心风叶	10314401	10314401	10314401	10314401	1
13	Underpan	底盘	22224431	22224431	22224431	22224431	1
14	Right Side Plate	右侧板组件	01304434	01304434	01304434	01304434	1
15	Pipe-crossing Loop	过管密封圈	76514421	76514421	76514421	76514421	1
16	Cable-crossing Loop	室内机过线圈	76514425	76514425	76514425	76514425	2
17	Fan Motor LN100B	电机 LN100B	15014402	15014402	\	15014402	1
	Fan Motor LN100C	电机 LN100C	\	\	15014423	\	1
18	Cable-pressed Plate	压线板	01384201	01384201	01384201	01384201	1
19	Rear Plate	后板组件	01304441	01304441	01304441	01304441	1
20	Protective Cover	保护盖板	22244231	22244231	22244231	22244231	1
21	Left Side Plate	左侧板组件	01304433	01304433	01304433	01304433	1
22	Top Cover Assy	顶盖组件	01254431	01254431	01254431	01254431	1
23	Evaporator Assy	蒸发器部件	01004303	01004301	01004311	01004301	1
24	Seal Ring	密封碗	76514415	76514415	76514415	76514415	1
25	Sensor Insert	感温头插片 B	42020063	42020063	42020063	42020063	1
26	Water Tray Assy	接水盘组件	12414210	12414210	12414210	12414210	1
27	Drainage Pipe	排水管组件	05235433	05235433	05235433	05235433	1
28	Breakwater	挡水板组件	01364431	01364431	01364431	01364431	1
29	Water Tray Support	接水盘固定板组件	01274210	01274210	01274210	01274210	1
30	Assistant Heater Assy	辅助电加热部件	\	32004401	\	32004401	1
31	Temperature Limiter 65℃	限温器 65℃	\	46010505	\	46010505	1
32	Fuse 100℃ 15A	热熔断体 100℃ 15A	\	46010351	\	46010351	2
33	Electric Heater 1167W	电加热管 1167W	\	32014003	\	32014003	3
34	Electric Box Assy	电器盒组件	01404211	01404211	01404211	01404422	1
35	Electric Box Cover	电器盒盖组件	01404217	01404217	01404217	01404217	1
	Electric Box Cover	电器盒盖组件	01404214	01404214	01404214	01404214	1
36	PCB 3351	控制器 3351	30023015	\	\	\	1
	PCB 3353F	控制器 3353F	\	30023047	\	\	1
	PCB 3451	控制器 3451(中文显示)	\	\	30023028	\	1
	PCB 3R51	控制器 3R51(英文显示)	\	\	30023014	\	1
	PCB 3453F	控制器 3453F(中文显示)	\	\	\	30023048	1
	PCB 3R53F	控制器 3R53F(英文显示)	\	\	\	30023063	1
37	Switch Board 3343	3343 开关板	30044305	30044305	30044305	30044305	1
38	Receive Board 3153	3153 接收板	30044304	30044304	30044304	30044304	1
39	Transformer SC25A	电源变压器 SC25A	43110168	43110168	43110168	43110168	1
40	AC Contactor FMC-O	交流接触器 FMC-O	\	44010220	\	44010220	1
	AC Contactor LC1K0910M7	或交流接触器 LC1K0910M7	\	44010199	\	44010199	1
41	Capacitor 4.5uF/450VAC	电容 4.5uF/450VAC	33010012	33010012	33010012	33010012	1
42	Terminal Board GT360C2	接线板 GT360C2	42011024	\	42011024	\	1

Floor Standing Type

Table 10 continue

No.	Description	名称及规格	Part No.				Qty
			KF-120L (1232LA)V	KFR-120L (1252LA)V	KF-120L (1233LA)V	KFR-120L (1253LA)V	
42	Terminal Board GT8G0A1	接线板 GT8G0A1	\	42010187	\	42010187	1
	Terminal Board T5A0A-77	接线板 T5A0A-77	\	\	\	\	1
43	Air Louver	扫风叶片	10514212	10514212	10514212	10514212	6
44	Air Outlet Assy	出风口部件	20004201	20004201	20004201	20004201	1
45	Air Guider	导风叶片	10514213	10514213	10514213	10514213	6
46	Swing Motor	同步电机 SM016	15214215	15214215	15214215	15214215	1
47	Light Panel Assy	灯箱部件	80004207	80004207	\	\	1
	Panel Assy	面板部件	\	\	20004424	20004424	1
48	Light Picture	灯箱片	80004204	80004204	\	\	1
49	Plastic Pipe	吹塑排水管	05230022	05230022	05230022	05230022	1
50	Remote Controler Y512	遥控器 Y512	\	\	30512501	30512501	1
	Remote Controler Y502	遥控器 Y502	30512504	30512504	\	\	1
51	Power Cable	电源线	40020299	40020350	40020299	40020350	1
52	Connect Cable	电源连接线 YZW 3X0.75	40020416	\	40020416	40020234	1
53	Signal	信号控制线	\	40032127	\	40032127	1
54	Signal	信号控制线	40032128	40032128	40032111	40032128	1
55	Room Sensor	室内环境感温包	39000153	39000153	\	\	1
56	Tube Sensor	室内管温感温包	39000143	39000143	\	\	1
57	4 Core Sensor	四芯感温包	\	\	39000136	39000171	1
58	17 Core Connect Cable	十七芯连线	\	\	40030056	40030056	1

The data are subject to change without notice.

Floor Standing Type

Table 11

No.	Description	名称及规格	Part No.				Qty
			KT3F-70L (7033L1)	KT3FR-70L (7053L1)	KT3F-70L/ A10 12205	KT3FR-70L/ A10 12205	
1	Air Intake Assy	进风面板部件	20004202	20004202	20004202	20004202	1
2	Chain	防倒链	70814001	70814001	70814001	70814001	1
3	Filter Assy	过滤网组件	11124071	11124071	11124071	11124071	1
4	Air Guard Assy	挡风板部件	01364230	01364230	01364241	01364241	1
5	Rectifier	EMC 型电子镇流器	\	\	\	\	\
6	Lamp Seat	灯座	\	\	\	\	\
7	Lamp	荧光灯管	\	\	\	\	\
8	Lower Baffle	下横挡板组件	01384216	01384216	01384216	01384216	1
9	Diversion Circle	导流圈	10374202	10374202	10374202	10374202	1
10	Propeller House	蜗壳组件	12104240	12104240	12104240	12104240	1
11	Foam Fixed Screw	蜗壳安装螺钉	70110003	70110003	70110003	70110003	9
12	Centrifugal Fan	离心风叶	10314201	10314201	10314201	10314201	1
13	Underpan	底盘	22224201	22224201	22224201	22224201	1
14	Right Side Plate	右侧板组件	01304202	01304202	01304202	01304202	1
15	Pipe-crossing Loop	过管密封圈	76514421	76514421	76514421	76514421	1
16	Cable-crossing Loop	室内机过线圈	76514425	76514425	76514425	76514425	2
17	Fan Motor LN50P	电机 LN50P	15014206	15014206	\	\	1
	Fan Motor LN50B	电机 LN50B	\	\	15014205	15014205	1
18	Cable-pressed Plate	压线板	01384201	01384201	01384201	01384201	1
19	Rear Plate	后板组件	01304241	01304241	01304241	01304241	1
20	Protective Cover	保护盖板	22244231	22244231	22244231	22244231	1
21	Left Side Plate	左侧板组件	01304201	01304201	01304201	01304201	1
22	Top Cover Assy	顶盖组件	22244230	22244230	22244230	22244230	1
23	Evaporator Assy	蒸发器部件	01004232	01004232	01004237	01004236	1
24	Seal Ring	密封碗	76514202	76514202	76514202	76514202	1
25	Sensor Insert	感温头插片 B	42020063	42020063	42020063	42020063	1
26	Water Tray Assy	接水盘组件	12414210	12414210	12414210	12414210	1
27	Drainage Pipe	排水管组件	05235433	05235433	05235433	05235433	1
28	Breakwater	挡水板组件	01364210	01364210	01364210	01364210	1
29	Water Tray Support	接水盘固定板组件	01274210	01274210	01274210	01274210	1
30	Assistant Heater Assy	辅助电加热部件	\	320042022	\	32004211	1
31	Temperature Limiter 65℃	限温器 65℃	\	46010505	\	46010505	1
32	Fuse 99℃ 10A	热熔断体 99℃ 10A	\	46010355	\	46010355	2
33	Electric Heater 400w	电加热管 400w	\	32014006	\	32014006	3
34	Electric Box Assy	电器盒组件	01404211	01404211	01404211	01404211	1
35	Electric Box Cover	电器盒盖板组件	01404221	01404221	01404217	01404217	1
36	PCB 3J51J	控制器 3J51J	30023106	\	30023106	\	1
	PCB 3J53J	控制器 3J53J	\	30023107	\	30023107	1
37	Switch Board	开关板	\	\	\	\	\
38	Receive Board	接收板	\	\	\	\	\
39	Transformer SC33D	电源变压器 SC33D	43110198	43110198	43110198	43110198	1
40	AC Contactor LC1K0910M7	交流接触器 LC1K0910M7	\	\	\	\	\
41	Capacitor 4.5uF/450VAC	电容 4.5uF/450VAC	33010012	33010012	33010012	33010012	1
42	Terminal Board GT6G0A1	接线板 GT6G0A1	42011034	42011034	42011034	42011034	1
43	Air Louver	扫风叶片	10514212	10514212	10514212	10514212	6
44	Air Outlet Assy	出风口部件	20004201	20004201	20004201	20004201	1
45	Air Guider	导风叶片	10514213	10514213	10514213	10514213	6
46	Swing Motor SM106	同步电机 SM106	15214215	15214215	15214215	15214215	1
47	Light Panel Assy	灯箱部件	\	\	\	\	\
48	Panel Assy	面板部件	20004215	20004215	20004215	20004215	1

Floor Standing Type

Table 11 continue

No.	Description	名称及规格	Part No.				Qty
			KT3F-70L (7033L1)	KT3FR-70L (7053L1)	KT3F-70L/ A10 12205	KT3FR-70L/ A10 12205	
49	Plastic Pipe	吹塑排水管	05230022	05230022	05230022	05230022	1
50	Remote Controler Y512	遥控器 Y512	30512501	30512501	30512501	30512501	1
51	Power Cable	电源线 RVV3X2.5	40020288	\	\	\	1
		电源线 3X4.0	\	40020317	40020317	40020317	1
52	Connect Cable	电源连接线	40020419	40020419	40020419	40020419	1
53	Signal	信号控制线	\	\	\	\	\
54	Signal	信号控制线	40032112	40032139	40032112	40032139	1
55	Room Sensor	室内环境感温包	\	\	\	\	\
56	Tube Sensor	室内管温感温包	\	\	\	\	\
57	4 Core Sensor	四芯感温包	39000171	39000171	39000171	39000171	1
58	18 Core Connect Cable	十八芯板间连线	40030065	40030065	40030065	40030065	1

The data are subject to change without notice.

Floor Standing Type

Table 12

No.	Description	名称及规格	Part No.				Qty
			KT3F-120L (1233L)	KT3FR-120L (1253L)	KT3F-120L/ A10-33805	KT3FR-120L/ A10-33805	
1	Air Intake Assy	进风面板部件	20004202	20004202	20004202	20004202	1
2	Chain	防倒链	70814001	70814001	70814001	70814001	1
3	Filter Assy	过滤网组件	11124071	11124071	11124071	11124071	1
4	Air Guard Assy	挡风板部件	01364230	01364230	01364241	01364241	1
5	Rectifier	EMC 型电子镇流器	\	\	\	\	\
6	Lamp Seat	灯座	\	\	\	\	\
7	Lamp	荧光灯管	\	\	\	\	\
8	Lower Baffle	下横挡板组件	01384216	01384216	01384216	01384216	1
9	Diversion Circle	导流圈	10374202	10374202	10374202	10374202	1
10	Propeller House	蜗壳组件	12104441	12104441	12104441	12104441	1
11	Foam Fixed Screw	蜗壳安装螺钉	70110003	70110003	70110003	70110003	9
12	Centrifugal Fan	离心风叶	10314401	10314401	10314401	10314401	1
13	Underpan	底盘	22224431	22224431	22224431	22224431	1
14	Right Side Plate	右侧板组件	01304434	01304434	01304434	01304434	1
15	Pipe-crossing Loop	过管密封圈	76514421	76514421	76514421	76514421	1
16	Cable-crossing Loop	室内机过线圈	76514425	76514425	76514425	76514425	2
17	Fan Motor LN100P	电机 LN100P	15014401	15014401	\	\	1
	Fan Motor	电机 LN100B	\	\	15014402	15014402	1
18	Cable-pressed Plate	压线板	01384201	01384201	01384201	01384201	1
19	Rear Plate	后板组件	01304441	01304441	01304441	01304441	1
20	Protective Cover	保护盖板	22244231	22244231	22244231	22244231	1
21	Left Side Plate	左侧板组件	01304433	01304433	01304433	01304433	1
22	Top Cover Assy	顶盖组件	01254431	01254431	01254431	01254431	1
23	Evaporator Assy	蒸发器部件	01004308	01004307	01004308	01004309	1
24	Seal Ring	密封碗	76514415	76514415	76514415	76514415	1
25	Sensor Insert	感温头插片 B	42020063	42020063	42020063	42020063	1
26	Water Tray Assy	接水盘组件	12414210	12414210	12414210	12414210	1
27	Drainage Pipe	排水管组件	05235433	05235433	05235433	05235433	1
28	Breakwater	挡水板组件	01364431	01364431	01364431	01364431	1
29	Water Tray Support	接水盘固定板组件	01274210	01274210	01274210	01274210	1
30	Assistant Heater Assy	辅助电加热部件	\	32004432	\	32004401	1
31	Temperature Limiter 65℃	限温器 65℃	\	46010505	\	46010505	1
32	Fuse 100℃ 15A	热熔断体 100℃ 15A	\	46010351	\	46010351	1
33	Electric Heater 850W	电加热管 850W	\	32014018	\	\	1
	Electric Heater	电加热管	\	\	\	32014003	1
34	Electric Box Assy	电器盒组件	01404211	01404211	01404211	01404211	1
35	Electric Box Cover	电器盒盖板组件	01404221	01404221	01404214	01404217	1
36	PCB 3J51J	控制器 3J51J	30023106	\	30023106	\	1
	PCB 3J53J	控制器 3J53J	\	30023107	\	30023107	1
37	Switch Board	开关板	\	\	\	\	\
38	Receive Board	接收板	\	\	\	\	\
39	Transformer SC33D	电源变压器 SC33D	43110198	43110198	43110198	43110198	1
40	AC Contactor LC1K0910M7	交流接触器 LC1K0910M7	\	44010199	\	44010199	1
41	Capacitor 4.5uF/450VAC	电容 4.5uF/450VAC	33010012	33010012	33010012	33010012	1
42	Terminal Board T5A0A-77	接线板 T5A0A-77	\	42011209	\	42011209	1
	Terminal Board GT360C2	接线板 GT360C2	42011024	\	42011024	\	1
43	Air Louver	扫风叶片	10514212	10514212	10514212	10514212	6
44	Air Outlet Assy	出风口部件	20004201	20004201	20004201	20004201	1
45	Air Guider	导风叶片	10514213	10514213	10514213	10514213	6
46	Swing Motor SM106	同步电机 SM106	15214215	15214215	15214215	15214215	1

Floor Standing Type

Table 12 continue

No.	Description	名称及规格	Part No.				Qty
			KT3F-120L (1233L)	KT3FR-120L (1253L)	KT3F-120L/ A10-33805	KT3FR-120L/ A10-33805	
47	Light Panel Assy	灯箱部件	\	\	\	\	\
48	Panel Assy	面板部件	20004215	20004215	20004424	20004424	1
49	Plastic Pipe	吹塑排水管	05230022	05230022	05230022	05230022	1
50	Remote Controler Y512	遥控器 Y512	30512501	30512501	30512501	30512501	1
51	Power Cable	电源线 RVV4X1.5	\	40022012	\	\	1
	Power Cable	电源线 RVV5X1.5	\	\	\	40020290	1
	Power Cable	电源线 3X4.0	\	\	\	\	1
	Power Cable	电源线 YZW4X2.5	40020298	40020298	40020299	40020299	1
52	Connect Cable	电源连接线	40020417	\	40020416	\	1
53	Signal	信号控制线	\	40032114	\	40032114	1
54	Signal	信号控制线	40032111	40032111	40032111	40032111	1
55	Room Sensor	室内环境感温包	\	\	\	\	1
56	Tube Sensor	室内管温感温包	\	\	\	\	1
57	4 Core Sensor	四芯感温包	39000171	39000171	39000171	39000171	1
58	18 Core Connect Cable	十八芯板间连线	40030065	40030065	40030065	40030065	1

The data are subject to change without notice.

Floor Standing Type

Table 13

No.	Description	名称及规格	Part No.		Qty
			GSV48-22L (I)	GSV60-22L (I)	
1	Air Intake Assy	进风面板部件	20004202	20004471	1
2	Chain	防倒链	70814001	70814001	1
3	Filter Assy	过滤网组件	11124071	11144471	1
4	Air Guard Assy	挡风板部件	01364241	01364492	1
5	Rectifier	EMC 型电子镇流器	\	\	\
6	Lamp Seat	灯座	\	\	\
7	Lamp	荧光灯管	\	\	\
8	Lower Baffle	下横挡板组件	01384216	\	1
9	Diversion Circle	导流圈	10374202	10374202	1
10	Propeller House	蜗壳组件	12104441	12104470	1
11	Foam Fixed Screw	蜗壳安装螺钉	70110003	70110003	9
12	Centrifugal Fan	离心风叶	10314401	10314401	1
13	Underpan	底盘	22224431	22224471	1
14	Right Side Plate	右侧板组件	01304434	01304474	1
15	Pipe-crossing Loop	过管密封圈	76514421	76514421	1
16	Cable-crossing Loop	室内机过线圈	76514425	76514201	2
17	Fan Motor LN100P	电机LN100P	15014401	\	1
	Fan Motor	电机LN130T	\	15014432	1
18	Cable-pressed Plate	压线板	01384201	01384471	1
19	Rear Plate	后板组件	01304441	01304472	1
20	Protective Cover	保护盖板	22244231	22244231	1
21	Left Side Plate	左侧板组件	01304433	01304470	1
22	Top Cover Assy	顶盖组件	01254431	22744470	1
23	Evaporator Assy	蒸发器部件	01004306	01004471	1
24	Seal Ring	密封碗	76514415	76514402	1
25	Sensor Insert	感温头插片 B	42020063	42020063	1
26	Water Tray Assy	接水盘组件	12414210	12414471	1
27	Drainage Pipe	排水管组件	05235433	05235433	1
28	Breakwater	挡水板组件	01364431	01364483	1
29	Water Tray Support	接水盘固定板组件	01274210	01274471	1
30	Assistant Heater Assy	辅助电加热部件	\	\	\
31	Temperature Limiter 65℃	限温器 65℃	\	\	\
32	Fuse 100℃ 15A	热熔断体 100℃ 15A	\	\	\
33	Electric Heater 850W	电加热管 850W	\	\	\
	Electric Heater	电加热管	\	\	\
34	Electric Box Assy	电器盒组件	01404211	01404470	1
35	Electric Box Cover	电器盒盖板组件	01404222	01404472	1
36	PCB 3R51	控制器 3R51	\	30023014	1
	Mainboard	主板 3451	30000310	\	1
37	Switch Board	开关板	\	\	\
38	Receive Board	接收板	\	\	\
39	Transformer SC25A	电源变压器 SC25A	43110168	43110168	1
40	AC Contactor LC1K0910M7	交流接触器 LC1K0910M7	\	44010199	1
41	Capacitor 4.5uF/450VAC	电容 4.5uF/450VAC	33010012	33010012	1
	Capacitor 7uF/500VAC	电容 7uF/500VAC	\	33010141	1
42	Terminal Board GT360G1	接线板 GT360G1	42010173	42010173	1
43	Air Louver	扫风叶片	10514212	10514452	6
44	Air Outlet Assy	出风口部件	20004201	20004470	1
45	Air Guider	导风叶片	10514213	10514453	6
46	Swing Motor SM106	同步电机 SM106	15214215	\	1

Floor Standing Type

Table 13 continue

No.	Description	名称及规格	Part No.		Qty
			GSV48-22L (I)	GSV60-22L (I)	
46	Swing Motor SM018	同步电机 SM018	\	15214451	1
47	Light Panel Assy	灯箱部件	\	\	\
48	Panel Assy	面板部件	20004215	20004445	1
49	Plastic Pipe	吹塑排水管	05230022	05230022	1
50	Remote Controler Y512	遥控器 Y512	30512501	30512501	1
51	Power Cable	电源线	\	40020308	1
	Power Cable	电源线 YZW4X2.5	40020298	\	1
52	Connect Cable	电源连接线	40020416	40020416	1
53	Signal	信号控制线	40032111	40032128	1
54	Room Sensor	室内环境感温包	\	\	\
55	Tube Sensor	室内管温感温包	\	\	\
56	4 Core Sensor	四芯感温包	39000136	39000136	1
57	17 Core Connect Cable	十七芯板间连线	40030056	40030056	1

The data are subject to change without notice.

Floor Standing Type

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6.1 Explosive view and spare parts list of outdoor unit

for 70 model

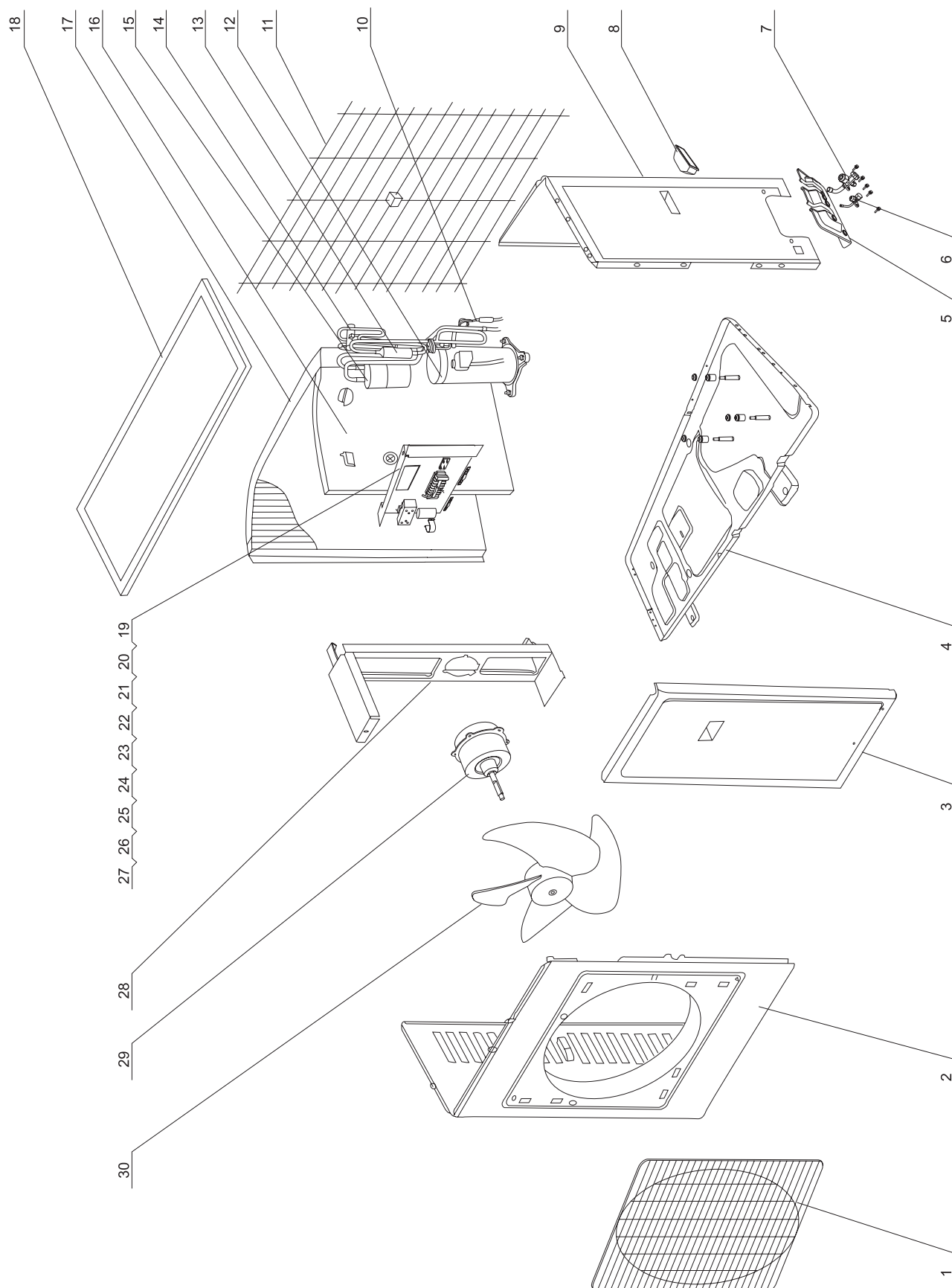


figure 9

Floor Standing Type

Table 14

No.	Description		Part No.		Qty
			KF-70W/ED	KFR-70W/ED	
1	Front Grill	面罩组件	22265250	22265250	1
2	Front Plate	外罩	01435254	01435254	1
3	Front Side Plate	前侧板组件	01305018	01305018	1
4	Metal Base	底盘组件	01205011	01205011	1
5	Valve Support	阀门支架组件	01715001	01715001	1
6	Liquid Valve Assy	小阀门组件	07105256	07105256	1
7	Gas Valve Assy	大阀门组件	07105252	07105252	1
8	Handle	把手	26235253	26235253	1
9	Rear Side Plate	后侧板	01305260	01305260	1
10	Pressure protection switch	压力保护开关	46020003	46020003	1
11	Rear grill Assy	网罩	01475251	01475251	1
12	Compressor	压缩机 AVA5535EXG	00100503	00100503	1
13	Silencer	消音器	07245201	07245201	1
14	4 Way Valve	四通阀 CHV-0201	/	43000310	1
15	Gas-liquid Separator	汽液分离器部件	07255251	07255251	1
16	Isolation Sheet Assy	中间隔板组件	01235253	01235253	1
17	Condenser Assy	冷凝器部件	01105031	01105035	1
18	Top Cover Assy	顶盖组件	01255260	01255260	1
19	Electric Box	电器盒组件	01405201	01405201	1
20	Cable Clamp	电线夹	71010102	71010102	1
21	Insulating liece	绝缘垫片 C	70410523	70410523	1
22	Fan Capacitor 3uF/450V	风机电容 3uF/450V	33010021	33010021	1
23	AC Contactor 3TF4211	双极交流接触器 3TF4211	44010224	\	1
	AC Contactor 3TF4211 3TF4111-1RMO	交流接触器 3TF4111-1RMO	\	44010205	1
24	Terminal Board GT8F0A1	接线板 GT8F0A1	42011036	\	1
	Terminal Board T6C0A	六位接线板 T6C0A	\	42011230	1
25	Over Current Protector HD-09-22	过流保护器 HD-09-22	46020109	\	1
	Over Current Protector UO-10-9.0A	过流保护器 UO-10-9.0A	\	46020108	1
26	AC Relay VC15-3A1B- AC220	交流继电器 VC15-3A1B-AC220	\	44020305	1
27	Velometer	调速器 TS60	\	30117001	1
28	Motor Support	电机支架组件	01705252	01705252	1
29	Motor LW60B	电机 LW60B	15015205	15015205	1
30	Axial Flow Fan	轴流风叶	10335253	10335253	1
31	Room Sensor	室外环境感温包	\	39000219	1

The data are subject to change without notice.

Floor Standing Type

Table 15

No.	Description	名称及规格	Part No.				Qty
			KT3F-70W/E1	KT3FR-70W/E1	KT3F-70W/A10 12205	KT3FR-70W/A10 12205	
1	Front Grill	面罩组件	22265250	22265250	22265250	22265250	1
2	Front Plate	外罩	01435254	01435254	01435254	01435254	1
3	Front Side Plate	前侧板组件	01305018	01305018	01305018	01305018	1
4	Metal Base Assy	底盘组件	01205264	01205264	01205264	01205263	1
5	Valve Support Assy	阀门支架组件	01715001	01715001	01715001	01715001	1
6	Liquid Valve Assy	小阀门组件	07105255	07103702	07105255	07103702	1
7	Handle	大阀门组件	07105251	07105251	07105251	07105252	1
8	Rear Side Plate	把手	26235252	26235252	26235252	26235252	1
9	Pressure Protection Switch	后侧板	01305260	01305260	01305260	01305260	1
10	Pressure Protect Switch	压力保护开关	46020003	46020003	46020011	46020011	1
11	Rear Grill Assy	网罩	01475251	01475251	01475251	01475251	1
12	Compressor H24B28QABCA	压缩机 H24B28QABCA	00100025	00100025	\	\	1
	Compressor CK32K3-PFZ-101	压缩机及其配件 CK32K3-PFZ-101	\	\	00100078	00100078	1
13	Silencer	消音器	07245005	07245005	07245005	07245005	1
14	4 Way Valve	四通阀	\	43000403	\	43000403	1
	4 Way Valve Fittings	四通阀配件	\	43000403	\	430004003	1
15	Gas-liquid Separator	汽液分离器部件	07255201	07255201	07255251	07255251	1
16	Isolation Sheet Assy	中间隔板组件	01235253	01235253	01235253	01235253	1
17	Condenser Assy	冷凝器部件	01105217	01105217	01105008	01105223	1
18	Top Cover Assy	顶盖组件	01255260	01255260	01255260	01255260	1
19	Electric Box	电器盒组件	01405230	01405230	01405238	01405237	1
20	Fan Capacitor 3uF/450V	风机电容 3uF/450V	33010021	33010021	33010021	33010021	1
21	Terminal Board	接线板 T360C	42011225	42011225	42011225	42011225	1
22	AC Relay CJX9B-25S	双极交流继电器 CJX9B-25S	44010221	44010221	44010221	44010221	1
23	Over Current Protector	过流保护器	\	\	\	\	\
	Over Current Protector 22A	过流保护器 22A	\	\	\	\	\
24	Phase Reverse Protector	逆相保护器	\	\	\	\	\
25	Terminal Board 2-8	接线板 2-8	42011103	42011103	42011103	42011103	1
26	\	\	\	\	\	\	\
27	\	\	\	\	\	\	\
28	Motor Support	电机支架组件	01705252	01705252	01705252	01705252	1
29	Motor FW60N	电机FW60N	15013064	15013064	\	\	1
	Motor LW68L	电机FW60L	\	\	15013063	15013063	1
30	Axial Flow Fan	轴流风叶	10335253	10335253	10335253	10335253	1
31	Tube Sensor	室外管温感温包	\	390001212	\	390001212	1

The data are subject to change without notice.

Floor Standing Type

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6.2 Explosive view and spare parts list of outdoor unit

for 120 model GSV48-22L GSV60-22L

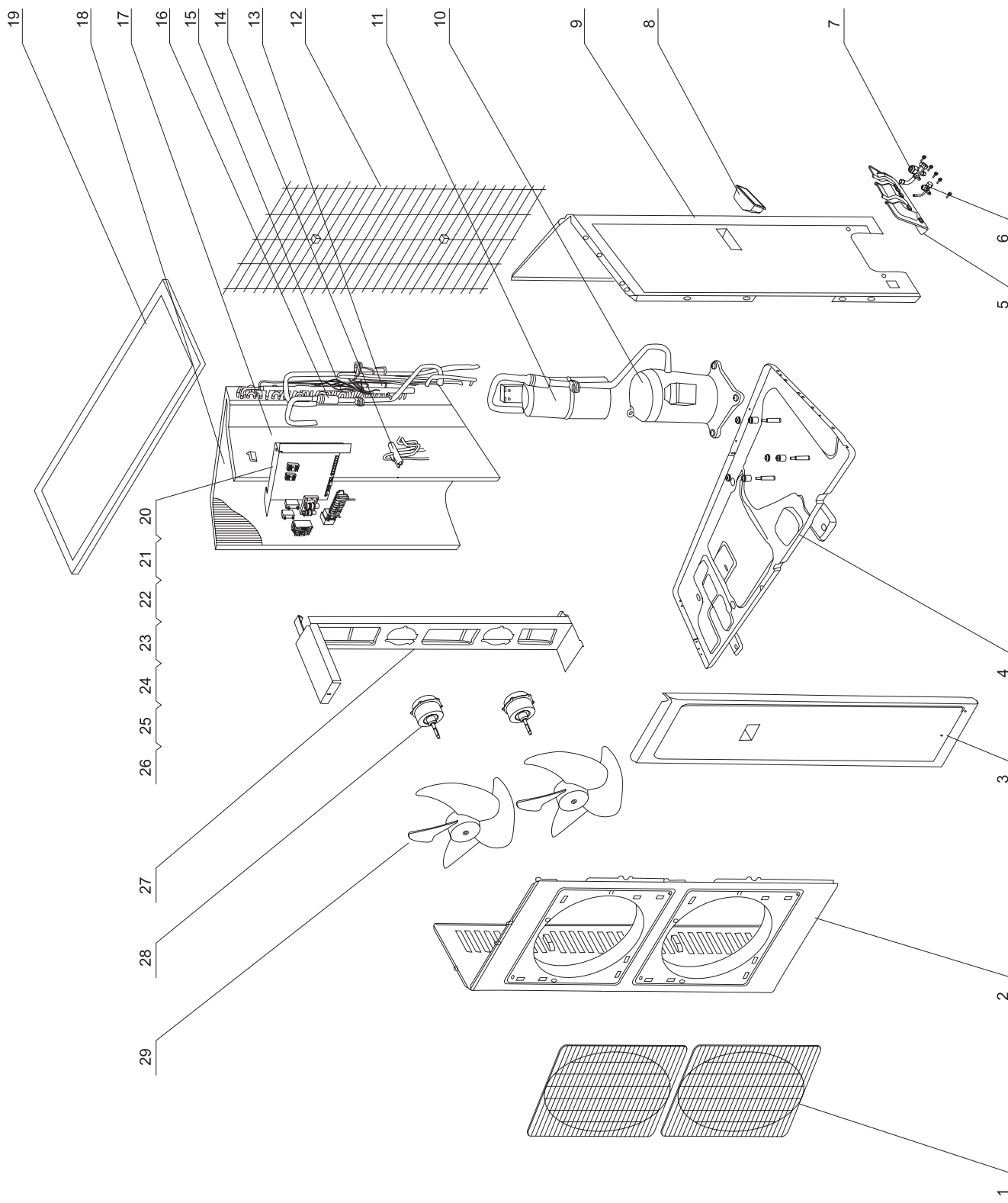


figure 10

Floor Standing Type

Table 16

No.	Description		Part No.		Qty
			KF-120W/EV	KFR-120W/EV	
1	Front Grill	面罩组件	22265250	22265250	2
2	Front Plate	外罩	01435433	01435433	1
3	Front Side Plate	前侧板	01305431	01305431	1
4	Metal Base	底盘组件	01205432	01205432	1
5	Valve Support	阀门支架	01715256	01715256	1
6	Liquid Valve Assy	小阀门组件	07103701	07103701	1
7	Gas Valve Assy	大阀门组件	07105435	07105435	1
8	Handle	把手	26235251	26235251	1
9	Rear Side Plate	后侧板	01305434	01305434	1
10	Compressor C-SB373H8A	压缩机 C-SB373H8A	00100330	00100330	1
11	Gas-liquid Separator	汽液分离器部件	07225433	07225433	1
12	Rear Grill Assy	网罩	01475431	01475431	1
13	Low Pressure Switch	低压开关	46020007	46020007	1
14	4 Way Valve	四通阀	\	43000317	1
	4 Way Valve Fittings	四通阀配件	\	430004013	1
15	Pressure Protect Switch	压力保护开关 3.0/2.4MPa	46020003	46020003	1
16	Silencer	消音器	\	07245434	1
17	Isolation Sheet Assy	中间隔板组件	01235440	01235440	1
18	Condenser Assy	冷凝器部件	01105431	01105431	1
19	Top Cover Assy	顶盖	01255262	01255262	1
20	Electric Box	电器盒组件	01415201	01415201	1
21	Capacitor	电容 3.5uF/450VAC	33010010	33010010	2
22	Terminal Board	接线板 T5A0A-94	\	42011210	1
	Terminal Board	接线板 GT8FOA1	42011036	\	1
23	AC Contactor 3TF4211	交流接触器 3TF4211	44010203	44010224	1
	or LC1D1801M7C	或 LC1D1801M7C	44010211	44010211	1
24	Over Current Protector	过流保护器 UO-10- 13.2A	46020102	46020102	1
	UO-10- 13.2A				
	or HD-13.2-22		46020112	46020112	1
25	Phase Reverse Protector	逆相保护器	46020052	46020052	1
26	Terminal Board 2-8	接线板 2-8	42011103	42011103	1
27	Motor Support	电机支架组件	01705433	01705433	1
28	Motor	电机 LW68A	15015421	15015421	2
29	Axial Flow Fan	轴流风叶	10335253	10335253	2
30	Ambient Sensor	室外环境感温包	\	39000129	1
31	Discharge Temperature Sensor	排气温度感温包	39000163	39000163	1
32	Tube Sensor	室外管温感温包	\	39000121	1

The data are subject to change without notice.

Floor Standing Type

Table 17

No.	Description	名称及规格	Part No.				Qty
			KT3F-120W/E	KT3FR-120W/E	KT3F-120W/A10-33805	KT3FR-120W/A10-33805	
1	Front Grill	面罩组件	22265250	22265250	22265250	22265250	1
2	Front Plate	外罩	01435433	01435433	01435433	01435433	1
3	Front Side Plate	前侧板组件	01305430	01305430	01305430	01305430	1
4	Metal Base Assy	底盘组件	01205011	01205011	01205264	01205264	1
5	Valve Support Assy	阀门支架组件	01715001	01715001	01715001	01715001	1
6	Liquid Valve Assy	小阀门组件	07100036	07103704	07105439	07105439	1
7	Handle	大阀门组件	07103401	07103401	07103401	07103401	1
8	Rear Side Plate	把手	26235252	26235252	26235253	26235253	1
9	Pressure Protection Switch	后侧板	01305434	01305434	01305434	01305434	1
10	Gas-liquid Separator	汽液分离器部件	07225433	07225433	07225433	07225433	1
11	Rear Grill Assy	网罩	01475431	01475431	01475431	01475431	1
12	Compressor H23A46QDBLA	压缩机 H23A46QDBLA	00100027	00100027	\	\	\
	Compressor CR53KQ-TFD-240BC	压缩机及配件 CR53KQ-TFD-240BC	\	\	00100165	00100165	1
13	Low Pressure Switch	低压开关	46020007	46020007	46020007	46020007	1
14	4 Way Valve	四通阀	\	43000405	\	43000405	1
	4 Way Valve Fittings	四通阀配件	\	430004013	\	430004013	1
15	Pressure Protect Switch	压力保护开关	46020003	46020003	46020011	46020011	1
16	Silencer	消音器	07245434	07245434	07245434	07245434	1
17	Isolation Sheet Assy	中间隔板组件	01235440	01235440	01235440	01235440	1
18	Condenser Assy	冷凝器部件	01105439	01105439	01105440	01105440	1
19	Top Cover Assy	顶盖组件	01255260	01255260	01255260	01255260	1
20	Electric Aox	电器盒组件	01405206	01405206	01405206	01405206	1
21	Fan Capacitor 3.5uF/450VAC	电容 3.5uF/450VAC	33010010	33010010	\	\	1
	Fan Capacitor CBB61 3.5uF/450V	电容 CBB61 3.5uF/450V	\	\	33010010	33010010	1
22	Terminal board	接线板 GT8F0B1	42010177	\	\	\	1
		接线板 GT8F0A1	\	\	42011036	\	1
		接线板 T5A0A-94	\	42011210	\	42011210	1
23	AC Relay LC1D2501M7C	交流继电器 LC1D2501M7C	44010213	44010213	\	\	1
	AC Relay GC3-18/01KK	交流继电器 GC3-18/01KK	\	\	44010226	44010226	1
24	Over Current Protector	过流保护器	\	\	46020112	46020112	1
	Over Current Protector 22A	过流保护器 22A	46020114	46020114	\	\	1
25	Phase Reverse Protector	逆相保护器	\	\	\	\	\
26	Terminal Board 2-8	接线板 2-8	42011103	42011103	42011103	42011103	1
27	Motor Support	电机支架组件	01705433	01705433	01705433	01705433	1
28	Motor LW68A	电机 LW68A	\	\	15015421	15015421	1
	Motor LW68P	电机 FW68P	15015422	15015422	\	\	1
29	Axial Flow Fan	轴流风叶	10335253	10335253	10335253	10335253	2
30	Tube Sensor	室外管温感温包	\	390001212	\	390001212	1

The data are subject to change without notice.

Floor Standing Type

Table 18

No.	Description		Part No.		Qty
			GSV48-22L(O)	GSV60-22L(O)	
1	Front Grill	面罩组件	22265250	22265250	1
2	Front Plate	外罩	01435433	01435433	1
3	Front Side Plate	前侧板组件	01305430	01305430	1
4	Metal Base	底盘组件	01205432	01205472	1
5	Valve Support Assy	阀门支架组件	01715001	01715001	1
6	Liquid Valve Assy	小阀门组件	07100036	07100036	1
7	Gas Valve Assy	大阀门组件	07103401	07103401	1
8	Handle	把手	26235251	26235252	1
9	Rear Side Plate	后侧板	01305434	01305434	1
10	Gas-liquid Separator	汽液分离器部件	07225433	07225479	1
11	Rear Grill Assy	网罩	01475431	01475431	1
12	Compressor C-SB373H3A	压缩机 C-SB373H3A	\	00100329	1
	Compressor CRLQ-0350-TF5-501	压缩机及其配件 CRLQ-0350-TF5-501	00100061	\	1
13	Low Pressure Switch	低压开关	46020007	46020007	1
14	4 Way Valve	四通阀	\	\	\
	4 Way Valve Fittings	四通阀配件	\	\	\
15	Pressure Protect Switch	压力保护开关	46020003	46020003	1
16	Silencer	消音器	07245005	07245005	1
17	Isolation Sheet Assy	中间隔板组件	01235440	01235471	1
18	Condenser Assy	冷凝器部件	01105436	01105472	1
19	Top Cover Assy	顶盖组件	01255260	01255470	1
20	Electric Box	电器盒组件	01405201	01405471	1
21	Fan Capacitor CBB61 4 μ F/500V	电容 CBB61	\	33010013	1
	Fan Capacitor CBB61 3.5/450V	电容 CBB61	33010010	\	1
22	Terminal Board	接线板 GT8FOB1	42010177	42010177	1
23	AC Relay LC1D3201M7C	交流接触器 LC1D3201M7C	440101214	\	1
	AC Relay LC1D2501M7C	交流接触器 LC1D2501M7C	\	440101213	1
24	Over Current Protector	过流保护器	46020105	46020113	1
25	Phase Reverse Protector	逆相保护器	\	46020053	1
26	Terminal Board 2-8	接线板 2-8	42011103	42011103	1
27	Motor Support	电机支架组件	01705433	01705471	1
28	Motor FW60N	电机 FW92P	\	15015452	1
	Motor LW68P	电机 LW68P	15015422	\	1
29	Axial Flow Fan	轴流风叶	10335253	10335253	2

The data are subject to change without notice.

7. Installation guide

7.1 Place for installation

(1) Indoor unit

Avoid:

- Where inflammable gas may leak.
- Where there is excessive oily air.
- Where it is liable to be affected by in-coming air.
- Where there is direct sunlight.
- Where there is heat source nearby.
- Where free air flow may be blocked.
- Where there is high-frequency equipment(eg. high-frequency electric welder).
- Where acid solutions are frequently used.
- Where it is possible for the unit to get wet or damp.
- Installing fire alarm near the air outlet (in HEAT mode, the fire alarm may be wrongly activated when detecting the warm air breezing out of the unit).

Please:

- Choose a suitable place so that conditioned air can reach every corner of the room.
- Install the unit on a solid and even ground that can bear the weight of the unit.
- Choose a place where the distance between the connecting pipe, drainage pipe and the outside is as short as possible.
- Leave enough space around the unit for air going in/out and maintenance(see Fig. 11):

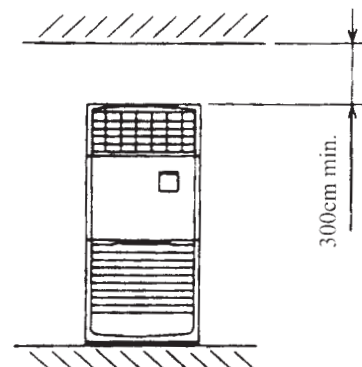
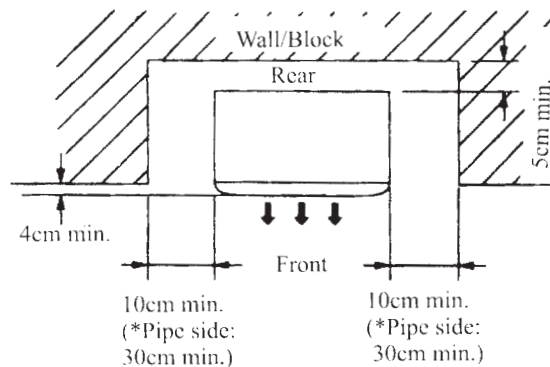


Fig. 11

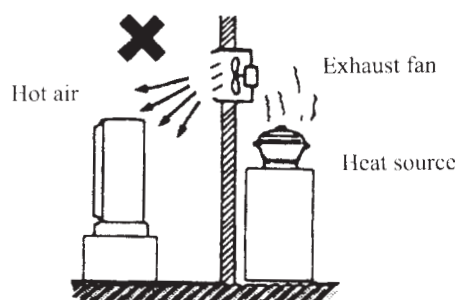


Fig. 12

(2) Outdoor unit

Avoid:

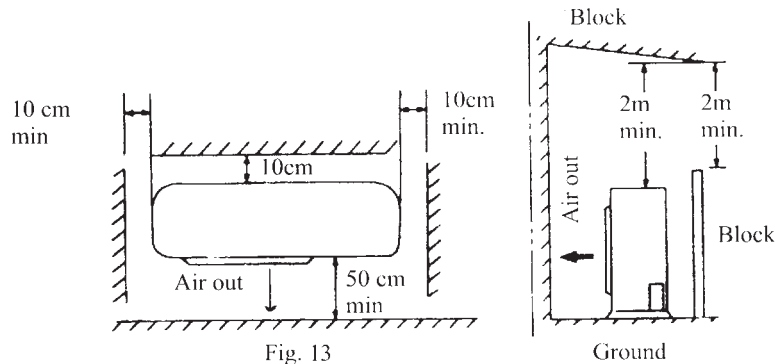
- Damp or uneven places.
- Heat source and exhaust fan, etc. (see Fig. 12)

Please choose a suitable installation place:

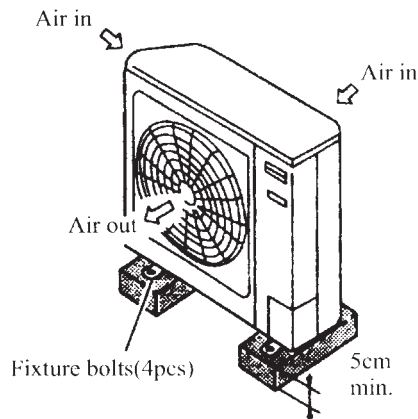
- Where it is as cool as possible and free of direct sunshine.
- Where there is good ventilation and outdoor temperature will not be higher than 43 °C.
- Where noise coming from the unit will not annoy your neighbors.
- Where the hot air released by the unit will not reach passers-by.

Floor Standing Type

- Where inflammable gas is unlikely to generate, flow in, stay or leak.
- Where there leaves enough space around the unit for free air flow and maintenance (see Fig. 13):



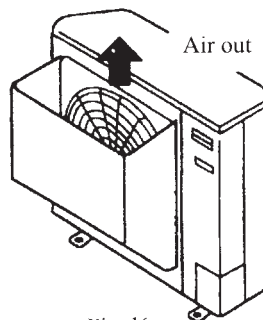
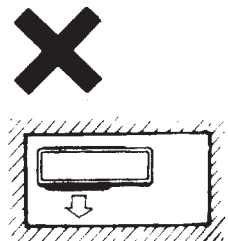
- Have a base which is strong enough (eg. cement bricks, etc.), at least 15cm above the ground, so as to reduce dampness and protect the unit from water erosion, hence prolong its service life (see Fig. 14).



- For cooling/heating type units, there will be water coming out of the unit while heating - please also take this into consideration while choosing installation place.

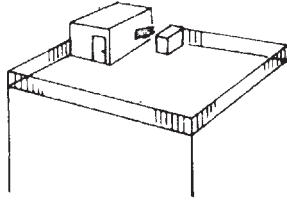
Note: 1. If there are blocks around the unit, then the place is not suitable for installation(see Fig. 15)

2. If it is hard to find a space of 50cm min. between the air outlet and block near it, or if the air outlet is facing the road and may blow hot air to passers-by, please install an air guide to let the air comes out upwards (see Fig. 16).
3. When the outdoor unit is installed on the roof or a place where there isn't other buildings around, please do as illustrated below(see Fig. 17) to avoid strong wind blowing the air outlet directly, which may cause troubles to the unit.



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- When there are walls around, please put the air outlet facing the wall (leaving a distance of 50 cm between unit and wall).



- When the air outlet may be affected by strong winds such as typhoon, please install an air guide (optional part provided per order)

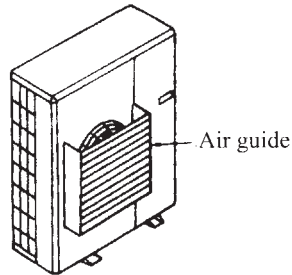


Fig. 17

7.2 Installation of the indoor/outdoor units

• Installation of the indoor unit:

- (1) Choose a place for indoor unit installation as described in 7.1
- (2) Use attached installation boards to fix the unit firmly to the wall and the ground (Fig. 18).
- (3) Drill a passing hole through the wall (if the connecting pipe and wires are to go through the wall).
- (4) Choose one of the four hole-positions (2 on the side and 2 on the rear) according to installation place (see Fig. 19), break it through and fit in passing hole cover for the passing of connecting pipe, drainage pipe and wires.

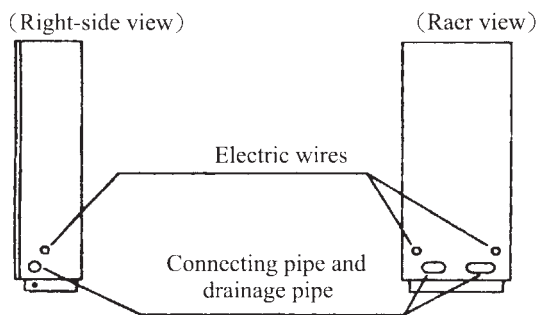


Fig. 19

Warning: Avoid areas where there are electric wires, gas pipes and other plumbing.

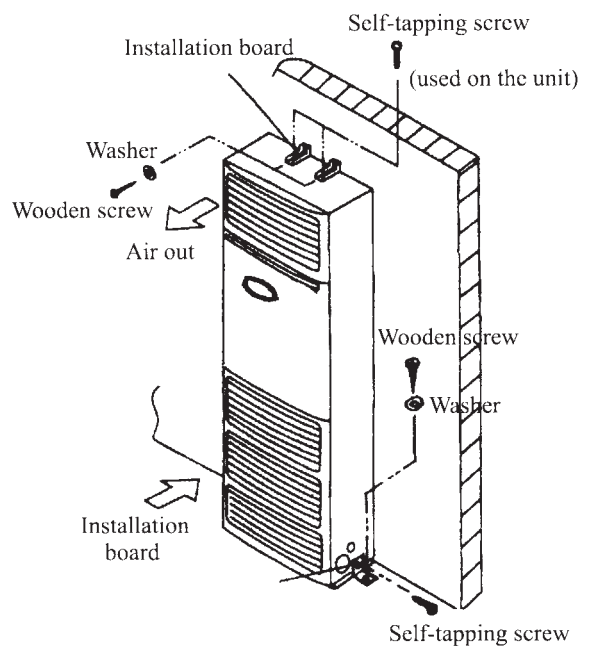


Fig. 18

• Installation of the outdoor unit:

- (1) Choose a place for outdoor unit installation as described in 7.1
- (2) Cushion the unit with bricks or strong base at least 15cm thick. (see Fig 20)
- (3) Use four bolts to fix the unit firmly to the bricks or base.

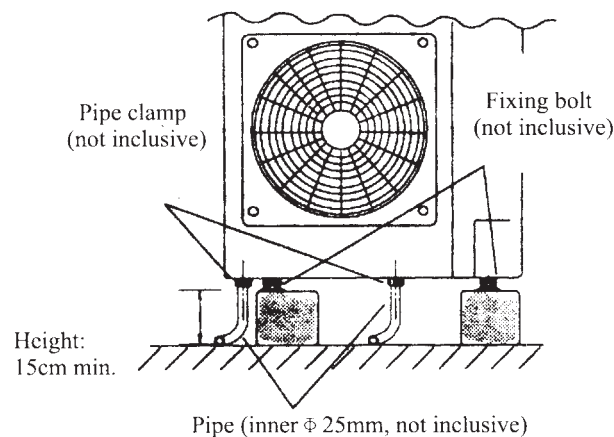


Fig. 20

7.3 Installation of the connecting pipe

• Cautions before installation:

- (1) The connecting pipe is coiled into its package and must be loosen and straighten before installation.
- (2) When doing this, let it go loose coil by coil naturally and do not pull it by force, or the pipe may be twisted (see Fig. 21)

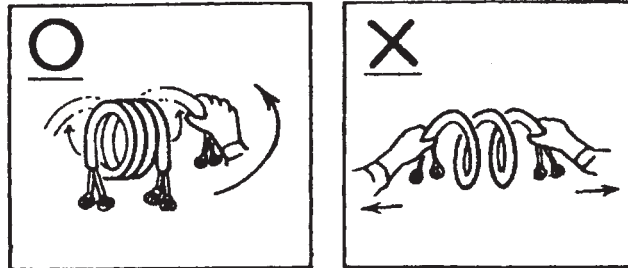


Fig. 21

- (3) When bending the pipe, make sure that radius of the bend must be at least 10cm, or the pipe may get flat; once the pipe is bent, do not bend it back and forth repeatedly, or it may get twisted or crack (see Fig. 22)

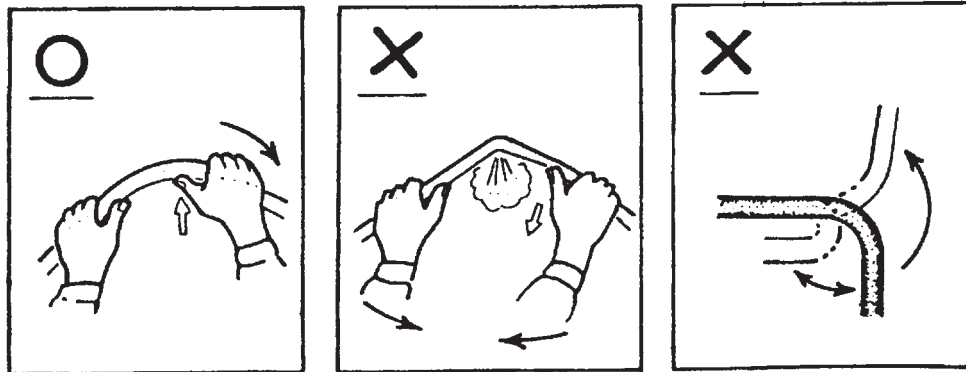


Fig. 22

• Connection of the pipe for indoor unit:

- (1) Remove Air intake grille and lower front panel.
- (2) Thread the connecting pipe through the passing hole of indoor unit, and fit it with the indoor unit pipe joint.
- (3) Readjust shape of the pipe to make it easy for the joint, match center of both pipe joints and screw with hand for 3~5 circles (see Fig. 23).

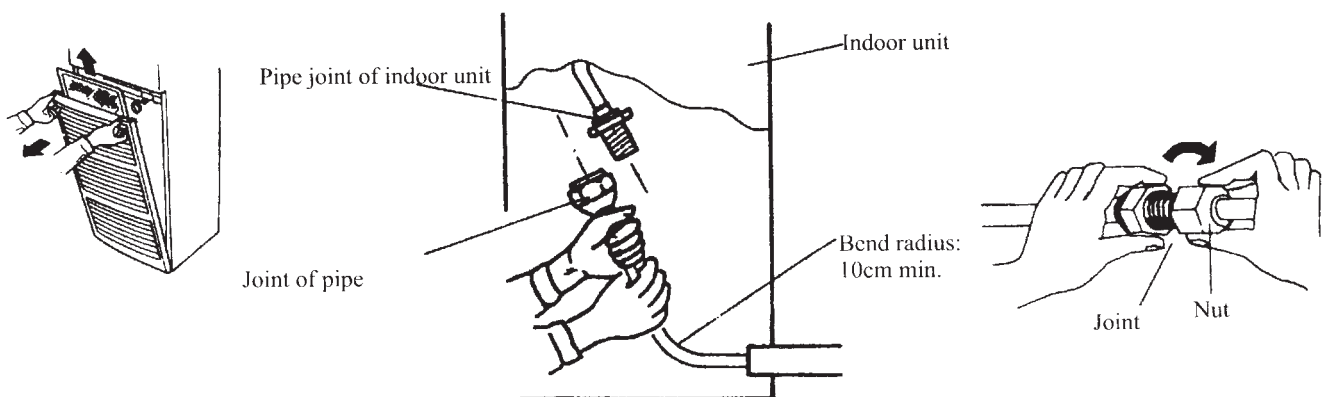


Fig. 23

- (4) Tighten nuts with wrench (see Tab.36 for moment of force) until the wrench gives a crack (be careful don't make it too tight, or screw thread and nut of the joint may be damaged and cause leakage of refrigerant, see Fig. 24).

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- Connection of the pipe for outdoor unit:

- (1) Put the outdoor pipe in order, if there is surplus pipe length, you can wind it around the unit and fix it properly.
- (2) Remove bonnet of the stop valve.
- (3) Match center of pipe with center of check valve joint, screw the joint nut with hand for several circles, and then tighten the cone nut properly with wrench.

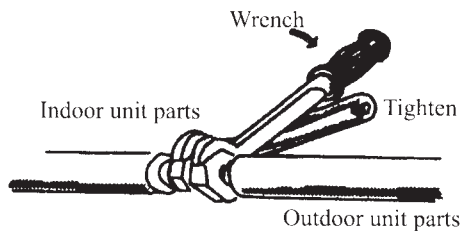


Fig 24

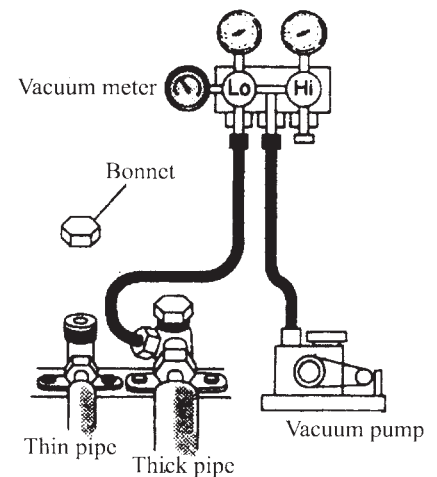


Fig 25

- (4) Exhaust air in the unit from the check valve with a vacuum pump(see Fig. 105).
 - a. Remove check valve bonnet of thick pipe.
 - b. Connect vacuum meter pipe to check valve joint of thick pipe.
 - c. Connet vacuum meter pipe to one end of pressure-resistant pipe, and connect its other end to vacuum pump.
 - d. Tighten high-pressure meter and open low pressure meter, then plug vacuum pump to power source.
 - e. When arm of vacuum meter points to about 15mmHg, tighten low pressure meter and turn off power, then remove pressure-resistant pipe that is connected to check valve of the thick pipe gas valve and fasten the bonnet.

Floor Standing Type

•Wrapping the connecting pipe

- (1) To avoid condensation dew and leakage of water, the thick pipe and thin pipe should be wrapped with thermal insulation material and gummed tape for insulation (see Fig. 26).

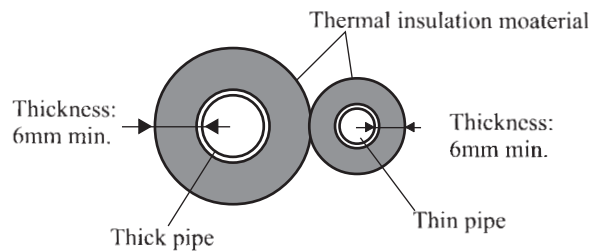


Fig 26

- (2) Wrap the nut connecting the thick pipe and thin pipe with thermal insulation material and gummed tape, and then fix the thick pipe and thin pipe with clip.

7.4 Drainage pipe connecting

- (1) Use PVC pipe and thread it through one of the four passing holes of the indoor unit and connect it to drainage pipe joint. Use binder to bind the joint tightly to avoid leaking.
- (2) The drainage pipe must be sloped downwards to prevent water from accumulating in the pipe.
- (3) Use thermal insulation tape to wrap the joint (see Fig. 28) tightly.
- (4) After finishing connection, insert water pipe to the right side of air outlet (see Fig. 29) and charge water gently to side plate of heat exchanger or inner wall of the unit. Charge 1000ml of water to check if the drainage is OK or if there is leakage.

Note: please operate this step with care while the indoor unit is with electric heater so that the electric heater will not get wet.

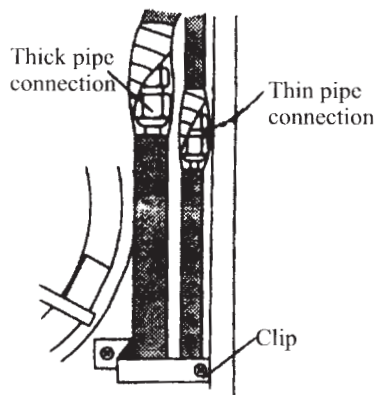


Fig 27

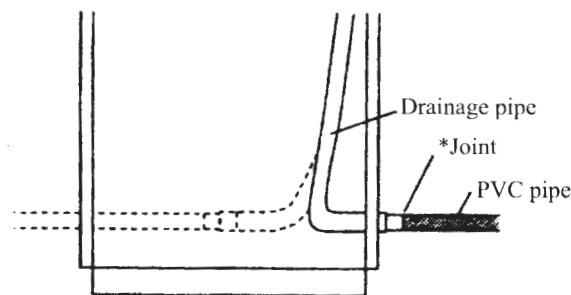


Fig 28

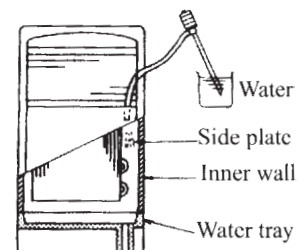


Fig 29

7.5 Wire connecting

- Before connecting the wires, please pay attention to the voltage listed on the nameplate, and then connect the wires according to the circuit diagram.
- Special power supply plug and switch must be used for the unit, and electricity switch and air switch must be included to deal with situation of an overload.
- Use a proper earth wire for the unit to prevent danger caused by possible ineffective insulation. ALL wire connecting must be done strictly according to the circuit diagram. Incorrect wiring may cause abnormal operation or damage to the unit.
- Do not let the wires touch the connecting pipe and moving parts such as compressor and motor. Altering the interior wiring could be very DANGEROUS, and the manufacturer shall not be held responsible for property loss or malfunctioning caused by such alterations.
- If the unit is installed at a place liable to be affected by electric/electromagnetic interference, it is advisable to use shielded/double-wrapped wires.
- Before connecting, please check thoroughly the control wire of indoor unit and power supply, etc.
- The wire connection must be done by qualified electricians.

Indoor/outdoor wire connecting (see Fig. 30 and Fig. 31)

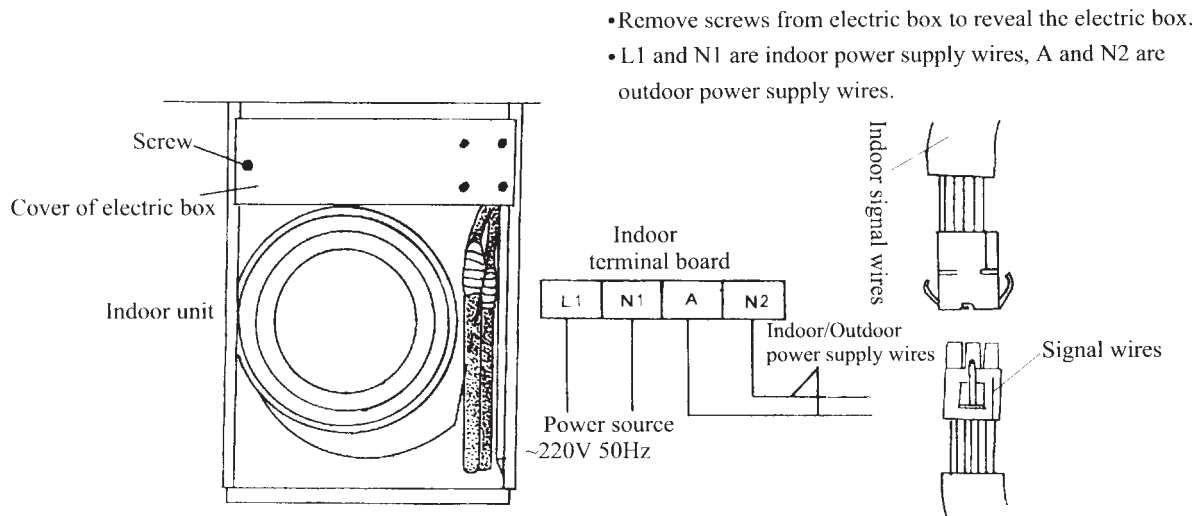


Fig. 30

- Remove front plate.
- Break through the passing hole and put on the square passing ring.
- Pull out the wires from terminal board of the outdoor unit, thread them through the outdoor passing hole and indoor passing hole, and connect them to the terminal board of the indoor unit.

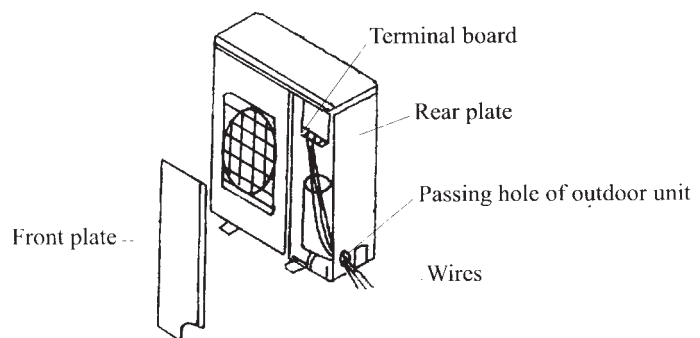
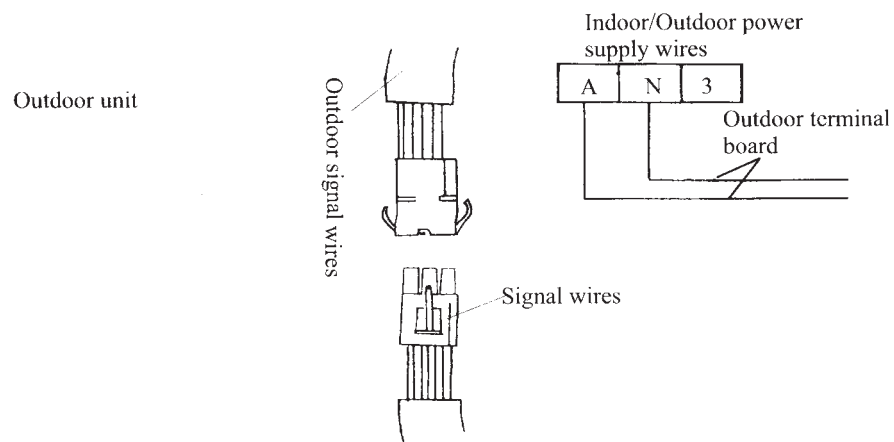


Fig. 31

8. Circuit diagram

These circuit diagrams are subject to change without notice.

Please refer to the ones stuck on the machines.

KF-70LW/E(7033L)D

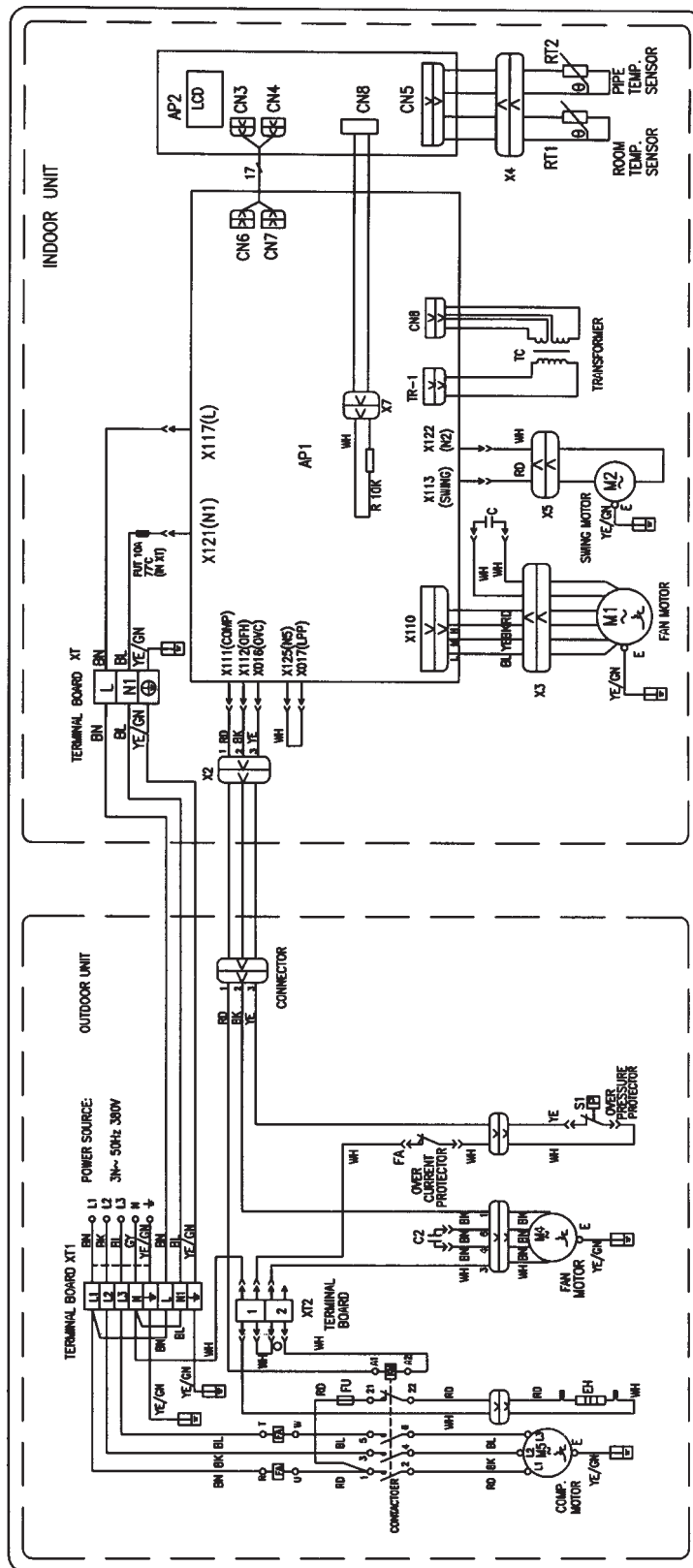


figure 32

KFR-70LW/E(7053L)D

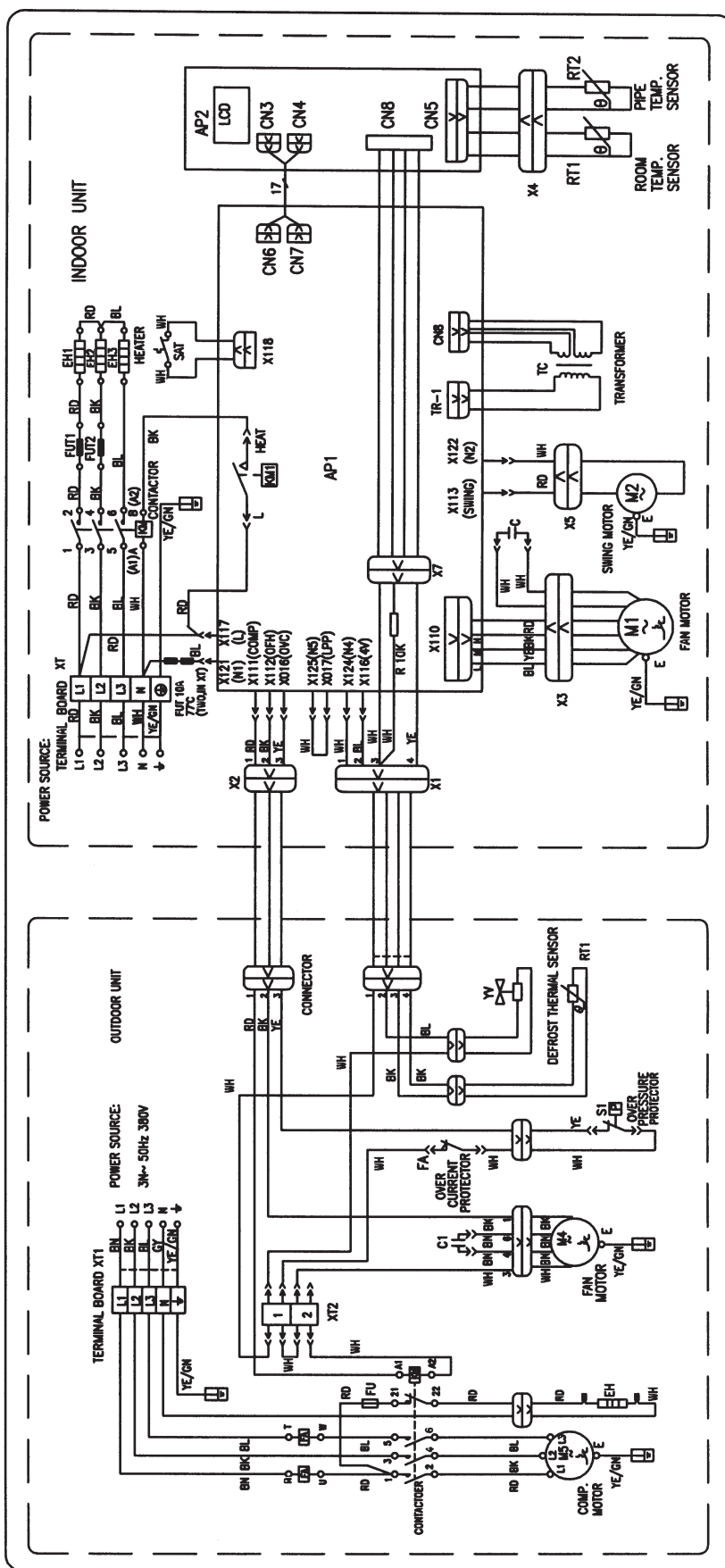


figure 33

KF-70LW/E (7032LA)D
KF-120LW/E (1232LA)V

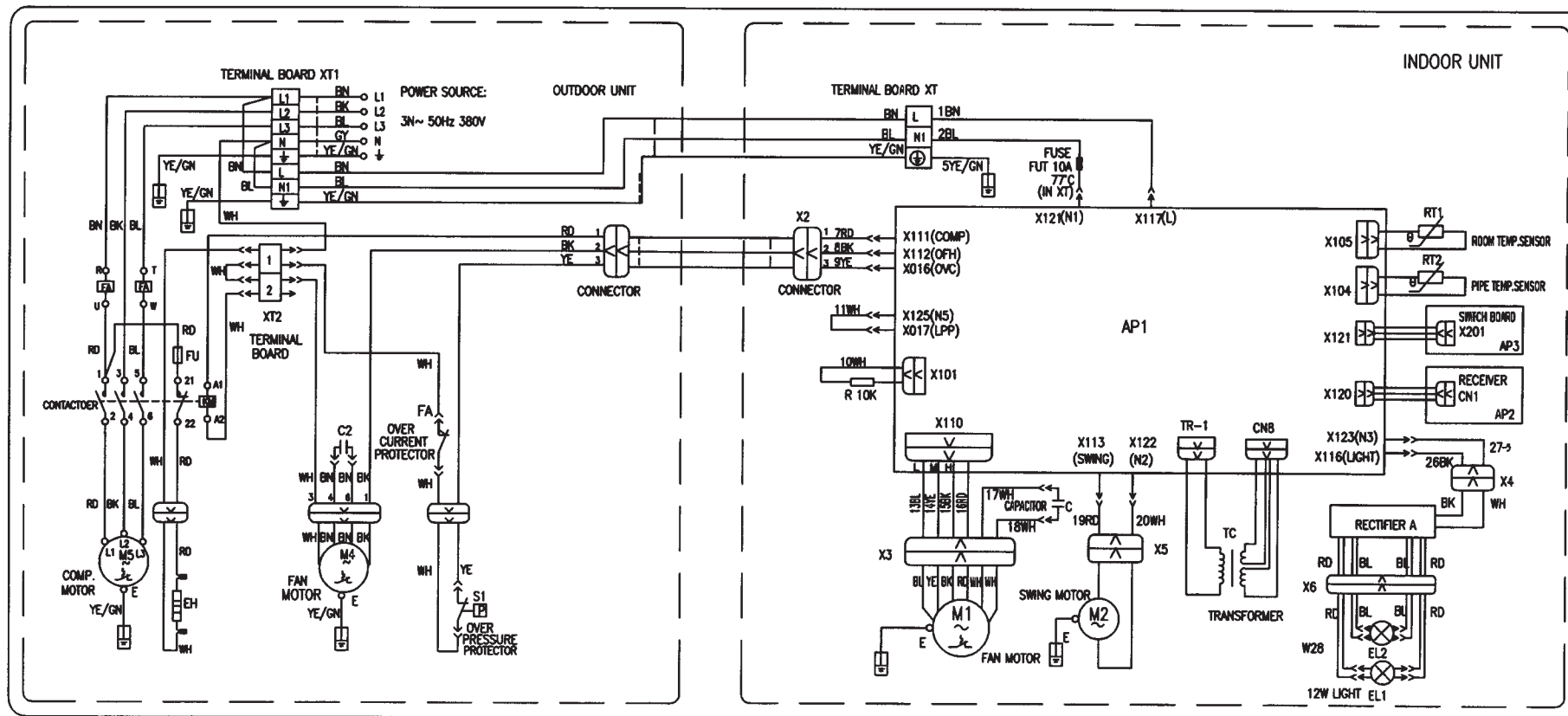


figure 34

KFR-70LW/E(7052LA) D
KFR-120LW/E(1252LA) V

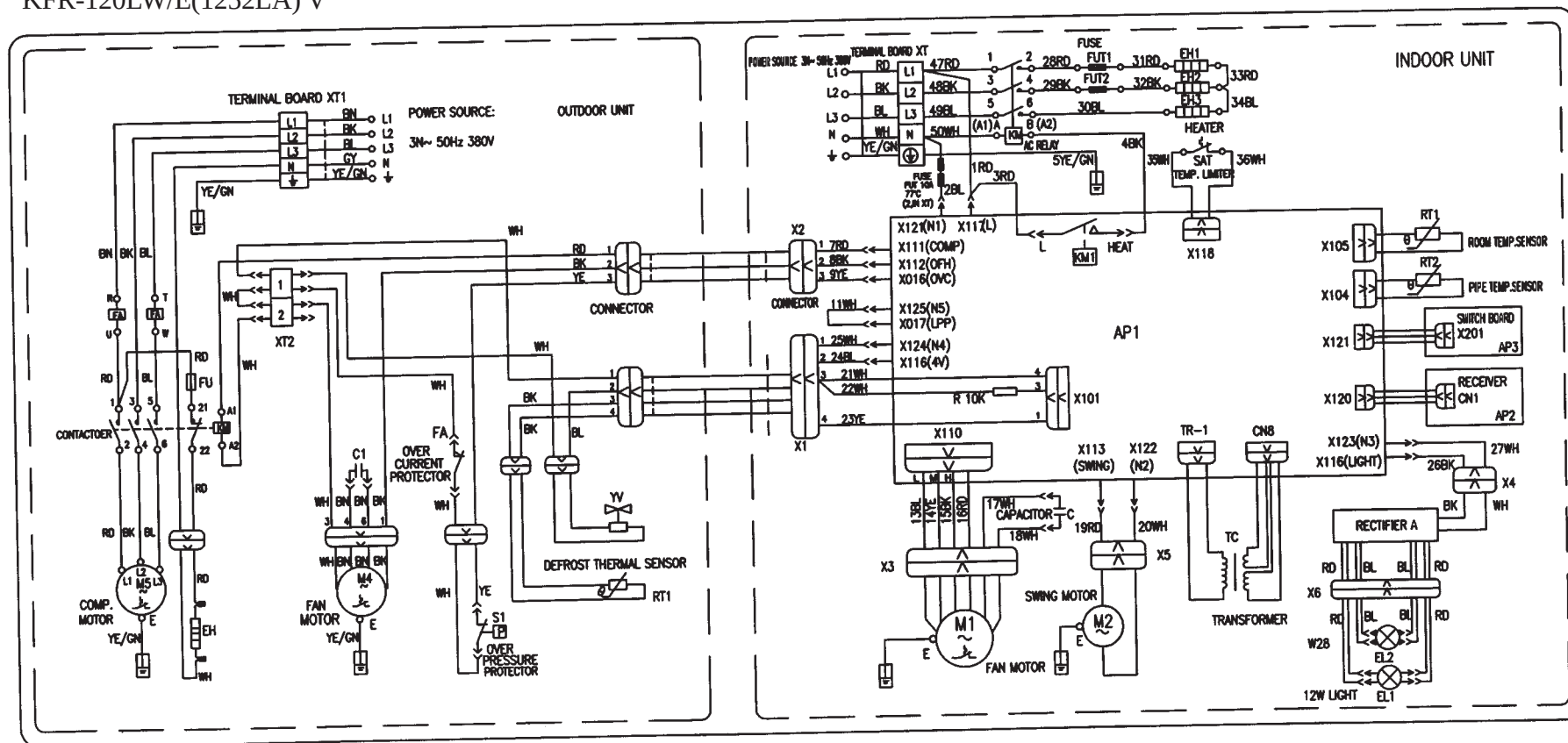


figure 35

KF-120LW/E(1233L) V

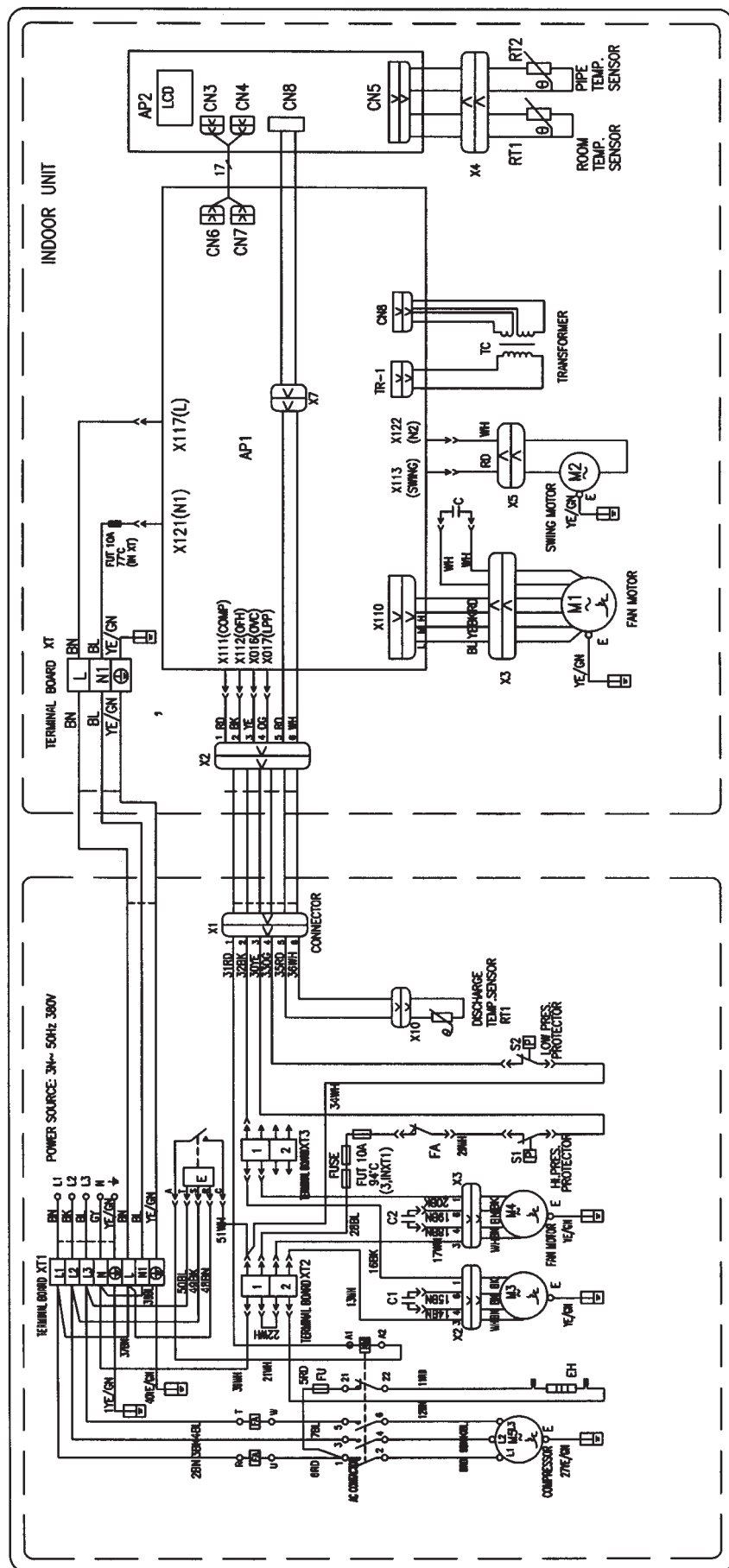


figure 36

KFR-120LW/E(1253L) V

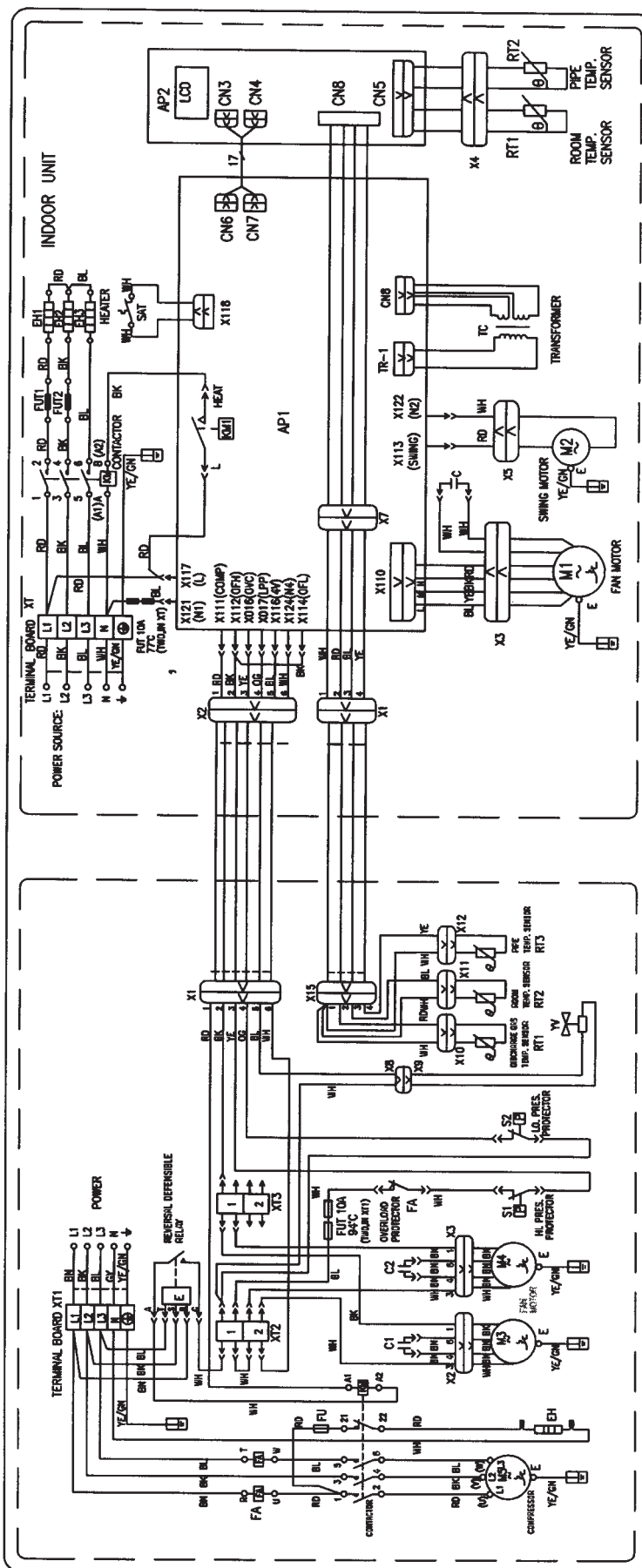


figure 37

KT3F-70LW/E1 (7033L1)

KT3F-70LW/A10 12205

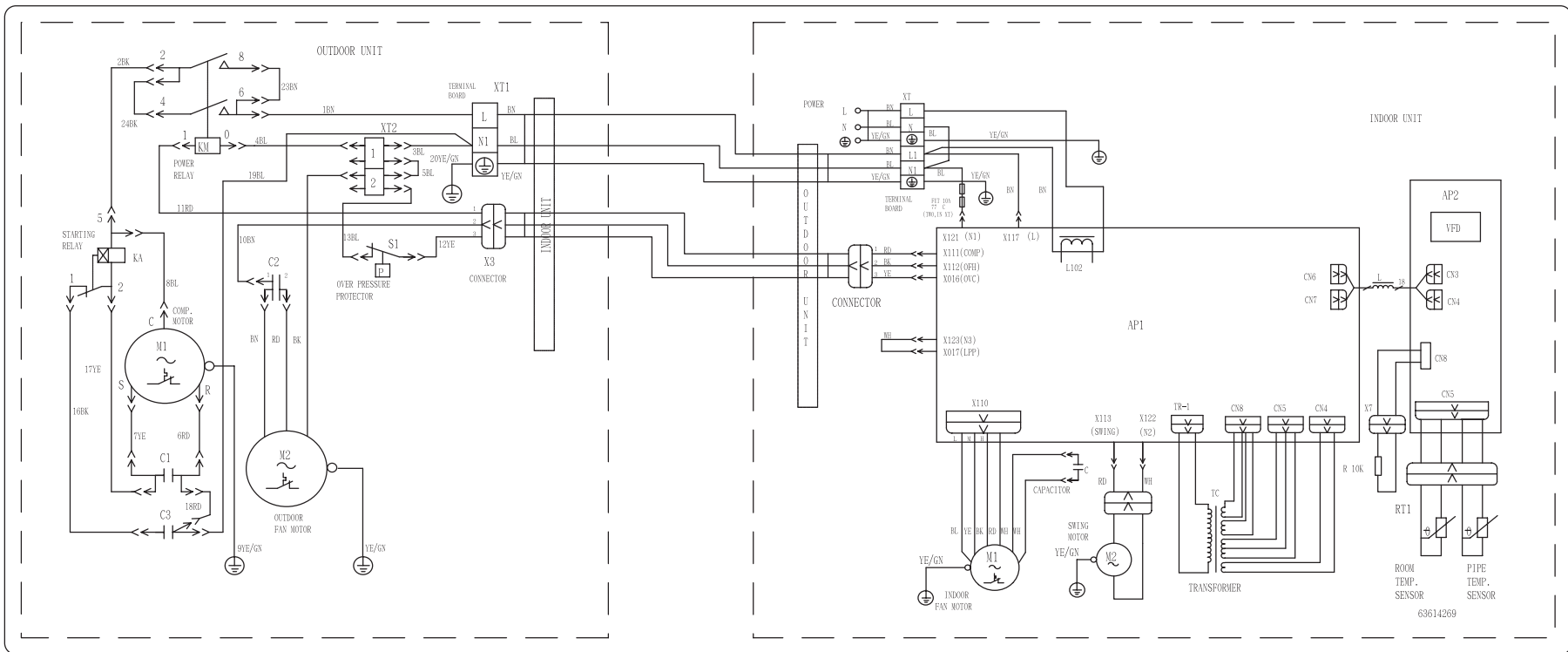


figure 38

KT3FR-70LW/E1 (7053L1)

KT3FR-70LW/A10 12205

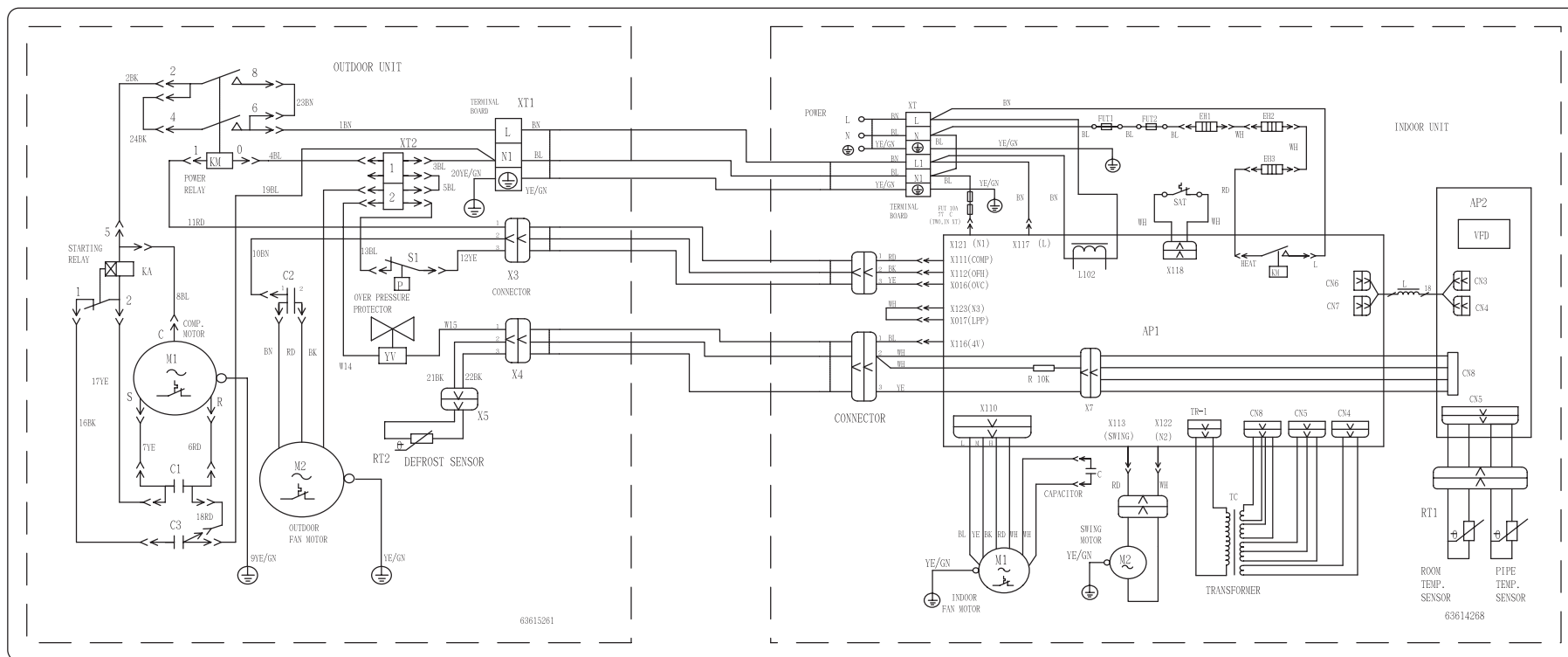


figure 39

KT3F-120LW/E

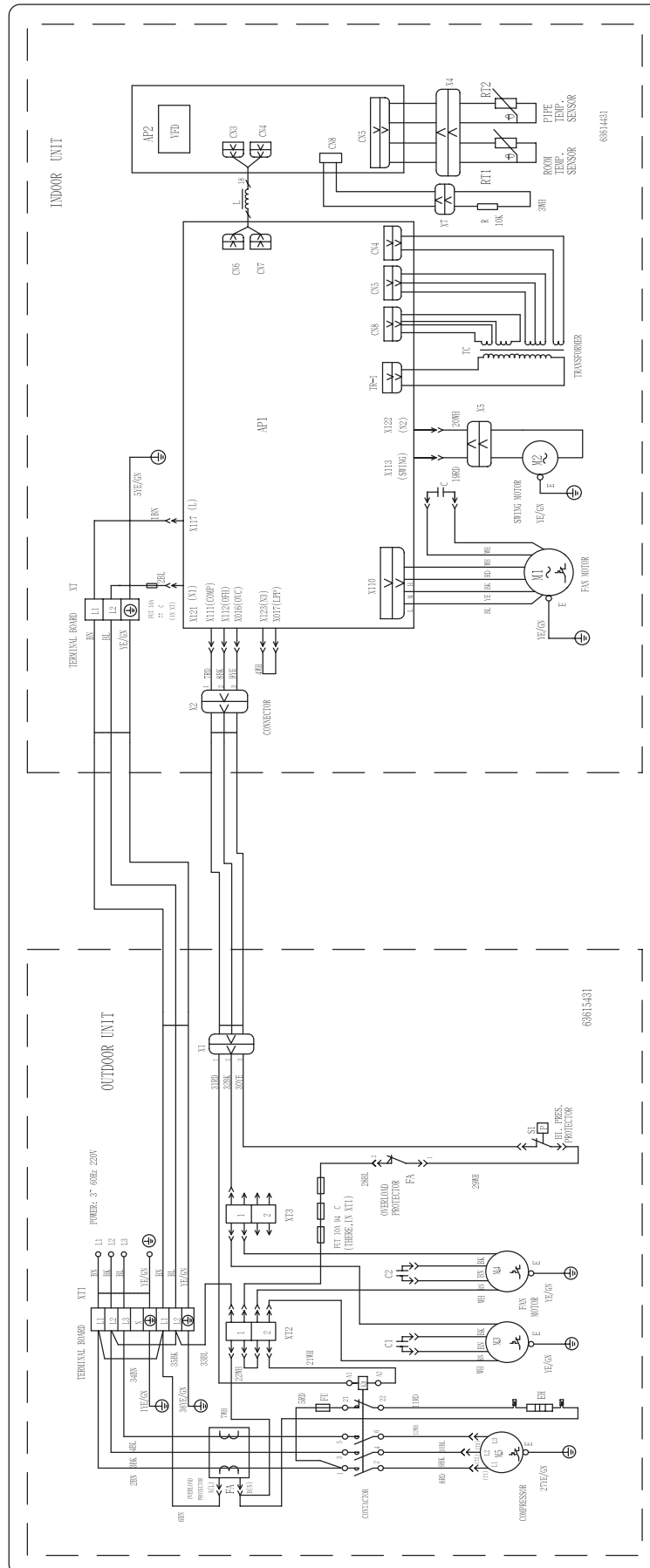


figure 40

KT3FR-120LW/E

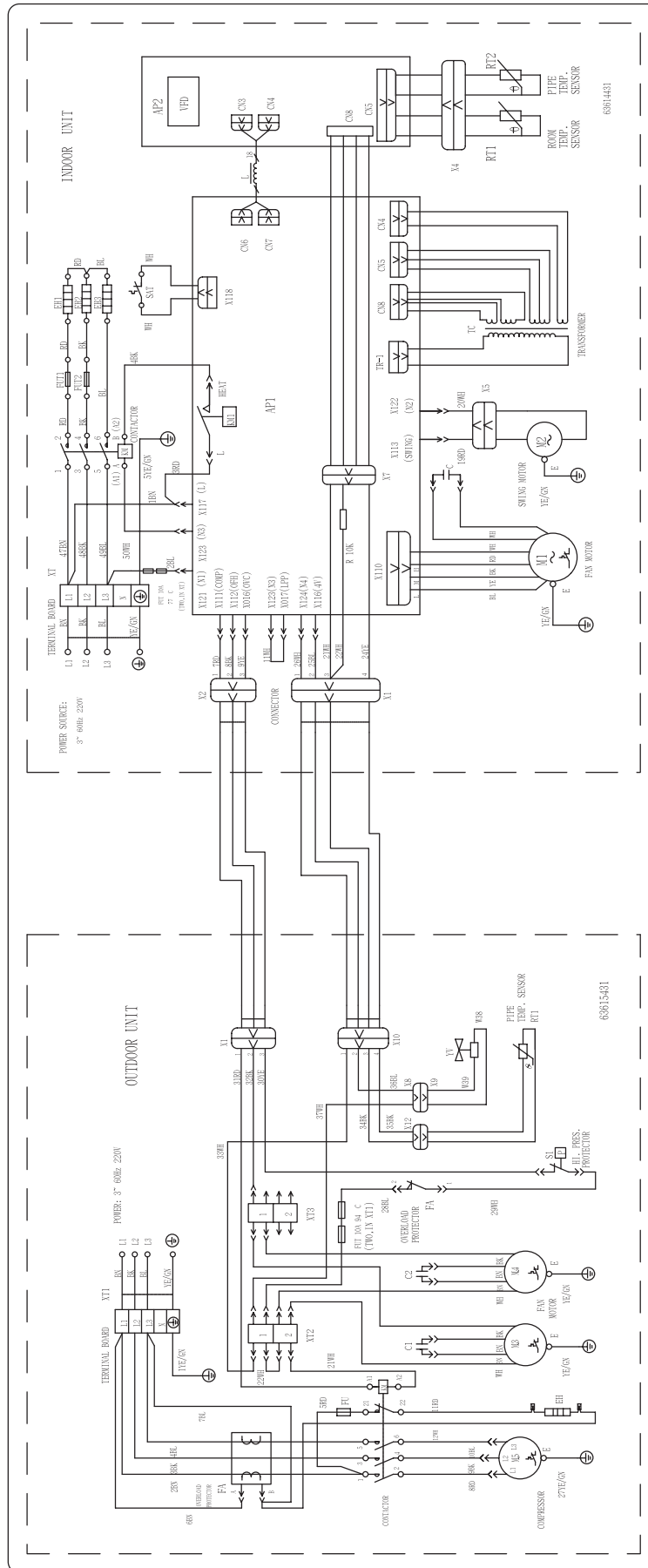


figure 41

KT3F-120LW/A10-33805

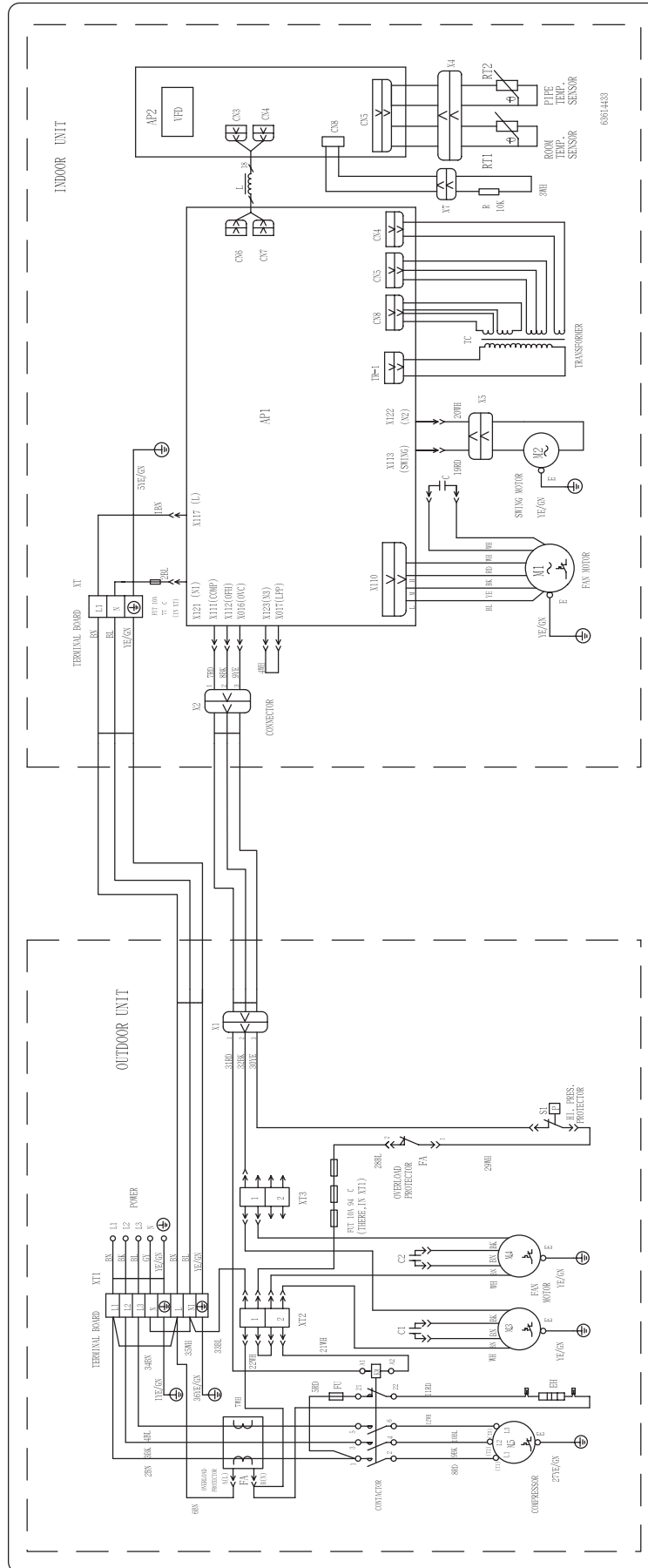


figure 42

KT3FR-120LW/A10-33805

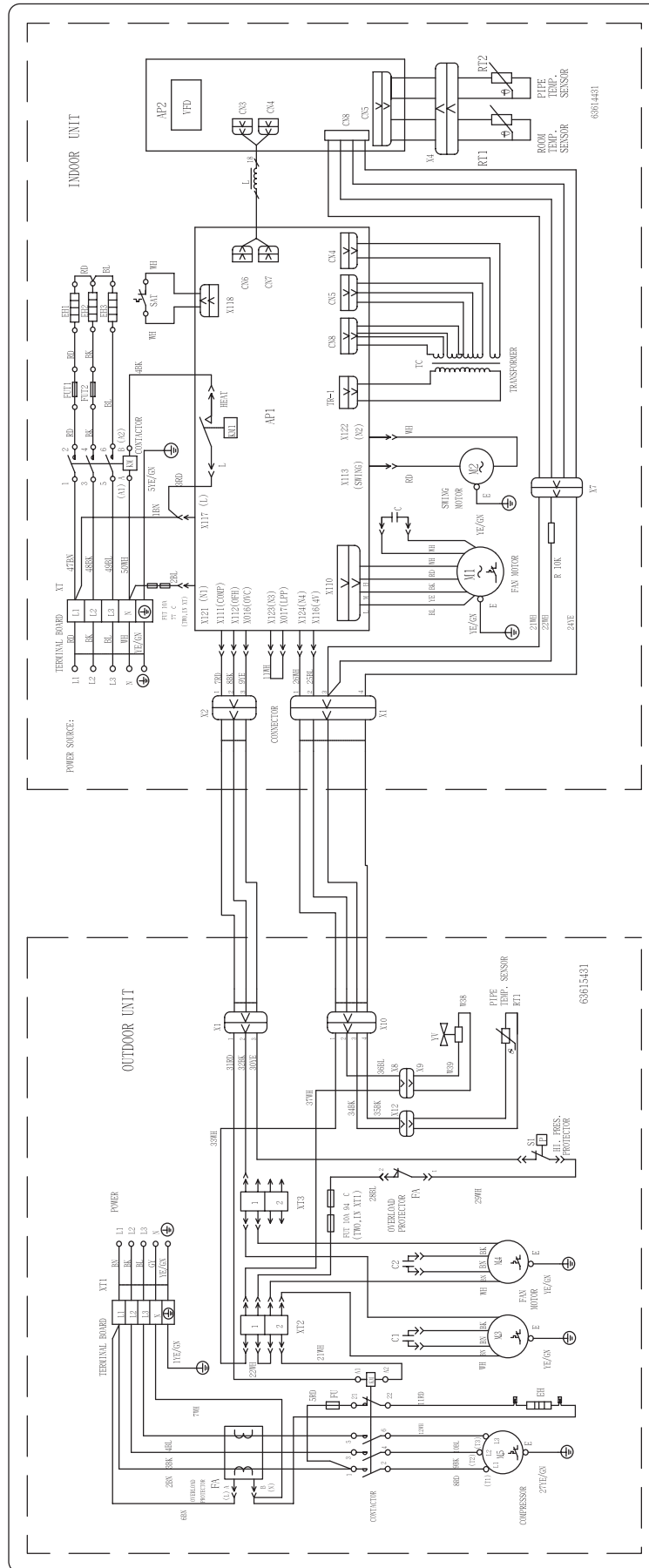


figure 43

GSV48-22L

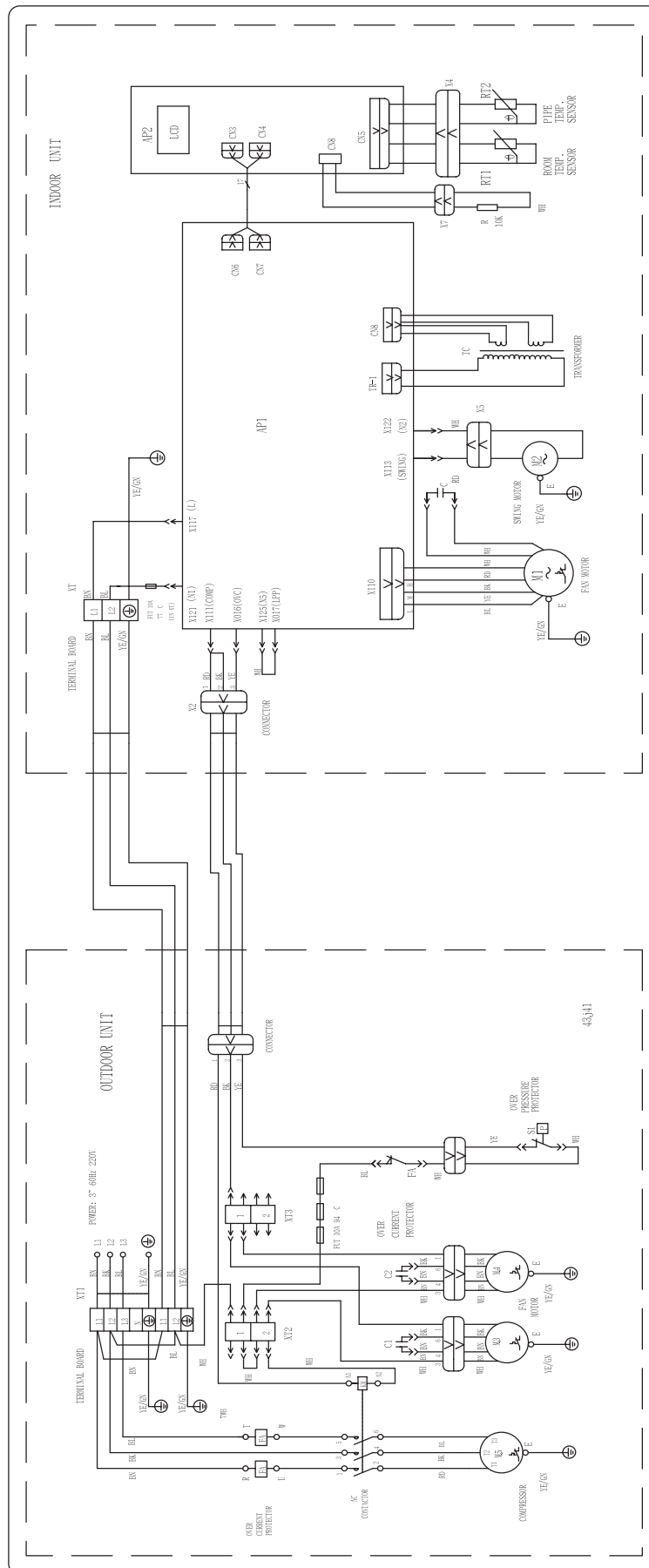


figure 44

GSV60-22L

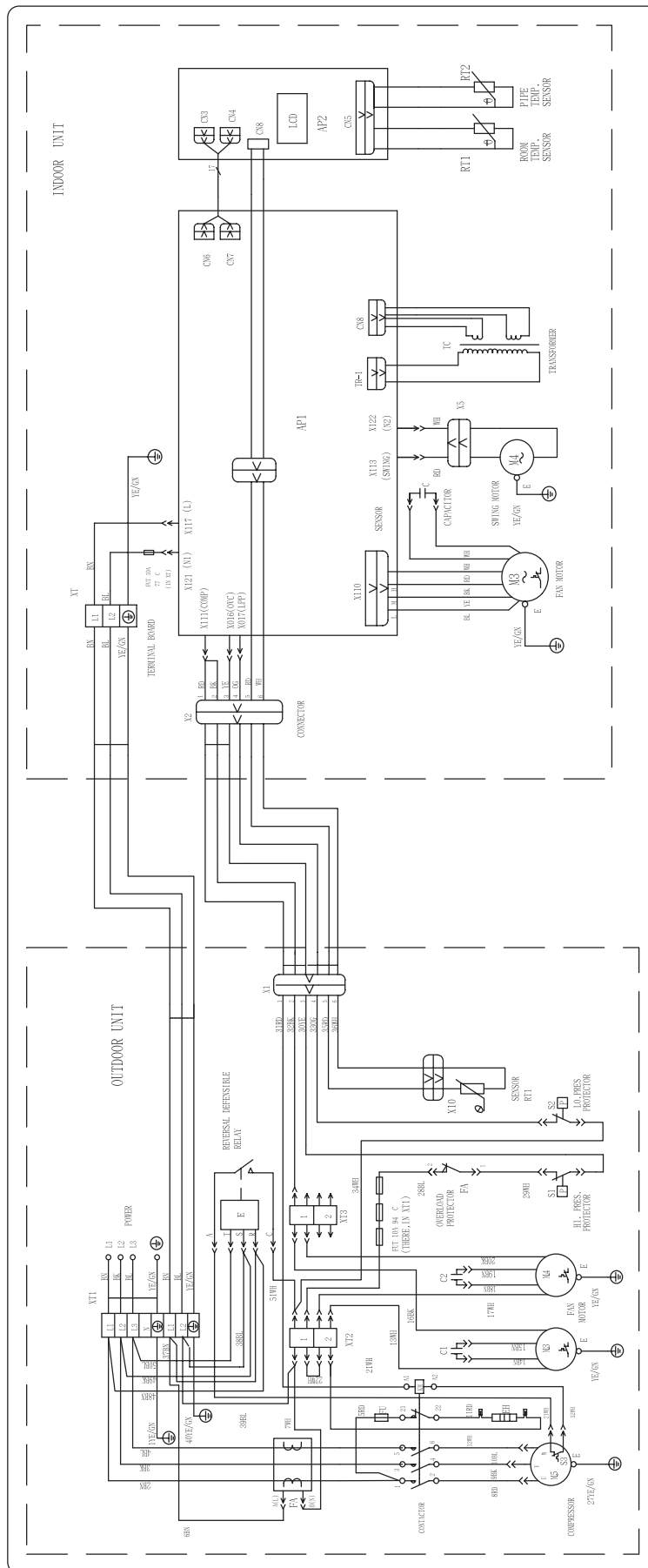


figure 45

9. PCB function manual

The PBC function manual of the floor standing A/C (new)

1. Running mode:

- 1) COOL; 2) DRY; 3) FAN; 4) HEAT; 5) AUTO.

2. Controlling contents:

- 1) indoor unit fan motor(high, middle and low speed);
- 2) sweep fan motor;
- 3) electrical heater;
- 4) outdoor unit fan motor(high and low);
- 5) reversing valve;
- 6) compressor;
- 7) light (only for the models having light);
- 8) fresh air fan motor;
- 9) anion creator.

3. The parameter to be input:

- 1) the ambient temperature of the indoor unit (shorten form is T_{in});
- 2) the evaporator temperature of the indoor unit (shorten form is T_{eva});
- 3) the condenser temperature of the outdoor unit (shorten form is T_{con});
- 4) the ambient temperature of the outdoor unit (shorten form is T_{out});
- 5) the temperature of the gas output from the compressor (shorten form is T_{output}).

4. The different controlling mode for the different function mode:

Under all of the modes, the compressor will continue work for 6 min once it starts. And it will be restart in 3min after it stops. At the beginning, the indoor unit fan motor runs for 8sec in high speed then change to the set fan speed; and it is same in the outdoor unit.

1) Cooling mode:

If $T_{in} \geq T_{set} - 1^{\circ}\text{C}$, cooling mode act, compressor and outdoor unit run, and indoor unit run in the set speed;

If $T_{in} \geq T_{set} - 1^{\circ}\text{C}$, the unit will be stop from cooling mode, compressor and outdoor unit stop, and indoor unit still run in the set speed;

If $T_{set} - 1^{\circ}\text{C} < T_{in} < T_{set} + 1^{\circ}\text{C}$, keep running in the old mode;

In the cooling mode, the range of T_{set} is $16^{\circ}\text{C} \sim 30^{\circ}\text{C}$, the initialize is 25°C

2) Drying mode:

If $T_{in} > T_{set} + 2^{\circ}\text{C}$, drying mode act, compressor, indoor unit fan motor and outdoor unit fan motor run, The indoor unit fan motor runs in low speed;

If $T_{set} - 2^{\circ}\text{C} \leq T_{in} \leq T_{set} + 2^{\circ}\text{C}$, compressor, indoor unit fan motor and outdoor unit fan motor run for 6min, then stop for 4min, then run by this cycle. The indoor unit fan motor runs in low speed;

If $T_{in} < T_{set} - 2^{\circ}\text{C}$, compressor, outdoor unit fan motor and indoor unit fan motor stop.

In drying mode, the range of T_{set} is $16^{\circ}\text{C} \sim 30^{\circ}\text{C}$, the initialize is 25°C , the outdoor fan motor runs in high speed.

3) Heating mode:

If $T_{in} \leq T_{set} - 1^{\circ}\text{C}$, heating mode act, reversing, compressor and outdoor unit fan motor run, indoor unit fan motor runs in the set speed and the condition of avoiding the cold wind;

If $T_{in} \geq T_{set} + 1^{\circ}\text{C}$, compressor and outdoor unit fan motor stop, reserving valve is still electric, the indoor unit fan motor runs in the set speed and flow the rest heat;

If $T_{set} - 1^{\circ}\text{C} < T_{in} < T_{set} + 1^{\circ}\text{C}$, keep running in the old mode;

In the heating mode, the range of T_{set} is $16^{\circ}\text{C}\sim 30^{\circ}\text{C}$, the initialize is 25°C .

In the heating mode, the 4-way valve will be electroless in 2min after the unit is turned off.

The working condition of the outdoor unit:

If $T_{\text{out}} \geq 16^{\circ}\text{C}$, the outdoor unit fan motor runs in low speed;

If $T_{\text{out}} \leq 13^{\circ}\text{C}$, the outdoor unit fan motor runs in high speed;

If $13^{\circ}\text{C} > T_{\text{out}} > 16^{\circ}\text{C}$, the outdoor unit fan motor runs in the old speed;

The outdoor unit fan motor stop when it is defrosting.

The conditions of avoiding cold wind:

Once the compressor work, either $T_{\text{eva}} \geq 30^{\circ}\text{C}$ or the compressor running for over 10sec, the indoor unit fan motor will start.

The conditions of flowing hot wind:

Once the compressor is stop, the indoor unit fan motor runs in low speed and will stop too in 10sec.

The conditions of beginning defrosting:

After the unit continue heating for 44min or if $T_{\text{con}} \leq -5^{\circ}\text{C}$, the defrosting mode act, the reversal valve, the indoor and outdoor unit stop.

If there is electrical heater in the unit, then it will be stop first and the reversal valve, the indoor and outdoor unit stop in 1min.

The conditions of stopping defrosting:

After the unit continue defrosting for 10min or if $T_{\text{con}} \geq 10^{\circ}\text{C}$, the defrosting stop, the reversal valve, the outdoor unit run, and the indoor unit fan motor will run in the condition of avoiding the cold wind.

The working condition of electrical heater:

When the indoor unit is running, and $T_{\text{eva}} \leq 44^{\circ}\text{C}$ and $T_{\text{in}} \leq 23^{\circ}\text{C}$, and $T_{\text{in}} \leq T_{\text{set}} - 2^{\circ}\text{C}$, the electrical heater act.

When the indoor unit is stop, or $T_{\text{eva}} \geq 52^{\circ}\text{C}$ or $T_{\text{in}} \geq 26^{\circ}\text{C}$, or $T_{\text{in}} \geq T_{\text{set}}$, the electrical heater stop and will restart in 2min.

4) Fanning mode:

The indoor unit fan motor runs in the set fan speed:



The range of is $16^{\circ}\text{C}\sim 30^{\circ}\text{C}$, the initialize is 25°C .

5) Auto mode:

It runs according the T_{in} .

If $T_{\text{in}} \geq 26^{\circ}\text{C}$, cooling mode act, the T_{set} is 26°C automatically.

If $20^{\circ}\text{C} \leq T_{\text{in}} \leq 26^{\circ}\text{C}$, drying mode act, the T_{set} is 24°C automatically.

If $T_{\text{in}} \leq 20^{\circ}\text{C}$, heating mode act, the T_{set} is 20°C automatically till $T_{\text{in}} \geq 24^{\circ}\text{C}$.

If the unit is cooling only, if $T_{\text{in}} \leq 20^{\circ}\text{C}$, fanning mode act, the T_{set} is 20°C automatically till $T_{\text{in}} \geq 24^{\circ}\text{C}$.

Once the each mode act, it will be in 30sec to change to the auto mode according the T_{in} .

5. Timer and sleep mode:

1) Sleep mode:

If it is cooling or drying, in 1hour of the beginning, the T_{set} will be increased 1°C , and it will be increased 1°C after 2hour, then the unit runs in this temperature.

If it is heating, in 1hour of the beginning, the T_{set} will be decreased 1°C , and it will be decreased 1°C after 2hour, then the unit runs in this temperature.

There is no sleep mode when fanning and auto mode act.

2) Timer for Turn on:

The unit is stop when the timer for turn on is acted, when it time to turn on, the controller will act in the set mode. The distance of setting twice is 0.5hour and the range time is 0.5~24hour.

3) Timer for Turn off:

The unit is run when the timer for turn off is acted, the unit is stop when it time to turn off. He distance of setting twice is 0.5hour and the range time is 0.5~24hour.

6. Fresh air and Anion function:

1) Fresh air function:(it's unavailable when it is turned off)

This mode act when the button of "fresh air" is pressed once and the indoor unit fan motor is run (or received the signal of "fresh air" or "fresh air 2" of the remote controller); and it will stopped when the button is pressed once again.

2) Anion function: (it's unavailable when it is turned off)

This mode act when then button of "anion" is pressed once and the indoor unit fan motor is run.

7. Other functions:

1) Sweeping:

It is controlled by the button of "sweep" on the remote controller. It is available when the indoor unit fan motor is run.

2) Light (just for the models with light):

It is controlled by the button of "light" on the remote controller. It is available at any moment.

3) Buzzer function:

It will be act when the controller is turned on or received a right signal.

4) Auto fan speed of indoor unit:

When heating act:

If $T_{in} \geq T_{set}$, the indoor unit fan motor runs in low fan speed;

If $T_{set}-3^{\circ}\text{C} \leq T_{in} < T_{set}$, it is middle fan speed;

If $T_{in} < T_{set}-3^{\circ}\text{C}$, it is high fan speed.

When cooling act:

If $T_{in} < T_{set}$, it is low fan speed;

If $T_{set} < T_{in} \leq T_{set}+3^{\circ}\text{C}$, it is middle fan speed;

If $T_{in} > T_{set}+3^{\circ}\text{C}$, it is high fan speed.

When fanning act:

If $T_{in} < T_{set}$, it is low fan speed;

If $T_{set} < T_{in} \leq T_{set}+3^{\circ}\text{C}$, it is middle fan speed;

If $T_{in} > T_{set}+3^{\circ}\text{C}$, it is high fan speed.

The indoor unit fan motor will run by the rules till it runs for 30sec after the unit is turned on.

5) Indicator light:

It flashes once when the unit is turned on and it will be flashing when:

Defrosting, avoiding the cold wind, protecting of the compressor in high-pressure, protecting of the compressor in low-pressure, protecting of the low power supply, protecting of the high-temperature of the compressor outlet pipe, cooling forcibly, heating forcible (just for LCD).