

Multi VRF Systems DC Inverter

Installation Manual

MODEL:

AEG04MMIH

AEG05MMIH

AEG06MMIH

Thank you for choosing an Argoclima VRF system. Please read this manual carefully before using the unit and retain it for future reference.

To Users

Thank you for selecting Argoclima product. Please read this instruction manual carefully before installing and using the product, so as to master and correctly use the product. In order to guide you to correctly install and use our product and achieve expected operating effect, we hereby instruct as below:

- (1) This appliance can be used by children aged from 8 years and above and persons with reduced physical sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- (2) In order to ensure reliability of product, the product may consume some power under stand-by status for maintaining normal communication of system and preheating refrigerant and lubricant. If the product is not to be used for long, cut off the power supply; please energize and preheat the unit in advance before reusing it.
- (3) Please properly select the model according to actual using environment, otherwise it may impact the using convenience.
- (4) This product has gone through strict inspection and operational test before leaving the factory. In order to avoid damage due to improper disassembly and inspection, which may impact the normal operation of unit, please do not disassemble the unit by yourself. You can contact with the special maintenance center of our company if necessary.
- (5) For personal injury or property loss and damage caused by improper operation such as improper installation and debugging, unnecessary maintenance, violation of related national laws and rules and industrial standard, and violation of this instruction manual, etc., we will bear no liability.
- (6) When the product is faulted and cannot be operated, please contact with our maintenance center as soon as possible by providing the following information.
 - 1) Contents of nameplate of product (model, cooling/heating capacity, product No., ex-factory date).
 - 2) Malfunction status (specify the situations before and after the error occurs).
- (7) All the illustrations and information in the instruction manual are only for reference. In order to make the product better, we will continuously conduct improvement and innovation. We have the right to make necessary revision to the product from time to time due to the reason of sales or production, and reserve the right to revise the contents without further notice.
- (8) The final right to interpret for this instruction manual belongs to Argoclima.

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1 Safety Notices (Please be sure to abide)



Warning: If not abide strictly, it may cause severe damage to the unit or the people.



Note: If not abide strictly, it may cause slight or medium damage to the unit or the people.



This sign indicates that the operation must be prohibited. Improper operation may cause severe damage or death to people.



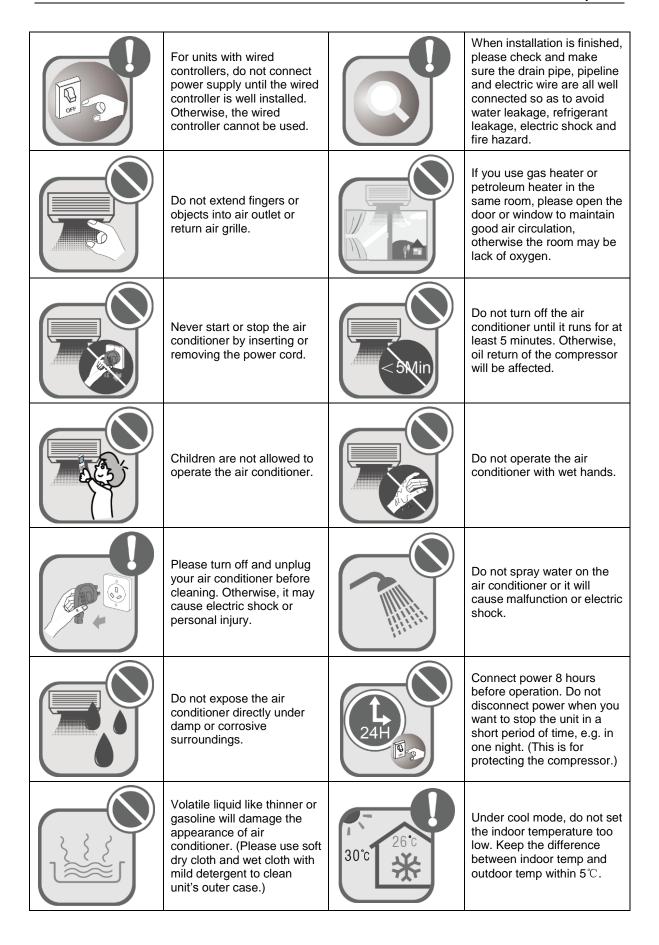
This sign indicates that the items must be observed. Improper operation may cause damage to people or property.



WARNING!

This product can't be installed at corrosive, inflammable or explosive environment or the place with special requirements, such as kitchen. Otherwise, it will affect the normal operation or shorten the service life of the unit, or even cause fire hazard or serious injury. As for above special places, please adopt special air conditioner with anti-corrosive or anti-explosion function.

	Please install the unit according to instructions in this manual. Read this manual carefully before starting up or checking the machine.	Installation should be performed by distributor or qualified technicians. Do not install the product by yourself. Improper installation may result in water leakage, electric shock or fire hazard.
	Before installation, please check the power cord if it complies with the power supply requirement on the nameplate. Make sure the power supply is safe.	This air conditioner must be properly grounded through the receptacle to avoid electric shock. The ground wire shouldn't be connected with gas pipe, water pipe, lightning arrester or telephone line.
Exclusive accessory	When installing, specialized parts and accessories must be used. Otherwise, it may result in water leakage, electric shock or fire hazard.	R410A refrigerant can produce poisonous gas once it meets fire, so please ventilate the room immediately if refrigerant leaks out during installation.
exclusive	Diameter of power cord must be large enough. Damaged power cord or connecting wire must be replaced by specialized electric cable.	After the power cord is connected, please install the cover of electric box to avoid danger
N ₂	Nitrogen must be charged according to technical requirements.	Short circuit is forbidden. Do not cancel the pressure switch, otherwise unit may be damaged.





If abnormal condition occurs (e.g. unpleasant smell), please turn off the unit at once and disconnect power supply. Then contact Argoclima authorized service center. If the air conditioner continues to operate despite of abnormal condition, it may be damaged and cause electric shock or fire hazard.)



Do not repair the air conditioner by yourself. Improper repair will cause electric shock or fire hazard. Please contact Argoclima authorized service center and ask professional technicians to repair it.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Install units according to national wiring codes.

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

An all-pole disconnection device which has at least 3mm clearances in all poles, and disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

Argoclima will not assume responsibility for any personal injury or property loss caused by improper installation, improper debugging, unnecessary repair or not following the instructions of this manual.

2 Product Introduction

Argoclima Multi VRF System adopts inverter compressor technology. By changing the displacement of compressor, stepless capacity regulation within range of 10% ~100% can be realized. Various product lineups are provided with capacity range from 8kW to 16kW, which can be widely used in residential, commercial and working area and especially applicable to places with big load change. Argoclima residential air conditioner is absolutely your best choice.

2.1 Names of Main Parts

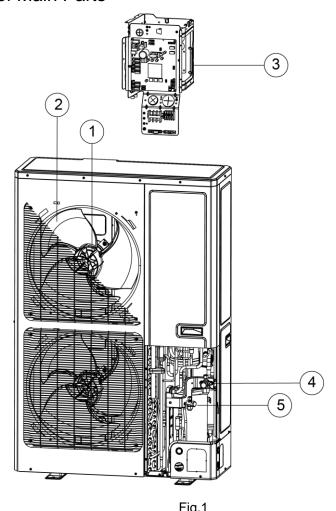


Fig. i							
No.	1	2	3	4	(5)		
Name	Motor	Fan blade	Electric box assembly	Gas pipe valve	Liquid pipe valve		

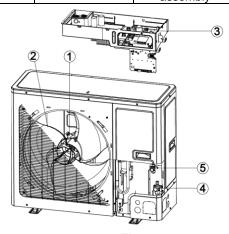


Fig.2

No.	1	2	3	4	(3)
Name	Motor	Fan blade	Electric box assembly	Gas pipe valve	Liquid pipe valve

2.2 Combinations of Indoor and Outdoor Units

- (1) See below the number of indoor units that can be connected to the outdoor unit.
- (2) The total capacity of indoor units should be within 50%~135% of that of the outdoor unit.

Model	Max sets of connectable IDUs		
AEG04MMIH	7		
AEG05MMIH	8		
AEG06MMIH	9		

(3) Can be connected to various indoor units. When any one of the indoor units receives operating command, outdoor unit will start operation as per required capacity. When all indoor units stop, outdoor unit will be shut off.

2.3 Operating Range

Cooling	Outdoor temperature: -5 °C ~52 °C
Heating	Outdoor temperature: -20°C ~27°C

3 Preparation before Installation

Note: Graphics here are only for reference. Please refer to actual products. Unspecified dimensions are

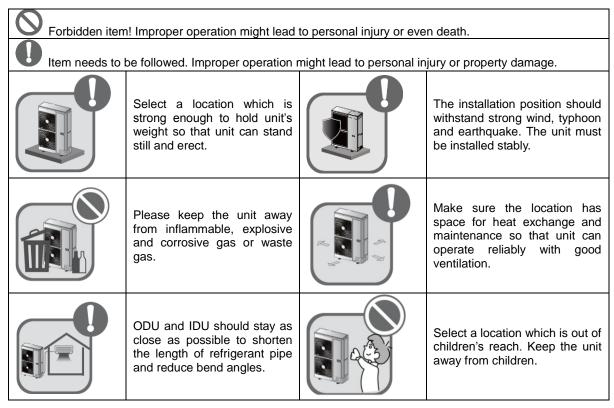
3.1 Standard Parts

Please use the supplied standard parts as required.

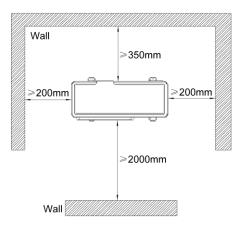
Parts for Outdoor Unit				
No.	Name	Appearance	Qty	Remark
1	User Manual	GOREE K.p	1	
2	Wiring (match with resistance)		1	Must be connected to the last IDU of communication connection
3	Corrugated pipe		1	
4	Chassis gluey plug		1	
5	Drainage joint		1	

Note: Some accessories are not available for some models. Please refer to the present product for details.

3.2 Installation Site



If the ODU is totally surrounded by walls, please refer to the following figures for space dimension:



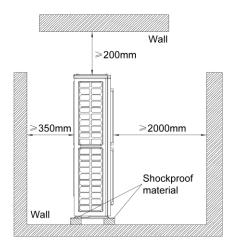


Fig. 3

3.3 Piping Work Requirements

Refer to the table below for piping work requirements:

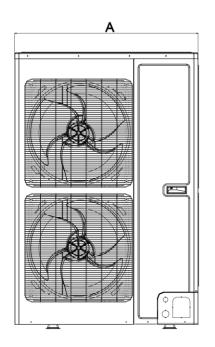
R410A Refrigerant System				
Outer diameter (mm/inch)	Wall thickness(mm)			
Ф6.35(1/4)	≥0.8			
Ф9.52(3/8)	≥0.8			
Ф12.70(1/2)	≥0.8			
Ф15.9(5/8)	≥1.0			
Ф19.05(3/4)	≥1.0			

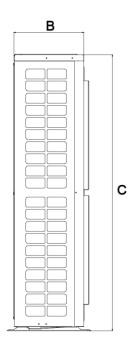
4 Installation Instruction

Note: Graphics here are only for reference. Please refer to actual products. Unspecified dimensions are all in mm.

4.1 Dimension of Outdoor Unit and Mounting Hole

Unit Outline and Installation Dimension (mm)





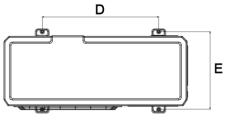


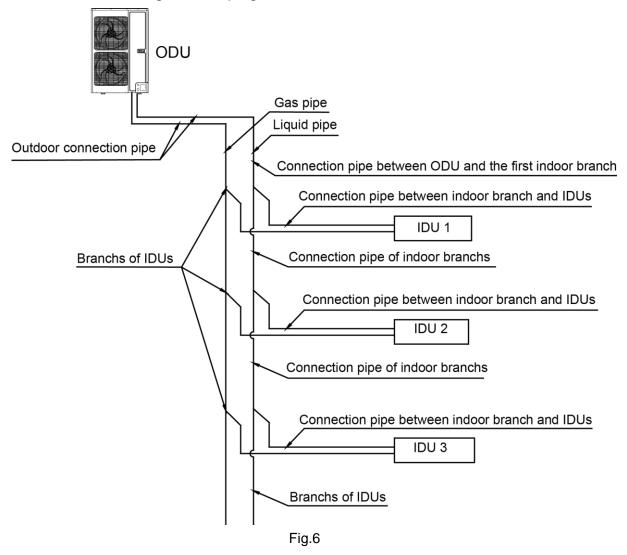
Fig.4

Unit: mm

Model	Α	В	С	D	Е
AEG04MMIH AEG05MMIH AEG06MMIH	900	340	1345	572	378

4.2 Connection Pipe

4.2.1 Schematic Diagram of Piping Connection



4.2.2 Allowable Length and Height Difference of Connection Pipe

Y type branch joint is adopted to connect indoor and outdoor units. Connecting method is shown in the figure below:

Note: Equivalent length of one Y-type branch is 0.5m.

Fig.8 Allowable Length and Height Difference of Connection Pipe Piping parameters of AEG04MMIH - AEG05MMIH - AEG06MMIH

		Allowable value	Fitting pipe
Total length (actual length)	of fitting pipe	300m	L1+L2+L3+a+b+c+d
Length of farthest fitting pipe (m)	Actual length	120m	l 1+l 2+l 3+d
Length of farthest fitting pipe (iii)	Equivalent length	150m	2112212013
From the 1st branch to the fart	hest indoor pipe	40m	L2+L3+d
Height difference between ODU	ODU at upper side	50m	
and IDU	ODU at lower side	40m	
Height difference between IDUs		15m	

4.2.3 Dimension of Pipe (Main Pipe) from ODU to the 1st Indoor Branch

Dimension of pipe from ODU to the 1st indoor branch will be determined by the dimension of outdoor connection pipe.

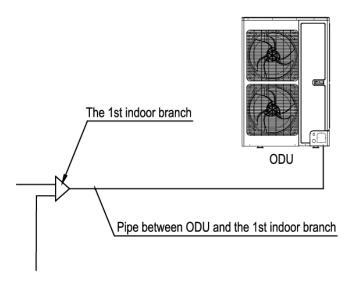


Fig.8 Dimension of outdoor connection pipe

Basic module	Pipe dimension		
Dasic Module	Gas pipe (mm)	Liquid pipe (mm)	
AEG04MMIH	Ф 15.9	Ф 9.52	
AEG05MMIH	Ф 15.9	Ф 9.52	
AEG06MMIH	Ф 19.05	Ф 9.52	

4.2.4 Selection of Indoor Branches

Select indoor branches according to the total capacity of downstream indoor units. If the capacity exceeds that of the outdoor unit, capacity of outdoor unit prevails.

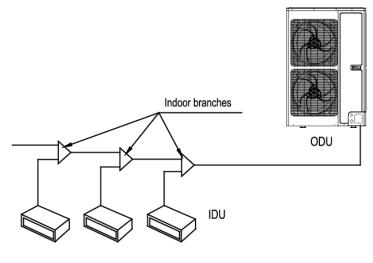
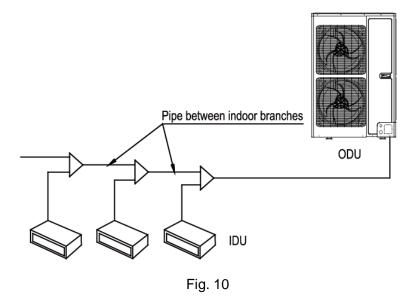


Fig.9

R410A Refrigerant system	Total capacity of downstream indoor units X (kW)	Model
	X<20	JOINT01
	20≤X≤30	JOINT01B
Y type branch	30 <x≤70< td=""><td>JOINT02</td></x≤70<>	JOINT02
	70 <x≤135< td=""><td>JOINT03</td></x≤135<>	JOINT03
	135 <x< td=""><td>JOINT04</td></x<>	JOINT04

4.2.5 Dimension of Pipe between Indoor Branches

Select pipe between indoor branches according to the capacity of downstream indoor units; if the capacity exceeds that of the outdoor unit, capacity of outdoor unit prevails.



Total capacity of downstream indoor units C (kW)	Gas pipe (mm)	Liquid pipe (mm)
C ≤5.6	Ф12.7	Ф6.35
5.6 <c≤14.2< td=""><td>Ф15.9</td><td>Ф9.52</td></c≤14.2<>	Ф15.9	Ф9.52
14.2 <c≤22.4< td=""><td>Ф19.05</td><td>Ф9.52</td></c≤22.4<>	Ф19.05	Ф9.52

4.2.6 Dimension of Pipe between Indoor Branch and IDU

Dimension of pipe between indoor branch and IDU should be consistent with the dimension of indoor pipe.

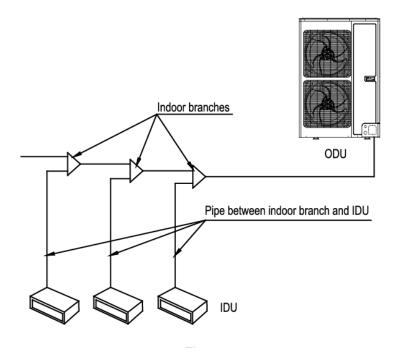


Fig. 11

Rated capacity of IDU C(kW)	Gas pipe (mm)	Liquid pipe (mm)
C≤2.8	Ф9.52	Ф6.35
2.8 <c≤5.0< td=""><td>Ф12.7</td><td>Ф6.35</td></c≤5.0<>	Ф12.7	Ф6.35
5.0 <c≤14.0< td=""><td>Ф15.9</td><td>Ф9.52</td></c≤14.0<>	Ф15.9	Ф9.52
14.0 <c≤16.0< td=""><td>Ф19.05</td><td>Ф9.52</td></c≤16.0<>	Ф19.05	Ф9.52
16.0 <c≤28.0< td=""><td>Ф22.2</td><td>Ф9.52</td></c≤28.0<>	Ф22.2	Ф9.52

Note: If the distance between IDU and its nearest branch is over 10m, then the liquid pipe of IDU (rated capacity ≤5.0kW) shall be enlarged.

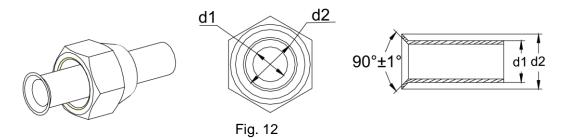
4.3 Installation of Connection Pipe

4.3.1 Precautions for the Installation of Connection Pipe

- (1) Conform to the following principles during pipe connection: Connection pipe should be as short as possible, so is the height difference between indoor and outdoor units. Keep the number of bends as little as possible. Radius of curvature should be as large as possible.
- (2) Weld the connection pipe between indoor and outdoor units. Please strictly follow the requirements for welding process. Rosin joint or pin hole is not allowed.
- (3) Radius of bending parts should be over 200mm. Note that pipes cannot be repeatedly bent or stretched; otherwise the material will get harder. Do not bend or stretch the pipe for more than 3 times at the same position.

4.3.2 Flaring Process

- (1) Use pipe cutter to cut the connection pipe in case it is unshaped.
- (2) Keep the pipe downward in case cutting scraps get into the pipe. Clear away the burrs after cutting.
- (3) Remove the flared nut connecting indoor connection pipe and outdoor unit. Then use flaring tool to fix the flared nut into the pipe (as shown in Fig.12).
- (4) Check if the flared part is flaring evenly and if there is any crack.



4.3.3 Pipe Bending

(1) Reshape the pipe by hand. Be careful not to damage the pipe.

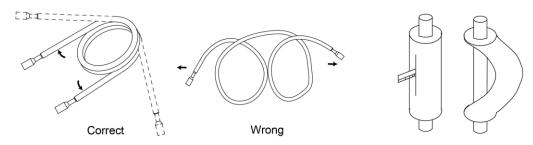


Fig. 13

Fig. 14

- (2) Do not bend the pipe over 90°.
- (3) If pipe is repeatedly bent or stretched, it will get hard and difficult to bend and stretch again. Therefore, do not bend or stretch the bend for over 3 times.
- (4) In case that direct bending will open cracks to the pipe, first use sharp cutter to cut the insulating layer, as shown in Fig.14. Do not bend the pipe until it is exposed. When bending is done, wrap the pipe with insulating layer and then secure it with adhesive tape.

4.3.4 Indoor Pipe Connection

- (1) Remove pipe cover and pipe plug.
- (2) Direct the flared part of copper pipe to the center of screwed joint. Twist on the flared nut tightly by hand, as in Fig.15. (Make sure indoor pipe is correctly connected. Improper location of the center will prevent flared nut from being securely twisted. Thread of nut will get damaged if the flared nut is twisted forcibly.)
- (3) Use torque wrench to twist on the flared nut tightly until the wrench gives out a click sound. (Hold the handle of wrench and make it at right angle to the pipe. as in Fig.16)
- (4) Use sponge to wrap the un-insulated connection pipe and joint. Then tie the sponge tightly with plastic tape.
- (5) Connection pipe should be supported by a bearer rather than the unit.
- (6) The bending angle of piping should not be too small; otherwise the piping might have cracks. Please use a pipe bender to bend the pipe.
- (7) When connecting IDU with connection pipe, do not pull the big and small joints of IDU with force in case the capillary tube or other tubes have cracks and cause leakage.

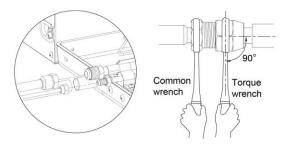


Fig. 15

Fig. 16

Pipe diameter	Tightening torque
φ 6.35mm	15∼30 (N·m)
φ 9.52mm	35∼40 (N·m)
ф12.7mm	45∼50 (N·m)
ф15.9mm	60∼65 (N·m)

4.3.5 Outdoor Pipe Connection

Twist the flared nut on the connection pipe of outdoor valves. Twisting method is the same as for indoor pipe connection.

During engineering installation, the connection pipe inside the unit must be wrapped by insulation sleeve.

Below is the piping diagram of AEG05MMIH, AEG05MMIH, AEG06MMIH. According to customer requirement or space limit, outlet pipe can be installed from the front, right or rear side.

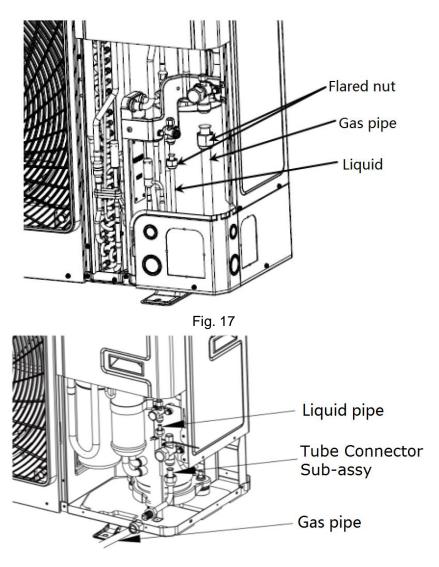


Fig.18

4.3.6 Installation of Y-type Branch

(1) Y-type Branch

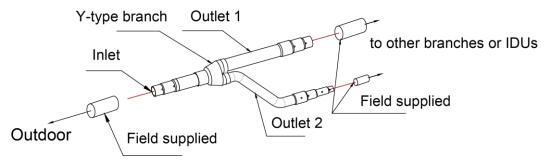


Fig. 19

- (2) Y-type branch has several pipe sections with different dimension, which facilitates to match with various copper pipes. Use pipe cutter to cut in the middle of the pipe section that is of proper dimension and remove burrs as well. See Fig.20.
- (3) Y-type branch must be installed vertically or horizontally.

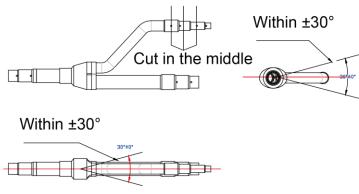


Fig. 20

(4) Branch shall be isolated by insulating material that can bear 120° or even higher temperature. The attached foam of branch cannot be taken as insulating material.

4.3.7 Thermal Insulation for Pipeline

- (1) For multi VRF system, every copper pipe should be labeled so as to avoid misconnection.
- (2) At the branch inlet, leave at least 500mm straight pipe section.
- (3) Thermal insulation for pipeline
 - To avoid condensate or water leakage on the connection pipe, the gas pipe and liquid pipe must be wrapped with thermal insulating material and adhesive tape for insulation from the air.
- 2) Thermal insulating material shall be able bear the pipe temperature. For heat pump unit, liquid pipe should bear 70°C or above and gas pipe should bear 120°C or above. For cooling only unit, both liquid pipe and gas pipe should bear 70°C or above.
- 3) Example: Polyethylene foam (bear 120° C or above); foaming polyethylene (bear 100° C or above)

4) Joints of indoor and outdoor unit should be wrapped with insulating material and leave no gap between pipe and wall. See Fig.21.

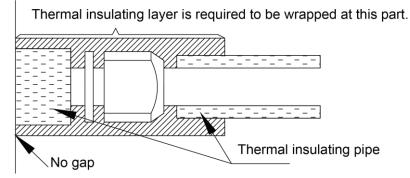


Fig. 21

- 5) Thermal insulating material of branches should be the same as that of the pipeline. The attached foam of branches cannot be taken as insulating material.
- 6) When wrapping the tape, the later circle should cover half of the former one. Don't wrap the rape too tight, otherwise the insulation effect will be weakened.
- 7) After wrapping the pipe, apply sealing material to completely seal the hole on the wall.

4.3.8 Support and Protection of Pipeline

- (1) Support should be made for hanging connection pipe. Distance between each support cannot be over 1m.
- (2) Protection against accidental damage should be made for outdoor pipeline. When pipeline exceeds 1m, a pinch board should be added for protection.

4.4 Disassembly of Compressor Feet

In order to prevent unit from damage during transportation, 2 metal pieces are fitted to outdoor unit's compressor feet before unit leaves factory. See fig.22.

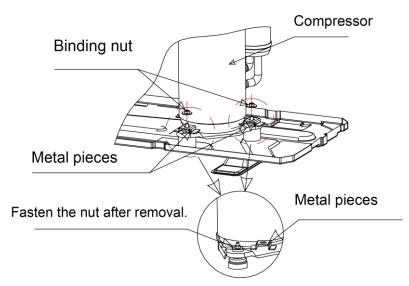


Fig. 22

When installing the unit, metal pieces for transportation must be removed. Then fasten the binding nuts again and wrap back soundproofing cotton.

Note: If unit runs with metal pieces fitting on, compressor will shake abnormally and unit's operating life will be shortened.

4.5 Vacuum Pumping, Refrigerant Adding

4.5.1 Vacuum Pumping

- (1) Outdoor unit has been charged with refrigerant before delivery. Field-installed connection pipe needs to be charged with additional refrigerant.
- (2) Confirm whether outdoor liquid and gas valves are closed.
- (3) Use vacuum pump to withdraw the air inside indoor unit and connection pipe from the outdoor valve, as shown below.

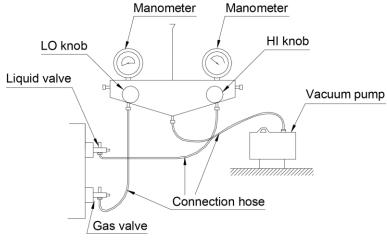


Fig. 23

4.5.2 Refrigerant Adding

(1) Refrigerant quantity of outdoor unit before delivery:

Model	AEG08MMIH	AEG05MMIH	AEG06MMIH
Refrigerant Qty (kg)	3.3	3.3	3.3



- ①The refrigerant amount charged before delivery doesn't include the amount that needs to be added to indoor units and the connection pipeline.
- ②Length of connection pipe is decided on site. Therefore the amount of additional refrigerant shall be decided on site according to the dimension and length of field-installed liquid pipe.
- ③ Record the amount of additional refrigerant for convenience of after-sales service.

(2) Calculation of the amount of additional refrigerant

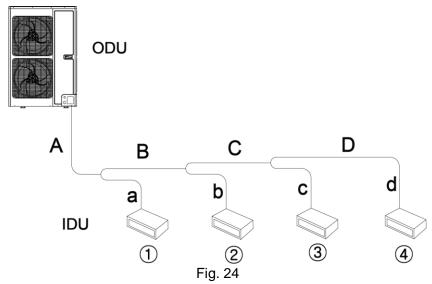
Calculation method of the quantity of additional refrigerant (based on liquid pipe)

Quantity of additional refrigerant = ∑length of liquid pipe X quantity of additional refrigerant per meter+ (quantity of indoor unit -2) ×0.3

Quantity of additional refrigerant per meter for liquid pipe (kg/m)							
Ф22.2 Ф19.05 Ф15.9 Ф12.7 Ф9.52 Ф6.35							
0.35 0.25 0.17 0.11 0.054 0.022							

First confirm that there is no leakage from the system. When compressor is not working, charge additional R410A with specific amount to the unit through the filling opening of the liquid pipe valve of the outdoor unit. If required amount cannot be quickly filled due to pressure increase of the pipe, then set the unit in cooling startup and fill refrigerant from the low pressure check valve of the outdoor unit.

(3) Calculation example



IDU

100				
No.	IDU ①	IDU ②	IDU ③	IDU ④
Model	Duct type SDG72MH	Duct type SDG28MH	Duct type SDG36MH	Duct type SDG25MH

Liquid pipe:

No.	А	В	С	D
Pipe size	Ф9.52	Ф9.52	Ф9.52	Ф6.35
Length	10m	5m	5m	5m
No.	а	b	С	d
Pipe size	Ф9.52	Ф6.35	Ф6.35	Ф6.35
Length	3m	3m	2m	1m

Total length of each liquid pipe

Ф9.52: A+B+C+a=10+5+5+3=23m

Ф6.35: D+b+c+d=5+3+2+1=11m

Quantity of indoor unit: 4 sets

Therefore, the minimum quantity of additional refrigerant = $(23\times0.054+11\times0.022)+(4-2)\times0.3=2.084$ kg

4.6 Electric Wiring

Connection of power cord and communication wire Separate power supply for IDU and

Three-phase power supply unit

(AEG04MMIH, AEG05MMIH, AEG06MMIH)

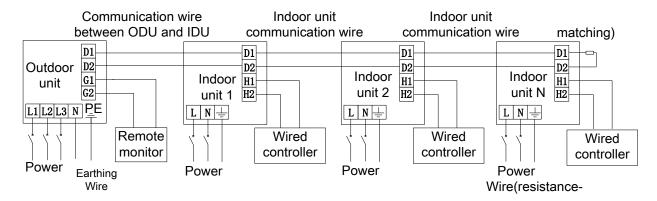


Fig.26 Connection of power cord and communication wire for IDU and $\ensuremath{\mathsf{ODU}}$

Selection of circuit breaker and power cord

Model	Power supply	Circuit breaker capacity (A)	Number of ground wire * Min sectional area (mm²)	Number of power cord * Min sectional area (mm²)
AEG04MMIH	220~240V 50Hz 208~230V 60Hz	32	1×4.0	2×4.0
AEG05MMIH	220~240V 50Hz 208~230V 60Hz	40	1×6.0	2×6.0
AEG06MMIH	220~240V 50Hz 208~230V 60Hz	40	1×6.0	2×6.0

Note:

- ① Selection of circuit breaker and power cord in the above table is based upon unit's maximum power (maximum current).
- ②Specification of power cord is based on the working condition where ambient temperature is 40 °C and multi-core copper cable (working temperature is 90 °C, e.g. power cable with YJV cross-linked copper, insulated PE and PVC sheath) is lying on the surface of slot. If working condition changes, please adjust the specification according to national standard.
- ③ Specification of circuit breaker is based on the working condition where ambient temperature of circuit breaker is 40℃. If working condition changes, please adjust the specification according to national standard.

4.6.1 Engineering wiring of power supply and communication cable

- (1) Please refer Fig. 28 for engineering wiring. If there is the hole for cable tie in wiring route, please fix the wire with cable tie. Connect the power cord and communication cable to the corresponding terminal board and grounding screw according to the wiring diagram.
- (2) Please be noted that engineering wiring cannot touch the pipe and appliance.
- (3) This figure is only applicable for engineering wiring reference of power supply and communication cable. If there are differences between the figure structure and actual unit, please refer to the actual unit.
- (4) For engineering wiring, please refer to the wiring diagram provided with the unit.

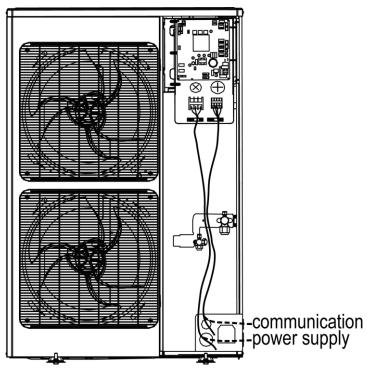


Fig. 28 Engineering Wiring View of AEG04MMIH, AEG05MMIH, AEG06MMIH

5 Check Items after Installation and Test Operation

5.1 Check Items after Installation

Check items	Possible conditions due to improper installation	Check
Each part of the unit is installed securely?	Unit may drop, shake or emit noise.	
Gas leakage test is taken or not?	Insufficient cooling (heating) capacity	
Unit gets proper thermal insulation or not?	There may be condensation and dripping.	
Drainage is smooth or not?	There may be condensation and dripping.	
Is the voltage in accordance with the rated voltage specified on the nameplate?	Unit may have malfunction or components may get damaged.	
is the electric wiring and pipe connection installed correctly?	Unit may have malfunction or components may get damaged.	
Unit is securely grounded or not?	Electrical leakage	
Power cord meets the required specification?	Unit may have malfunction or components may get damaged.	
Is the air inlet/outlet blocked?	Insufficient cooling (heating) capacity	
Length of refrigerant pipe and the charging amount of refrigerant are recorded or not?	The refrigerant charging amount is not accurate.	
Binding pieces on compressor feet are removed or not?	Compressor may get damaged.	

5.2 Test operation and debugging

Notice:

- ①After finishing the first installation or replacing the main board of outdoor unit, it is necessary to perform test operation and debugging. Otherwise, unit won't be able to work.
- ②Test operation and debugging must be performed by professional technicians or under the guidance of professional technicians.

5.2.1 Prepare the test operation and debugging

- (1) Do not connect power until all installation work is finished.
- (2) All control circuits and wires are correctly and securely connected.
- (3) Check whether the fixing loops for compressor foots are removed.
- (4) All small pieces, especially metal chips, thread ends and forceps holder, must be removed from the unit.
- (5) Check whether unit's appearance and pipeline system has been damaged during transportation.
- (6) Calculate the quantity of refrigerant that needs to be added according to the pipe length. Pre-charge the refrigerant. In case that the required charging quantity is not reached while refrigerant can't be added, record the quantity of refrigerant that still needs to add and complement the quantity during test operation. For details of adding refrigerant during test operation, see below.
- (7) After refrigerant is added, make sure valves of outdoor unit are completely open.
- (8) For the convenience of troubleshooting during debugging, unit shall be connected to a PC with applicable debugging software. Make sure unit's real-time data can be checked through this computer. The installation and connection of debugging software can be found in the Service Manual.
- (9) Before test operation, make sure unit is power on and compressor has been preheated for more than 8 hours. Touch the unit to check whether it's normally preheated. If yes, start test operation. Otherwise, compressor might be damaged.

5.2.2 Test Operation and Debugging

Description of test operation procedures and main board display of ODU

Description of test operation procedures and main board display of ODU Description of each stage of debugging progress								
 			_				ogress	
		ging code		ess code	Status code			
Progress	LE Code	Display	Li Code	Display	Li Code	ED3 Display	Code meaning and operation method	
	Code	status		status	Code	status		
	00	ON	OF/A C/AH	ON	A0	ON	System is not debugged.	
01_ Set master unit	db	On	01	On	ОС	On	Hold main board's SW7 button for 5s to start debugging. Main board will display as said in the left. 2s later, next step starts.	
	db	On	02	On	Ad	Blink	System is allocating addresses. 10s later, display as below:	
02_ Allocate addresses	db	On	02	On	L7	Blink	No master indoor unit. Display will be on for 1min, during which master IDU can be set manually. If not, system will set the unit with minimum IP address as the master IDU.	
	db	On	02	On	ОС	On	Allocation is finished. 2s later, next step starts.	
03_ Confirm	db	On	03	On	01	Blink	System is confirming. 1s later, next step starts.	
the quantity of ODU	db	On	03	On	OC	On	System finishes confirmation. 2s later, next step starts.	
04_ Confirm the quantity of IDU	db	On	04	On	01~8 0	Blink	LED3 displays the quantity of indoor unit. Confirm the number manually. If the number is not consistent the display one, cut off power of IDU and ODU and check whether communication wire of IDU is correctly connected. After the check, connect power and start debugging from progress 01. If the number is then correct, press main board's SW7 button to confirm. Then the display is as below:	
	db	On	04	On	ОС	On	System has confirmed the quantity. 2s later, next step starts.	

	Description of each stage of debugging progress								
	Debugging code Progress code Status code		is code						
	LE	ED1	D1 LED2 LED3		ED3	Code meaning and operation			
Progress	Code	Display status	Code	Display status	Code	Display status	method		
	db	On	05	On	C2	On	Communication between master ODU and driver has error. Check the communication connection of ODU's main board and drive board. When the error is eliminated, start next step. If power is off during troubleshooting, then restart debugging from progress 01 after power is on.		
05_ Detect ODU's internal communicati on and capacity	db	On	05	On	ОС	On	Communication of master ODU and driver is normal. Unit will display as in the left for 2s and detect the capacity ratio of IDU and ODU. If the ratio is within range, than next step will start 2s later. If the ratio is out of range, unit will display as below:		
ratio	db	On	05	On	СН	On	Rated capacity ratio of IDU is too high. Change the combination way of IDU and ODU to make the ratio within range. And restart debugging from progress 01.		
	db	On	05	On	CL	On	Rated capacity ratio of IDU is too low. Change the combination way of IDU and ODU to make the ratio within range. And restart debugging from progress 01.		
06_ Detect outdoor components	db	On	06	On	error code	On	Outdoor component's error. LED3 will display the related error code. After errors are eliminated, system will start next step automatically. If power is off during troubleshooting, then restart debugging from progress 01 after power is on.		
	db	On	06	On	ОС	On	System detects no error on outdoor component. 10s later, next step starts.		

Description of each stage of debugging progress								
	Debug	ging code	Progre	ess code	Statu	is code		
	LE	ED1	LE	ED2	LE	ED3	Code meaning and operation	
Progress	Code	Display status	Code	Display status	Code	Display status	method	
07_ Detect indoor components	db	On	07	On	XXXX / Error code	On	System detects error on indoor components. XXXX means the project code of IDU with error. 3s later, related error code will be showed. For instance, if no.1 IDU has d6 and d7 errors, then the LED3 digital tube will show circularly 00,01,d5,d6,07,92,d6,d7 every 2s. After errors are eliminated, system will start next step automatically. If power is off during troubleshooting, then restart debugging from progress 01 after power is on.	
	db	On	07	On	ОС	On	No error on components of IDU. 2s later, next step starts.	
08_ Confirm preheated compressor	db	On	08	On	UO	On	Preheat time for compressor is less than 8 hours. Display will be as in the left until the preheat time reaches 8 hours. Press main board's SW7 button to confirm manually that the preheat time has reached 8 hours. Then start next step. (Note: Compressor may get damaged if it is started without 8 hours of preheat time)	
	db	On	08	On	ОС	On	Compressor has been preheated for 8 hours. 2s later, next step starts.	
09_ Refrigerant judgments before startup	db	On	09	On	U4	On	System is lack of refrigerant and display will be as in the left. Please cut off power of IDU and ODU and check if there is leakage on pipeline. Solve the leakage problem and complement refrigerant into the unit. Then connect power and restart debugging from progress 01. (Note: Before re-charging refrigerant, unit must be power off in case system starts progress 10 automatically.)	
	db	On	09	On	ОС	On	Refrigerant is normal and unit will display as in the left for 2s. Then next step starts.	

	Description of each stage of debugging progress							
	Debugging code Progress			ess code	Statu	ıs code		
	LE	ED1	LED2		LE	ED3	Code meaning and operation	
Progress	Code	Display status	Code	Display status	Code	Display status	method	
	db	On	10	On	ON	On	Valves of ODU are being inspected. Compressor will start operation for 2min or so and then stop. The opening and closing status of outdoor valves are as below:	
10_ Status judgments of outdoor valves before startup	db	On	10	On	U6	On	Outdoor valves are not fully turned on. Press main board's SW6 button and display shows "db 09 OC". Then check if the gas and liquid valves of ODU are completely open. After confirmation, press the SW6 button again. Then compressor will start running for about 2min to inspect the status of valves.	
	db	On	10	On	ОС	On	Valves status is normal. Unit will display as in the left for 2s and then start next step.	
	db	On	12	On	AP	Blink	Ready for units to start debugging. Press main board's SW7 button to confirm startup of debugging. 2s later, main board will display as below:	
12_ Confirm debugging startup	db	On	12	On	AE	On	Startup is confirmed. After displaying for 2s, system will choose "15_Cooling debugging" or "16_Heating debugging" according to ambient temperature. If the project requests to add refrigerant but it is not complemented before debugging, then refrigerant can be added in this process through the L-VALVE.	
15_ Cooling	db	On	15	On	AC	On	Debugging for cooling mode. If no malfunction occurs for 20min when compressor is running, then system will start progress 17;	
debugging	db	On	15	On	Error code	On	Malfunction occurs when debugging for cooling mode. After all malfunctions are eliminated, system will start next step.	

	Description of each stage of debugging progress						
	Debug	ging code	Progre	Progress code		ıs code	
	LE	ED1	LI	ED2	LED3		Code meaning and operation
Progress	Code	Display status	Code	Display status	Code	Display status	method
16_ Heating	db	On	16	On	АН	On	Debugging for heating mode. If no malfunction occurs for 20min when compressor is running, then system will start progress 17;
debugging	db	On	16	On	Error code	On	Malfunction occurs when debugging for heating mode. After all malfunctions are eliminated, system will start next step.
17_ Debugging finished	00	On	AC/A H	On	OF	On	The entire unit has finished debugging and under standby-by condition.

5.2.3 Appendix: Reference of normal operation parameters

No		Debug item	Parameter name	Unit	Reference
1		-	Outdoor temperature	$^{\circ}$ C	
2			Compressor discharge temp	$^{\circ}$ C	 When compressor starts, discharge temp in cool mode is within 70~105°C and at least 10°C higher than the high pressure saturation temp; As for temp in heat mode, it is within 65~90°C and at least 10°C higher than the high pressure saturation temp.
3			Defrosting temp	$^{\circ}$ C	 In cool mode, defrosting temp is 4~10 °C lower than system's high pressure value; In heat mode, defrosting temp is about 2 °C different from system's low pressure value.
4	S	ODU parameters	System high pressure	°C	 In cool mode, the normal high pressure value is within 20 °C ~55 °C. According to the change of ambient temp and system's operating capacity, the high pressure value will be 10 °C ~30 °C higher than ambient temp. The higher ambient temp is, the smaller temp difference is. If ambient temp is 25~35 °C in cool mode, system's high pressure value will be within 44~53 °C. In heat mode, if ambient temp is above -5 °C, system's high pressure value is within 40~52 °C. If ambient temp is low and many IDUs are turned on, the high pressure will be lower.
5	System parameters		System low pressure	$^{\circ}\! \mathbb{C}$	 When ambient temp in cool mode is 25~35°C, the low pressure value is 0~8°C. When ambient temp in heat mode is above -5°C, the low pressure value is -15~8°C.
6	Syster		Opening angle of thermal EXV	PL S	 In cool mode, the thermal electronic expansion valve remains 480PLS. In heat mode, the adjustable opening angle of EXV is 40~480PLS.
7			Compressor's operating freq	HZ	Changes in 10Hz~80Hz.
8			Compressor's operating current	Α	When compressor works normally, the current is no more than 18.4A.
9			Compressor's IPM temp	°C	When ambient temp is below 35° C, IPM temp is lower than 80° C and the highest temp won't be above 95° C.
10			Fan motor's operating freq	HZ	Changes in 0~49Hz according to system's pressure.
11			IDU ambient temp	$^{\circ}$	
12			Indoor heat exchanger's inlet temp	$^{\circ}\!\mathbb{C}$	•According to ambient temp, for a same IDU in cool mode, the inlet temp will be 1°C~7°C lower than the outlet temp, and 4~9°C higher than the
13		IDU parameters	Indoor heat exchanger's inlet temp	$^{\circ}\!\mathbb{C}$	low pressure value. •For a same IDU in heat mode, the inlet temp will be 10°C~20°C lower than the outlet temp.
14			Opening angle of indoor EXV	PL S	 In cool mode, the opening angle of indoor EXV varies within 70~480PLS. In heat mode, the opening angle of indoor EXV varies within 70~480PLS.
15		mmunication parameters	Communication data	_	Number of IDUs detected by software is the same with the actual number. No communication error.
16	•	inage system		_	Indoor unit can drain water out completely and smoothly. Condensate pipe has no backward slope of water; Water of outdoor unit can be drained completely through drainage pipe. No water drop from unit base.
17		Others		_	Compressor and indoor/outdoor fan motor do not have strange noise. Unit can operate normally.

6 Common Malfunctions and Troubleshooting



- ① If there is abnormal condition (e.g. unpleasant smell), turn unit off and disconnect power immediately. Then contact Gree authorized service center. If unit continues operation despite the abnormal condition, it may get damaged and lead to electric shock or fire hazard.
- ② Do not repair the air conditioner by yourself. Improper maintenance may lead electric shock or fire hazard. Please contact Gree authorized service center for maintenance.
 - (1) Please check the items below before calling for maintenance.

Problems	Causes	What to do
	Fuse or circuit breaker is cut off.	Replace fuse or reset the circuit breaker.
Unit doopn't work	Power failure	Restart unit when power is restored.
Unit doesn't work.	Power is not connected.	Connect the power.
	Remote controller's power is not enough	Replace new battery.
	Remote controller is out of the control range.	Control range is within 8m.
Unit runs but stops immediately.	Air inlet or air outlet of indoor and outdoor units is blocked.	Clear obstructions.
•	Air inlet or air outlet of indoor and outdoor units is blocked.	Clear obstructions.
	Improper temp setting	Adjust setting at remote controller or wired controller
	Fan speed is set too low.	Adjust setting at remote controller or wired controller
Abnormal cooling or	Wind direction is not correct.	Adjust setting at remote controller or wired controller
heating	Door or window is open.	Close the door or window.
	Direct sunshine	Draw curtain or louver.
	Too many people in the room.	
	Too many heat resources in the room.	Reduce heat resources.
	Filter is blocked and dirty.	Clean the filter

Note

If problem cannot be solved after checking the above items, please contact Argoclima service center and describe the cases and models.

(2) Following circumstances are not malfunctions.

	Malfunction	Reason		
Unit doesn't run.	Unit starts up immediately after it is turned off.	Overload protection switch makes it run after a 3-min delay.		
	Power is just turned on.	Standby operation lasts for about 1min.		
Mist comes from the unit.	Under cooling	Indoor air with high humidity is cooled rapidly.		
	Slight cracking sound is heard when unit is just turned on.	It is the noise when electronic expansion valve is initialized.		
	There is consecutive sound when cooling.	It is the sound for gas refrigerant flowing in the unit.		
Noise is emitted.	There is sound when unit starts or stops.	It is the sound when gas refrigerant stops flowing		
	There is slight and consecutive sound when unit is running or after running.	This is the sound of drainage operation.		
	Cracking sound is heard when unit is running or after running.	This is the sound caused by the expansion of panel and other parts of the unit due to temperature change.		
Unit blows out dust.	Unit starts up after not operating for a long time.	Dust in indoor unit is blown out.		
Unit emits odor.	Under operation	Unit absorbs the room odor and then blows it out.		

7 Error Indication

Inquiry method of error indication: combine division symbol and content symbol to check the corresponding error.

Indoor:

Error Code	Content	Error Code	Content
L0	Malfunction of IDU (uniform)	d1	Indoor PCB is poor
L1	Protection of indoor fan	d3	Malfunction of ambient temperature sensor
L2	Auxiliary heating protection	d4	Malfunction of entry-tube temperature sensor
L3	Water-full protection	d5	Malfunction of middle temperature sensor
L4	Abnormal power supply for wired controller	d6	Malfunction of exit-tube temperature sensor
L5	Freeze prevention protection	d7	Malfunction of humidity sensor
L6	Mode shock	d9	Malfunction of jumper cap
L7	No main IDU	dA	Web address of IDU is abnormal
L8	Power supply is insufficient	dH	PCB of wired controller is abnormal
L9	1-to-more: number of IDU is inconsistent	dC	Setting capacity of DIP switch code is abnormal
LA	t1-to-more: IDU series is inconsistent	dL	Malfunction of air outlet temperature sensor
LH	Alarm due to bad air quality (Fresh air unit)	dE	Malfunction of indoor CO ₂ sensor
LC	IDU is not matching with outdoor unit	db	Debugging status

Outdoor:

Error Code	Content	Error Code	Content
E0	Malfunction of ODU (uniform)	F0	Main board of ODU is poor
E1	High-pressure protection	F1	Malfunction of high-pressure sensor
E2	Discharge low-temperature protection	F3	Malfunction of low-pressure sensor
E3	Low-pressure protection	F5	Malfunction of discharge temperature sensor of compressor 1
E4	High discharge temperature protection of compressor	FP	Malfunction of DC motor
E5	High discharge temperature protection of compressor 1	b1	Malfunction of outdoor ambient temperature sensor
EC	Drop protection of discharge temperature sensor of compressor 1	b2	Malfunction of defrosting temperature sensor 1
J1	Over-current protection of compressor 1	b4	Malfunction of liquid temperature sensor of sub-cooler
J7	Gas-mixing protection of 4-way valve	b5	Malfunction of gas temperature sensor of sub-cooler
J8	High pressure ratio protection of system	b6	Malfunction of inlet tube temperature sensor of vapor liquid separator
J9	Low pressure ratio protection of system	b7	Malfunction of exit tube temperature sensor of vapor liquid separator
JA	Protection because of abnormal pressure	b9	Malfunction of gas temperature sensor of heat exchanger
JL	Protection because high pressure is too low	bH	Clock of system is abnormal
P0	malfunction of driving board of compressor (uniform)	H0	Malfunction of driving board of fan (uniform)
P1	Driving board of compressor operates abnormally (uniform)	H1	Driving board of fan operates abnormally (uniform)
P2	Voltage protection of driving board power of compressor (uniform)	H2	Voltage protection of driving board power of fan (uniform)
P3	Reset protection of driving module of compressor	НЗ	Reset protection of driving module of fan
P4	Drive PFC protection of compressor	H4	Drive PFC protection of fan
P5	Over-current protection of inverter compressor	H5	Over-current protection of inverter fan
P6	Drive IPM module protection of compressor	H6	Drive IPM module protection of fan
P7	Malfunction of drive temperature sensor of compressor	H7	Malfunction of drive temperature sensor of fan
P8	Drive IPM high temperature protection of compressor	H8	Drive IPM high temperature protection of fan
P9	Desynchronizing protection of inverter compressor	H9	Desynchronizing protection of inverter fan

Error Code	Content	Error Code	Content
PH	High-voltage protection of compressor's drive DC bus bar	нн	High-voltage protection of fan's drive DC bus bar
PC	Malfunction of current detection circuit drive of compressor	НС	Malfunction of current detection circuit of fan drive
PL	Low voltage protection for DC bus bar of drive of compressor	HL	Low voltage protection of bus bar of fan drive
PE	Phase-lacking of inverter compressor	HE	Phase-lacking of inverter fan
PF	Malfunction of charging loop of driven of compressor	HF	Malfunction of charging loop of fan drive
PJ	Failure startup of inverter compressor	HJ	Failure startup of inverter fan
PP	AC current protection of inverter compressor	HP	AC current protection of inverter fan
Ed	Low temperature protection for drive module		

Debugging:

Error Code	Content	Error Code	Content
U0	Preheat time of compressor is insufficient	C4	Malfunction of lack of IDU
U2	Wrong setting of ODU's capacity code/jumper cap	C5	Alarm because project code of IDU is inconsistent
U4	Refrigerant-lacking protection	C8	Emergency status of compressor
U5	Wrong address for driving board of compressor	C9	Emergency status of fan
U6	Alarm because valve is abnormal	СН	Rated capacity is too high
U8	Malfunction of pipeline for IDU	СС	Malfunction of lack of main control unit
U9	Malfunction of pipeline for ODU	CL	Rated capacity is too low
UC	Setting of main IDU is successfu	CF	Malfunction of multiple main control units
UL	Wrong button-dial	CJ	Address DIP switch code of system is shocking
UE	Charging of refrigerant is invalid	СР	Malfunction of multiple wired controller
C0	Communication malfunction between IDU, ODU and IDU's wired controller	CU	Communication malfunction between IDU and the receiving lamp plate
C2	Communication malfunction between main control and inverter compressor driver	Cb	Overflow distribution of IP address
С3	Communication malfunction between main control and inverter fan driver		

Status:

Error Code	Content	Error Code	Content
A0	Unit waiting for debugging	AP	Debugging confirmation when starting up the unit
A1	Inquiry of compressor operation parameters	AU	Long-distance emergency stop
A2	Refrigerant recovery operation of after-sales	Ab	Emergency stop of operation
А3	Defrosting	Ad	Limit operation
A4	Oil-return	n0	SE operation setting of system
A6	Heat pump function setting	n1	Setting of defrosting cycle K1
A7	Quiet mode setting	n2	Setting of upper limit of IDU/ODU capacity distribution ratio
A8	Vacuum pump mode	n4	Limit setting for max. capacity/output capacity
A9	IPLV test	n6	Inquiry of malfunction
AA	EU AA level EER test mode	n7	Inquiry of parameters
AH	Heating	n8	Inquiry of project code of IDU
AC	Cooling	nA	Heat pump unit
AL	Charge refrigerant automatically	nH	Heating only unit
AE	Charge refrigerant manually	nC	Cooling only unit
AF	Fan	nE	Negative code
AJ	Cleaning reminding of filter	nF	Fan model

8 Function Setting of Outdoor Unit

When debugging is finished, press SW3 on the master unit and unit will be ready for function setting. Default display of outdoor unit's main board is as below:

LED1		LED2		LED3	
Function code	Display	Current progress Display		Current status	Display
A7	Blink	00	Blink	00	Blink

Then press SW1 button(▲) and SW2 button(▼) on the master unit to switch function codes of LED1 to select relevant functions.

Function setting includes: outdoor silent mode setting (A7), heating and cooling function setting (A6), compulsory defrosting (n3)

After selecting relevant functions, press SW7 to confirm and start setting this function. Main board of outdoor unit will display as below:

LED1		LED2		LED3	
Function code	Display	Current progress	Display	Current status	Display
A7	On	00	Blink	оС	Blink
A6	On	nA	Blink	nA	Blink
n3	On	35	Blink	оС	Blink

8.1 ODU Quiet Function

This function is suitable for projects that have strict requirements for noise. It includes two modes: smart night silent mode, compulsory silent mode.

When unit enters function setting, main board of outdoor unit will display as below:

LED1		LED2	LED3		
Function code	Display	Current progress	Display	Current status	Display
A7	On	00	Blink	оС	Blink

Press SW1 button (▲) and SW2 button (▼) to select the following silent modes.

LED1	LED2		LED2 LED3	
Function code	Silent mode	Display	Current status	Display
A7	00~12	Blink	оС	Blink

When applicable mode is selected, press SW7 to confirm. Main board of outdoor unit will display as below:

LED1	LED2			LED3
Function code	Silent mode	Display	Current status	Display
A7	00~12	On	оС	On

Notice: code 00 of LED2 refers to normal mode. Codes 01~09 refer to smart night silent mode. Codes 10~12 refer to compulsory silent mode. When setting is finished, master unit will memorize it so that it can't be cancelled even when power is on or off.

Then press SW6 on the master unit to return to the previous step. (If this button is pressed when function is being set, system will return to the previous step. If SW6 is pressed when setting is finished, system will resume displaying the current operation status.)

If then no motion is taken to the master unit for 5min, unit will exit and resume displaying the current status.

8.2 Cool & Heat Function

This function can set operation modes and prevent mode collision that is caused by setting different modes for different indoor units. It is especially suitable for hotels and other small business areas. There are 3 levels for this setting:

Level A-Mode Lock Control

Upon entering this function setting, main board of outdoor unit will display as below:

LED1	LED2		LE	ED3
Function code	Current progress	Display	Current status	Display
A6	nC	Blink	nC	Blink

Press SW1 button (▲) and SW2 button (▼) to select the following functions:

LED1		LED2		LED3	
Function code	Display	Current progress/mode	Display	Current status	Display
A6	On	nC	Blink	nC	Blink
A6	On	nH	Blink	nH	Blink
A6	On	nA	Blink	nA	Blink
A6	On	nF	Blink	nF	Blink

When applicable mode is selected, press SW7 to confirm. The related display is as below:

LED1		LED2		LED3	
Function code	Display	Current progress/mode	Display	Current status	Display
A6	On	nC	On	nC	On
A6	On	nH	On	nH	On
A6	On	nA	On	nA	On
A6	On	nF	On	nF	On

This setting will be memorized by master unit and can't be cancelled even when power is on or off.

Then press SW6 on the master unit to return to the previous step.

If then no motion is taken to the master unit for 5min, unit will exit and resume displaying the current status.

(If this button is pressed when function is being set, system will return to the previous step. If SW6 is pressed when setting is finished, system will resume displaying the current operation status.)

Default setting is "nA" cooling and heating type.

Level B—IDU Mode Auto Control

When Level A is disabled or outdoor unit is set to be cooling and heating type, the operation mode within one system depends on the master-salve setting of indoor units.

8.3 Forced Defrosting

This function can only be set when outdoor compressor is running.

Upon entering this function, main board of outdoor unit will display as below:

LED1		LED2		LED3	
Function code	Display	Current progress/mode	Display	Current status	Display
n3	On	00	Blink	00	Blink

Press SW7 to confirm. When system enters this function, main board of outdoor unit will display as below:

LED1		LED2		LED3	
Function code	Display	Current progress/mode	Display	Current status	Display
n3	On	00	On	00	On

Then unit will be in compulsory defrosting mode. Once unit is under compulsory defrosting, this mode can only be stopped when requirements for exit are met.

8.4 Restore Factory Defaults

i.If you want to restore factory defaults, hold SW8 button on the main board of ODU for more than 10s, then all LEDs will blink for 3s. Main board will cancel all setting, including the IP addresses and project codes of IDU and ODU. The mark for finished debugging is "0".

ii.If you want to restore factory defaults and don't need project debugging, then hold SW3 and SW8 on the main board of ODU for more than 10s, then all LEDs will blink for 5s. All settings are cleared out, including the IP addresses and project codes of IDU and ODU. The mark for finished debugging remains the same.

iii.When you only want to restore the default functions, hold SW5 and SW8 button for more than 10s, then all LED will blink for 7s. All function settings are cleared out, but IDU and ODU's project codes and the mark for finished debugging remain the same.

8.5 Static Pressure Function

If ODU's installation area is not convenient for releasing air and users do not have strict requirements for ODU noise, this function can be set to satisfy the heat exchange of ODU.

Before power on, set codes of SA6 of main board. The relevant static pressure is:

Code se	tting SA6	Static pressure (Pa)
DIP1	DIP2	(Pa)
0	0	0
1	0	20

Note: code of number side is "1"; default code of SA6 is "00".

9 Maintenance and Care

Regular check, maintenance and care can extend unit's service life. Please have specialized person in charge of the management of air conditioners.

9.1 Outdoor Heat Exchanger

Outdoor heat exchanger shall be cleaned regularly, which is at least once every two months. You can use a dust catcher with nylon brush to clean away the dust on the heat exchanger. If compressed air source is available, it also can be used to clean the heat exchanger. Do not clean it with water.

9.2 Drain Pipe

Please check regularly whether drain pipe is blocked or not. Make sure condensate can be drained out smoothly.

9.3 Notice before Seasonal Use

- (1) Check whether air inlets and air outlets of indoor and outdoor units are blocked;
- (2) Check whether ground connection is reliable or not;
- (3) Check whether batteries in the remote controller are replaced or not;
- (4) Check whether air filter is properly installed;
- (5) If unit starts up after not operating for a long time, it should be power on 8 hours before operation starts so as to preheat the outdoor compressor;
- (6) Check whether outdoor unit is securely installed. If there is any problem, please contact Argoclima authorized service center.

9.4 Maintenance after Seasonal Use

- (1) Disconnect power of the entire system;
- (2) Clean the air filter and outer case of indoor and outdoor units;
- (3) Clean away the dust and obstacles on indoor and outdoor units;
- (4) If outdoor unit has rust, please apply some paint to it so as to prevent the rust from growing.

9.5 Parts Replacement

Parts and components can be obtained from nearby Argoclima office or Argoclima distributor.



When you are conducting air tightness test and leakage test, do not mix oxygen, C2H2 or other dangerous gas into the refrigerant circuit. Otherwise, it may lead to danger. Use nitrogen or refrigerant to conduct the tests.

10 After-sales Service

If there's quality defect or other problems in the product, please contact Argoclima local after-sales service department for help.

Warranty must be based on the following conditions:

- (1) Product's initial startup must be performed by professional technicians from Argoclima service center or persons assigned by Argoclima.
- (2) Only Argoclima spare parts are used,
- (3) All instructions of unit operation and maintenance in this manual must be strictly followed according to set period and set frequency.
- (4) Any breach of the above conditions will disable the warranty.

REGULATION (EU) N. 517/2014 - F-GAS

The unit contains R410A, a fluorinated greenhouse gas, with global warming potential (GWP) = 2087.50. Do not dispose of R410A in the environment.

AEG04MMIH - Kg. 3.3 = 6.89 Tonn CO₂ equiv.

AEG05MMIH - Kg. 3,3 = 6,89 Tonn CO₂ equiv.

AEG06MMIH - Kg. 3,3 = 6,89 Tonn CO₂ equiv.

