

**SERVICE MANUAL** 

# **UNI SPLIT SERIES**

ASC-xxBI, ASD-xxBI, ASF-xxBI, ASGE-xxBI, ASGE-xxBI-3



"Original instructions"

#### IMPORTANT NOTE:

Read this manual carefully before installing or operating your new air conditioning unit. Make sure to save this manual for future reference.

## **Foreword**

Thank you for choosing Sinclair air conditioners. In order to correctly install and use our units, and for the satisfactory operation effect, please read this manual carefully.

This manual specifies safe operation requirements from perspectives of product introduction, control, troubleshooting and maintenance, as well as basic principles and implementation methods. Professional operators must abide by relevant national (local) safety requirements and technical specifications set forth in this manual during operations; otherwise, the air conditioning system may fail or be damaged, and personnel safety accident may also occur.

## **Safety Notice**

	The air conditioner is charged with flammable refrigerant R32.
	Before using the air conditioner, please first read the instruction manual.
i	Before installing the air conditioner, please first read the instruction manual.
	Before repairing the air conditioner, please first read the technical service manual.

Compared with common refrigerant, R32 is an environmental-friendly refrigerant that has no harm to the ozone layer and weak greenhouse effect. Its GWP is 675. Because of its thermodynamic characteristics, R32 requires a smaller charging quantity to reach high energy efficiency. It is inflammable and odourless, but may cause explosion under certain circumstances.

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## **Safety Notice on Maintenance**



- Do not pierce or burn.
- Please note that refrigerant may be odorless.
- The appliance shall be stored in a room without continuously operating ignition sources (For example: open flames, an operating gas appliance or an operating electric heater).
- Indoor unit adopts special joints that can't be detached. The installation method is the same with the common joints. However, because the joint can't be detached, if it is badly connected and causes leakage, it needs to be cut and replaced by a new one through welding.
- Using unsuitable parts or tools may lead to electric shock or fire hazard.
- If refrigerant leaks during maintenance, please ventilate the room immediately. Heavy leakage may lead to breathing difficulty, severe injury or death.
- 7. Disconnect power before disassembling the appliance for maintenance.
- The appliance should be maintained and cared by authorized technical personnel with necessary qualifications.



#### WARNING:

- If the working place is more than 2m's high, please wear a safety helmet, gloves and a safety belt.
- Never mix any other substances except the specified refrigerant into the refrigerant circuit. 2.
- When re-locating the appliance, check whether the new location is strong enough to withstand the weight of the appliance.
- 4. If there is refrigerant leak, please fix the leak before charging in the refrigerant. After refrigerant is charged, check for refrigerant leaks. If you cannot spot the leak, stop the maintenance work. Please evacuate the system and close the service valve to prevent refrigerant leaking into the room.
- 5. Prepare suitable tools and protectors.
- 6. If you need to carry out maintenance or check the electric circuit without cutting off the power, please be careful not to touch the electrical parts.



- If the appliance is maintained at a humid place, it should be grounded to avoid electric shock.
- Never repair the unit with wet hands. Operating the unit with wet hands may lead to electric shock.
- If the unit is not correctly grounded, please check and fix it.
- Before cleaning the unit, please disconnect power to prevent the inner fan from starting up and running at high speed; otherwise personal injury may occur.
- Measure the insulation resistance after maintenance. The resistance must be 1M or higher. Bad insulation may lead to electric shock.
- Welding and cutting work must be done in a well-ventilated place.
- 7. Gas appliances, heaters and other fire sources should be kept away from the installation and maintenance site.
- 8. Maintenance should be done according to suggestions of the manufacturer.
- Maintenance should be done only after the refrigerant is completely reclaimed from the unit.



#### **OBSERVED:**

- After the maintenance work is done, check the drainage of indoor unit.
- Do not tilt the unit, otherwise, water may spill out from the unit and make the floor and furniture wet.

3. Disassembly of the unit, handling of the refrigerant, oil and accessories should all be done according to applicable local rules and regulations.

## Safety Notice on Operation



#### PROHIBITED:

- 1. Never try to modify the unit, otherwise, it may cause electric shock, overheat or fire hazard.
- 2. If the power cord or conducting wires are scratched, please replace them.
- 3. Never use connected or extended power cord or share the power socket with other appliances.
- 4. Prepare a specialized power circuit for the appliance.



#### WARNING:

- 1. If the power plug is dirty, please clean it before inserting it to the power socket. If the power plug is loose, please tighten it up.
- 2. Do not damage the power cord. A damaged or refitted power cord may lead to electric shock or fire hazard.
- 3. Check frequently whether the appliance is in good condition.



#### NOTICE:

- 1. After changing the batteries of remote control, please discard them to avoid being swallowed by children.
- 2. When the unit is working, do not remove the fan cover.
- 3. Do not use organic solvents to wipe the controller operating panel.
- 4. Before cleaning the unit, cut off the power supply.

## 1. Product Introduction

## 1.1 Lists of Units

## 1.1.1 List of ODUs

Model	Power Supply V/Ph/Hz	Appearance
ASGE-12BI		
ASGE-18BI		
ASGE-24BI		
ASGE-30BI	220-240V~50Hz 208-230V~60Hz	
ASGE-36BI		
ASGE-36BI-3		
ASGE-42BI-3	380-415V 3N~50/60Hz	
ASGE-48BI-3		
ASGE-60BI-3	380-415V 3N~50/60Hz	

Note: 1 Ton =12000Btu/h = 3.517kW

If one outdoor unit is to be connected with multiple indoor units, the indoor units must have the same cooling capacity and be of the same type.

## 1.1.2 List of IDUs

		Rated Cooling/	Power Supply	
Model		Hating Capacity (kw)	V/Ph/Hz	Appearance
	ASC-12BI	3.5/4.0		
	ASC-18BI	5.0/5.5		
	ASC-24BI	7.0/8.0	220-240V~50Hz 208-230V~60Hz	
Cassette	ASC-30BI	8.5/8.8		
Туре	ASC-36BI	10.0/12.0		
	ASC-42BI	12.1/13.5		
	ASC-48BI	13.4/15.5		
	ASC-60BI	14.5/17.0		

	Model	Rated Cooling/ Hating	Power Supply  V/Ph/Hz	Appearance
		Capacity (kw)	V/PII/HZ	
	ASD-12BI	3.5/4.0		
Duct Type	ASD-18BI	5.0/5.5	220-240V~50Hz 208-230V~60Hz	
	ASD-24BI	7.0/8.0		
	ASD-30BI	8.5/8.8		
	ASD-36BI	10.0/12.0		

		Rated Cooling/	Power Supply		
I	Model		V/Ph/Hz	Appearance	
	ASD-42BI	12.1/13.5			
Duct Type	ASD-48BI	13.4/15.5	220-240V~50Hz 208-230V~60Hz		
	ASD-60BI	16.0/17.0			
	ASF-12BI	3.5/4.0			
	ASF-18BI	5.0/5.5			
Floor Ceiling Type	ASF-24BI	7.0/8.0	220-240V~50Hz 208-230V~60Hz		
	ASF-30BI	8.5/8.8			
	ASF-36BI	10.0/12.0			

Model		Rated Cooling/	Power Supply	Appearance	
		Hating Capacity (kw)	V/Ph/Hz		
	ASF-42BI	12.1/13.5			
Floor Ceiling Type	ASF-48BI	13.4/15.5	220-240V~50Hz 208-230V~60Hz	_	
	ASF-60BI	16.0/17.0			

Note: The outdoor unit is generally suitable to any one of the three types of indoor units with no need of change (limited to cassette type, duct type and floor ceiling type).

## **1.2 Electrical Parameters**

Model	Power supply	Circuit breaker capacity	Min. sectional area of power cord
	V/Ph/Hz	A	mm²
ASGE-12BI		13	1.5
ASGE-18BI	220-240V~50Hz - 208-230V~60Hz	16	2.5
ASGE-24BI		16	2.5
ASGE-30BI		20	4.0
ASGE-36BI		25	4.0
ASGE-36BI-3	380-415V 3N~50/60Hz	16	2.5
ASGE-42BI-3		16	2.5
ASGE-48BI-3		16	2.5
ASGE-60BI-3		16	2.5

Model	Power Supply	Fuse Capacity	Circuit Breaker Capacity	Min. Sectional Area of Power Cord
	V/Ph/Hz	Α	Α	mm²
Indoorunit	220-240V~50Hz	2.45	c	1.5
Indoor unit	208-230V~60Hz	3.15	6	1.5



- 1) Fuse is located on the main board.
- ② Install a circuit breaker at every power terminal near the units (indoor and outdoor units) with at least 3mm contact gap. The units must be able to be plugged or unplugged.
- ③ Circuit breaker and power cord specifications listed in the above table are determined based on the maximum power input of the units.
- Specifications of power cords listed in the above table are applicable in a working condition where ambient temperature is 40℃ and multi-core copper cable (e.g. YJV copper cable, with insulated PE and PVC sheath) is protected by a conduit, and is resistant to 90℃ in maximum (See IEC 60364-5-52). If working condition changes, please adjust the specifications according to national standards.
- ⑤ Specifications of circuit breaker are based on a working condition where the working temperature is 40 ℃. If working condition changes, please adjust the specifications according to national standards.
- Adopt 2pc of 0.75mm² power cords to be the communication cords between indoor and outdoor units. The maximum length is 100m. Please select a proper length according to local conditions. Communication cords must not be twisted together. To be in compliance with EN 55014, it is necessary to use 8 meters long wire.
- Adopt 2pc of 0.75mm² power cords to be the communication cords between wired control and indoor unit. The maximum length is 30m. Please select a proper length according to local conditions. Communication cords must not be twisted together. To be in compliance with EN 55014, it is necessary to use 7.5 meters long wire.
- The wire gauge of communication cord should not be less than 0.75mm². It's recommended to use 0.75mm² power cords as the communication cords.

MODEL			ASGE-12BI	ASGE-18BI
Capacity cooling/heating	Nominal	kW	3,5/4,0	5,0/5,5
Power supply		Hz / V	1~/50/220-240	1~ / 50 / 220-240
Power input cooling/heating		W	950/1050	1550/1450
Maximal power input		W	1350	1750
Power current cooling/heating		Α	4,18/4,70	6,50/6,90
Maximal power current		А	6,0	8,0
Airflow of OD	Н	m <sup>3</sup> /h	3000	3000
Sound pressure of OD in 1m	Н	dB(A)	50	50
Sound power of OD	Н	dB(A)	64	65
Refrigerant type/charge		Type / kg / t eq.CO <sub>2</sub>	R32/0,78/0,53	R32/1,00/0,68
Additional refrigerant		g / m	16	16
Pipe diameter - liquid side		inch / mm	1/4 / 6,4	1/4 / 6,4
Pipe diameter - gas side		inch / mm	3/8 / 9,5	1/2 / 12,7
Standard pipe length		m	5	5
Max. allowed pipe length		m	30	35
Max. elevation/ Drop height		m	15	20
Dimension of OD	w x h x d	mm	818×596×378	818×596×378
Package dimension of OD	wxhxd	mm	948×645×420	948×645×420
Weight of OD	netto / brutto	kg	37/40	39/42
Operating temperature range	Cooling	°C	<b>-20∼48</b>	-20~48
Operating temperature range	Heating	°C	<b>-20∼24</b>	-20~24

#### ADDITIONAL TECHNICAL INFORMATION

Screw holes distance of OD	w x d	mm	550x348	550x348
Communication cable		mm <sup>2</sup>	2 x 0,75	2 x 0,75
Recommended power cable		mm <sup>2</sup>	3 x 1,5	3 x 2,5
Recommended air switch		А	13	16

MODEL			ASGE-24BI	ASGE-30BI
Capacity cooling/heating	Nominal	kW	7,0/8,0	8,5/8,8
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240
Power input cooling/heating		W	2100/2450	2800/2650
Maximal power input		W	3500	3950
Power current cooling/heating		А	8,80/10,50	12,7/11,7
Maximal power current		А	16,0	18,0
Airflow of OD	Н	$m^3/h$	3600	4000
Sound pressure of OD in 1m	Н	dB(A)	52	53
Sound power of OD	Н	dB(A)	67	69
Refrigerant type/charge		Type / kg / t eq.CO <sub>2</sub>	R32/1,60/1,08	R32/1,80/1,22
Additional refrigerant		g / m	40	40
Pipe diameter - liquid side		inch / mm	3/8 / 9,5	3/8 / 9,5
Pipe diameter - gas side		inch / mm	5/8 / 15,9	5/8 / 15,9
Standard pipe length		m	5	5
Max. allowed pipe length		m	50	50
Max. elevation/ Drop height		m	25	25
Dimension of OD	wxhxd	mm	892×698×396	920×790×427
Package dimension of OD	w x h x d	mm	1029×750×458	1083×855×488
Weight of OD	netto / brutto	kg	53/57	60/65
Operating temperature range	Cooling	°C	-20 <b>~</b> 48	<b>-20∼48</b>
Operating temperature range	Heating	°C	<b>−20∼24</b>	<b>-20∼24</b>

#### ADDITIONAL TECHNICAL INFORMATION

Screw holes distance of OD	wxd	mm	560x364	610x395
Communication cable		mm <sup>2</sup>	2 x 0,75	2 x 0,75
Recommended power cable		mm <sup>2</sup>	3 x 2,5	3 x 4,0
Recommended air switch		Α	16	20

MODEL			ASGE-36BI	ASGE-36BI-3
Capacity cooling/heating	Nominal	kW	10,0/12,0	10,0/12,0
Power supply		Hz / V	1~ / 50 / 220-240	3~ / 50 / 380-415
Power input cooling/heating		W	3300/3600	3300/3500
Maximal power input		W	4050	4650
Power current cooling/heating		А	14,5/15,9	5,1/5,6
Maximal power current		А	18,5	7
Airflow of OD	Н	$m^3/h$	5900	5900
Sound pressure of OD in 1m	Н	dB(A)	55	55
Sound power of OD	Н	dB(A)	70	70
Refrigerant type/charge		Type / kg / t eq.CO <sub>2</sub>	R32/2,50/1,69	R32/2,5/1,69
Additional refrigerant		g/m	40	40
Pipe diameter - liquid side		inch / mm	3/8 / 9,5	3/8 / 9,5
Pipe diameter - gas side		inch / mm	5/8 / 15,9	5/8 / 15,9
Standard pipe length		m	5	5
Max. allowed pipe length		m	65	65
Max. elevation/ Drop height		m	30	30
Dimension of OD	w x h x d	mm	940×820×530	940×820×530
Package dimension of OD	w x h x d	mm	1073×868×563	1073×868×563
Weight of OD	netto / brutto	kg	83/95	89/101
Operating temperature range	Cooling	°C	<b>-20∼48</b>	<b>-20∼48</b>
Operating temperature range	Heating	°C	<b>-20∼24</b>	<b>-20∼24</b>
ADDITIONAL TECHNICAL INFORMA	ATION	<del>,</del>		
Screw holes distance of OD	w x d	mm	610x486	610x486
Communication cable		mm <sup>2</sup>	2 x 0,75	2 x 0,75
Recommended power cable		mm <sup>2</sup>	3 x 4,0	5 x 2,50
Recommended air switch		A	25	16
MODEL			ASGE-42BI-3	ASGE-48BI-3
Capacity cooling/heating	Nominal	kW	12.1/13.5	13.4/15.5

MODEL			ASGE-42BI-3	ASGE-48BI-3	
Capacity cooling/heating	Nominal	kW	12,1/13,5	13,4/15,5	
Power supply		Hz / V	3~/50/380-415	3~ / 50 / 380-415	
Power input cooling/heating		W	4050/4150	4700/4450	
Maximal power input		W	5300	5950	
Power current cooling/heating		А	5,9/6,1	7,2/6,7	
Maximal power current		А	8	9	
Airflow of OD	Н	m <sup>3</sup> /h	5900	5900	
Sound pressure of OD in 1m	Н	dB(A)	56	57	
Sound power of OD	Н	dB(A)	71	72	
Refrigerant type/charge		Type / kg / t eq.CO <sub>2</sub>	R32/2,65/1,79	R32/2,8/1,89	
Additional refrigerant		g / m	40	40	
Pipe diameter - liquid side		inch / mm	3/8 / 9,5	3/8 / 9,5	
Pipe diameter - gas side		inch / mm	5/8 / 15,9	5/8 / 15,9	
Standard pipe length		m	5	7,5	
Max. allowed pipe length		m	75	75	
Max. elevation/ Drop height		m	30	30	
Dimension of OD	wxhxd	mm	940×820×530	940×820×530	
Package dimension of OD	wxhxd	mm	1073×868×563	1073×868×563	
Weight of OD	netto / brutto	kg	95/107	99/111	
Operating temperature range	Cooling	°C	<b>-20∼48</b>	<b>-20∼48</b>	
Operating temperature range	Heating	°C	<b>−20~24</b>	<b>−20~24</b>	

#### ADDITIONAL TECHNICAL INFORMATION

Screw holes distance of OD	wxd	mm	610x486	610x486
Communication cable		mm <sup>2</sup>	2 x 0,75	2 x 0,75
Recommended power cable		mm <sup>2</sup>	5 x 2,5	5 x 2,5
Recommended air switch		Α	16	16

MODEL			ASGE-60BI-3
Capacity cooling/heating	Nominal	kW	16,0/17,0
Power supply		Hz / V	3~ / 50 / 380-415
Power input cooling/heating		W	5450/5400
Maximal power input		W	5950
Power current cooling/heating		А	7,7/7,6
Maximal power current		А	9
Airflow of OD	Н	$m^3/h$	6600
Sound pressure of OD in 1m	Н	dB(A)	57
Sound power of OD	Н	dB(A)	72
Refrigerant type/charge		Type / kg / t eq.CO <sub>2</sub>	R32/3,6/2,43
Additional refrigerant		g / m	40
Pipe diameter - liquid side		inch / mm	3/8 / 9,5
Pipe diameter - gas side		inch / mm	5/8 / 15,9
Standard pipe length		m	7,5
Max. allowed pipe length		m	75
Max. elevation/ Drop height		m	30
Dimension of OD	w x h x d	mm	900×1345×412
Package dimension of OD	w x h x d	mm	1033×1395×443
Weight of OD	netto / brutto	kg	112/122
Operating temperature range	Cooling	°C	<b>-20∼48</b>
Operating temperature range	Heating	°C	<b>-20∼24</b>

#### ADDITIONAL TECHNICAL INFORMATION

Screw holes distance of OD	w x d	mm	572x378
Communication cable		mm <sup>2</sup>	2 x 0,75
Recommended power cable		mm <sup>2</sup>	5 x 2,5
Recommended air switch		А	16

MODEL			ASC-12BI / ASGE-12BI	ASC-18BI / ASGE-18BI
Capacity cooling/heating	Nominal	kW	3,5/4,0	5,0/5,5
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240
Energy class cooling		-	A+	A+
Pdesign cooling		kW	3,5	5,0
SEER		-	5,9	5,9
Annual power consumption		kWh	213	296
Energy class heating	Average climate	-	A+	A+
Pdesign heating	Average climate	kW	3,1	4,0
SCOP	Average climate	-	4,0	4,0
Annual power consumption	Average climate	kWh	1069	1405
Air flow of ID	MH/H/M/L	$m^3/h$	650/580/480/400	700/580/480/400
Sound pressure of ID in 1,4m	MH/H/M/L	dB(A)	39 / 36 / 33	44/39/36/33
Sound power of ID	MH	dB(A)	57	53
External static pressure	nom/min-max	Pa	-	-
Dehumidifying volume		I/h	=	-
Refrigerant type		Туре	R32	R32
Pipe diameter - liquid side		inch / mm	¼ / 6,4	¼ / 6,4
Pipe diameter - gas side		inch / mm	<b>%</b> / 9,5	½ / 12,7
Dimension of ID	w x h x d	mm	570×265×570	570×265×570
Dimension of panel	w x h x d	mm	620×47,5×620	620×47.5×620
Package dimension of ID	w x h x d	mm	698×295×653	698x295x653
Package dimension of panel	w x h x d	mm	701×125×701	701×125×701
Weight of ID	netto / brutto	kg	17/22	17/22
Weight of panel	netto / brutto		3,0 / 4,5	3,0 / 4,5
Set temperature range		°C	16~30	16 <b>~</b> 30

MODEL			ASC-24BI / ASGE-24BI	ASC-30BI ASGE-30BI
Capacity cooling/heating	Nominal	kW	7,0 (0,76-7,34) / 8,0 (1,63-8,43)	8,5 (1,03-8,92) / 8,8 (1,95-9,11)
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240
Energy class cooling		=	A++	A++
Pdesign cooling		kW	7,0	8,5
SEER		-	7,2	6,1
Annual power consumption		kWh	340	472
Energy class heating	Average climate	=	А	A+
Pdesign heating	Average climate	kW	6,4	7,2
SCOP	Average climate	-	3,9	4,0
Annual power consumption	Average climate	kWh	2297	2616
Air flow of ID	MH/H/M/L	$m^3/h$	1100/1050/960/870	1400/1310/1180/1040
Sound pressure of ID in 1,4m	MH/H/M/L	dB(A)	43/42/40/39	49/47/44/41
Sound power of ID	MH	dB(A)	52	58
External static pressure	nom/min-max	Pa	-	-
Dehumidifying volume		I/h	-	-
Refrigerant type		Type	R32	R32
Pipe diameter - liquid side		inch / mm	¾ / 9,5	¾ / 9,5
Pipe diameter - gas side		inch / mm	<b>% / 15,9</b>	<b>% / 15,9</b>
Dimension of ID	w x h x d	mm	840×240×840	840×240×840
Dimension of panel	w x h x d	mm	950×52×950	950×52×950
Package dimension of ID	w x h x d	mm	963×325×963	963×325×963
Package dimension of panel	w x h x d	mm	1033×112×1038	1033×112×1038
Weight of ID	netto / brutto	kg	29/36	29/36
Weight of panel	netto / brutto		6,0/9,5	6,0/9,5
Set temperature range		°C	16 <b>~</b> 30	16 <b>~</b> 30

MODEL			ASC-36BI / ASGE-36BI	ASC-36BI / ASGE-36BI-3
Capacity cooling/heating	Nominal	kW	10,0 (1,17-10,59) / 12,0 (2,61-12,42)	10,0 (1,17-10,59) / 12,0 (2,61-12,42)
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240
Energy class cooling		-	A++	A++
Pdesign cooling		kW	10,0	10,0
SEER		-	6,1	6,1
Annual power consumption		kWh	566	533
Energy class heating	Average climate	-	A+	A+
Pdesign heating	Average climate	kW	9,0	9,0
SCOP	Average climate	-	4,0	4,0
Annual power consumption	Average climate	kWh	3139	3168
Air flow of ID	MH/H/M/L	$m^3/h$	1500/1470/1380/1220	1500/1470/1380/1220
Sound pressure of ID in 1,4m	MH/H/M/L	dB(A)	50/48/46/42	50/48/46/42
Sound power of ID	MH	dB(A)	59	59
External static pressure	nom/min-max	Pa	-	-
Dehumidifying volume		I/h	-	•
Refrigerant type		Туре	R32	R32
Pipe diameter - liquid side		inch / mm	<b>%</b> / 9,5	<b>%</b> / 9,5
Pipe diameter - gas side		inch / mm	<b>% / 15,9</b>	<b>% / 15,9</b>
Dimension of ID	w x h x d	mm	840×240×840	840×240×840
Dimension of panel	w x h x d	mm	950×52×950	950×52×950
Package dimension of ID	w x h x d	mm	963×325×963	963×325×963
Package dimension of panel	w x h x d	mm	1033×112×1038	1033×112×1038
Weight of ID	netto / brutto	kg	31/38	31/38
Weight of panel	netto / brutto		6,0/9,5	6,0/9,5
Set temperature range		°C	16 <b>~</b> 30	16 <b>~</b> 30

MODEL			ASC-42BI / ASGE-42BI-3	ASC-48BI / ASGE-48BI-3
Capacity cooling/heating	Nominal	kW	12,1 (1,51-12,7) / 13,5 (3,09-13,97)	13,4 (1,71-14,06) / 15,5 (3,20-16,04)
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240
Energy class cooling		-	A++	A++
Pdesign cooling		kW	-	-
SEER		-	6,1	6,1
Annual power consumption		kWh	-	-
Energy class heating	Average climate	-	А	A+
Pdesign heating	Average climate	kW	-	-
SCOP	Average climate	-	3,8	4,0
Annual power consumption	Average climate	kWh	•	-
Air flow of ID	MH/H/M/L	$m^3/h$	1800/1690/1470/1260	1900/1690/1480/1140
Sound pressure of ID in 1,4m	MH/H/M/L	dB(A)	51/49/46/42	52/51/48/45
Sound power of ID	MH	dB(A)	60	61
External static pressure	nom/min-max	Pa	-	-
Dehumidifying volume		I/h	-	-
Refrigerant type		Туре	R32	R32
Pipe diameter - liquid side		inch / mm	<b>%</b> / 9,5	¾ / 9,5
Pipe diameter - gas side		inch / mm	<b>% / 15,9</b>	<b>% / 15,9</b>
Dimension of ID	w x h x d	mm	840×240×840	840×240×840
Dimension of panel	w x h x d	mm	950×52×950	950×52×950
Package dimension of ID	w x h x d	mm	963×325×963	963×325×963
Package dimension of panel	w x h x d	mm	1033×112×1038	1033×112×1038
Weight of ID	netto / brutto	kg	33/41	36/44
Weight of panel	netto / brutto		6,0/9,5	6,0/9,5
Set temperature range		°C	16 <b>~</b> 30	16 <b>~</b> 30

MODEL			ASC-60BI / ASGE-60BI-3
Capacity cooling/heating	Nominal	kW	16,0 (2,02-15,22) / 17,0 (3,54-17,59)
Power supply		Hz / V	1~ / 50 / 220-240
Energy class cooling		-	A++
Pdesign cooling		kW	-
SEER		-	6,1
Annual power consumption		kWh	-
Energy class heating	Average climate	-	Α
Pdesign heating	Average climate	kW	-
SCOP	Average climate	-	3,8
Annual power consumption	Average climate	kWh	-
Air flow of ID	MH/H/M/L	$m^3/h$	2000/1880/1620/1430
Sound pressure of ID in 1,4m	MH/H/M/L	dB(A)	54/52/50/48
Sound power of ID	MH	dB(A)	63
External static pressure	nom/min-max	Pa	-
Dehumidifying volume		I/h	-
Refrigerant type		Туре	R32
Pipe diameter - liquid side		inch / mm	<b>3</b> % / 9,5
Pipe diameter - gas side		inch / mm	% / <b>1</b> 5,9
Dimension of ID	w x h x d	mm	840×240×840
Dimension of panel	w x h x d		950×52×950
Package dimension of ID	w x h x d	mm	963×325×963
Package dimension of panel	w x h x d		1033×112×1038
Weight of ID	netto / brutto	kg	36/44
Weight of panel	netto / brutto		6,0/9,5
Set temperature range		°C	16 <b>~</b> 30

MODEL			ASF-12BI / ASGE-12BI	ASF-18BI / ASGE-18BI
Capacity cooling/heating	Nominal	kW	3,5 (0,34-3,65) / 4,0 (0,71-4,10)	5,0 (0,57-5,25) / 5,5 (1,18-5,69)
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240
Energy class cooling		-	A++	A++
Pdesign cooling		kW	3,5	5,0
SEER		-	6,7	6,1
Annual power consumption		kWh	177	284
Energy class heating	Average climate	-	A+	A+
Pdesign heating	Average climate	kW	3,1	4,0
SCOP	Average climate	-	4,0	4,0
Annual power consumption	Average climate	kWh	1040	1394
Air flow of ID	MH	$m^3/h$	650	850
Sound pressure of ID in 1m	MH/H/M/L	dB(A)	39/36/32/28	44/42/39/36
Sound power of ID	MH	dB(A)	51	57
External static pressure	nom/min-max	Pa	-	-
Dehumidifying volume		I/h	-	-
Refrigerant type		Туре	R32	R32
Pipe diameter - liquid side		inch / mm	¼ / 6,4	¼ / 6,4
Pipe diameter - gas side		inch / mm	<b>% / 9,5</b>	½ / 12,7
Dimension of ID	w x h x d	mm	870×665×235	870×665×235
Dimension of panel	w x h x d		-	-
Package dimension of ID	w x h x d	mm	1033×770×300	1033×770×300
Package dimension of panel	w x h x d		-	-
Weight of ID	netto / brutto	kg	25/30	26/31
Weight of panel	netto / brutto		-	-
Set temperature range		°C	16~30	16~30

MODEL			ASF-24BI / ASGE-24BI	ASF-30BI / ASGE-30BI
Capacity cooling/heating	Nominal	kW	7,0 (0,72-7,37) / 8,0 (1,80-8,28)	8,5 (1,03-8,92) / 8,8 (1,95-9,11)
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240
Energy class cooling		-	A++	A++
Pdesign cooling		kW	7,0	8,5
SEER		-	6,8	6,1
Annual power consumption		kWh	359	477
Energy class heating	Average climate	-	Α	A+
Pdesign heating	Average climate	kW	6,4	7,2
SCOP	Average climate	-	3,9	4,0
Annual power consumption	Average climate	kWh	2295	2577
Air flow of ID	MH	$m^3/h$	1300	1500
Sound pressure of ID in 1m	MH/H/M/L	dB(A)	45/44/41/38	49/47/45/43
Sound power of ID	MH	dB(A)	57	65
External static pressure	nom/min-max	Pa	-	-
Dehumidifying volume		I/h	-	-
Refrigerant type		Туре	R32	R32
Pipe diameter - liquid side		inch / mm	¾ / 9,5	3°s / 9,5
Pipe diameter - gas side		inch / mm	<b>% / 15,9</b>	<b>%</b> / 15,9
Dimension of ID	w x h x d	mm	1200×665×235	1200×665×235
Dimension of panel	w x h x d		-	-
Package dimension of ID	w x h x d	mm	1363×770×300	1363×770×300
Package dimension of panel	w x h x d		-	-
Weight of ID	netto / brutto	kg	31/37	31/37
Weight of panel	netto / brutto		-	-
Set temperature range		°C	16 <b>~</b> 30	16~30

MODEL			ASF-36BI / ASGE-36BI	ASF-36BI / ASGE-36BI-3
Capacity cooling/heating	Nominal	kW	10,0 (1,18-10,50) / 12,0 (2,50-12,42)	10,0 (1,18-10,50) / 12,0 (2,50-12,42)
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240
Energy class cooling		-	A++	A++
Pdesign cooling		kW	10,0	10,0
SEER		-	6,1	6,1
Annual power consumption		kWh	573	561
Energy class heating	Average climate	-	A+	A+
Pdesign heating	Average climate	kW	9,0	9,0
SCOP	Average climate	-	4,0	4,0
Annual power consumption	Average climate	kWh	3149	3146
Air flow of ID	MH	$m^3/h$	1600	1600
Sound pressure of ID in 1m	MH/H/M/L	dB(A)	49/47/45/43	49/47/45/43
Sound power of ID	MH	dB(A)	61	61
External static pressure	nom/min-max	Pa	-	-
Dehumidifying volume		I/h	-	-
Refrigerant type		Туре	R32	R32
Pipe diameter - liquid side		inch / mm	¾ / 9,5	¾ / 9,5
Pipe diameter - gas side		inch / mm	% / <b>15</b> ,9	<b>% / 15,9</b>
Dimension of ID	w x h x d	mm	1200×665×235	1200×665×235
Dimension of panel	w x h x d		1	-
Package dimension of ID	w x h x d	mm	1363×770×300	1363×770×300
Package dimension of panel	w x h x d		-	-
Weight of ID	netto / brutto	kg	32/38	32/38
Weight of panel	netto / brutto		-	-
Set temperature range		°C	16 <b>~</b> 30	16 <b>~</b> 30

MODEL			ASF-42BI / ASGE-42BI-3	ASF-48BI / ASGE-48BI-3
Capacity cooling/heating	Nominal	kW	12,1 (1,62-12,70) / 13,5 (3,02-13,97)	13,4 (1,64-14,06) / 15,5 (3,39-16,04)
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240
Energy class cooling		-	A++	A++
Pdesign cooling		kW	-	-
SEER		-	6,1	6,1
Annual power consumption		kWh	-	-
Energy class heating	Average climate	-	Α	A+
Pdesign heating	Average climate	kW	-	-
SCOP	Average climate	-	3,8	4,0
Annual power consumption	Average climate	kWh	-	-
Air flow of ID	MH	$m^3/h$	1800	2100
Sound pressure of ID in 1m	MH/H/M/L	dB(A)	49/47/44/42	52/50/48/44
Sound power of ID	MH	dB(A)	61	65
External static pressure	nom/min-max	Pa	-	-
Dehumidifying volume		I/h	-	-
Refrigerant type		Type	R32	R32
Pipe diameter - liquid side		inch / mm	<b>%</b> / 9,5	<b>%</b> / 9,5
Pipe diameter - gas side		inch / mm	% / <b>1</b> 5,9	<b>% / 15,9</b>
Dimension of ID	w x h x d	mm	1570×665×235	1570×665×235
Dimension of panel	w x h x d		-	-
Package dimension of ID	w x h x d	mm	1729×770×300	1729×770×300
Package dimension of panel	w x h x d		-	-
Weight of ID	netto / brutto	kg	40/47	42/49
Weight of panel	netto / brutto			
Set temperature range		°C	16~30	16~30

MODEL			ASF-60BI / ASGE-60BI-3
Capacity cooling/heating	Nominal	kW	16,0 (2,01-16,79) / 17,0 (3,68-17,59)
Power supply		Hz / V	1~ / 50 / 220-240
Energy class cooling		-	A++
Pdesign cooling		kW	-
SEER		-	6,1
Annual power consumption		kWh	-
Energy class heating	Average climate	-	A+
Pdesign heating	Average climate	kW	-
SCOP	Average climate	-	4,0
Annual power consumption	Average climate	kWh	-
Air flow of ID	MH	$m^3/h$	2300
Sound pressure of ID in 1m	MH/H/M/L	dB(A)	54/53/49/45
Sound power of ID	MH	dB(A)	67
External static pressure	nom/min-max	Pa	-
Dehumidifying volume		I/h	-
Refrigerant type		Type	R32
Pipe diameter - liquid side		inch / mm	<b>%</b> / 9,5
Pipe diameter - gas side		inch / mm	<b>% / 15,9</b>
Dimension of ID	w x h x d	mm	1570×665×235
Dimension of panel	w x h x d		-
Package dimension of ID	w x h x d	mm	1729×770×300
Package dimension of panel	w x h x d		-
Weight of ID	netto / brutto	kg	42/49
Weight of panel	netto / brutto		-
Set temperature range		°C	16 <b>~</b> 30

MODEL			ASD-12BI / ASGE-12BI	ASD-18BI / ASGE-18BI
Capacity cooling/heating	Nominal	kW	3,5 (0,35-3,67) / 4,0 (0,77-4,14)	5,0 (0,57-5,25) / 5,5 (1,07-5,69)
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240
Energy class cooling		-	A++	A++
Pdesign cooling		kW	3,5	5,0
SEER		-	6,1	6,1
Annual power consumption		kWh	200	277
Energy class heating	Average climate	-	A+	A+
Pdesign heating	Average climate	kW	3,1	4,2
SCOP	Average climate	-	4,0	4,0
Annual power consumption	Average climate	kWh	1110	1469
Air flow of ID	MH	$m^3/h$	650	950
Sound pressure of ID in 1,4m	MH/H/M/L	dB(A)	41/38/36/34	43/42/39/36
Sound power of ID	MH	dB(A)	59	58
External static pressure	nom/min-max	Pa	25 (0-50)	25 (0-50)
Dehumidifying volume		I/h	-	-
Refrigerant type		Туре	R32	R32
Pipe diameter - liquid side		inch / mm	¼ / 6,4	¼ / 6,4
Pipe diameter - gas side		inch / mm	<b>%</b> / 9,5	½ / 12,7
Dimension of ID	w x h x d	mm	700×200×450	1000×200×450
Dimension of panel	w x h x d		-	-
Package dimension of ID	w x h x d	mm	1008×275×568	1308×275×568
Package dimension of panel	w x h x d		-	-
Weight of ID	netto / brutto	kg	20/24	26/31
Weight of panel	netto / brutto		-	-
Set temperature range		°C	16 <b>~</b> 30	16~30

MODEL			ASD-24BI / ASGE-24BI	ASD-30BI / ASGE-30BI
Capacity cooling/heating	Nominal	kW	7,0 (0,76-7,56) / 8,0 (1,66-8,28)	8,5 (0,99-8,92) / 8,8 (1,95-9,11)
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240
Energy class cooling		-	A++	A++
Pdesign cooling		kW	7,0	8,5
SEER		-	6,8	6,1
Annual power consumption		kWh	357	480
Energy class heating	Average climate	-	A+	A+
Pdesign heating	Average climate	kW	6,4	7,2
SCOP	Average climate	-	4,0	4,0
Annual power consumption	Average climate	kWh	2238	2576
Air flow of ID	MH	$m^3/h$	1200	1500
Sound pressure of ID in 1,4m	MH/H/M/L	dB(A)	40/39/37/36	42/40/37/35
Sound power of ID	MH	dB(A)	62	65
External static pressure	nom/min-max	Pa	25 (0-75)	37 (0-75)
Dehumidifying volume		I/h	-	-
Refrigerant type		Туре	R32	R32
Pipe diameter - liquid side		inch / mm	<b>%</b> / 9,5	<b>%</b> / 9,5
Pipe diameter - gas side		inch / mm	% / 15 <i>,</i> 9	% / 15,9
Dimension of ID	w x h x d	mm	1300×220×450	1300×220×450
Dimension of panel	w x h x d		-	-
Package dimension of ID	w x h x d	mm	1570×283×545	1570×283×545
Package dimension of panel	w x h x d		-	-
Weight of ID	netto / brutto	kg	31/36	31/36
Weight of panel	netto / brutto		-	-
Set temperature range		°C	16~30	16~30

MODEL			ASD-36BI / ASGE-36BI	ASD-36BI / ASGE-36BI-3
Capacity cooling/heating	Nominal	kW	10,0 (1,16-10,6) / 12,0 (2,50-12,42)	10,0 (1,16-10,6) / 12,0 (2,50-12,42)
Power supply		Hz / V	1~/50/220-240 1~/50/220-2	
Energy class cooling		-	A++	A++
Pdesign cooling		kW	10,0	10,0
SEER		-	6,1	6,1
Annual power consumption		kWh	571	577
Energy class heating	Average climate	-	A+	A+
Pdesign heating	Average climate	kW	9,0	9,0
SCOP	Average climate	-	4,0	4,0
Annual power consumption	Average climate	kWh	3147	3218
Air flow of ID	MH	$m^3/h$	1800	1800
Sound pressure of ID in 1,4m	MH/H/M/L	dB(A)	46/44/42/40	46/44/42/40
Sound power of ID	MH	dB(A)	65	65
External static pressure	nom/min-max	Pa	37 (0-100)	37 (0-100)
Dehumidifying volume		I/h	-	-
Refrigerant type		Type	R32	R32
Pipe diameter - liquid side		inch / mm	<b>%</b> / 9,5	¾ / 9,5
Pipe diameter - gas side		inch / mm	<b>% / 15,9</b>	% / 15 <i>,</i> 9
Dimension of ID	w x h x d	mm	1000×300×700	1000×300×700
Dimension of panel	w x h x d		-	-
Package dimension of ID	w x h x d	mm	1205×360×813	1205×360×813
Package dimension of panel	w x h x d		-	-
Weight of ID	netto / brutto	kg	41/47	41/47
Weight of panel	netto / brutto		-	-
Set temperature range		°C	16~30	16~30

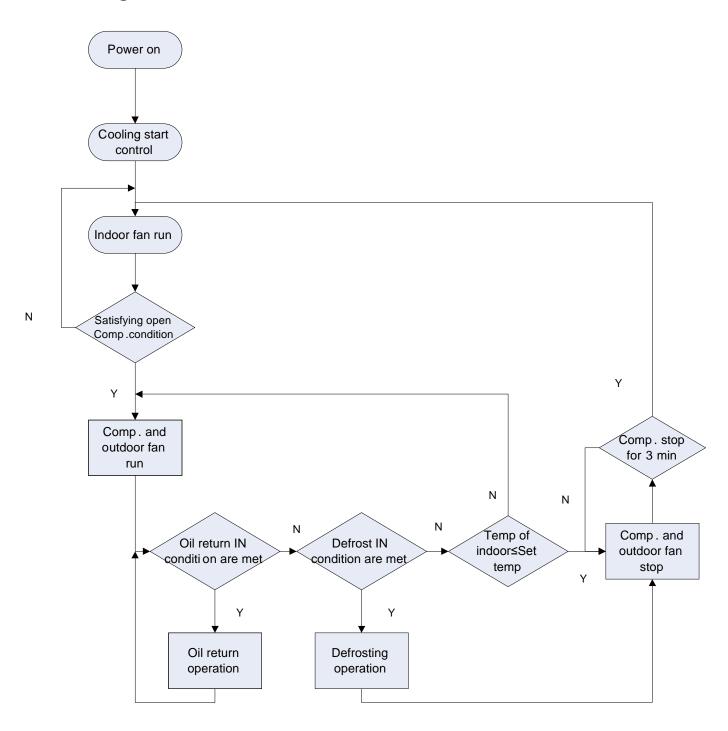
MODEL			ASD-42BI / ASGE-42BI-3	ASD-48BI / ASGE-48BI-3
Capacity cooling/heating	Nominal	kW	12,1 (1,62-12,70) / 13,5 (3,02-13,97)	13,4 (1,64-14,06) / 15,5 (3,39-16,04)
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240
Energy class cooling		-	A+	A+
Pdesign cooling		kW	-	-
SEER		-	5,8	5,4
Annual power consumption		kWh	ı	-
Energy class heating	Average climate	-	А	А
Pdesign heating	Average climate	kW	-	-
SCOP	Average climate	-	3,8	3,7
Annual power consumption	Average climate	kWh	-	-
Air flow of ID	MH	$m^3/h$	2000	2200
Sound pressure of ID in 1,4m	MH/H/M/L	dB(A)	42/40/39/37	43/41/40/38
Sound power of ID	MH	dB(A)	66	65
External static pressure	nom/min-max	Pa	50 (0-150)	50 (0-150)
Dehumidifying volume		I/h	-	-
Refrigerant type		Туре	R32	R32
Pipe diameter - liquid side		inch / mm	<b>%</b> / 9,5	<b>%</b> / 9,5
Pipe diameter - gas side		inch / mm	% / <b>1</b> 5,9	% / 15,9
Dimension of ID	w x h x d	mm	1400×300×700	1400×300×700
Dimension of panel	w x h x d		-	-
Package dimension of ID	w x h x d	mm	1601×365×813	1601×365×813
Package dimension of panel	w x h x d		1	-
Weight of ID	netto / brutto	kg	50/56	50/56
Weight of panel	netto / brutto		-	-
Set temperature range		°C	16 <b>~</b> 30	16~30

MODEL			ASD-60BI / ASGE-60BI-3
Capacity cooling/heating	Nominal	kW	16,0 (2,01-16,79) / 17,0 (3,68-17,59)
Power supply		Hz / V	1~ / 50 / 220-240
Energy class cooling		-	A++
Pdesign cooling		kW	-
SEER		-	6,1
Annual power consumption		kWh	-
Energy class heating	Average climate	-	A+
Pdesign heating	Average climate	kW	-
SCOP	Average climate	-	4,0
Annual power consumption	Average climate	kWh	-
Air flow of ID	MH	$m^3/h$	2400
Sound pressure of ID in 1,4m	MH/H/M/L	dB(A)	44/41/39/38
Sound power of ID	MH	dB(A)	66
External static pressure	nom/min-max	Pa	50 (0-200)
Dehumidifying volume		I/h	-
Refrigerant type		Туре	R32
Pipe diameter - liquid side		inch / mm	<b>%</b> / 9,5
Pipe diameter - gas side		inch / mm	<b>% / 15,9</b>
Dimension of ID	w x h x d	mm	1400×300×700
Dimension of panel	w x h x d		-
Package dimension of ID	w x h x d	mm	1678×365×808
Package dimension of panel	w x h x d		-
Weight of ID	netto / brutto	kg	57/64
Weight of panel	netto / brutto		-
Set temperature range		°C	16 <b>~</b> 30

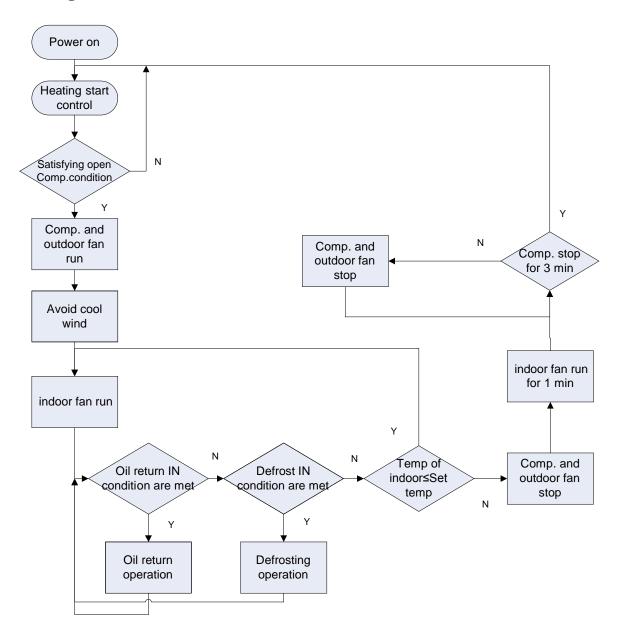
## 2. Control

## 2.1 Operation Mode

## 2.1.1 Cooling Mode



## 2.1.2 Heating Mode



### 2.2 Control Mode

#### 2.2.1 Based Control

#### 2.2.1.1 Compressor Control

When cooling or heating mode is turned on, indoor fan will run for a while before the compressor starts. Under different modes, the compressor can only be stopped after running for some time (special cases excluded). This is to protect the compressor from frequent start or stop. Once the compressor is stopped, it must not be restarted right away. Please wait for a few minutes.

#### 2.2.1.2 EXV Control

When the unit is first started, the electronic expansion valve will reset control. During the process, the expansion valve will produce rattling sound. When cooling or heating mode is turned on, the valve will be open at a certain step before the compressor starts.

#### 2.2.1.3 Outdoor Fan Control

This series air conditioner has two types of outdoor units: one with a single fan and the other with double fans. The outdoor fan can run at the highest level 10 and the lowest level 1. By controlling the speed of outdoor fan, the unit can achieve cooling at low temperature and heating at high temperature. In fan mode, outdoor fan will not work.

#### 2.2.1.4 .4-way Valve Control

After heating mode is turned on for a while, 4-way valve will be energized to change the direction of refrigerant flow so that the system can run in heating and the indoor unit will not blow cold air. Under other modes, the valve will not be energized.

To avoid the 4-way valve from incorrectly changing directions, when the unit stops in heating, due to a temperature point or other protection reasons, the 4-way valve will continue to function temporarily and lose power after a while.

There must be adequate differential pressure for the 4-way valve to change directions.

### 2.2.2 Special Control

#### 2.2.2.1 Defrosting Control

ODU defrosting control in heating: Defrosting will start when the temperature sensed by outdoor tube temperature sensor reaches a preset value. During defrosting, the 4-way valve will switch to the cooling condition, and outdoor and indoor fans will both stop. When the temperature sensed by outdoor tube temperature sensor reaches the preset value of defrosting stop, system will quit defrosting. The 4-way valve will switch back to the heating condition, outdoor fan will start working first and indoor fan will resume its previous fan speed after performing cold air prevention.

#### 2.2.2.2 Oil Return Control

If the unit is running at low frequency for a long time, system will enable oil return control. This is to lead oil in the pipeline back to the compressor so that the compressor will not be lack of oil. Generally, the oil return takes about 5min. The compressor running frequency will be raised to the preset oil return frequency.

#### 2.2.2.3 Refrigerant Recovery Control

Enabling method: Remote control and wired control both use the same enabling method. That is, within 5min after power is connected, start cooling mode (turn on the unit) and set temperature at 16  $^{\circ}$ C, then press " $\blacktriangle$ ,  $\blacktriangledown$ ,  $\blacktriangle$ ,  $\blacktriangledown$ ,  $\blacktriangle$ ,  $\blacktriangledown$ " (6 times of pressing) in 5s to enter the refrigerant recovery mode. If it is successfully enabled, the indoor unit will display the corresponding code E3.

After the refrigerant recovery mode is enabled, if remote control or wired control sends a signal or the refrigerant recovery mode has been enabled for 10min, system will exit from refrigerant recovery. If outdoor unit is shut down because of malfunction, refrigerant recovery will be stopped immediately.

Please note that refrigerant recovery mode cannot be enabled under the following conditions:

- 1. If temperature is shielded remotely, refrigerant recovery mode cannot be enabled. You need to first unlock the remote shield against temperature.
- 2. If temperature is higher than 16 degrees under energy-saving mode, refrigerant recovery mode cannot be enabled. You need to first turn off the energy-saving mode.

#### 2.2.2.4 Forced Operation Control

This control is used to quickly check whether the unit can operate normally after installation. Wired control has to be used to enable this control. For cassette type unit, you can enable the control through the light board.

Enabling method through the light board of cassette type unit: After the unit is installed and connected to power, press TEST button on the light board to enter forced operation mode. Short-press TEST button (less than 2s), cooling mode will be activated. Long-press TEST button (more than 2s), heating mode will be activated.

Enabling method through wired control:

Under power-on status,

Forced cooling: press the "▼" button continuously for 5s to enter the forced test mode;

Forced heating: press the "\( \Lambda \)" button continuously for 5s to enter the forced test mode.

During test mode, press any button to quit the test mode.

Note: Forced test mode can only be enabled when the unit is first turned on and not yet receives any remote control signal or button control signal.

#### 2.2.3 Protection Control

#### 2.2.3.1 High Pressure Protection Control

System will enable high pressure protection control if the high pressure switch is detected open for continuously a little time. Under high pressure protection, system will be shut down and display error code E1.

When high pressure protection occurs for the first time, system will restore operation if the high pressure switch is detected to be reclosed for continuously a little time. When high pressure protection occurs for the second time in a certain time period, system will not restore operation. You need to manually turn off the unit and clear the error before restarting up the unit. (If high pressure protection occurs frequently, please send for professional personnel to repair.)

#### 2.2.3.2 Low Pressure Protection Control

System will enable low pressure protection control if the low pressure switch is detected open for continuously a little time. Under low pressure protection, system will be shut down and display error code E3. When low pressure protection occurs, system will restore operation if the low pressure switch is detected to be reclosed within a few minutes after shutdown. If low pressure protection occurs for several times in a period of time, system will not restore operation automatically. You need to manually turn off the unit before restarting up the unit.

#### 2.2.3.3 High Temperature Prevention Control

Under heating mode, system will enable high temperature prevention control if the temperature sensed by indoor tube temperature sensor reaches a certain value. When high temperature prevention control is enabled, outdoor fan will slow down.

#### 2.3 Functions

## 2.3.1 Setting of Filter Cleaning Reminder

When setting washing remind function, the timer area will display 2 – bit number that means the pollution level, then press "▲" and "▼" buttons to select, and press "SWING/ENTER" button to confirm the setting. Conversion relation between the displayed pollution level and accumulative operating time are as the following list. After setting, when it reaches the washing time, "CLEAN" icon will flash and remind, if you press "▲" and "▼" buttons to adjust the level, and press "SWING/ENTER" button, then the accumulative time for filter washing remind will not be reset; if the time after adjustment is larger than the current

accumulative time, then "CLEAN" icon will stop flashing; if the time after adjustment is less than the current accumulative time, then "CLEAN" icon will continue to flash.

The only method for cancelling the remind function is to press "FUNCTION" button to switch to "CLEAN" icon, and set the timer area to be "00", and then press "SWING/ENTER" button, then the accumulative time of filter washing remind is reset.

Pollution Level	Accumulated Operating Time (hour)	Pollution Level	Accumulated Operating Time (hour)	Pollution Level	Accumulated Operating Time (hour)
10	5500	20	1400	30	100
11	6000	21	1800	31	200
12	6500	22	2200	32	300
13	7000	23	2600	33	400
14	7500	24	3000	34	500
15	8000	25	3400	35	600
16	8500	26	3800	36	700
17	9000	27	4200	37	800
18	9500	28	4600	38	900
19	10000	29	5000	39	1000

### 2.3.2 Low-temperature Drying Function

Under dry mode, when the setting temperature is 16° C, press "▼" button for twice, the setting temperature becomes 12° C, then the unit enters into low-temperature dry function.

When low-temperature dry function is turned on, directly press "▲" button or switch the mode can quit the function.

#### 2.3.3 Child-lock Function

Without error, under ON or OFF status of unit, press " $\blacktriangle$ " and " $\blacktriangledown$ " buttons simultaneously for 5 seconds can enter into child-lock function, the liquid crystal screen will display " $\blacksquare$ "; press " $\blacktriangle$ " and " $\blacktriangledown$ " buttons simultaneously again for 5 seconds can quit the child-lock function.

Under child-lock status, no response for pressing any buttons. The unit will memorize the child-lock status after power failure and re-energizing the unit.

### 2.3.4 Memory Function

Under power-off status, press "MODE" and "▲" button simultaneously for 5 seconds can turn on or turn off memory function. When memory function is set, "MEMORY" displays.

If memory function has not been set, when the unit is re-energized after power failure, the unit is power-off status. If the memory function is set in wired controller, when the wired controller is re-energized after power failure, it will resume to the operating status before power failure.

#### 2.3.5 Door Control Function

When door control function is selected, the wired control will work when the room card is inserted and stop working when the room card is pulled out. When door control function senses the room card is not inserted.

The setting method please refer to Debugging Function (2.3.9).

#### Note:

- ① . In long-distance monitoring or centralized control, no matter the room card is inserted or not, the ON/OFF of unit can be controlled. If long-distance monitoring or centralized control information is received when the room card is not inserted, the icon 🏜 is cleared. When the card is reinserted, door control function is judged to be turned on. If long-distance monitoring or centralized control information is received when the room card is inserted, it will keep the original status.
- ② The unit can not be controlled by buttons when the card is not inserted.

### 2.3.6 Switch between Fahrenheit and Degree Celsius

Under power-off status, press "MODE" and "▼" buttons simultaneously for 5 seconds, display board will switch between degree Celsius and Fahrenheit.

### 2.3.7 Inquiry of Ambient Temperature

Under power-off or power-on status, press and hold "SWING/ENTER" button for 5 seconds to enter into ambient temperature inquiry interface, then timer area displays the ambient temperature type 01 or 02, and ambient temperature area displays the corresponding ambient temperature of corresponding type. In which, 01 refers to outdoor ambient temperature, 02 refers to indoor ambient temperature. Press "MODE" button can switch between type 01 and 02. Press buttons other than "MODE" or when the unit receives remote control signal, it will quit the inquiry status. If there is no any operation for 20 seconds, it will quit automatically.

#### Note:

When the outdoor ambient temperature sensor detects the same temperature for 12 hours, it will shield the display of outdoor ambient temperature sensor.

## 2.3.8 Inquiry of Historical Malfunction

Under off or on state of the unit, continuously press Function and ▼ buttons for 5s to view historical malfunction.

In enquiry state, set temperature displaying zone displays "00". Press  $\blacktriangle$  and  $\blacktriangledown$  buttons to view the 5 malfunctions happened recently. The timer displaying position displays the specific error code. The 5th displayed malfunction is the last malfunction.

## 2.3.9 Debugging Function

Under off state of the unit, press Function and Timer buttons at the same time for 5s to go to the debugging menu. Press Mode button to adjust the setting items and press ▲ or ▼ button to set the actual value.

#### 2.3.9.1 Setting ambient temperature sensor (dual ambient temperature sensors function)

Under debugging state, press Mode button to adjust to "00" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 3 selections:

- (1) The ambient temperature at air return is set as indoor ambient temperature (timer zone displays 01)
- (2) The temperature at wired controller is set as indoor ambient temperature (timer zone displays 02)
- (3) Select the temperature sensor at air return in cooling, dry and fan mode; select the temperature sensor at wired controller in heating and auto mode.

#### 2.3.9.2 Displaying setting of freeze protection error code

Under debugging state, press Mode button to adjust to "02" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

- (1) Displayed (LCD displays 01)
- (2) Not displayed (LCD displays 02)

It is defaulted to be not displayed for export unit and be displayed for domestic unit.

#### 2.3.9.3 Setting refrigerant lacking protection function

Under debugging state, press Mode button to adjust to "04" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

- (1) With refrigerant lacking protection function (LCD displays 01)
- (2) Without refrigerant lacking protection function (LCD displays 02)

#### 2.3.9.4 Selecting blowing residual heating of indoor unit

Under debugging state, press Mode button to adjust to "05" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

- (1) Mode 1 (LCD displays 00)
- (2) Mode 2 (LCD displays 01)

Note: Blowing residual heating of indoor unit

Mode 1: Unit stops when reaching temperature point and indoor fan motor does not stop in cooling mode; after unit stops when reaching temperature point in heating mode, duct type unit and floor ceiling unit blow residual heat for 60s and then stop indoor unit, while cassette type unit always operates in low fan speed and blows residual heat for 60s when there is malfunction.

Mode 2: After unit stops when reaching temperature point, the indoor fan motor stops operation with a 10s-delay no matter in cooling mode or in heating mode.

#### 2.3.9.5 Mode selecting of compressor electric heating belt

Under debugging state, press Mode button to adjust to "06" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

- (1) Mode 1 (LCD displays 00)
- (2) Mode 2 (LCD displays 01)

Note:

Mode 1: Compressor electric heating belt starts when outdoor ambient temperature is below  $35^{\circ}$ C and stops when outdoor ambient temperature is above  $37^{\circ}$ C. When outdoor ambient temperature is within  $35^{\circ}$ C~  $37^{\circ}$ C, the belt will keep its previous operation state.

Mode 2: Compressor electric heating belt starts when outdoor ambient temperature is below  $-2^{\circ}$ C and stops when outdoor ambient temperature is above  $0^{\circ}$ C. When outdoor ambient temperature is within  $-2^{\circ}$ C $-0^{\circ}$ C, the belt will keep its previous operation state.

#### 2.3.9.6 Selecting low-power consumption mode

Under debugging state, press Mode button to adjust to "07" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

- (1) With low-power consumption mode (LCD displays 00)
- (2) Without low-power consumption mode (LCD displays 01)

#### 2.3.9.7 Selecting door control function

Under debugging state, press Mode button to adjust to "08" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

- (1) Without door control function (LCD displays 00)
- (2) With door control function (LCD displays 01)

#### 2.3.9.8 Selecting long-distance monitoring or centralized controller

Under debugging state, press Mode button to adjust to "10" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

- (1) Centralized controller (LCD displays 00)
- (2) Long-distance monitoring (LCD displays 01)

#### 2.3.9.9 Selecting fan mode of indoor fan motor

Under debugging state, press Mode button to adjust to "11" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust.

a.There are 5 selections for low static pressure duct (ASD-12BI, ASD-18BI, ASD-24BI, ASD-30BI):

- (1) P3 (LCD displays 03)
- (2) P4 (LCD displays 04)
- (3) P5 (LCD displays 05)
- (4) P6 (LCD displays 06)
- (5) P7 (LCD displays 07)

Note: You can select P03, P04, P05, P06, P07 in fan mode of indoor fan motor, which means different fan mode combinations are corresponding to different static pressure. Ex-factory defaulted mode is P05. You can set the mode through wired controller. S01, S02, S03······S12, S13 means the rotation speed of indoor unit is from low to high.

Combination relationship of P03, P04, P05, P06, P07

Static pressure selection	Super high speed	High speed	Medium high speed	Medium speed	Medium low speed	Low speed	Quiet R1 speed	Quiet R2 speed	Quiet R3 speed
P03	S09	S08	S07	S06	S05	S04	S03	S02	S01
P04	S10	S09	S08	S07	S06	S05	S04	S03	S02
P05	S11	S10	S09	S08	S07	S06	S05	S04	S03
P06	S12	S11	S10	S09	S08	S07	S06	S05	S04
P07	S13	S12	S11	S10	S09	S08	S07	S06	S05

b.There are 9 selections for high static pressure duct (ASD-36BI, ASD-42BI, ASD-48BI, ASD-60BI):

- (1) P1 (LCD displays 01)
- (2) P2 (LCD displays 02)
- (3) P3 (LCD displays 03)
- (4) P4 (LCD displays 04)
- (5) P5 (LCD displays 05)
- (6) P6 (LCD displays 06)
- (7) P7 (LCD displays 07)
- (8) P8 (LCD displays 08)
- (9) P9 (LCD displays 09)

Note: You can select P01, P02, P03, P04, P05, P06, P07, P08, P09 in fan mode of indoor fan motor, which means different fan mode combinations are corresponding to different static pressure. Ex-factory defaulted mode is P05. You can set the mode through wired controller. S01, S02, S03.....S12, S13 means the rotation speed of indoor unit is from low to high.

Combination relationship of P01, P02, P03, P04, P05, P06, P07, P08, P09

Static pressure selection	Super high speed	High speed	Medium high speed	Medium speed	Medium low speed	Low speed	Quiet R1 speed	Quiet R2 speed	Quiet R3 speed
P1	S05	S03	S02	S02	S01	S01	S01	S01	S01
P2	S06	S04	S03	S03	S02	S02	S02	S02	S02
P3	S07	S05	S04	S04	S03	S03	S03	S03	S03
P4	S08	S06	S05	S05	S04	S04	S04	S04	S04
P5	S09	S07	S06	S06	S05	S05	S05	S05	S05
P6	S10	S08	S07	S07	S06	S06	S06	S06	S06
P7	S11	S09	S08	S08	S07	S07	S07	S07	S07
P8	S12	S10	S09	S09	S08	S08	S08	S08	S08
P9	S13	S11	S10	S10	S09	S09	S09	S09	S09

#### 2.3.9.10 Selecting compensation of temperature sensor at air return

Under debugging state, press Mode button to adjust to "12" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 16 selections:

- (1) Compensate 0°C (LCD displays 00)
- (2) Compensate 1°C (LCD displays 01)
- (3) Compensate 2°C (LCD displays 02)
- (4) Compensate 3°C (LCD displays 03)
- (5) Compensate 4°C (LCD displays 04)
- (6) Compensate 5°C (LCD displays 05)
- (7) Compensate 6°C (LCD displays 06)
- (8) Compensate 7°C (LCD displays 07)
- (9) Compensate  $8^{\circ}$ C (LCD displays 08)
- (10) Compensate  $9^{\circ}$ C (LCD displays 09)
- (11) Compensate 10°C (LCD displays 10)
- (13) Compensate 12°C (LCD displays 12)(14) Compensate 13°C (LCD displays 13)
- (15) Compensate 14°C (LCD displays 14)
- (16) Compensate 15°C (LCD displays 15)

Note: Indoor ambient temperature compensation can be set through the wired control (E.g.: If 02 is selected, it indicates the compensation temperature is  $2^{\circ}$ C. If the indoor ambient temperature detected by the temperature sensor at air return is  $29^{\circ}$ C, the ambient temperature after compensation is  $29^{\circ}$ C- $2^{\circ}$ C= $27^{\circ}$ C).

After finishing setting, press Enter/Cancel button to save and exit setting. After entering this interface, the system will exit this menu if there is no operation on the button within 20s. Normal off state interface will be displayed and present setting will not be saved.

#### 2.3.9.11 Auto mode selection

Under debugging state, press Mode button to adjust to "16" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

- (1) Auto mode 1, the set temperature under auto mode can't be adjusted (LCD displays 01)
- (2) Auto mode 2, the set temperature can be adjusted under auto mode (LCD displays 02)

#### 2.3.9.12 Defrost mode selection

Under debugging state, press Mode button to adjust to "17" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

- (1) Defrost mode 1 (LCD displays 01)
- (2) Defrost mode 2 (LCD displays 02)

#### 2.3.9.13 Heat pump unit and cooling only unit selection

Under debugging state, press Mode button to adjust to "18" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

- (1) Heat pump type unit (LCD displays 00)
- (2) Cooling only unit (LCD displays 01)

After finishing setting, press Swing/Enter button to save and exit setting. After entering this interface, the system will exit this menu if there is no operation on the button within 20s. Normal off state interface will be displayed and present setting will not be saved.

#### 2.3.10 Connect to Interface of Centralized Control

The indoor unit is with the interface of centralized controller. When centralized controller is connected, centralized control of unit can be realized when the wired controller is not connected;

- (1) Interface instruction:
- 1) The printing of interface on the indoor unit PCB is COM\_BMS, before connecting the centralized controller,a gateway model SMG-01 is required, The following figure shows an example;
- 2) Electrical characteristic: none;
- 3) Working principle: centralized control the communication of indoor mainboard and realize the unit control;

(more info in SINCLAIR First Operation Manual for Central Controllers)

(2) Function instructions:

In order to achieve this function, set the address mode and address through wired controller. Please refer to Point 3 for the setting method. The address mode is defaulted to be connecting to centralized controller mode and the defaulted address is 1;

When the centralized controller is connected, centralized control of the unit can be realized to control unit ON/OFF, operation mode, set fan speed/temperature and weekly timer.

- (3) Setting method:
- 1) Centralized control for up to 16 indoor units.

Firstly, set the address mode of wired controller into centralized controller address mode. The setting method is:

Under off state of the unit, press Function and Timer buttons at the same time for 5s to go to the debugging menu. Press Mode button to adjust to "10" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

- a. Centralized controller address mode (LCD displays 00)
- b. Long-distance control address mode (LCD displays 01)

Choose the first selection and then press Enter/Cancel button to save and exit setting. Now, the address of wired controller is set to match the address of centralized controller. The unit will memorize this setting status. The setting value will be memorized after power failure.

Address setting of each unit: when the address mode is set to be centralized controller address mode. The address setting value range is 01~16. The setting method is:

Under off state of the unit, press Function and Mode buttons at the same time for 5s to enter setting interface of wired controller address. LCD displays address sequence. Press ▲ or ▼ button to adjust the address sequence and then press Enter/Cancel button to confirm. The setting value will be memorized after power failure.

When the address is set, the wired controller can be removed and connect the centralized controller to the indoor mainboard. Then connect the required units to realize centralized control of these units;

#### Note:

- ① When centralized controller is to be connected, set the address mode into centralized controller address mode through wired controller. Long-distance control address mode can not be set;
- The unit addresses in the same network must be different, otherwise, communication malfunction will occur and the unit can not work normally;
- When centralized controller is to be connected, the unit address range is 1-16. Only 16 sets of unit in maximum can be connected
- (4) The code and model of wired controller is as below:

Name	Product code	Remark
Centralized controller SCC-16	MC207025	Only 16 sets of unit in maximum can be connected to this controller

#### 2) Centralized control for up to 36 indoor units.

Firstly, set the address mode of wired controller into Long-distance control address mode. The setting method is:

Under off state of the unit, press Function and Timer buttons at the same time for 5s to go to the debugging menu. Press Mode button to adjust to "10" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

- a. Centralized controller address mode (LCD displays 00)
- b. Long-distance control address mode (LCD displays 01)

Choose the second selection and then press Swing/Enter button to save and exit setting. Now, the address of wired controller is set to match the address of centralized controller. The unit will memorize this setting status. The setting value will be memorized after power failure.

Address setting of each unit: when the address mode is set to be Long-distance control address mode. The address setting value range is 01~36. The setting method is:

Under off state of the unit, press Function and Mode buttons at the same time for 5s to enter setting interface of wired controller address. LCD displays address sequence. Press ▲ or ▼ button to adjust the address sequence and then press Swing/Enter button to confirm. The setting value will be memorized after power failure.

When the address is set, the wired controller can be removed and connect the centralized controller to the indoor mainboard. Then connect the required units to realize centralized control of these units;

Note:

- ① The unit addresses in the same network must be different, otherwise, communication malfunction will occur and the unit can not work normally;
- When centralized controller is to be connected, the unit address range is 1-36. Only 36 sets of unit in maximum can be connected
- 3 The code and model of wired controller is as below:

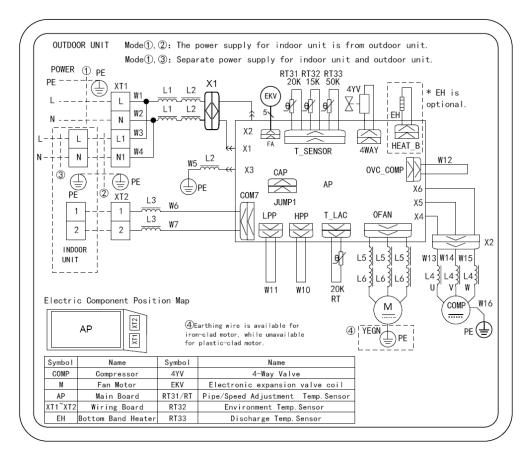
Name	Product code	Remark
Centralized controller SCC-36	MC207052	Only 36 sets of unit in maximum can be connected to this controller

# 3. Troubleshooting

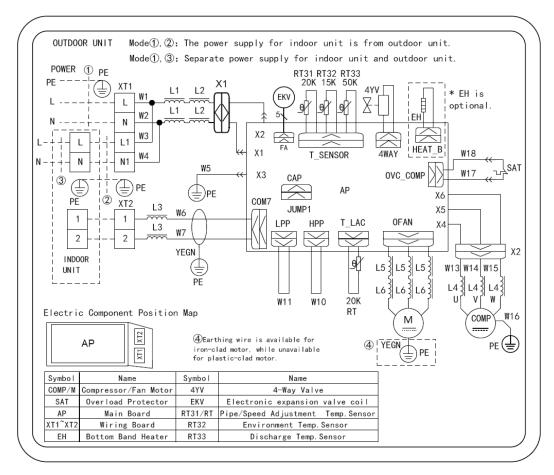
# 3.1 Wiring Diagrams

# 3.1.1 Wiring Diagrams of ODUs

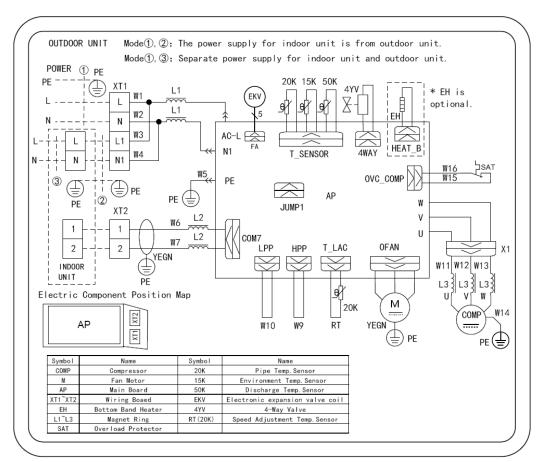
Model: ASGE-12BI



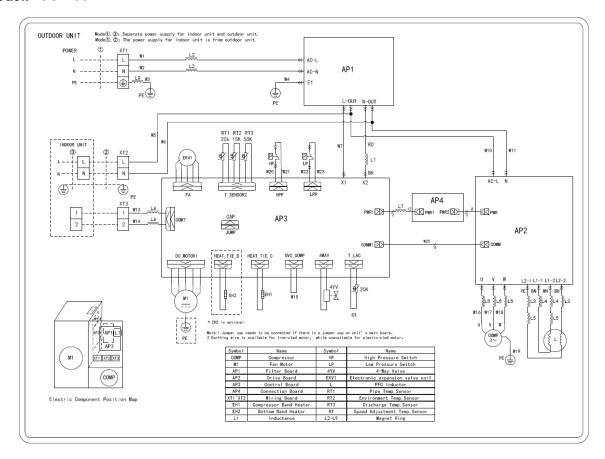
#### Model: ASGE-18BI



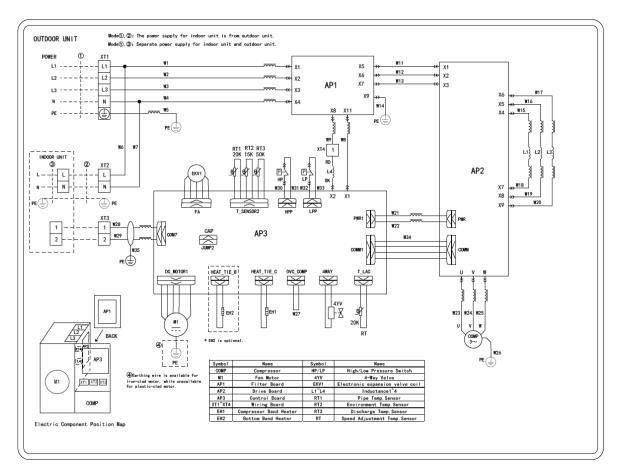
## Model: ASGE-24BI, ASGE-30BI



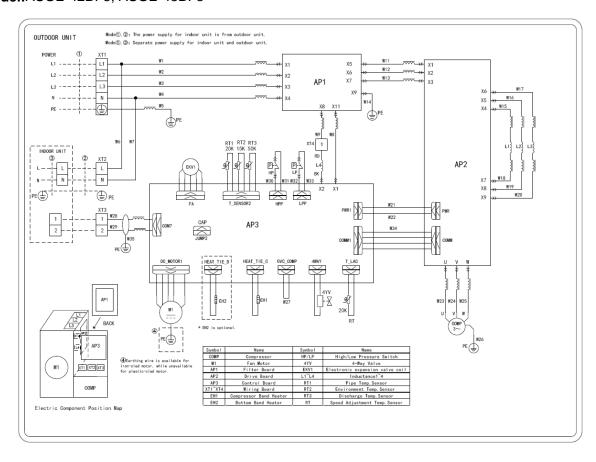
## Model: ASGE-36BI



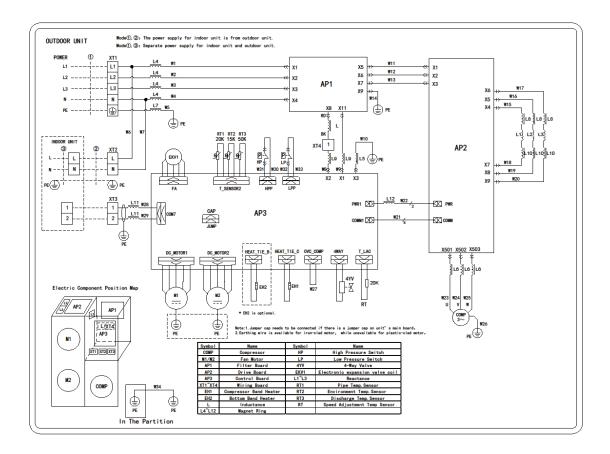
## Model: ASGE-36BI-3



## Model: ASGE-42BI-3, ASGE-48BI-3

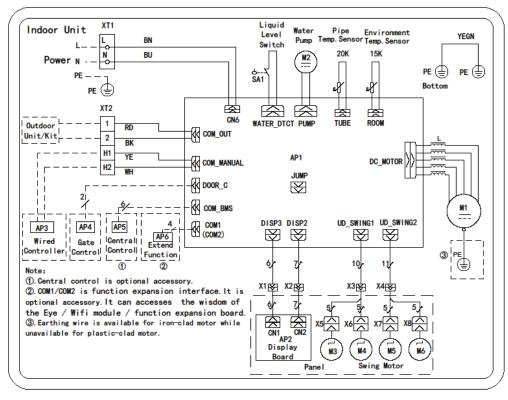


#### Model: ASGE-60BI-3

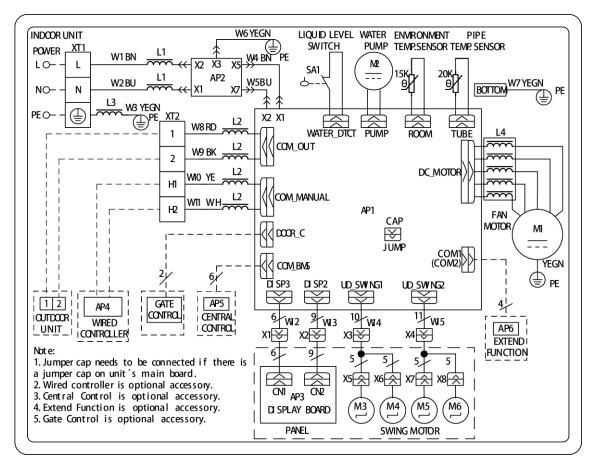


# 3.1.2 Wiring Diagrams of IDUs

Model: ASC-12BI, ASC-18BI

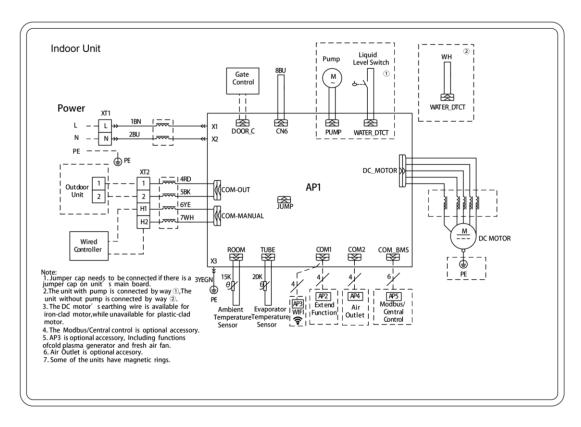


Model: ASC-24BI, ASC-30BI, ASC-36BI, ASC-42BI, ASC-48BI, ASC-60BI

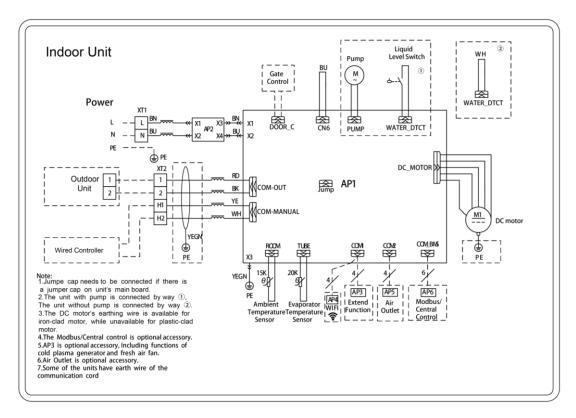


## **Duct Type**

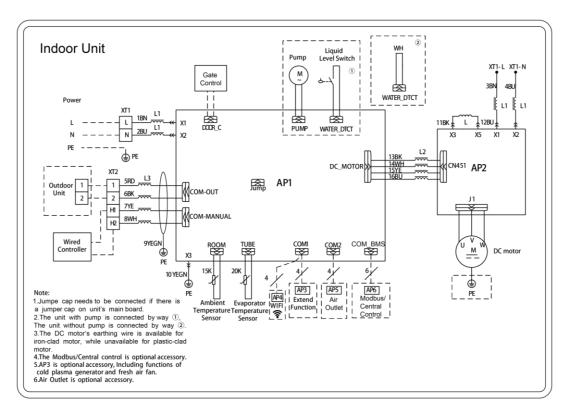
Model: ASD-12BI, ASD-18BI, ASD-24BI, ASD-30BI



### Model: ASD-36BI, ASD-42BI, ASD-48BI

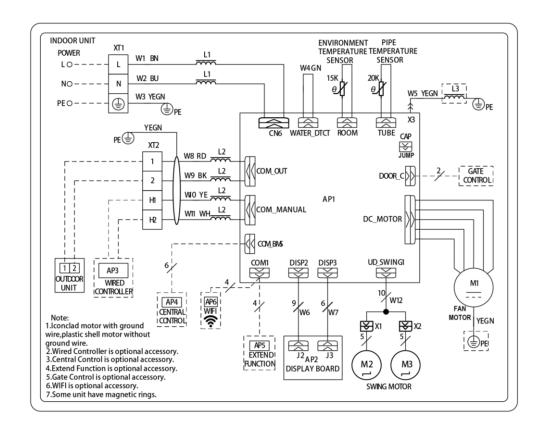


### Model: ASD-60BI



## **Floor Ceiling Type**

Model: ASF-12BI, ASF-18BI, ASF-24BI, ASF-30BI, ASF-36BI, ASF-42BI, ASF-48BI, ASF-60BI



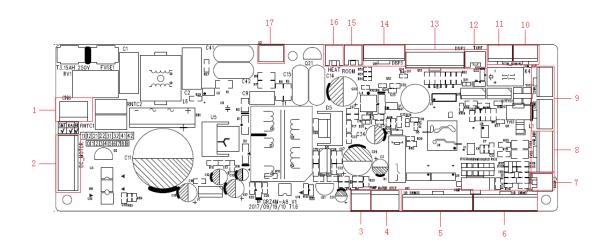
# 3.2 PCB Layout

## 3.2.1 Interface

#### **Indoor unit:**

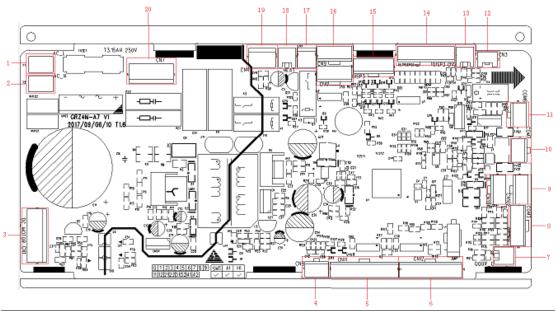
Model: ASC-12BI, ASC-18BI,

ASF-12BI, ASF-18BI, ASF-24BI, ASF-30BI, ASF-36BI, ASF-42BI, ASF-48BI, ASF-60BI;



No.	Printing	Interface	No.	Printing	Interface
1	CN6	Power supply	2	DC_MOTOR	DC motor output
3	PUMP	DC water pump	4	WATER_DTCT	Water level switch
5	UD_SWING2	Vertical swing output 2	6	UD_SWING1	Vertical swing output 1
7	DOOR_C	Access control interface	8	COM_BMS	MODBUS gateway interface
9	COM1,COM2	Accessories communication interface	10	COM_OUT	ODU communication interface
11	COM_MANAUL	Wired control communication interface	12	TUBE	Evaporator temperature sensor
13	DISP2	Light board interface 2	14	DISP3	Light board interface 3
15	ROOM	Ambient temperature sensor interface	16	HEAT	Electric heating interface
17	Х3	Ground wire			

Model: ASC-24BI, ASC-30BI, ASC-36BI, ASC-42BI, ASC-48BI, ASC-60BI;

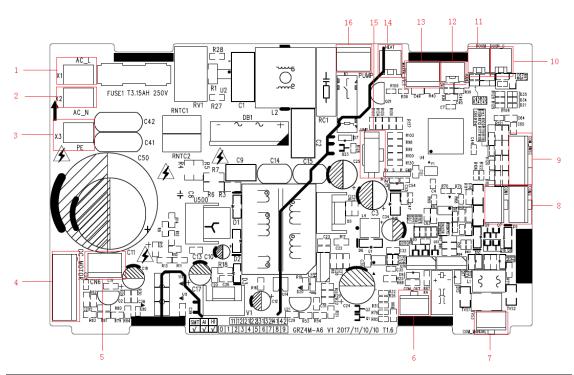


No.	Printing	Interface	No.	Printing	Interface
1	AC-L	Live wire input	2	AC-N	Neutral wire input
3	DC_MOTOR	DC motor output	4	SS	Limit switch sensing interface
5	UD_SWING2	Vertical swing output 2	6	UD_SWING1	Vertical swing output 1
7	DOOR_C	Access control interface	8	COM_BMS	MODBUS gateway interface
9	COM1, COM2	Accessories communication	10	COM_MANUAL	Wired control communication

No.	Printing	Interface	No.	Printing	Interface
		interface			interface
11	COM_OUT	ODU communication interface	12	TUBE	Indoor tube temperature sensor interface
13	ROOM	Ambient temperature sensor interface	14	DISP2	Light board interface 2
15	DISP3	Light board interface 3	16	SWING_OUT1 SWING_OUT2	Air outlet lifting output 1 Air outlet lifting output 2
17	PUMP	DC water pump interface	18	HEAT	Electric heating interface
19	WATER_DTCT	Water level switch	20	CN7	Air return lifting output

## Model:

ASD-12BI, ASD-18BI, ASD-24BI, ASD-30BI, ASD-36BI, ASD-42BI, ASD-48BI, ASD-60BI;

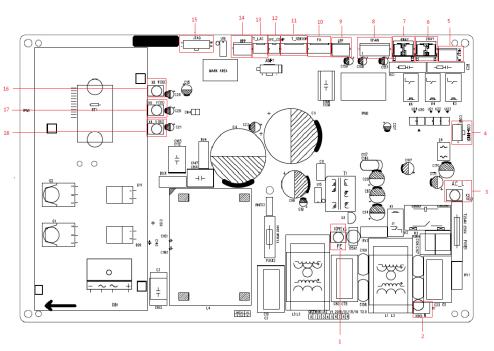


No.	Printing	Interface	No.	Printing	Interface
1	AC-L	Live wire input	2	AC-N	Neutral wire input
3	PE	Ground wire	4	DC-MOTOR	DC motor output
5	CN6	Motor type selection	6 COM-OUT		ODU communication

No.	Printing	Interface	No.	Printing	Interface
		interface			interface
7	COM-MANUAL	Wired control	8	COM1, COM2	Accessories
	COM-MANUAL	communication interface	0	COIVIT, COIVIZ	communication interface
9	COM BMS	MODBUS gateway interface	10	DOOR C	Access control sensing
9	9 COM_BMS	WODBOS galeway interface	10	DOOK_C	interface
11	ROOM	Room ambient temperature	12	TUBE	Indoor tube temperature
11	KOOW	sensor interface	12	TOBE	sensor interface
13	WATER DICT	ATER_DTCT Water overflow detection 14		HEAT	Auxiliary heating
13	WAIER_DICI			HEAL	interface (reserved)
15	JUMP	Jumper cap	16	PUMP	Water pump interface

Model: ASGE-12BI, ASGE-18BI;

# Mainboard

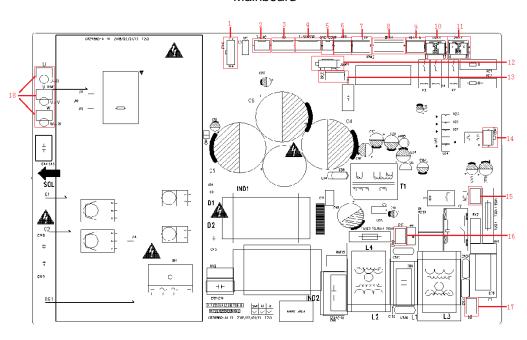


No.	Printing	Interface	No.	Printing	Interface
1	Х3	Ground wire	2	X1	Neutral wire
3	X2	Live wire	4	COM7	IDU communication interface
5	HEAT_B	Chassis electric heating	6	2WAY	2-way valve
7	4WAY	4-way valve	8	OFAN	External drive DC fan
9	LPP	System low pressure protection interface	10	FA	Solenoid expansion valve
11	T_SENSOR	Temperature sensor group	12	OVC_COMP	Compressor overload detection
13	T_LAC	Low temperature cooling temperature sensor	14	HPP	System high pressure protection interface

No.	Printing	Interface	No.	Printing	Interface
15	JTAG	Programming	16	X6	Inverter compressor W phase
17	X5	Inverter compressor V phase	18	X4	Inverter compressor U phase

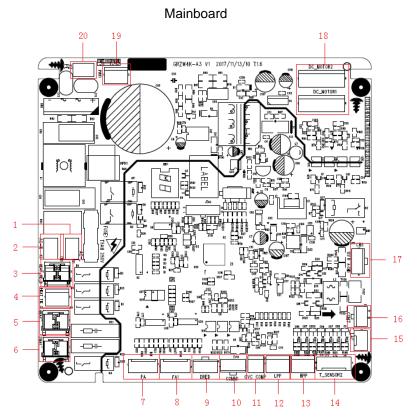
Model: ASGE-24BI, ASGE-30BI;

# Mainboard



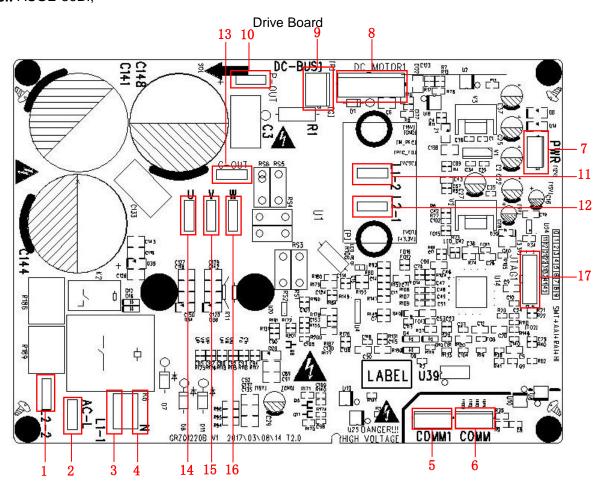
No.	Printing	Interface	No.	Printing	Interface
1	JTAG	Programming interface	10	2WAY	2-way valve
2	T-LAC	Low temperature cooling temperature sensing interface	11	HEAT-B	Chassis electric heating
3	FA	Electronic expansion valve	12	JUMP1	Jumper cap
4	T-SENSOR	Temperature sensor	13	DRED	DRED
5	OVC-COMP	Compressor overload detection	14	COM7	IDU and ODU communication interface
6	HPP	High pressure switch	15	AC-L	AC input live wire
7	LPP	Low pressure switch	16	N1	AC input neutral wire
8	OFAN	DC fan interface	17	PE	AC input ground wire
9	4WAY	4-way valve	18	U/V/W	Compressor interface

# Model: ASGE-36BI, ASGE-36BI-3, ASGE-42BI-3, ASGE-48BI-3, ASGE-60BI-3;

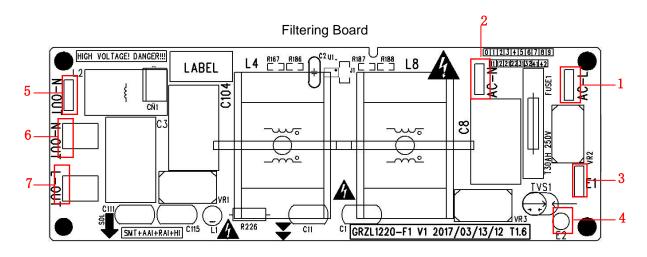


No.	Printing	Interface	No.	Printing	Interface
1	AC-L	Live wire input	2	AC-N	Neutral wire input
3	HEAT_TIE_B	Chassis electric heating belt	4	HEAT_TIE_C	Compressor electric heating belt
5	4WAY	4-way valve	6	2WAY	2-way valve
7	FA	Electronic expansion valve interface	8	FA1	Electronic expansion valve 1 interface Refrigerant heat dissipation
9	DRED	DRED communication interface	10	COMM1	Drive communication interface
11	OVC_COMP	Compressor overload protection interface	12	LPP	System low pressure protection interface
13	HPP	System high pressure protection interface	14	T_SENSOR2	Outdoor tube temperature sensor interface     Outdoor ambient temperature sensor interface     Discharge temperature sensor interface
15	T_LAC	Low temperature cooling temperature sensing	16	COM7	Unit communication interface
17	CN6	GPRS communication interface	18	DC_MOTOR1 DC_MOTOR2	DC motor output
19	PWR1	310V DC power supply interface	20	PE	Ground wire interface

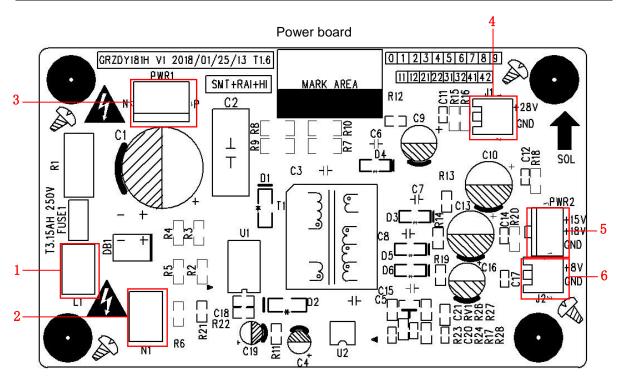
## Model: ASGE-36BI;



No.	Printing	Interface	No.	Printing	Interface
1	L2-2	PFC induction wire (blue)	10	P-OUT	Reserved
2	AC-L	Live wire	11	L1-2	PFC induction wire (white)
3	L1-1	PFC induction wire (brown)	12	L2-1	PFC induction wire (yellow)
4	N	Neutral wire	13	G-OUT	Reserved
5	COMM1	Communication terminal, same with COMM	14	U	Compressor U phase terminal
6	СОММ	Communication terminal, same with COMM1	15	V	Compressor V phase terminal
7	PWR	Drive power supply terminal	16	W	Compressor W phase terminal
8	DC-MOTOR1	DC fan terminal	17	JTAG1	Programming interface (for testing)
9	DC-BUS1	Power discharge terminal (for testing)			



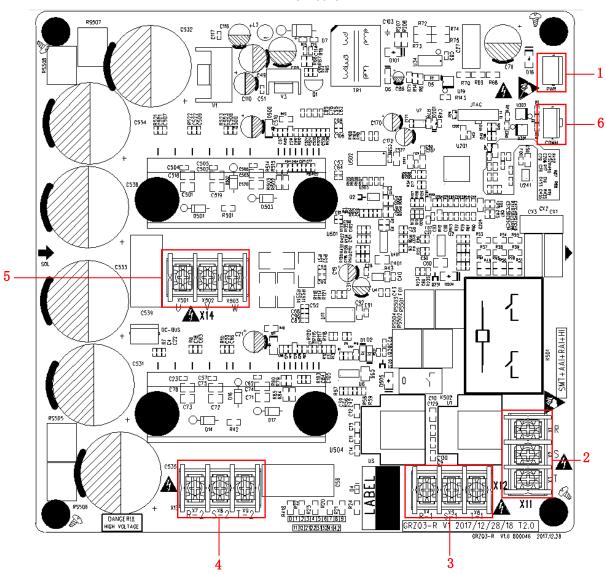
No.	Printing	Interface	No.	Printing	Interface
1	AC-L	Power input live wire terminal	5	N-OUT	Power output neutral wire terminal (reserved)
2	AC-N	Power input neutral wire terminal	6	N-OUT	Power output neutral wire terminal
3	E1	Filtering board ground wire terminal	7	L-OUT	Power output live wire terminal
4	E2	Filtering board grounding hole (reserved)			



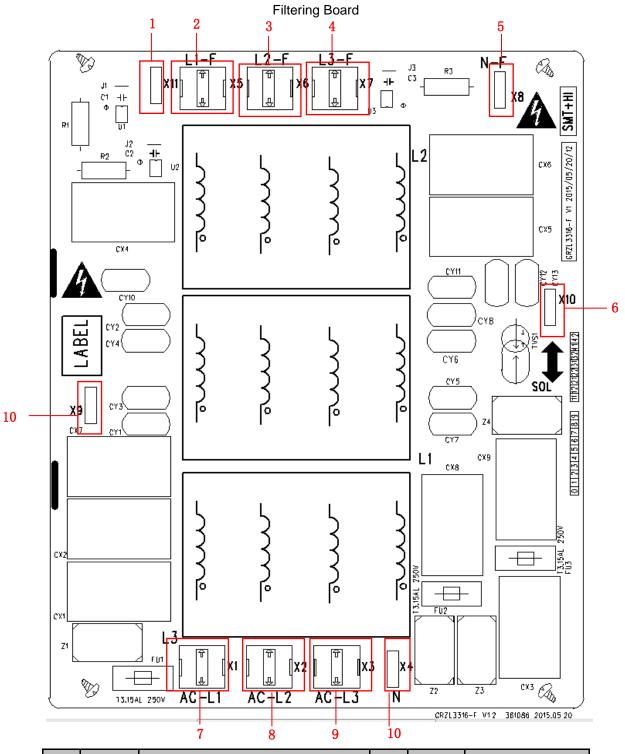
No.	Printing	Interface		Printing	Interface
1	L1	Power live wire terminal (reserved)	4	J1	+28V terminal (reserved)
2	N1	Power neutral wire terminal (reserved)	5	PWR2	Drive power supply terminal
3	PWR1	DC busbar terminal	6	J2	+8V terminal (reserved)

## Model: ASGE-36BI-3, ASGE-42BI-3, ASGE-48BI-3, ASGE-60BI-3;

#### **Drive Board**



No.	Printing Interface	
1	PWR	Power supply busbar input terminal
2	X1/ X2/X3	Mainboard power supply 3-phase input terminal
3	X4/ X5/X6	Electric reactor 3-phase connection terminal (input terminal)
4	X7/ X8/X9	Electric reactor 3-phase connection terminal (output terminal)
5	X501/X502/X503	Compressor 3-phase connection terminal
6	СОММ	Communication interface



No.	Printing	Interface		Printing	Interface
_	X11	Power output live wire AC-L1 (connect to	7	Х3	Unit power input
'	XII	master control board AC-L)	/		wire AC-L3
2	X5	Power output wire L1-F (connect to drive	8	X2	Unit power input
	70	board L1-F)	0		wire AC-L2
2	3 X6	Power output wire L2-F (connect to drive	9	X1	Unit power input
3		board L2-F)			wire AC-L1
4	X7	Power output wire L3-F (connect to drive	10	X9	Ground wire
4		board L3-F)	10	79	Glourid Wife
5	X8 Power output wire N-F (connect to 11 X4 Unit po		Unit power input		

No.	Printing	Interface		Printing	Interface
		master control board N)			neutral wire N
6	X10	Ground wire E, reserved			

# 3.2.2 IPM,PFC Testing Method

## 3.2.2.1Method of Testing IPM Module

- (1) Preparation before test: prepare a universal meter and turn to its diode option, and then remove the wires U, V, W of the compressor after it is powered off for one minute.
  - (2) Testing Steps
- Step 1: put the black probe on the place P and the red one on the wiring terminal U, V, W respectively as shown in the following figure to measure the voltage between UP, VP and WP.
- Step 2: put the red probe on the place N and the black one on the wiring terminal U, V, W respectively as shown in the following figure to measure the voltage between NU, NV and NW.
- (3) If the measured voltages between UP, VP, WP, NU, NV, NV are all among 0.3V-0.7V, then it indicates the IPM module is normal; If any measured valve is 0, it indicates the IPM is damaged.

## 3.2.2.2 Method of Testing PFC Module Short Circuit: (only for ASGE-36BI)

- (1) Preparation before test: prepare a universal meter and turn to its diode option, and then remove the wires L1-2, L2-1 after it is powered off for one minute.
  - (2) Testing Steps:
- Step 1: put the black probe on the place P and the red one on the wiring terminal L1-2, L2-1respectively as shown in the following figure to measure the voltage between L1-2P and L2-1 P.
- Step 2: put the red probe on the place N and the black one on the wiring terminal L1-2, L2-1respectively as shown in the following figure to measure the voltage between N L1-2 and NL2-1.
- (3) If the measured voltages between L1-2P ,L2-1 P, N L1-2 , NL2-1 are all among 0.3V-0.7V, then it indicates the PFC module is normal; If any measured valve is 0, it indicates the PFC is damaged.

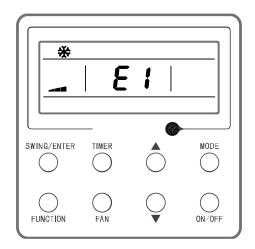


# 3.3 Error Code

Number	Error code	Error
1	E1	Compressor high pressure protection
2	E2	Indoor anti-freeze protection
3	E3	Compressor low pressure protection, refrigerant lack protection and refrigerant colleting mode
4	E4	Compressor air discharge high-temperature protection
5	E6	Communication error
6	E8	Indoor fan error
7	E9	Water-full protection
8	F0	Indoor ambient temperature sensor error
9	F1	Evaporator temperature sensor error
10	F2	Condenser temperature sensor error
11	F3	Outdoor ambient temperature sensor error
12	F4	Discharge temperature sensor error

Number	Error code	Error
13	F5	Wired control temperature sensor error
14	C5	IDU jumper cap error
15	EE	IDU or ODU memory chip error
16	PF	Electric box sensor error
17	НЗ	Compressor overload protection
18	H4	Overload
19	H5	IPM protection
20	H6	DC fan error
21	H7	Driver out-of-step protection
22	HC	Pfc protection
23	Lc	Startup failure
24	Ld	Compressor phase-sequence protection
25	LF	Power protection
26	Lp	IDU and ODU unmatched
27	U7	4-way valve switch-over error
28	P0	Driver reset protection
29	P5	Over-current protection
30	P6	Master control and driver communication error
31	P7	Driver module sensor error
32	P8	Driver module high temperature protection
33	P9	Zero-crossing protection
34	PA	AC current protection
35	Pc	Driver current error
36	Pd	Sensor connection protection
37	PE	Temperature drift protection
38	PL	Bus low-voltage protection
39	PH	Bus high-voltage protection
40	PU	Charge loop error
41	PP	Input voltage error
42	ee	Drive memory chip error
43	C4	ODU jumper cap error
44	dJ	Phase-loss and anti-phase protection
45	οE	ODU error, for specific error please see the status of ODU indicator
46	EL	Emergency stop (fire alarm)

If malfunction occurs during operation, LCD temperature display zone will show the failure information. If several malfunctions occur at the same time, their corresponding error codes will be shown in turn. When malfunction occurs, please shut off the unit and send for professional personnel to repair. For example, E1 (as shown below) indicates high pressure protection.



# 3.4 Troubleshooting

# 3.4.1 "E1" Compressor High Pressure Protection

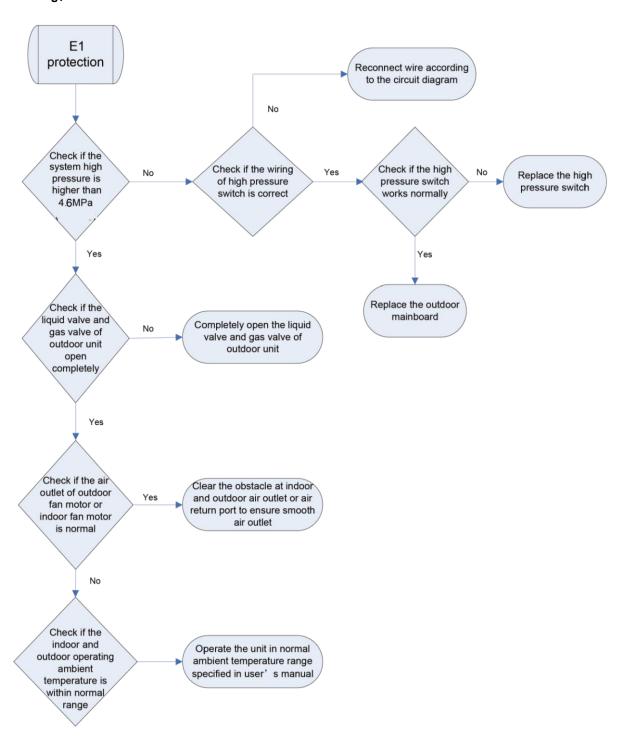
Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

### Error judgment condition and method:

It is judged through the action of high pressure switch. If the high pressure switch is cut off, it is judged that high pressure is too high and the system stops operation for protection.

#### Possible reason:

- ■Cut-off valve of ODU is not fully opened;
- ■High pressure switch is abnormal;
- ■Outdoor or indoor fan is not working properly;
- ■IDU filter or air duct is blocked (heating mode);
- ■Ambient temperature is too high;
- ■Refrigerant charging amount is too much;
- ■System pipeline is blocked



# 3.4.2 "E2" Indoor Anti-freezing Protection

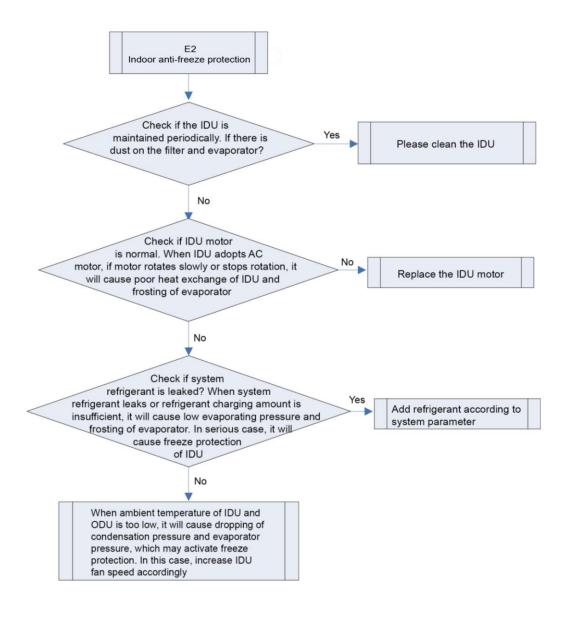
Error display: IDU wired control and IDU receiver light board will display

#### Error judgment condition and method:

Check IDU pipe temperature. When pipe temperature is too low, freeze protection will be activated to prevent freezing damage of evaporator.

#### Possible reason:

- ■IDU filter and evaporator are dirty
- ■IDU motor is blocked
- ■Refrigerant amount is insufficient
- ■Ambient temperature of IDU and ODU is too low



# 3.4.3 "E3" Compressor Low-pressure Protection, Refrigerant Shortage

# **Protection, Refrigerant Recovery Mode**

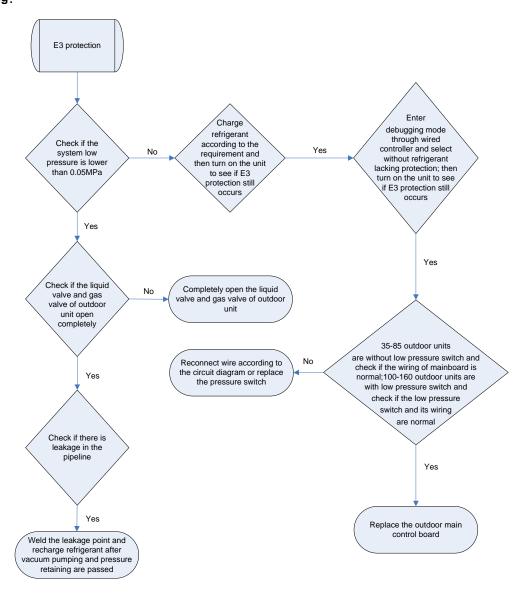
Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

#### Error judgment condition and method:

It is judged through the action of low pressure switch. If the low pressure switch is cut off, it is judged that low pressure is too low and the system stops operation for protection.

#### Possible reason:

- ■Cut-off valve of ODU is not fully opened;
- ■Low pressure sensor is abnormal;
- ■Outdoor or indoor fan is not working properly;
- ■IDU filter or air duct is blocked (cooling mode);
- ■Ambient temperature is too low;
- ■Refrigerant charging amount is insufficient;
- ■System pipeline is blocked;



# 3.4.4 "E4" Compressor Air Discharge High-temperature Protection

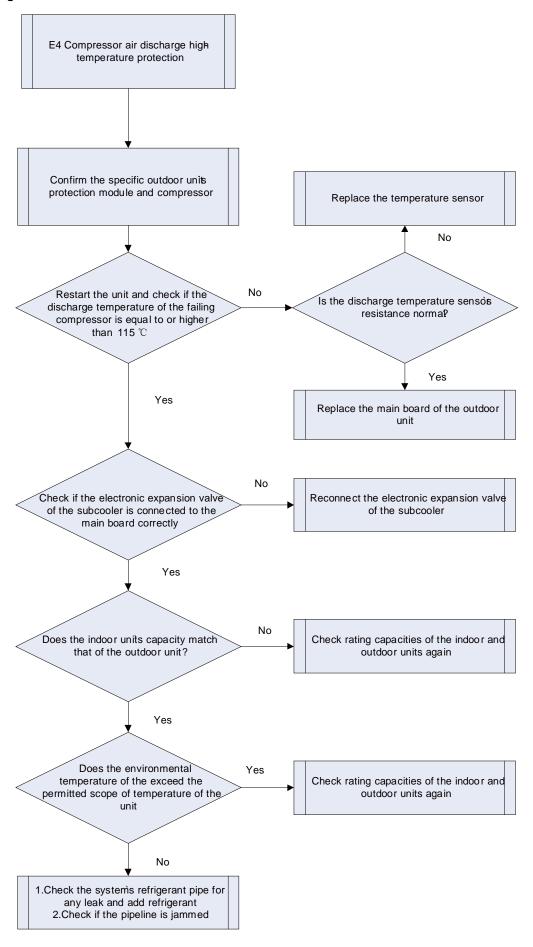
Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

## Error judgment condition and method:

Test the compressor discharge temperature through compressor discharge pipe and shell top temperature sensor. If the tested temperature value is higher than  $115^{\circ}$ C, the unit will stop for protection

#### Possible reason:

- ■Cut-off valve of ODU is not fully opened;
- ■Electronic expansion valve is abnormal;
- ■Outdoor or indoor fan is not working properly;
- ■IDU filter or air duct is blocked (cooling mode);
- ■Ambient temperature exceeds allowable operation range;
- ■Refrigerant charging amount is insufficient;
- ■System pipeline is blocked;



# 3.4.5 "E6" Communication Error

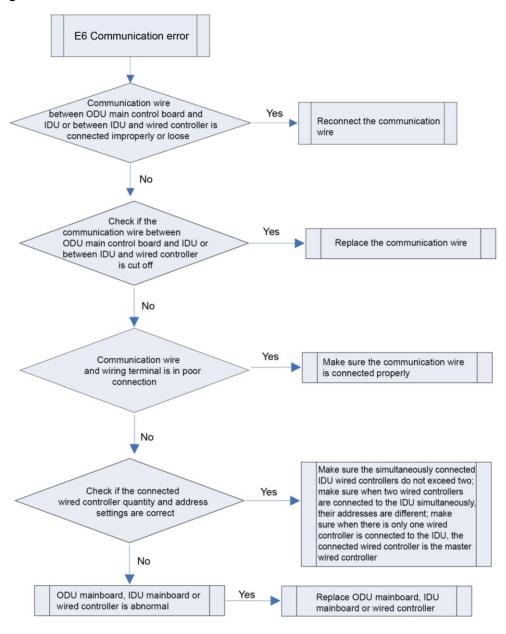
Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

#### Error judgment condition and method:

If no communication between ODU and IDU or between IDU and wired controller in continuously 120s, this error will be reported.

#### Possible reason:

- ■Communication wire is connected improperly or loose.
- ■Communication wire is cut off
- ■Communication wire is in poor connection
- ■Connected wired controller quantity or address setting is improper
- ■Controller is abnormal



## 3.4.6 "E8" Indoor Fan Error

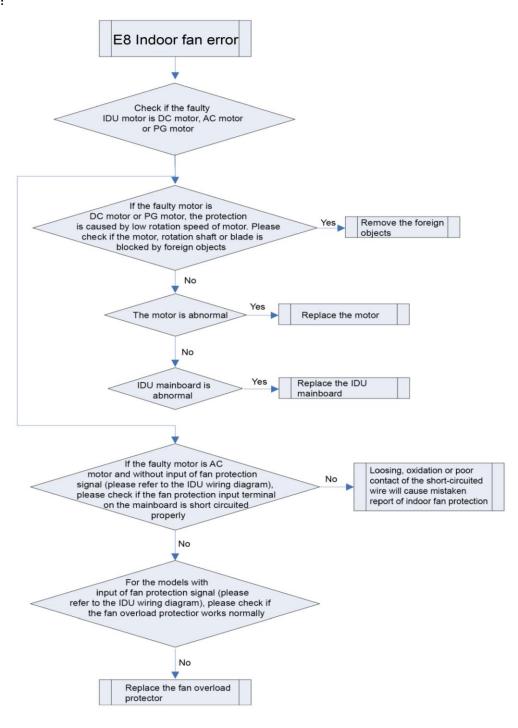
Error display: IDU wired control and IDU receiver light board will display

#### Error judgment condition and method:

Check if the rotation speed of IDU is too slow, or it stops rotation, or protection signal of outdoor fan is transferred. If yes, it is judged that indoor fan protection occurs

#### Possible reason:

- ■Motor stops operation or it is blocked
- ■IDU mainboard is abnormal;



## 3.4.7 "E9" Water Overflow Protection

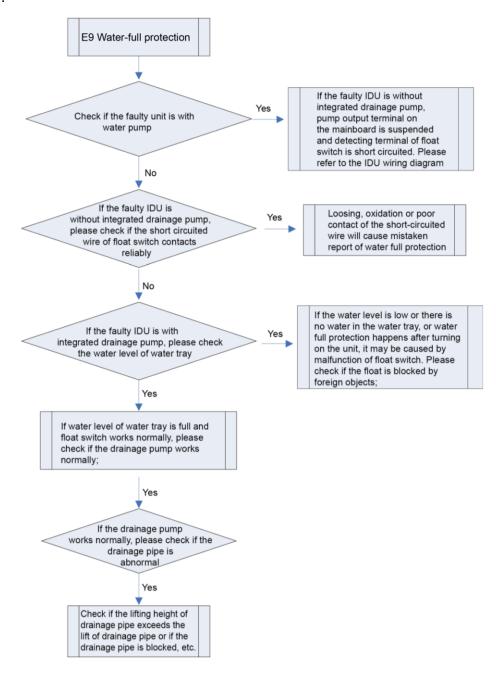
Error display: IDU wired control and IDU receiver light board will display

#### Error judgment condition and method:

Check the status of IDU float switch. When water level is too high, float switch is activated, so water full protection happens.

#### Possible reason:

- ■IDU is installed improperly
- ■Drainage pump is broken
- ■Float switch operates abnormally
- ■IDU mainboard is abnormal:



# 3.4.8 "F0" Indoor Ambient Temperature Sensor Error

Error display: IDU wired control and IDU receiver light board will display

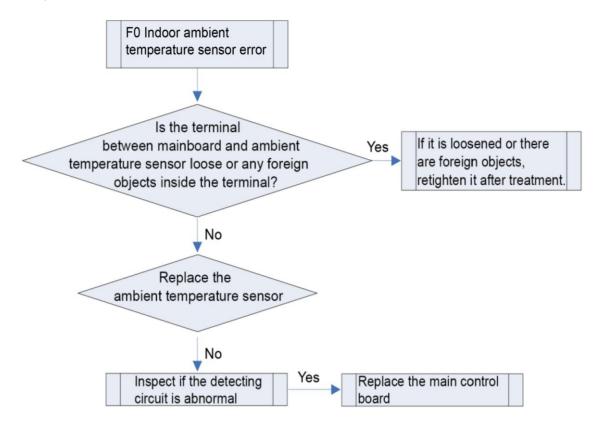
#### Error judgment condition and method:

Sample the AD value of temperature sensor through temperature sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

#### Possible reason:

- ■Poor contact between ambient temperature sensor and terminal in mainboard interface
- ■Ambient temperature sensor is abnormal
- ■Detecting circuit is abnormal

#### Troubleshooting:



# 3.4.9 "F1" Evaporator Temperature Sensor Error

Error display: IDU wired control and IDU receiver light board will display

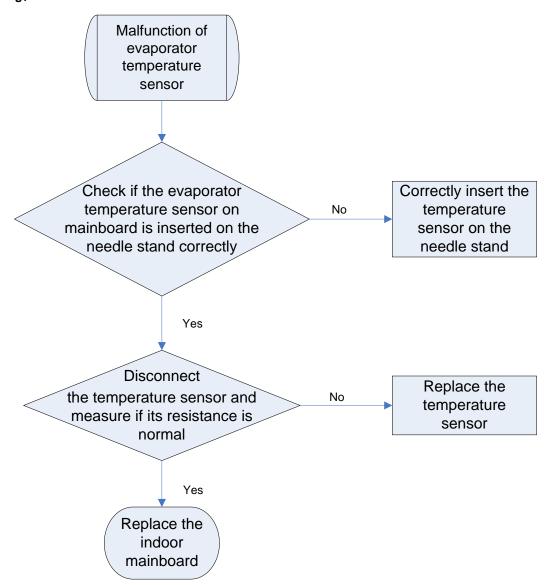
### Error judgment condition and method:

Sample the AD value of temperature sensor through temperature sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

#### Possible reason:

- ■Poor contact between temperature sensor and terminal in mainboard interface
- ■Temperature sensor is abnormal
- ■Detecting circuit is abnormal

## Troubleshooting:



Note: Please refer to Appendix 1 for the relation between temperature and resistance of temperature sensor.

# 3.4.10 "F2" Condenser Temperature Sensor Error

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display:

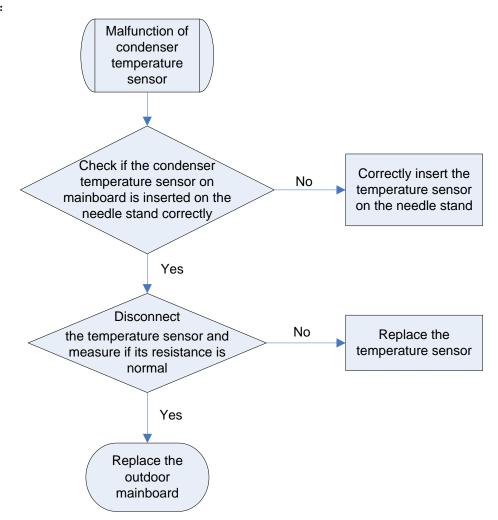
#### Error judgment condition and method:

Sample the AD value of temperature sensor through temperature sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

#### Possible reason:

- ■Poor contact between temperature sensor and terminal in mainboard interface
- ■Temperature sensor is abnormal
- ■Detecting circuit is abnormal

#### Troubleshooting:



Note: Please refer to Appendix 1 for the relation between temperature and resistance of temperature sensor.

# 3.4.11 "F3" Outdoor Ambient Temperature Sensor Error

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display:

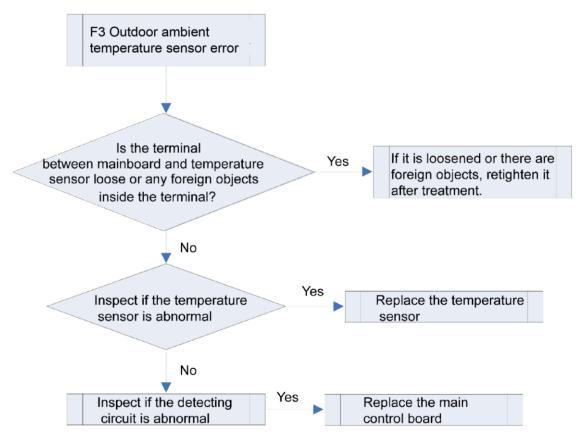
#### Error judgment condition and method:

Sample the AD value of temperature sensor through temperature sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

#### Possible reason:

- ■Poor contact between ambient temperature sensor and terminal in mainboard interface
- ■Ambient temperature sensor is abnormal
- ■Detecting circuit is abnormal

#### Troubleshooting:



Note: Please refer to Appendix 1 for the relation between temperature and resistance of temperature sensor.

# 3.4.12 "F4" Discharge Temperature Sensor Error

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

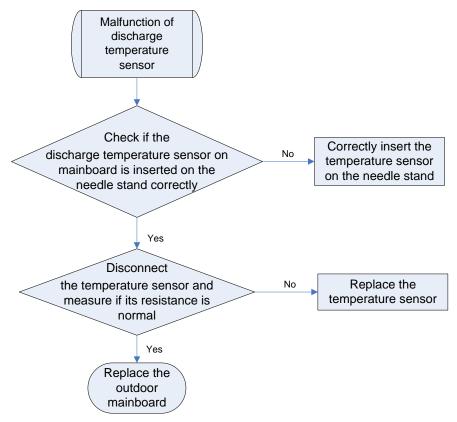
#### Error judgment condition and method:

Sample the AD value of temperature sensor through temperature sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

#### Possible reason:

- ■Poor contact between temperature sensor and terminal in mainboard interface
- ■Temperature sensor is abnormal
- ■Detecting circuit is abnormal

#### Troubleshooting:



Note: Please refer to Appendix 1 for the relation between temperature and resistance of temperature sensor.

# 3.4.13 "F5" Wired Control Temperature Sensor Error

Error display: IDU wired control and IDU receiver light board will display

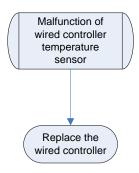
#### Error judgment condition and method:

Sample the AD value of temperature sensor through temperature sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

#### Possible reason:

- ■Poor contact between temperature sensor and terminal in mainboard interface
- ■Temperature sensor is abnormal
- ■Detecting circuit is abnormal

#### Troubleshooting:



# 3.4.14 "C5" IDU Jumper Cap Error

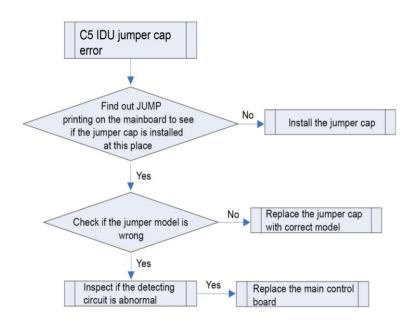
Error display: IDU wired control and IDU receiver light board will display

## Error judgment condition and method:

If jumper cap model doesn't match with mainboard, this error will be reported.

#### Possible reason:

- ■Jumper cap is not installed.
- ■Jumper cap model is wrong.
- ■Detecting circuit is abnormal.



# 3.4.15 "EE" IDU or ODU Memory Chip Error

Error display: IDU wired control, IDU and ODU receiver light board will display

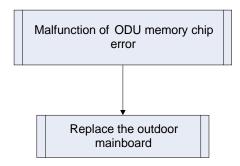
#### Error judgment condition and method:

If ODU mainboard cannot read the memory chip, this error will be reported.

#### Possible reason:

- Memory chip on the ODU mainboard is damaged.
- ■. Memory chip is weakly welded.
- ■. Memory chip lead is short-circuited.

## **Troubleshooting:**



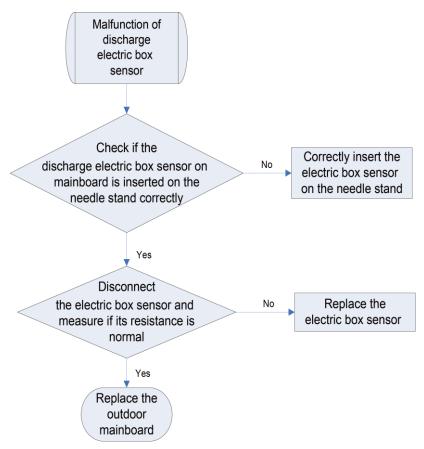
# 3.4.16 "PF" Electric Box Sensor Error

Error display: ODU mainboard, IDU wired controller

## Error judgment condition and method:

Sample the AD value of temperature sensor through temperature sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

- ■Poor contact between temperature sensor and terminal in mainboard interface
- ■Temperature sensor is abnormal
- ■Detecting circuit is abnormal



Note: Please refer to Appendix 1 for the relation between temperature and resistance of temperature sensor.

# 3.4.17 "H3" Compressor Overload Protection

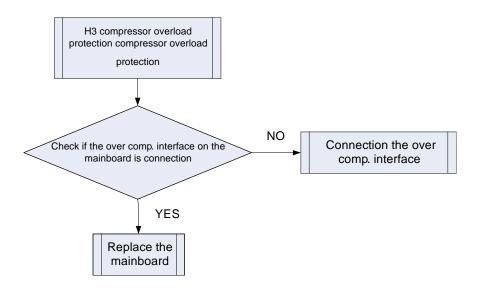
Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

#### Error judgment condition and method:

When the mainboard's interface ovc-comp is broken off for 3s, error H3 will be reported.

#### Possible reason:

- ■The interface ovc-comp is not short-circuited.
- ■ODU mainboard is damaged.



## 3.4.18 "H4" Overload

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

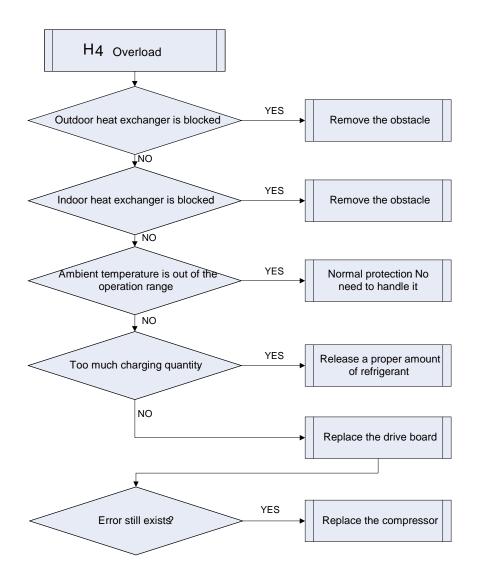
#### Error judgment condition and method:

When tube temperature is higher than the protection value, system will report overload protection.

#### Possible reason:

- ■Cooling ODU heat exchanger is blocked or heat exchange is bad.
- ■Heating IDU heat exchanger is blocked or heat exchange is bad.
- ■Operating temperature is too high.
- ■System charging quantity is too much.

#### Troubleshooting:



## 3.4.19 "H5" IPM Protection

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

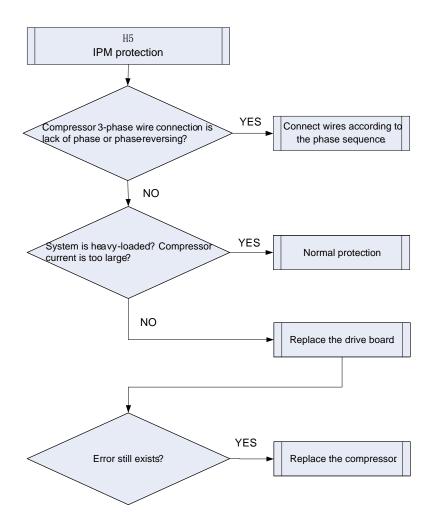
## Error judgment condition and method:

When power is connected and drive chip received IPM lead F0 that is of low level, than it is IPM module malfunction. System will shut down for protection.

#### Possible reason:

■Compressor 3-phase wire connection is lack of phase or phase-reversed.

- ■System is overloaded and compressor current is too large.
- ■Drive board IPM module is damaged.
- ■Drive board IPM module's 15V power supply is lower than 13.5V.
- ■Drive board 6-line PWM signal and the corresponding element are abnormal.
- ■Drive board compressor current sampling circuit element is damaged or drive chip current sampling AD terminal is abnormal.
- ■Compressor is damaged.



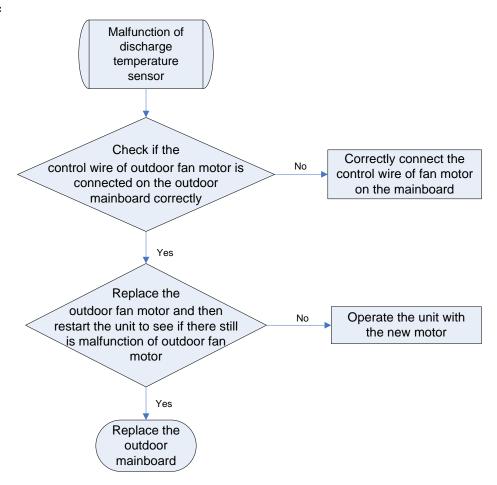
## 3.4.20 "H6" DC Fan Error

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

## Error judgment condition and method:

Mainboard doesn't receive the signal of outdoor fan within 30s after the outdoor fan starts up.

- ■Outdoor fan wiring terminal is not correctly connected to the mainboard.
- ■Outdoor fan is damaged.
- ■If it is a new unit or a new motor has been replaced in the unit and the wire connection is correct, then probably it is the program that goes wrong.



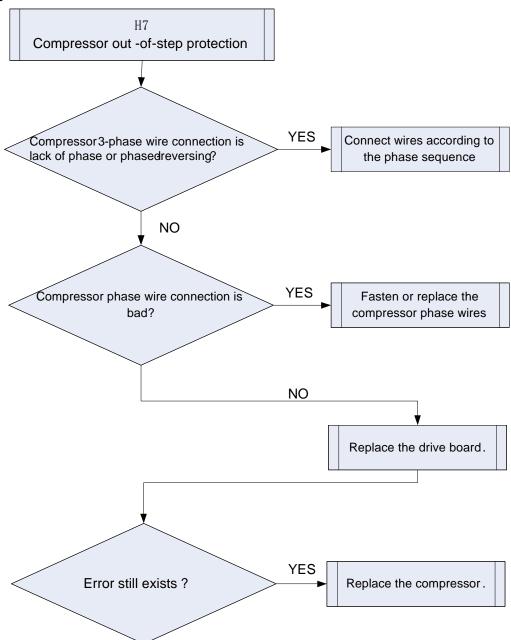
# 3.4.21 "H7" Driver Out-of-Step Protection

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

#### Error judgment condition and method:

During operation, it can't detect the rotor position and stops output. Or the actual running speed differs too much from the set running speed. In each case, compressor runs out of step and system stops for protection.

- ■Compressor 3-phase wire connection is lack of phase or phased-reversed.
- ■Compressor phase wire connection is bad.
- ■System is blocked, short of refrigerant or compressor oil.
- ■Drive board IPM module is damaged.
- ■Drive board compressor current sampling circuit element is damaged or drive chip current sampling AD terminal is abnormal.
- ■Compressor is damaged.



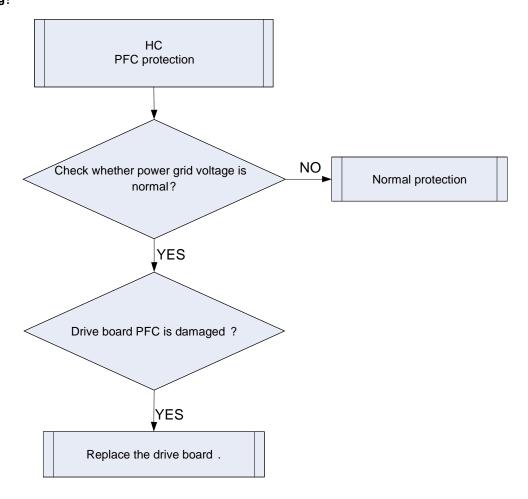
## 3.4.22 "HC" PFC Protection

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

## Error judgment condition and method:

After power is connected, and drive chip received IPM lead F0 that is of low level, than it is IPM module malfunction. System will shut down for protection.

- ■Power grid voltage is abnormal.
- ■Drive board PFC module is damaged.
- ■Drive board IPM module's 15V power supply is lower than 13.5V.
- ■Drive board PWM signal for PFC and the corresponding element are abnormal.
- ■Drive board PFC current sampling circuit element is damaged or drive chip current sampling AD terminal is abnormal.



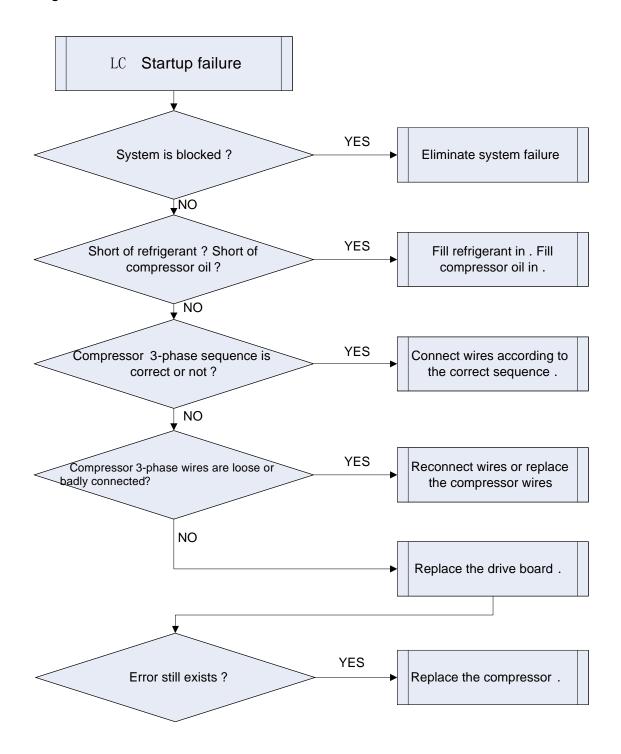
# 3.4.23 "Lc" Startup Failure

Error display: ODU mainboard, IDU wired controller and IDU receive light board will display

## Error judgment condition and method:

Check the error code on nixie tube of ODU main control board. If PJ is displayed, it indicates inverter compressor startup failure

- ■Poor contact of compressor UVW wire;
- ■Compressor is broken;
- ■Compressor drive board is broken;



# 3.4.24 "Lp" IDU and ODU Unmatched

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

Error judgment condition and method:/

#### Possible reason:

■Models of indoor unit and outdoor unit do not match with each other

## Troubleshooting:

Turn off the unit and replace with a matched indoor or outdoor unit.

## 3.4.25 "U7" 4-Way Valve Switch-Over Error

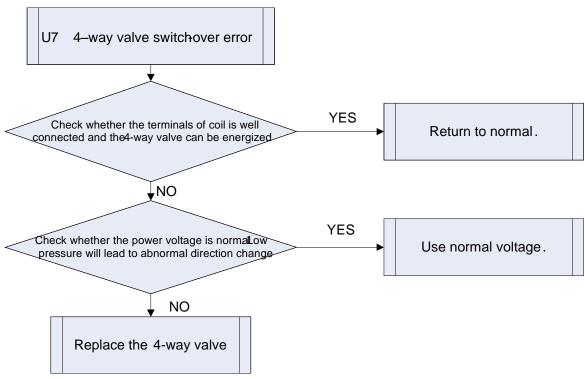
Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

Error judgment condition and method:

#### Possible reason:

- ■Voltage is abnormal. For example, low voltage will cause abnormal direction change of the 4-way valve.
- ■Pilot valve holder hole or the capillary tube is blocked, which has caused small flow or no flow.
- ■Capillary tube is blocked when connecting to the pilot valve or main valve.
- ■Coil is not power-connected, or is open-circuited. Voltage is low, or the contact between turns or terminals is bad.
- ■The stainless steel cover of pilot valve is damaged, or the steel core is stuck, or the spring is not elastic.
- ■Insert block is bent or not elastic, so the little slide cannot get in place.
- ■When adding refrigerant, the little slide is over-running and can't spring back.

#### Troubleshooting:



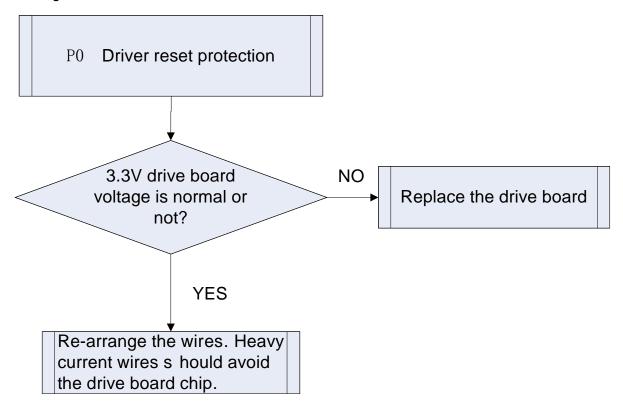
## 3.4.26 "P0" Driver Reset Protection

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

#### Error judgment condition and method:

Drive board chip resets and starts initialization. After the drive board is energized for 5s, it detects that the chip resets again. In this case, it can be judged as drive chip reset protection.

- ■3.3V drive chip supply voltage drop.
- ■TRST lead of JTAG programming is interrupted.



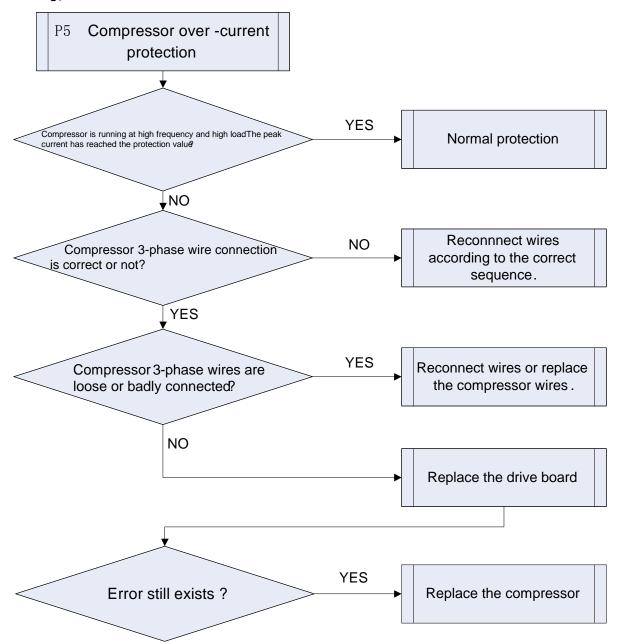
## 3.4.27 "P5" Over-Current Protection

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

## Error judgment condition and method:

If compressor's instant current value is higher than the set current protection value, then it can be judged that compressor over-current occurs and system will shut down for protection.

- ■System load is too much and compressor current is too large.
- ■Compressor 3-phase wire connection is lack of phase or phase-reversed.
- ■Compressor phase wire is loose or has bad contact.
- ■Drive board current sampling circuit element is damaged or drive chip current sampling AD terminal is abnormal.
- ■Compressor is damaged.



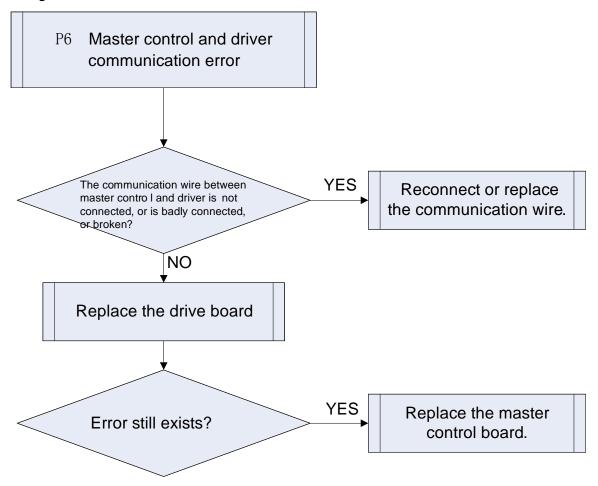
## 3.4.28 "P6" Master Control and Driver Communication Error

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

## Error judgment condition and method:

If there is no other malfunction and the communication between master control and driver is cut off for 30s, then it can be judged that the communication between master control and driver is faulted. System will shut down for protection.

- ■Communication wire between master control and driver is not well connected, or has bad contact, or is broken.
- ■The switch power of drive board is abnormal, therefore, the 3.3V power voltage is abnormal.
- ■Communication circuit of the drive board or the master control board is abnormal.



## 3.4.29 "P7" Driver Module Sensor Error

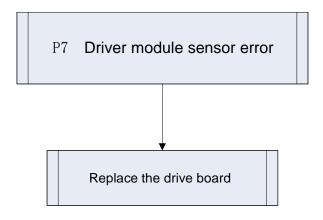
Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

## Error judgment condition and method:

If IPM or PFC module temperature is lower than the set protection value, then it can be judged that driver module sensor error occurs and system will shut down for protection.

#### Possible reason:

- ■Module temperature sensor is short-circuited or broken-circuited.
- ■Drive board current sampling circuit element is damaged or drive chip current sampling AD terminal is abnormal.



## 3.4.30 "P8" Driver Module High Temperature Protection

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

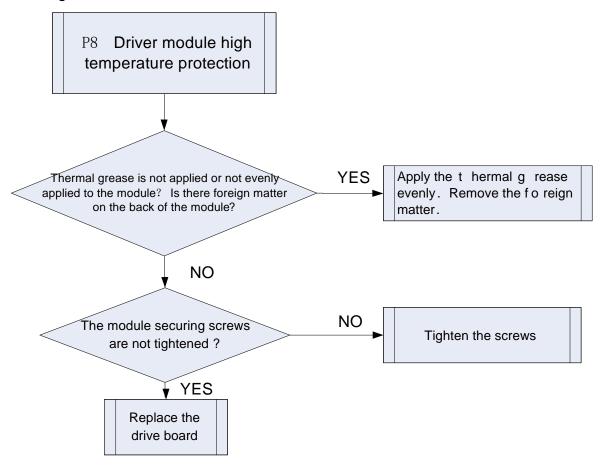
#### Error judgment condition and method:

If IPM module temperature or PFC module temperature exceeds the set protection value, then it can be judged that driver module temperature is too high and system will shut down for protection.

#### Possible reason:

- ■Thermal grease is not applied or not evenly applied to the module, or there is other substance on the back of the module.
- ■The module securing screws are not tightened up.
- ■Drive board temperature sampling circuit element is damaged or drive chip temperature sampling AD terminal is abnormal.

#### Troubleshooting:



# 3.4.31 "PA" AC Current Protection

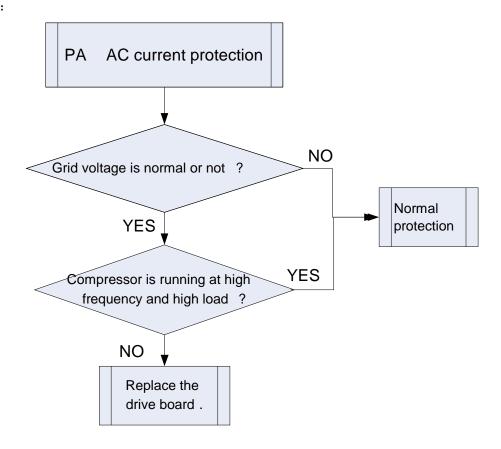
Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

#### Error judgment condition and method:

If input current value exceeds the set protection value, then it can be judged that AC current protection occurs and system will shut down for protection.

- ■System is heavy-loaded and compressor current is too large.
- ■Grid voltage is abnormal.

- ■PFC module is damaged.
- ■Drive board PFC current sampling circuit element is damaged or drive chip PFC current sampling AD terminal is abnormal.



## 3.4.32 "Pc" Driver Current Error

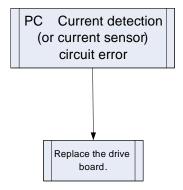
Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

## Error judgment condition and method:

After power charging, if offset voltage average is detected to exceed 12.5% of 1.65V in 1s, then it can be judged that current detection (or current sensor) circuit is faulted. System will shut down for protection.

#### Possible reason:

- ■Current detection (or current sensor) sampling circuit element is abnormal.
- ■Drive chip compressor current sampling AD terminal is badly welded or short-circuited.



## 3.4.33 "Pd" Sensor Connection Protection

Error display: ODU mainboard, IDU wired controller and IDU receive light board will display

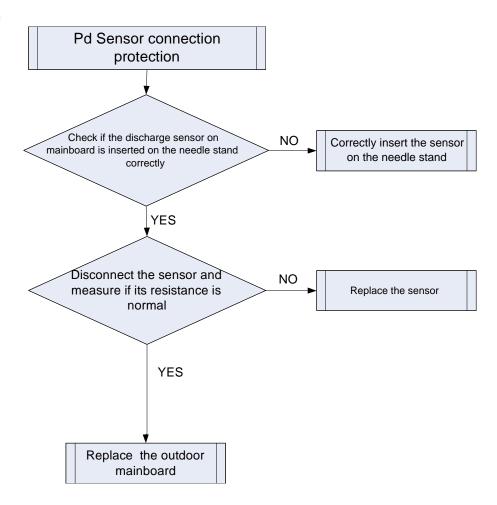
#### Error judgment condition and method:

Sample the AD value of sensor through sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

#### Possible reason:

- ■Poor contact between sensor and terminal in mainboard interface
- ■sensor is abnormal
- ■Detecting circuit is abnormal

#### Troubleshooting:



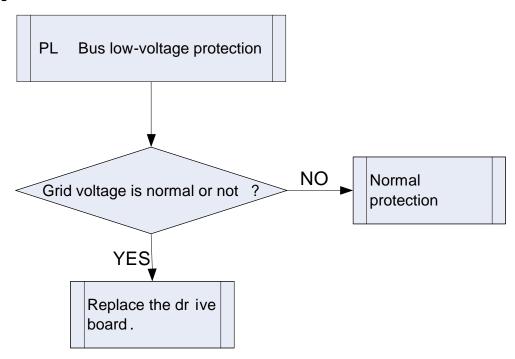
# 3.4.34 "PL" Bus Low-Voltage Protection

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

#### Error judgment condition and method:

When compressor is running and there is no other malfunction, if busbar voltage is lower than the set value for low voltage protection, then it can be judged that bus low-voltage protection occurs. System will shut down for protection.

- ■Voltage of power grid is abnormal.
- ■Drive board busbar voltage sampling circuit element is damaged or drive board busbar voltage sampling AD terminal is abnormal.



# 3.4.35 "PH" Bus High-Voltage Protection

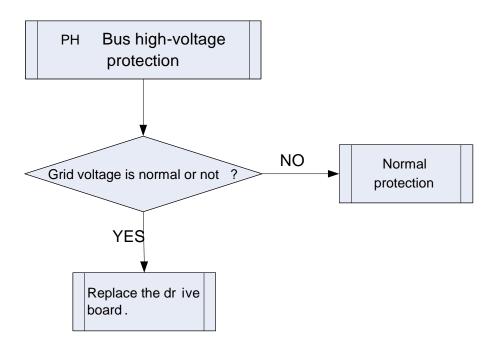
Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

#### Error judgment condition and method:

If there is no other malfunction and the busbar voltage is higher than the set value for high voltage protection, then it can be judged that bus high-voltage protection occurs. System will shut down for protection.

#### Possible reason:

- ■Voltage of power grid is abnormal.
- ■Drive board busbar voltage sampling circuit element is damaged or drive board busbar voltage sampling AD terminal is abnormal.



## 3.4.36 "PU" Charge Loop Error

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

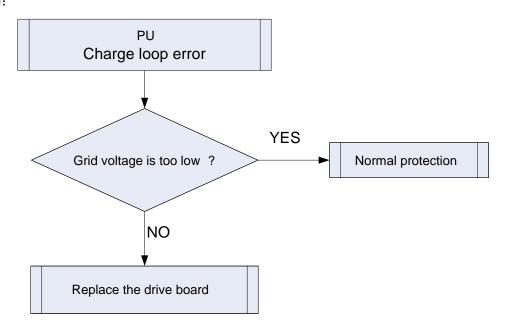
#### Error judgment condition and method:

When the charge loop starts to get charged and the busbar voltage cannot reach the set value in a certain period of time, then it can be judged that charge loop error exists. System will shut down for protection.

#### Possible reason:

- ■Voltage of power grid is abnormal. Voltage is too low.
- ■Drive board charge loop element is abnormal.
- ■Drive board busbar voltage sampling circuit element is damaged or drive chip busbar voltage sampling AD terminal is abnormal.

#### Troubleshooting:



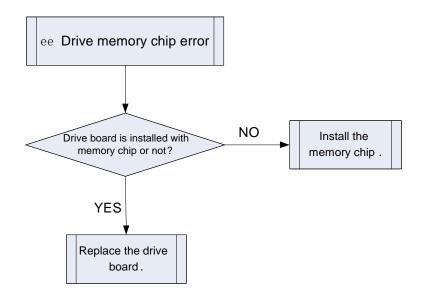
# 3.4.37 "ee" Drive Memory Chip Error

Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

## Error judgment condition and method:

If power is connected but the drive board with memory chip cannot detect the memory chip or read the memory chip data correctly, then it can be judged that drive memory chip error exists.

- ■The drive board that needs memory chip is not installed with the memory chip.
- ■The lead or connector of memory chip is badly welded or short-circuited.



# 3.4.38 "c4" ODU Jumper Cap Error

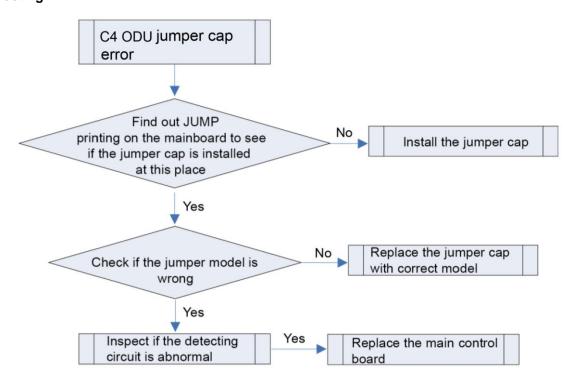
Error display: ODU mainboard, IDU wired control and IDU receiver light board will display

Error judgment condition and method:

If jumper cap model doesn't match with mainboard, report the error

#### Possible reason:

- ■Jumper cap is not installed
- ■Jumper cap model is wrong
- ■Detecting circuit is abnormal



# 3.4.39 "EL" Emergency Stop (Fire Alarm)

If fire alarm terminal is enabled after the IDU mainboard connects to function expansion panel, error EL will be reported.

# 3.5 Failures Not Caused by Errors

(1) If your air conditioner fails to function normally, please first check the following items before maintenance:

Problem	Cause	Corrective measure
	If you turn off the unit and then immediately turn it on, in order to protect the compressor and avoid system overload, compressor will delay running	Please wait for a while.
The air conditioner can't run.	for 3min.  Wire connection is wrong.	Connect wires according to the wiring diagram.
	Fuse or circuit breaker is broken.	Replace the fuse or switch on the circuit breaker.
	Power failure	Restart after power is resumed.
	Power plug is loose	Re-insert the power plug.
	Remote control has low battery.	Replace the batteries.
	Air inlet and outlet of indoor or outdoor units have been blocked.	Clear the obstacles and keep the room for indoor and outdoor units well ventilated.
	Improper temperature setting	Reset a proper temperature.
	Fan speed is too low.	Reset a proper fan speed.
	Air flow direction is not right.	Change the direction of air louvers.
	Doors or windows are open.	Close them.
Bad cooling or heating effect.	Exposed under direct sunshine	Put on curtains or louvers in front of the windows.
	Too many heat sources in the room.	Remove unnecessary heat sources.
	Filter is blocked or dirty.	Send for a professional to clean the filter.
	Air inlets or outlets of the units are blocked.	Clear away obstacles that are blocking the air inlets and outlets of indoor and outdoor units.

## (2) The following situations are not operation failures.

Phenomenon	Time of occurrence	Cause	
Mist comes from the air conditioner.	During operation	If the unit is running under high humidity, the wet air in the room will be quickly cooled down.	
The air conditioner generates	System switches to heating mode after defrosting.	Defrosting process will generate some water, which will turn to water vapor.	
some noise.	The air conditioner is buzzing at the beginning of operation.	Temperature control will be buzzing when it starts working. The noise will become weak 1min later.	
	When the unit is turned on, it purrs.	When the system is just started, the refrigerant is not stable. About 30s later, the purr of the unit becomes low.	
Dust comes from the air conditioner.	About 20s after the unit first enables the heating mode or there is refrigerant brushing sound when defrosting under heating.	It's the sound of 4-way valve switching direction. The sound will disappear after the valve changes its direction.	
	There is hissing sound when the unit is started or stopped and a slight hissing sound during and after operation.	It's the sound of gaseous refrigerant that stops flowing and the sound of drainage system.	
	There is a sound of crunching during and after operation.	Because of temperature change, front panel and other components may be swelled up and cause abrasion sound.	
	There is a hissing sound when the unit is turned on or suddenly stopped during operation or after defrosting.	Because refrigerant suddenly stops flowing or changes the flow direction.	
	The unit starts operation after being unused for a long time.	Dust inside the indoor unit comes out together with the air.	
The air conditioner generates some smell.	During operation	The room smell or the smell of cigarette comes out through the indoor unit.	

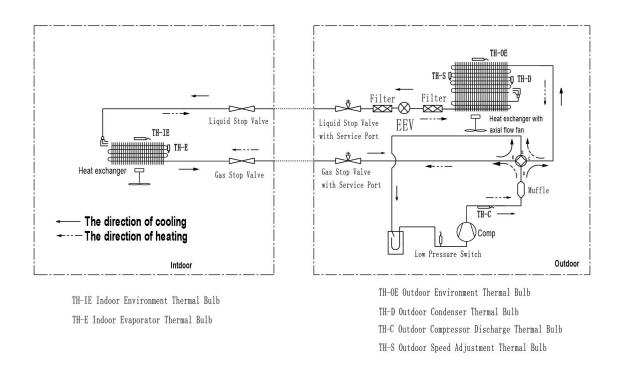


#### NOTICE:

Check the above items and adopt the corresponding corrective measures. If the air conditioner continues to function poorly, please stop the air conditioner immediately and contact Sinclair's authorized local service center. Ask our professional service staff to checkand repair the unit.

# 4. Maintenance

# 4.1 System Diagram



# 4.2 Connection Pipe Vacuum Pumping



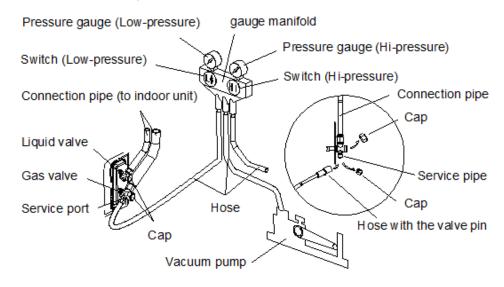
Make sure the outlet of vacuum pump is away from fire source and is well-ventilated.

- (1) Remove the caps of the liquid valve, gas valve and also the service port.
- (2) Connect the hose at the low pressure side of the manifold valve assembly to the service port of the unit's gas valve, and meanwhile the gas and liquid valves should be kept closed in case of refrigerant leak.
- (3) Connect the hose used for evacuation to the vacuum pump.
- (4) Open the switch at the lower pressure side of the manifold valve assembly and start the vacuum pump. Meanwhile, the switch at the high pressure side of the manifold valve assembly should be kept closed, otherwise evacuation would fail.
- (5) The evacuation duration depends on the unit's capacity, generally.

Model	Time(min)
ASGE-12BI	15
ASGE-18BI	20
ASGE-24BI, ASGE-30BI, ASGE-36BI, ASGE-36BI-3	30
ASGE-42BI-3, ASGE-48BI-3, ASGE-60BI-3	45

And verify if the pressure gauge at the low pressure side of the manifold valve assembly reads -1.0Mp (-75cmHg), if not, it indicates there is leak somewhere. Then, close the switch fully and then stop the vacuum pump.

- (6) Wait for 10min to see if the system pressure can remain unchanged. During this time, the reading of the pressure gauge at the low pressure side can not be larger than 0.005Mp (0.38cmHg).
- (7) Slightly open the liquid valve and let some refrigerant go to the connection pipe to balance the pressure inside and outside of the connection pipe, so that air will not come into the connection pipe when removing the hose. Notice that the gas and liquid valve can be opened fully only after the manifold valve assembly is removed.
- (8) Place back the caps of the liquid valve, gas valve and also the service port.





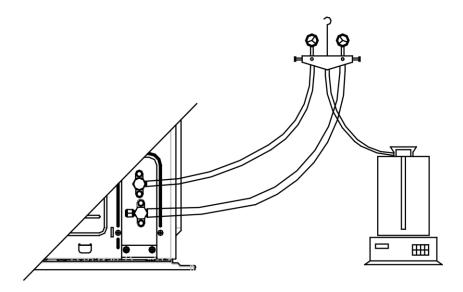
For large-size units, there are maintenance ports for liquid valve and gas valve. During evacuation, you may connect the two hoses of the branch valve assembly to the maintenance ports to speed up the evacuation.

Refrigerant should be reclaimed into the appropriate storage tank. System should use oxygen-free nitrogen purging to ensure safety. This process may need to repeat several times. Do not use compressed air or oxygen in this process.

# 4.3 Refrigerant Charging

Pre-charging

- Step 1: Connect the high pressure gauge line to the valve of liquid pipe and connect the low pressure gauge line to the valve of gas pipe. Connect the middle gauge line to the vacuum pump. Power on the vacuum pump and perform vacuum drying.
- Step 2: After vacuum drying, close the high and low pressure gauge valves. Then remove the middle gauge line from the connector of vacuum pump. Then connect to the refrigerant tank.
- Step 3: Loosen the middle gauge line from the connector of pressure gauge to a proper extent and slightly open the valve of refrigerant tank. Evacuate the middle gauge line. Then tighten up the connector again and completely open the valve of refrigerant tank at the same time.
  - Step 4: Keep the refrigerant tank erect and put it on an electronic scale. Record the current weight as m1.



Step 5: Open the high pressure gauge valve (Keep the low pressure gauge valve closed). Then charge refrigerant into the system. Meanwhile, record the weight of refrigerant tank as m2.

Step 6: m1-m2=m. If m equals to the required charging quantity M, close the valve of refrigerant tank at once. Then move to step 8.

Step 7: If you can't continue to charge refrigerant into the system and the quantity of charged refrigerant is less than the required charging quantity, then record the current quantity of charged refrigerant:

m=m1-m2

m`=M-m

The remaining charging quantity is: m`=M-m

Step 8: After charging, remove the pressure gauge.

## Refrigerant charging when unit is turned on:

Step 1: Close the valve of refrigerant tank. First remove the pressure gauge lines and connect the outdoor unit to the indoor unit. Then reconnect the pressure gauge lines. Connect the low pressure gauge line to the other joint of gas valve and connect the high pressure gauge line to the liquid valve. Connect the middle gauge line to the vacuum pump. Power on the vacuum pump and perform vacuum drying.

- Step 2: After vacuum drying, close the high and low pressure gauge valves. Then remove the middle gauge line from the connector of vacuum pump. Then connect to the refrigerant tank.
- Step 3: Loosen the middle gauge line from the connector of pressure gauge to a proper extent and slightly open the valve of refrigerant tank. Evacuate the middle gauge line. Then tighten up the connector again and completely open the valve of refrigerant tank at the same time.
  - Step 4: Turn on the air conditioner and let it run for a while.
- Step 5: Open the low pressure gauge valve (Keep the high pressure gauge valve closed). Then charge in the remaining charging quantity m`.
  - Step 6: After all required refrigerant is charged in, close the valve of refrigerant tank.
  - Step 7: Remove the pressure gauge to finish the refrigerant charging work.

#### Procedure of refrigerant charging

Following is the supplementary requirement for refrigerant charging on the basis of normal procedure:

- 1) Make sure that when charging refrigerant into the system, no other types of refrigerant will be mixed. The pipeline for refrigerant charging should be as short as possible to reduce the amount of refrigerant left in it.
  - 2) The refrigerant tank should stand erect.
  - 3) Make sure the refrigerating system is already grounded before refrigerant charging.
  - 4) When charging is completed (or not yet completed), stick a label on the system.
- 5) Before re-charging refrigerant into the system, use oxygen-free nitrogen to perform pressure test. When charging is completed, perform leak test before trial running. Before leaving the workplace, perform a leak test again.

# 4.4 Maintenance of Major Components

# 4.5 Removal of Major Components

# 4.5.1 Removal of ODU Major Components

Picture	Name	Function
	Compressor	Through compression, the low pressure refrigerant occupies a less space.  As its pressure and temperature both rise, it becomes high pressure and high temperature refrigerant. It is the power drive of the system.
	4-way valve	It is used to change directions, the flow of refrigerant in cooling/heating.
	Motor	The power drive of the fan. It enables the fan to run so as to provide smooth currents of air for forced convection and heat exchange of condenser and evaporator.
	Fan	It is used to provide smooth currents of air for forced convection and heat exchange of condenser and evaporator.

Picture	Name	Function
	Gas liquid separator	Installed at the suction side of compressor, it can separate the liquefied refrigerant from the gaseous refrigerant to make sure that only gaseous refrigerant will be sucked into the compressor. If liquefied refrigerant gets inside the compressor, ineffective compressor or slugging phenomenon will occur.
	Condenser	It is used to transfer partial heat of the hot flow to the cold flow so that the flow temperature can reach the specified index. It is an energy exchanging device.
	Electronic expansion valve	It is used to lower the pressure and temperature of liquefied refrigerant and adjust the flow of refrigerant entering the evaporator.

Model: ASGE-12BI, ASGE-18BI, ASGE-24BI, ASGE-30BI

Removal of front panel			
Note: Before removing the front panel, make sure power is cut off.			
Step	Picture	Work instruction	
1.Remove the upper cover plate.		•Unscrew the screws of the upper cover plate with a screwdriver.	
2. Remove the front grill.		•Unscrew the screws of the front grill with a screwdriver.	

Removal of front panel			
Note: Before removing the front panel, make sure power is cut off.			
Step	Picture	Work instruction	
3. Remove the front side plate.		•Unscrew the screws of the front side plate with a screwdriver.	
4. Remove the front panel.		•Unscrew the screws that connect the front panel to the middle insulating board and screws around the front panel.	
5. Remove the right side plate.		•Unscrew the screws that connect the right side plate to the electric box and the screws around the right side plate.	
6. Install the right side plate		•Screw up the screws around the right side plate. Be careful to handle well the clasps at the bottom of the right side plate.	
7. Install the front panel.		•Install the front panel by mounting on 6 clasps on its both sides. Please note that there is one screw on the lower right side.	

Removal of front panel		
Note: Before removing the front panel, make sure power is cut off.		
Step	Picture	Work instruction
8. Install the grill.		•Attach the grill back in place and tighten up the screws.
9. Install the front side plate.		•Tighten up the screws around the front side plate.
10. Install the upper cover plate.		•Tighten up the screws around the upper cover plate.

Model: ASGE-12BI, ASGE-18BI, ASGE-24BI, ASGE-30BI

Removal of compressor			
Note: Before removing the compressor, make sure there is no refrigerant in the pipeline and power is cut off.			
Step	Picture	Work instruction	
1. Remove wires.		<ul> <li>Loosen the securing screws of the wires with a screwdriver.</li> <li>Remove the wires.</li> <li>Note: When removing the wires, mark the wire terminals corresponding to their color so as to avoid misconnection.</li> </ul>	

Removal of compressor			
Note: Before removing the compressor, make sure there is no refrigerant in the pipeline and power is cut off.			
Step	Picture	Work instruction	
2. Loosen the securing screws at the foot of compressor.	screws	•Use a wrench to twist off the screws at the foot of compressor.	
3. Break off the pipes that connecting to the compressor.	Welding interface	●Weld the pipes that are connected to the compressor.  ●Then remove the pipes.  Note: When welding the pipes, do not let the flame burn the other components.	
4. Remove the compressor from the chassis.		•Take out the compressor and replace it.  Note: When replacing the compressor, avoid touching the nearby pipeline and components.	
5. Fix the new compressor back onto the chassis.	screws	•After replacing the compressor, tighten up the screws at the foot of compressor.	

Removal of compressor			
Note: Before removing the compressor, make sure there is no refrigerant in the pipeline and power is cut off.			
Step	Picture	Work instruction	
6. Connect the compressor suction port and exhause port with the pipes.	Welding interface	Weld the compressor connection pipes and connect them to the compressor.  Note: When replacing the compressor, avoid touching the nearby pipeline and components.	
7. Connect the compressor wires.		Connect the compressor wires to the wire terminals on the top of compressor.  Note: When connecting the wires, be sure to match the colors with the corresponding wire terminals.	

Model: ASGE-12BI, ASGE-18BI, ASGE-24BI, ASGE-30BI

	Removal of 4-way valve	
Note: Before removing the 4-way va	lve, make sure refrigerant is fully discharged from the uni	t and power is cut off.
Step	Picture	Work instruction
Take off the electromagnetic coil of the 4-way valve.	Electromagnetic coil	Carefully unscrew the screws of electromagnetic coil with a screwdriver.

Removal of 4-way valve		
Note: Before removing the 4-way valve, make sure refrigerant is fully discharged from the unit and power is cut off.		
Step	Picture	Work instruction
2. Break off the connection pipes from the 4-way valve.	Welding interface	•Use a soldering gun to loosen the 4 joints on the 4-way valve and then remove the connection pipes.  Note: When welding the pipes, the 4-way valve should be wrapped with wet cloth for cooling. Do not let the flame burn the other components.
3. Replace the 4-way valve and connect it to the connection pipes.		●Replace the 4-way valve and then use a soldering gun to weld the 4 joints of the 4-way valve.  ●Tighten up the screws of electromagnetic coil with a screwdriver.  Note: When welding the pipes, the 4-way valve should be wrapped with wet cloth for cooling. Do not let the flame burn the other components.

Model: ASGE-12BI, ASGE-18BI, ASGE-24BI, ASGE-30BI

Removal of fan and motor		
Note: Before removing the fan, make sure power is cut off.		
Step	Picture	Work instruction
1. Remove the grill.		•Use a screwdriver to unscrew the two screws on the upper left and lower right corners.

	Removal of fan and motor	
Note: Before removing the fan, make sure power is cut off.		
Step	Picture	Work instruction
2. Remove the fan.		•Use a wrench to remove the specialized nut and gasket of the fan.  Note: Please keep the nut and gasket safe after removing them from the fan.
3. Remove motor.	SCTEWS	•Use a screwdriver to unscrew the bolt of motor.  Note: Motor wire should be first removed from the electric box.
4. Install the motor.	SCTEWS	•Replace with a new motor. Then tighten up the screw bolt.
5. Install the fan.		•Install the fan in place. Put on the gasket and use a wrench to secure the screw nut.  Note: After installing the fan, turn the fan by hand to see if it can run normally. If not, please check for the reason.
6. Install the grill.		•After replacing the motor, use a screwdriver to tighten up the screw bolt that secures the motor.

Removal of condenser		
	Note: Before removing the condenser, make sure there is no refrigerant in the pipeline and power is cut off.	
Step	Picture	Work instruction
1. Remove the panels.		●Remove the upper, lower and front panels.
2. Remove the electric box.		<ul> <li>Loosen the wire clamp at the bottom of the electric box.</li> <li>Unscrew the screws of electric box.</li> <li>The connection wires inside and outside the electric box should be removed.</li> </ul>
3. Remove motor support.		•When removing the motor support, be careful to protect the components.
4. Remove the condenser.		•Heat up the welding points of connection pipes through gas welding until the pipes break off. Note: When welding the pipes, do not let the flame burn the other components. The welding points of condenser are steel and copper welding points. Be sure to maintain the welding quality.

Removal of condenser		
Note: Before removing the condenser, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction
5. Take out the condenser.		•Loosen the securing screws of condenser support. Take off the plate type heat exchanger and the support as a whole.
6. Install the new condenser.		●Secure the screws of condenser and support. Then fix them together on the chassis.  •Install the condenser by referring to the positions of entering and leaving pipes. Weld the connection pipes.  •Nitrogen welding: the pressure of nitrogen is 0.5±0.1kgf/ c m² (relative pressure). Note: When welding the pipes, do not let the flame burn the other components.
7. Secure the electric box and arrange the wires according to the requirement.		<ul> <li>Put the electric box in place and tighten up the screws of electric box.</li> <li>Arrange and secure the wires as original.</li> </ul>
8. Check and open the upper and side panels.		<ul> <li>Check whether each component and connection wire is well connected.</li> <li>If everything is OK, place back the upper, left and right side panels.</li> </ul>

Removal of electronic expansion valve		
Note: Before removing the electronic expansion valve, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction
Loosen the wire clamp at the bottom of the electric box and the screws of electric box.		<ul> <li>Remove the upper, lower and front panels.</li> <li>Loosen the wire clamp at the bottom of the electric box.</li> <li>Unscrew the screws of electric box.</li> </ul>
2. Remove the electric box.		<ul> <li>The connection wires inside and outside the electric box should be removed.</li> <li>When removing the electric box, be careful to protect the components.</li> </ul>
3. Remove the electronic expansion valve.		●Take off the coil of electronic expansion valve.  ●Loosen the connection pipe of electronic expansion valve by welding. Then remove the connection pipe.  Note: When welding the pipe, do not let the flame bunt the other components.
4. Take out the electronic expansion valve.		●Take out the electronic expansion valve

Removal of electronic expansion valve		
Note: Before removing the electronic expansion valve, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction
5. Install the new electronic expansion valve.		•Weld the connection pipe of electronic expansion valve.     •When welding the electronic expansion valve, the valve should be wrapped with wet cloth.     •Nitrogen welding: the pressure of nitrogen is 0.5±0.1kgf/ c m² (relative pressure). Note: When welding the pipes, do not let the flame burn the other components.     •Install the coil of electronic expansion valve.
6. Secure the electric box and arrange the wires as required.		<ul><li>Put the electric box back in place and tighten up the screws.</li><li>Arrange the wires as original.</li></ul>
7. Check and install the panels.		<ul> <li>Check whether each component and connection wire is well connected.</li> <li>If everything is OK, install the upper, left and right panels. Tighten up the screws.</li> </ul>

Removal of front panel		
Note: Before removing the front panel, make sure power is cut off.		
Step	Picture	Work instruction
Remove the upper cover plate.		•Unscrew the screws of the upper cover plate with a screwdriver.
2. Remove the front side plate.		•Unscrew the screws of the upper and front side plate with a screwdriver.
3. Remove the front grill.		•Unscrew the screws of the front grill with a screwdriver.
4. Remove the front panel.		•Unscrew the screws that connect the front panel to the middle insulating board and screws around the front panel.

Removal of front panel		
Note: Before removing the front panel, make sure power is cut off.		
Step	Picture	Work instruction
5. Remove the right side plate.		•Unscrew the screws that connect the right side plate to the electric box and the screws around the right side plate.
6. Install the right side plate		•Screw up the screws around the right side plate. Be careful to handle well the clasps at the bottom of the right side plate.
7. Install the front panel.		•Install the front panel by mounting on 6 clasps on its both sides. Please note that there is one screw on the lower right side.
8. Install the grill.		Attach the grill back in place and tighten up the screws.

Removal of front panel		
Note: Before removing the front panel, make sure power is cut off.		
Step	Picture	Work instruction
9. Install the front side plate.		•Fix the clasps on both sides of the plate and tighten up the screws.
10. Install the upper cover plate.		●Tighten up the screws around the upper cover plate.

Model: ASGE-36BI, ASGE-36BI-3, ASGE-42BI-3, ASGE-48BI-3

Removal of compressor/gas liquid separator		
Note: Before removing the compress	sor/gas liquid separator, make sure there is no refrigerar	nt in the pipeline and power is cut off.
Step	Picture	Work instruction
1. Remove wires.	power terminals	<ul> <li>Loosen the securing screws of the wires with a screwdriver.</li> <li>Remove the wires.</li> <li>Note: When removing the wires, mark the wire terminals corresponding to their color so as to avoid misconnection.</li> </ul>

Removal of compressor/gas liquid separator		
Note: Before removing the compressor/gas liquid separator, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction
2 Break off the pipes that connecting to the compressor/gas liquid separator.	Pipe welding interface	Weld the pipes that are connected to the compressor/gas liquid separator.     Then remove the pipes. Note: When welding the pipes, do not let the flame burn the other components.
3. Loosen the compressor's base connectors / gas liquid separator's base nuts.	screws	•Use a wrench to twist off the compressor/gas liquid separator's base nuts.
Remove the compressor/gas liquid separator from the chassis.		•Take away the compressor/gas liquid separator and replace with a new one.  Note: When replacing the compressor/gas liquid separator, avoid touching the nearby pipeline and components.

Removal of compressor/gas liquid separator		
Note: Before removing the compressor/gas liquid separator, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction
5. Install the new compressor/gas liquid separator onto the chassis.	screws	After replacing the compressor/gas liquid separator, tighten up the base screw nuts.
6. Connect the welding interfaces of compressor/gas liquid separator to the pipeline.	Pipe welding interface	•Weld the connection pipes of compressor so as to connect them to the compressor.  Note: When replacing the compressor, avoid touching the nearby pipeline and components.
7. Connect the compressor wires.	power terminals	Connect the compressor wires to the wire terminals on the top of compressor.  Note: When connecting the wires, be sure to match the colors with the corresponding wire terminals.

Model: ASGE-36BI, ASGE-36BI-3, ASGE-42BI-3, ASGE-48BI-3

Removal of 4-way valve		
Note: Before removing the 4-way valve, make sure refrigerant is fully discharged from the unit and power is cut off.		
Step	Picture	Work instruction
1. Take off the coil of the 4-way valve.	screw	Carefully unscrew the screws of electromagnetic coil with a screwdriver.
2.Break off the connection pipes from the 4-way valve.	Four-way valve Welding interface	•Use a soldering gun to loosen the 4 joints on the 4-way valve and then remove the connection pipes.  Note: When welding the pipes, the 4-way valve should be wrapped with wet cloth for cooling. Do not let the flame burn the other components.
3. Replace the 4-way valve and connect it to the connection pipes.	Four-way valve Welding interface	•Replace the 4-way valve and then use a soldering gun to weld the 4 joints of the 4-way valve.  Note: When welding the pipes, the 4-way valve should be wrapped with wet cloth for cooling. Do not let the flame burn the other components.

Removal of 4-way valve		
Note: Before removing the 4-	way valve, make sure refrigerant is fully discharged from	the unit and power is cut off.
Step	Picture	Work instruction
4. Install the coil of 4-way valve.	screw	•Tighten the screws of the coil of 4-way valve with a screwdriver.

# Model: ASGE-36BI, ASGE-36BI-3, ASGE-42BI-3, ASGE-48BI-3

Removal of fan and motor		
Note: Before removing the fan, make sure power is cut off.		
Step	Picture	Work instruction
1. Remove the grill.		•Use a screwdriver to unscrew the two screws on the upper left and lower right corners.
2. Remove the fan.		•Use a wrench to remove the specialized nut and gasket of the fan.  Note: Please keep the nut and gasket safe after removing them from the fan.

Removal of fan and motor		
Note: Before removing the fan, make sure power is cut off.		
Step	Picture	Work instruction
3. Remove motor.	screws	Use a screwdriver to unscrew the bolt of motor.  Note: Motor wire should be first removed from the electric box.
4. Install the motor.	screws	●Replace with a new motor. Then tighten up the screw bolt.
5. Install the fan.		•Install the fan in place. Put on the gasket and use a wrench to secure the screw nut.  Note: After installing the fan, turn the fan by hand to see if it can run normally. If not, please check for the reason.
6. Install the grill.		•After replacing the motor, use a screwdriver to tighten up the screw bolt that secures the motor. Arrange the wires according to the wiring diagram.

Model: ASGE-36BI, ASGE-36BI-3, ASGE-42BI-3, ASGE-48BI-3

Removal of condenser		
Note: Before removing the condenser, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction
1. Remove the panels.		●Remove the upper, lower and front panels.
2. Remove the electric box.		<ul> <li>Loosen the wire clamp at the bottom of the electric box.</li> <li>Unscrew the screws of electric box.</li> <li>The connection wires inside and outside the electric box should be removed.</li> </ul>
3. Remove motor support.		•When removing the motor support, be careful to protect the components.
4. Remove the condenser.	Welding interface	•Heat up the welding points of connection pipes through gas welding until the pipes break off.  Note: When welding the pipes, do not let the flame burn the other components. The welding points of condenser are steel and copper welding points. Be sure to maintain the welding quality.

Removal of condenser  Note: Before removing the condenser, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction
5. Take out the condenser.		•Loosen the securing screws of condenser support. Take off the plate type heat exchanger and the support as a whole.
6. Install the new condenser.	Welding interface	●Secure the screws of condenser and support. Then fix them together on the chassis.  •Install the condenser by referring to the positions of entering and leaving pipes. Weld the connection pipes.  •Nitrogen welding: the pressure of nitrogen is 0.5±0.1kgf/ c m² (relative pressure). Note: When welding the pipes, do not let the flame burn the other components.
7. Secure the electric box and arrange the wires according to the requirement.		<ul> <li>Put the electric box in place and tighten up the screws of electric box.</li> <li>Arrange and secure the wires as original.</li> </ul>
8. Check and open the upper and side panels.		Check whether each component and connection wire is well connected.  If everything is OK, place back the upper, left and right side panels.

Model: ASGE-36BI, ASGE-36BI-3, ASGE-42BI-3, ASGE-48BI-3

Removal of electronic expansion valve			
Note: Before removing the electronic expansion valve, make sure there is no refrigerant in the pipeline and power is cut off.			
Step	Picture	Work instruction	
1. Remove the electric box.		<ul> <li>◆Remove the upper, lower and front panels.</li> <li>◆Loosen the wire clamp at the bottom of the electric box</li> <li>◆Unscrew the screws of electric box.</li> <li>◆The connection wires inside and outside the electric box should be removed.</li> <li>◆When removing the electric box, be careful to protect the components.</li> </ul>	
2. Remove the fixed block.		•Remove the fixed block between the electronic expansion valve and the pipe.	
3. Remove the electronic expansion valve.	Welding interface	<ul> <li>Take off the coil of electronic expansion valve.</li> <li>Loosen the connection pipe of electronic expansion valve by welding. Then remove the connection pipe.</li> <li>Note: When welding the pipe, do not let the flame bunt the other components.</li> </ul>	

Removal of electronic expansion valve		
Note: Before removing the electronic expansion valve, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction
4. Take out the electronic expansion valve.		●Take out the electronic expansion valve.
5. Install the new electronic expansion valve.	Welding interface	●Weld the connection pipe of electronic expansion valve.  ●When welding the electronic expansion valve, the valve should be wrapped with wet cloth.  ●Nitrogen welding: the pressure of nitrogen is 0.5±0.1kgf/ c m² (relative pressure). Note: When welding the pipes, do not let the flame burn the other components.  ●Install the coil of electronic expansion valve.
6. Secure the electric box and arrange the wires as required.		<ul> <li>Put the electric box back in place and tighten up the screws.</li> <li>Arrange the wires as original.</li> </ul>

Removal of electronic expansion valve		
Note: Before removing the electro	nic expansion valve, make sure there is no refriger	ant in the pipeline and power is cut off.
Step	Picture	Work instruction
7. Check and open the upper and front panels.		<ul> <li>◆Check whether each component and connection wire is well connected.</li> <li>◆If everything is OK, install the upper, left and right panels. Tighten up the screws.</li> </ul>

Removal of front panel		
Note: Before removing the front panel, make sure power is cut off.		
Step	Picture	Work instruction
Remove the upper cover plate.		•Unscrew the screws of the upper cover plate with a screwdriver.
2. Remove the front grill.		•Unscrew the screws of the front grill with a screwdriver.

Removal of front panel		
Note: Before removing the front panel, make sure power is cut off.		
Step	Picture	Work instruction
3. Remove the front panel.		•Unscrew the screws that connect the front panel to the middle insulating board and screws around the front panel.
4. Remove the right side plate.		•Unscrew the screws that connect the right side plate to the electric box and the screws around the right side plate.
5. Install the right side plate		•Screw up the screws around the right side plate. Be careful to handle well the clasps at the bottom of the right side plate.
6. Install the front panel.		•Install the front panel by mounting on 6 clasps on its both sides. Please note that there is one screw on the lower right side.

Removal of front panel		
Note: Before removing the front panel, make sure power is cut off.		
Step	Picture	Work instruction
7. Install the grill.		•Attach the grill back in place and tighten up the screws.
8. Install the upper cover plate.		•Tighten up the screws around the upper cover plate.

Disassembly of compressor			
Note: Before removing the compresso	Note: Before removing the compressor, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction	
1. Remove wires.		<ul> <li>◆Loosen the securing screws of the wires with a screwdriver.</li> <li>◆Remove the wires.</li> <li>Note: When removing the wires, mark the wire terminals corresponding to their color so as to avoid misconnection.</li> </ul>	

Disassembly of compressor		
Note: Before removing the compressor, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction
Loosen the securing screws at the foot of compressor.	Loosen the screws	•Use a wrench to twist off the screw nuts at the foot of compressor.
3. Break off the pipes that connecting to the compressor.	Welding interface	<ul> <li>Weld the pipes that are connected to the compressor.</li> <li>Then remove the pipes.</li> <li>Note: When welding the pipes, do not let the flame burn the other components.</li> </ul>
Remove the compressor from the chassis.		●Take out the compressor and replace it.  Note: When replacing the compressor, avoid touching the nearby pipeline and components.

Disassembly of compressor		
Note: Before removing the compressor, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction
5. Fix the new compressor back onto the chassis.	Tighten the screws	•After replacing the compressor, tighten up the screws at the foot of compressor.
6. Connect the compressor suction port and exhause port with the pipes.	Welding	Weld the compressor connection pipes and connect them to the compressor.  Note: When replacing the compressor, avoid touching the nearby pipeline and components.
7. Connect the compressor wires.		•Connect the compressor wires to the wire terminals on the top of compressor.  Note: When connecting the wires, be sure to match the colors with the corresponding wire terminals.

Removal of 4-way valve		
Note: Before removing the 4-way valve, make sure refrigerant is fully discharged from the unit and power is cut off.		
Step	Picture	Work instruction
1. Take off the coil of the 4-way valve.	Loosen the screws	Carefully unscrew the screws of electromagnetic coil with a screwdriver.
Break off the connection pipes from the 4-way valve.	Welding interface	Use a soldering gun to loosen the 4 joints on the 4-way valve and then remove the connection pipes.  Note: When welding the pipes, the 4-way valve should be wrapped with wet cloth for cooling. Do not let the flame burn the other components.
3. Replace the 4-way valve and connect it to the connection pipes.	Welding interface	Replace the 4-way valve and then use a soldering gun to weld the 4 joints of the 4-way valve.  Note: When welding the pipes, the 4-way valve should be wrapped with wet cloth for cooling. Do not let the flame burn the other components.

Removal of 4-way valve		
Note: Before removing the 4-	way valve, make sure refrigerant is fully discharged from	the unit and power is cut off.
Step	Picture	Work instruction
4. Install the coil of 4-way valve.	Tighten the screws	•Tighten the screws of the coil of 4-way valve with a screwdriver.

Removal of fan and motor		
Note: Before removing the fan, make sure power is cut off.		
Step	Picture	Work instruction
1.Remove the grill.		•Use a screwdriver to unscrew the two screws on the upper left and lower right corners.
2. Remove the fan.		•Use a wrench to remove the specialized nut and gasket of the fan.  Note: Please keep the nut and gasket safe after removing them from the fan.

Removal of fan and motor		
Note: Before removing the fan, make sure power is cut off.		
Step	Picture	Work instruction
3. Remove motor.	Loosen the screws	Use a screwdriver to unscrew the bolt of motor.  Note: Motor wire should be first removed from the electric box.
4. Install the motor.	Tighten the screws	•Replace with a new motor. Then tighten up the screw bolt.
5. Install the fan.	Tighten the screws	•Install the fan in place. Put on the gasket and use a wrench to secure the screw nut.  Note: After installing the fan, turn the fan by hand to see if it can run normally. If not, please check for the reason.
6. Install the grill.		•After replacing the motor, use a screwdriver to tighten up the screw bolt that secures the motor.

Removal of gas liquid separator		
Note: Before removing the gas liquid separator, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction
1. Loosen the wire clamp at the bottom of the electric box and the screws of electric box.		<ul> <li>Remove the upper, lower and front panels.</li> <li>Loosen the wire clamp at the bottom of the electric box.</li> <li>Unscrew the screws of electric box.</li> </ul>
2. Remove the electric box.		<ul> <li>The connection wires inside and outside the electric box should be removed.</li> <li>When removing the electric box, be careful to protect the components.</li> </ul>
4. Remove the compressor/gas liquid separator from the chassis.	Welding interface	•Take away the compressor/gas liquid separator and replace with a new one.  Note: When replacing the compressor/gas liquid separator, avoid touching the nearby pipeline and components.
4. Install the new gas liquid separator	Welding interface	<ul> <li>Install the gas liquid separator by referring to the positions of entering and leaving pipes. Weld the 2 welding interfaces.</li> <li>Nitrogen welding: the pressure of nitrogen is 0.5±0.1kgf/ c m² (relative pressure). Note: When welding the pipes, do not let the flame burn the other components.</li> <li>Tighten the screws of gas liquid separator.</li> </ul>

Removal of gas liquid separator		
Note: Before removing the gas liquid separator, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction
5. Secure the electric box and arrange the wires as required.		Put the electric box back in place and tighten up the screws.  Arrange the wires as original.
6.Check and open the upper and side panels.		<ul> <li>Check whether each component and connection wire is well connected.</li> <li>If everything is OK, install the upper, left and right panels.</li> <li>Tighten up the screws.</li> </ul>

Model: ASGE-60BI-3		
	Removal of electronic expansion valve	
Note: Before removing the electron	onic expansion valve, make sure there is no refrigerant i	n the pipeline and power is cut off.
Step	Picture	Work instruction
Loosen the wire clamp at the bottom of the electric box and the screws of electric box.		<ul> <li>Remove the upper, lower and front panels.</li> <li>Loosen the wire clamp at the bottom of the electric box.</li> <li>Unscrew the screws of electric box.</li> </ul>

Removal of electronic expansion valve		
Note: Before removing the electronic expansion valve, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction
2. Remove the electric box.		<ul> <li>The connection wires inside and outside the electric box should be removed.</li> <li>When removing the electric box, be careful to protect the components.</li> </ul>
3. Remove the electronic expansion valve.	Welding interface	●Take off the coil of electronic expansion valve.  ●Loosen the connection pipe of electronic expansion valve by welding. Then remove the connection pipe.  Note: When welding the pipe, do not let the flame bunt the other components.
4. Take out the electronic expansion valve.		•Take out the electronic expansion valve.

Removal of electronic expansion valve		
Note: Before removing the electronic expansion valve, make sure there is no refrigerant in the pipeline and power is cut off.		
Step	Picture	Work instruction
5. Install the new electronic expansion valve.	Welding interface	●Weld the connection pipe of electronic expansion valve.  ●When welding the electronic expansion valve, the valve should be wrapped with wet cloth.  ●Nitrogen welding: the pressure of nitrogen is 0.5±0.1kgf/ c m² (relative pressure). Note: When welding the pipes, do not let the flame burn the other components.  ●Install the coil of electronic expansion valve.
6. Secure the electric box and arrange the wires as required.		<ul> <li>Put the electric box back in place and tighten up the screws.</li> <li>Arrange the wires as original.</li> </ul>
7. Check and open the upper and side panels.		●Check whether each component and connection wire is well connected.  ●If everything is OK, install the upper, left and right panels. Tighten up the screws.

# **4.5.2 Removal of IDU Major Components**

# 4.5.2.1 Cassette Type Unit

Removal of fan and motor		
Note: Before removing the motor, power must be cut off.		
Step	Picture	Work instruction
	Loosen the screws	<ul> <li>Turn off the power supply of indoor unit.</li> <li>Push the 4 corner plates in the directions shown by the arrows.</li> <li>Loosen the screws and remove the front panel.</li> </ul>
1. Remove the front panel.		
2. Remove the cover of electric box and the clamp of power cord.	0.0	•Remove the motor wire and water pump of the electric box.
4. Remove the water tray.	Loosen the screws	•Loosen the screws in the 4 corners and then remove the water tray.

Removal of fan and motor		
Note: Before removing the motor, power must be cut off.		
Step	Picture	Work instruction
5. Remove the fan.	Bolts	•Use a screwdriver to remove the clamping band of motor. Then remove the fan.
6. Remove motor.	Coosen the screws	•Use a screwdriver to unscrew the 4 screws of motor. Then remove the motor.
7. Replace and install the motor.	Tighten the screws	<ul> <li>Remove the motor from motor support and then replace with a new motor.</li> <li>Tighten the 4 screws of motor with a screwdriver.</li> </ul>
8. Install the fan.	Tighten the bolt Tighten the screws	<ul> <li>Direct the hole of fan to the motor shaft and then mount on the fan.</li> <li>Tighten the clamping band of motor with a wrench.</li> </ul>

Removal of fan and motor		
Note: Before removing the motor, power must be cut off.		
Step	Picture	Work instruction
9. Install the water tray.	Tighten the screws	<ul> <li>Direct the 4 corners of water tray to the 4 corners of the unit and then press them. Use a screwdriver to tighten the screws in the 4 corners.</li> <li>Connect the power cord and water pump wire.</li> <li>Place back the cover of electric box and the clamp of power cord. Then tighten the screws with a screwdriver.</li> </ul>

Removal and installation of drain pump		
Step	Picture	Work instruction
After removing the front panel as instructed above, loosen the screws of the water tray.	Loosen the screws	•Use a screwdriver to loosen the screws of water tray.
2. Remove the cover of electric box and the clamp of power cord.		•Twist off the screws and open the cover of electric box and the clamp of power cord.
3. Remove the motor wire and water pump wire.	Motor wiring port  Pump wiring port	•Remove the motor wire and water pump wire in the electric box.

Removal and installation of drain pump		
Step	Picture	Work instruction
2. Remove the water tray.	Loosen the screws	•Loosen the screws in the 4 corners and then remove the water tray.
3. Remove the drain pipe and loosen the screws of water pump.	Screws	•Take out the drain pipe and use a screwdriver to loosen the screws of water pump.
4. Remove and replace the pump.	Pump	•Remove the pump and replace with a new one.
5. Connect the drain pipe and tighten the screws of water pump.	Drain Pipe	•Connect the drain pipe and tighten the screws of water pump.
6. Install the water tray and tighten the screws.	Tighten the screws	•Direct the 4 corners of the water tray to the 4 corners of the unit and press them. Then use a screwdriver to tighten the screws.

Removal and installation of drain pump			
Step	Picture	Work instruction	
7. Connect the water pump wire and power cord, and then put back the cover of electric box and the clamp of power cord.		<ul> <li>Connect the water pump wire and motor wire according to the wiring diagram.</li> <li>Put back the cover of electric box and the clamp of power cord. Then tighten the screws.</li> </ul>	

# 4.5.2.2 Duct Type Unit

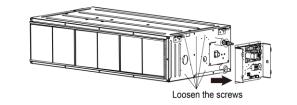
Removal of fan and motor			
	Note: Before removing the motor, make sure power is cut off.		
Step	Picture	Work instruction	
Remove the cover of electric box.		•Turn off the power supply of indoor unit. Use a screwdriver to remove the cover of electric box. Disconnect the motor wire inside the electric box.	
2. Remove air return plate, the longitudinal component and air return frame.		Use a hex wrench to loosen the screws of fan.     Order of removal: air return plate, air return frame, longitudinal component, cross beam	
3. Remove the upper volute.	Loosen the screws	•Loosen the screws of upper volute and then pull out the upper volute.	
4. Remove the lower volute.		•Loosen the screws of lower volute and then rotate in the direction shown by the arrow.	

Removal of fan and motor			
Note: Before removing the motor, make sure power is cut off.			
Step	ep Picture Work instruction		
5. Remove the motor and fan.		•Use a screwdriver to remove the clamping band of motor. Then remove the motor and fan as a whole.	
6. Replace the motor.		<ul> <li>Remove the motor from the motor support.</li> <li>Use a hex wrench to loosen the screws of fan.</li> <li>Remove the fan from the motor.</li> <li>Replace with a new motor.</li> </ul>	
7. Re-install the device in a reverse order of the removal procedure.		Re-install the device in a reverse order of the removal procedure.  Then connect power and test it.	

	Removal of air return filter			
Note: Before removal, ma	Note: Before removal, make sure power is cut off. During the removal procedure, take good care of all the components. Do not place			
the filter near any heat so	ource.			
Step	Step Picture Work instruction			
Remove air return filter.		•Press the air return filters on the guide way sponge. There are 2 or 3 air return filters.		

	Removal of the cover of electric box and the electric box		
Note: Before removal, ma	ke sure power is cut off. During the removal procedure, take good co	are of all the components, especially the	
electric components. Do n	ot hit or beat.		
Step	Step Picture Work instruction		
Remove the cover of electric box.	Loosen the screws	•Loosen the screws as shown by the circle and the box. Remove the box in the direction shown by the arrow.	

2. Remove the electric box.



•Loosen the securing screws and remove the electric box.

	Removal of water tray		
Note: Before removal, make sure power is cut off. During the removal procedure, take good care of all the components.			
Step	Picture	Work instruction	
1.Remove the cover plate.		•Loosen the screws of cover plate and then remove the cover plate. (As shown in the picture, the circle indicates 6 screws of the cover plate.)	
2. Remove the water tray.		•Loosen the screws of water trap. Pull it up and remove it. The removed water tray is as shown in the picture.	

Removal of evaporator			
Note: Make sure power is cut off. Take good care of the copper pipe and aluminum fins. If the removal takes a long			
time, please put the copper pipe under pressure.			
Step	Picture	Work instruction	

#### Removal of evaporator

Note: Make sure power is cut off. Take good care of the copper pipe and aluminum fins. If the removal takes a long time, please put the copper pipe under pressure.

time, please put the copper pipe under pressure.		
Step	Picture	Work instruction
Remove the screws on the side plate of evaporator.		•Remove the screws of evaporator and the screws that connect the upper cover plate to the left and right side plates.
Remove the sealing plate the connects to the evaporator valve and the screws that connect to the flange.		•Remove the screws of the sealing plate of valve. Then remove the sealing plate of valve. Remove the screws that connect the evaporator to the flange.
3. Remove the evaporator.		•Take off the evaporator.  The removed evaporator is as shown in the picture.

### 4.5.2.3 Floor Ceiling Unit

Take model ASF-60BI as an example.

#### Removal of front grill

Note: Before removal, make sure power is cut off. During the removal procedure, take good care of all the components. Do not place the filter near any heat source.

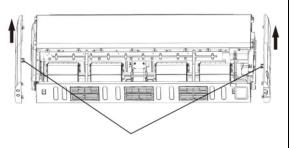
components. Do not place the filter hear any neat source.		
Step	Picture	Work instruction
Remove the sub-assembly of front grill.		<ul> <li>Twist off the 2 hooks of the grill and the screws of the hooks.</li> <li>Open the grill and remove 2 lower clamps. Then remove the grill.</li> </ul>

#### Remove the right and left decorative boards

Note: Before removal, make sure power is cut off. During the removal procedure, take good care of all the components. Do not scratch the appearance components.

Step	Picture	Work instruction

Remove the left and right panels.



•Use a screwdriver to loosen the screws, as shown in the picture. Then pull the right and left panels upward. (Lines in the picture indicate the positions of screws.)

#### Removal of electric box assembly

Note: Before removal, make sure power is cut off. During the removal procedure, take good care of all the components, especially the components in electric box. Protect it from water and collision.

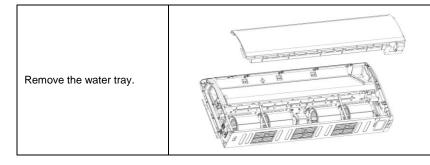
Step	Picture	Work instruction
Remove the electric box.		•Unscrew 34 screws as shown in the left picture and then remove the electric box.

## Removal of air guide louver

Note: Before removal, make sure power is cut off. During the removal procedure, take good care of all the components, especially the connectors of air guide louver.

components, especially the connectors of all guide louver.			
Step	Picture	Work instruction	
Remove the air guide louver		•Remove the air guide louver from its supporting assembly. Then take off the connectors from the	
assembly.		swing motor. (As shown in the picture, the lines indicate the supporting assembly.)	

Removal of water tray				
Note: Before removal, make sure power is cut off. During the removal procedure, take good care of all the				
components.				
Step	Picture	Work instruction		



Remove the water tray.

#### Removal of evaporator

Note: Make sure power is cut off. Take good care of the copper pipe and aluminum fins. If the removal takes a long time, seal the copper pipe.

Step	Picture	Work instruction
Remove the evaporator assembly.		•Twist off the 6 screws of the evaporator, 3 screws of the plate board of water releasing flume, and 2 screws of the water tray. Then remove the evaporator.

#### Removal of display panel and fan assembly

Note: Before removal, make sure power is cut off. During the removal procedure, take good care of all the components.

Step	Picture	Work instruction
Remove the display panel and fan assembly.		•First remove the display panel, next the bracket and then the swing motor mounting plate.

#### Removal of fan and motor

Note: Before removal, make sure power is cut off. During the removal procedure, take good care of all the components, especially the screws of fan.

Step	Picture	Work instruction
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#### Removal of fan and motor

Note: Before removal, make sure power is cut off. During the removal procedure, take good care of all the components, especially the screws of fan.

Step	Picture	Work instruction
1.Remove the volutes.	Loosen the screws	•Press the retaining ring at the joint of front and rear volutes. Then pull up the front volute. Then loosen the screws of the rear volute. Lift up the retaining ring of the rear volute and take it off. (As shown in the picture, the lines indicate the screws on both sides of the volutes.
2. Remove the fan.	Loosen the screws	•Loosen the 2 screws of the coupler. Take out the shaft and axial flow fan. Loosen the screws of axial flow fan and remove the axial flow fan.
Remove the bearing fixed plate.	Bracket	●Twist off the screws and nuts of bracket. Then remove the bracket.
4. Remove the motor	Securing clip Loosen the screws	•Loosen the 2 screws of the motor securing clip. Remove the motor securing clip and its assembly.

#### **Appendices**

# 1. Resistance/temperature lists of temperature sensors

## 1.1 Voltage list of 15 k $\Omega$ temperature sensors (including ODU and IDU temperature sensors)

Temperature	Resistance	V-14 (\) (\)	Temperature	Resistance	\/-\{-\{-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
(°C)	(kΩ)	Voltage (V)	(°C)	(kΩ)	Voltage (V)	
-20	144	0.311	71	2.523	2.825	
-19	138.1	0.323	72	2.439	2.838	
-18	128.6	0.345	73	2.358	2.852	
-17	121.6	0.362	74	2.28	2.865	
-16	115	0.381	75	2.205	2.877	
-15	108.7	0.4	76	2.133	2.889	
-14	102.9	0.42	77	2.064	2.901	
-13	97.4	0.44	78	1.997	2.912	
-12	92.22	0.462	79	1.933	2.923	
-11	87.35	0.484	80	1.871	2.934	
-10	82.75	0.506	81	1.811	2.945	
-9	78.43	0.53	82	1.754	2.955	
-8	74.35	0.554	83	1.699	2.964	
-7	70.5	0.579	84	1.645	2.974	
-6	66.88	0.605	85	1.594	2.983	
-5	63.46	0.631	86	1.544	2.992	
-4	60.23	0.658	87	1.497	3.001	
-3	57.18	0.686	88	1.451	3.009	
-2	54.31	0.714	89	1.408	3.017	
-1	51.59	0.743	90	1.363	3.025	
0	49.02	0.773	91	1.322	3.033	
1	46.8	0.801	92	1.282	3.04	
2	44.31	0.835	93	1.244	3.047	
3	42.14	0.866	94	1.207	3.054	
4	40.09	0.899	95	1.171	3.061	
5	38.15	0.931	96	1.136	3.068	
6	36.32	0.965	97	1.103	3.074	
7	34.58	0.998	98	1.071	3.08	
8	32.94	1.033	99	1.039	3.086	
9	31.38	1.067	100	1.009	3.092	
10	29.9	1.102	101	0.98	3.098	

Temperature	Resistance		Temperature	Resistance	
(°C)	(kΩ)	Voltage (V)	(°C)	(kΩ)	Voltage (V)
11	28.51	1.138	102	0.952	3.103
12	27.18	1.174	103	0.925	3.108
13	25.92	1.21	104	0.898	3.114
14	24.73	1.246	105	0.873	3.119
15	23.6	1.282	106	0.848	3.123
16	22.53	1.319	107	0.825	3.128
17	21.51	1.356	108	0.802	3.133
18	20.54	1.393	109	0.779	3.137
19	19.63	1.429	110	0.758	3.141
20	18.75	1.467	111	0.737	3.145
21	17.93	1.503	112	0.717	3.15
22	17.14	1.54	113	0.697	3.153
23	16.39	1.577	114	0.678	3.157
24	15.68	1.613	115	0.66	3.161
25	15	1.65	116	0.642	3.165
26	14.36	1.686	117	0.625	3.168
27	13.74	1.722	118	0.608	3.171
28	13.16	1.758	119	0.592	3.175
29	12.6	1.793	120	0.577	3.178
30	12.07	1.829	121	0.561	3.181
31	11.57	1.863	122	0.547	3.184
32	11.09	1.897	123	0.532	3.187
33	10.63	1.931	124	0.519	3.19
34	10.2	1.964	125	0.505	3.192
35	9.779	1.998	126	0.492	3.195
36	9.382	2.03	127	0.48	3.198
37	9.003	2.062	128	0.467	3.2
38	8.642	2.094	129	0.456	3.203
39	5.997	2.125	130	0.444	3.205
41	7.653	2.185	131	0.433	3.207
42	7.352	2.215	132	0.422	3.21
43	7.065	2.243	133	0.412	3.212
44	6.791	2.272	134	0.401	3.214
45	6.529	2.299	135	0.391	3.216
46	6.278	2.326	136	0.382	3.218
47	6.038	2.353	137	0.372	3.22
48	5.809	2.379	138	0.363	3.222
49	5.589	2.404	139	0.355	3.224
50	5.379	2.429	140	0.346	3.226
51	5.179	2.453	141	0.338	3.227
52	4.986	2.477	142	0.33	3.229
53	4.802	2.5	143	0.322	3.231
54	4.625	2.522	144	0.314	3.232

Temperature (°C)	Resistance (kΩ)	Voltage (V)	Temperature (°C)	Resistance (kΩ)	Voltage (V)
55	4.456	2.544	145	0.307	3.234
56	4.294	2.566	146	0.299	3.235
57	4.139	2.586	147	0.292	3.237
58	3.99	2.607	148	0.286	3.238
59	3.848	2.626	149	0.279	3.24
60	3.711	2.646	150	0.273	3.241
61	3.579	2.664	151	0.266	3.242
62	3.454	2.682	152	0.261	3.244
63	3.333	2.7	153	0.254	3.245
64	3.217	2.717	154	0.248	3.246
65	3.105	2.734	155	0.243	3.247
66	2.998	2.75	156	0.237	3.249
67	2.898	2.766	157	0.232	3.25
68	2.797	2.781	158	0.227	3.251
69	2.702	2.796	159	0.222	3.252
70	2.611	2.811	160	0.217	3.253

## 1.2 Voltage list of 20 k $\Omega$ pipeline temperature sensors (including temperature sensors for defroster, IDU and ODU pipes)

Temperature (°C)	Resistance (kΩ)	Voltage (V)	Temperature (°C)	Resistance (kΩ)	Voltage (V)
-30	361.8	0.173	66	3.998	2.75
-29	339.8	0.183	67	3.861	2.766
-28	319.2	0.195	68	3.729	2.781
-27	300	0.206	69	3.603	2.796
-26	282.2	0.218	70	3.481	2.811
-25	265.5	0.231	71	3.364	2.825
-24	249.9	0.245	72	3.252	2.838
-23	235.3	0.259	73	3.144 3.04	2.852 2.865 2.877
-22	221.6	0.273	74		
-21	208.9	0.288	75	2.94	
-20	196.9	0.304	76	2.844	2.889
-19	181.4	0.328	77	2.752	2.901 2.912
-18	171.4	0.345	78	2.663	
-17	162.1	0.362	79	2.577	2.923
-16	153.3	0.381	80	2.495	2.934
-15	145	0.4	81	2.415	2.944
-14	137.2	0.42	82	2.339	2.954
-13	129.9	0.44	83	2.265	2.964
-12	123	0.462	84	2.194	2.974
-11	116.5	0.484	85	2.125	2.983

Temperature	Resistance		Temperature	Resistance	
(°C)	(kΩ)	Voltage (V)	(°C)	(kΩ)	Voltage (V)
-10	110.3	0.507	86	2.059	2.992
-9	104.6	0.53	87	1.996	3.001
-8	99.13	0.554	88	1.934	3.009
-7	94	0.579	89	1.875	3.017
-6	89.17	0.605	90	1.818	3.025
-5	84.61	0.631	91	1.763	3.033
-4	80.31	0.658	92	1.71	3.04
-3	76.24	0.686	93	1.658	3.047
-2	72.41	0.714	94	1.609	3.054
-1	68.79	0.743	95	1.561	3.061
0	65.37	0.773	96	1.515	3.068
1	62.13	0.804	97	1.47	3.074
2	59.08	0.835	98	1.427	3.08
3	56.19	0.866	99	1.386	3.086
4	53.46	0.898	100	1.346	3.092
5	50.87	0.931	101	1.307	3.098
6	48.42	0.965	102	1.269	3.103
7	46.11	0.998	103	1.233	3.108
8	43.92	1.033	104	1.198	3.114
9	41.84	1.067	105	1.164	3.119
10	39.87	1.102	106	1.131	3.123
11	38.01	1.138	107	1.099	3.128
12	36.24	1.174	108	1.069	3.133
13	34.57	1.209	109	1.039	3.137
14	32.98	1.246	110	1.01	3.141
15	31.47	1.282	111	0.9825	3.145
16	30.04	1.319	112	0.9556	3.15
17	28.68	1.356	113	0.9295	3.153
18	27.39	1.393	114	0.9043	3.157
19	26.17	1.429	115	0.8799	3.161
20	25.01	1.466	116	0.8562	3.165
21	23.9	1.503	117	0.8333	3.168
22	22.85	1.54	118	0.8111	3.171
23	21.85	1.577	119	0.7895	3.175
24	20.9	1.614	120	0.7687	3.178
25	20	1.65	121	0.7485	3.181
26	19.14	1.686	122	0.7289	3.184
27	18.32	1.722	123	0.7099	3.187
28	17.55	1.758	124	0.6915	3.19
29	16.8	1.793	125	0.6736	3.192
30	16.1	1.828	126	0.6563	3.195
31	15.43	1.863	127	0.6395	3.198
32	14.79	1.897	128	0.6232	3.2

Temperature (°C)	Resistance (kΩ)	Voltage (V)	Temperature (°C)	Resistance (kΩ)	Voltage (V)
33	14.18	1.931	129	0.6074	3.203
34	13.59	1.965	130	0.5921	3.205
35	13.04	1.998	131	0.5772	3.207
36	12.51	2.03	132	0.5627	3.21
37	12	2.063	133	0.5487	3.212
38	11.52	2.094	134	0.5351	3.214
39	11.06	2.125	135	0.5219	3.216
40	10.62	2.155	136	0.509	3.218
41	10.2	2.185	137	0.4966	3.22
42	9.803	2.215	138	0.4845	3.222
43	9.42	2.243	139	0.4727	3.224
44	9.054	2.272	140	0.4613	3.226
45	8.705	2.299	141	0.4502	3.227
46	8.37	2.326	142	0.4394	3.229
47	8.051	2.353	143	0.4289	3.231
48	7.745	2.379	144	0.4187	3.232
49	7.453	2.404	145	0.4088	3.234
50	7.173	2.429	146	0.3992	3.235
51	6.905	2.453	147	0.3899	3.237
52	6.648	2.477	148	0.3808	3.238
53	6.403	2.5	149	0.3719	3.24
54	6.167	2.522	150	0.3633	3.241
55	5.942	2.544	151	0.3549	3.242
56	5.726	2.565	152	0.3468	3.244
57	5.519	2.586	153	0.3389	3.245
58	5.32	2.607	154	0.3312	3.246
59	5.13	2.626	155	0.3237	3.247
60	4.948	2.646	156	0.3164	3.249
61	4.773	2.664	157	0.3093	3.25
62	4.605	2.682	158	0.3024	3.251
63	4.443	2.7	159	0.2956	3.252
64	4.289	2.717	160	0.2891	3.253
65	4.14	2.734			

## 1.3 Voltage list of 50 k $\Omega$ discharge temperature sensors (including discharge air temperature sensor)

Temperature	Resistance	Voltage (V)	Temperature	Resistance	Voltago (V)
(°C)	(kΩ)	Voltage (V)	(°C)	(kΩ)	Voltage (V)
-30	911.56	0.036	61	11.736	1.518
-29	853.66	0.038	62	11.322	1.548
-28	799.98	0.041	63	10.925	1.577
-27	750.18	0.043	64	10.544	1.606
-26	703.92	0.046	65	10.178	1.635
-25	660.93	0.049	66	9.8269	1.664
-24	620.94	0.052	67	9.4896	1.693
-23	583.72	0.056	68	9.1655	1.722
-22	549.04	0.059	69	8.9542	1.741
-21	516.71	0.063	70	8.5551	1.778
-20	486.55	0.066	71	5.9676	1.806
-19	458.4	0.07	72	7.9913	1.834
-18	432.1	0.075	73	7.7257	1.862
-17	407.51	0.079	74	7.4702	1.889
-16	384.51	0.084	75	7.2245	1.916
-15	362.99	0.088	76	6.9882	1.943
-14	342.83	0.094	77	6.7608	1.969
-13	323.94	0.099	78	6.542	1.995
-12	306.23	0.104	79	6.3315	2.021
-11	289.61	0.11	80	6.1288	2.046
-10	274.02	0.116	81	5.9336	2.071
-9	259.37	0.123	82	5.7457	2.096
-8	245.61	0.129	83	5.5647	2.12
-7	232.67	0.136	84	5.3903	2.144
-6	220.5	0.143	85	5.2223	2.168
-5	209.05	0.151	86	5.0605	2.191
-4	195.97	0.158	87	4.9044	2.214
-3	188.12	0.167	88	4.7541	2.237
-2	178.65	0.175	89	4.6091	2.259
-1	169.68	0.184	90	4.4693	2.281
0	161.02	0.193	91	4.3345	2.302
1	153	0.202	92	4.2044	2.323
2	145.42	0.212	93	4.0789	2.344
3	135.96	0.223	94	3.9579	2.364
4	131.5	0.233	95	3.841	2.384
5	126.17	0.242	96	3.7283	2.404
6	119.08	0.256	97	3.6194	2.423
7	113.37	0.267	98	3.5143	2.442

Temperature	Resistance		Temperature	Resistance	
(°C)	(kΩ)	Voltage (V)	(°C)	(kΩ)	Voltage (V)
8	107.96	0.28	99	3.4128	2.46
9	102.85	0.292	100	3.3147	2.478
10	98.006	0.306	101	3.22	2.496
11	93.42	0.319	102	3.1285	2.514
12	89.075	0.333	103	3.0401	2.531
13	84.956	0.348	104	2.9547	2.547
14	81.052	0.362	105	2.8721	2.564
15	77.349	0.378	106	2.7922	2.58
16	73.896	0.393	107	2.715	2.595
17	70.503	0.41	108	2.6404	2.611
18	67.338	0.427	109	2.5682	2.626
19	64.333	0.444	110	2.4983	2.64
20	61.478	0.462	111	2.4308	2.655
21	58.766	0.48	112	2.3654	2.669
22	56.189	0.499	113	2.3021	2.682
23	53.738	0.518	114	2.2409	2.696
24	51.408	0.537	115	2.1816	2.709
25	49.191	0.558	116	2.1242	2.722
26	47.082	0.578	117	2.0686	2.734
27	45.074	0.599	118	2.0148	2.747
28	43.163	0.621	119	1.9626	2.759
29	41.313	0.643	120	1.9123	2.77
30	39.61	0.665	121	1.8652	2.781
31	37.958	0.688	122	1.8158	2.793
32	36.384	0.711	123	1.7698	2.804
33	34.883	0.735	124	1.7253	2.814
34	33.453	0.759	125	1.6821	2.825
35	32.088	0.784	126	1.6402	2.835
36	30.787	0.809	127	1.5996	2.845
37	29.544	0.835	128	1.5602	2.855
38	28.359	0.86	129	1.522	2.864
39	27.227	0.886	130	1.485	2.873
40	26.147	0.913	131	1.449	2.882
41	25.114	0.94	132	1.4141	2.891
42	24.128	0.967	133	1.3803	2.9
43	23.186	0.994	134	1.3474	2.908
44	22.286	1.022	135	1.3155	2.916
45	21.425	1.05	136	1.2846	2.924
46	20.601	1.078	137	1.2545	2.932
47	19.814	1.107	138	1.2233	2.94
48	19.061	1.136	139	1.1969	2.947
49	18.34	1.164	140	1.1694	2.955
50	17.651	1.193	141	1.1476	2.96

Temperature	Resistance	Voltage (V)	Temperature	Resistance	Valtage (V)
(°C)	(kΩ)	Voltage (V)	(°C)	(kΩ)	Voltage (V)
51	16.99	1.223	142	1.1166	2.969
52	16.358	1.252	143	1.0913	2.975
53	15.753	1.281	144	1.0667	2.982
54	15.173	1.311	145	1.0429	2.988
55	14.618	1.34	146	1.0197	2.995
56	14.085	1.37	147	0.9971	3.001
57	13.575	1.4	148	0.9752	3.007
58	13.086	1.429	149	0.9538	3.013
59	12.617	1.459	150	0.9331	3.018
60	12.368	1.475			

### 2. Temperature/Pressure List of Refrigerant

	R32								
Pressure	Temperature		Pressure	Temperature		Pressure	Temperature		
Кра	c		Kpa	C		Kpa	C		
100	-51.909		1250	14.153	1	2400	38.688		
150	-43.635		1300	15.52		2450	39.529		
200	-37.323		1350	16.847		2500	40.358		
250	-32.15		1400	18.138		2550	41.173		
300	-27.731		1450	19.395		2600	41.977		
350	-23.85		1500	20.619		2650	42.769		
400	-20.378		1550	21.813		2700	43.55		
450	-17.225		1600	22.978		2750	44.32		
500	-14.331		1650	24.116		2800	45.079		
550	-11.65		1700	25.229		2850	45.828		
600	-9.1503		1750	26.317		2900	46.567		
650	-6.8046		1800	27.382		2950	47.296		
700	-4.5925		1850	28.425		3000	48.015		
750	-2.4975		1900	29.447		3050	48.726		
800	-0.50613		1950	30.448		3100	49.428		
850	1.393		2000	31.431		3150	50.121		
900	3.2092		2050	32.395		3200	50.806		
950	4.9506		2100	33.341		3250	51.482		
1000	6.624		2150	34.271		3300	52.15		
1050	8.2352		2200	35.184		3350	52.811		
1100	9.7896		2250	36.082		3400	53.464		
1150	11.291		2300	36.965		3450	54.11		
1200	12.745		2350	37.834		3500	54.748		

#### 3. Refrigerant Notice/Concentration

This air conditioner uses R32 refrigerant. The construction area for installation, operation and storage of the air conditioner must be larger than the minimum construction area. The minimum area for installation is determined by:

- (1) Refrigerant charging quantity for the entire system (ex-factory charging quantity + additional charging quantity);
- (2) Checking out in the applicable tables:
  - 1) For indoor unit, confirm the model of indoor unit and check the corresponding table.
  - 2) For outdoor unit that is installed or placed indoors, select the corresponding table according to the height of the room

Height of the room	Select the applicable table
<1.8m	Floor standing type
≥1.8m	Wall mounted type

(3) Refer to the following table to check out the minimum construction area

Ceilin	g type	Wall mo	ounted type		Floor sta	nding type
Weight (kg)	Area( m^2 )	Weight (kg)	Area (m^2)		Weight (kg)	Area (m^2)
<1.224	_	<1.224	_		<1.224	_
1.224	0.956	1.224	1.43		1.224	12.9
1.4	1.25	1.4	1.87		1.4	16.8
1.6	1.63	1.6	2.44		1.6	22.0
1.8	2.07	1.8	3.09		1.8	27.8
2.0	2.55	2.0	3.81		2.0	34.3
2.2	3.09	2.2	4.61		2.2	41.5
2.4	3.68	2.4	5.49		2.4	49.4
2.6	4.31	2.6	6.44		2.6	58.0
2.8	5.00	2.8	7.47		2.8	67.3
3.0	5.74	3.0	8.58		3.0	77.2
3.2	6.54	3.2	9.76		3.2	87.9
3.4	7.38	3.4	11.0		3.4	99.2
3.6	8.27	3.6	12.4		3.6	111
3.8	9.22	3.8	13.8		3.8	124
4.0	10.2	4.0	15.3		4.0	137
4.2	11.3	4.2	16.8		4.2	151
4.4	12.4	4.4	18.5		4.4	166
4.6	13.5	4.6	20.2		4.6	182
4.8	14.7	4.8	22.0		4.8	198
5.0	16.0	5.0	23.8		5.0	215
5.2	17.3	5.2	25.8		5.2	232
5.4	18.6	5.4	27.8		5.4	250
5.6	20.0	5.6	29.9		5.6	269
5.8	21.5	5.8	32.1		5.8	289
6.0	23.0	6.0	34.3		6.0	309
6.2	24.5	6.2	36.6		6.2	330
6.4	26.1	6.4	39.1		6.4	351
6.6	27.8	6.6	41.5		6.6	374
6.8	29.5	6.8	44.1		6.8	397

7.0	31.3	7.0	46.7	7.0	420
7.2	33.1	7.2	49.4	7.2	445
7.4	34.9	7.4	52.2	7.4	470
7.6	36.9	7.6	55.1	7.6	496
7.8	38.8	7.8	58.0	7.8	522
8.0	10.8	8.0	61.0	8.0	549

### 4. Operation Tools

The following tools will be used: 1) Liquid-level gauge; 2) Screwdriver; 3) Electric driven rotary hammer; 4) Drill; 5) Pipe expander; 6) Torque wrench; 7) Open-end wrench; 8) Pipe cutter; 9) Leak detector; 10) Vacuum pump; 11) Pressure gauge; 12) Universal meter; 13) Hexagon wrench; 14) Tapeline.

#### **UNI SPLIT SERIES COMPRESSOR TYPES**

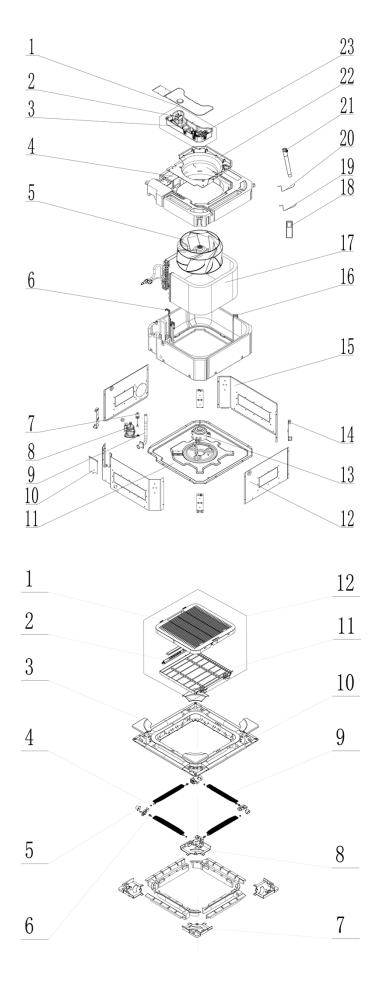
UNIT	COMPRESSOR TYPE
ASGE-12BI	QXF-A102zE170B
ASGE-18BI	QXF-B141zF030F
ASGE-24BI	QXFS-D25zX090H
ASGE-30BI	QXFS-D25zX090H
ASGE-36BI	QXFS-D32zX090D
ASGE-36BI-3	QXFS-D32zX090C
ASGE-42BI-3	QXFS-F428zX450I
ASGE-48BI-3	QXFS-F428zX450I
ASGE-60BI-3	QXFS-F428zX450I



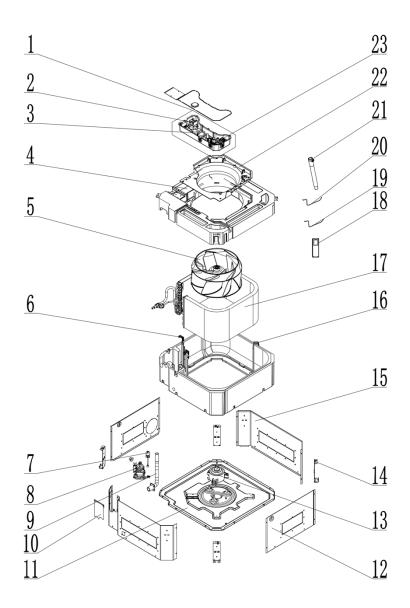
### **UNI SPLIT SERIES**

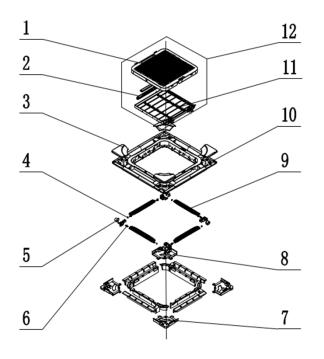
**ASC-XXBI** 



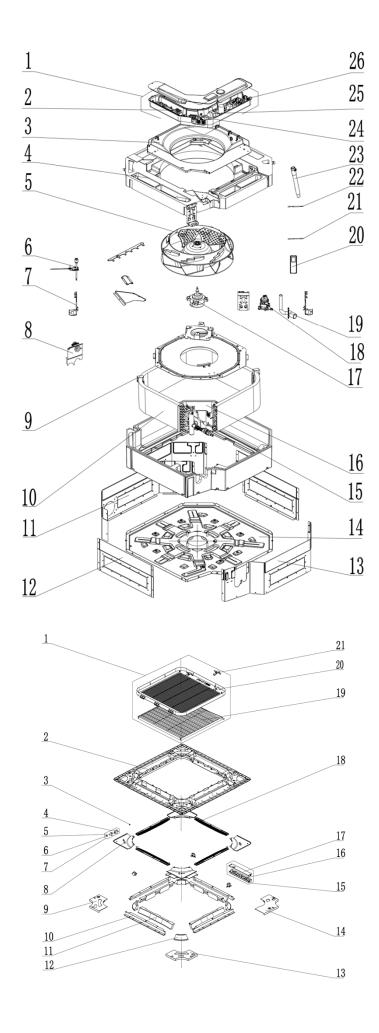


No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASC-12BI C	assette unit			
1	Electric Box Assy	100002003276		1	BA
2	Terminal Board	42011106		1	AD
3	Main Board	300002060465		1	AZ
4	Water Tray Assy	000069060065		1	AZ
5	Centifugal Fan	103003060008		1	AZ
6	Connection Sheet Sub-Assy	017025060047		1	AF
7	Liquid Level Switch	430024000005		1	AH
8	Water Pump	4313800005802		1	AV
9	Drain Pipe	200070060005		1	AL
10	Sealplate	012034060119		1	AC
11	Seat Board Sub-Assy	017080060023		1	AR
12	Side Plate	012010060177		1	AG
13	Brushless DC Motor	150104060012		1	ВС
14	Mounting Rack Sub-Assy	017044060011		4	AC
15	Side Plate	012010060175		1	AK
16	Support	012060061048		1	AC
17	Evaporator Assy	011001060494		1	BF
18	Remote Control	305001060024		1	AQ
19	Room Sensor	39000191		1	AD
20	Temperature Sensor	390001921		1	AD
21	Drain Hose Sub-Assy	007008000001		1	AG
22	Flow Guide Loop	200150060003		1	AF
23	Terminal Board	42018000551		1	AF
	Jumper	4202021901			
	Block Gasket	70413008			
	Nut	70310118			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
	MODEL: ASC-12BI Casse	ette unit: PANEL			
1	Front Grill	27230012113		1	-
2	Display Board	300001060286		1	AK
3	Corner Cover Sub-assy	209066060003		4	AD
4	Left Axile Bush	10512037		4	AB
5	Step Motor	15729401		1	AG
6	Crankshaft	200023060001		4	AB
7	Corner Cover Sub-assy	209066060002		1	AD
8	Corner Cover Sub-assy	209066060001		3	AD
9	Guide Louver	200004060025		4	AC
10	Front Case	200002060020		1	AP
11	Filter Sub-Assy	111001060046		1	AD
12	Front Grill	209059060003_L41419		1	-

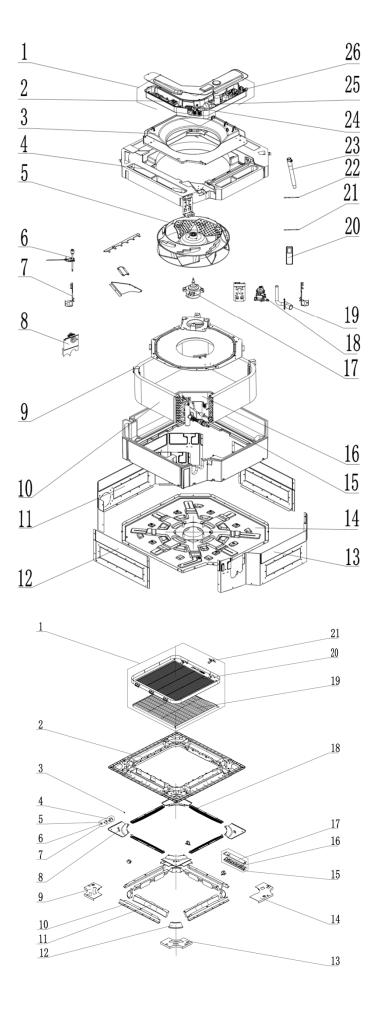




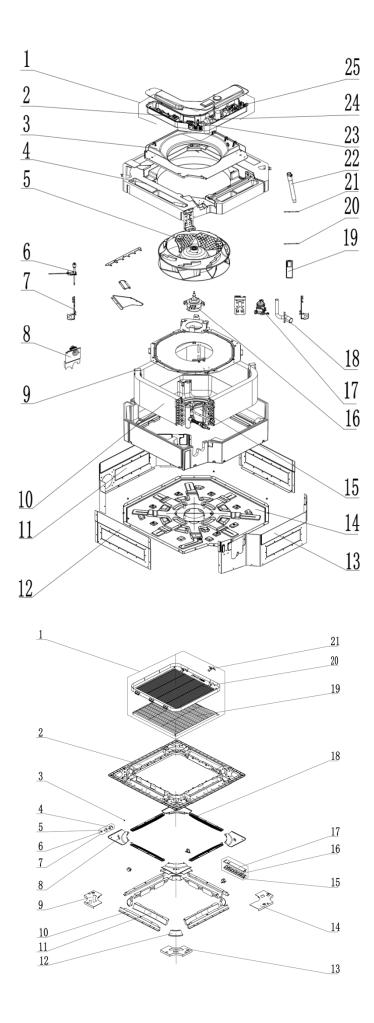
Terminal Board	No	Description	Part Code	Note	Qty	Price Code
Terminal Board		MODEL: ASC-18BI C	assette unit			
Main Board   300002060465	1	Electric Box Assy	100002003276		1	BA
Water Tray Assy	2	Terminal Board	42011106		1	AD
5         Centifugal Fan         103003060008         1         AZ           6         Connection Sheet Sub-Assy         017025060047         1         AG           7         Liquid Level Switch         430024000005         1         AK           8         Water Pump         4313800005802         1         -           9         Drain Pipe         200070060005         1         AL           10         Sealplate         012034060119         1         AD           11         Seat Board Sub-Assy         017080060023         1         AS           12         Side Plate         012010060177         1         AH           13         Brushless DC Motor         150104060012         1         BC           14         Mounting Rack Sub-Assy         017044060011         4         AD           15         Side Plate         012010060175         1         AK           16         Support         012060061048         1         AC           17         Evaporator Assy         01100160299         1         BE           18         Remote Control         3980019921         1         AG           19         Room Sensor         39001991	3	Main Board	300002060465		1	AZ
66         Connection Sheet Sub-Assy         017025060047         1         AG           7         Liquid Level Switch         430024000005         1         AK           8         Water Pump         4313800005802         1         -           9         Drain Pipe         200070060005         1         AL           10         Sealplate         012034060119         1         AD           11         Seat Board Sub-Assy         017080060023         1         AS           12         Side Plate         012010060177         1         AH           13         Brushless DC Motor         150104060012         1         BC           14         Mounting Rack Sub-Assy         01704060011         4         AD           15         Side Plate         012010060175         1         AK           16         Support         012010060175         1         AK           16         Support         012010060175         1         AK           17         Evaporator Assy         011001060299         1         BE           18         Remote Control         305001960042         1         AI           19         Room Sensor         390001921	4	Water Tray Assy	000069060065		1	AZ
7         Liquid Level Switch         430024000005         1         AK           8         Water Pump         4313800005802         1         -           9         Drain Pipe         200070060005         1         AL           10         Sealplate         012034060119         1         AD           11         Seat Board Sub-Assy         017080060023         1         AS           12         Side Plate         012010060177         1         AH           13         Brushless DC Motor         150104060012         1         BC           14         Mounting Rack Sub-Assy         017044060011         4         AD           15         Side Plate         012010060175         1         AK           16         Support         012060061048         1         AC           17         Evaporator Assy         011001060299         1         BE           18         Remote Control         305001060024         1         AC           17         Evaporator Assy         011001060299         1         BE           18         Remote Control         305001060024         1         AD           19         Room Sensor         39000192	5		103003060008		1	AZ
Water Pump	6	Connection Sheet Sub-Assy	017025060047		1	AG
9         Drain Pipe         200070060005         1         AL           10         Sealplate         012034060119         1         AD           11         Seat Board Sub-Assy         017080060023         1         AS           12         Side Plate         012010060177         1         AH           13         Brushless DC Motor         150104060012         1         BC           14         Mounting Rack Sub-Assy         017044060011         4         AD           15         Side Plate         012010060175         1         AK           16         Support         012060061048         1         AC           17         Evaporator Assy         011001060299         1         BE           18         Remote Control         305001060024_L41419         1         -           19         Room Sensor         39000191         1         AD           20         Temperature Sensor         390001921         1         AD           21         Drain Hose Sub-Assy         007008000001         1         AG           22         Flow Guide Loop         200150060003         1         AF           23         Terminal Board         42018000551<	7	Liquid Level Switch	430024000005		1	AK
10	8	Water Pump	4313800005802		1	-
11	9	Drain Pipe	200070060005		1	AL
12	10	Sealplate	012034060119		1	AD
13   Brushless DC Motor	11	Seat Board Sub-Assy	017080060023		1	AS
14         Mounting Rack Sub-Assy         017044060011         4         AD           15         Side Plate         012010060175         1         AK           16         Support         012060061048         1         AC           17         Evaporator Assy         011001060299         1         BE           18         Remote Control         305001060024_L41419         1         -           19         Room Sensor         39000191         1         AD           20         Temperature Sensor         390001921         1         AD           21         Drain Hose Sub-Assy         007008000001         1         AG           22         Flow Guide Loop         200150060003         1         AF           23         Terminal Board         42018000551         1         AG           Remote Holder         2615000701         4202021902         Block Gasket         70413008         Interpretation of Control	12	Side Plate	012010060177		1	AH
15	13	Brushless DC Motor	150104060012		1	ВС
16         Support         012060061048         1         AC           17         Evaporator Assy         011001060299         1         BE           18         Remote Control         305001060024_L41419         1         -           19         Room Sensor         39000191         1         AID           20         Temperature Sensor         390001921         1         AD           21         Drain Hose Sub-Assy         007008000001         1         AG           22         Flow Guide Loop         200150060003         1         AF           23         Terminal Board         42018000551         1         AG           Remote Holder         2615000701         1         AG           Jumper         4202021902         1         AG           Nut         70310118         1         AG           SWM-03 Wi-Fi Module (Optional)         53511000000626         1         AK           1         Front Grill         27230012113         1         -           2         Display Board         300001060286         1         AK           3         Corner Cover Sub-assy         209066060003         4         AD           4	14	Mounting Rack Sub-Assy	017044060011		4	AD
17         Evaporator Assy         011001060299         1         BE           18         Remote Control         305001060024_L41419         1         -           19         Room Sensor         39000191         1         A\D           20         Temperature Sensor         390001921         1         AD           21         Drain Hose Sub-Assy         007008000001         1         AG           22         Flow Guide Loop         200150060003         1         AF           23         Terminal Board         42018000551         1         AG           Remote Holder         2615000701         1         AG           Jumper         4202021902         1         AG           Block Gasket         70413008         1         AF           Nut         70310118         1         AG           SWM-03 Wi-Fi Module (Optional)         5351100000626         1         AK           1         Front Grill         27230012113         1         -           2         Display Board         300001060286         1         AK           3         Corner Cover Sub-assy         209066060003         4         AD           4         Left Axile Bush<	15	Side Plate	012010060175		1	AK
18         Remote Control         305001060024_L41419         1         -           19         Room Sensor         39000191         1         A\D           20         Temperature Sensor         390001921         1         AD           21         Drain Hose Sub-Assy         007008000001         1         AG           22         Flow Guide Loop         200150060003         1         AF           23         Terminal Board         42018000551         1         AG           Remote Holder         2615000701         1         AG           Jumper         4202021902         1         AG           Nut         70310118         1         AG           SWM-03 Wi-Fi Module (Optional)         5351100000626         1         AK           1         Front Grill         27230012113         1         -           2         Display Board         300001060286         1         AK           3         Corner Cover Sub-assy         20966060003         4         AD           4         Left Axile Bush         10512037         4         AB           5         Step Motor         15729401         1         AG           6         Crank	16	Support	012060061048		1	AC
19	17	Evaporator Assy	011001060299		1	BE
20         Temperature Sensor         390001921         1         AD           21         Drain Hose Sub-Assy         007008000001         1         AG           22         Flow Guide Loop         200150060003         1         AF           23         Terminal Board         42018000551         1         AG           Remote Holder         2615000701         1         AG           Jumper         4202021902         1         AG           Block Gasket         70413008         1         AF           Nut         70310118         1         SWM-03 Wi-Fi Module (Optional)         5351100000626           MODEL: ASC-18BI Cassette unit: PANEL           1         Front Grill         27230012113         1         -           2         Display Board         300001060286         1         AK           3         Corner Cover Sub-assy         209066060003         4         AD           4         Left Axile Bush         10512037         4         AB           5         Step Motor         15729401         1         AG           6         Crankshaft         200023060001         4         AB           7         Corner Cover Sub-assy	18	Remote Control	305001060024_L41419		1	-
21         Drain Hose Sub-Assy         007008000001         1         AG           22         Flow Guide Loop         200150060003         1         AF           23         Terminal Board         42018000551         1         AG           Remote Holder         2615000701         1         AG           Jumper         4202021902         1         AG           Block Gasket         70413008         1         AK           Nut         70310118         1         AG           SWM-03 Wi-Fi Module (Optional)         5351100000626         1         AK           1         Front Grill         27230012113         1         -           2         Display Board         300001060286         1         AK           3         Corner Cover Sub-assy         209066060003         4         AD           4         Left Axile Bush         10512037         4         AB           5         Step Motor         15729401         1         AG           6         Crankshaft         200023060001         4         AB           7         Corner Cover Sub-assy         209066060002         1         AD           8         Corner Cover Sub-assy	19	Room Sensor	39000191		1	A\D
22         Flow Guide Loop         200150060003         1         AF           23         Terminal Board         42018000551         1         AG           Remote Holder         2615000701         1         AG           Jumper         4202021902         1         AB           Block Gasket         70413008         1         AK           Nut         70310118         1         AK           SWM-03 Wi-Fi Module (Optional)         53511000000626         1         AK           MODEL: ASC-18BI Cassette unit: PANEL           1         Front Grill         27230012113         1         -           2         Display Board         300001060286         1         AK           3         Corner Cover Sub-assy         209066060003         4         AD           4         Left Axile Bush         10512037         4         AB           5         Step Motor         15729401         1         AG           6         Crankshaft         200023060001         4         AB           7         Corner Cover Sub-assy         209066060002         1         AD           8         Corner Cover Sub-assy         200004060025         4         A	20	Temperature Sensor	390001921		1	AD
23         Terminal Board         42018000551         1         AG           Remote Holder         2615000701 <t< td=""><td>21</td><td>Drain Hose Sub-Assy</td><td>007008000001</td><td></td><td>1</td><td>AG</td></t<>	21	Drain Hose Sub-Assy	007008000001		1	AG
Remote Holder	22	Flow Guide Loop	200150060003		1	AF
Jumper	23	Terminal Board	42018000551		1	AG
Block Gasket		Remote Holder	2615000701			
Nut         70310118           MODEL: ASC-18BI Cassette unit: PANEL           1         Front Grill         27230012113         1         -           2         Display Board         300001060286         1         AK           3         Corner Cover Sub-assy         209066060003         4         AD           4         Left Axile Bush         10512037         4         AB           5         Step Motor         15729401         1         AG           6         Crankshaft         200023060001         4         AB           7         Corner Cover Sub-assy         209066060002         1         AD           8         Corner Cover Sub-assy         209066060001         3         AD           9         Guide Louver         200004060025         4         AC           10         Front Case         200002060020         1         AP           11         Filter Sub-Assy         111001060046         1         AD		Jumper	4202021902			
SWM-03 Wi-Fi Module (Optional)   53511000000626		Block Gasket	70413008			
MODEL: ASC-18BI Cassette unit: PANEL   1		Nut	70310118			
1       Front Grill       27230012113       1       -         2       Display Board       300001060286       1       AK         3       Corner Cover Sub-assy       209066060003       4       AD         4       Left Axile Bush       10512037       4       AB         5       Step Motor       15729401       1       AG         6       Crankshaft       200023060001       4       AB         7       Corner Cover Sub-assy       209066060002       1       AD         8       Corner Cover Sub-assy       209066060001       3       AD         9       Guide Louver       200004060025       4       AC         10       Front Case       200002060020       1       AP         11       Filter Sub-Assy       111001060046       1       AD		SWM-03 Wi-Fi Module (Optional)	53511000000626			
2       Display Board       300001060286       1       AK         3       Corner Cover Sub-assy       209066060003       4       AD         4       Left Axile Bush       10512037       4       AB         5       Step Motor       15729401       1       AG         6       Crankshaft       200023060001       4       AB         7       Corner Cover Sub-assy       209066060002       1       AD         8       Corner Cover Sub-assy       209066060001       3       AD         9       Guide Louver       200004060025       4       AC         10       Front Case       200002060020       1       AP         11       Filter Sub-Assy       111001060046       1       AD		MODEL: ASC-18BI Casse	tte unit: PANEL			
3         Corner Cover Sub-assy         2090660600003         4         AD           4         Left Axile Bush         10512037         4         AB           5         Step Motor         15729401         1         AG           6         Crankshaft         200023060001         4         AB           7         Corner Cover Sub-assy         209066060002         1         AD           8         Corner Cover Sub-assy         209066060001         3         AD           9         Guide Louver         200004060025         4         AC           10         Front Case         200002060020         1         AP           11         Filter Sub-Assy         111001060046         1         AD	1	Front Grill	27230012113		1	-
4       Left Axile Bush       10512037       4       AB         5       Step Motor       15729401       1       AG         6       Crankshaft       200023060001       4       AB         7       Corner Cover Sub-assy       209066060002       1       AD         8       Corner Cover Sub-assy       209066060001       3       AD         9       Guide Louver       200004060025       4       AC         10       Front Case       200002060020       1       AP         11       Filter Sub-Assy       111001060046       1       AD	2	Display Board	300001060286		1	AK
5         Step Motor         15729401         1         AG           6         Crankshaft         200023060001         4         AB           7         Corner Cover Sub-assy         209066060002         1         AD           8         Corner Cover Sub-assy         209066060001         3         AD           9         Guide Louver         200004060025         4         AC           10         Front Case         200002060020         1         AP           11         Filter Sub-Assy         111001060046         1         AD	3	Corner Cover Sub-assy	209066060003		4	AD
6         Crankshaft         200023060001         4         AB           7         Corner Cover Sub-assy         209066060002         1         AD           8         Corner Cover Sub-assy         209066060001         3         AD           9         Guide Louver         200004060025         4         AC           10         Front Case         200002060020         1         AP           11         Filter Sub-Assy         111001060046         1         AD	4	Left Axile Bush	10512037		4	AB
7       Corner Cover Sub-assy       209066060002       1       AD         8       Corner Cover Sub-assy       209066060001       3       AD         9       Guide Louver       200004060025       4       AC         10       Front Case       200002060020       1       AP         11       Filter Sub-Assy       111001060046       1       AD	5	Step Motor	15729401		1	AG
8       Corner Cover Sub-assy       2090660600001       3       AD         9       Guide Louver       200004060025       4       AC         10       Front Case       200002060020       1       AP         11       Filter Sub-Assy       111001060046       1       AD	6	Crankshaft	200023060001		4	AB
9         Guide Louver         200004060025         4         AC           10         Front Case         200002060020         1         AP           11         Filter Sub-Assy         111001060046         1         AD	7	Corner Cover Sub-assy	209066060002		1	AD
10       Front Case       200002060020       1       AP         11       Filter Sub-Assy       111001060046       1       AD	8	Corner Cover Sub-assy	209066060001		3	AD
11 Filter Sub-Assy 111001060046 1 AD	9	Guide Louver	200004060025		4	AC
	10	Front Case	200002060020		1	AP
12 Front Grill 209059060003_L41419 1 -	11	Filter Sub-Assy	111001060046		1	AD
	12	Front Grill	209059060003_L41419		1	-



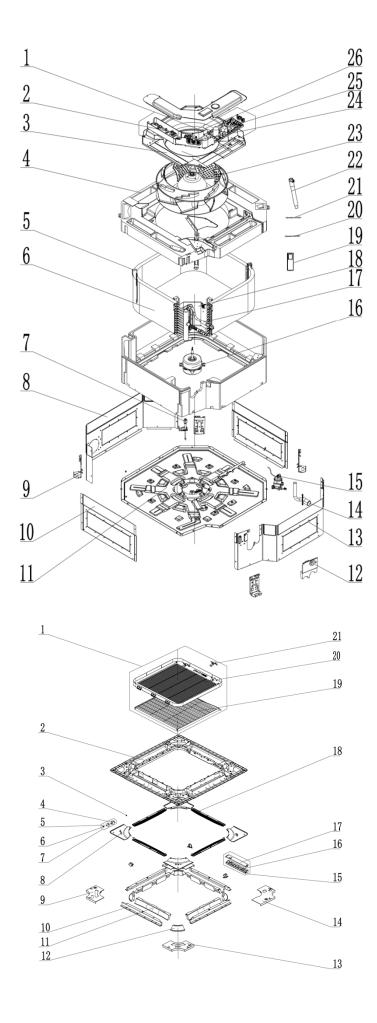
No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASC-24BI C				
1	Electric Box Assy	100002061280		1	BC
2	Terminal Board	42018000551		1	AG
3	Diversion Circle	26909400067		1	AH
4	Water Tray Assy	000069060008		1	AY
5	Centrifugal Fan	10429400004		1	AZ
6	Liquid Level Switch	4502021601		1	AM
7	Body Installing Plate	01332701		4	AC
8	Seal plate Assy	01499400003		1	AD
9	Fixed Mount (Evaporator)	01849400020		3	AC
10	Evaporator Assy	01100100025401		1	BK
11	Side Plate 1	01319400049		1	AN
12	Side Plate 3	01319400051		2	AK
13	Side Plate 2	01319400050		1	AN
14	Base Plate Sub-Assy	02229400011		1	AY
15	Strainer	07213050		1	AF
16	Support	01809400052		1	AG
17	Brushless DC Motor	1570410000702		1	BB
18	Water Pump	43138000058		1	AX
19	Drainage Pipe Sub-Assy	26909400055		1	AH
20	Remote Control	305001060024 L41419		1	-
21	Temperature Sensor	39000453		1	AD
22	Tube sensor	39000286		1	AF
23	Drain Hose Sub-Assy	05232702		1	AH
24	Terminal board	42000100000202		1	AD
25	Filter Board	30221000021		1	AR
26	Main Board	300002060224		1	AZ
20	Remote Holder	2615000701		'	AL.
	Jumper	4202021903			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
	MODEL: ASC-24BI Casse				
1	Front Grill Assy	000142000003 L41419		1	_
2	Front Panel	200003000102		1	AT
3	Left Axile Bush	10512037		4	AB
4	Motor Box	26909460		1	AB
5	Step Motor	15729401		1	AG
6	Crank	10582070		1	AB
7	Louver Motor Sub-assy	15409407		4	AF
8	Corner Cover	200248000004		1	AD
9	Corner Cover	200248000004		1	AD
10	Foam	120000000037		4	AE
11	Foam	12000000037		4	AG
12					AG
13	Foam Cover	120000000036		4	
14	Corner Cover	200248000002		1	AD
	Corner Cover	200248000001		1	AD
15	Receiver Board	30261016		1	AM
16	Display Box Cover	26909455		1	AC
17	Display Box Cover	26909454		1	AC
18	Guide Louver	200004000038		4	AD
19	Filter Sub-Assy	11729405		1	AM
20	Front Grill	27230012114		1	- AD
21	Fastener	200108000005		2	AB



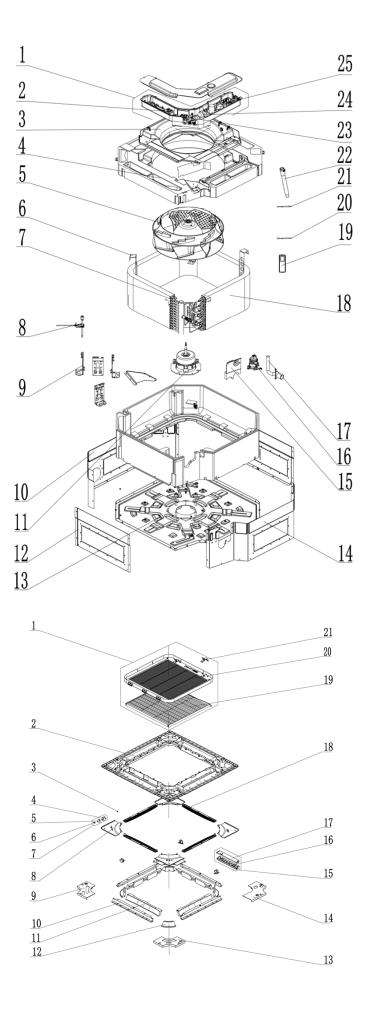
No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASC-30BI C				
1	Electric Box Assy	100002061280		1	BC
2	Terminal Board	42018000551		1	AG
3	Diversion Circle	26909400067		1	AH
4	Water Tray Assy	000069060008		1	AY
5	Centrifugal Fan	10429400004		1	AZ
6	Liquid Level Switch	4502021601		1	AM
7	Body Installing Plate	01332701		4	AC
8	Seal plate Assy	01499400003		1	AD
9	Fixed Mount (Evaporator)	01849400020		3	AC
10	Evaporator Assy	01100100025401		1	BK
11	Side Plate 1	01319400049		1	AN
12	Side Plate 3	01319400051		2	AK
13	Side Plate 2	01319400050		1	AN
14	Base Plate Sub-Assy	02229400011		1	AY
15	Strainer	07213050		1	AF
16	Support	01809400052		1	AG
17	Brushless DC Motor	1570410000702		1	BB
18	Water Pump	43138000058		1	AX
19	Drainage Pipe Sub-Assy	26909400055		1	AH
20	Remote Control	305001060024 L41419		1	-
21	Temperature Sensor	390000453		1	AD
22	Tube sensor	39000286		1	AF
23	Drain Hose Sub-Assy	05232702		1	AH
24	Terminal board	42000100000202		1	AD
25	Filter Board	30221000021		1	AR
26	Main Board	300002060224		1	AZ
20	Remote Holder	2615000701		'	712
	Jumper	4202021904			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
	MODEL: ASC-30BI Casse				ı
1	Front Grill Assy	000142000003 L41419		1	_
2	Front Panel	200003000102		1	AT
3	Left Axile Bush	10512037		4	AB
4	Motor Box	26909460		1	AB
5	Step Motor	15729401		1	AG
6	Crank	10582070		1	AB
7	Louver Motor Sub-assy	15409407		4	AF
8	Corner Cover	200248000004		1	AD
9	Corner Cover	200248000003		1	AD
10	Foam	12000000037		4	AE
11	Foam	120000000035		4	AG
12	Foam	120000000036		4	AF
13	Corner Cover	200248000002		1	AD
14	Corner Cover	200248000001		1	AD
15	Receiver Board	30261016		1	AM
16	Display Box	26909455		1	AC
17	Display Box Cover	26909454		1	AC
18	Guide Louver	200004000038		4	AD
19	Filter Sub-Assy	11729405		1	AM
20	Front Grill	27230012114		1	
21	Fastener	200108000005		2	AB
ZI The de	rasienei	200100000000			אט



No	Description	Part Code	Note	Qty	Price Code
		36BI Cassette unit			•
1	Electric Box Assy	100002061280		1	BC
2	Terminal Board	42018000551		1	AG
3	Diversion Circle	26909400067		1	AH
4	Water Tray Assy	000069060008		1	AY
5	Centrifugal Fan	10429400004		1	AZ
6	Liquid Level Switch	4502021601		1	AM
7	Body Installing Plate	01332701		4	AC
8	Seal plate Assy	01499400003		1	AD
9	Fixed Mount	012078060022		3	AD
10	Evaporator Assy	011001060201		1	BN
11	Side Plate 1	01319400049		1	AN
12	Side Plate 3	01319400051		2	AK
13	Side Plate 2	01319400050		1	AN
14	Base Plate Sub-Assy	02229400011		1	AY
15	Support	012060060787		1	AG
16	Brushless DC Motor	1570410000702		1	BB
17	Water Pump	43138000058		1	AX
18	Drainage Pipe Sub-Assy	26909400055		1	AH
19	Remote Control	305001060024_L41419		1	7 (1 )
20	Temperature Sensor	39000453		1	AD
21	Tube sensor	39000433		1	AF
22	Drain Hose Sub-Assy	05232702		1	AH
23	Terminal board	42000100000202		1	AD
24	Filter Board	30221000021		1	AR
25	Main Board	300002060224		1	AZ
23	Remote Holder	2615000701		1	<u> </u>
	Jumper	4202021905			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
		Cassette unit: PANEL			
1	Front Grill Assy	000142000003 L41419		1	_
2	Front Panel	200003000102		1	AT
3	Left Axile Bush	10512037		4	AB
4	Motor Box	26909460		1	AB
5	Step Motor	15729401		1	AG
6	Crank	10582070		1	AB
7	Louver Motor Sub-assy	15409407		4	AF
8	Corner Cover	200248000004		1	AD
9	Corner Cover	200248000004		1	AD
10	Foam	12000000037		4	AE
11	Foam	12000000037		4	AG
12	Foam	12000000033		4	AG
13	Corner Cover	200248000002		1	
14	Corner Cover	200248000002		1	AD AD
15					
	Receiver Board	30261016		1	AM
16	Display Box	26909455		1	AC
17	Display Box Cover	26909454		1	AC
18	Guide Louver	200004000038		4	AD
19	Filter Sub-Assy	11729405		1	AM
20	Front Grill	27230012114		1	-
21	Fastener	200108000005		2	AB

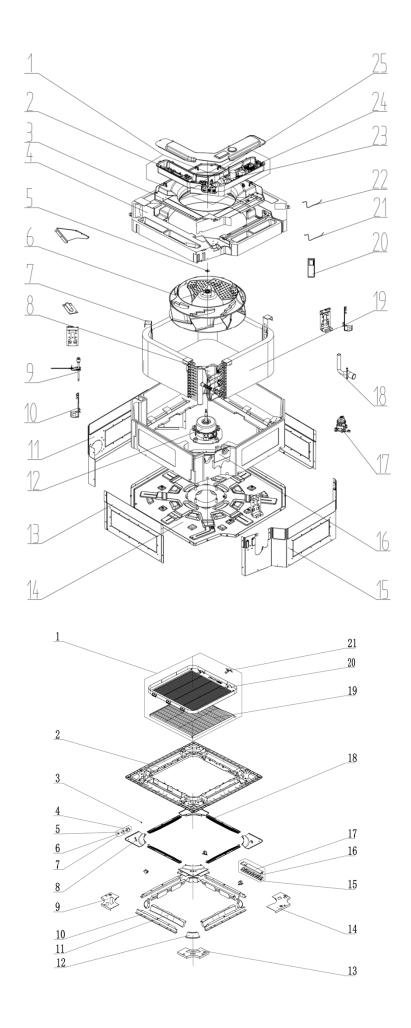


MODEL: ASC-42BI Cassette unit	No	Description	Part Code	Note	Qty	Price Code
Terminal Board		MODEL: ASC-42B	I Cassette unit			
3   Diversion Circle		Electric Box Assy	100002061280		1	BC
Water Tray Assy			42018000551		1	AG
55         Fixed Mount 1 (Evaporator)         01849400007         3         AD           6         Evaporator Assy         011001000225         1         BM           7         Liquid Level Switch         4502021601         1         AM           8         Side Plate 1         01319400025         1         AP           9         Body Installing Plate         01319400036         2         AL           10         Side Plate 3         01319400036         2         AL           11         Base Plate Sub-Assy         02229400011         1         AY           12         Seal plate Assy         01499400001         1         AD           13         Side Plate 2         01319400026         1         AP           14         Drainage Pipe Sub-Assy         26909400055         1         AH           15         Water Pump         43138000058         1         AX           16         Brushless DC Motor         15709400009         1         BF           17         Filter         07415210         1         AH           18         Connection Sheet Assy         01349400025         1         AH           18         Connection Sheet Assy	3	Diversion Circle	10479400002		1	AH
66         Evaporator Assy         011001000225         1         BM           7         Liquid Level Switch         4502021601         1         AM           8         Side Plate 1         01319400025         1         AP           9         Body Installing Plate         01332701         4         AC           10         Side Plate 3         01319400036         2         AL           11         Base Plate Sub-Assy         02229400011         1         AY           12         Seal plate Assy         01499400001         1         AP           13         Side Plate 2         01319400026         1         AP           14         Drainage Pipe Sub-Assy         26909400055         1         AP           15         Water Pump         43138000058         1         AX           16         Brushless DC Motor         1570940009         1         1         AF           17		Water Tray Assy	000069060008		1	AY
7         Liquid Level Switch         4502021601         1         AM           8         Side Plate 1         01319400025         1         AP           9         Body Installing Plate         01332701         4         AC           10         Side Plate 3         01319400036         2         AL           11         Base Plate Sub-Assy         02229400011         1         AY           12         Seal plate Assy         01499400001         1         AD           13         Side Plate 2         01319400026         1         AP           14         Drainage Pipe Sub-Assy         26909400055         1         AH           15         Water Pump         43138000058         1         AX           16         Brushless DC Motor         15709400009         1         BF           17         Filter         07415210         1         AH           18         Connection Sheet Assy         01349400025         1         AH           19         Remote Control         389000453         1         AD           20         Termerature Sensor         39000286         1         AF           19         Temperature Sensor         39000286	5	Fixed Mount 1 (Evaporator)	01849400007		3	AD
Side Plate 1	6	Evaporator Assy	011001000225		1	BM
Sody   Installing Plate	7	Liquid Level Switch	4502021601		1	AM
10	8	Side Plate 1	01319400025		1	AP
10	9	Body Installing Plate	01332701		4	AC
12   Seal plate Assy	10		01319400036		2	AL
12   Seal plate Assy	11	Base Plate Sub-Assy	02229400011		1	AY
13   Side Plate 2		•			_	
14					+	
15   Water Pump						
Brushless DC Motor						
Filter		•			_	
18						
19						
Temperature Sensor   39000453   1   AD						
21         Tube sensor         39000286         1         AF           22         Drain Hose Sub-Assy         05339400001         1         AG           23         Centrigal Fan         10429400003         1         AZ           24         Filter Board         30221000021         1         AR           25         Main Board         300002060224         1         AZ           26         Terminal board         42000100000202         1         AD           Remote Holder         2615000701         1         AD           Jumper         4202021906         1         AD           SWM-03 Wi-Fi Module (Optional)         53511000000626         1         AD           MODEL: ASC-42BI Cassette unit: PANEL           1         Front Grill Assy         00014200003_L41419         1         -           2         Front Panel         200003000102         1         AT           3         Left Axile Bush         10512037         4         AB           4         Motor Box         26909460         1         AB           5         Step Motor         15729401         1         AG           6         Crank         10582070			_			
22         Drain Hose Sub-Assy         05339400001         1         AG           23         Centrifugal Fan         10429400003         1         AZ           24         Filter Board         30221000021         1         AR           25         Main Board         300002060224         1         AZ           26         Terminal board         42000100000202         1         AD           Remote Holder         2615000701         1         AD           Jumper         4202021906         1         SS           SWM-03 Wi-Fi Module (Optional)         5351100000626         1         AD           MODEL: ASC-42BI Cassette unit: PANEL           1         Front Grill Assy         00014200003_41419         1         -           2         Front Panel         200003000102         1         AT           3         Left Axile Bush         10512037         4         AB           4         Motor Box         26909460         1         AB           5         Step Motor         15729401         1         AG           6         Crank         10582070         1         AB           7         Louver Motor Sub-assy         15409407					_	
23         Centrifugal Fan         10429400003         1         AZ           24         Filter Board         30221000021         1         AR           25         Main Board         300002060224         1         AZ           26         Terminal board         42000100000202         1         AD           Remote Holder         2615000701         1         D           Jumper         4202021906         1         AD           SWM-03 Wi-Fi Module (Optional)         53511000000626         1         AT           MODEL: ASC-42BI Cassette unit: PANEL           1         Front Grill Assy         000142000003_L41419         1         -           2         Front Panel         200003000102         1         AT           3         Left Axile Bush         10512037         4         AB           4         Motor Box         26909460         1         AB           5         Step Motor         15729401         1         AG           6         Crank         10582070         1         AB           7         Louver Motor Sub-assy         15409407         4         AF           8         Corner Cover         200248000004						
24         Filter Board         30221000021         1         AR           25         Main Board         300002060224         1         AZ           26         Terminal board         42000100000202         1         AD           Remote Holder         2615000701		· · · · · · · · · · · · · · · · · · ·				
25         Main Board         300002060224         1         AZ           26         Terminal board         42000100000202         1         AD           Remote Holder         2615000701              Jumper         4202021906              SWM-03 Wi-Fi Module (Optional)         53511000000626             MODEL: ASC-42BI Cassette unit: PANEL           1         Front Grill Assy         00014200003_L41419         1         -           2         Front Panel         200003000102         1         AT           3         Left Axile Bush         10512037         4         AB           4         Motor Box         26909460         1         AB           5         Step Motor         15729401         1         AG           6         Crank         10582070         1         AB           7         Louver Motor Sub-assy         15409407         4         AF           8         Corner Cover         200248000003         1         AD           9         Corner Cover         200248000003         1         AD           10         Foa						
26         Terminal board         42000100000202         1         AD           Remote Holder         2615000701             Jumper         4202021906             SWM-03 Wi-Fi Module (Optional)         5351100000626            MODEL: ASC-42BI Cassette unit: PANEL           *** MODEL: ASC-42BI Cassette unit: PANEL           *** Front Grill Assy         00014200003_L41419         1         -         -         -         -         4         AB         -         1         AT         -						
Remote Holder					+	
Jumper	20				ı	AD
SWM-03 Wi-Fi Module (Optional)   5351100000626						
Front Grill Assy		·				
1         Front Grill Assy         000142000003_L41419         1         -           2         Front Panel         200003000102         1         AT           3         Left Axile Bush         10512037         4         AB           4         Motor Box         26909460         1         AB           5         Step Motor         15729401         1         AG           6         Crank         10582070         1         AB           7         Louver Motor Sub-assy         15409407         4         AF           8         Corner Cover         200248000004         1         AD           9         Corner Cover         200248000003         1         AD           10         Foam         120000000037         4         AE           11         Foam         12000000035         4         AF           13         Corner Cover         200248000002         1         AD           14         Corner Cover         200248000001         1         AD           15         Receiver Board         30261016         1         AM           16         Display Box         26909455         1         AC           <						
2       Front Panel       200003000102       1       AT         3       Left Axile Bush       10512037       4       AB         4       Motor Box       26909460       1       AB         5       Step Motor       15729401       1       AG         6       Crank       10582070       1       AB         7       Louver Motor Sub-assy       15409407       4       AF         8       Corner Cover       200248000004       1       AD         9       Corner Cover       200248000003       1       AD         10       Foam       12000000037       4       AE         11       Foam       12000000035       4       AF         13       Corner Cover       200248000002       1       AD         14       Corner Cover       200248000002       1       AD         15       Receiver Board       30261016       1       AM         16       Display Box       26909455       1       AC         17       Display Box Cover       26909454       1       AC         18       Guide Louver       200004000038       4       AD         19       Fi	1				T 1	_
3         Left Axile Bush         10512037         4         AB           4         Motor Box         26909460         1         AB           5         Step Motor         15729401         1         AG           6         Crank         10582070         1         AB           7         Louver Motor Sub-assy         15409407         4         AF           8         Corner Cover         200248000004         1         AD           9         Corner Cover         200248000003         1         AD           10         Foam         120000000037         4         AE           11         Foam         12000000035         4         AF           12         Foam         12000000035         4         AF           13         Corner Cover         200248000002         1         AD           14         Corner Cover         200248000001         1         AD           15         Receiver Board         30261016         1         AM           16         Display Box         26909455         1         AC           17         Display Box Cover         26909454         1         AC           18						ΔΤ
4       Motor Box       26909460       1       AB         5       Step Motor       15729401       1       AG         6       Crank       10582070       1       AB         7       Louver Motor Sub-assy       15409407       4       AF         8       Corner Cover       200248000004       1       AD         9       Corner Cover       200248000003       1       AD         10       Foam       12000000037       4       AE         11       Foam       12000000035       4       AG         12       Foam       12000000036       4       AF         13       Corner Cover       20024800002       1       AD         14       Corner Cover       200248000001       1       AD         15       Receiver Board       30261016       1       AM         16       Display Box       26909455       1       AC         17       Display Box Cover       26909454       1       AC         18       Guide Louver       200004000038       4       AD         19       Filter Sub-Assy       11729405       1       AM         20       Front Gri						
5         Step Motor         15729401         1         AG           6         Crank         10582070         1         AB           7         Louver Motor Sub-assy         15409407         4         AF           8         Corner Cover         200248000004         1         AD           9         Corner Cover         200248000003         1         AD           10         Foam         12000000037         4         AE           11         Foam         12000000035         4         AG           12         Foam         12000000036         4         AF           13         Corner Cover         200248000002         1         AD           14         Corner Cover         200248000001         1         AD           15         Receiver Board         30261016         1         AM           16         Display Box         26909455         1         AC           17         Display Box Cover         26909454         1         AC           18         Guide Louver         200004000038         4         AD           19         Filter Sub-Assy         11729405         1         AM           20 </td <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>					1	
6       Crank       10582070       1       AB         7       Louver Motor Sub-assy       15409407       4       AF         8       Corner Cover       200248000004       1       AD         9       Corner Cover       200248000003       1       AD         10       Foam       12000000037       4       AE         11       Foam       12000000035       4       AG         12       Foam       12000000036       4       AF         13       Corner Cover       200248000002       1       AD         14       Corner Cover       200248000001       1       AD         15       Receiver Board       30261016       1       AM         16       Display Box       26909455       1       AC         17       Display Box Cover       26909454       1       AC         18       Guide Louver       200004000038       4       AD         19       Filter Sub-Assy       11729405       1       AM         20       Front Grill       27230012114       1       -					+	
7         Louver Motor Sub-assy         15409407         4         AF           8         Corner Cover         200248000004         1         AD           9         Corner Cover         200248000003         1         AD           10         Foam         12000000037         4         AE           11         Foam         12000000035         4         AG           12         Foam         12000000036         4         AF           13         Corner Cover         200248000002         1         AD           14         Corner Cover         200248000001         1         AD           15         Receiver Board         30261016         1         AM           16         Display Box         26909455         1         AC           17         Display Box Cover         26909454         1         AC           18         Guide Louver         200004000038         4         AD           19         Filter Sub-Assy         11729405         1         AM           20         Front Grill         27230012114         1         -		·				
8         Corner Cover         200248000004         1         AD           9         Corner Cover         200248000003         1         AD           10         Foam         120000000037         4         AE           11         Foam         120000000035         4         AG           12         Foam         12000000036         4         AF           13         Corner Cover         200248000002         1         AD           14         Corner Cover         200248000001         1         AD           15         Receiver Board         30261016         1         AM           16         Display Box         26909455         1         AC           17         Display Box Cover         26909454         1         AC           18         Guide Louver         200004000038         4         AD           19         Filter Sub-Assy         11729405         1         AM           20         Front Grill         27230012114         1         -						
9       Corner Cover       200248000003       1       AD         10       Foam       12000000037       4       AE         11       Foam       12000000035       4       AG         12       Foam       12000000036       4       AF         13       Corner Cover       200248000002       1       AD         14       Corner Cover       200248000001       1       AD         15       Receiver Board       30261016       1       AM         16       Display Box       26909455       1       AC         17       Display Box Cover       26909454       1       AC         18       Guide Louver       200004000038       4       AD         19       Filter Sub-Assy       11729405       1       AM         20       Front Grill       27230012114       1       -		·			+	
10       Foam       120000000037       4       AE         11       Foam       12000000035       4       AG         12       Foam       12000000036       4       AF         13       Corner Cover       200248000002       1       AD         14       Corner Cover       200248000001       1       AD         15       Receiver Board       30261016       1       AM         16       Display Box       26909455       1       AC         17       Display Box Cover       26909454       1       AC         18       Guide Louver       200004000038       4       AD         19       Filter Sub-Assy       11729405       1       AM         20       Front Grill       27230012114       1       -					_	
11       Foam       120000000035       4       AG         12       Foam       12000000036       4       AF         13       Corner Cover       200248000002       1       AD         14       Corner Cover       200248000001       1       AD         15       Receiver Board       30261016       1       AM         16       Display Box       26909455       1       AC         17       Display Box Cover       26909454       1       AC         18       Guide Louver       200004000038       4       AD         19       Filter Sub-Assy       11729405       1       AM         20       Front Grill       27230012114       1       -						
12       Foam       120000000036       4       AF         13       Corner Cover       200248000002       1       AD         14       Corner Cover       200248000001       1       AD         15       Receiver Board       30261016       1       AM         16       Display Box       26909455       1       AC         17       Display Box Cover       26909454       1       AC         18       Guide Louver       200004000038       4       AD         19       Filter Sub-Assy       11729405       1       AM         20       Front Grill       27230012114       1       -					+	
13       Corner Cover       200248000002       1       AD         14       Corner Cover       200248000001       1       AD         15       Receiver Board       30261016       1       AM         16       Display Box       26909455       1       AC         17       Display Box Cover       26909454       1       AC         18       Guide Louver       200004000038       4       AD         19       Filter Sub-Assy       11729405       1       AM         20       Front Grill       27230012114       1       -						
14       Corner Cover       200248000001       1       AD         15       Receiver Board       30261016       1       AM         16       Display Box       26909455       1       AC         17       Display Box Cover       26909454       1       AC         18       Guide Louver       200004000038       4       AD         19       Filter Sub-Assy       11729405       1       AM         20       Front Grill       27230012114       1       -						
15       Receiver Board       30261016       1       AM         16       Display Box       26909455       1       AC         17       Display Box Cover       26909454       1       AC         18       Guide Louver       200004000038       4       AD         19       Filter Sub-Assy       11729405       1       AM         20       Front Grill       27230012114       1       -						
16       Display Box       26909455       1       AC         17       Display Box Cover       26909454       1       AC         18       Guide Louver       200004000038       4       AD         19       Filter Sub-Assy       11729405       1       AM         20       Front Grill       27230012114       1       -					+	
17       Display Box Cover       26909454       1       AC         18       Guide Louver       200004000038       4       AD         19       Filter Sub-Assy       11729405       1       AM         20       Front Grill       27230012114       1       -					1	
18       Guide Louver       200004000038       4       AD         19       Filter Sub-Assy       11729405       1       AM         20       Front Grill       27230012114       1       -						
19       Filter Sub-Assy       11729405       1       AM         20       Front Grill       27230012114       1       -		• •				
20 Front Grill 27230012114 1 -					_	
						AM
21  Fastener   200108000005						-
Jumper NFW 4202021910	21				2	AB



No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASC-48BI C			T	•
1	Electric Box Assy	100002061280		1	BC
2	Terminal Board	42018000551		1	AG
3	Diversion Circle	10479400002		1	AH
4	Water Tray Assy	000069060008		1	AY
5	Centrifugal Fan	10429400003		1	AZ
6	Evaporator Support	01849406		3	AD
7	Connection Sheet Assy	01249400012		1	AL
8	Liquid Level Switch	4502021601		1	AM
9	Body Installing Plate	01332701		4	AC
10	Side Plate 1	01319400025		1	AP
11	Brushless DC Motor	15709400009		1	BF
12	Side Plate 3	01319400036		2	AL
13	Base Plate Assy	02229400021		1	BB
14	Side Plate 2	01319400026		1	AP
15	Seal plate Assy	01499400001		1	AD
16	Water Pump	43138000058		1	AX
17	Drainage Pipe Sub-Assy	26909400055		1	AH
18	Evaporator Assy	011001060200		1	BS
19	Remote Control	305001060024_L41419		1	-
20	Tube sensor	39000286		1	AF
21	Temperature Sensor	390000453		1	AD
22	Drain Hose	05232044		1	AF
23	Terminal board	42000100000202		1	AD
24	Filter Board	30221000021		1	AR
25	Main Board	300002060224		1	AZ
	Remote Holder	2615000701			, =
	Jumper	4202021907			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
	MODEL: ASC-48BI Casse			<u> </u>	
1	Front Grill Assy	000142000003 L41419		1	_
2	Front Panel	200003000102		1	AT
3	Left Axile Bush	10512037		4	AB
4	Motor Box	26909460		1	AB
5	Step Motor	15729401		1	AG
6	Crank	10582070		1	AB
7	Louver Motor Sub-assy	15409407		4	AF
8	Corner Cover	200248000004		1	AD
9	Corner Cover	200248000003		1	AD
10	Foam	120000000037		4	AE
11	Foam	120000000037		4	AG
12	Foam	120000000000		4	AF
13	Corner Cover	200248000002		1	AD
14	Corner Cover	200248000002		1	AD
15	Receiver Board	30261016		1	AM
16	Display Box	26909455		1	AC
17	Display Box Cover	26909454		1	AC
18	Guide Louver	200004000038		4	AD
19	Filter Sub-Assy	11729405		1	AM
20	Front Grill	27230012114		1	AIVI
21	Fastener	200108000005		2	- AB
۲ ۱	lumper NEW	4202021011			L AD

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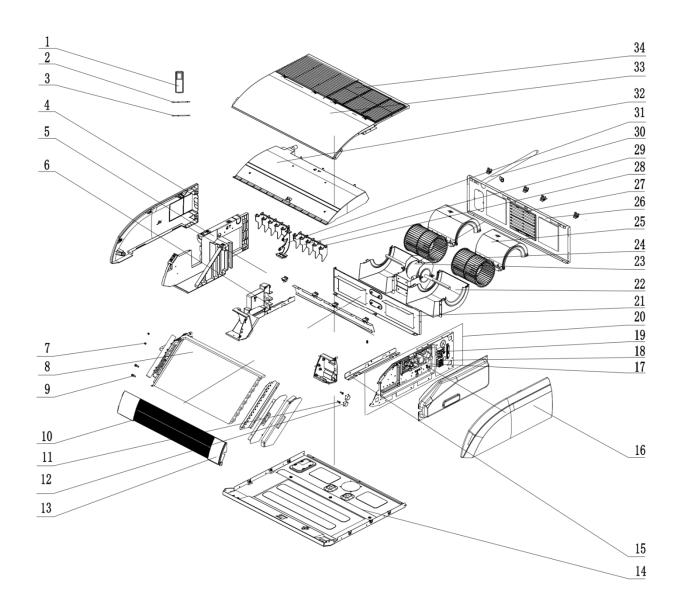
No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASC-60BI	Cassette unit			
1	Electric Box Assy	100002061280		1	BC
2	Terminal Board	42018000551		1	AG
3	Diversion Circle	10479400002		1	AH
4	Water Tray Assy	000069060008		1	AY
5	Fan Fixer	10312701		1	AB
6	Centrifugal Fan	10429400003		1	AZ
7	Evaporator Support	01849406		3	AD
8	Connection Sheet Assy	01249400012		1	AL
9	Liquid Level Switch	4502021601		1	AM
10	Body Installing Plate	01332701		4	AC
11	Side Plate 1	01319400025		1	AP
12	Brushless DC Motor	15709400009		1	BF
13	Side Plate 3	01319400036		2	AL
14	Base Plate Assy	02229400021		1	BB
15	Side Plate 2	01319400026		1	AP
16	Seal plate Assy	01499400001		1	AD
17	Water Pump	43138000058		1	AX
18	Drainage Pipe Sub-Assy	26909400055		1	AH
19	Evaporator Assy	011001060200		1	BS
20	Remote Control	305001060024_L41419		1	_
21	Tube sensor	39000286		1	AF
22	Temperature Sensor	390000453		1	AD
23	Filter Board	30221000021		1	AR
24	Main Board	300002060224		1	AZ
25	Terminal board	42000100000202		1	AD
	Remote Holder	2615000701		•	,
	Jumper	4202021908			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
	MODEL: ASC-60BI Case			I	ı
1	Front Grill Assy	000142000003 L41419		1	_
2	Front Panel	200003000102		1	AT
3	Left Axile Bush	10512037		4	AB
4	Motor Box	26909460		1	AB
5	Step Motor	15729401		1	AG
6	Crank	10582070		1	AB
7	Louver Motor Sub-assy	15409407		4	AF
8	Corner Cover	200248000004		1	AD
9	Corner Cover	200248000003		1	AD
10	Foam	120000000037		4	AE
11	Foam	12000000037		4	AG
12	Foam	12000000033		4	AF
13	Corner Cover	200248000002		1	AD
14	Corner Cover	200248000002		1	AD
15	Receiver Board	30261016		1	AM
16	Display Box	26909455		1	AC
17	Display Box Cover	26909454		1	AC
18	Guide Louver	200004000038		4	AD
19		11729405			
20	Filter Sub-Assy Front Grill	27230012114		1	AM
21	Fastener	200108000005		2	- A D
<b>∠</b> I	Jumper NFW	4202021912			AB



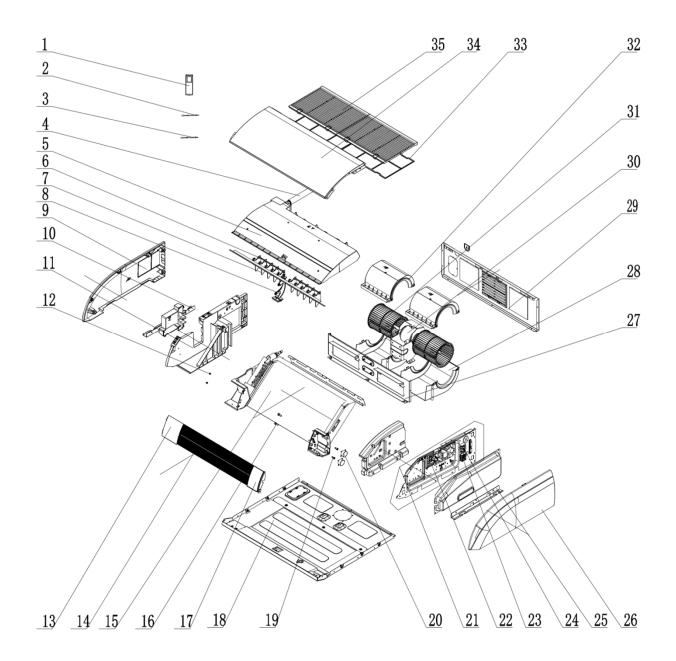
### **UNI SPLIT SERIES**

**ASF-XXBI** 



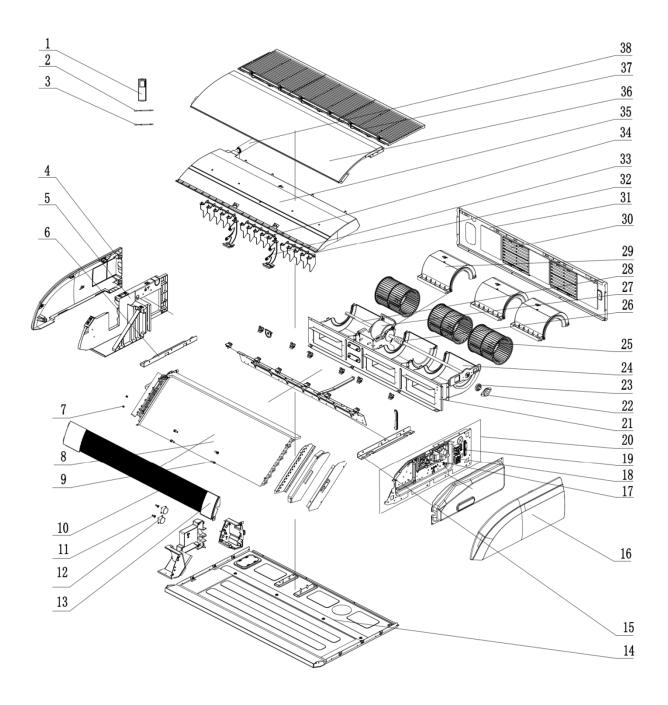


Note	Code
2         Ambient Temperature Sensor         3900012123         1         A           3         Temperature Sensor         390001923         1         A           4         Right Cover Plate         none         0            5         Right Side Plate         2690940007101         1            6         Installation Supporting Frame         01809402         1         A           7         Axile Bush         10542704         2         A           8         Evaporator Assy         011001060234         1            9         Rotating Shaft         26909430         2         A           10         Guide Louver         20000400040601         2            11         Crankshaft         200023000001         2         A           12         Stepping Motor         1521240215         2         A           13         Display Board         3029400009         1         A           14         Base Plate Assy         011007060037         1         A           15         Installation Supporting Frame         01809401         1         A           16         Left Cover Plate         none	
3         Temperature Sensor         390001923         1         A           4         Right Cover Plate         none         0           5         Right Side Plate         2690940007101         1           6         Installation Supporting Frame         01809402         1         A           7         Axile Bush         10542704         2         A           8         Evaporator Assy         011001060234         1         -           9         Rotating Shaft         26909430         2         A           10         Guide Louver         20000400004601         2         -           11         Crankshaft         200023000001         2         A           12         Stepping Motor         1521240215         2         A           13         Display Board         30294000009         1         A           14         Base Plate Assy         011007060037         1         A           15         Installation Supporting Frame         01809401         1         A           16         Left Cover Plate         none         0         1           17         Main Board         300002060226         1         A	
4         Right Cover Plate         none         0           5         Right Side Plate         2690940007101         1           6         Installation Supporting Frame         01809402         1         A           7         Axile Bush         10542704         2         A           8         Evaporator Assy         011001060234         1         -           9         Rotating Shaft         26909430         2         A           10         Guide Louver         20000400004601         2         -           11         Crankshaft         200023000001         2         A           12         Stepping Motor         1521240215         2         A           13         Display Board         30294000009         1         A           14         Base Plate Assy         011007060037         1         -           15         Installation Supporting Frame         01809401         1         A           16         Left Cover Plate         none         0         -           17         Main Board         300002060226         1         A           18         Terminal Board         42018000551         1         A	5
5         Right Side Plate         2690940007101         1           6         Installation Supporting Frame         01809402         1         A           7         Axile Bush         10542704         2         A           8         Evaporator Assy         011001060234         1         -           9         Rotating Shaft         26909430         2         A           10         Guide Louver         2000040004601         2         -           11         Crankshaft         200023000001         2         A           12         Stepping Motor         1521240215         2         A           13         Display Board         30294000009         1         A           14         Base Plate Assy         011007060037         1         -           15         Installation Supporting Frame         01809401         1         A           16         Left Cover Plate         none         0         -           17         Main Board         300002060226         1         A           18         Terminal Board         42018000551         1         A           19         Terminal Board         4200010000204         1         - <td>5</td>	5
6         Installation Supporting Frame         01809402         1         A           7         Axile Bush         10542704         2         A           8         Evaporator Assy         011001060234         1            9         Rotating Shaft         26909430         2         A           10         Guide Louver         2000040004601         2            11         Crankshaft         200023000001         2         A           12         Stepping Motor         1521240215         2         A           13         Display Board         30294000009         1         A           14         Base Plate Assy         011007060037         1            15         Installation Supporting Frame         01809401         1         A           16         Left Cover Plate         none         0            17         Main Board         300002060226         1         A           18         Terminal Board         42018000551         1         A           19         Terminal Board         42000100000204         1            20         Electric Box Assy         100002003030         <	
7         Axile Bush         10542704         2         A           8         Evaporator Assy         011001060234         1         -           9         Rotating Shaft         26909430         2         A           10         Guide Louver         20000400004601         2         -           11         Crankshaft         200023000001         2         A           12         Stepping Motor         1521240215         2         A           13         Display Board         30294000009         1         A           14         Base Plate Assy         011007060037         1         -           15         Installation Supporting Frame         01809401         1         A           16         Left Cover Plate         none         0         -           17         Main Board         300002060226         1         A           18         Terminal Board         4201800551         1         A           19         Terminal Board         420010000204         1         -           20         Electric Box Assy         100002003030         1         -           21         Clapboard Sub-Assy         017021000088         1	
8       Evaporator Assy       011001060234       1         9       Rotating Shaft       26909430       2       A         10       Guide Louver       20000400004601       2          11       Crankshaft       200023000001       2       A         12       Stepping Motor       1521240215       2       A         13       Display Board       30294000009       1       A         14       Base Plate Assy       011007060037       1          15       Installation Supporting Frame       01809401       1       A         16       Left Cover Plate       none       0          17       Main Board       300002060226       1       A         18       Terminal Board       42018000551       1       A         19       Terminal Board       4200010000204       1          20       Electric Box Assy       10000203030       1          21       Clapboard Sub-Assy       01702100008       1       A         22       Propeller Housing(Lower)       200230000001       2       A         23       Brushless DC Motor       15706000037       1 <td>-</td>	-
9         Rotating Shaft         26909430         2         A           10         Guide Louver         20000400004601         2	3
10         Guide Louver         20000400004601         2           11         Crankshaft         200023000001         2         A           12         Stepping Motor         1521240215         2         A           13         Display Board         30294000009         1         A           14         Base Plate Assy         011007060037         1         -           15         Installation Supporting Frame         01809401         1         A           16         Left Cover Plate         none         0         -           17         Main Board         300002060226         1         A           18         Terminal Board         42018000551         1         A           19         Terminal Board         42000100000204         1         -           20         Electric Box Assy         100002003030         1         -           21         Clapboard Sub-Assy         017021000088         1         A           22         Propeller Housing(Lower)         200230000001         2         A           23         Brushless DC Motor         15706000037         1         -           24         Centifugal Fan         103003000001 <td< td=""><td></td></td<>	
11         Crankshaft         200023000001         2         A           12         Stepping Motor         1521240215         2         A           13         Display Board         30294000009         1         A           14         Base Plate Assy         011007060037         1         -           15         Installation Supporting Frame         01809401         1         A           16         Left Cover Plate         none         0         -           17         Main Board         300002060226         1         A           18         Terminal Board         42018000551         1         A           19         Terminal Board         42000100000204         1         -           20         Electric Box Assy         100002003030         1         -           21         Clapboard Sub-Assy         017021000088         1         A           22         Propeller Housing(Lower)         200230000001         2         A           23         Brushless DC Motor         15706000037         1         -           24         Centifugal Fan         103003000001         2         A	3
12       Stepping Motor       1521240215       2       A         13       Display Board       30294000009       1       A         14       Base Plate Assy       011007060037       1       -         15       Installation Supporting Frame       01809401       1       A         16       Left Cover Plate       none       0       -         17       Main Board       300002060226       1       A         18       Terminal Board       42018000551       1       A         19       Terminal Board       42000100000204       1       -         20       Electric Box Assy       100002003030       1       -         21       Clapboard Sub-Assy       017021000088       1       A         22       Propeller Housing(Lower)       200230000001       2       A         23       Brushless DC Motor       15706000037       1       -         24       Centifugal Fan       103003000001       2       A	
13         Display Board         30294000009         1         A           14         Base Plate Assy         011007060037         1         -           15         Installation Supporting Frame         01809401         1         A           16         Left Cover Plate         none         0         -           17         Main Board         300002060226         1         A           18         Terminal Board         42018000551         1         A           19         Terminal Board         42000100000204         1         -           20         Electric Box Assy         100002003030         1         -           21         Clapboard Sub-Assy         017021000088         1         A           22         Propeller Housing(Lower)         200230000001         2         A           23         Brushless DC Motor         15706000037         1         -           24         Centifugal Fan         103003000001         2         A	3
14         Base Plate Assy         011007060037         1           15         Installation Supporting Frame         01809401         1         A           16         Left Cover Plate         none         0         -           17         Main Board         300002060226         1         A           18         Terminal Board         42018000551         1         A           19         Terminal Board         42000100000204         1         -           20         Electric Box Assy         100002003030         1         -           21         Clapboard Sub-Assy         017021000088         1         A           22         Propeller Housing(Lower)         200230000001         2         A           23         Brushless DC Motor         15706000037         1         -           24         Centifugal Fan         103003000001         2         A	4
15         Installation Supporting Frame         01809401         1         A           16         Left Cover Plate         none         0         -           17         Main Board         300002060226         1         A           18         Terminal Board         42018000551         1         A           19         Terminal Board         42000100000204         1         -           20         Electric Box Assy         100002003030         1         -           21         Clapboard Sub-Assy         017021000088         1         A           22         Propeller Housing(Lower)         200230000001         2         A           23         Brushless DC Motor         15706000037         1         -           24         Centifugal Fan         103003000001         2         A	₹
16         Left Cover Plate         none         0           17         Main Board         300002060226         1         A           18         Terminal Board         42018000551         1         A           19         Terminal Board         42000100000204         1         -           20         Electric Box Assy         100002003030         1         -           21         Clapboard Sub-Assy         017021000088         1         A           22         Propeller Housing(Lower)         200230000001         2         A           23         Brushless DC Motor         15706000037         1         -           24         Centifugal Fan         103003000001         2         A	
17       Main Board       300002060226       1       A         18       Terminal Board       42018000551       1       A         19       Terminal Board       42000100000204       1       -         20       Electric Box Assy       100002003030       1       -         21       Clapboard Sub-Assy       017021000088       1       A         22       Propeller Housing(Lower)       200230000001       2       A         23       Brushless DC Motor       15706000037       1       -         24       Centifugal Fan       103003000001       2       A	<
18         Terminal Board         42018000551         1         A           19         Terminal Board         42000100000204         1         -           20         Electric Box Assy         100002003030         1         -           21         Clapboard Sub-Assy         017021000088         1         A           22         Propeller Housing(Lower)         200230000001         2         A           23         Brushless DC Motor         15706000037         1         -           24         Centifugal Fan         103003000001         2         A	
19         Terminal Board         42000100000204         1           20         Electric Box Assy         100002003030         1           21         Clapboard Sub-Assy         017021000088         1         A           22         Propeller Housing(Lower)         200230000001         2         A           23         Brushless DC Motor         15706000037         1         -           24         Centifugal Fan         103003000001         2         A	<u>z</u>
20       Electric Box Assy       100002003030       1         21       Clapboard Sub-Assy       017021000088       1       A         22       Propeller Housing(Lower)       200230000001       2       A         23       Brushless DC Motor       15706000037       1       -         24       Centifugal Fan       103003000001       2       A	3
21       Clapboard Sub-Assy       017021000088       1       A         22       Propeller Housing(Lower)       200230000001       2       A         23       Brushless DC Motor       15706000037       1       -         24       Centifugal Fan       103003000001       2       A	
22         Propeller Housing(Lower)         200230000001         2         A           23         Brushless DC Motor         15706000037         1         -           24         Centifugal Fan         103003000001         2         A	
23         Brushless DC Motor         15706000037         1         -           24         Centifugal Fan         103003000001         2         A	
24 Centifugal Fan 103003000001 2 A	<del>(</del>
ů – v	
25 Propeller Housing(Upper) 200230000002 2 A	√l
1	<del>(</del>
26 Rear Side Plate Sub-Assy 017051000046 1 A	√l
27 Filter Sub-assy(Rear Side Plate) 111001000001 1 A	5
28 Swing Lever 10582009 2 A	3
29 Air Louver 20000700000101 10 A	<u> </u>
30 Drainage Pipe Sub-assy 05235434 1 A	Ξ
31 Support 2690940007601 1 -	
32 Water Tray 200063000024 1 A	5
33 Top Cover 012148000046P01 1 -	
34 Front Grill Sub-assy 20022600000401 2	
Remote Holder 2615000701	
SWM-03 Wi-Fi Module (Optional) 53511000000626	

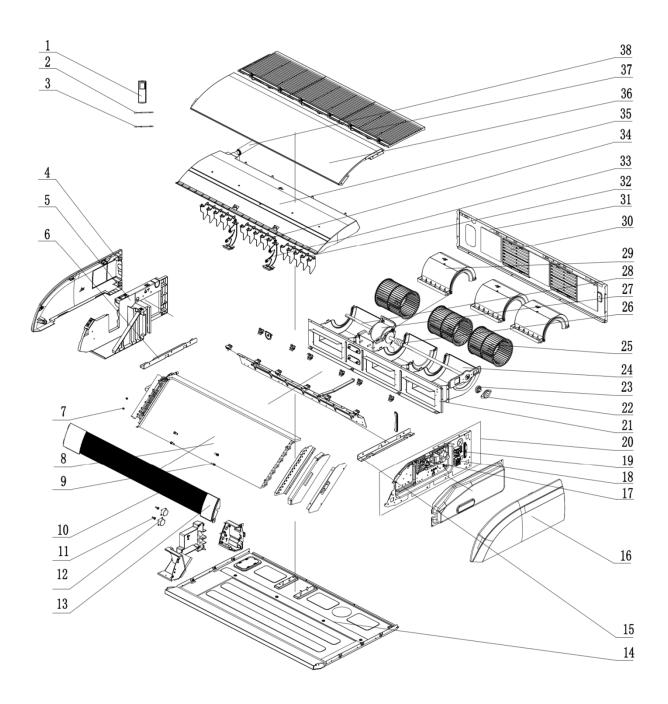


No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASF-18BI F	loor-ceiling unit			
1	Remote Control	305001060024_L41419		1	-
2	Temperature Sensor	390001923		1	AD
3	Ambient Temperature Sensor	3900012123		1	AD
4	Drainage Pipe Sub-assy	05235434		1	AE
5	Water Tray	200063000024		1	AP
6	Swing Lever	10582009		2	AB
7	Air Louver	20000700000101		10	-
8	Support	2690940007601		1	-
9	Right Cover Plate	none		0	-
10	Installation Supporting Frame	01809402		1	AF
11	Right Side Plate	2690940007101		1	-
12	Axile Bush	10542704		2	AB
13	Front Panel	20000300000101		1	-
14	Guide Louver	20000400004601		2	-
15	Evaporator Assy	011001000497		1	-
16	Rotating Shaft	26909430		2	AB
17	Display Board	30294000009		1	AR
18	Base Plate Assy	011007060037		1	-
19	Crankshaft	200023000001		2	AB
20	Stepping Motor	1521240215		2	AH
21	Electric Box Assy	100002003030		1	-
22	Main Board	300002060226		1	AZ
23	Terminal Board	42018000551		1	AG
24	Terminal Board	42000100000204		1	-
25	Installation Supporting Frame	01809401		1	AK
26	Left Cover Plate	none		0	-
27	Clapboard Sub-Assy	017021000088		1	AL
28	Propeller Housing(Lower)	200230000001		2	AK
29	Rear Side Plate Sub-Assy	017051000046		1	AM
30	Brushless DC Motor	15706000037		1	-
31	Centifugal Fan	103003000001		2	AM
32	Propeller Housing(Upper)	200230000002		2	AK
33	Filter Sub-Assy	111001000072		2	-
34	Top Cover	012148000046P01		1	-
35	Front Grill	20022600000401		2	-
	Remote Holder	2615000701			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
	\-1 /				

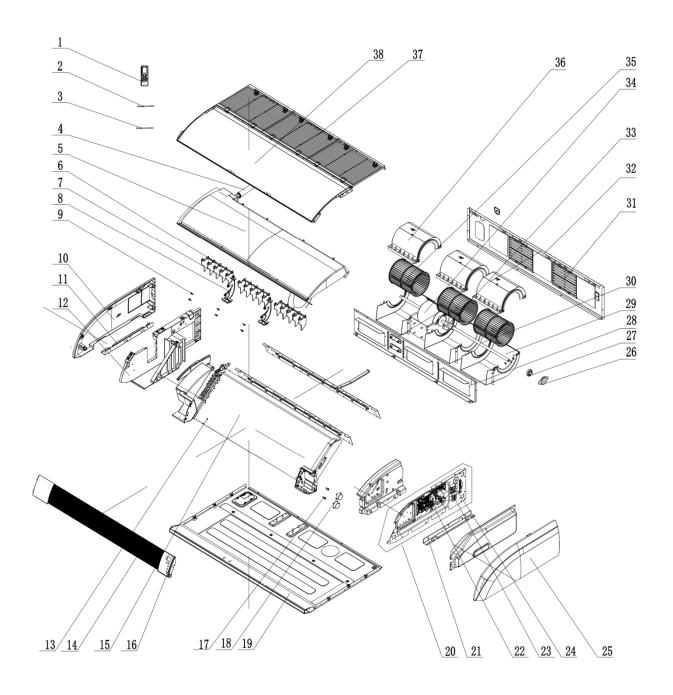
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No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASF-24Bl Floor-ceiling unit				
1	Remote Control	305001060024_L41419		1	-
2	Ambient Temperature Sensor	3900012123		1	AD
3	Temperature Sensor	390001923		1	AD
4	Right Cover Plate	none		0	-
5	Right Side Plate	2690940007101		1	-
6	Installation Supporting Frame	01809402		1	AF
7	Axile Bush	10542704		2	AB
8	Evaporator Assy	011001000201		1	BF
9	Rotating Shaft	26909430		4	AB
10	Guide Louver	20000450042201		2	-
11	Crankshaft	200023000001		2	AB
12	Stepping Motor	1521240215		2	AH
13	Display Board	30294000009		1	AR
14	Base Plate Assy	011007000038		1	-
15	Installation Supporting Frame	01809401		1	AK
16	Left Cover Plate	none		0	-
17	Main Board	300002060226		1	AZ
18	Terminal Board	42018000551		1	AG
19	Terminal board	42000100000204		1	-
20	Electric Box Assy	100002003030		1	-
21	Clapboard Sub-Assy	01249400018		1	AN
22	Support Of Motor Bearing	01792408		1	AB
23	O-Gasket of Bearing	76512404		1	AC
24	Propeller Housing(Lower)	200230000001		3	AK
25	Centifugal Fan	103003000001		3	AM
26	Joint Slack	73018731		1	AK
27	Brushless DC Motor	1570520000501		1	BK
28	转动轴	700004500433		1	AP
29	Propeller Housing(Upper)	200230000002		3	AK
30	Filter Sub-assy(Rear Side Plate)	111001000001		2	AD
31	Rear Side Plate Sub-Assy	017051000005		1	AP
32	Swing Lever	10582009		3	AB
33	Support	2690940007601		2	-
34	Air Louver	20000700000101		15	-
35	Water Tray	200063000003		1	AQ
36	Top Cover	01269400012P01		1	-
37	Front Grill	2690940007201		1	-
38	Drainage Pipe Sub-assy	05235434		1	AE
	Remote Holder	2615000701			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			

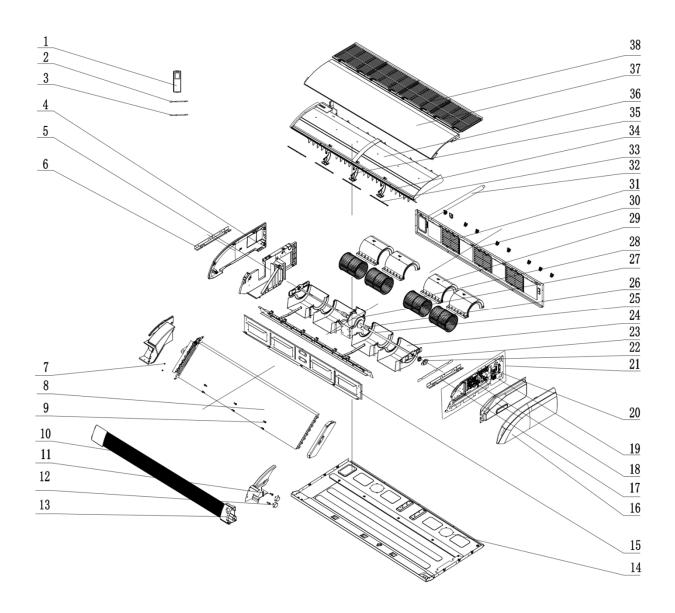


No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASF-30BI	Floor-ceiling unit			
1	Remote Control	305001060024_L41419		1	-
2	Ambient Temperature Sensor	3900012123		1	AD
3	Temperature Sensor	390001923		1	AD
4	Right Cover Plate	none		0	-
5	Right Side Plate	2690940007101		1	-
6	Installation Supporting Frame	01809402		1	AF
7	Axile Bush	10542704		2	AB
8	Evaporator Assy	011001000201		1	BF
9	Rotating Shaft	26909430		4	AB
10	Guide Louver	20000450042201		2	-
11	Crankshaft	200023000001		2	AB
12	Stepping Motor	1521240215		2	AH
13	Display Board	30294000009		1	AR
14	Base Plate Assy	011007000038		1	-
15	Installation Supporting Frame	01809401		1	AK
16	Left Cover Plate	none		0	-
17	Main Board	300002060226		1	AZ
18	Terminal Board	42018000551		1	AG
19	Terminal board	42000100000204		1	-
20	Electric Box Assy	100002003030		1	-
21	Clapboard Sub-Assy	01249400018		1	AN
22	Support Of Motor Bearing	01792408		1	AB
23	O-Gasket of Bearing	76512404		1	AC
24	Propeller Housing (Lower)	200230000001		3	AK
25	Centifugal Fan	103003000001		3	AM
26	Joint Slack	73018731		1	AK
27	Brushless DC Motor	1570520000501		1	BK
28	Roller Wheel	700004500433		1	AP
29	Propeller Housing (Upper)	200230000002		3	AK
30	Filter Sub-assy (Rear Side Plate)	111001000001		2	AD
31	Rear Side Plate Sub-Assy	017051000005		1	AP
32	Swing Lever	10582009		3	AB
33	Support	2690940007601		2	-
34	Air Louver	20000700000101		15	-
35	Water Tray	200063000003		1	AQ
36	Top Cover	01269400012P01		1	-
37	Front Grill	2690940007201		1	-
38	Drainage Pipe Sub-assy	05235434		1	AE
	Remote Holder	2615000701			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			

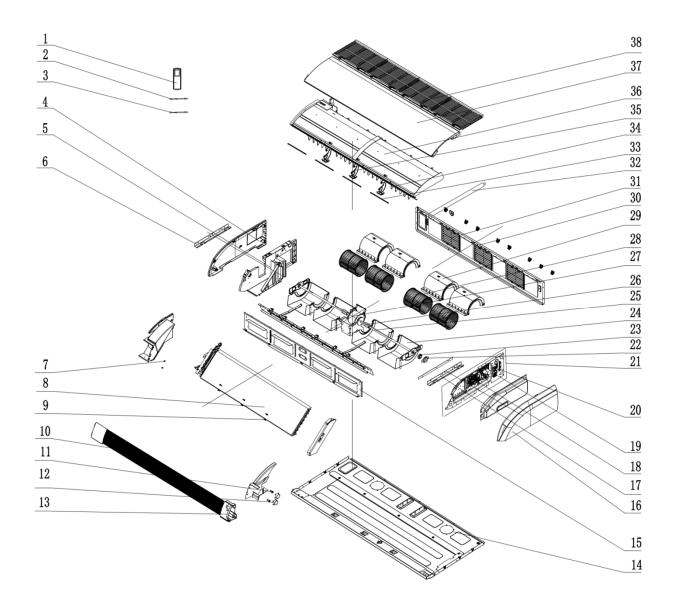


No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASF-36BI	Floor-ceiling unit			•
1	Remote Control	305001060024_L41419		1	-
2	Temperature Sensor	390001923		1	AD
3	Ambient Temperature Sensor	3900012123		1	AD
4	Drainage Pipe Sub-assy	05235434		1	AE
5	Water Tray	200063000003		1	AQ
6	Swing Lever	10582009		3	AB
7	Air Louver	20000700000101		15	-
8	Support	2690940007601		2	-
9	Rotating Shaft	26909430		4	AB
10	Right Cover Plate	none		0	-
11	Installation Supporting Frame	01809402		1	AF
12	Right Side Plate	26909400074		1	AL
13	Axile Bush	10542704		2	AB
14	Guide Louver	20000450042201		2	-
15	Evaporator Assy	011001060078		1	-
16	Display Board	30294000009		1	AR
17	Crankshaft	200023000001		2	AB
18	Stepping Motor	1521240215		2	AH
19	Base Plate Assy	011007000038		1	-
20	Electric Box Assy	100002003030		1	-
21	Installation Supporting Frame	01809401		1	AK
22	Main Board	300002060226		1	AZ
23	Terminal Board	42018000551		1	AG
24	Terminal Board	42000100000204		1	-
25	Left Cover Plate	none		0	-
26	Support Of Motor Bearing	01792408		1	AB
27	O-Gasket of Bearing	76512404		1	AC
28	Clapboard Assy	000075000040		1	-
29	Propeller Housing(Lower)	200230000001		3	AK
30	Rotary Axis	700004500433		1	AP
31	Filter Sub-assy(Rear Side Plate)	111001000001		2	AD
32	Rear Side Plate Sub-Assy	017051000005		1	AP
33	Joint Slack	73018731		1	AK
34	Brushless DC Motor	1570520000501		1	BK
35	Centifugal Fan	103003000001		3	AM
36	Propeller Housing(Upper)	200230000002		3	AK
37	Front Grill Sub-Assy	2690940006601		3	-
38	Top Cover	01269400012P01		1	-
	Remote Holder	2615000701			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
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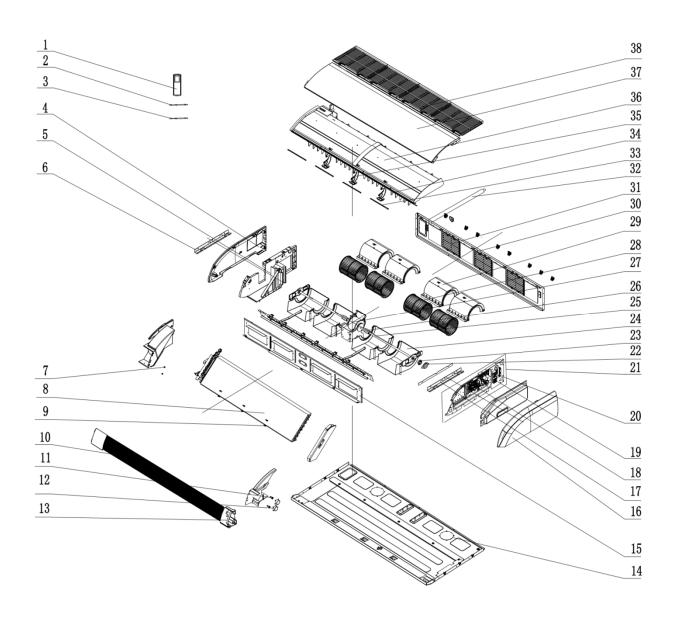
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No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASF-42	2Bl Floor-ceiling unit			
1	Remote Control	305001060024_L41419		1	-
2	Ambient Temperature Sensor	3900012123		1	AD
3	Tube sensor	3900020720G		1	AD
4	Right Cover Plate	none		0	-
5	Right Side Plate	2690940007101		1	-
6	Installation Supporting Frame	01809402		1	AF
7	Axile Bush	10542704		2	AB
8	Evaporator Assy	011001060178		1	-
9	Rotating Shaft	26909430		6	AB
10	Guide Louver	20000450042601		2	-
11	Crankshaft	200023000001		2	AB
12	Stepping Motor	1521240215		2	AH
13	Display Board	30294000009		1	AR
14	Base Plate Assy	011007060032		1	-
15	Clapboard Sub-Assy	01249400019		1	AS
16	Left Cover Plate	none		0	-
17	Installation Supporting Frame	01809401		1	AK
18	Main Board	300002060226		1	AZ
19	Terminal Board	42018000551		1	AG
20	Terminal Board	42000100000204		1	-
21	Electric Box Assy	100002063110		1	-
22	Support Of Motor Bearing	01792408		2	AB
23	O-Gasket of Bearing	76512404		1	AC
24	Propeller Housing(Lower)	200230000001		4	AK
25	Roller Wheel	700004000001		2	AP
26	Joint Slack	73018731		2	AK
27	Brushless DC Motor	15709400005		1	BN
28	Centifugal Fan	103003000001		4	AM
29	Propeller Housing (Upper)	200230000002		4	AK
30	Rear Side Plate Sub-Assy	017051000006		1	AS
31	Filter Sub-assy (Rear Side Plate)	111001000001		3	AD
32	Drainage Pipe Sub-assy	05235434		1	AE
33	Swing Lever	10582009		4	AB
34	Air Louver	20000700000101		20	-
35	Support	2690940007601		3	-
36	Water Tray	200063000002		1	AT
37	Top Cover	01269400013P01		1	-
38	Front Grill Sub-assy	2690940006601		4	-
	Remote Holder	2615000701			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
	lumper NEW	4202021021			1



No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASF-48BI	Floor-ceiling unit			•
1	Remote Control	305001060024_L41419		1	-
2	Ambient Temperature Sensor	3900012123		1	AD
3	Tube sensor	3900020720G		1	AD
4	Right Cover Plate	none		0	-
5	Right Side Plate	2690940007101		1	-
6	Installation Supporting Frame	01809402		1	AF
7	Axile Bush	10542704		2	AB
8	Evaporator Assy	011001060177		1	-
9	Rotating Shaft	26909430		6	AB
10	Guide Louver	20000450042601		2	-
11	Crankshaft	200023000001		2	AB
12	Stepping Motor	1521240215		2	AH
13	Display Board	30294000009		1	AR
14	Base Plate Assy	011007060032		1	-
15	Clapboard Sub-Assy	01249400019		1	AS
16	Left Cover Plate	none		0	-
17	Installation Supporting Frame	01809401		1	AK
18	Main Board	300002060226		1	AZ
19	Terminal Board	42018000551		1	AG
20	Terminal Board	42000100000204		1	-
21	Electric Box Assy	100002063110		1	-
22	Support Of Motor Bearing	01792408		2	AB
23	O-Gasket of Bearing	76512404		1	AC
24	Propeller Housing (Lower)	200230000001		4	AK
25	Roller Wheel	700004000001		2	AP
26	Joint Slack	73018731		2	AK
27	Brushless DC Motor	15709400005		1	BN
28	Centifugal Fan	103003000001		4	AM
29	Propeller Housing (Upper)	200230000002		4	AK
30	Rear Side Plate Sub-Assy	017051000006		1	AS
31	Filter Sub-assy (Rear Side Plate)	111001000001		3	AD
32	Drainage Pipe Sub-assy	05235434		1	AE
33	Swing Lever	10582009		4	AB
34	Air Louver	20000700000101		20	-
35	Supporter (Guide Louver)	2690940007601		3	-
36	Water Tray	200063000002		1	AT
37	Top Cover	01269400013P01		1	-
38	Front Grill Sub-assy	2690940006601		4	-
	Remote Holder	2615000701			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
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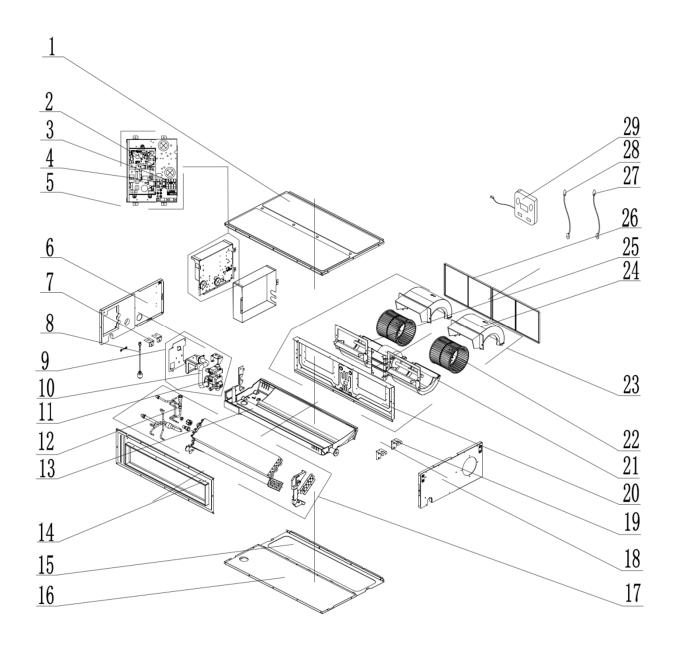
No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASF-60BI	Floor-ceiling unit			•
1	Remote Control	305001060024_L41419		1	-
2	Ambient Temperature Sensor	3900012123		1	AD
3	Tube sensor	3900020720G		1	AD
4	Right Cover Plate	none		0	-
5	Right Side Plate	2690940007101		1	-
6	Installation Supporting Frame	01809402		1	AF
7	Axile Bush	10542704		2	AB
8	Evaporator Assy	011001060177		1	-
9	Rotating Shaft	26909430		6	AB
10	Guide Louver	20000450042601		2	-
11	Crankshaft	200023000001		2	AB
12	Stepping Motor	1521240215		2	AH
13	Display Board	30294000009		1	AR
14	Base Plate Assy	011007060032		1	-
15	Clapboard Sub-Assy	01249400019		1	AS
16	Left Cover Plate	none		0	-
17	Installation Supporting Frame	01809401		1	AK
18	Main Board	300002060226		1	AZ
19	Terminal Board	42018000551		1	AG
20	Terminal Board	42000100000204		1	-
21	Electric Box Assy	100002063110		1	-
22	Support Of Motor Bearing	01792408		2	AB
23	O-Gasket of Bearing	76512404		1	AC
24	Propeller Housing (Lower)	200230000001		4	AK
25	Roller Wheel	700004000001		2	AP
26	Joint Slack	73018731		2	AK
27	Brushless DC Motor	15709400005		1	BN
28	Centifugal Fan	103003000001		4	AM
29	Propeller Housing (Upper)	200230000002		4	AK
30	Rear Side Plate Sub-Assy	017051000006		1	AS
31	Filter Sub-assy (Rear Side Plate)	111001000001		3	AD
32	Drainage Pipe Sub-assy	05235434		1	AE
33	Swing Lever	10582009		4	AB
34	Air Louver	20000700000101		20	-
35	Supporter (Guide Louver)	2690940007601		3	-
36	Water Tray	200063000002		1	AT
37	Top Cover	01269400013P01		1	-
38	Front Grill Sub-assy	2690940006601		4	-
	Remote Holder	2615000701			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
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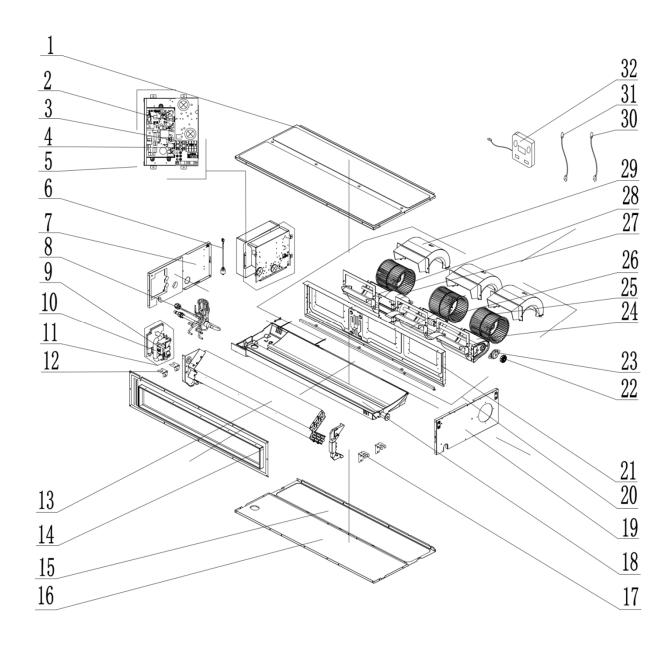
## **UNI SPLIT SERIES**

**ASD-XXBI** 

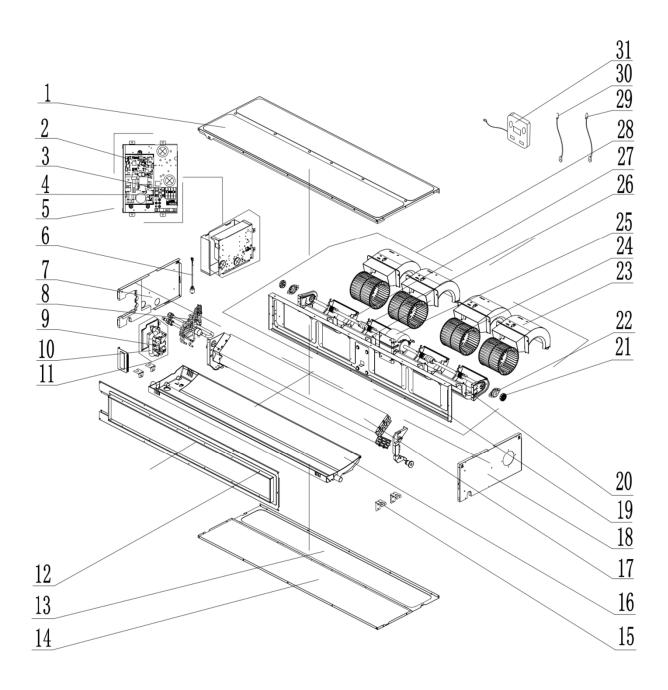




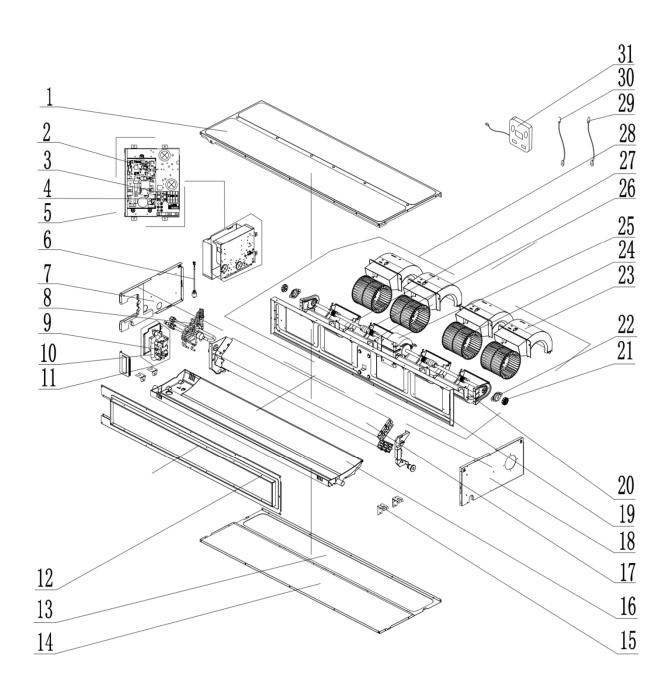
No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASD-12B	Duct unit			•
1	Top Cover Board Assy	01265200066		1	AS
2	Main Board	300002060223		1	AY
3	Terminal Board	42018000551		1	AG
4	Terminal Board	42011106		1	AE
5	Electric Box Assy	100002002911		1	BA
6	Left Side Plate Assy	000080000022		1	AL
7	Hook 2	01344100034		2	AC
8	Liquid Level Switch	430024000005		1	AL
9	Water Pump Assy	000104060009		1	AX
10	Drainage Pipe(Rubber)	760022000001		1	AK
11	Water Pump	812007060016		1	AT
12	Strainer	0721200102		1	AE
13	Water Tray Assy	01285200020		1	AQ
14	Air Outlet Frame Assy	01374100057		1	AL
15	Cover Plate	01265200057		1	AK
16	Bottom Cover Plate Assy	01264100102		1	AL
17	Evaporator Assy	011001000474		1	BB
18	Right Side Plate Assy	01315200053		1	AL
19	Hook	02112446		2	AD
20	Blower Mounting Plate Sub-Assy	01325200034		1	AM
21	Brushless DC Motor	1570410000102		1	BF
22	Centrifugal Fan	10425200003		2	AH
23	Centrifugal fan assy	15404100031		1	BL
24	Propeller Housing(Upper)	26905200018		2	AF
25	Propeller Housing(Lower)	26905200019		2	AE
26	Filter Sub-Assy	111001000082		2	AH
27	Temperature Sensor	390000597		1	AD
28	Room Sensor	39000191		1	AD
29	Display Board	300001000204_L41419		1	-
	Water Tray Assy	01285200020			
	Jumper	4202021901			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
	Air Filter	111001000082			
	Remote Controller	305001060024_L41419	·		



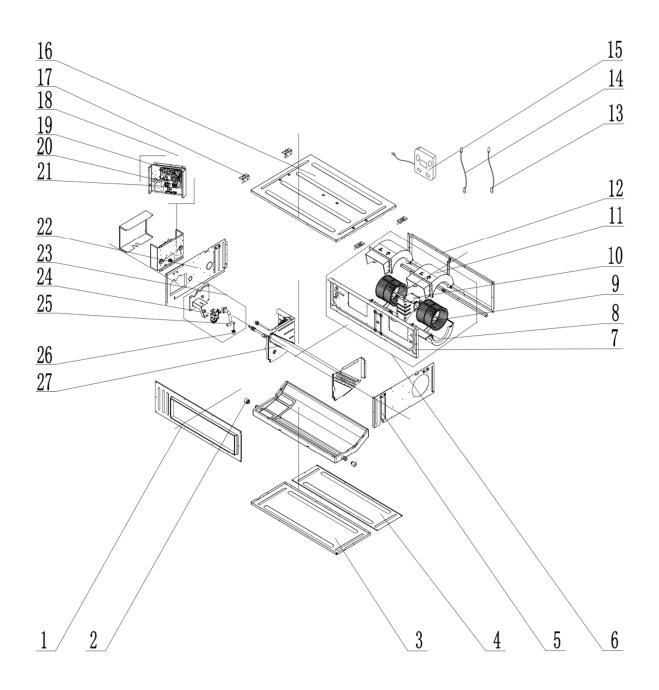
No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASD-18BI	Duct unit			
1	Top Cover Board Assy	01265200068		1	AU
2	Main Board	300002060223		1	AY
3	Terminal Board	42018000551		1	AG
4	Terminal Board	42011106		1	AE
5	Electric Box Assy	100002002911		1	BA
6	Liquid Level Switch	430024000005		1	AL
7	Left Side Plate Assy	000080000022		1	AL
8	Strainer	0721200102		1	AE
9	Water Pump	812007060016		1	AT
10	Drainage Pipe(Rubber)	760022000001		1	AK
11	Water Pump Assy	000104060009		1	AX
12	Hook 2	01344100034		2	AC
13	Evaporator Assy	011001000506		1	BG
14	Air Outlet Frame Assy	01374100058		1	AM
15	Cover Of Air-In	01265200073		1	AL
16	Bottom Cover Plate Assy	01264100103		1	AN
17	Hook	02112446		2	AD
18	Water Tray Assy	01285200022		1	AT
19	Right Side Plate Assy	01315200053		1	AL
20	Centrifugal fan assy	15404100032		1	BM
21	Blower Mounting Plate Sub-Assy	01325200035		1	AP
22	Bearing Holder Sub-assy	26151139		1	AD
23	Support Of Motor Bearing	02285200001		1	AC
24	Propeller Housing(Lower)	26905200019		3	AE
25	Centrifugal Fan	10425200003		3	AH
26	Joint Slack	73018731		1	AL
27	Brushless DC Motor	1570410000102		1	BF
28	Rotary Axis Sub-Assy	73018761		1	AQ
29	Propeller Housing(Upper)	26905200018		3	AF
30	Temperature Sensor	390000597		1	AD
31	Room Sensor	39000191		1	AD
32	Display Board	300001000204_L41419		1	-
	Water Tray Assy	01285200022			
	Jumper	4202021902			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
	Air Filter	111253038			
	Remote Controller	305001060024_L41419			



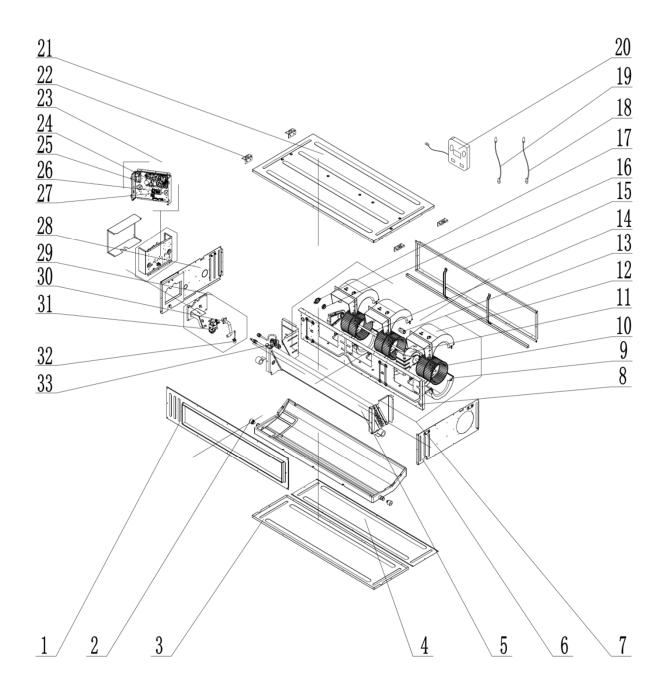
MODEL: ASD-24BI Duct unit	No	Description	Part Code	Note	Qty	Price Code
2         Main Board         300002060223         1         AY           3         Terminal Board         42018000551         1         AG           4         Terminal Board         42011106         1         AE           5         Electric Box Assy         100002062858         1         BA           6         Liquid Level Switch         430024000005         1         AL           7         Left Side Plate Assy         000080000025         1         AL           8         Strainer         0721200102         1         AE           9         Water Pump         812007060016         1         AT           10         Drainage Pipe (Rubber)         760022000001         1         AK           11         Water Pump         812007060016         1         AT           10         Drainage Pipe (Rubber)         760022000001         1         AK           11         Water Pump         812007060016         1         AX           12         Air Outlet Frame Assy         000141000016         1         AX           12         Air Outlet Frame Assy         00141000016         1         AQ           13         Cover Of Air-In         0126		MODEL: ASD-24BI	Duct unit			
Terminal Board	1	Top Cover Board Assy	0126520015101		1	AW
4         Terminal Board         42011106         1         AE           5         Electric Box Assy         100002062858         1         BA           6         Liquid Level Switch         430024000005         1         AL           7         Left Side Plate Assy         000080000025         1         AL           8         Strainer         0721200102         1         AE           9         Water Pump         812007060016         1         AT           10         Drainage Pipe(Rubber)         760022000001         1         AK           11         Water Pump Assy         00014060009         1         AX           12         Air Outlet Frame Assy         000141000016         1         AQ           13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         000069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         <	2	Main Board	300002060223		1	AY
5         Electric Box Assy         100002062858         1         BA           6         Liquid Level Switch         430024000005         1         AL           7         Left Side Plate Assy         000080000025         1         AL           8         Strainer         0721200102         1         AE           9         Water Pump         812007060016         1         AT           10         Drainage Pipe(Rubber)         760022000001         1         AK           11         Water Pump Assy         000104060009         1         AX           12         Air Outlet Frame Assy         000141000016         1         AQ           13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         00006900103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub	3	Terminal Board	42018000551		1	AG
6         Liquid Level Switch         430024000005         1         AL           7         Left Side Plate Assy         000080000025         1         AL           8         Strainer         0721200102         1         AE           9         Water Pump         812007060016         1         AT           10         Drainage Pipe(Rubber)         760022000001         1         AK           11         Water Pump Assy         000104060009         1         AX           12         Air Outlet Frame Assy         000141000016         1         AQ           13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         000069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller H	4	Terminal Board	42011106		1	AE
7         Left Side Plate Assy         000080000025         1         AL           8         Strainer         0721200102         1         AE           9         Water Pump         812007060016         1         AT           10         Drainage Pipe(Rubber)         760022000001         1         AK           11         Water Pump Assy         000104060009         1         AX           12         Air Outlet Frame Assy         000141000016         1         AQ           13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         010069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing(Lower)         26905200123         4         AF           21         Bearin	5	Electric Box Assy	100002062858		1	BA
8         Strainer         0721200102         1         AE           9         Water Pump         812007060016         1         AT           10         Drainage Pipe(Rubber)         760022000001         1         AK           11         Water Pump Assy         00010000009         1         AX           12         Air Outlet Frame Assy         000141000016         1         AQ           13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         010069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing(Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Support	6	Liquid Level Switch	430024000005		1	AL
9         Water Pump         812007060016         1         AT           10         Drainage Pipe(Rubber)         760022000001         1         AK           11         Water Pump Assy         000104060009         1         AX           12         Air Outlet Frame Assy         000141000016         1         AQ           13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         000069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing(Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Support Of Motor Bearing         02285200001         2         AC           23	7	Left Side Plate Assy	000080000025		1	AL
10   Drainage Pipe(Rubber)   760022000001   1   AK   11   Water Pump Assy   000104060009   1   AX   12   Air Outlet Frame Assy   000141000016   1   AQ   13   Cover Of Air-In   01265200158   1   AM   14   Bottom Cover Plate Assy   01265200152   1   AQ   15   Hook 2   01344100034   4   AC   16   Water Tray Assy   000069000103   1   AV   17   Evaporator Assy   011001060083   1   BL   18   Right Side Plate Assy   01315200169   1   AL   19   Blower Mounting Plate Sub-Assy   01325200095   1   AS   20   Propeller Housing(Lower)   26905200123   4   AF   21   Bearing Holder Sub-assy   26151139   2   AD   22   Support Of Motor Bearing   02285200001   2   AC   AC   23   Propeller Housing(Upper)   26905200122   4   AF   24   Centrifugal Fan   10425200004   4   AK   25   Fan Motor   15704100001   1   BK   26   Joint Slack   73018731   2   AL   27   Rotary Axis Sub-Assy   000052060004   1   BN   29   Temperature Sensor   39000597   1   AD   30   Room Sensor   39000191   1   AD   31   Display Board   3000100024_L41419   1   -	8	Strainer	0721200102		1	AE
11         Water Pump Assy         000104060009         1         AX           12         Air Outlet Frame Assy         000141000016         1         AQ           13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         000069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing(Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Support Of Motor Bearing         02285200001         2         AC           23         Propeller Housing(Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           2	9	Water Pump	812007060016		1	AT
12         Air Outlet Frame Assy         000141000016         1         AQ           13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         000069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing(Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Support Of Motor Bearing         02285200001         2         AC           23         Propeller Housing(Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26	10	Drainage Pipe(Rubber)	760022000001		1	AK
13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         000069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing(Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Support Of Motor Bearing         02285200001         2         AC           23         Propeller Housing(Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26         Joint Slack         73018761         2         AQ           28         Ce	11	Water Pump Assy	000104060009		1	AX
14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         000069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing(Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Support Of Motor Bearing         02285200001         2         AC           23         Propeller Housing(Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26         Joint Slack         73018731         2         AL           27         Rotary Axis Sub-Assy         73018761         2         AQ           28	12	Air Outlet Frame Assy	000141000016		1	AQ
15         Hook 2         01344100034         4         AC           16         Water Tray Assy         000069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing(Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Support Of Motor Bearing         02285200001         2         AC           23         Propeller Housing(Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26         Joint Slack         73018731         2         AL           27         Rotary Axis Sub-Assy         73018761         2         AQ           28         Centrifugal fan assy         000052060004         1         BN           29         Te	13	Cover Of Air-In	01265200158		1	AM
16         Water Tray Assy         000069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing(Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Support Of Motor Bearing         02285200001         2         AC           23         Propeller Housing(Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26         Joint Slack         73018731         2         AL           27         Rotary Axis Sub-Assy         73018761         2         AQ           28         Centrifugal fan assy         000052060004         1         BN           29         Temperature Sensor         39000191         1         AD           30	14	Bottom Cover Plate Assy	01265200152		1	AQ
17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing(Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Support Of Motor Bearing         02285200001         2         AC           23         Propeller Housing(Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26         Joint Slack         73018731         2         AL           27         Rotary Axis Sub-Assy         73018761         2         AQ           28         Centrifugal fan assy         000052060004         1         BN           29         Temperature Sensor         39000191         1         AD           30         Room Sensor         39000191         1         AD           31         D	15	Hook 2	01344100034		4	AC
18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing(Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Support Of Motor Bearing         02285200001         2         AC           23         Propeller Housing(Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26         Joint Slack         73018731         2         AL           27         Rotary Axis Sub-Assy         73018761         2         AQ           28         Centrifugal fan assy         000052060004         1         BN           29         Temperature Sensor         39000191         1         AD           30         Room Sensor         39000190         1         AD           31         Display Board         3000069000103         1         AD           Water Tray Assy	16	Water Tray Assy	000069000103		1	AV
19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing(Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Support Of Motor Bearing         02285200001         2         AC           23         Propeller Housing(Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26         Joint Slack         73018731         2         AL           27         Rotary Axis Sub-Assy         73018761         2         AQ           28         Centrifugal fan assy         000052060004         1         BN           29         Temperature Sensor         39000597         1         AD           30         Room Sensor         39000191         1         AD           31         Display Board         300001000204_L41419         1         -           Water Tray Assy         000069000103         -         -           Jumper         4202021903	17	Evaporator Assy	011001060083		1	BL
20         Propeller Housing(Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Support Of Motor Bearing         02285200001         2         AC           23         Propeller Housing(Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26         Joint Slack         73018731         2         AL           27         Rotary Axis Sub-Assy         73018761         2         AQ           28         Centrifugal fan assy         000052060004         1         BN           29         Temperature Sensor         39000597         1         AD           30         Room Sensor         39000191         1         AD           31         Display Board         30001000204_L41419         1         -           Water Tray Assy         000069000103         -         -           Jumper         4202021903         -         -	18	Right Side Plate Assy	01315200169		1	AL
21       Bearing Holder Sub-assy       26151139       2       AD         22       Support Of Motor Bearing       02285200001       2       AC         23       Propeller Housing(Upper)       26905200122       4       AF         24       Centrifugal Fan       10425200004       4       AK         25       Fan Motor       15704100001       1       BK         26       Joint Slack       73018731       2       AL         27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       39000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       30001000204_L41419       1       -         Water Tray Assy       000069000103       -       -         Jumper       4202021903       -       -	19	Blower Mounting Plate Sub-Assy	01325200095		1	AS
22         Support Of Motor Bearing         02285200001         2         AC           23         Propeller Housing(Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26         Joint Slack         73018731         2         AL           27         Rotary Axis Sub-Assy         73018761         2         AQ           28         Centrifugal fan assy         000052060004         1         BN           29         Temperature Sensor         39000597         1         AD           30         Room Sensor         39000191         1         AD           31         Display Board         300001000204_L41419         1         -           Water Tray Assy         000069000103         -         -           Jumper         4202021903         -         -	20	Propeller Housing(Lower)	26905200123		4	AF
23         Propeller Housing(Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26         Joint Slack         73018731         2         AL           27         Rotary Axis Sub-Assy         73018761         2         AQ           28         Centrifugal fan assy         000052060004         1         BN           29         Temperature Sensor         390000597         1         AD           30         Room Sensor         39000191         1         AD           31         Display Board         300001000204_L41419         1         -           Water Tray Assy         000069000103         -         -           Jumper         4202021903         -         -	21	Bearing Holder Sub-assy	26151139		2	AD
24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26         Joint Slack         73018731         2         AL           27         Rotary Axis Sub-Assy         73018761         2         AQ           28         Centrifugal fan assy         000052060004         1         BN           29         Temperature Sensor         390000597         1         AD           30         Room Sensor         39000191         1         AD           31         Display Board         300001000204_L41419         1         -           Water Tray Assy         000069000103         -         -           Jumper         4202021903         -         -	22	Support Of Motor Bearing	02285200001		2	AC
25       Fan Motor       15704100001       1       BK         26       Joint Slack       73018731       2       AL         27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       390000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       300001000204_L41419       1       -         Water Tray Assy       000069000103       -         Jumper       4202021903	23	Propeller Housing(Upper)	26905200122		4	AF
26       Joint Slack       73018731       2       AL         27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       390000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       300001000204_L41419       1       -         Water Tray Assy       000069000103       -         Jumper       4202021903		Centrifugal Fan	10425200004		4	AK
27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       390000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       300001000204_L41419       1       -         Water Tray Assy       000069000103         Jumper       4202021903		Fan Motor	15704100001		1	BK
28         Centrifugal fan assy         000052060004         1         BN           29         Temperature Sensor         390000597         1         AD           30         Room Sensor         39000191         1         AD           31         Display Board         300001000204_L41419         1         -           Water Tray Assy         000069000103         -         -           Jumper         4202021903         -         -	26	Joint Slack	73018731		2	AL
29         Temperature Sensor         390000597         1         AD           30         Room Sensor         39000191         1         AD           31         Display Board         300001000204_L41419         1         -           Water Tray Assy         000069000103         -         -           Jumper         4202021903         -	27	Rotary Axis Sub-Assy	73018761		2	AQ
30         Room Sensor         39000191         1         AD           31         Display Board         300001000204_L41419         1         -           Water Tray Assy         000069000103             Jumper         4202021903	28	Centrifugal fan assy	000052060004		1	BN
31       Display Board       300001000204_L41419       1       -         Water Tray Assy       000069000103       -         Jumper       4202021903       -	29	Temperature Sensor	390000597		1	AD
Water Tray Assy         000069000103           Jumper         4202021903	30	Room Sensor	39000191		1	AD
Jumper 4202021903	31	Display Board	300001000204_L41419		1	-
		Water Tray Assy	000069000103			
OMNA 00 M/S F: Mandrid (Ontingal)		Jumper	4202021903			
		SWM-03 Wi-Fi Module (Optional)	53511000000626			
Air Filter 111253039			111253039			
Remote Controller   305001060024_L41419		Remote Controller	305001060024_L41419			



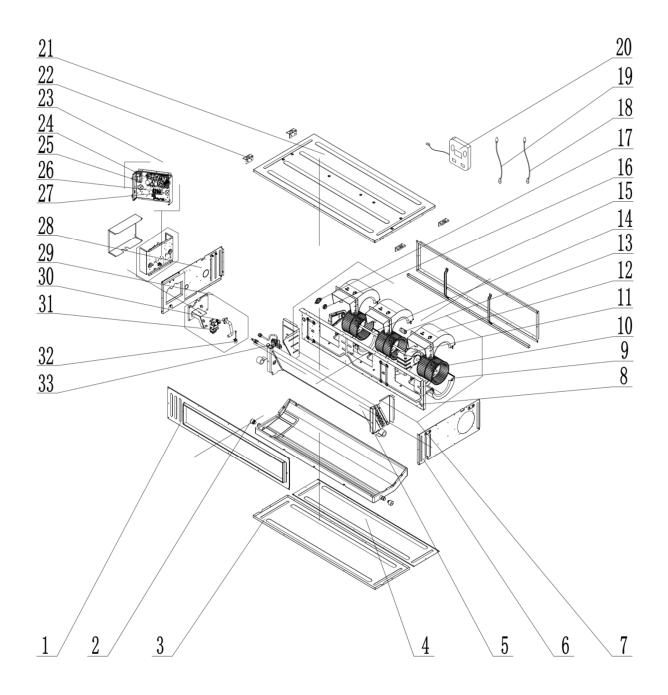
3         Terminal Board         42018000551         1         AG           4         Terminal Board         42011106         1         AE           5         Electric Box Assy         100002062858         1         BA           6         Liquid Level Switch         430024000005         1         AL           7         Left Side Plate Assy         000080000025         1         AL           8         Strainer         0721200102         1         AE           9         Water Pump         812007060016         1         AT           10         Drainage Pipe (Rubber)         760022000001         1         AK           11         Water Pump         812007060016         1         AT           10         Drainage Pipe (Rubber)         760022000001         1         AK           11         Water Pump         812007060016         1         AT           10         Drainage Pipe (Rubber)         760022000001         1         AK           11         Water Pump Assy         000104060009         1         AX           12         Air Outlet Frame Assy         000141000016         1         AQ           13         Cover Of Air-In	No	Description	Part Code	Note	Qty	Price Code
2         Main Board         300002060223         1         AY           3         Terminal Board         42018005551         1         AG           4         Terminal Board         42011106         1         AE           5         Electric Box Assy         100002062858         1         BA           6         Liquid Level Switch         430024000005         1         AL           7         Left Side Plate Assy         000080000025         1         AL           8         Strainer         0721200102         1         AE           9         Water Pump         812007060016         1         AT           10         Drainage Pipe (Rubber)         760022000001         1         AK           11         Water Pump Assy         00014060009         1         AX           12         Air Outlet Frame Assy         00014060009         1         AX           13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200158         1         AQ           15         Hok 2         01344100034         4         AC           16         Water Tray Assy         000069000103<		MODEL: ASD-30BI	Duct unit			
Terminal Board	1	Top Cover Board Assy	0126520015101		1	AW
4         Terminal Board         42011106         1         AE           5         Electric Box Assy         100002062888         1         BA           6         Liquid Level Switch         430024000005         1         AL           7         Left Side Plate Assy         00008000025         1         AL           8         Strainer         0721200102         1         AE           9         Water Pump         812007060016         1         AT           10         Drainage Pipe (Rubber)         760022000001         1         AK           11         Water Pump         812007060016         1         AT           10         Drainage Pipe (Rubber)         760022000001         1         AK           11         Water Pump Assy         00014060009         1         AX           12         Air Outlet Frame Assy         00014060009         1         AX           13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hok 2	2	Main Board	300002060223		1	AY
Electric Box Assy	3	Terminal Board	42018000551		1	AG
6         Liquid Level Switch         430024000005         1         AL           7         Left Side Plate Assy         000080000025         1         AL           8         Strainer         0721200102         1         AE           9         Water Pump         812007060016         1         AT           10         Drainage Pipe (Rubber)         760022000001         1         AK           11         Water Pump Assy         000104060009         1         AX           12         Air Outlet Frame Assy         000141000016         1         AQ           13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         01006900103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller H	4	Terminal Board	42011106		1	AE
7         Left Side Plate Assy         000080000025         1         AL           8         Strainer         0721200102         1         AE           9         Water Pump         812007060016         1         AT           10         Drainage Pipe (Rubber)         760022000001         1         AK           11         Water Pump Assy         000104060009         1         AX           12         Air Outlet Frame Assy         000140000016         1         AQ           13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         000069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01315200095         1         AS           20         Propeller Housing (Lower)         26905200123         4         AF           21         Bear	5	Electric Box Assy	100002062858		1	BA
8         Strainer         0721200102         1         AE           9         Water Pump         812007060016         1         AT           10         Drainage Pipe (Rubber)         760022000001         1         AK           11         Water Pump Assy         000104060009         1         AX           12         Air Outlet Frame Assy         000141000016         1         AQ           13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         00006900103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing (Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Suppo	6	Liquid Level Switch	430024000005		1	AL
9         Water Pump         812007060016         1         AT           10         Drainage Pipe (Rubber)         760022000001         1         AK           11         Water Pump Assy         000104060009         1         AX           12         Air Outlet Frame Assy         000141000016         1         AQ           13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         000069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing (Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AC           23         Propeller Housing (Upper)         26905200122         4         AF           24 <td>7</td> <td>Left Side Plate Assy</td> <td>000080000025</td> <td></td> <td>1</td> <td>AL</td>	7	Left Side Plate Assy	000080000025		1	AL
Drainage Pipe (Rubber)   760022000001   1	8	Strainer	0721200102		1	AE
11       Water Pump Assy       000104060009       1       AX         12       Air Outlet Frame Assy       000141000016       1       AQ         13       Cover Of Air-In       01265200158       1       AM         14       Bottom Cover Plate Assy       01265200152       1       AQ         15       Hook 2       01344100034       4       AC         16       Water Tray Assy       000069000103       1       AV         17       Evaporator Assy       011001060083       1       BL         18       Right Side Plate Assy       01315200169       1       AL         19       Blower Mounting Plate Sub-Assy       01325200095       1       AS         20       Propeller Housing (Lower)       26905200123       4       AF         21       Bearing Holder Sub-assy       26151139       2       AD         22       Support Of Motor Bearing       02285200001       2       AC         23       Propeller Housing (Upper)       26905200122       4       AF         24       Centrifugal Fan       10425200004       4       AK         25       Fan Motor       15704100001       1       BK         26	9	Water Pump	812007060016		1	AT
12       Air Outlet Frame Assy       000141000016       1       AQ         13       Cover Of Air-In       01265200158       1       AM         14       Bottom Cover Plate Assy       01265200152       1       AQ         15       Hook 2       01344100034       4       AC         16       Water Tray Assy       000069000103       1       AV         17       Evaporator Assy       011001060083       1       BL         18       Right Side Plate Assy       01325200095       1       AL         19       Blower Mounting Plate Sub-Assy       01325200095       1       AS         20       Propeller Housing (Lower)       26905200123       4       AF         21       Bearing Holder Sub-assy       26151139       2       AD         22       Support Of Motor Bearing       02285200001       2       AC         23       Propeller Housing (Upper)       26905200122       4       AF         24       Centrifugal Fan       10425200004       4       AK         25       Fan Motor       15704100001       1       BK         26       Joint Slack       73018731       2       AL         27       <	10	Drainage Pipe (Rubber)	760022000001		1	AK
13         Cover Of Air-In         01265200158         1         AM           14         Bottom Cover Plate Assy         01265200152         1         AQ           15         Hook 2         01344100034         4         AC           16         Water Tray Assy         000069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing (Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Support Of Motor Bearing         02285200001         2         AC           23         Propeller Housing (Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26         Joint Slack         73018731         2         AL           27	11	Water Pump Assy	000104060009		1	AX
14       Bottom Cover Plate Assy       01265200152       1       AQ         15       Hook 2       01344100034       4       AC         16       Water Tray Assy       000069000103       1       AV         17       Evaporator Assy       011001060083       1       BL         18       Right Side Plate Assy       01315200169       1       AL         19       Blower Mounting Plate Sub-Assy       01325200095       1       AS         20       Propeller Housing (Lower)       26905200123       4       AF         21       Bearing Holder Sub-assy       26151139       2       AD         22       Support Of Motor Bearing       02285200001       2       AC         23       Propeller Housing (Upper)       26905200122       4       AF         24       Centrifugal Fan       10425200004       4       AK         25       Fan Motor       15704100001       1       BK         26       Joint Slack       73018731       2       AL         27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29	12	Air Outlet Frame Assy	000141000016		1	AQ
15         Hook 2         01344100034         4         AC           16         Water Tray Assy         000069000103         1         AV           17         Evaporator Assy         011001060083         1         BL           18         Right Side Plate Assy         01315200169         1         AL           19         Blower Mounting Plate Sub-Assy         01325200095         1         AS           20         Propeller Housing (Lower)         26905200123         4         AF           21         Bearing Holder Sub-assy         26151139         2         AD           22         Support Of Motor Bearing         02285200001         2         AC           23         Propeller Housing (Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26         Joint Slack         73018731         2         AL           27         Rotary Axis Sub-Assy         73018761         2         AQ           28         Centrifugal fan assy         000052060004         1         BN           29	13	Cover Of Air-In	01265200158		1	AM
16       Water Tray Assy       000069000103       1       AV         17       Evaporator Assy       011001060083       1       BL         18       Right Side Plate Assy       01315200169       1       AL         19       Blower Mounting Plate Sub-Assy       01325200095       1       AS         20       Propeller Housing (Lower)       26905200123       4       AF         21       Bearing Holder Sub-assy       26151139       2       AD         22       Support Of Motor Bearing       02285200001       2       AC         23       Propeller Housing (Upper)       26905200122       4       AF         24       Centrifugal Fan       10425200004       4       AK         25       Fan Motor       15704100001       1       BK         26       Joint Slack       73018731       2       AL         27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       39000191       1       AD         30       Room Sensor       39000190       1       AD         31       Di	14	Bottom Cover Plate Assy	01265200152		1	AQ
17       Evaporator Assy       011001060083       1       BL         18       Right Side Plate Assy       01315200169       1       AL         19       Blower Mounting Plate Sub-Assy       01325200095       1       AS         20       Propeller Housing (Lower)       26905200123       4       AF         21       Bearing Holder Sub-assy       26151139       2       AD         22       Support Of Motor Bearing       02285200001       2       AC         23       Propeller Housing (Upper)       26905200122       4       AF         24       Centrifugal Fan       10425200004       4       AK         25       Fan Motor       15704100001       1       BK         26       Joint Slack       73018731       2       AL         27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       39000191       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       3000100004_L41419       1       -         Water Tray Assy <td>15</td> <td>Hook 2</td> <td>01344100034</td> <td></td> <td>4</td> <td>AC</td>	15	Hook 2	01344100034		4	AC
18       Right Side Plate Assy       01315200169       1       AL         19       Blower Mounting Plate Sub-Assy       01325200095       1       AS         20       Propeller Housing (Lower)       26905200123       4       AF         21       Bearing Holder Sub-assy       26151139       2       AD         22       Support Of Motor Bearing       02285200001       2       AC         23       Propeller Housing (Upper)       26905200122       4       AF         24       Centrifugal Fan       10425200004       4       AK         25       Fan Motor       15704100001       1       BK         26       Joint Slack       73018731       2       AL         27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       39000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       30001000204_L41419       1       -         Water Tray Assy       000069000103       -       -       -         Jumper       <	16	Water Tray Assy	000069000103		1	AV
19       Blower Mounting Plate Sub-Assy       01325200095       1       AS         20       Propeller Housing (Lower)       26905200123       4       AF         21       Bearing Holder Sub-assy       26151139       2       AD         22       Support Of Motor Bearing       02285200001       2       AC         23       Propeller Housing (Upper)       26905200122       4       AF         24       Centrifugal Fan       10425200004       4       AK         25       Fan Motor       15704100001       1       BK         26       Joint Slack       73018731       2       AL         27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       39000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       3000069000103       1       A         Water Tray Assy       000069000103       1       A         Water Time Assy       000069000103       1       A         Jumper       4202021904       4	17	Evaporator Assy	011001060083		1	BL
19       Blower Mounting Plate Sub-Assy       01325200095       1       AS         20       Propeller Housing (Lower)       26905200123       4       AF         21       Bearing Holder Sub-assy       26151139       2       AD         22       Support Of Motor Bearing       02285200001       2       AC         23       Propeller Housing (Upper)       26905200122       4       AF         24       Centrifugal Fan       10425200004       4       AK         25       Fan Motor       15704100001       1       BK         26       Joint Slack       73018731       2       AL         27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       390000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       3000069000103       1       A         Water Tray Assy       000069000103       1       A         Water Time Assy       000069000103       1       A         Water Fin Module (Optional)       53511000000626	18	Right Side Plate Assy	01315200169		1	AL
21       Bearing Holder Sub-assy       26151139       2       AD         22       Support Of Motor Bearing       02285200001       2       AC         23       Propeller Housing (Upper)       26905200122       4       AF         24       Centrifugal Fan       10425200004       4       AK         25       Fan Motor       15704100001       1       BK         26       Joint Slack       73018731       2       AL         27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       39000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       30001000204_L41419       1       -         Water Tray Assy       000069000103       -       -         Jumper       4202021904       -         SWM-03 Wi-Fi Module (Optional)       53511000000626       -         Air Filter       111253039       -	19	Blower Mounting Plate Sub-Assy	01325200095		1	AS
22       Support Of Motor Bearing       02285200001       2       AC         23       Propeller Housing (Upper)       26905200122       4       AF         24       Centrifugal Fan       10425200004       4       AK         25       Fan Motor       15704100001       1       BK         26       Joint Slack       73018731       2       AL         27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       39000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       30001000204_L41419       1       -         Water Tray Assy       000069000103       1       A         Jumper       4202021904       1         SWM-03 Wi-Fi Module (Optional)       53511000000626       1         Air Filter       111253039       1	20	Propeller Housing (Lower)	26905200123		4	AF
23         Propeller Housing (Upper)         26905200122         4         AF           24         Centrifugal Fan         10425200004         4         AK           25         Fan Motor         15704100001         1         BK           26         Joint Slack         73018731         2         AL           27         Rotary Axis Sub-Assy         73018761         2         AQ           28         Centrifugal fan assy         000052060004         1         BN           29         Temperature Sensor         39000597         1         AD           30         Room Sensor         390001901         1         AD           31         Display Board         300001000204_L41419         1         -           Water Tray Assy         000069000103         -         -           Jumper         4202021904         -         -           SWM-03 Wi-Fi Module (Optional)         53511000000626         -           Air Filter         111253039         -	21	Bearing Holder Sub-assy	26151139		2	AD
24       Centrifugal Fan       10425200004       4       AK         25       Fan Motor       15704100001       1       BK         26       Joint Slack       73018731       2       AL         27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       39000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       30000100204_L41419       1       -         Water Tray Assy       000069000103	22	Support Of Motor Bearing	02285200001		2	AC
25       Fan Motor       15704100001       1       BK         26       Joint Slack       73018731       2       AL         27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       390000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       300001000204_L41419       1       -         Water Tray Assy       000069000103       1       -         Jumper       4202021904       -       -         SWM-03 Wi-Fi Module (Optional)       53511000000626       -       -         Air Filter       111253039       -       -	23	Propeller Housing (Upper)	26905200122		4	AF
26       Joint Slack       73018731       2       AL         27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       390000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       300001000204_L41419       1       -         Water Tray Assy       000069000103       -       -         Jumper       4202021904       -       -         SWM-03 Wi-Fi Module (Optional)       53511000000626       -       -         Air Filter       111253039       -       -	24	Centrifugal Fan	10425200004		4	AK
27       Rotary Axis Sub-Assy       73018761       2       AQ         28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       390000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       300001000204_L41419       1       -         Water Tray Assy       000069000103       -         Jumper       4202021904       -         SWM-03 Wi-Fi Module (Optional)       53511000000626       -         Air Filter       111253039       -	25	Fan Motor	15704100001		1	BK
28       Centrifugal fan assy       000052060004       1       BN         29       Temperature Sensor       390000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       300001000204_L41419       1       -         Water Tray Assy       000069000103       1       -         Jumper       4202021904       -       -         SWM-03 Wi-Fi Module (Optional)       53511000000626       -       -         Air Filter       111253039       -       -	26	Joint Slack	73018731		2	AL
29       Temperature Sensor       390000597       1       AD         30       Room Sensor       39000191       1       AD         31       Display Board       300001000204_L41419       1       -         Water Tray Assy       000069000103          Jumper       4202021904          SWM-03 Wi-Fi Module (Optional)       53511000000626          Air Filter       111253039	27	Rotary Axis Sub-Assy	73018761		2	AQ
30       Room Sensor       39000191       1       AD         31       Display Board       300001000204_L41419       1       -         Water Tray Assy       000069000103       -         Jumper       4202021904       -         SWM-03 Wi-Fi Module (Optional)       53511000000626       -         Air Filter       111253039       -	28	Centrifugal fan assy	000052060004		1	BN
31       Display Board       300001000204_L41419       1       -         Water Tray Assy       000069000103          Jumper       4202021904          SWM-03 Wi-Fi Module (Optional)       53511000000626          Air Filter       111253039	29	Temperature Sensor	390000597		1	AD
Water Tray Assy       000069000103         Jumper       4202021904         SWM-03 Wi-Fi Module (Optional)       53511000000626         Air Filter       111253039	30	Room Sensor	39000191		1	AD
Jumper       4202021904         SWM-03 Wi-Fi Module (Optional)       53511000000626         Air Filter       111253039	31	Display Board	300001000204_L41419		1	-
SWM-03 Wi-Fi Module (Optional)         53511000000626           Air Filter         111253039		Water Tray Assy	000069000103			
Air Filter 111253039			4202021904			
Air Filter 111253039		SWM-03 Wi-Fi Module (Optional)	53511000000626			
Remote Controller 305001060024_L41419			111253039			
		Remote Controller	305001060024_L41419			



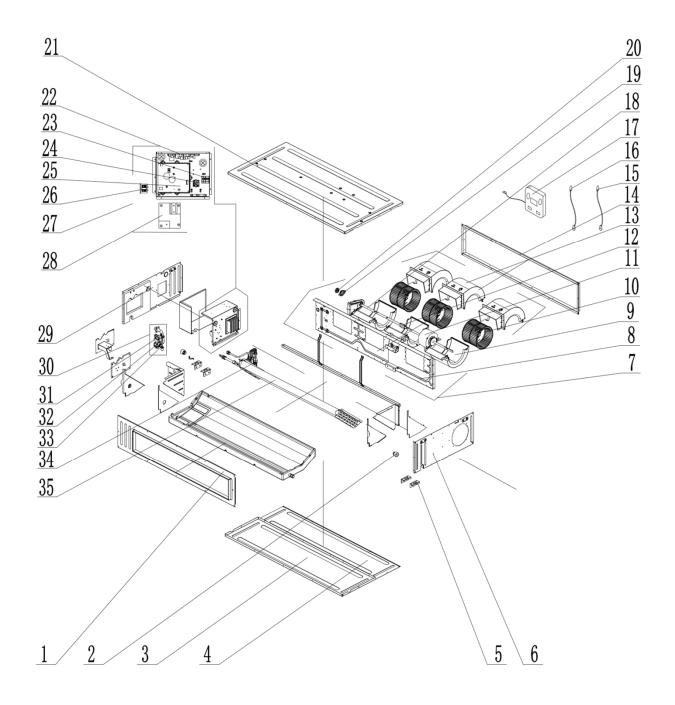
No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASD-3	6BI Duct unit			
1	Air Outlet Frame Assy	01375200026		1	AS
2	Choke Plug of Drain Pipe	76815214		2	AC
3	Bottom Cover Plate	01265200131		1	AR
4	Cover Of Air-In	01265200132		1	AP
5	Right Side Plate Assy	01315200124		1	AP
6	Centrifugal fan assy	000052060069		1	BN
7	Blower Mounting Plate Sub-Assy	01325200079		1	AU
8	Propeller Housing(Lower)	26905200079		2	AK
9	Centrifugal Fan	10455200003		2	AL
10	Brushless DC Motor	15705200016		1	BK
11	Propeller Housing(Upper)	26905200078		2	AK
12	回风框组件	017026000002		1	AL
13	Ambient Temperature Sensor	3900012123		1	AD
14	Temperature Sensor	390001921		1	AD
15	Display Board	300001000204_L41419		1	-
16	Top Cover Board Assy	01265200130		1	AX
17	Hook	02112466		4	AD
18	Electric Box Assy	100002061152		1	-
19	Main Board	300002060227		1	AZ
20	Terminal Board	42018000551		1	AG
21	Terminal Board	42000100000101		1	AF
22	Left Side Plate Assy	01315200147		1	AQ
23	Water Pump Assy	000104060016		1	-
24	Water Pump	81200706001601		1	AU
25	Pump Drainpipe	200070060004		1	AL
26	Liquid Level Switch	430024000005		1	AL
27	Evaporator Assy	011001060398		1	BM
	Water Tray Assy	12505200025			
	Jumper	4202021909			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
	Air Filter	111001000045			
	Remote Controller	305001060024_L41419			



No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASD-42BI	Duct unit			
1	Air Outlet Frame Assy	01375200023		1	AW
2	Choke Plug of Drain Pipe	76815214		2	AC
3	Bottom Cover Plate	01265200125		1	AV
4	Cover Plate (Air return)	01265200123		1	AS
5	Evaporator Assy	011001060397		1	BN
6	Right Side Plate Assy	01315200124		1	AP
7	Centrifugal Fan Assy	000052060096		1	BP
8	Blower Mounting Plate Sub-Assy	01325200076		1	AW
9	Propeller Housing (Lower)	26905200079		3	AK
	Centrifugal Fan	10455200003		3	AL
	Brushless DC Motor	1570940000603		1	BF
12	Propeller Housing (Upper)	26905200078		3	AK
	Joint Slack	73018731		1	AL
14	Rotary Axis Sub-Assy	73018000117		1	AN
	Return Air Frame Sub-Assy	017026000003		1	AT
	Bearing Holder Sub-assy	26151139		1	AD
	Support Of Motor Bearing	02285200001		1	AC
	Temperature Sensor	390001921		1	AD
19	Ambient Temperature Sensor	3900012123		1	AD
20	Display Board	300001000204_L41419		1	-
21	Top Cover Board Assy	01265200122		1	AY
22	Hook	02112466		4	AD
23	Electric Box Assy	100002061152		1	-
24	Main Board	300002060227		1	AZ
25	Filter Board	300020000017		1	AM
26	Terminal Board	42018000551		1	AG
27	Terminal Board	42000100000101		1	AF
28	Left Side Plate Assy	01315200125		1	AP
29	Water Pump Assy	000104060016		1	-
30	Pump Drainpipe	200070060004		1	AL
	Water Pump	81200706001601		1	AU
32	Liquid Level Switch	430024000005		1	AL
	Filter	07415210		1	AL
	Water Tray Assy	12505200021			
	Jumper	4202021910			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
	Air Filter	111001000052			
	Remote Controller	305001060024 L41419			



MODEL: ASD-48BI Duct unit  1 Air Outlet Frame Assy 01375200023	3		
1 Air Outlet Frame Assy 0127520002	3		
This Outlet Fathe Assy		1	AW
2 Choke Plug of Drain Pipe 76815214		2	AC
3 Bottom Cover Plate 0126520012	5	1	AV
4 Cover Plate (Air return) 01265200123	3	1	AS
5 Evaporator Assy 01100106039	)7	1	BN
6 Right Side Plate Assy 01315200124	4	1	AP
7 Centrifugal Fan Assy 00005206009	06	1	BP
8 Blower Mounting Plate Sub-Assy 01325200076	6	1	AW
9 Propeller Housing (Lower) 26905200079	9	3	AK
10 Centrifugal Fan 10455200003	3	3	AL
11 Brushless DC Motor 157094000060	03	1	BF
12 Propeller Housing (Upper) 26905200078	8	3	AK
13 Joint Slack 73018731		1	AL
14 Rotary Axis Sub-Assy 7301800011	7	1	AN
15 Return Air Frame Sub-Assy 01702600000	)3	1	AT
16 Bearing Holder Sub-assy 26151139		1	AD
17 Support Of Motor Bearing 0228520000	1	1	AC
18 Temperature Sensor 390001921		1	AD
19 Ambient Temperature Sensor 3900012123	3	1	AD
20 Display Board 300001000204 L4	1419	1	-
21 Top Cover Board Assy 0126520012		1	AY
22 Hook 02112466		4	AD
23 Electric Box Assy 10000206115	52	1	-
24 Main Board 30000206022	27	1	AZ
25 Filter Board 30002000001	7	1	AM
26 Terminal Board 4201800055	1	1	AG
27 Terminal Board 420001000001	01	1	AF
28 Left Side Plate Assy 0131520012	5	1	AP
29 Water Pump Assy 00010406001	6	1	-
30 Pump Drainpipe 20007006000	)4	1	AL
31 Water Pump 812007060016	01	1	AU
32 Liquid Level Switch 43002400000	)5	1	AL
33 Filter 07415210		1	AL
Water Tray Assy 1250520002	1		
Jumper 4202021911			
SWM-03 Wi-Fi Module (Optional) 535110000006			<del>                                     </del>
Air Filter 11100100005			
Remote Controller 305001060024_L4*			



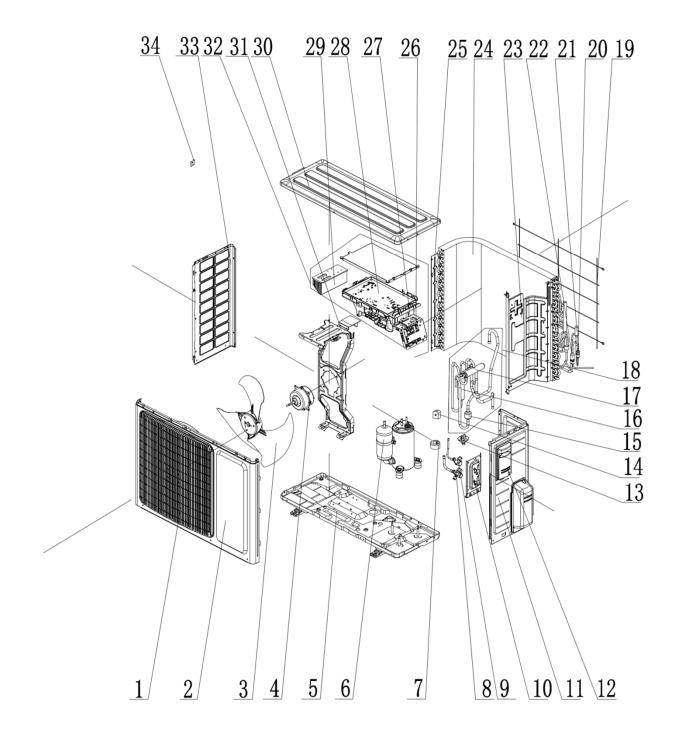
No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASD-60BI	Duct unit			
1	Air Outlet Frame Assy	01375200023		1	AW
2	Choke Plug of Drain Pipe	76815214		2	AC
3	Bottom Cover Plate	01265200125		1	AV
4	Cover Plate (Air return)	01265200123		1	AS
5	Hook	02112466		4	AD
6	Right Side Plate Assy	01315200124		1	AP
7	Centrifugal fan assy	000052000029		1	BN
8	Blower Mounting Plate Sub-Assy	01325200076		1	AW
9	Propeller Housing (Lower)	26905200079		3	AK
10	Centrifugal Fan	10455200003		3	AL
11	Brushless DC Motor	1570940000801		1	BF
12	Joint Slack	73018731		1	AL
13	Propeller Housing (Upper)	26905200078		3	AK
14	Return Air Frame Sub-Assy	017026000003		1	AT
15	Temperature Sensor	390000597		1	AD
16	Room Sensor	39000191		1	AD
17	Display Board	300001000204_L41419		1	-
18	Rotary Axis Sub-Assy	73018000117		1	AN
19	Support Of Motor Bearing	02285200001		1	AC
20	Bearing Holder Sub-assy	26151139		1	AD
21	Top Cover Board Assy	01264100105		1	AZ
22	Main Board	300002060223		1	AY
23	Terminal Board	42018000551		1	AG
24	Terminal board	42000100000202		1	AD
25	Main Board	30221000033		1	BC
26	Reactor	43138000047		1	AL
27	Electric Box Assy	100002061236		1	-
28	Radiator	49018000068		1	AS
29	Left Side Plate Assy	01314100118		1	AQ
30	Water Pump Assy	000104060016		1	-
31	Pump Drainpipe	200070060004		1	AL
32	Water Pump	81200706001601		1	AU
33	Liquid Level Switch	430024000005		1	AL
34	Filter	07415210		1	AL
35	Evaporator Assy	011001060392		1	-
	Water Tray Assy	12505200021			
	Jumper	4202021912			
	SWM-03 Wi-Fi Module (Optional)	53511000000626			
	Air Filter	111001000052			
	Remote Controller	305001060024_L41419			



### **UNI SPLIT SERIES**

**ASGE-XXBI, ASGE-XXBI-3** 

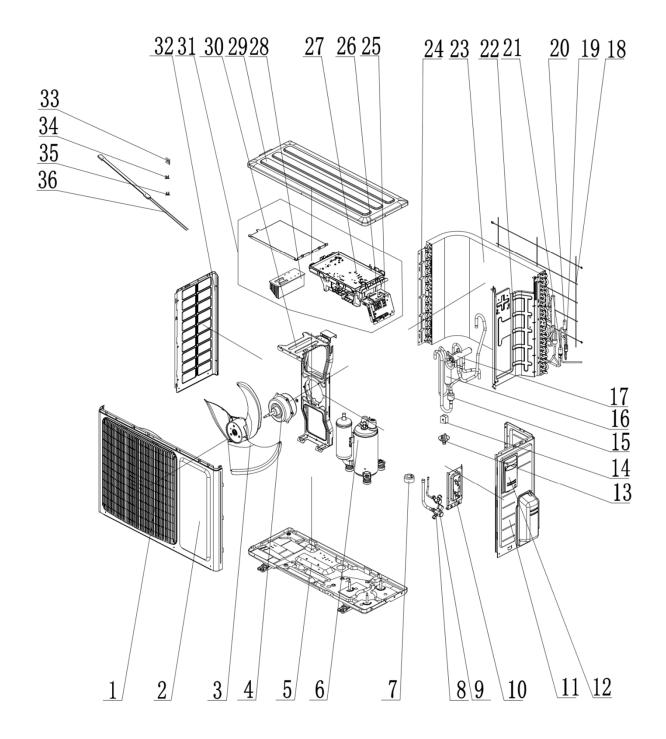




No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASGE-12BI	Outdoor unit			
1	Front Grill	22413046		1	AK
2	Front Panel Assy	0153305105		1	AV
3	Axial Flow Fan	10333011		1	AN
4	Brushless DC Motor	1501308511		1	AX
5	Base Plate Sub-Assy	017000060107P		1	AU
6	Compressor and Fittings	009001060093		1	BG
7	Electric Expand Valve Fitting	4300034401		1	AU
8	Cut off Valve	071302391		1	AM
9	Cut off Valve	07130239		1	AH
10	Valve Support Sub-Assy	01713115P		1	AG
11	Right Side Plate	0130324403P		1	AM
12	Big Handle	2623343106		1	AE
13	Drainage Joint	26113009		1	AD
14	Magnet Coil	4300040087		1	AH
15	Silencer	07245013		1	AG
16	Silencer 1	07243050		1	AH
17	4-Way Valve	430004032		1	AX
18	4-way Valve Assy	030152060099		1	AZ
19	Rear Grill	01475019		1	AH
20	Strainer	0721302608		1	AD
21	Electronic Expansion Valve Sub-Assy	030026060163		1	AS
22	Strainer	07225088		1	AD
23	Clapboard Sub-Assy	01233168		1	AK
24	Condenser Assy	011002060290		1	BM
25	Condenser Support Plate	01795028		1	AE
26	Terminal Board	422000000007		1	AD
27	Terminal Board	42200000002402		1	AF
28	Main Board	300027060151		1	BL
29	Radiator	49013060		1	AR
30	Coping	012049000006P		1	AQ
31	Motor Support Sub-Assy	0170323801		1	AM
32	Electric Box Assy	100002061298		1	BN
33	Left Side Plate	01303169P		1	AK
34	Temperature Sensor	3900028020G		1	AH
	Chassis Heater Belt	765100049			

T\_LAC temperature sensor Jumper NEW

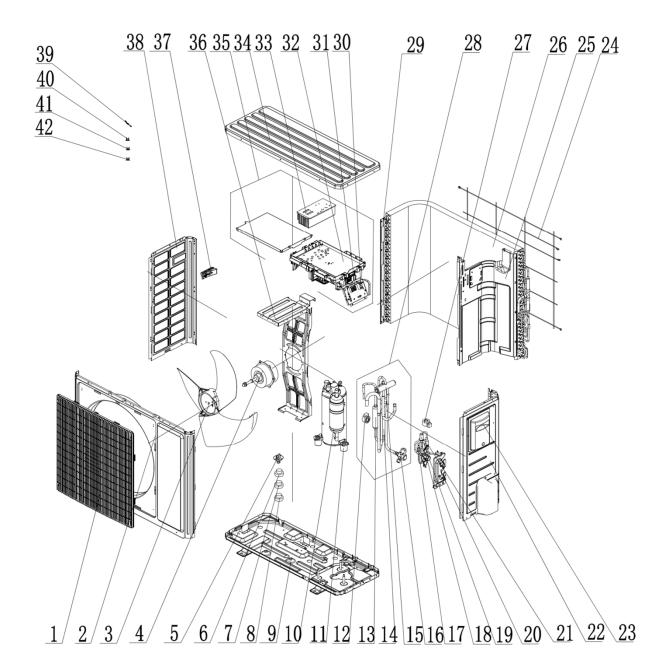
3900007201 4202021901



No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASGE-18	BI Outdoor unit			
1	Front Grill	22413046		1	AK
2	Front Panel Assy	0153305105		1	AV
3	Axial Flow Fan	10333014		1	AQ
4	Fan Motor	1501371701		1	BA
5	Base Plate Sub-Assy	017000060100P		1	AU
6	Compressor and Fittings	009001060006		1	BN
7	Electric Expand Valve Fitting	4300034401		1	AU
8	Cut off Valve Assy 1/2	07133774		1	AQ
9	Cut off Valve	07130239		1	AH
10	Valve Support Sub-Assy	01713115P		1	AG
11	Right Side Plate	0130324403P		1	AM
12	Big Handle	2623343106		1	AE
13	Drainage Joint	26113009		1	AD
14	Magnet Coil	4300040087		1	AH
15	Silencer	07245013		1	AG
16	Silencer 1	07243050		1	AH
17	4-way Valve Assy	030152060091		1	AZ
18	Rear Grill	01475019		1	AH
19	Strainer	0721302608		1	AD
20	Electronic Expansion Valve Sub-=Assy	030026060163		1	AS
21	Strainer	07225088		1	AD
22	Clapboard Sub-Assy	01233168		1	AK
23	Condenser Assy	011002060290		1	BM
24	Condenser Support Plate	01795028		1	AE
25	Terminal Board	422000000007		1	AD
26	Terminal Board	42200000002402		1	AF
27	Main Board	300027060151		1	BL
28	Radiator	49013060		1	AR
29	Coping	012049000006P		1	AQ
30	Motor Support Sub-Assy	0170339802		1	AM
31	Electric Box Assy	100002061297		1	BN
32	Left Side Plate	01303169P		1	AK
33	Temperature Sensor	3900028020G		1	AH
34	Compressor Overload Protector(External)	00183032		1	AQ
35	Compressor Overload Protector(External)	00183051		1	AQ
36	Electrical Heater	none		0	-
	Chassis Heater Belt	765100049			

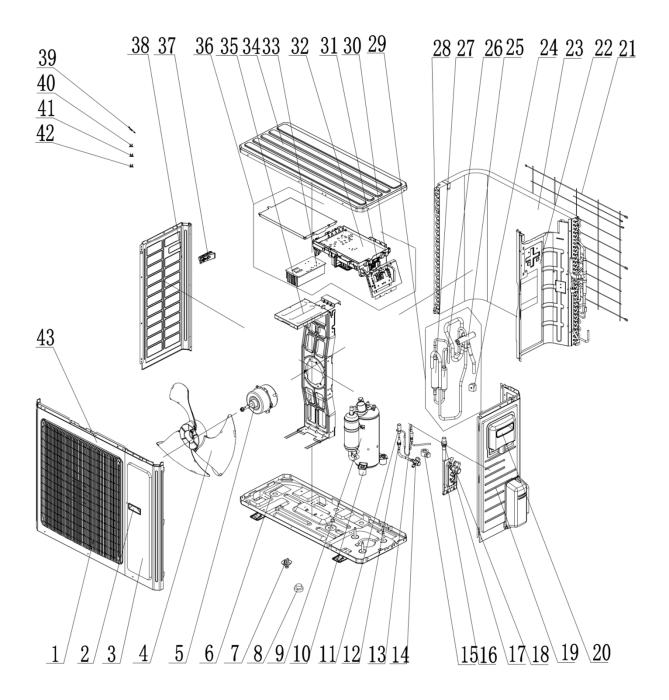
T\_LAC temperature sensor Jumper NEW

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No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASGE-24	BI Outdoor unit			•
1	Front Grill	22415010		1	AM
2	Front Panel Assy	01533058		1	AX
3	Axial Flow Fan	10335008		1	AQ
4	Fan Motor	1501506402		1	BB
5	Drainage Connecter	06123401		1	AA
6	Drainage hole Cap	none		0	-
7	Drainage hole Cap	none		0	-
8	Drainage hole Cap	06813401		3	AB
9	Chassis Sub-assy	01205816P		1	AV
10	Compressor and Fittings	00900100019501		1	BP
11	Compressor Gasket	009012000004		3	AE
12	Magnet Coil	4300040087		1	AH
13	Silencer 1	07243050		1	AH
14	Silencer 2	07243049		1	AG
15	4-Way Valve	430004032		1	AX
16	Cut off Valve	07133844		1	AQ
17	Strainer	0721302608		1	AD
18	Cut off Valve	071302391		1	AM
19	Electronic Expansion Valve Sub-Assy	030026060114		1	AV
20	Valve Support Sub-Assy	01705046P		1	AG
21	Strainer	07225088		1	AD
22	Right Side Plate Assy	0130329207		1	AM
23	Handle	2623525404		1	AG
24	Rear Grill	01475020		1	AG
25	Clapboard Sub-Assy	01235081		1	AM
26	Condenser Assy	01100200017701		1	BP
27	Electric Expand Valve Fitting	43000344	Old	1	AP
28	4-way Valve Assy	030152060086		1	BB
29	Condenser Support Plate	01795031		1	AE
30	Terminal Board	42200000007		1	AD
31	Terminal Board	42200000002402		1	AF
32	Main Board	300027060157		1	BN
33	Radiator	4901521502		1	AT
34	Coping Sub-Assy	000051000017		1	AR
35	Electric Box Assy	100002061278		1	BQ
36	Motor Support Sub-Assy	01705067		1	AP
37	Handle	26233053		1	AB
38	Left Side Plate	01305093P		1	AN
39	Temperature Sensor	3900030902		1	AH
40	Compressor Overload Protector(External)	00183031		1	AQ
41	Compressor Overload Protector(External)	00183032		1	AQ
	Compressor Overload Protector(External)	none		0	
42	Compressor Overload Protector(External)	TIONE		U	

T\_LAC temperature sensor New Main Board with anti-corrosion process Electric Expand Valve Fitting New Jumper NEW 3900007201 300027060569 4300034419 4202021903



No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASGE-30	OBI Outdoor unit		<u> </u>	•
1	Front Grill	22415011		1	AM
2	Left Handle	26235401		1	AB
3	Front Side Plate	01305086P		1	AM
4	Axial Flow Fan	10335014		1	AM
5	Brushless DC Motor	15010400000102		1	BA
6	Chassis Sub-assy	0280319601P		1	AX
7	Drainage Connecter	06123401		1	AA
8	Drainage hole Cap	06813401		3	AB
9	Compressor and Fittings	00900100019501		1	BP
10	Compressor Gasket	009012000004		3	AE
11	Electronic Expansion Valve Sub-Assy	030026060104		1	AV
12	Strainer	0721304401		1	AD
13	Strainer	07225088		1	AD
14	Cut off Valve	071302391		1	AM
15	Electric Expand Valve Fitting	43000344		1	AP
16	Valve Support Sub-Assy	0171501201P		1	AG
17	Strainer	07215201		1	AE
18	Cut off Valve Assy	030164000052		1	AR
19	Right Side Plate	0130504401P		1	AP
20	Big Handle	26235001		1	AG
21	Rear Grill	01475013		1	AH
22	Clapboard Sub-Assy	01235091		1	AP
23	Condenser Assy	01100200162		1	ВТ
24	Magnet Coil	4300040045		1	AM
25	4-way Valve	4300008201		1	AU
26	Silencer 1	07243050		1	AH
27	Silencer	07245101		1	AL
28	Condenser Support Plate	01175092		1	AE
29	4-Way Valve Assy	030152000329		1	BA
30	Terminal Board	422000000007		1	AD
31	Terminal Board	42200000002402		1	AF
32	Main Board	300027060157		1	BN
33	Radiator	4901521502		1	AT
34	Coping	01255020P		1	AR
35	Motor Support Sub-Assy	017012000017		1	AS
36	Electric Box Assy	100002061294		1	BQ
37	Handle	26233053		1	AB
38	Left Side Plate	01305043P		1	AN
39	Temperature Sensor	3900030901		1	AH
40	Compressor Overload Protector(External)	00183031		1	AQ
41	Compressor Overload Protector(External)	00183032		1	AQ
42	Compressor Overload Protector(External)	none		0	-
43	Front Panel Assy	02200200001		1	AW
	Chassis Heater Belt	7651000413			

T\_LAC temperature sensor

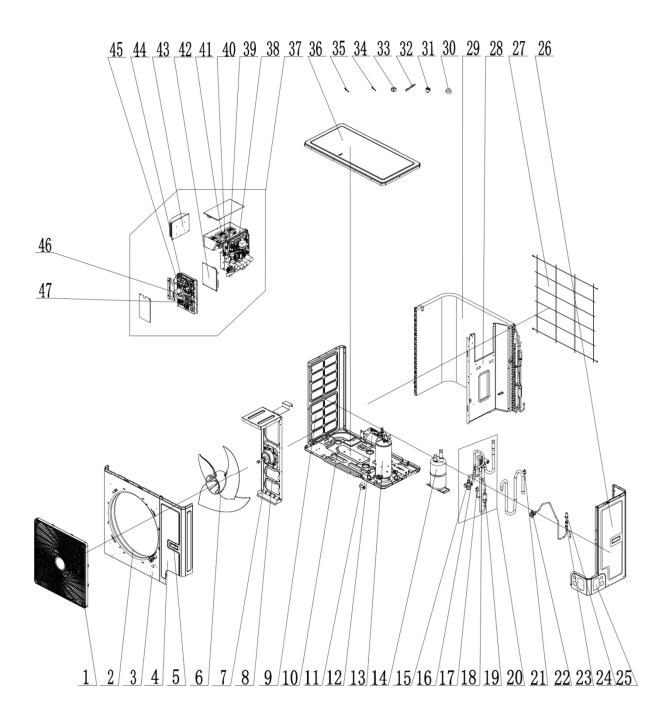
Jumper NEW

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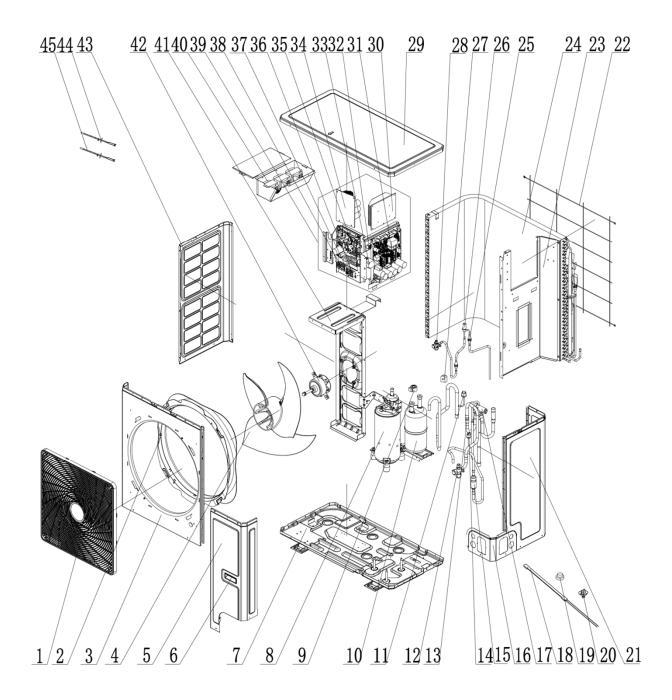
No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASGE-36	BI Outdoor unit			
1	Front Grill	01572800003		1	AR
2	Cabinet Sub-Assy	000006000009		1	AX
3	Handle	26904100016		2	AB
4	Front Side Plate	012050000007P		1	AR
5	Axial Flow Fan	1043410000801		1	AR
6	Electric Heater(Compressor)	7651873215		1	AP
7	Drainage hole Cap	76715005		3	AB
8	Drainage Joint	26113009		1	AD
9	Base Plate Sub-Assy	017000060073P		1	AZ
10	Compressor Gasket	009012000004		3	AE
11	Compressor and Fittings	009001000231		1	ВТ
12	Electric Expand Valve Fitting	43000344		1	AP
13	Gas-liquid Separator	07423902		1	AX
14	Cut off Valve	07334100016		1	AP
15	Pressure Protect Switch	4602000603		1	AH
16	Connection Board	01344100070P		1	AG
17	Silencer	07245012		1	AH
18	4-way Valve Assy	030152060080		1	ВС
19	Pressure Protect Switch	46020007		1	AH
20	Rear Side Plate	012076000021P		1	AS
21	Rear Grill	01574100014		1	AH
22	Clapboard Sub-Assy	017021060074		1	AS
23	Condenser Assy	011002060190		1	BU
24	Filter	07224803		1	AF
25	Magnet Coil	4300040087		1	AH
26	Strainer	0721304401		2	AD
27	Electronic Expansion Valve Sub-Assy	030026060100		1	AX
28	Cut off Valve	071302391		1	AM
29	Radiator	430034000048		1	AX
30	Inductance	43128000014		1	AQ
31	Main Board	30221000024		1	BL
32	Power Switch	300012060010		1	AM
33	PFC Inductance	43120011		1	AZ
34	Coping	01264100052P		1	AU
35	Main Board	300027060156		1	BA
36	Terminal Board	42200000007		1	AD
37	Terminal Board	42000100000101		1	AD
38	Terminal Board	42200000001501		1	AE
39	Electric Box Assy	100002061299		1	BW
40	Filter Board	300020000004		1	BA
41	Motor Support Sub-Assy	017012060035		1	BH
42	Brushless DC Motor	150104060013		1	BE
43	Left Side Plate	012055000007P		1	AS
44	Temperature Sensor	3900007201		1	AF
45	Temperature Sensor	39008000049G		1	AH
46	Compressor Overload Protector(External)	00183032		1	AQ
47	Compressor Overload Protector(External)	00183031		1	AQ
48	Compressor Overload Protector(External)	00180030		1	AQ
· •	Chassis Heater Belt	7651000413		<del>                                     </del>	1
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T\_LAC temperature sensor
Jumper NEW
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No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASGE-36BI-3	Outdoor unit			
1	Front Grill	01572800003		1	AR
2	Diversion Circle	10474100003		1	AK
3	Cabinet Sub-Assy	000006000009		1	AX
4	Front Side Plate	012050000007P		1	AR
5	Handle	26904100016		2	AB
6	Axial Flow Fan	1043410000801		1	AR
7	Brushless DC Motor	150104060013		1	BE
8	Motor Support Sub-Assy	01701206003901		1	AT
9	Left Side Plate	012055000007P		1	AS
10	Base Plate Sub-Assy	017000060073P		1	AZ
11	Drainage Joint	26113009		1	AD
12	Valve Support Sub-Assy	017104000008		1	AF
13	Compressor and Fittings	009001060078		1	BT
14	Gas-liquid Separator	07423902		1	AX
15	Cut off Valve	07334100016		1	AP
16	Filter	07224803		1	AF
17	Pressure Protect Switch	4602000603		1	AH
18	4-way Valve	4300008201		1	AU
19	Silencer	07245012		1	AH
20	4-way Valve Assy	030152060080		1	BC
21	Pressure Protect Switch	46020007		1	AH
22	Cut off Valve	071302391		1	AM
23	Strainer	0721304401		2	AD
24	Electronic Expansion Valve Sub-Assy	030026060100		1	AX
25	Connection Board	01344100070P		1	AG
26	Rear Side Plate	012076000021P		1	AS
27	Rear Grill	01574100014		1	AH
28	Clapboard Sub-Assy	017021060074		1	AS
29	Condenser Assy	011002060190		1	BU
30	Drainage hole Cap	76715005		3	AB
31	Electric Expand Valve Fitting	43000344		1	AP
32	Electric Heater(Compressor)	7651873215		1	AP
33	Magnet Coil	4300040087		1	AH
34	Temperature Sensor	39008000049G		1	AH
35	Temperature Sensor	3900007201		1	AF
36	Coping	01264100052P		1	AU
37	Electric Box Assy	100002061296		1	CF
38	Main Board	300027000436		1	CA
39	Inductance	43128000014		1	AQ
40	Terminal Board	42011147		1	AC
41	Reactor	43130192		3	AT
42	Filter Board	30223000044		1	BC
43	Radiator	49018000087		1	AY
44	Terminal Board	42200000007		1	AD
45	Terminal Board	42000100000101		1	AD
46	Main Board	300027060156		1	BA
47	Terminal Board	42200006000904		1	AG
	Chassis Heater Belt	7651000413			

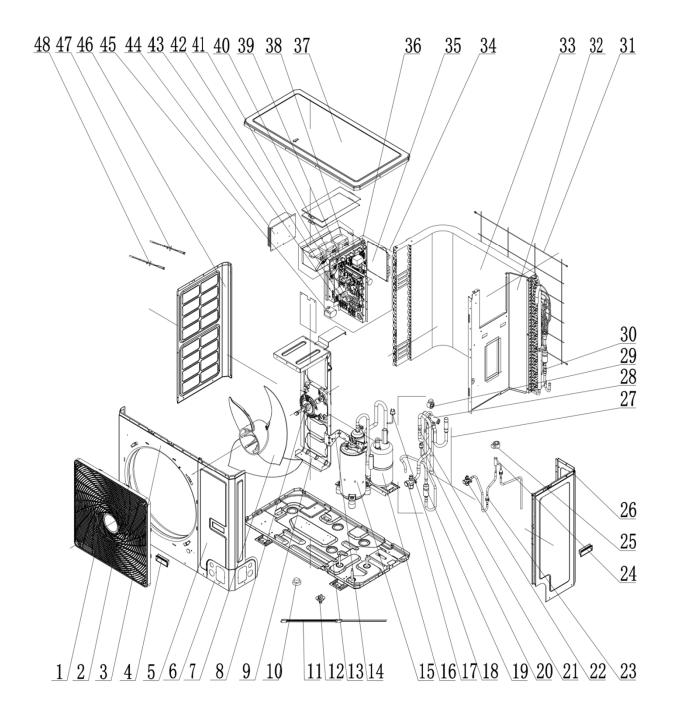
T\_LAC temperature sensor
Jumper NEW
The data are subject to change without notice.



No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASGE-42BI-3	Outdoor unit			
1	Front Grill	01572800003		1	AR
2	Diversion Circle	10474100003		1	AK
3	Cabinet Sub-Assy	000006000009		1	AX
4	Axial Flow Fan	1043410000801		1	AR
5	Front Side Plate	012050000007P		1	AR
6	Handle	26904100016		2	AB
7	Base Plate Sub-Assy	01700006008901P		1	AZ
8	Compressor and Fittings	009001060059		1	BW
9	Electric Expand Valve Fitting	43000344		1	AP
10	Gas-liquid Separator	07423902		1	AX
11	Pressure Protect Switch	46020007		1	AH
12	Cut off Valve	07334100016		1	AP
13	Filter	07224803		1	AF
14	Pressure Protect Switch	4602000603		1	AH
15	Silencer	07245012		1	AH
16	Connection Board	01344100070P		1	AG
17	4-way Valve Assy	030152060078		1	ВС
18	Electrical Heater(Compressor)	7651521238		1	AG
19	Drainage hole Cap	76715005		3	AB
20	Drainage Joint	26113009		1	AD
21	Rear Side Plate	012076000021P		1	AS
22	Rear Grill	01574100014		1	AH
23	Clapboard Sub-Assy	017021060074		1	AS
24	Condenser Assy	011002060190		1	BU
25	Strainer	0721304401		2	AD
26	Electronic Expansion Valve Sub-Assy	030026060099		1	AX
27	Magnet Coil	4300040045		1	AM
28	Cut off Valve	071302391		1	AM
29	Coping	01264100052P		1	AU
30	Radiator	49018000087		1	AY
31	Main Board	300027000644		1	CA
32	Terminal Board	42011147		1	AC
33	Inductance	43128000014		1	AQ
34	Filter Board	30223000044		1	BC
35	Main Board	300027060156		1	BA
36	Terminal Board	422000000007		1	AD
37	Terminal Board	42000100000101		1	AD
38	Terminal Board	42200006000904		1	AG
39	Electric Box Assy	100002061295		1	CF
40	Reactor	43130192		3	AT
41	Motor Support Sub-Assy	01701206003901		1	AT
42	Brushless DC Motor	150104060013		1	BE
43	Left Side Plate	012055000007P		1	AS
44	Temperature Sensor	3900007201		1	AF
45	Temperature Sensor	39008000049G		1	AH
	Chassis Heater Belt	7651000413			
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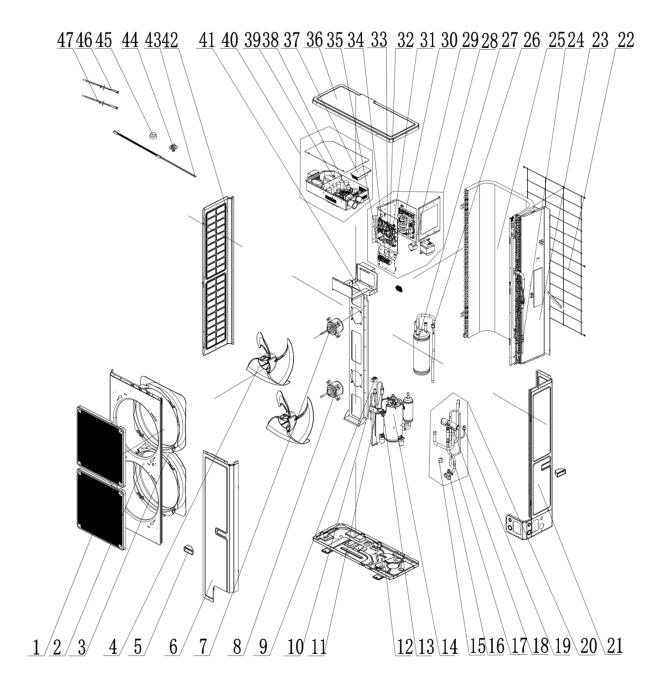
T\_LAC temperature sensor Jumper NEW

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No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASGE-48BI-3				_
1	Front Grill	01572800003		1	AR
2	Diversion Circle	10474100003		1	AK
3	Cabinet Sub-Assy	000006000009		1	AX
4	Handle	26904100016		2	AB
5	Front Side Plate	012050000007P		1	AR
6	Connection Board	01344100070P		1	AG
7	Axial Flow Fan	1043410000801		1	AR
8	Brushless DC Motor	150104060013		1	BE
9	Motor Support Sub-Assy	017012060039		1	AS
10	Drainage hole Cap	76715005		3	AB
11	Electrical Heater(Compressor)	7651521238		1	AG
12	Drainage Joint	26113009		1	AD
13	Base Plate Sub-Assy	017000060089P		1	AZ
14	Valve Support Sub-Assy	017104000008		1	AF
15	Compressor and Fittings	009001060059		1	BW
16	Gas-liquid Separator	07423902		1	AX
17	Cut off Valve	07334100016		1	AP
18	Pressure Protect Switch	46020007		1	AH
19	Silencer	07245012		2	AH
20	Pressure Protect Switch	4602000603		1	AH
21	Filter	07224803		1	AF
22	Cut off Valve	071302391		1	AM
23	Strainer	0721304401		2	AD
24	Electronic Expansion Valve Sub-Assy	030026060099		1	AX
25	Electric Expand Valve Fitting	43000344		1	AP
26	Rear Side Plate	012076000021P		1	AS
27	4-way Valve Assy	030152060078		1	BC
28	4-way Valve	4300008201		1	AU
29	Magnet Coil	4300040045		1	AM
30	Strainer	0721212101		1	AE
31	Rear Grill	01574100014		1	AH
32	Clapboard Sub-Assy	017021060074		1	AS
33	Condenser Assy	01100200031501		1	CA
34	Electric Box Assy	100002061295		1	CF
35	Filter Board	30223000044		1	BC
36	Main Board	300027000644		1	CA
37	Coping	01264100052P		1	AU
38	Reactor	43130192		3	AU
39	Main Board	300027060156		1	BA
40	Terminal Board	42011147		1	AC
41	Terminal Board	422000000007		1	
42				-	AD
42	Terminal Board	42000100000101 4220006000904		1	AD AG
	Terminal Board			1	AG
44	Radiator	49018000087		1	AY
45	Inductance	43128000014		1	AQ
46	Left Side Plate	012055000007P		1	AS
47	Temperature Sensor	39008000049G		1	AH
48	Temperature Sensor	3900007201		1	AF
	Chassis Heater Belt	7651000413			

T\_LAC temperature sensor
Jumper NEW
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No	Description	Part Code	Note	Qty	Price Code
	MODEL: ASGE-60BI-3	Outdoor unit			
1	Front Grill	016004060002		2	AN
2	Cabinet Assy	01514100005		1	BB
3	Diversion Circle	10474100001		2	AK
4	Axial Flow Fan	1043410000301		2	AM
5	Handle	26235253		2	AB
6	Front Side Plate	01314100012P		1	AV
7	Brushless DC Motor	1570410001305		1	BE
8	Brushless DC Motor	1570410001306		1	BE
9	Electric Expand Valve Fitting	43000344		1	AP
10	Electronic Expansion Valve Sub-Assy	030026060103		1	AX
11	Strainer	0741410000601		2	AG
12	Chassis Sub-assy	017000000342P		1	AV
13	Cut off Valve	07330000002		1	AL
14	Compressor and Fittings	009001060059		1	BW
15	Magnet Coil	4300040045		1	AM
16	Cut off Valve	07334100016		1	AP
17	Filter	07224803		1	AF
18	4-way Valve	43000338		1	AY
19	Pressure Protect Switch	4602000603		1	AH
20	4-way Valve Assy	030152060082		1	BD
21	Rear Side Plate Sub-Assy	017051000057P		1	AW
22	Rear Grill	01574100004		1	AL
23	Clapboard Sub-Assy	017021060075P		1	AS
24	Strainer	07212121		1	AN
25	Condenser Assy	011002060197		1	СВ
26	Pressure Protect Switch	46020007		1	AH
27	Gas-liquid Separator	0722501603		1	AU
28	Electric Box Assy	100002061300		1	BP
29	Inductance	43128000014		1	AQ
30	Filter Board	30223000044		1	BC
31	Terminal Board	42011147		1	AC
32	Terminal Board	422000000007		1	AD
33	Main Board	300027060156		1	BA
34	Terminal Board	42000100000101		1	AD
35	Terminal Board	42200006000904		1	AG
36	Coping	01264100008P		1	AR
37	Radiator	49018000127		1	AV
38	Main Board	300027000644		1	CA
39	Reactor	43130192		3	AT
40	Electric Box Assy	100002062084		1	CD
41	Motor Support Sub-Assy	017012000126		1	AV
42	Left Side Plate	01314100013P		1	AV
43	Electrical Heater(Compressor)	765152128		1	AK
44	Drainage Connecter	06123401		1	AA
45	Drainage hole Cap	06813401		3	AB
46	Temperature Sensor	3900007201		1	AF
47	Temperature Sensor	3900028025G		1	AH
	Chassis Heater Belt	7651000417			
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T\_LAC temperature sensor Jumper NEW

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# NOTE CONCERNING PROTECTION OF ENVIRONMENT



This product must not be disposed of via normal household waste after its service life, but must be taken to a collection station for the recycling of electrical and electronic devices. The symbol on the product, the operating instructions or the packaging indicate such disposal procedures. The materials are recyclable in accordance with their respective symbols. By means of re-use, material recycling or any other form of recycling old appliances you are making an important contribution to the protection of our environment. Please ask your local council where your nearest disposal station is located.

## INFORMATION CONCERNING USED REFRIGERANT MEDIUM

This unit is containing fluorinated gases included in the Kyoto protocol. The maintenance and the liquidation must be carried out by qualified personnel.

Type of refrigerant: R410A

The composition of the cooling medium R410A: (50% HFC-32, 50% HFC-125)

The quantity of the refrigerant: please see the unit label. The value GWP: 2088 (1 kg R410A = 2,088 t CO<sub>2</sub> eq)

GWP = Global Warming Potential

In case of quality problem or other please contact your local supplier or authorized service center.

**Emergency number: 112** 

### **PRODUCER**

SINCLAIR CORPORATION Ltd. 1-4 Argyll St. London W1F 7LD Great Britain

www.sinclair-world.com

This product was manufactured in China (Made in China).

### REPRESENTATIVE

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