

## **OWNER'S MANUAL**





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## Explanation of Symbols



This symbol indicates the possibility of death or serious injury.

NOTICE

This symbol indicates the possibility of injury or damage to property.

Indicates important but not hazard-related information, used to indicate risk of property damage.

## Exception Clauses

Manufacturer will bear no responsibilities when personal injury or property loss is caused by the following reasons.

- 1.Damage the product due to improper use or misuse of the product;
- 2.Alter, change, maintain or use the product with other equipment without abiding by the instruction manual of manufacturer;
- 3.After verification, the defect of product is directly caused by corrosive gas;
- 4.After verification, the defects are due to improper operation during transportation of product;
- 5.Operate, repair, maintain the unit without abiding by instruction manual or related regulations;
- 6.After verification, the problem or dispute is caused by the quality specification or performance of parts and components that produced by other manufacturers;
- 7. The damage is caused by natural calamities, bad using environment or force majeure.

If it needs to install, move or maintain the air conditioner, please contact dealer or local service center to conduct it at first. Air conditioner must be installed, moved or maintained by appointed unit. Otherwise, it may cause serious damage or personal injury or death.

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.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

#### The refrigerant



#### The Refrigerant

- To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The used refrigerant is the fluoride R290, which is specially cleaned. The refrigerant is flammable and inodorous. Furthermore, it can lead to explosion under certain conditions.
- Compared to common refrigerants, R290 is a nonpolluting refrigerant with no harm to the ozonosphere. The influence upon the greenhouse effect is also lower. R290 has got very good thermodynamic features which lead to a really high energy efficiency. The units there fore need a less filling.

#### WARNING

- Appliance filled with flammable gas R290.
- Appliance shall be installed, operated and stored in a room with a floor area larger than 11m<sup>2</sup>.
- 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.)
- The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- The appliance shall be stored so as to prevent mechanical damage from occurring.
- Ducts connected to an appliance shall not contain an ignition source.
- Keep any required ventilation openings clear of obstruction.
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.
- Do not use means to accelerate the defrosting process or to clean,other than those recommended by the manufacturer.
- Servicing shall be performed only as recommended by the manufacturer.

- Should repair be necessary,contact your nearest authorized Service Centre. Any repairs carried out by unqualified personnel may be dangerous.
- Compliance with national gas regulations shall be observed.
- Read specialist's manual.



Frequency band(s) in which the radio equipment operates: 2400MHz-2483.5MHz

Maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates: 20dBm

R290:3



This marking indicates that this product should not be disposed with other house hold wastes throughout the EU. To prevent possible harm to the environm-

ent or human health from uncontrolled

waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

## Safety precautions



- 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.
- Before operation, please confirm whether power specification complies with that on nameplate.
- Before cleaning or maintaining the air conditioner, please turn off air conditioner and pull out the power plug.
- Make sure the power cord hasn't been pressed by hard objects.
- Do not pull or drag the power cord to pull out the power plug or move the air conditioner.
- Do not insert or pull out the power plug with wet hands.
- Please use the grounded power. Make sure the grounding is reliable.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- If abnormal condition occurs (e.g. burned smell), please disconnect power at once and then contact local dealer.
- When nobody is taking care of the unit, please turn it off and remove the power plug or disconnect power.
- Do not splash or pour water on air conditioner. Otherwise, it may cause short circuit or damage to air conditioner.
- If drainage hose is used, ambient temperature can't be lower than 0°C. Otherwise, it will cause water leakage to air conditioner.
- Prohibit operating heating equipment around the air conditioner.
- Prohibit operating the unit in the bathroom or laundry room.
- Far away from fire source, inflammable and explosive objects.
- Children and disabled people are not allowed to use the portable room air conditioner without supervision.
- Keep children from playing or climbing on the air conditioner.



- Do not put or hang dripping objects above the air conditioner.
- Do not repair or disassemble the air conditioner by yourself.
- Prohibit inserting any objects into the air conditioner.
- Do not through sundries into the air duct. If there are sundries get into the air duct, please contact the professionals to deal with it.
- Do not use an extension cord.
- Specification of fuse on the main board:T3.15AH 250V; the maximum current passes through the fuse can't be more than 3.15A.
- The appliance shall be installed in accordance with national wiring regulations.

## **Operation environment**

- The air conditioner must be operated within the temperature range: 16°C(61°F)~35°C(95°F).
- The appliance is for indoor use only.
- The appliance must be positioned so that the plug is accessible.
- This air conditioner can only be used for family, not for commercial industry.
- Reserved space around the air conditioner should be 30cm(12") at least.
- Do not operate the air conditioner at humid environment.
- Please keep air inlet and air outlet clean, no obstacles.
- During operation, close doors and windows to improve cooling effect.
- Please put the air conditioner at smooth and flat ground for operation to avoid noise and vibration.
- This air conditioner is equipped with castors. Castors should slide at smooth and flat ground.
- Prohibit inclining or turning over the air conditioner. If there's abnormity, please disconnect power immediately and contact dealer.
- Avoid direct sunshine.





#### NOTICE

- Actual product may be different from graphics, please refer to actual products.
- Some installation accessories can't be discarded.

## **Operation introduction for control panel**

#### Name of control panel Timer indicator + / - button Dry mode indicator Swing indicator Cool mode indicator WiFi indicator **ON/OFF** button Low Cool Drv Med +Timer Mode ப 3 Fan Swing High Fan L Auto Heat Fan mode indicator Mode button Fan button Dual-8 nixie tube Heat mode indicator Fan speed indicator Swing button (Cool&Heat Unit only) Timer button

#### NOTE

- After putting through the power, the air conditioner will give out a sound. After that, you can operate the air conditioner by the control panel.
- Under ON status, after each pressing of the button on control panel, the air conditioner will give out a sound. Meanwhile, corresponding indicator on control panel will be bright.
- Under OFF status, dual-8 nixie tube on control panel won't display. Under ON status, dual-8 nixie tube on control panel will display set temperature under cooling mode and Heating mode (Cool&Heat Unit only), while it won't display under other modes.

#### **Operation of control panel**

#### 1 ON/OFF button

Pressing this button can turn on or turn off the air conditioner.

#### **2** + / - button

Under cooling or heating mode, press "+" or "-" button to increase or decrease set temperature by 1°C(°F). Set temperature range is 16°C(61°F)~30°C(86°F). Under dry or fan mode, this button is invalid.

#### 3 Fan button

Press this button and the fan speed will circulate as:

→ low speed → medium speed —

auto fan

— high speed 🗸

#### 4 Mode button

Press this button and the mode will circulate as:

Cool: Under this mode, cool mode indicator is bright. Dual-8 nixie tube displays set temperature. Temperature setting range is  $16^{\circ}C$  ( $61^{\circ}F$ )  $\sim 30^{\circ}C(86^{\circ}F)$ .

Dry: Under this mode, dry mode indicator is bright. Dual-8 nixie tube won't display.

Fan: Under this mode, the air conditioner only blow fan. Fan mode indicator is bright. Dual-8 nixie tube won't display.

Heat (Cool&Heat Unit only ) : Under this mode, heating mode indicator is bright. Dual-8 nixie tube displays set temperature. Temperature setting range is  $16^{\circ}C(61^{\circ}F)\sim30^{\circ}C(86^{\circ}F)$ .

#### 5 Timer button

Press this button and the mode will circulate according to below sequence:

Press timer button to enter into timer setting mode. Under this mode, press "+" or "- " button to adjust the timer setting. Timer setting will increase or decrease 0.5 hour by pressing " + " or " - " button within 10 hours, while timer setting will increase or decrease 1 hour by pressing "+" or " - " button beyond 10 hours. After timer

#### **Operation of control panel**

setting is finished, the unit will display temperature if there's no operation for 5s. If timer function is started up, the upper indicator will keep the display status. Others, it won't be displayed. Under timer mode, press timer button again to cancel timer mode.

#### 6 🔶 display

When the pattern is bright, it shows wifi opened

#### 7 Swing

Press this button,horizontal louver of air conditioner will swing up&down automatically.Single press it to switchover between on and off.

### Using the remote controller

This is a general use remote controller, it could be used for the air conditioners with multifunction; For some function, which the model doesn't have, if press the corresponding button on the remote controller that the unit will keep the original running status.

#### How to use the remote controller

Point the remote control toward the Signal receiver and press the desired button. The unit generates a beep when it receives the signal.

- Make sure nothing, such as curtains, blocks the signal receiver window.
- The signal effective distance is no more than 8m.



#### 

- Do not expose the receiver window to direct sunlight. This may adversely affect its operation.
- Use of certain fluorescent lamp in the same room may interfere with transmission of the signal.
- Do not leave the remote control in direct sunlight or near a heater. Protect the remote control from moisture and shock.



Introduction for icons on display screen

FAN AUTO		Set fan speed	
	\$	Turbo mode	
	<b>?</b>	Send signal	
e	$\bigtriangleup$	Auto mode	
bom	*	Cool mode	
tion	6 <sup>6</sup> 6	Dry mode	
era	\$	Fan mode	
dO	\$	Heat mode	
	(**	Sleep mode	
	\$	8°C(46°F) heating function	
A Health		Health mode	
纪		ventilation operation	
, it.		I feel function	
<del>&amp;</del>		X-FAN function	
년년 Temp. display type		🗋 Set temp.	
		<ul> <li>☐ Indoor ambient</li> <li>⊡ temp.</li> </ul>	
		Outdoor ambient در Outdoor ambient در Outdoor ambient	
	88	Set temperature	
	WiFi	WiFi function	
88.8		Set time	
	ONOFF	TIMER ON / TIMER OFF	
	₹Ç₹	Light	
	<b>1</b> 0	Up & down swing	
Child loo		Child lock	

#### Introduction for buttons on remote controller

#### NOTE

• This is a general use remote controller. It could be used for the air conditioner with multifunction. For the functions which the model doesn't have, if press the corresponding button on the remote controller, the unit will keep the original running status.

#### On/Off button

Press this button to turn on the unit. Press this button again to turn off the unit.

#### Mode button

Press this button to select your required operation mode.



#### • Auto:

Under this mode, the unit will operate automatically according to ex-factory setting. In this case, set temperature cannot be adjusted.

#### • Cool:

Under this mode, air conditioner operates under cooling mode. Cooling indicator will be on. Press "Fan" button can adjust the fan speed.

#### • Dry:

Under this mode, the unit runs in low fan speed for dehumidification and the corresponding indicator is on; under dry mode, the fan speed can not be adjusted.

#### • Fan Only:

Under this mode, air conditioner will not cool or heat, only blow wind. Fan indicator will be on. Press "Fan" button can adjust the fan speed.

• Heat:

Under this mode, air conditioner operates under heating mode. Press "Fan" button can adjust the fan speed.(Cooling only unit won't receive heating mode signal. If setting heat mode with remote controller, press ON/OFF button can't start up the unit).

#### +/- button

Pressing "+" or "-" button once will increase or decrease set temperature by 1°C(°F). Hold "+" or "-" button for 2s, set temperature on remote controller will change quickly.

Release the button after your required set temperature is reached. • Under timer setting status, after each pressing of "+" or "-" button, time will increase or decrease 0.5h. Hold "+" or "-" button, 2s later, time displayed on dual-8 nixie tube will change quickly. Loosen the button until the time is reached to your set time.

#### Swing button

Press this button to turn "ON" & "OFF" swing.

• This function is only available for some models.

#### Fan button

This button is used for setting Fan Speed in the sequence that goes from AUTO, , , , , , to then back to Auto.



#### Sleep button

Press this button to go into the Sleep operation mode. Press it again to cancel this function. This function is available in COOL, HEAT (Only for models with heating function) mode to maintain the most comfortable temperature for you.

#### Timer button

Under ON status, press this button to set timer OFF; Under OFF status, press this button to set timer ON. Press this button once and the characters of HOUR ON (OFF) will flash to be displayed. Meanwhile, press "+" button or "-" button to adjust timer setting (time will change quickly if holding "+" or "-" button) Time setting range is 0.5~24hours. Press this button again to confirm timer setting and the characters of HOUR ON (OFF) will stop flashing. If the characters are flashing but you haven't pressed timer button,timer setting status will be quit after 5s.If timer is confirmed, press this button again to cancel timer.

#### Health button

• Not available for this unit

#### Introduction for buttons on remote controller

#### WiFi button

Press "WiFi" button to turn on WiFi function, "WiFi" icon will be displayed on the remote controller; Hold "WiFi" button for 5s to turn off WiFi function and "WiFi" icon will disappear.

Under off status, press "Mode" and "WiFi" buttons simultaneously for 1s, WiFi module will restore factory settings.

• This function is only available for some models.

#### Function introduction for combination buttons

#### Temperature display switchover function

Under OFF status, press "-" and "Mode" buttons simultaneously to switch temperature display between  $^\circ\text{C}$  and  $^\circ\text{F}$ 

#### Light function

Under switch-on or switch-off state, you may hold "+"and "FAN" buttons simultaneously to set the lamp on or off and send the code. After being energized the lamp is defaulted on.

## Replacement of batteries in remote controller

- Replace two 7# (AAA 1.5V) dry batteries, and make sure the position of "+" polar and "-" polar are correct.
- 3. Reinstall the cover of battery box.



#### NOTICE

- The distance between signal sender and receiving window should be no more than 8m, and there should be no obstacles between them.
- As the signal will be interfered in the room with electronic fluorescent lamp, conversion fluorescent lamp or wireless phone, please get closer to the air conditioner when using the remote controller.
- Replace new batteries of the same model when replacement is required.
- When you don't use remote controller for a long time, please take out the batteries.
- Do not ingest battery, Chemical Burn Hazard;
- Keep new and used batteries away from children.
- If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- The batteries contain materials, which are hazardous to the environment; they must be removed from the appliance before it is scrapped and that they are disposed of safely.

## **Clean and maintenance**

#### $\mathbf{M}$ warning =

- Before cleaning the air conditioner, please turn off the unit and disconnect power. Otherwise, it may cause electric shock.
- Do not wash air conditioner with water. Otherwise, it may cause electric shock.
- Do not use volatile liquid (such as thinner or gas) to clean the air conditioner. Otherwise, it may damage the appearance of air conditioner.
- Do not use liquid or corrosive detergent to clean the appliance and do not splash water or other liquid onto it, otherwise, it may damage the plastic components, even cause electric shock.

## Clean outer case and grille

#### Clean outer case:

If there's dust on the surface of outer case, please use soft towel to wipe it. If the outer case is very dirty (such as grease), please use neutral abluent to wipe it.



#### Clean grille:

Use cleaner or soft brush to clean it.

### 📕 Clean filter

1. Remove the filter

Press the clasp as shown in the fig, and then remove the filter ;



2. Clean filter

Use cleaner or water to clean the filter. If the filter is very dirty(such as grease), use warm water  $45^{\circ}C(113^{\circ}F)$  melted with neutral abluent to clean it and then put at shady place to dry it.

3. Install filter

After the filer is cleaned and dried, reinstall it well.



#### NOTICE

- The filter should be cleaned about once every three months. If there's much dust in the operation environment, you can increase clean frequency.
- Do not dry the filter with fire or hair drier.Otherwise, it may be deformed or catch fire.

#### Clean heat discharge pipe

Remove the heat discharge pipe from air conditioner, clean and dry it, and then reinstall it. (For the method of installation and removal, please refer to the instruction for "Installation and disassembly of heat discharge pipe").

#### Checking before use-season

- 1. Check whether air inlets and air outlets are blocked.
- 2. Check whether plug and socket are in good condition.
- 3. Check whether filter is clean.
- 4. Check whether batteries are installed in remote controller.
- 5. Check whether joint, window bracket and heat discharge pipe are installed tightly.
- 6. Check whether heat discharge pipe is damaged.

#### Checking after use-season

- 1. Disconnect power supply.
- 2. Clean filter and outer case.
- 3. Remove dust and sundries on the air conditioner.
- 4. Eliminate accumulated water in chassis (refer to the section of "Drainage way" for details).
- 5. Check whether window bracket is damaged or not. If yes, please contact dealer.

#### Long-time storage

If you don't use the air conditioner for a long time, please maintain it by following steps for good performance:

- Make sure there's no accumulated water in chassis and the heat discharge pipe is disassembled.
- Pull out the plug and wrap the power cord.
- Clean the air conditioner and pack it well to prevent dust.

#### Notice for recovery

- Many packing materials are recyclable materials. Please deal with them through local recycle bin.
- If you want to throw away the air conditioner, please contact local division or consultant service center for the correct disposal method.

## Malfunction analysis

#### Please check below items before asking for maintenance. If the malfunction still can't be eliminated, please contact local dealer or qualified professionals.

Phenomenon	Check items	Solution
	Power failure?	Wait after power recovery.
	Is plug loose?	Reinsert the plug.
Air conditio- ner can't operate	Whether the air switch is tripped off or fuse is burnt? Is there malfunction for the circuit? Whether the unit is restarted up after st- opping immediately?	Ask professional pe- rson to replace air switch or fuse. Ask professional per- son to replace circuit. Wait for 3min, and then turn on the unit again
	Is the power too low?	Wait after voltage is resumed.
Poor cooling	Whether the air filter is too dirty?	Clean the air filter.
(heating)	Whether the set tem- perature is proper?	Adjust the tempera- ture.
	Whether door and window are closed?	Close door and window.
Air conditioner	Whether the unit is interfered seriously (such as static pre- ssure, unstable voltage)?	Please pull out the plug. Insert the plug after about 3min, and then turn on the unit.
	Whether remote co- ntroller is within the receiving range?	The receiving range of remote controller is 8m. Do not exceed this range.
can't receive signal from	Whether it's blocked by obstacles?	Remove the obstacles.
remote con- troller or rem- ote controller is not sensible	Is sensitivity of rem- ote controller low?	Check the batteries of remote controller. If the power is low, please replace the batteries.
	Whether there's flu- orescence lamp in the room?	Move the remote co- ntroller close to air conditioner. Turn off the fluoresc- ence lamp and try it again.
You can heard the sound of "PAPA"	Whether the unit is turned on or turned of just now?	Heat expansion or shrinkage for the panel due to change of temperature, which cause friction sound.
There's abn- ormal sound during oper- ation	Whether the unit is interfered by thunder, radio, etc?	Disconnect power, put through the power again, and then turn on the unit again.
There's off flavour	there's off-flavour source in the room, such as furniture, cigarette etc.	Eliminate the off-flavour source. Clean the filter.

Phenomenon	Check items	Solution
	Whether air outlet or air inlet is blocked?	Eliminate the obstacles.
	Under heating mode, whether indoor temp- erature increase set temperature?(Cool& Heat Unit only)	The unit will stop blo- wing fan after reaching set temperature.
No air blowed out from air conditioner	Whether heating mode is started up just now? (Cool& Heat Unit only)	In order to prevent cold air, air conditioner will delay for a while to be started up, which is the normal phenomenon.
	Whether evaporator is defrosted? (obser- ve it by pulling out the filter)	It's the normal pheno- menon. Air conditioner is defrosting. After de- frosting is finished, it will resume operation.
Set temper-	Whether the unit op- erates under auto mode?	Temperature can't be adjusted under auto mode.
be adjusted.	Whether the requir- ed temperature exceeds the temp- erature setting range?	Temperature setting range: 16°C(61°F)- 30°C(86°F)
You can heard water-flowing sound	Whether the unit is turned on or turned off just now?	There's flowing sound of refrigerant inside the air conditioner, which is the normal phenomenon.

### Malfunction code

Error code	Troubleshooting	
F0, F1, F2, F4	Please contact qualified professionals for service.	
E8, H3	<ol> <li>Check if the unit is under high-temperature and high-humidity environment; if ambient temperature is too high, power off the unit and then energize it for operation after the ambient temperature drops to 35°C(95°F) below.</li> <li>Check if the evaporator and condenser are blocked by some objects; if yes, take away the objects, power off the unit and then energize it for operation.</li> <li>If the malfunction still occur, please co- ntact our after-sales service center.</li> </ol>	
<ul> <li>H8</li> <li>H8</li> <li>H8</li> <li>I.Pour out the water inside chassis.</li> <li>2.If "H8" still exist, please contact professional person to maintain the unit.</li> </ul>		
<ul> <li>If there're following phenomenon,please turn off the air conditioner and disconnect the power immediately.</li> <li>Power cord is overheating or damaged.</li> <li>Abnormal sound during operation.</li> <li>Off-flavor.</li> <li>Water leakage.</li> <li>Do not repair or refit the air conditioner by yourself.</li> <li>If operate the air conditioner under abnormal condition, it may cause malfunction, electric shock or fire hazard.</li> </ul>		

## Installation precaution

#### $\mathbf{W}$ warning =

- Observe all governing codes and ordinances.
- Do not use damaged or non-standard power cord.
- Be caution during installation and maintenance. Prohibit incorrect operation to prevent electric shock, casualty and other accidents.

## Selection of installation location

#### **Basic requirement**

Installing the unit in the following places may cause malfunction. If it is unavoidable, please consult the local dealer:

- 1. The place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air.
- 2. The place with high-frequency devices (such as welding machine, medical equipment).
- 3. The place near coast area.
- 4. The place with oil or fumes in the air.
- 5. The place with sulfureted gas.
- 6. Other places with special circumstances.
- It's not allowed to be installed on the unstable or motive base structure (such as truck) or in the corrosive environment (such as chemical factory).

#### Requirement of air conditioner

- 1. Air inlet should be far away from obstacles and do not put any objects near air outlet. Otherwise, it will affect the radiation of heat discharge pipe.
- Select a location where the noise and outflow air emitted by the outdoor unit will not affect neighborhood.
- 3. Please try your best to keep far away from fluorescent lamp.
- 4. The appliance shall not be installed in the laundry.

#### **Requirements for electric connection**

Safety precaution

- 1. Must follow the electric safety regulations when installing the unit.
- 2. According to the local safety regulations, use qualified power supply circuit.
- For appliances with type Y attachment, the instructions shall contain the substance of the following. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- 4. Properly connect the live wire, neutral wire and grounding wire of power socket.
- 5. Be sure to cut off the power supply before proceeding any work related to electricity and safety.
- 6. Do not put through the power before finishing installation.

- 7. The air conditioner is first class electric appliance. It must be properly grounding with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
- 8. The yellow-green wire or green wire in air conditioner is grounding wire, which can't be used for other purposes.
- 9. The grounding resistance should comply with national electric safety regulations.
- 10.To be in compliance with IEC 61000-3-11, impedance value of power-supply system connected to product must be less than or e qual to the allowable maximum value of |Zsys| in the following sheet:

models	max  Zsys  unit:ohm
AZO-MP35VB	0.25

## Preparation before installation

#### NOTE

 Check if the accessories are available before installation.

#### **Accessory list**



#### Optional



## Install power cord hooks

• Assemble the power cord hooks at the back of the unit with screws (the direction of power cord hooks is as shown in following fig).

direction of power cord hooks is upward



• Wind the power cord around the power cord hooks.



## Drain water

- To reach the maximum performance, it is not recommended to drain water, during Cool mode.
- It is recommended to use the middle drainage port to drain water, during Dry mode.
- It is recommended to use the bottom drainage port to drain water, during Heat mode.
- To drain water from the bottom drainage port when the display shows "H8".

Drainage method

#### **1** Drain water from the bottom drainage port.

- Turn off the unit and pull out the plug from the socket.
- Place a water container under the bottom drainage port, or move the machine to a place where it can drain.
- Remove the rubber plug of the bottom drainage port to drain water.
- After draining, insert the rubber plug.
- Press ON/OFF button to restart.



Bottom drainage port



#### **2** Drain water from the middle drainage port.

#### NOTE

- Water can be automatically emptied into a floor drain by attaching 13mm inner diameter hose (not included).
- Remove the continuous drain cap 1 by turning it counter clockwise then remove the rubber stopper 2 from the spout.



2. Screw the drain connector to (included in the package) the spout by turning clockwise.

P



3.Insert the drainage hose into drain connector.



#### ATTENTION:

When using continuous drainage option from the middle hole, place portable on a level surface and make sure garden hose is clear of any obstructions and is directed downward. Placing portable on an uneven surface or improper hose installation may result in water filling up the chassis and causing the unit to shut off. Empty water in the chassis if shut off occurs, then check portable location and hose for proper setup.



## Installation of heat discharge pipe

### 📕 Install heat discharge pipe

1. Rotate joint A and Rear clip clockwise into the two ends of heat discharge pipe.



2. Insert joint A of heat discharge pipe into the grovve until you hear a sound.



3. Lead the heat discharge pipe outdoors.



4. Slide and open the exhaust cover on the window panel, and attach the Rear clip. (Optional)





## Note of Installing heat discharge pipe

In order to improve cooling efficiency, the heat discharge pipe should be as short as possible and flat without curve to ensure smooth heat discharge.

The discharge pipe is suggested to be installed according to below figure by the manufacturer.



User can adjust the installation method of the discharge pipe basing on the requirement, while the similar installation methods as below which will lead to unsmoothly air-out are not allowed.



The length of the heat discharge pipe is less than 1m. It is recommended to use it with shortest length.
When installing,heat discharge pipe should be as flat as possible. Don't prolong the pipe or connect it with other heat discharge pipe.



## **Operation test**

- Put through the power supply and then press ON /OFF button on remote controller to start the unit.
- Press mode button to select auto, cooling, drying, fan or heating function, and then check if the unit operates normally.
- If ambient temperature is below 16°C(61°F), the unit can't operate in cooling mode.

## Electric schematic diagram

The electric schematic diagram are subject to change without notice. Please refer to which one on the unit.

#### AZO-MP35VB



# Aptitude requirement for maintenance man(repairs should be done only be specialists).

- a. Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorises their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
- b. Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.

#### Safety preparation work

The maximum refrigerant charge amount is shown on the following table a.

(Note:Please refer to the nameplate for the charging quantity of R290).

Room area (m <sup>2</sup> )	4	11	15
Maximum charge (kg)	<0.152	0.225	0.304

table a - Maximum charge (kg)

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

• Work procedure

Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

• General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material

• Checking for presence of refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe. • Presence of fire extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO<sub>2</sub> fire extinguisher adjacent to the charging area.

No ignition sources

No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

• Checks to the refrigeration equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer s' technical department for assistance.

The following checks shall be applied to installations using flammable refrigerants:

--- The actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed;

--- The ventilation machinery and outlets are operating adequately and are not obstructed;

--- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;

--- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;

--- Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

• Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.

Initial safety checks shall include:

--- That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;

--- That no live electrical components and wiring are exposed while charging, recovering or purging the system;

--- That there is continuity of earth bonding.

#### **Repairs to sealed components**

During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

- Ensure that the apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications. Note :

The use of silicon sealant can inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

#### Repair to intrinsically safe components

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.

Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating.

Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

#### Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

#### **Detection of flammable refrigerants**

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

#### Leak detection methods

The following leak detection methods are deemed acceptable for all refrigerant systems.

Electronic leak detectors may be used to detect refrigerant leaks but, in the case of flammable refrigerants, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the

detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed.

Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.

If a leak is suspected, all naked flames shall be removed/extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. For appliances containing flammable refrigerants, oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process

#### **Removal and evacuation**

When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, for flammable refrigerants it is important that best practice is followed since flammability is a consideration. The following procedure shall be adhered to:

- remove refrigerant;
- purge the circuit with inert gas;
- evacuate;
- purge again with inert gas;
- open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders. For appliances containing flammable refrigerants, the system shall be "flushed" with OFN to render the unit safe. This process may need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing flammable refrigerants, flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place.

Ensure that the outlet for the vacuum pump is not close to any ignition sources and that ventilation is available.

#### **Charging procedures**

In addition to conventional charging procedures, the following requirements shall be followed.

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
- Cylinders shall be kept upright.
- Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigeration system.

Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas.

The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

#### Decommissioning

Before carrying out this procedure, it is essential that

the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to reuse of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.

- a) Become familiar with the equipment and its operation.
- b) Isolate system electrically.
- c) Before attempting the procedure, ensure that:
  - mechanical handling equipment is available, if required, for handling refrigerant cylinders;
  - all personal protective equipment is available and being used correctly;
  - the recovery process is supervised at all times by a competent person;
  - recovery equipment and cylinders conform to the appropriate standards.
- d) Pump down refrigerant system, if possible.
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.
- g) Start the recovery machine and operate in accordance with manufacturer's instructions.
- h) Do not overfill cylinders. (No more than 80 % volume liquid charge).
- i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

#### Labelling

Equipment shall be labelled stating that it has been decommissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing flammable refrigerants, ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

#### Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure

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that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge are available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, flammable refrigerants. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.

The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.