

MULTI SPLIT AIR CONDITIONERS – R32 - WIFI



SERVICE MANUAL

OUTDOOR UNITS

ARGO QUADRI 36 DCI R32 ARGO PENTA 42 DCI R32

Please read this manual carefully before installing and using the air conditioner, and retain for future reference.



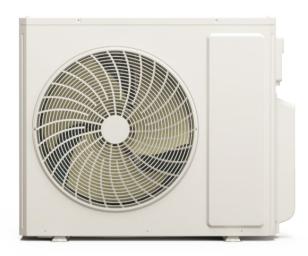
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1. Summary

Outdoor Unit:

ARGO QUADRI 36 DCI R32 ARGO PENTA 42 DCI R32



Model		-	ARGO QUADRI 36 DCI R32
Product C	ode	-	398000796
_	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
Сирріу	Phases	-	1
Cooling C	apacity	kW	10.6
Heating C	apacity	kW	12
Cooling P	ower Input	kW	3
Heating P	ower Input	kW	3.04
Cooling C	urrent Input	Α	13.31
Heating C	urrent Input	Α	13.49
Rated Pov	wer Input	kW	Cooling: 4.6 / Heating: 5.0
Rated Cui	rrent	Α	Cooling: 20.41 / Heating: 21.74
EER		W/W	3.53
COP		W/W	3.95
	Compressor Trademark	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXFS-D280zX070C
	Compressor Refrigerant Oil Type	-	FW68DA or equivalent
	Compressor Type	-	Twin Rotary
	L.R.A	Α	40
	Compressor Rated Load Amp (RLA)	Α	1
	Compressor Power Input	W	2294
	Compressor Thermal Protector	-	KSD115°C HPC115/95U1
	Throttling Method	-	Electron expansion valve
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Material	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7.94
	Rows-Fin Gap(mm)	mm	2-1.4
	Coil length (L) X Height (H) X Coil width (W)	mm	1066×792×38.1
	Fan Motor Speed (rpm) (H/M/L)	rpm	Cooling: 800 / Heating: 860
0.444	Output of Fan Motor	W	130
Outdoor Unit	Fan Motor RLA	А	1
Onic	Fan Motor Capacitor	μF	1
	Air Flow Volume of Outdoor Unit	m³/h	5800
	Fan Type-Piece	-	Axial-flow
	Fan Diameter-Height	mm	550-205
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	T1
	Isolation	-	I
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Dimension (WXDXH)	mm	1020×427×826
	Dimension of Carton Box (LXWXH)	mm	1090×494×870
	Dimension of Package (LXWXH)	mm	1093×497×885
	Net Weight	kg	72
	Gross Weight	kg	79
	Refrigerant	-	R32
	Refrigerant Charge	kg	2.4

	Cross-sectional Area of Power Cable Conductor	mm ²	4
	Recommended Power Cable(Core)	N	3
	Connection Pipe Connection Method	-	Flare Connection
	Not Additional Gas Connection Pipe Length	m	40
	Connection Pipe Gas Additional Charge	g/m	20
	Outer Diameter of Liquid Pipe1	inch	1/4
	Outer Diameter of Gas Pipe1	inch	3/8
	Outer Diameter of Liquid Pipe2	inch	1/4
Outdoor	Outer Diameter of Gas Pipe2	inch	3/8
Unit	Outer Diameter of Liquid Pipe3	inch	1/4
	Outer Diameter of Gas Pipe3	inch	3/8
	Outer Diameter of Liquid Pipe4	inch	1/4
	Outer Diameter of Gas Pipe4	inch	3/8
	Outer Diameter of Liquid Pipe5	inch	I
	Outer Diameter of Gas Pipe5	inch	I
	Connection Pipe Max. Height Distance (Indoor and Indoor)	m	25
	Max. equivalent connection pipe length	m	25
	Connection Pipe Max. Length Distance (total length)	m	80

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

Technical Information • • • • • • • • •

Model		-	ARGO PENTA 42 DCI R32
Product C	ode	-	398000797
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
Supply	Phases	-	1
Cooling C	apacity	kW	12.1
Heating C	apacity	kW	13
Cooling P	ower Input	kW	3.4
Heating P	ower Input	kW	3.19
Cooling C	urrent Input	Α	15.08
Heating C	current Input	Α	14.15
Rated Pov	wer Input	kW	Cooling: 4.6 / Heating: 5.0
Rated Cu	rrent	Α	Cooling: 20.41 / Heating: 21.74
EER		W/W	3.56
COP		W/W	4.08
	Compressor Trademark	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXFS-D280zX070C
	Compressor Refrigerant Oil Type	-	FW68DA or equivalent
	Compressor Type	-	Twin Rotary
	L.R.A	Α	40
	Compressor Rated Load Amp (RLA)	Α	1
	Compressor Power Input	W	2294
	Compressor Thermal Protector	-	KSD115°C HPC115/95U1
	Throttling Method	-	Electron expansion valve
	Cooling Operation Ambient Temperature Range	°C	-15~43
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	Condenser Material	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	φ7.94
	Rows-Fin Gap(mm)	mm	2-1.4
	Coil length (L) X Height (H) X Coil width (W)	mm	1066×792×38.1
	Fan Motor Speed (rpm) (H/M/L)	rpm	Cooling: 800 / Heating: 860
Outdoor	Output of Fan Motor	W	130
Outdoor Unit	Fan Motor RLA	Α	1
J	Fan Motor Capacitor	μF	1
	Air Flow Volume of Outdoor Unit	m³/h	5800
	Fan Type-Piece	-	Axial-flow
	Fan Diameter-Height	mm	550-205
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	T1
	Isolation	-	1
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Dimension (WXDXH)	mm	1020×427×826
	Dimension of Carton Box (LXWXH)	mm	1090×494×870
	Dimension of Package (LXWXH)	mm	1093×497×885
	Net Weight	kg	73
	Gross Weight	kg	80
	Refrigerant	-	R32
	Refrigerant Charge	kg	2.4

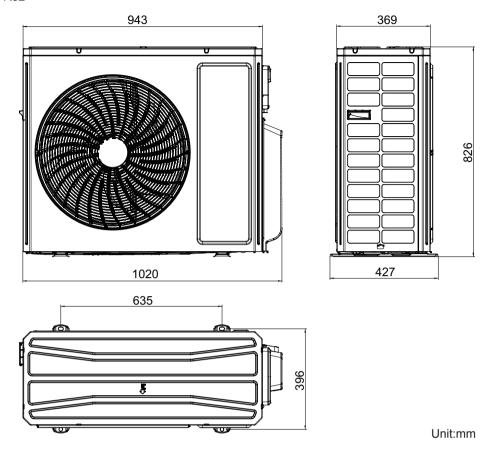
	Cross-sectional Area of Power Cable Conductor	mm ²	4
	Recommended Power Cable(Core)	N	3
	Connection Pipe Connection Method	-	Flare Connection
	Not Additional Gas Connection Pipe Length	m	50
	Connection Pipe Gas Additional Charge	g/m	20
	Outer Diameter of Liquid Pipe1	inch	1/4
	Outer Diameter of Gas Pipe1	inch	3/8
	Outer Diameter of Liquid Pipe2	inch	1/4
Outdoor	Outer Diameter of Gas Pipe2	inch	3/8
Unit	Outer Diameter of Liquid Pipe3	inch	1/4
	Outer Diameter of Gas Pipe3	inch	3/8
	Outer Diameter of Liquid Pipe4	inch	1/4
	Outer Diameter of Gas Pipe4	inch	3/8
	Outer Diameter of Liquid Pipe5	inch	1/4
	Outer Diameter of Gas Pipe5	inch	3/8
	Connection Pipe Max. Height Distance (Indoor and Indoor)	m	25
	Max. equivalent connection pipe length	m	25
	Connection Pipe Max. Length Distance (total length)	m	100

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

Technical Information • • • • • • • • • • • •

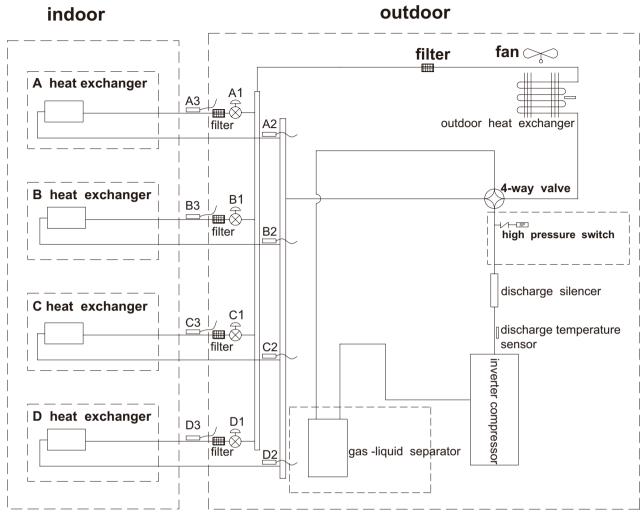
3. Outline Dimension Diagram

ARGO QUADRI 36 DCI R32 ARGO PENTA 42 DCI R32



4. Refrigerant System Diagram

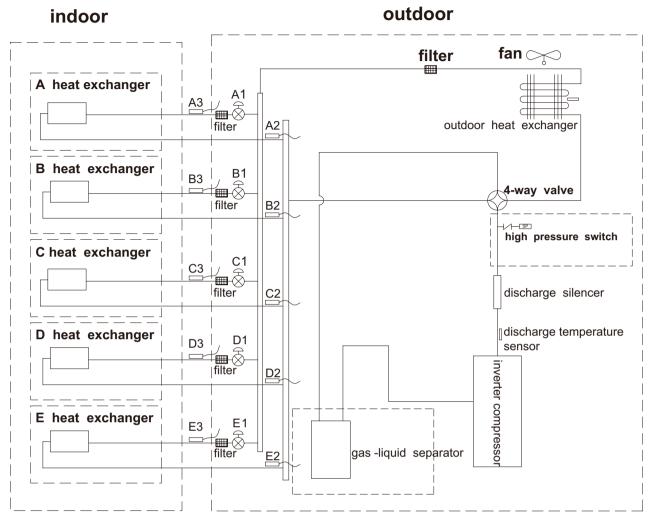
ARGO QUADRI 36 DCI R32



- A1: A-unit electronic expansion valve
- B1: B-unit electronic expansion valve
- C1: C-unit electronic expansion valve
- D1: D-unit electronic expansion valve
- A2: A-unit gas pipe temperature sensor
- B2: B-unit gas pipe temperature sensor
- C2: C-unit gas pipe temperature sensor
- D2: D-unit gas pipe temperature sensor
- A3: A-unit liquid pipe temperature sensor
- B3: B-unit liquid pipe temperature sensor
- C3: C-unit liquid pipe temperature sensor
- D3: D-unit liquid pipe temperature sensor

4. Refrigerant System Diagram

ARGO PENTA 42 DCI R32



- A1: A-unit electronic expansion valve
- B1: B-unit electronic expansion valve
- C1: C-unit electronic expansion valve
- D1: D-unit electronic expansion valve
- E1: E-unit electronic expansion valve
- A2: A-unit gas pipe temperature sensor
- B2: B-unit gas pipe temperature sensor
- C2: C-unit gas pipe temperature sensor
- D2: D-unit gas pipe temperature sensor
- E2: E-unit gas pipe temperature sensor
- A3: A-unit liquid pipe temperature sensor
- B3: B-unit liquid pipe temperature sensor
- C3: C-unit liquid pipe temperature sensor
- D3: D-unit liquid pipe temperature sensor
- E3: E-unit liquid pipe temperature sensor

Technical Information

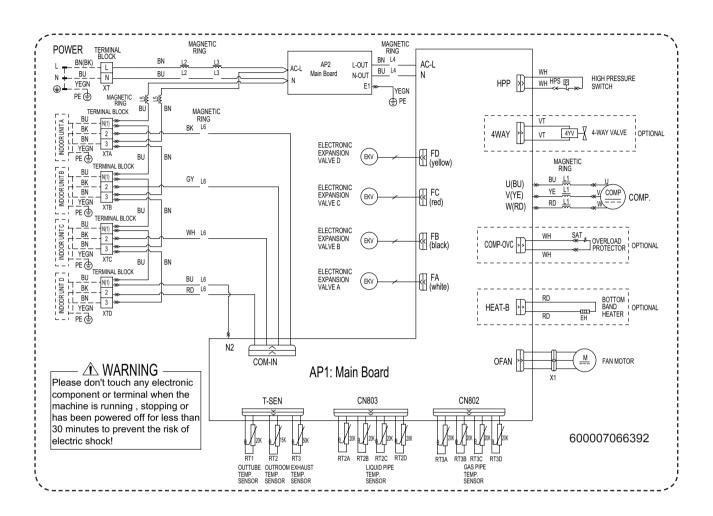
5.1 Wiring Diagram

•Instruction

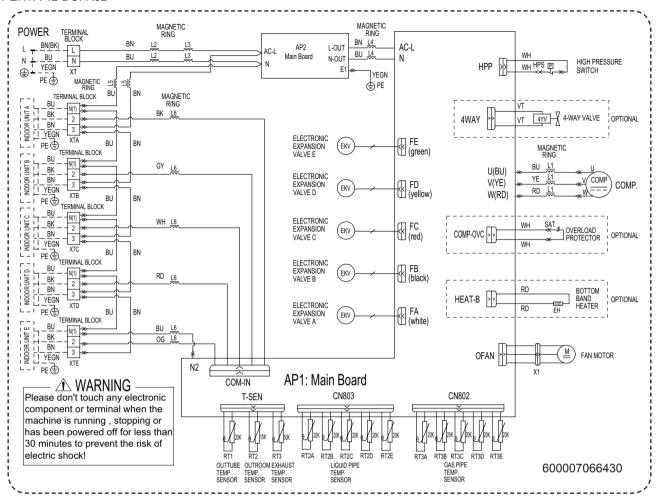
Symbol	Symbol Color	Symbo	ol Symbol Color		Symbol	Name
WH	White	GN	Green		COMP	Compressor
YE	Yellow	BN	Brown			Grounding wire
RD	Red	BU	Blue	-	/	/
YEGN	Yellow/Green	ВК	Black	-	/	/
VT	Violet	OG	Orange	_	/	/

Outdoor Unit

ARGO QUADRI 36 DCI R32

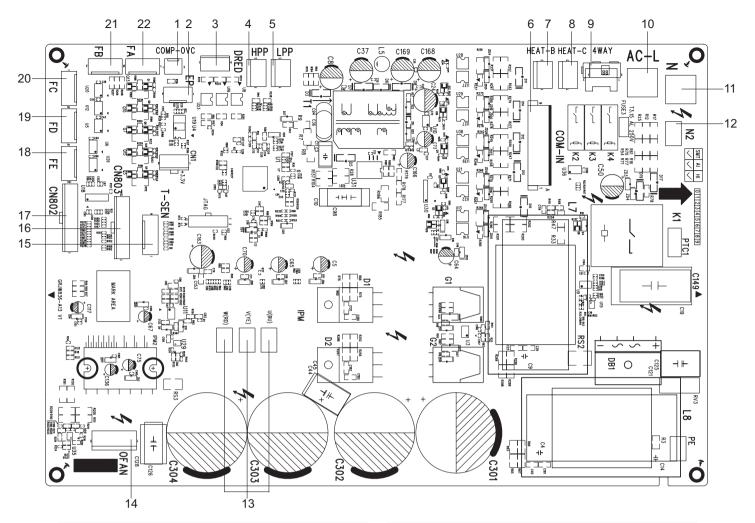


ARGO PENTA 42 DCI R32



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

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No.	Name	No.	Name
1	Overload protection terminal of compressor	12 Te	rminal of communication neutral wire
2	Terminal of E disk	13 Te	rminal of compressor
3	Terminal of DRED	14 Te	rminal of outdoor fan
4	Terminal of high pressure protection	15 Te	rminal of temperature Sensor
5	Terminal of low pressure protection	16 Te	rminal of liquid valve temperature Sensor
6	Terminal of communication wire	17 Te	rminal of gas valve temperature Sensor
7	Electric heating terminal of chassis	18 Te	rminal of electronic expansion valve E
8	Electric heating terminal of compressor	19 Te	rminal of electronic expansion valve D
9	Terminal of 4-way valve	20 Te	rminal of electronic expansion valve C
10	Terminal of live wire	21 Te	rminal of electronic expansion valve B
11	Terminal of neutral wire	22 Te	rminal of electronic expansion valve A

6. Function and Control

1 Basic functions of the system

1.1 Cooling Mode

1.1.1 Cooling conditions and process:

If the compressor is in stop status and start the unit for cooling operation, when one of the indoor units reaches the cooling operation condition, the unit start cooling operation; in this case, the electronic expansion valve, the outdoor fan and the compressor start operation.

1.1.2 Stop in cooling operation

1.1.2.1 Compressor stops

The compressor stops immediately, the outdoor fan stops after 1min.

1.1.2.2 Some of the indoor units reach the stop condition (the compressor does not stop)

The compressor operates immediately according to the required frequency. For the indoor unit with no requirement, the corresponding electronic expansion valve is closed to OP.

1.1.3 Cooling mode transfers to heating mode

When the unit transfers to heating mode, the 4-way valve is energized after the compressor stops for 2min. The other disposals are the same as stopping in cooling mode.

1.1.4 4-way valve: in this mode, the 4-way valve is closed.

1.1.5 Outdoor fan control in cooling mode

The outdoor fan starts before 5s of the starting of compressor. The outdoor fan will run in high speed for 3min after starting and then it will run in set speed. The fan shall run at every speed for at least 80s. (When the quantity of running indoor unit is changed, the unit will enter the control described in 1.3.5.1 and 1.3.5.2);

When the compressor stops, the outdoor fan runs at present speed and stops after 1min.

1.2 Dry Mode

- 1.2.1 The dry conditions and process are the same as those in cooling mode;
- 1.2.2 The status of 4-way valve: closed;
- 1.2.3 The temperature setting range: 16 ~ 30°C;
- 1.2.4 Protection function: the same as those in cooling mode;
- 1.2.5 In dry mode, the maximum value A of the capacity requirement percentage of single unit is 90% of that in cooling mode.

The open condition of the electronic expansion valve, outdoor fan and compressor is the same as those in cooling mode.

1.3 Heating Mode

1.3.1 Heating conditions and process:

When one of the indoor units reaches the heating operation condition, the unit starts heating operation.

- 1.3.2 Stop in heating operation:
- 1.3.2.1 When all the indoor units reach the stop condition, the compressor stops and the outdoor fan stops after 1min;
- 1.3.2.2 Some of the indoor units reach the stop condition

The compressor reduces the frequency immediately and operates according to the required frequency;

- 1.3.2.3 Heating mode transfers to cooling mode(dry mode), fan mode
- a. The compressor stops; b. the power of 4-way valve is cut off after 2min; c. the outdoor fan stops after 1min; d. the status of 4-way valve: energized;
- 1.3.3 Outdoor fan control in heating mode

The outdoor fan starts before 5s of the starting of compressor and then it will run in high speed for 40s;

The fan shall run at every speed for at least 80s:

When the compressor stops, the outdoor fan stops after 1min.

1.3.4 Defrosting function

When the defrosting condition is met, the compressor stops; the electronic expansion valve of all indoor units open in big angle; the outdoor fan stops after 40s of the stop of compressor, meanwhile, the 4-way valve reverses the direction; after the 4-way valve reverses the direction, the compressor starts; then begin to calculate the time of defrosting, the frequency of the compressor rises to reach the defrosting frequency.

- 1.3.5 Oil-returned control in heating mode
- 1.3.5.1 Oil-returned condition

The whole unit is operating in low frequency for a long time.

1.3.5.2 Oil-returned process in heating mode

The indoor unit displays "H1".

1.3.5.3 Oil-returned finished condition in heating mode

The duration reaches 5min.

1.4 Fan Mode

The compressor, the outdoor fan and the 4-way valve are closed; temperature setting range is $16 \sim 30^{\circ}$ C.

2 Protection Function

2.1 Mode Conflict Protection of indoor unit

When the setting mode is different of different indoor unit, the unit runs in below status:

a. The mode of the first operating indoor unit is the basic mode, then compare the mode of the other indoor units to see if there is a conflict. Cooling mode (dry mode) is in conflict with heating

6. Function and Control

mode.

b. Fan mode is in conflict with heating mode and the heating mode is the basic mode. No matter which indoor unit operates first, the unit will run in heating mode.

2.2 Overload protection function

When the tube temperature is a little low, the compressor raises the operation frequency; when the tube temperature is a little high, the compressor frequency is restricted or lows down the operation frequency; when the tube temperature is too high, the compressor protection stops running.

If the discharge temperature protection continuously appears for 6 times, the compressor can't resume running. The compressor can resume running after cutting off the power and then putting through the power. (if the running time of the compressor is longer than 7min, the protection times record will be cleared)

2.3 Discharge Protection Function

When the discharge temperature is a little low, the compressor raises the operation frequency; when the discharge temperature is a little high, the compressor frequency is restricted or lows down the operation frequency; when the discharge temperature is too high, the compressor protection stops running.

If the discharge temperature protection continuously appears for 6 times, the compressor can't resume running. The compressor can resume running after cutting off the power and then putting through the power. (if the running time of the compressor is longer than 7min, the protection times record will be cleared.)

2.4 Communication malfunction

Detection of the quantity of installed indoor units:

After 3min of energizing, if the outdoor unit does not receive the communication data of certain indoor unit, the outdoor unit will judge that indoor unit is not installed and will treat it as it is not installed. If the outdoor unit receives the communication data of that indoor unit later, the outdoor unit will treat that unit as it is installed.

2.5 Overcurrent Protection

a. Overcurrent protection of complete unit; b. phase wire current protection; c. compressor phase current protection

2.6 Compressor high-pressure protection

2.6.1 When the high-pressure switch is detected cut off for 3s continuously, the compressor will enter high-pressure protection as it stops when reaching set temperature. Meanwhile, the outdoor unit will send the signal of "high-pressure protection" to the indoor units:

2.6.2 After the appearance of high-pressure protection, when the high-pressure switch is detected closed for 6s continuously, the compressor can resume running only after cutting off the power

and then putting through the power.

2.7 Compressor overload protection

If the compressor overload switch is detected having movement, the indoor unit will display the corresponding malfunction as it stops when the indoor temperature reaching set temperature. When the compressor stops for more than 3min and the compressor overload switch is reset, the unit will resume operation status automatically. If the protection appears for more than 6 times (if the running time of the compressor is longer than 30min, the protection times record will be cleared), the unit can not resume operation status automatically, but can resume running only after cutting off the power and then putting through the power.

2.8 Compressor Phase-lacking Protection

When the compressor starts, if one of the three phases is detected open, the compressor will enter phase-lacking protection. The malfunction will be cleared after 1min, the unit will restart and then detect if there is still has phase-lacking protection. If the phase-lacking protection is detected for 6 times continuously, the compressor will not restart but can resume running only after cutting off the power and then putting through the power. If the running time of the compressor is longer than 7min, the protection times record will be cleared.

2.9 IPM Protection

2.9.1 When the IPM module protection is detected, the unit will stop as the indoor temperature reaching set temperature, PFC is closed, display IPM protection malfunction. After the compressor stops for 3min, the unit will resume operation status automatically; if the IPM protection is detected for more than 6 times continuously (If the running time of the compressor is longer than 7min, the protection times record will be cleared), the system will stop and send the signal of module protection to indoor unit. The unit can not resume operation status automatically, but can resume running only after cutting off the power and then putting through the power.

2.9.2 IPM module overheating protection

2.9.2.1 When TIPM>85°C, prohibit to raise frequency;

2.9.2.2 When TIPM>=90°C, the operation frequency of compressor lows down by 15% every 90s according to the present capacity requirement of the complete unit. It will keep 90s after lowing down the frequency. After lowing down the frequency, if TIPM>=90°C, the unit will circulate the above movement until reaching the minimum frequency; if 85°C<TIPM<90°C, the unit will run at this frequency; when TIPM 85°C, the unit will run at the frequency according to the capacity requirement;

2.9.2.3 When TIPM>=95°C, the compressor stops. After the compressor stops for 3min, if TIPM<85°C, the compressor and the outdoor fan will resume operation.

Safety Precautions: Important!

Please read the safety precautions carefully before installation and maintenance.

The following contents are very important for installation and maintenance.

Please follow the instructions below.

- •The installation or maintenance must accord with the instructions.
- Comply with all national electrical codes and local electrical codes.
- •Pay attention to the warnings and cautions in this manual.
- All installation and maintenance shall be performed by distributor or qualified person.
- •All electric work must be performed by a licensed technician according to local regulations and the instructions given in this manual.
- Be caution during installation and maintenance. Prohibit incorrect operation to prevent electric shock, casualty and other accidents.



Warnings

Electrical Safety Precautions:

- 1. Cut off the power supply of air conditioner before checking and maintenance.
- 2. The air condition must apply specialized circuit and prohibit share the same circuit with other appliances.
- 3. The air conditioner should be installed in suitable location and ensure the power plug is touchable.
- 4. Make sure each wiring terminal is connected firmly during installation and maintenance.
- 5. Have the unit adequately grounded. The grounding wire can't be used for other purposes.
- 6. Must apply protective accessories such as protective boards, cable-cross loop and wire clip.
- 7. The live wire, neutral wire and grounding wire of power supply must be corresponding to the live wire, neutral wire and grounding wire of the air conditioner.
- 8. The power cord and power connection wires can't be pressed by hard objects.
- 9. If power cord or connection wire is broken, it must be replaced by a qualified person.
- 10. If the power cord or connection wire is not long enough, please get the specialized power cord or connection wire from the manufacture or distributor. Prohibit prolong the wire by yourself.
- 11. For the air conditioner without plug, an air switch must be installed in the circuit. The air switch should be all-pole parting and the contact parting distance should be more than 3m.
- 12. Make sure all wires and pipes are connected properly and

the valves are opened before energizing.

- 13. Check if there is electric leakage on the unit body. If yes, please eliminate the electric leakage.
- 14. Replace the fuse with a new one of the same specification if it is burnt down; don't replace it with a cooper wire or conducting wire.
- 15. If the unit is to be installed in a humid place, the circuit breaker must be installed.

Installation Safety Precautions:

- 1. Select the installation location according to the requirement of this manual.(See the requirements in installation part)
- 2. Handle unit transportation with care; the unit should not be carried by only one person if it is more than 20kg.
- 3. When installing the indoor unit and outdoor unit, a sufficient fixing bolt must be installed; make sure the installation support is firm.
- 4. Ware safety belt if the height of working is above 2m.
- 5. Use equipped components or appointed components during installation.
- 6. Make sure no foreign objects are left in the unit after finishing installation.

Refrigerant Safety Precautions:

When refrigerant leaks or requires discharge during installation, maintenance, or disassembly, it should be handled by certified professionals or otherwise in compliance with local laws and regulations.

- 1. Avoid contact between refrigerant and fire as it generates poisonous gas; Prohibit prolong the connection pipe by welding.
- 2. Apply specified refrigerant only. Never have it mixed with any other refrigerant. Never have air remain in the refrigerant line as it may lead to rupture or other hazards.
- 3. Make sure no refrigerant gas is leaking out when installation is completed.
- 4. If there is refrigerant leakage, please take sufficient measure to minimize the density of refrigerant.
- 5. Never touch the refrigerant piping or compressor without wearing glove to avoid scald or frostbite.

Improper installation may lead to fire hazard, explosion, electric shock or injury.

Safety Precautions for Installing and Relocating the Unit:

To ensure safety, please be mindful of the following precautions.



1. When installing or relocating the unit, be sure to keep the refrigerant circuit free from air or substances other than the specified refrigerant.

Any presence of air or other foreign substance in the refrigerant circuit will cause system pressure rise or compressor rupture, resulting in injury.

2. When installing or moving this unit, do not charge the refrigerant which is not comply with that on the nameplate or unqualified refrigerant.

Otherwise, it may cause abnormal operation, wrong action, mechanical malfunction or even series safety accident.

3. When refrigerant needs to be recovered during relocating or repairing the unit, be sure that the unit is running in cooling mode. Then, fully close the valve at high pressure side (liquid valve). About 30-40 seconds later, fully close the valve at low pressure side (gas valve), immediately stop the unit and disconnect power. Please note that the time for refrigerant recovery should not exceed 1 minute.

If refrigerant recovery takes too much time, air may be sucked in and cause pressure rise or compressor rupture, resulting in injury.

4. During refrigerant recovery, make sure that liquid valve and gas valve are fully closed and power is disconnected before detaching the connection pipe.

If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure rise or compressor rupture, resulting in injury.

5. When installing the unit, make sure that connection pipe is securely connected before the compressor starts running.

If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure rise or compressor rupture, resulting in injury.

6.Prohibit installing the unit at the place where there may be leaked corrosive gas or flammable gas.

If there leaked gas around the unit, it may cause explosion and other accidents.

7.Do not use extension cords for electrical connections. If the electric wire is not long enough, please contact a local service center authorized and ask for a proper electric wire.

Poor connections may lead to electric shock or fire.

8.Use the specified types of wires for electrical connections between the indoor and outdoor units. Firmly clamp the wires so that their terminals receive no external stresses.

Electric wires with insufficient capacity, wrong wire connections and insecure wire terminals may cause electric shock or fire.

Safety Precautions for Refrigerant

- •To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The used refrigerant is the fluoride R32, which is specially cleaned. The refrigerant is flammable and inodorous. Furthermore, it can leads to explosion under certain conditions. But the flammability of the refrigerant is very low. It can be ignited only by fire.
- •Compared to common refrigerants, R32 is a nonpolluting refrigerant with no harm to the ozonosphere. The influence upon the greenhouse effect is also lower. R32 has got very good thermodynamic features which lead to a really high energy efficiency. The units therefore need a less filling.

WARNING:

•Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture.

Should repair be necessary, contact your nearest authorized Service Centre. Any repairs carried out by unqualified personnel may be dangerous. 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.)

- •Do not pierce or burn.
- •Appliance shall be installed, operated and stored in a room with a floor area larger than Xm².
- Appliance filled with flammable gas R32. For repairs, strictly follow manufacturers instructions only. Be aware that refrigrants not contain odour.
- •Read specialists manual.





Safety Operation of Flammable Refrigerant

Qualification requirement for installation and maintenance man

- •All the work men who are engaging in the refrigeration system should bear the valid certification awarded by the authoritative organization and the qualification for dealing with the refrigeration system recognized by this industry. If it needs other technician to maintain and repair the appliance, they should be supervised by the person who bears the qualification for using the flammable refrigerant.
- •It can only be repaired by the method suggested by the equipments manufacturer.

Installation notes

- •The air conditioner is not allowed to use in a room that has running fire (such as fire source,working coal gas ware, operating heater).
- •It is not allowed to drill hole or burn the connection pipe.
- •The air conditioner must be installed in a room that is larger

than the minimum room area.

The minimum room area is shown on the nameplate or following table a.

•Leak test is a must after installation.

table a - Minimum room area (m²)

Charge amount (kg)	floor location	window mounted	wall mounted	ceiling mounted
≤1.2	1	/	/	/
1.3	14.5	5.2	1.6	1.1
1.4	16.8	6.1	1.9	1.3
1.5	19.3	7	2.1	1.4
1.6	22	7.9	2.4	1.6
1.7	24.8	8.9	2.8	1.8
1.8	27.8	10	3.1	2.1
1.9	31	11.2	3.4	2.3
2	34.3	12.4	3.8	2.6
2.1	37.8	13.6	4.2	2.8
2.2	41.5	15	4.6	3.1
2.3	45.4	16.3	5	3.4
2.4	49.4	17.8	5.5	3.7
2.5	53.6	19.3	6	4

Maintenance notes

- Check whether the maintenance area or the room area meet the requirement of the nameplate.
- Its only allowed to be operated in the rooms that meet the requirement of the nameplate.
- Check whether the maintenance area is well-ventilated.
- The continuous ventilation status should be kept during the operation process.
- Check whether there is fire source or potential fire source in the maintenance area.
- The naked flame is prohibited in the maintenance area; and the "no smoking" warning board should be hanged.
- Check whether the appliance mark is in good condition.
- Replace the vague or damaged warning mark.

Welding

- •If you should cut or weld the refrigerant system pipes in the process of maintaining, please follow the steps as below:
- a. Shut down the unit and cut power supply
- b. Eliminate the refrigerant
- c. Vacuuming
- d. Clean it with N2 gas
- e. Cutting or welding
- f. Carry back to the service spot for welding

- •Make sure that there isn't any naked flame near the outlet of the vacuum pump and its well-ventilated.
- •The refrigerant should be recycled into the specialized storage tank.

Filling the refrigerant

- •Use the refrigerant filling appliances specialized for R32. Make sure that different kinds of refrigerant won't contaminate with each other.
- •The refrigerant tank should be kept upright at the time of filling refrigerant.
- •Stick the label on the system after filling is finished (or

havent finished).

- •Don't overfilling.
- •After filling is finished, please do the leakage detection before test running; another time of leak detection should be done when its removed.

Safety instructions for transportation and storage

- •Please use the flammable gas detector to check before unload and open the container.
- •No fire source and smoking.
- •According to the local rules and laws.

Main Tools for Installation and Maintenance















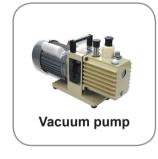






























Installation Procedures



Note: this flow is only for reference; please find the more detailed installation steps in this section.

8.1 Electrical Connections

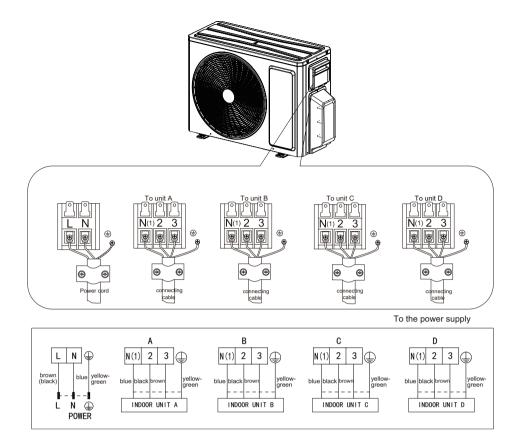
- 1. Remove the handle at the right side plate of the outdoor unit (one screw).
- 2. Remove the cable clamp, connect the power connection cable with the terminal at the row of connection and fix the connection. The fitting line distributing must be consistent with the indoor unit. terminal of line bank. Wiring should meet that of indoor unit.
- 3. Fix power connection wire by wire clamp.
- 4. Ensure wire has been fixed well.
- 5. Install the handle.
- ▲ Including an air switch with suitable capacity, please note the following table. Air switch should be included magnet buckle and heating buckle function, it can protect the circuit-short and overload. (Caution: please do not use the fuse only for protect the circuit)

Air-conditioner	Air switch capacity
398000796	32A
398000797	32A

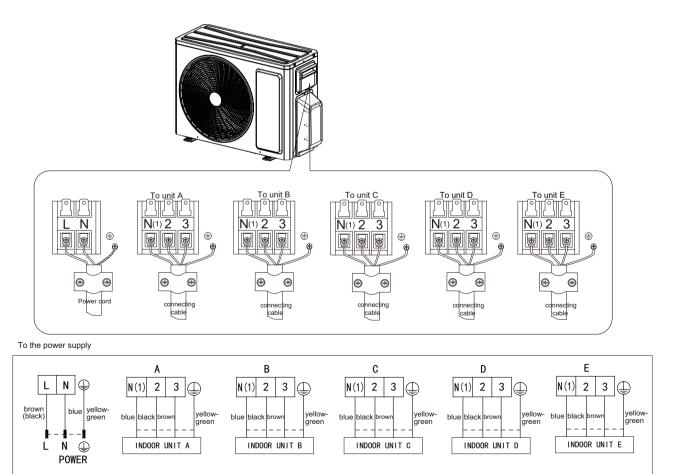
- ▲ An all-pole disconnection switch having a contact separation of at least 3mm in all pole should be connected in fixed wiring.
- ▲ Wrong wire connection may cause malfunction of some electric components. After fixing cable, ensure that leads between connection to fixed point have some space.
- ▲ For 36K, the connection pipes and the connectiong wirings of the unit A, unit B, unit C, unit D must be corresponding to each other respective.
- ▲ For 42K, the connection pipes and the connectiong wirings of the unit A, unit B, unit C, unit D, unit E must be corresponding to each other respective.
- ▲ The appliance shall be installed in accordance with national wiring regulations.

Note: the above figures are only intended to be a simple diagram of the appliance and may not correspond to the appearance of the units that have been purchased.

36K



42K



8.2 Installing the Outdoor Unit

⚠ Use bolts to secure the unit to a flat, solid floor.

When mounting the unit on a wall or the roof, make sure the support is firmly secured so that it cannot move in the event of intense vibrations or a strong wind.

⚠ Do not install the outdoor unit in pits or air vents.

Installing the pipes

▲ Use suitable connecting pipes and equipment for the refrigerant R32.

Models(m)	36Kx4	42Kx5	
Max. connection pipe length	80	100	
Max. connection pipe length (Simpleone indoor unit)	25	25	

The sum of the capacity codes of the indoor units should be among 50%-150% of that of the outdoor unit.

The refrigerant pipes must not exceed the maximum heights 25m(36~42K).

 ⚠ Wrap all the refrigerant pipes and joints.

▲ Tighten the connections using two wrenches working in opposite directions.

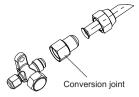
Caution: Installation Must be Performed in Accordance with the NEC/CEC by Authorized Personnel Only.

Humid air left inside the refrigerant circuit can cause compressor malfunction. After having connected the indoor and outdoor units, bleed the air and humidity from the refrigerant circuit using a vacuum pump.

- (1) Unscrew and remove the caps from the 2-way and 3-way valves.
- (2) Unscrew and remove the cap from the service valve.
- (3) Connect the vacuum pump hose to the service valve.
- (4) Operate the vacuum pump for 10-15 minutes until an absolute vacuum of 10 mm Hg has been reached.
- (5) With the vacuum pump still in operation, close the low-pressure knob on the vacuum pump coupling. Stop the vacuum pump.
- (6) Open the 2-way valve by 1/4" turn and then close it after 10 seconds. Check all the joints for leaks using liquid soap or an electronic leak device.
- (7) Turn the body of the 2-way and 3-way valves. Disconnect the vacuum pump hose.
- (8) Replace and tighten all the caps on the valves.

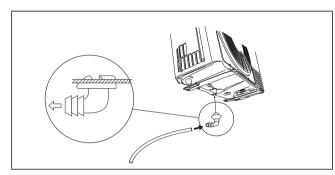
Piping size (inch)	Twisting moment (N·m)
Ф1/4	15-20
Ф3/8	35-40
Ф1/2	60-65
Ф5/8	45-50
Ф3/4	70-75

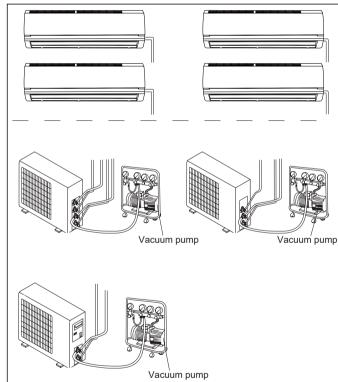
(9) If the specification of the outdoor unit's valve is unsuitable for the specification of the indoor unit, a conversion joint is needed to match the outdoor unit's valve and connection pipe, as shown in following.

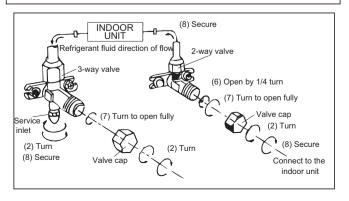


Install the drain fitting and the drain hose(for model with heat pump only)

Condensation is produced and flows from the outdoor unit when the appliance is operating in the heating mode. In order not to disturb neighbours and to respect the environment, install a drain fitting and a drain hose to channel the condensate water. Install the drain fitting and rubber washer on the outdoor unit chassis and connect a drain hose to it as shown in the figure.

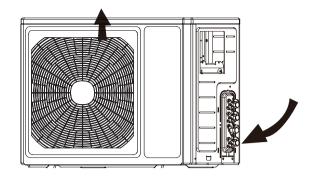




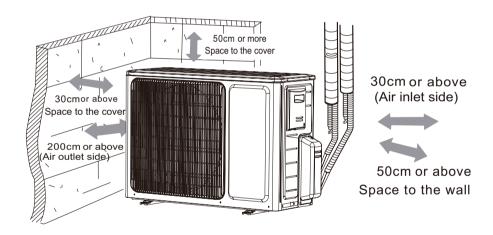


8.3 Installation Dimension Diagram

- ⚠ Use suitable instruments for the refrigerant R32.
- ⚠ Do not use any other refrigerant than R32.
- ♠ Do not use mineral oils to clean the unit.



- ⚠ The installation must be done by trained and qualified service personnel with reliability according to this manual.
- ⚠ Contact service center before installation to avoid the malfunction due to unprofessional installation.
- ⚠ When picking up and moving the units, you must be guidedby trained and qualified person.
- ⚠ Ensure that the recommende dspace is left around the appliance.



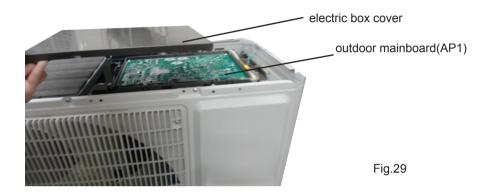
8.4 Check after Installation

Check Items	Problems Owing to Improper Installation
Is the installation reliable?	The unit may drop, vibrate or make noises
Has the gas leakage been checked?	May cause unsatisfactory cooling (heating) effect
Is the thermal insulation of the unit sufficient?	May cause condensation and water dropping
Is the drainage smooth?	May cause condensation and water dropping
Does the power supply voltage accord with the rated voltage specified on the nameplate?	The unit may bread down or the components may be burned out
Are the lines and pipelines correctly installed?	The unit may bread down or the components may be burned out
Has the unit been safely grounded?	Risk of electrical leakage
Are the models of lines in conformity with requirements?	The unit may bread down or the components may be burned out
Are there any obstacles near the air inlet and outlet of the indoor and outdoor units?	The unit may bread down or the components may be burned out
Have the length of refrigerating pipe and refrigerant charge amount been recorded?	It is not easy to decide the charge amount of refrigerant.

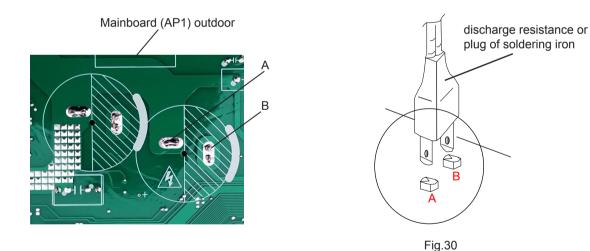
9.1 Precautions before Performing Inspection or Repair

There are high-capacity electrolytic capacitors on the outdoor mainboard. Thus, even the power is cut off, there is high voltage inside the capacitors and it needs more than 20min to reduce the voltage to safety value. Touching the electrolytic capacitor within 20min after cutting the power will cause electric shock. If maintenance is needed, follow the steps below to discharge electricity of electrolytic capacitor after power off.

(1) Open the top cover of outdoor unit and then remove the cover of electric box cover.



(2) As shown in the fig below, connect the plug of discharge resistance (about 100ohm, 20W) (if there is no discharge resistance, you can use the plug of soldering iron) to point A and B of electrolytic capacitor. There will be sparks when touching them. Press them forcibly for 30s to discharge electricity of electrolytic capacitor.



(3) After finish discharging electricity, measure the voltage between point A and B with universal meter to make sure if electricity discharging is completed, in order to prevent electric shock. If the voltage between the two points is below 20V, you can perform maintenance safely.

9.2 Flashing LED of Indoor/Outdoor Unit and Primary Judgement

1. Requirement of malfunction display

When several malfunctions happen at the same time, malfunction codes will be displayed circularly.

- 2. Malfunction display method
- (1) Hardware malfunction: it will be displayed immediately, please refer to "Malfunction status sheet";
- (2) Operation status: it will be displayed immediately, please refer to "Malfunction status sheet";
- (3) Other malfunction: It will be displayed after the compressor has been stopped for 200s, please refer to "Malfunction status sheet".

(Note: when the compressor starts up again, malfunction display waiting time (200s) will be cleared.)

3. Malfunction display control

Indoor unit displays malfunction code as shown in the sheet below. ODU communication light will be off for 1s and then blink for 1s circularly.

Malfunction status	sheet	
Malfunction name	Malfunction type	Nixie tube
Zero cross detection circuit malfunction	Hardware malfunction	U8
Malfunction protection of jumper cap	Hardware malfunction	C5
Feedback of without IDU motor	Hardware malfunction	H6
Indoor ambient temperature sensor is open/short circuited	Hardware malfunction	F1
Indoor evaporator temperature sensor is open/short circuited	Hardware malfunction	F2
Liquid valve temperature sensor is open/short circuited	Hardware malfunction	b5
Gas valve temperature sensor is open/short circuited	Hardware malfunction	b7
Modular temperature sensor is open/short circuited	Hardware malfunction	P7
Outdoor ambient temperature sensor is open/short circuited	Hardware malfunction	F3
Outdoor condenser middle pipe temperature sensor is open/short circuited	Hardware malfunction	F4
Outdoor discharge temperature sensor is open/short circuited	Hardware malfunction	F5
Communication malfunction	Hardware malfunction	E6
Malfunction of phase current detection circuit for compressor	Hardware malfunction	U1
Compressor demagnetization protection	Viewing malfunction code through remote controller within 200s; displayed directly on nixietube after 200s	HE
Malfunction of voltage dropping for DC bus-bar		U3
Module high temperature protection		P8
Refrigerant lacking or blockage protection of system (not available for residential ODU)		F0
Charging malfunction of capacitor	Hardware malfunction	PU
High pressure protection of system	Hardware malfunction	E1
Low pressure protection of system (reserved)	Hardware malfunction	E3

Compressor overload protection	Viewing malfunction code	
	through remote controller within	H3
	200s; displayed directly on	113
	nixietube after 200s	
Indoor unit and outdoor unit do not match	Hardware malfunction	LP
Malfunction of memory chip	Hardware malfunction	EE
Wrong connection of communication wire or malfunction of	Hardware malfunction	dn
electronic expansion valve		
Malfunction of complete units current detection	Hardware malfunction	U5
Malfunction protection of outdoor fan 1	Hardware malfunction	L3
Detection status of wrong connection of communication wire	Operation status	dd
or malfunction of electronic expansion valve		
Mode conflict	Operation status	E7
Refrigerant recycling mode	Operation status	Fo
X-fan	Operation status	AL
Defrosting or oil return in heating mode	Operation status	H1
Start failure of compressor	Viewing malfunction code through remote controller within	Lc
High discharge temperature protection of compressor		E4
Overload protection		E8
Whole unit overcurrent protection		E5
Compressor phase current protection		P5
Compressor desynchronizing		H7
Compressor phase-lacking/phase-inverse protection	200s; displayed directly on	Ld
IPM modular protection	nixietube after 200s	H5
DC bus-bar low voltage protection		PL
DC bus-bar high voltage protection		PH
PFC protection		HC
The four-way valve is abnormal		U7

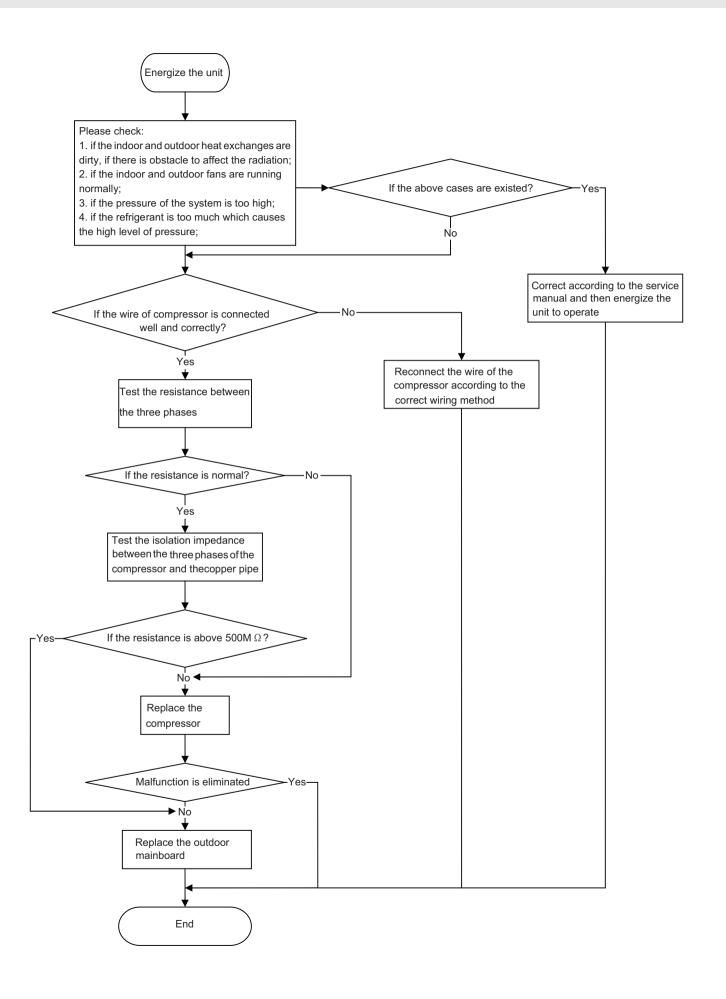
9.3 Malfunction Checking and Elimination

1 IPM protection malfunction:

Main checking point:

- If the input voltage of the unit is within normal range?
- If the connection wire of compressor is connected well? Is it loose? If the connection sequence is correct?
- If the resistance of compressor coil is normal? If the isolation of compressor coil with copper pipe is good?
- If the unit is overloaded? If the heat radiation of the unit is good?
- If the refrigerant charge is suitable?

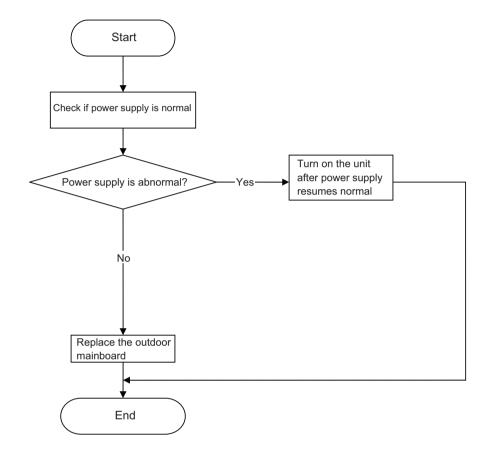
Flow chart:



- 2. PFC protection malfunction, capacity charging malfunction Main checking points:
- If the wiring of the induction is connected well and if the induction is broken;
- If the mainboard is broken;

Flow chart:

For 14/18K

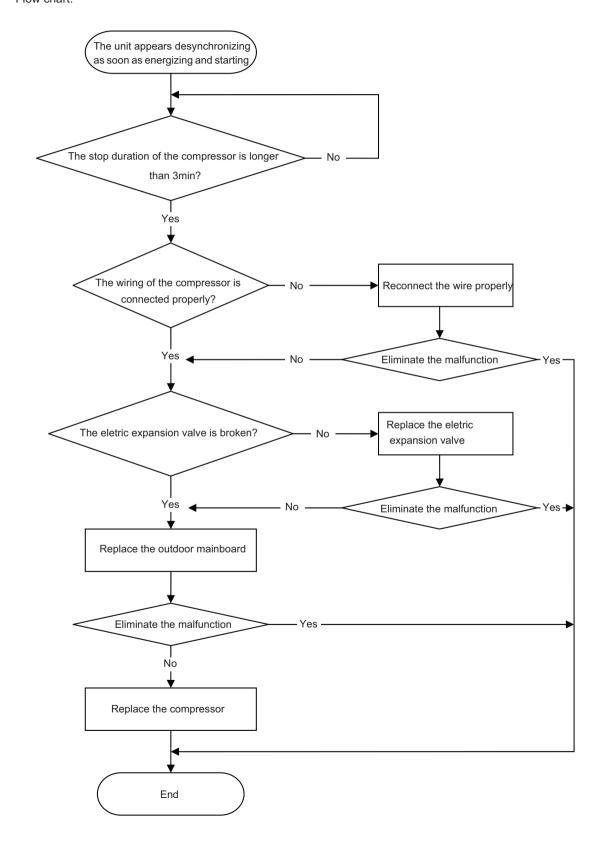


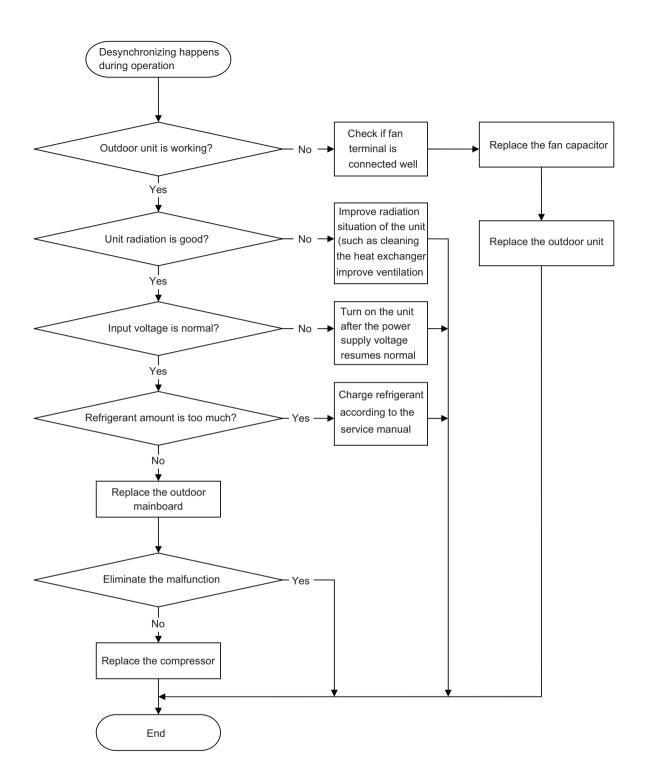
3. Compressor desynchronizing malfunction

Main checking points:

- If the pressure of the system is too high;
- If the eletric expansion valve is working normally or it is broken;
- If the radiation of the unit is good;

Flow chart:



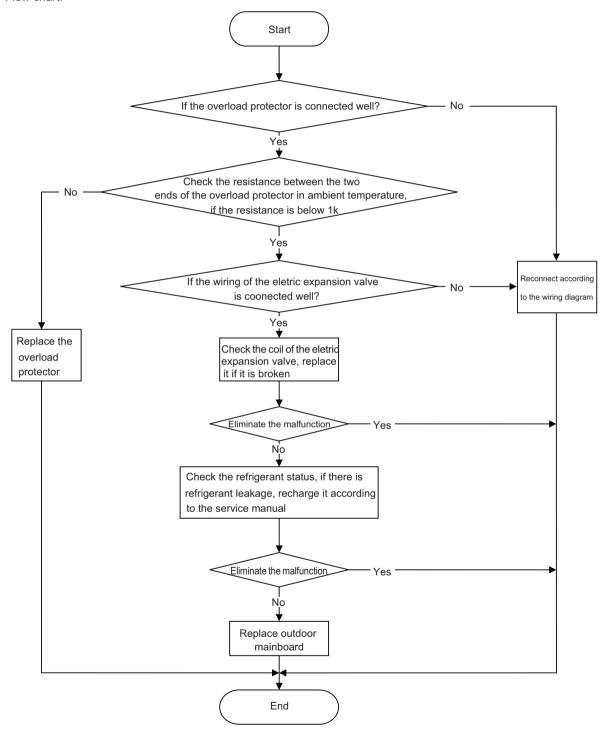


4. Compressor overload, diacharge protectionmalfunction

Main checking points:

- If the eletric expansion valve is connected well or it is broken;
- If there is refrigerant leakage;
- If the overload protector is broken;

Flow chart:



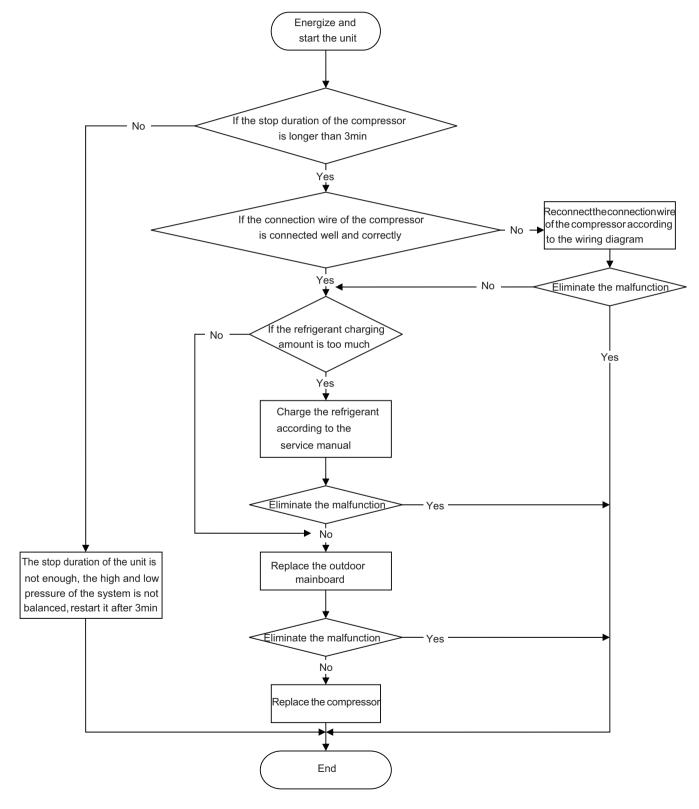
Note: the detection method of the coil of the eletric expansion valve: there is five pieces of coil of the eletric expansion valve, the resistance of one of them (the leftmost or the rightmost one) is almost the same as the resistance of other terminal (within 100Ω). Judge the condition of the electronic expansion valve through detecting these resistance.

5. Start failuremalfunction

Main checking points:

- If the connection wire of the compressor is connected properly;
- If the stop duration of the compressor is sufficient;
- If the compressor is broken;
- If the refrigerant charging amount is too much;

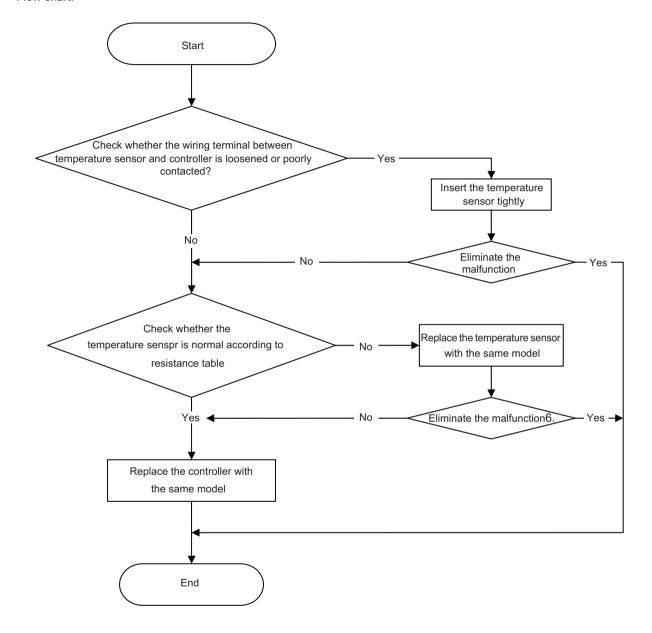
Flow chart:



6. Temperature sensor malfunction

Main checking points:

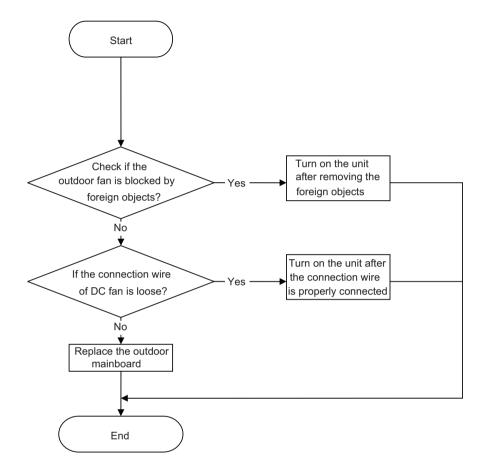
- If the temperature sensor is damaged or broken
- If the terminal of the temperature sensor is loosended or not connected;
- If the mainboard is broken;



7. DC fan malfunction

Main checking points:

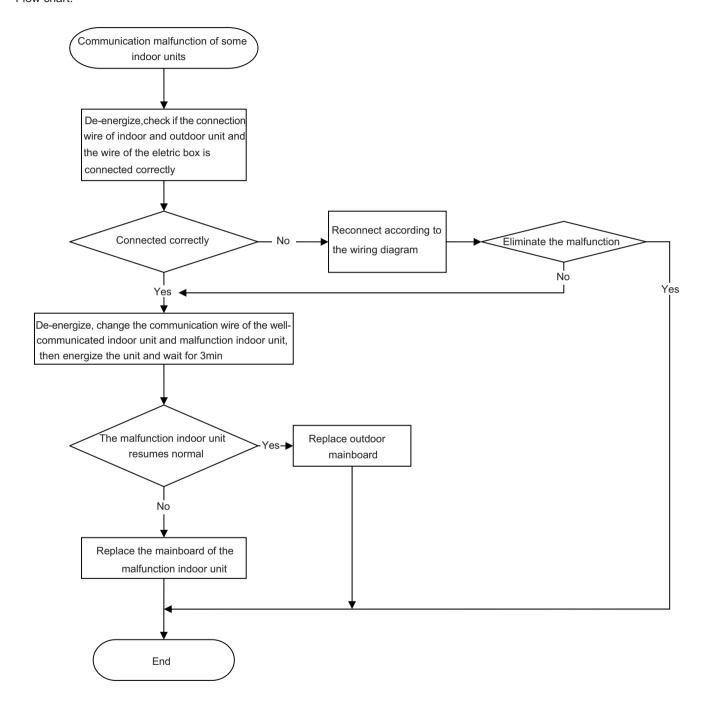
- If the outdoor fan is blocked by foreign objects;
- The connection wire of DC fan is connected reliably? If it is loose?

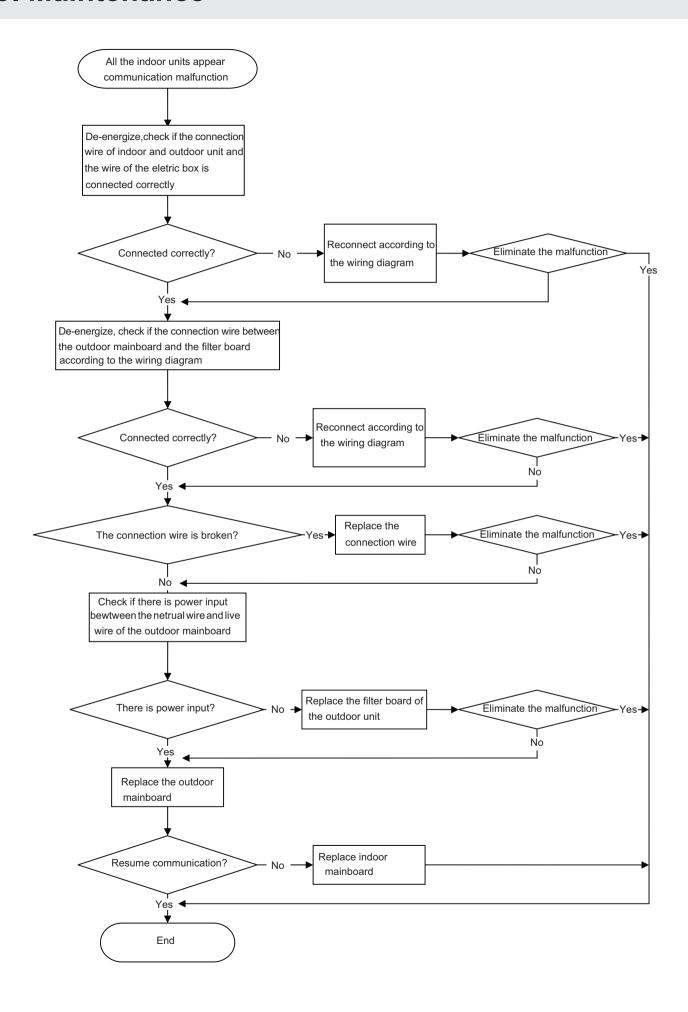


8. Communication malfunction

Main checking points:

- If the connection wire between the indoor unit and outdoor unit is connected well, if the wires inside the unit is connected well;
- If the indoor mainboard or outdoor main board is broken;

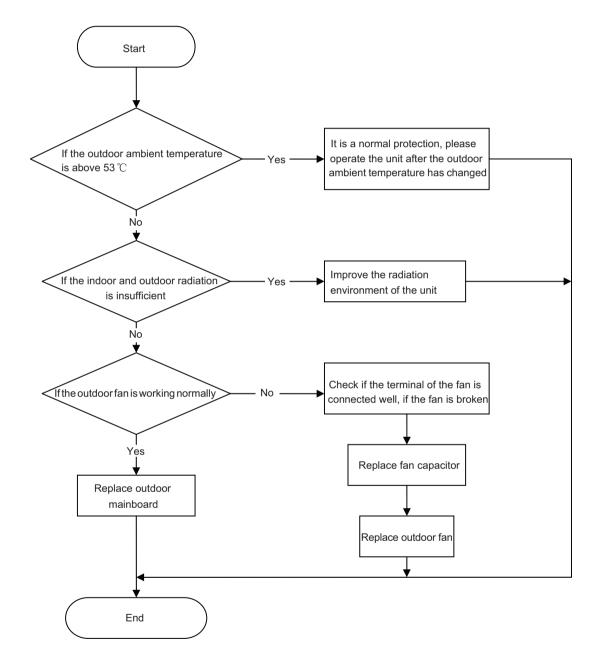




9. Anti-high temperatureand overload malfunction

Main checking points:

- If the outdoor ambient temperature is within the normal range;
- If the indoor fan and outdoor fan are running normally;
- If the indoor and outdoor radiation environment is good;



9.4 Troubleshooting for Normal Malfunction

1. Air Conditioner Can't be Started Up

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting	
for power plug	bright and the buzzer can't give out sound	Confirm whether its due to power failure. If yes, wait for power recovery. If not, check power supply circuit and make sure the power plug is connected well.	
Wrong wire connection between indoor unit and outdoor unit, or poor connection for wiring terminals		Check the circuit according to circuit diagram and connect wires correctly. Make sure all wiring terminals are connected firmly	
Electric leakage for air conditioner		Make sure the air conditioner is grounded reliably Make sure wires of air conditioner is connected correctly Check the wiring inside air conditioner. Check whether the insulation layer of power cord is damaged; if yes, place the power cord.	
IIIIIDIODEI	After energization, air switch trips off	Select proper air switch	
	After energization, operation indicator is bright, while no display on remote controller or buttons have no action.	Replace batteries for remote controller Repair or replace remote controller	

2. Poor Cooling (Heating) for Air Conditioner

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
Set temperature is improper	Observe the set temperature on remote controller	Adjust the set temperature
Rotation speed of the IDU fan motor is set too low	Small wind blow	Set the fan speed at high or medium
Filter of indoor unit is blocked	Check the filter to see its blocked	Clean the filter
Installation position for indoor unit and outdoor unit is improper	Check whether the installation postion is proper according to installation requirement for air conditioner	Adjust the installation position, and install the rainproof and sunproof for outdoor unit
Refrigerant is leaking	Discharged air temperature during cooling is higher than normal discharged wind temperature; Discharged air temperature during heating is lower than normal discharged wind temperature; Units pressure is much lower than regulated range	Find out the leakage causes and deal with it. Add
Malfunction of 4-way valve	Blow cold wind during heating	Replace the 4-way valve
Malfunction of capillary	Discharged air temperature during cooling is higher than normal discharged wind temperature; Discharged air temperature during heating is lower than normal discharged wind temperature; Unitt pressure is much lower than regulated range. If refrigerant isn't leaking, part of capillary is blocked	Replace the capillary
Flow volume of valve is insufficient	The pressure of valves is much lower than that stated in the specification	Open the valve completely
Malfunction of horizontal louver	Horizontal louver can't swing	Refer to point 3 of maintenance method for details
Malfunction of the IDU fan motor	The IDU fan motor can't operate	Refer to troubleshooting for H6 for maintenance method in details
Malfunction of the ODU fan motor	The ODU fan motor can't operate	Refer to point 4 of maintenance method for details
Malfunction of compressor	Compressor can't operate	Refer to point 5 of maintenance method for details

3. Horizontal Louver Can't Swing

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
	Check the wiring status according to circuit diagram	Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
		Repair or replace stepping motor
Main board is damaged	Others are all normal, while horizontal louver can't operate	Replace the main board with the same model

4. ODU Fan Motor Can't Operate

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
Wrong wire connection, or poor connection		Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
Capacity of the ODU fan motor is damaged	Measure the capacity of fan capacitor with an universal meter and find that the capacity is out of the deviation range indicated on the nameplate of fan capacitor.	Replace the capacity of fan
	Ivoltage. The voltage is a little high of low	
Motor of outdoor unit is damaged	When unit is on, cooling/heating performance is bad and ODU compressor generates a lot of noise and heat.	Change compressor oil and refrigerant. If no better, replace the compressor with a new one

5. Compressor Can't Operate

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
Wrong wire connection, or poor connection		Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
	Measure the capacity of fan capacitor with an universal meter and find that the capacity is out of the deviation range indicated on the nameplate of fan capacitor.	Replace the compressor capacitor
Power voltage is a little low or high	IVOITAGE. THE VOITAGE IS A TIME HIGH OF TOW	Suggest to equip with voltage regulator
Coil of compressor is burnt out	Use universal meter to measure the resistance between compressor terminals and its 0	Repair or replace compressor
Cylinder of compressor is blocked	Compressor can't operate	Repair or replace compressor

6. Air Conditioner is Leaking

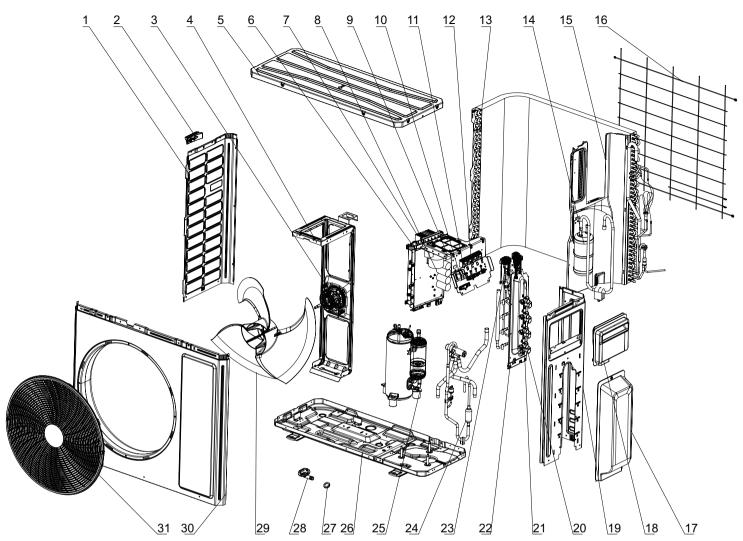
Possible causes	Discriminating method (air conditioner status)	Troubleshooting
Drain pipe is blocked	Water leaking from indoor unit	Eliminate the foreign objects inside the drain pipe
Drain pipe is broken		Replace drain pipe
Wrapping is not tight	Water leaking from the pipe connection place of indoor unit	Wrap it again and bundle it tightly

7. Abnormal Sound and Vibration

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
When turn on or turn off the unit, the panel and other parts will expand and theres abnormal sound	Theres the sound of "PAPA"	Normal phenomenon. Abnormal sound will disappear after a few minutes.
When turn on or turn off the unit, theres abnormal sound due to flow of refrigerant inside air conditioner	Water-running sound can be heard	Normal phenomenon. Abnormal sound will disappear after a few minutes.
Foreign objects inside the indoor unit or therere parts touching together inside the indoor unit	Theres abnormal sound fro indoor unit	Remove foreign objects. Adjust all parts position of indoor unit, tighten screws and stick damping plaster between connected parts
Foreign objects inside the outdoor unit or therere parts touching together inside the outdoor unit	Theres abnormal sound fro outdoor unit	Remove foreign objects. Adjust all parts position of outdoor unit, tighten screws and stick damping plaster between connected parts
Short circuit inside the magnetic coil	During heating, the way valve has abnormal electromagnetic sound	Replace magnetic coil
Abnormal shake of compressor	Outdoor unit gives out abnormal sound	Adjust the support foot mat of compressor, tighten the bolts
Abnormal sound inside the compressor	Abnormal sound inside the compressor	If add too much refrigerant during maintenance, please reduce refrigerant properly. Replace compressor for other circumstances.

10. Exploded View and Parts List

ARGO QUADRI 36 DCI R32



The component is only for rererence; please refer to the actual product.

NO.	Description
1	Left Side Plate
2	Handle
3	Brushless DC Motor
4	Motor Support Sub-Assy
5	Top Cover Sub-Assy
6	Electric Box Assy
7	Radiator
8	Main Board
9	Filter Board
10	Terminal Board
11	Terminal Board

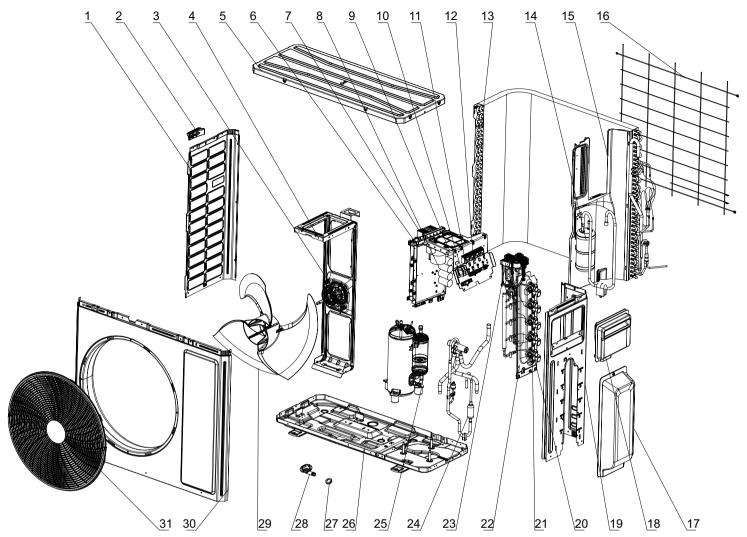
NO.	Description
12	Wire Clamp
13	Condenser Assy
14	Gas-liquid Separator Assy
15	Clapboard
16	Rear Grill
17	Valve Cover
18	Handle
19	Right Side Plate
20	Cut off Valve Sub-Assy(1/4)
21	Cut off Valve Sub-Assy(3/8)
22	Valve Support Sub-Assy

NO.	Description
23	Electronic Expansion Valve assy
24	4-Way Valve Assy
25	Compressor and Fittings
26	Chassis Sub-assy
27	Drainage hole Cap
28	Drainage Joint
29	Axial Flow Fan
30	Cabinet
31	Front Grill

Some models may not contain some parts, please refer to the actual product.

10. Exploded View and Parts List

ARGO PENTA 42 DCI R32



The component is only for rererence; please refer to the actual product.

NO.	Description
1	Left Side Plate
2	Handle
3	Brushless DC Motor
4	Motor Support Sub-Assy
5	Top Cover Sub-Assy
6	Electric Box Assy
7	Radiator
8	Main Board
9	Filter Board
10	Terminal Board
11	Terminal Board

NO.	Description
12	Wire Clamp
13	Condenser Assy
14	Gas-liquid Separator Assy
15	Clapboard
16	Rear Grill
17	Valve Cover
18	Handle
19	Right Side Plate
20	Cut off Valve Sub-Assy(1/4)
21	Cut off Valve Sub-Assy(3/8)
22	Valve Support Sub-Assy

NO.	Description
23	Electronic Expansion Valve assy
24	4-Way Valve Assy
25	Compressor and Fittings
26	Chassis Sub-assy
27	Drainage hole Cap
28	Drainage Joint
29	Axial Flow Fan
30	Cabinet
31	Front Grill

Some models may not contain some parts, please refer to the actual product.

ARGO QUADRI 36 DCI R32 ARGO PENTA 42 DCI R32

NOTE: Take 42K model for example.

Warning: Be sure to wait for a minimum of 20 minutes after turning off all power supplies and discharge the refrigerant completely before removal.

		completely before removal.
Step		Procedure
1. Bet	ore disassembly	
	Complete axonometric drawing.	
2. Ren	nove valve cover	
	Remove the connection screw fixing the valve cover and then remove the valve cover.	valve cover
3. Rei	move handle	
	Remove the connection screws fixing the handle and the right side plate, and then remove the handle.	Handle

Step Procedure 4. Remove top panel Top panel Remove the connection screws connecting the top panel and the front panel, and then remove the top panel. 5. Remove front grille Grille Remove the connection screws connecting the front grille and the front panel, and then loosen the clasp to remove the front grille. 6. Remove front panel Remove the screws connecting the front panel and then remove the front panel. Front panel

Step Procedure 7. Remove right side plate Right side plate Remove the screws connecting the right side plate with the chassis and the valve support. Then remove the right side plate. 8. Remove rear grill Rear grill Remove the screws connecting the rear grill and left side plate, and then remove the rear grill. 9. Remove left side plate Left side plate Remove the screws fixing the left side plate with the chassis and the condenser support, and then remove the left side plate.

Step Procedure 10. Remove axial flow blade Axial flow blade Remove the nut on the blade and then remove the axial flow blade. 11. Remove motor and motor support Motor support Motor Remove the 4 tapping screws fixing the motor and disconnect the leading wire insert of the motor. Then remove the motor. Remove the 2 tapping screws fixing the motor support and chassis, and then lift the motor support to remove it. Electric box assy 12. Remove electric box assy Remove the screws fixing the electric box assy and the middle isolation sheet, loosen the wire bundle, unplug the wiring terminals, and then lift the electric box assy to remove it.

Step Procedure 13. Remove 4-way valve assy 4-way valve assy Remove screws fixing the electricbox; loosen the wire bundle; pull out the wiring terminals and then pull electric box upwards to remove it. 14. Remove valve support sub-assy and expansion valve assy Expansion valve assy Remove the screw connecting the valve support and the chassis, and then remove the valve support assy. Unsolder the welding joint connecting the electronic expansion valve assy with the cut-off valve and the condenser connection pipe, and then remove the e xpansion valve assy. Valve support assy 15. Remove middle isolation sheet Middle isolation sheet Remove the screws connecting the middle isolation sheet with the chassis assy and the condenser assy, and then remove the middle isolation sheet.

Step Procedure 16. Remove compressor Compressor Remove the 3 foot nuts fixing the compressor and then remove the compressor. 17. Remove condenser assy Condenser assy Support-Remove the screws fixing the condenser support and then remove the condenser support. Remove the screws connecting the condenser support and the chassis assy, and then remove the condenser assy.

Appendix 1: Reference Sheet of Celsius and Fahrenheit

Conversion formula for Fahrenheit degree and Celsius degree: Tf=Tcx1.8+32

Set temperature

•		
Fahrenheit display temperature(°F)	Fahrenheit (°F)	Celsius (°C)
61	60.8	16
62/63	62.6	17
64/65	64.4	18
66/67	66.2	19
68	68	20

Fahrenheit (°F)	Celsius (°C)
69.8	21
71.6	22
73.4	23
75.2	24
77	25
	(°F) 69.8 71.6 73.4 75.2

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)
78/79	78.8	26
80/81	80.6	27
82/83	82.4	28
84/85	84.2	29
86	86	30

Ambient temperature

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)
32/33	32	0
34/35	33.8	1
36	35.6	2
37/38	37.4	3
39/40	39.2	4
41/42	41	5
43/44	42.8	6
45	44.6	7
46/47	46.4	8
48/49	48.2	9
50/51	50	10
52/53	51.8	11
54	53.6	12

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)
55/56	55.4	13
57/58	57.2	14
59/60	59	15
61/62	60.8	16
63	62.6	17
64/65	64.4	18
66/67	66.2	19
68/69	68	20
70/71	69.8	21
72	71.6	22
73/74	73.4	23
75/76	75.2	24
77/78	77	25

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)
temperature (1)		(0)
79/80	78.8	26
81	80.6	27
82/83	82.4	28
84/85	84.2	29
86/87	86	30
88/89	87.8	31
90	89.6	32
91/92	91.4	33
93/94	93.2	34
95/96	95	35
97/98	96.8	36
99	98.6	37

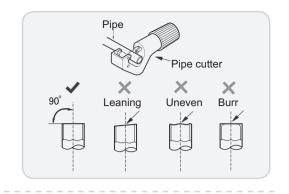
Appendix 2: Pipe Expanding Method

⚠ Note:

Improper pipe expanding is the main cause of refrigerant leakage. Please expand the pipe according to the following steps:

A:Cut the pip

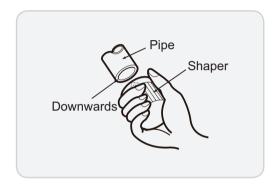
- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.



B:Remove the burrs

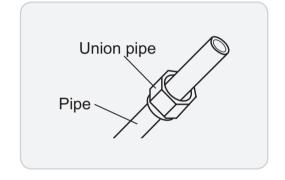
• Remove the burrs with shaper and prevent the burrs from getting into the pipe.

C:Put on suitable insulating pipe.



D:Put on the union nut

• Remove the union nut on the indoor connection pipe and outdoor valve; install the union nut on the pipe.



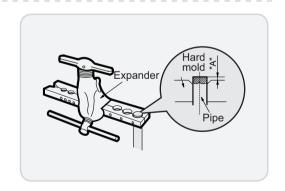
E:Expand the port

• Expand the port with expander.

⚠ Note:

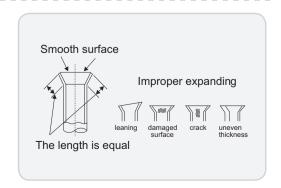
• "A" is different according to the diameter, please refer to the sheet below:

Outer diameter(mm)	A(mn	n)
Outer diameter(mm)	Max	Min
Ф6 - 6.35 (1/4")	1.3	0.7
Ф9 - Ф9.52 (3/8")	1.6	1.0
Ф12 - 12.70 (1/2")	1.8	1.0
Ф16 - 15.88 (5/8")	2.4	2.2



F:Inspection

• Check the quality of expanding port. If there is any blemish, expand the port again according to the steps above.



Appendix 3: List of Resistance for Temperature Sensor

Resistance Table of Ambient Temperature Sensor for Indoor and Outdoor Units(15K)

Tomn(°C)	Desistance(kO)
Temp(°C)	Resistance(kΩ)
-19	138.1
-18	128.6
-17	121.6
-16	115
-15	108.7
-14	102.9
-13	97.4
-12	92.22
-11	87.35
-10	82.75
-9	78.43
-8	74.35
-7	70.5
-6	66.88
-5	63.46
-4	60.23
-3	57.18
-2	54.31
-1	51.59
0	49.02
1	46.6
2	44.31
3	42.14
4	40.09
5	38.15
6	36.32
7	34.58
8	32.94
9	31.38
10	29.9
11	28.51
12	27.18
13	25.92
14	24.73
15	23.6
16	22.53
17	21.51
18	20.54
19	19.63

emperatur	e Sensor for Inc
Temp(°C)	Resistance(kΩ)
20	18.75
21	17.93
22	17.14
23	16.39
24	15.68
25	15
26	14.36
27	13.74
28	13.16
29	12.6
30	12.07
31	11.57
32	11.09
33	10.63
34	10.2
35	9.779
36	9.382
37	9.003
38	8.642
39	8.297
40	7.967
41	7.653
42	7.352
43	7.065
44	6.791
45	6.529
46	6.278
47	6.038
48	5.809
49	5.589
50	5.379
51	5.197
52	4.986
53	4.802
54	4.625
55	4.456
56	4.294
57	4.139
58	3.99

59 3.848 60 3.711 61 3.579 62 3.454 63 3.333 64 3.217 65 3.105 66 2.998 67 2.896 68 2.797 69 2.702 70 2.611 71 2.523 72 2.439 73 2.358 74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 <	Temp(°C)	Resistance(kΩ)
61 3.579 62 3.454 63 3.333 64 3.217 65 3.105 66 2.998 67 2.896 68 2.797 69 2.702 70 2.611 71 2.523 72 2.439 73 2.358 74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136 <td>59</td> <td>3.848</td>	59	3.848
62 3.454 63 3.333 64 3.217 65 3.105 66 2.998 67 2.896 68 2.797 69 2.702 70 2.611 71 2.523 72 2.439 73 2.358 74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136 <td>60</td> <td>3.711</td>	60	3.711
63 3.333 64 3.217 65 3.105 66 2.998 67 2.896 68 2.797 69 2.702 70 2.611 71 2.523 72 2.439 73 2.358 74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	61	3.579
64 3.217 65 3.105 66 2.998 67 2.896 68 2.797 69 2.702 70 2.611 71 2.523 72 2.439 73 2.358 74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	62	3.454
65 3.105 66 2.998 67 2.896 68 2.797 69 2.702 70 2.611 71 2.523 72 2.439 73 2.358 74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	63	3.333
66 2.998 67 2.896 68 2.797 69 2.702 70 2.611 71 2.523 72 2.439 73 2.358 74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	64	3.217
67 2.896 68 2.797 69 2.702 70 2.611 71 2.523 72 2.439 73 2.358 74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	65	3.105
68 2.797 69 2.702 70 2.611 71 2.523 72 2.439 73 2.358 74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	66	2.998
69 2.702 70 2.611 71 2.523 72 2.439 73 2.358 74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	67	2.896
70 2.611 71 2.523 72 2.439 73 2.358 74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	68	2.797
71 2.523 72 2.439 73 2.358 74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	69	2.702
72 2.439 73 2.358 74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	70	2.611
73 2.358 74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	71	2.523
74 2.28 75 2.206 76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	72	2.439
75	73	2.358
76 2.133 77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	74	2.28
77 2.064 78 1.997 79 1.933 80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171	75	2.206
78	76	2.133
79	77	2.064
80 1.871 81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	78	1.997
81 1.811 82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	79	1.933
82 1.754 83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	80	1.871
83 1.699 84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	81	1.811
84 1.645 85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	82	1.754
85 1.594 86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	83	1.699
86 1.544 87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	84	1.645
87 1.497 88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	85	1.594
88 1.451 89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	86	1.544
89 1.408 90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	87	1.497
90 1.363 91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	88	1.451
91 1.322 92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	89	1.408
92 1.282 93 1.244 94 1.207 95 1.171 96 1.136	90	1.363
93 1.244 94 1.207 95 1.171 96 1.136	91	1.322
94 1.207 95 1.171 96 1.136	92	1.282
95 1.171 96 1.136	93	1.244
96 1.136	94	1.207
	95	1.171
97 1.103	96	1.136
	97	1.103

Temp(°C)	Resistance(kΩ)
98	1.071
99	1.039
100	1.009
101	0.98
102	0.952
103	0.925
104	0.898
105	0.873
106	0.848
107	0.825
108	0.802
109	0.779
110	0.758
111	0.737
112	0.717
113	0.697
114	0.678
115	0.66
116	0.642
117	0.625
118	0.608
119	0.592
120	0.577
121	0.561
122	0.547
123	0.532
124	0.519
125	0.505
126	0.492
127	0.48
128	0.467
129	0.456
130	0.444
131	0.433
132	0.422
133	0.412
134	0.401
135	0.391
136	0.382

Resistance Table of Tube Temperature Sensors for Indoor and Outdoor (20K)

Temp(°C)	Resistance(kΩ)
-19	181.4
-18	171.4
-17	162.1
-16	153.3
-15	145
-14	137.2
-13	129.9
-12	123
-11	116.5
-10	110.3
-9	104.6
-8	99.13
-7	94
-6	89.17
-5	84.61
-4	80.31
-3	76.24
-2	72.41
-1	68.79
0	65.37
1	62.13
2	59.08
3	56.19
4	53.46
5	50.87
6	48.42
7	46.11
8	43.92
9	41.84
10	39.87
11	38.01
12	36.24
13	34.57
14	32.98
15	31.47
16	30.04
17	28.68
18	27.39
19	26.17

rature Sens	ors for Indoor and
Temp(°C)	Resistance(kΩ)
20	25.01
21	23.9
22	22.85
23	21.85
24	20.9
25	20
26	19.14
27	18.13
28	17.55
29	16.8
30	16.1
31	15.43
32	14.79
33	14.18
34	13.59
35	13.04
36	12.51
37	12
38	11.52
39	11.06
40	10.62
41	10.2
42	9.803
43	9.42
44	9.054
45	8.705
46	8.37
47	8.051
48	7.745
49	7.453
50	7.173
51	6.905
52	6.648
53	6.403
54	6.167
55	5.942
56	5.726
57	5.519
58	5.32

Temp(°C)	Resistance(kΩ)
59	5.13
60	4.948
61	4.773
62	4.605
63	4.443
64	4.289
65	4.14
66	3.998
67	3.861
68	3.729
69	3.603
70	3.481
71	3.364
72	3.252
73	3.144
74	3.04
75	2.94
76	2.844
77	2.752
78	2.663
79	2.577
80	2.495
81	2.415
82	2.339
83	2.265
84	2.194
85	2.125
86	2.059
87	1.996
88	1.934
89	1.875
90	1.818
91	1.736
92	1.71
93	1.658
94	1.609
95	1.561
96	1.515
97	1.47

Temp(°C)	Resistance(kΩ)
98	1.427
99	1.386
100	1.346
101	1.307
102	1.269
103	1.233
104	1.198
105	1.164
106	1.131
107	1.099
108	1.069
109	1.039
110	1.01
111	0.983
112	0.956
113	0.93
114	0.904
115	0.88
116	0.856
117	0.833
118	0.811
119	0.77
120	0.769
121	0.746
122	0.729
123	0.71
124	0.692
125	0.674
126	0.658
127	0.64
128	0.623
129	0.607
130	0.592
131	0.577
132	0.563
133	0.549
134	0.535
135	0.521
136	0.509

Resistance Table of Discharge Temperature Sensor for Outdoor(50K)

Resistance	Table of Discharg
Temp(°C)	Resistance(kΩ)
-29	853.5
-28	799.8
-27	750
-26	703.8
-25	660.8
-24	620.8
-23	580.6
-22	548.9
-21	516.6
-20	486.5
-19	458.3
-18	432
-17	407.4
-16	384.5
-15	362.9
-14	342.8
-13	323.9
-12	306.2
-11	289.6
-10	274
-9	259.3
-8	245.6
-7	232.6
-6	220.5
-5	209
-4	198.3
-3	199.1
-2	178.5
-1	169.5
0	161
1	153
2	145.4
3	138.3
4	131.5
5	125.1
6	119.1
7	113.4
8	108
9	102.8

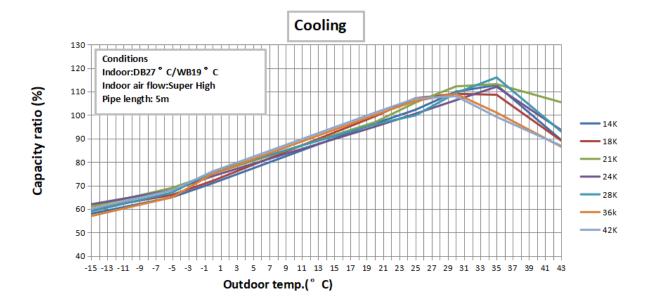
mperature S	ensor for Outdoo
Temp(°C)	Resistance(kΩ)
10	98
11	93.42
12	89.07
13	84.95
14	81.05
15	77.35
16	73.83
17	70.5
18	67.34
19	64.33
20	61.48
21	58.77
22	56.19
23	53.74
24	51.41
25	49.19
26	47.08
27	45.07
28	43.16
29	41.34
30	39.61
31	37.96
32	36.38
33	34.88
34	33.45
35	32.09
36	30.79
37	29.54
38	28.36
39	27.23
40	26.15
41	25.11
42	24.13
43	23.19
44	22.29
45	21.43
46	20.6
47	19.81
48	19.06

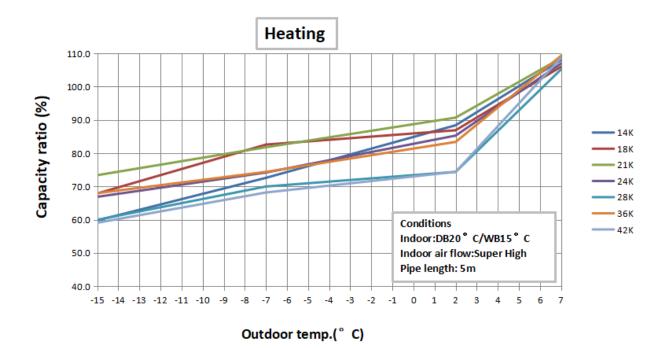
ouk)	
Temp(°C)	Resistance(kΩ)
49	18.34
50	17.65
51	16.99
52	16.36
53	15.75
54	15.17
55	14.62
56	14.09
57	13.58
58	13.09
59	12.62
60	12.17
61	11.74
62	11.32
63	10.93
64	10.54
65	10.18
66	9.83
67	9.49
68	9.17
69	8.85
70	8.56
71	8.27
72	7.99
73	7.73
74	7.47
75	7.22
76	7.00
77	6.76
78	6.54
79	6.33
80	6.13
81	5.93
82	5.75
83	5.57
84	5.39
85	5.22
86	5.06
87	4.90

Temp(°C)	Resistance(kΩ)
88	4.75
89	4.61
90	4.47
91	4.33
92	4.20
93	4.08
94	3.96
95	3.84
96	3.73
97	3.62
98	3.51
99	3.41
100	3.32
101	3.22
102	3.13
103	3.04
104	2.96
105	2.87
106	2.79
107	2.72
108	2.64
109	2.57
110	2.50
111	2.43
112	2.37
113	2.30
114	2.24
115	2.18
116	2.12
117	2.07
118	2.02
119	1.96
120	1.91
121	1.86
122	1.82
123	1.77
124	1.73
125	1.68
126	1.64



CAPACITY CURVES ARGO MULTISPLIT





REGULATION (EU) No. 517/2014 - F-GAS

The unit contains R32, a fluorinated greenhouse gas with global warming potential (GWP) = 675.

Do not release R32 into the atmosphere.

ARGO QUADRI 36 DCI R32 - Kg. 2,40 = Tonn CO₂ equiv. 1,62

ARGO PENTA 42 DCI R32 - Kg. 2,40 = Tonn CO2 equiv. 1,62



