

DAIKIN



**INSTALLATION MANUAL
OPERATION MANUAL**

**CEILING CONCEALED SPLIT TYPE
AIR-CONDITIONER**

**FDKR200AV16
FDKR300AV16
FDKR400AV16**

3P724053-2

**Ceiling Concealed
Split Type Air Conditioner**

Installation Manual & Operation Manual

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INSTALLATION MANUAL

This manual provides the procedures of installation to ensure a safe and good standard of operation for the air conditioner unit. Special adjustment may be necessary to suit local requirements. Before using your air conditioner, please read this instruction manual carefully and keep it for future reference. This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.

1. SAFETY PRECAUTIONS

WARNING

- Installation and maintenance should be performed by qualified persons who are familiar with local code and regulation, and experienced with this type of appliance.
- All field wiring must be installed in accordance with the national wiring regulation.
- Ensure that the rated voltage of the unit corresponds to that of the name plate before commencing wiring work according to the wiring diagram.
- The unit must be GROUNDED to prevent possible hazard due to insulation failure.
- **Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks or fire.**
- All electrical wiring must not touch the refrigerant piping, or any moving parts of the fan motors.
- Confirm that the unit has been switched OFF before installing or servicing the unit.
- Disconnect from the main power supply before servicing the air conditioner unit.
- DO NOT pull out the power cord when the power is ON. This may cause serious electrical shocks which may result in fire hazards.
- Keep the indoor and outdoor units, power cable and transmission wiring, at least 1m from TVs and radios, to prevent distorted pictures and static. (Depending on the type and source of the electrical waves, static may be heard even when more than 1m away).

Special notice of product

[REFRIGERANT]

The system uses R410A refrigerant.

The refrigerant R410A requires that strict precautions be observed for keeping the system clean, dry and tightly sealed. The following procedures must be followed correctly,

A. Clean and dry





Strict measures must be taken to keep impurities (including SUNISO oil and other mineral oils as well as moisture) out of the system.

B. Tight sealed

Take care to keep the system tight when installing. R410A contains no chlorine, does not destroy the ozone layer and so does not reduce the earth's protection against harmful ultraviolet radiations. R410A will contribute only slightly to the greenhouse effect if released to the atmosphere.

CAUTION

Please take note of the following important points when installing.

- **Do not install the unit where leakage of flammable gas may occur.**
 If gas leaks and accumulates around the unit, it may cause fire ignition.
- **Ensure that drainage piping is connected properly.**
 If the drainage piping is not connected properly, it may cause water leakage which will dampen the furniture.
- **Do not overcharge the unit.**
 Overcharge will cause over-current or damage to the compressor.
- **Ensure that the unit's panel is closed after service or installation.**
 Unsecured panels will cause the unit to operate noisily.
- **Sharp edges and coil surfaces are potential locations which may cause injury hazards. Avoid from being in contact with these places.**
- **Before turning off the power supply, set the remote controller's ON/OFF switch to the "OFF" position to prevent the nuisance tripping of the unit.** If this is not done, the unit's fans will start turning automatically when power resumes, posing a hazard to service personnel or the user.
- **Do not install the units at or near doorway.**
- **Do not operate any heating apparatus too close to the air conditioner unit or use in room where mineral oil, oil vapour or oil steam exist, this may cause plastic part to melt or deform as a result of excessive heat or chemical reaction.**
- **When the unit is used in kitchen, keep flour away from going into suction of the unit.**
- **This unit is not suitable for factory used where cutting oil mist or iron powder exist or voltage fluctuates greatly.**
- **Do not install the units at area like hot spring or oil refinery plant where sulphide gas exists.**
- **Ensure the color of wires of the outdoor unit and the terminal markings are same to the indoors respectively.**
- **IMPORTANT: DO NOT INSTALL OR USE THE AIR CONDITIONER UNIT IN A LAUNDRY ROOM.**
- **Don't use joined and twisted wires for incoming power supply.**

NOTE:

[DESIGN PRESSURE]

The design pressure of the system is 4.17MPa. Since R410A is a mixed refrigerant, the required additional refrigerant must be charged in its liquid state (if the system is charged with refrigerant in its gaseous state, the system will not function normally due to the composition change).

2. INSTALLATION OF THE INDOOR UNIT

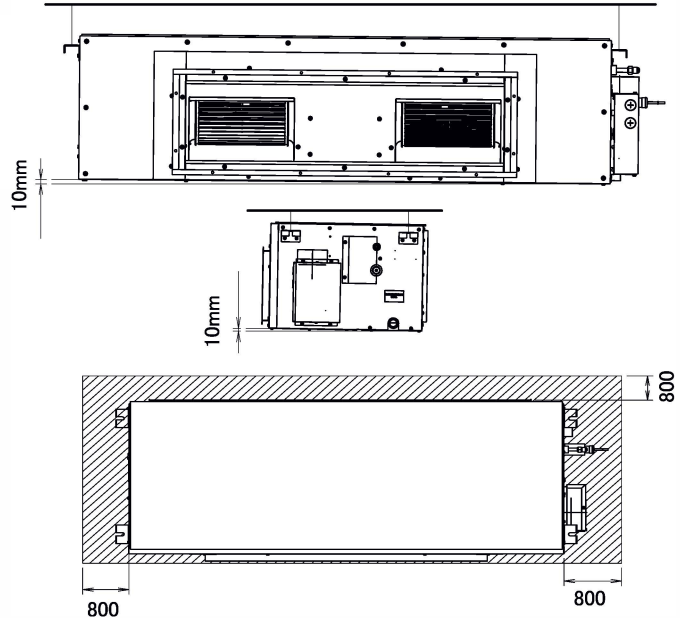
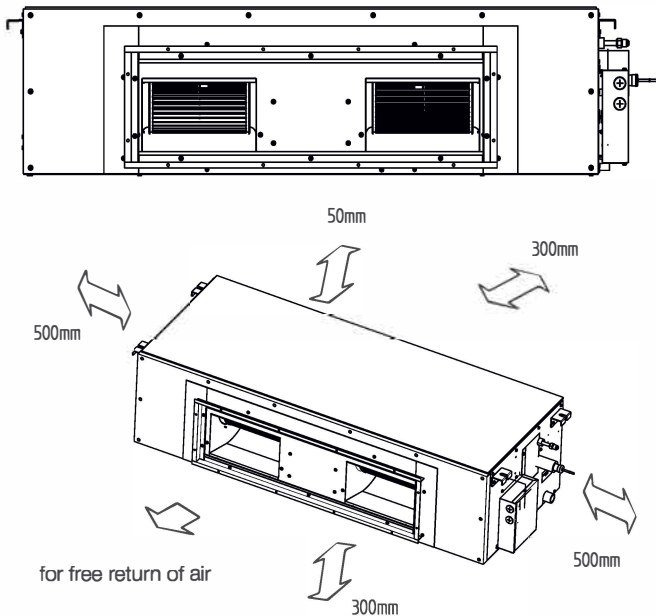
Mounting

Ensure that the overhead supports are strong enough to hold the unit's weight. Position hanger rods and check for alignment with the unit. Check that hangers are secure and that the base of fan-coil unit is level in the two horizontal directions, taking into account the gradient recommended for drainage flow as shown. Check the gradient recommended for drainage flow as follow.

Provide clearance for servicing and optimal air flow as shown in the diagram.

The indoor unit must be installed such that there is no short circuit of cool discharge with air discharge. Respect the installation clearance.

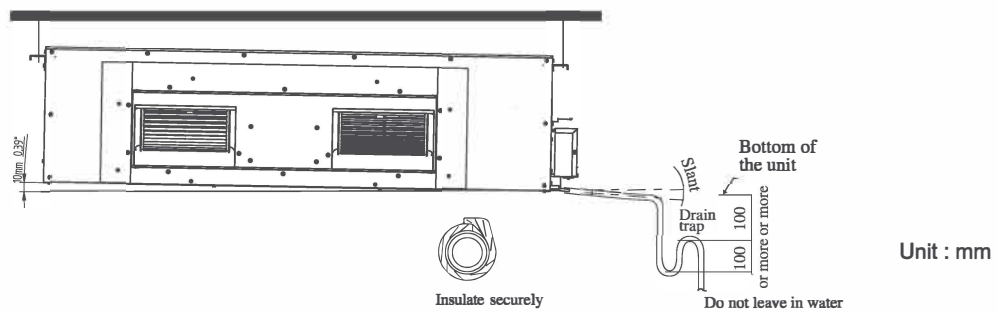
Do not put the indoor unit where there is direct sunlight on unit. The location is suitable for piping and drainage and it must be have a large distance between a door and unit.



All dimensions in mm.

- Important:**
1. While brazing the Liquid and Gas pipe for indoor unit, use wet cloth to prevent the burning of insulation. Insulation must be provided on Liquid and Gas pipe for indoor unit after brazing.
 2. Use M10/M12 rods for installation of Indoor units total Number of installation rods should be in accordance with number of hanger metal provided for installation.

Ceiling Concealed Drain Piping Work



- The drain pipe must be installed as shown in the diagram (see diagram above) to avoid damage caused by leaks and condensation.
- For the best result, keep the piping as short as possible. Slant the piping at an angle to improve the flow.
- Unit installation should be tilted. In range of 10 to 15mm
- The drain pipe slope shall be kept at least 1:100.
- Ensure the drain pipe is securely insulated.
- It is necessary to provide a drain trap in the drain outlet to relieve pressure that exists within the unit compared to the outside atmospheric pressure when the unit is operating. The drain trap is to avoid possibility of splashes or an odour.
- Keep pipes as straight as possible for easy cleaning and to prevent the accumulation of dirt and debris.
- Conduct a water drainage test after the installation is completed. Make sure that the drainage flow is smooth.
- In humid environments, use an extra drain pan to cover the entire area of indoor unit.

3. INSTALLATION OF THE OUTDOOR UNIT

Location For Installation

Install the outdoor unit in such way that air distributed by the outdoor unit cannot be drawn in again (as in the case of short cycling of discharge air). Allow sufficient space for maintenance around the unit.

Select the coolest possible place where intake air should not be higher than the outside temperature (maximum 48°C).

Ensure that there are no obstruction of air flow into or out of the unit. Remove obstacles which block air intake or discharge.

When two or more outdoor units are installed in a location, they must be positioned such that one unit will not be taking the discharge air from another.

This also applies when two or more units are installed one above the other. The all units must face the same direction, or opposite direction (back to back), such that air short cycling does not occur.

The location must be well ventilated, so that the unit can draw and distribute plenty of air.

A place capable of bearing the weight of the outdoor unit and isolating noise and vibration.

A place protected from direct sunlight. Otherwise use an awning for protection, if necessary.

A place where smooth drainage of rain water and water formed by defrosting is acceptable.

A place where the unit will not be buried in snow.

A place where air outlet port is not exposed to strong wind.

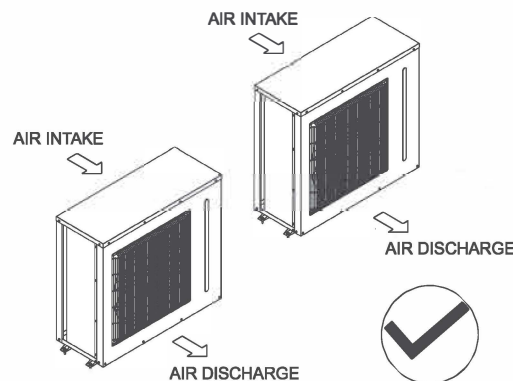
A place where the air discharge and operating sound level will not annoy the neighbours.

The location must not be susceptible to dust or oil mist.

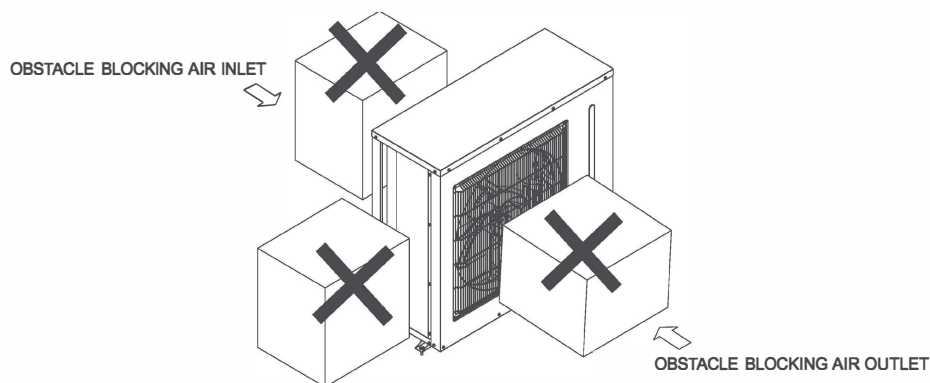
Location For Installation Of The Condensing Units

As condensing temperature rises, evaporating temperature rises and cooling capacity drops. In order to achieve maximum cooling capacity, the location selected should fulfill the following requirements:-

- a) Install the condensing (outdoor) unit in a way such that hot air distributed by the outdoor condensing unit cannot be drawn in again (as in the case of short cycling of hot discharge air). Allow sufficient space for maintenance around the unit.



- b) Ensure that there is no obstruction of air flow into or out of the unit. Remove obstacle which block air intake or discharge.



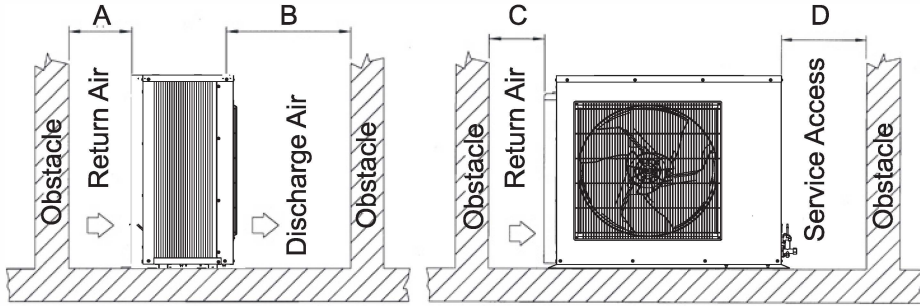
- c) The location must be well ventilated, so that the unit can draw and distribute plenty of air thus lowering the condensing temperature.
- d) A place capable of bearing the weight of the outdoor unit and isolating noise and vibration.
- e) A place protected from direct sunlight. Otherwise use an awning for protection, if necessary.
- f) A place where the hot air discharge and operating sound level will not annoy the neighbours.
- g) The location must not be susceptible to dust or oil mist.

Caution: If the condensing unit is operated in an atmosphere containing oils (including machine oils), salt (coastal area), sulphide gas (near hot spring, oil refinery plant), such substances may lead to failure of the unit.

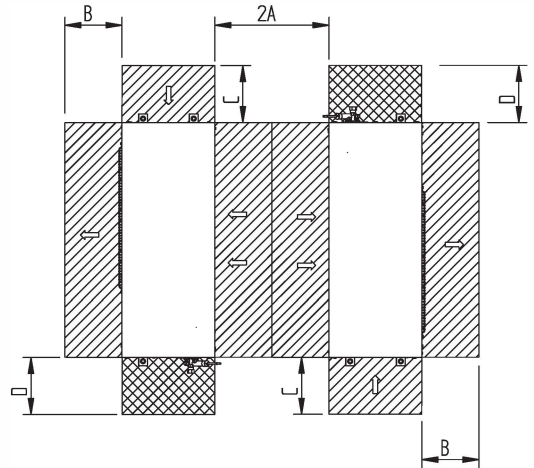
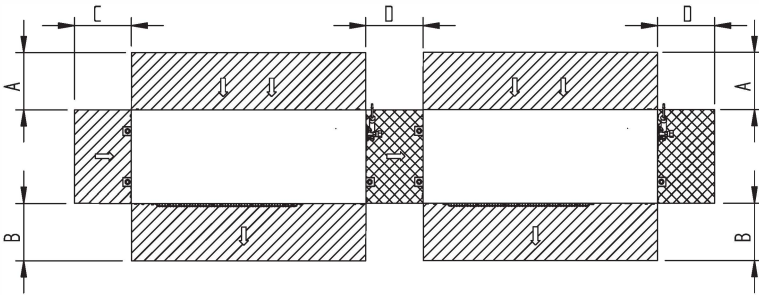
INSTALLATION CLEARANCE

When two or more outdoor units are installed in a location, they must be positioned such that one unit will not be taking the hot discharge air from another to avoid hot air short cycling. This also applies when two or more units are installed one above the other. Below are the installation clearance guidelines:

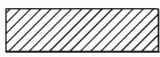

| Model | RZR200AY16 | RZR300AY16 | RZR400AY16 |
|--------|------------|------------|------------|
| A (mm) | 500 | 500 | 700 |
| B (mm) | 750 | 750 | 1000 |
| C (mm) | 1200 | 1200 | 1200 |
| D (mm) | 1000 | 1000 | 1000 |



Horizontal air discharge

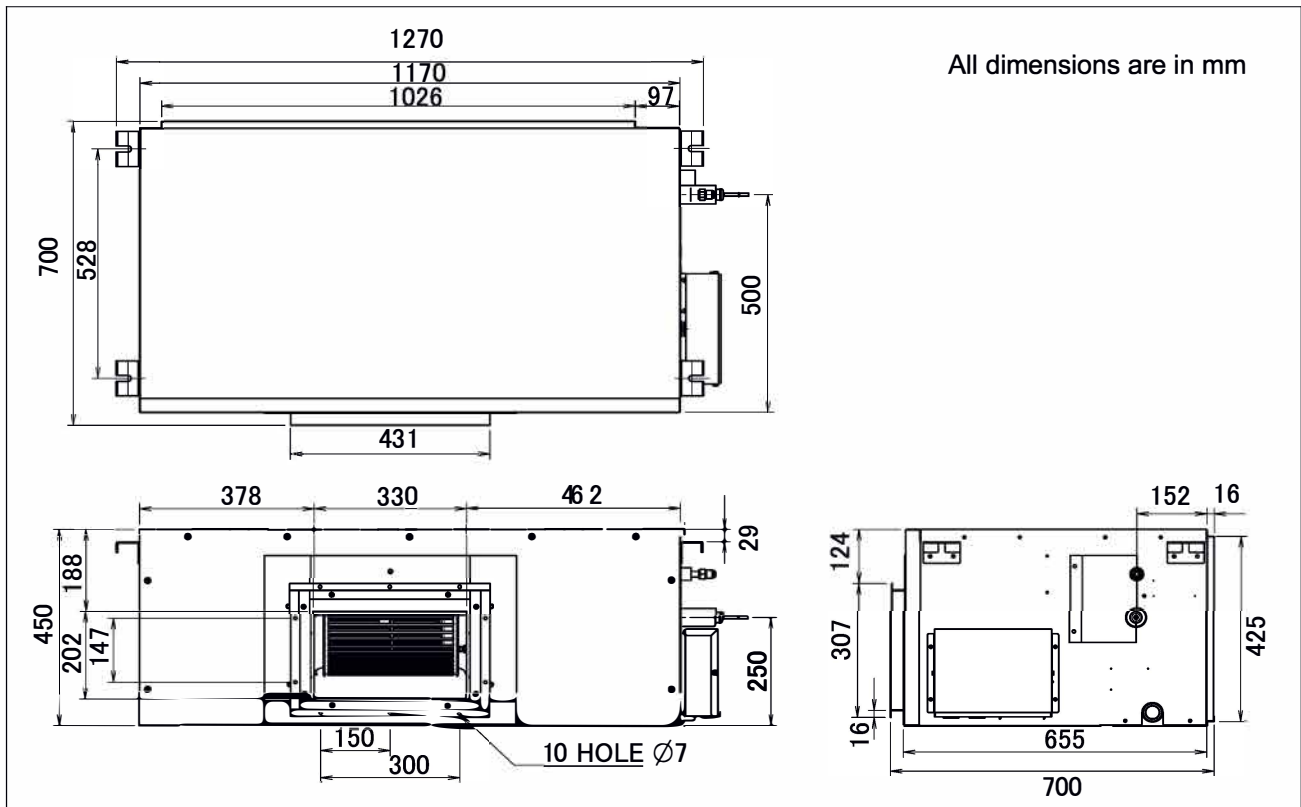


LEGEND

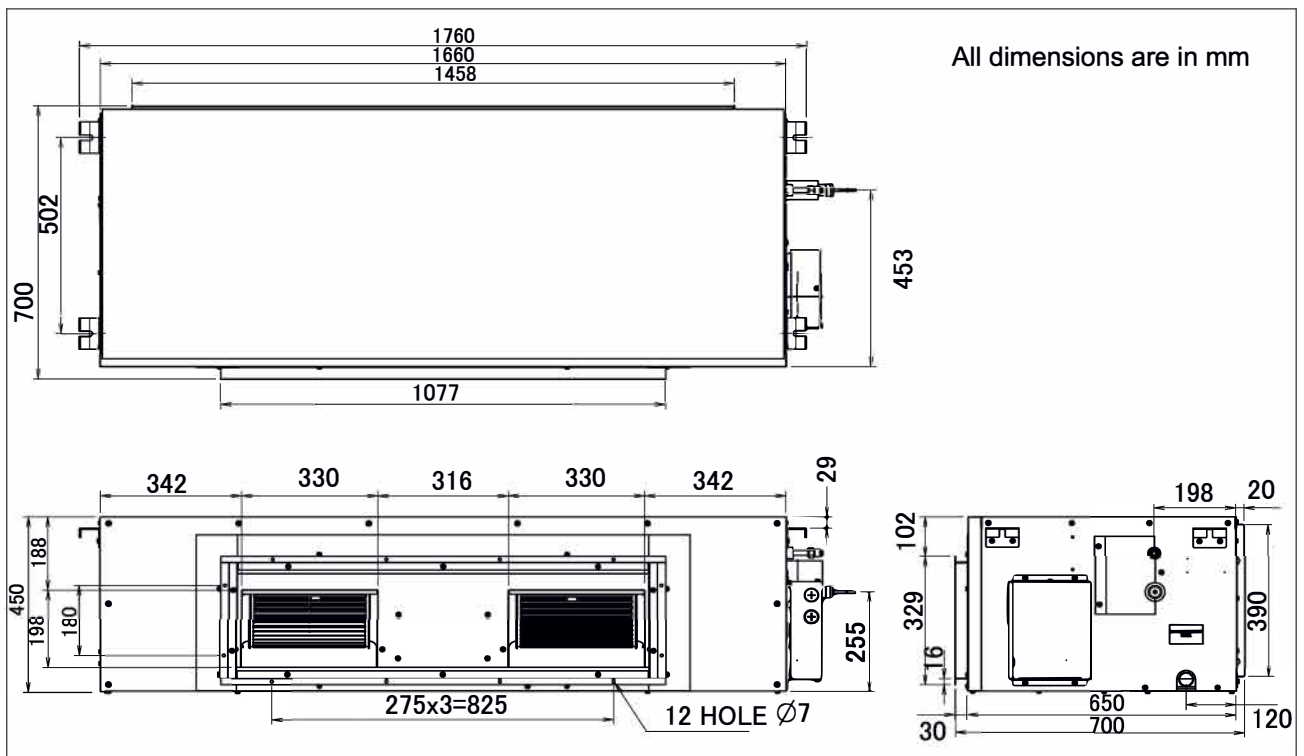
-  SPACE FOR AIR FLOW
-  SPACE FOR SERVICE

4. OUTLINE AND DIMENSIONS

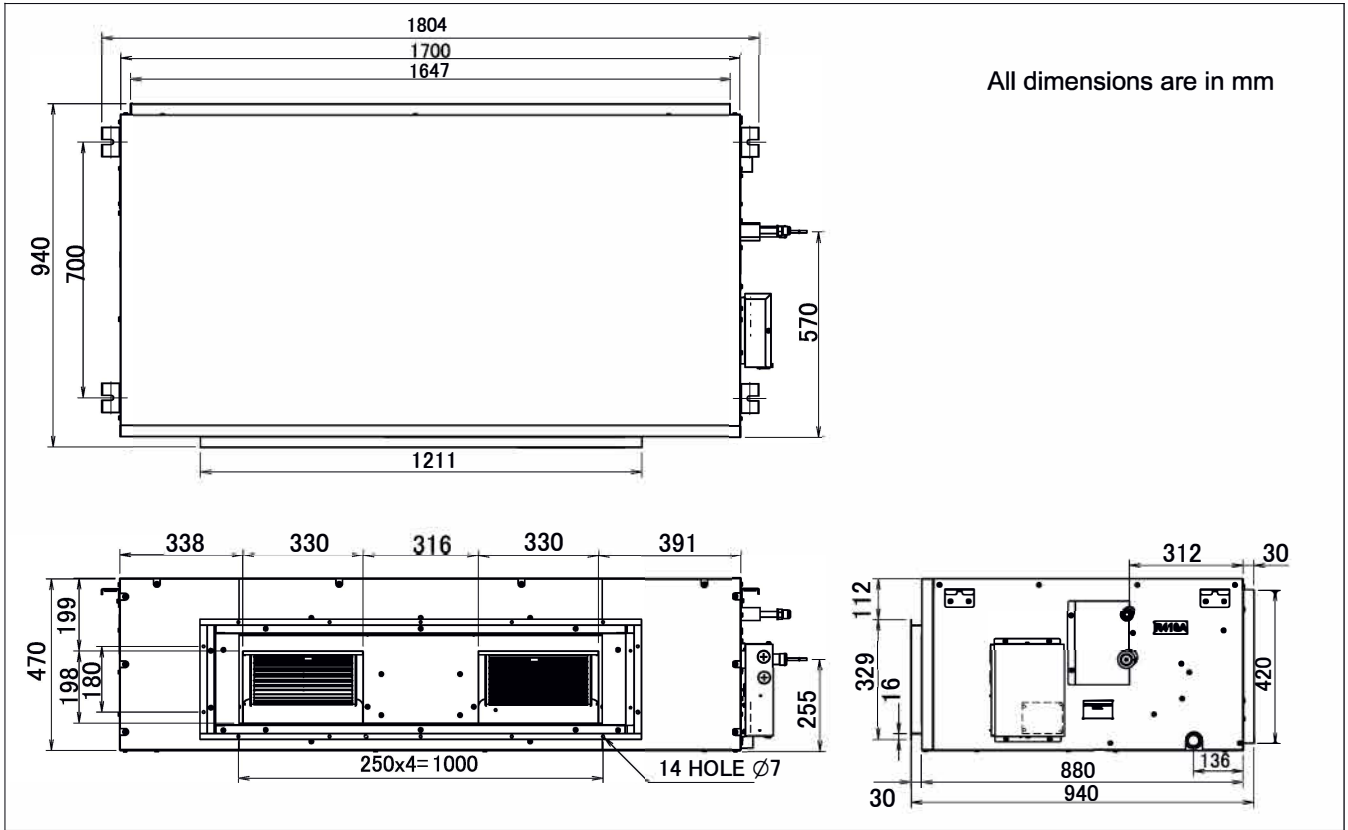
Indoor Unit FDKR200AV16



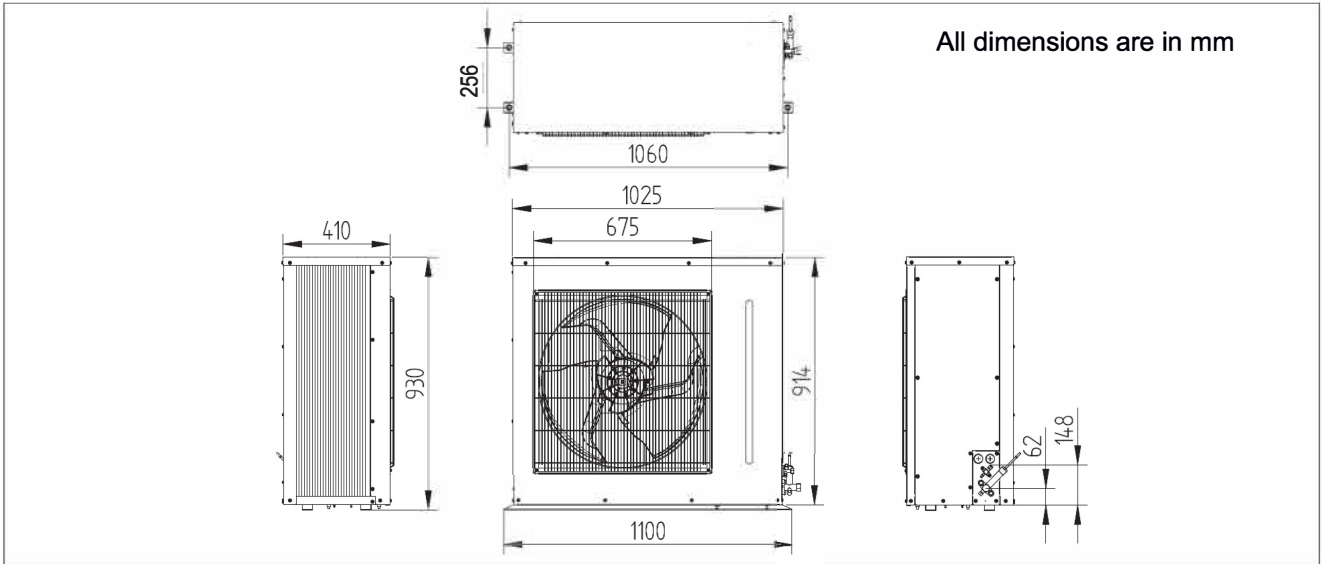
Indoor Unit FDKR300AV16



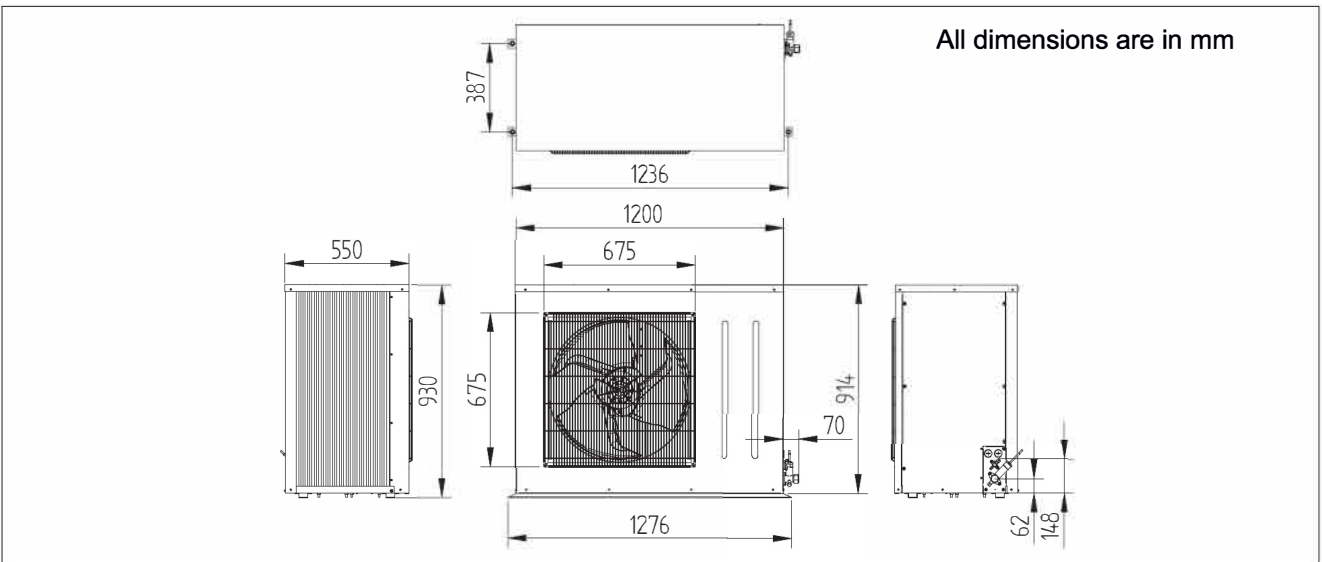
Indoor Unit FDKR400AV16



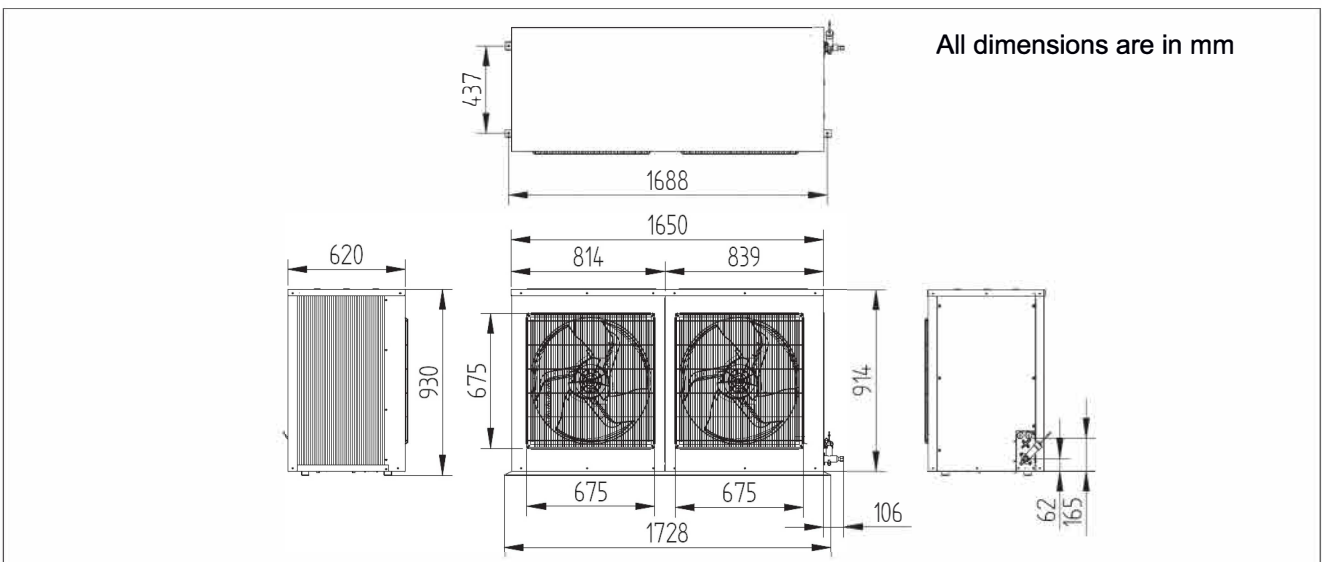
Outdoor Unit RZR200AY16 Horizontal Air Discharge



Outdoor Unit RZR300AY16 Horizontal Air Discharge



Outdoor Unit RZR400AY16 Horizontal Air Discharge



5. REFRIGERANT PIPING

Maximum Pipe Length And Maximum No. Of Bends

When the pipe length becomes too long, both the capacity and reliability will drop and as the no. of bends increases, system piping resistance to the refrigerant flow increases, thus lowering the capacity. As a result the compressor may fail. Always choose the shortest path and follow the recommendations as tabulated below:-

Field piping

To ensure satisfactory operation and performance, the following points should be noted for the field piping arrangements of the complete refrigerant cycle.

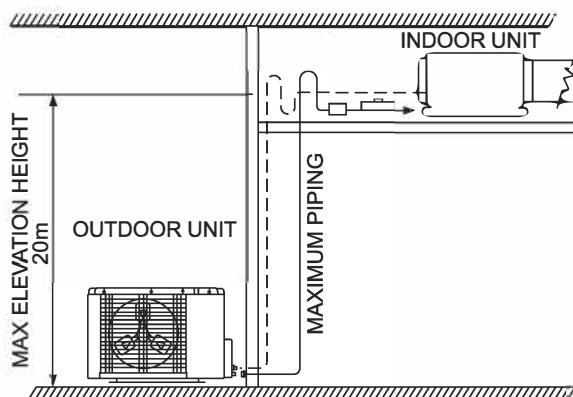
- a) Liquid loops or oil traps must be provided according to the position of the outdoor and the indoor units (depending on whether the indoor unit is above or below the outdoor unit)

Always choose the shortest piping path and follow the recommendations as shown below:

| Model | Max. Elevation, m (ft.) | Max. Total Length, m (ft.) | Accumulator Liquid holding capacity (ltr.) | Max. of Bends |
|------------|-------------------------|----------------------------|--|---------------|
| | | With Accumulator | | |
| RZR200AY16 | 20 (65.6) | 40 (131.2) | 4.8 | 8 |
| RZR300AY16 | | 40 (131.2) | 5.27 | |
| RZR400AY16 | | 40 (131.2) | 8.4 | |

Caution:

1. Our guarantee on performance of our air-conditioners is strictly revoked if the height, length and/or the number of bends of the refrigerant piping system installed is beyond the limit above.
2. Bendings must be carefully made so as not to crush the pipe. Use a pipe bender to bend a pipe as far as possible.



Field Connection pipe size detail

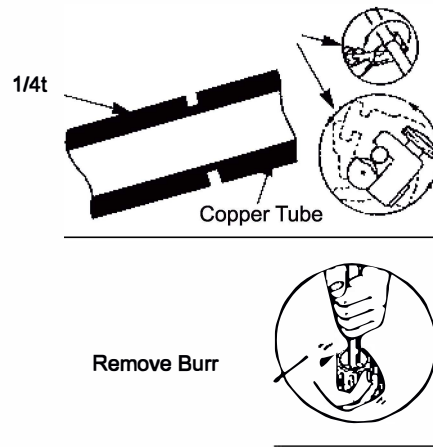
| Indoor | Liquid Pipe | Gas Pipe | Outdoor | Liquid Pipe | Gas Pipe |
|-------------|-------------|----------|------------|-------------|----------|
| FDKR200AV16 | 1/2" | 7/8" | RZR200AY16 | 1/2" | 7/8" |
| FDKR300AV16 | 1/2" | 1-1/8" | RZR300AY16 | 1/2" | 1-1/8" |
| FDKR400AV16 | 5/8" | 1-1/8" | RZR400AY16 | 5/8" | 1-1/8" |

Precautions on refrigerant piping

- i. Do not allow anything other than the designated refrigerant to get mixed into the refrigerant cycle, such as air, nitrogen, etc. If any refrigerant gas leaks while working on the unit, ventilate the room thoroughly right away.
- ii. Use R410A only when adding refrigerant.
- iii. Installation tools: Make sure to use installation tools (gauge manifold, charge hose, etc.) that are exclusively use for R410A installations to withstand the pressure and to prevent foreign materials (e.g. mineral oils and moisture) from mixing into the system.

Piping Works & Brazing Technique

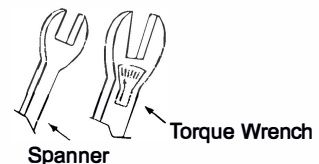
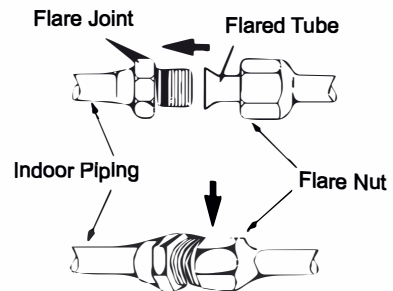
- Do not use contaminated or damaged copper tubing. If any pipings, evaporator or condenser had been exposed or had been opened for 15 seconds or more, then vacuum and purge with field supplied refrigerant. Generally, do not remove plastic, rubber plugs and brass nuts from the valves, fittings, tubings and coils until it is ready to connect suction or liquid line into valves or fittings.
- If any brazing work is required, ensure that the nitrogen gas is passed through coil and joints while the brazing work is being done. This will eliminate soot formation on the inside walls of the copper tubings.
- Cut the pipe stage by stage, advancing the blade of the pipe cutter slowly. Extra force and deep cut will cause more distortion on the pipe and thus extra burr. See figure.
- Remove burrs from cut edges of the pipes with remover as shown in the figure. Hold the end of the pipe downwards to prevent metal chips from entering the pipe.



Piping Connection To The Units

- Align the center of the piping and tighten the flare nut sufficiently with fingers.
- Finally, tighten the flare nut with the torque wrench until the wrench clicks.
- When tightening the flare nut with the torque wrench, ensure that the tightening direction follows the arrow indicated on the wrench.

| Pipe Size (mm/in) | Torque (Nm) |
|-------------------|-------------|
| 6.35 (1/4") | 18 |
| 9.53 (3/8") | 42 |
| 12.7 (1/2") | 55 |
| 15.88 (5/8") | 65 |
| 19.05 (3/4") | 78 |

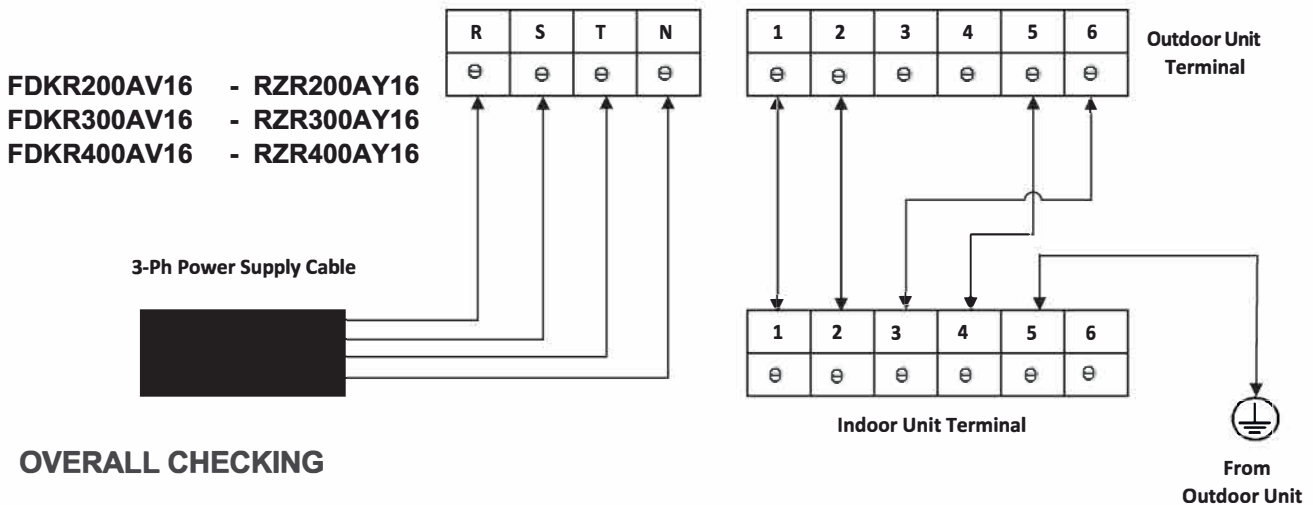


6. ELECTRICAL WIRING WORK

IMPORTANT: * These values are for information only, they should be checked and selected to comply with the local and/or national codes and regulations. They are also subjected to the type of installation and size of conductors.

** The appropriate voltage range should be checked with data label on the unit.

| Model | Indoor unit Outdoor unit | FDKR200AV16 RZR200AY16 | FDKR300AV16 RZR300AY16 | FDKR400AV16 RZR400AY16 |
|---|-----------------------------|----------------------------------|---------------------------|---------------------------|
| Voltage Range ** | Indoor unit Outdoor unit | 230V/1Ph/50Hz⊕ 415V/3Ph/50Hz⊕ | | |
| Power supply cable size* mm ² | | 2.5 | 4.0 | 6.0 |
| No. of Conductors | | 5.0 | 5.0 | 5.0 |
| Interconnection cable size* mm ² | | 1.0 | 1.0 | 1.5 |
| No. of Conductors | | 7.0 | 7.0 | 7.0 |
| Recommended fuse* A | | 20 | 32 | 40 |



OVERALL CHECKING

Ensure the following, in particular:-

1. The unit is mounted solidly and rigid in position.
 2. Piping and connections are leak proof after charging.
 3. Proper wiring has been done (see fig below).
- Drainage check:- Pour some water into left side of drain pan (drainage are in right side of unit).

• Test run:

1. Conduct a test run after water drainage test and gas leakage test.

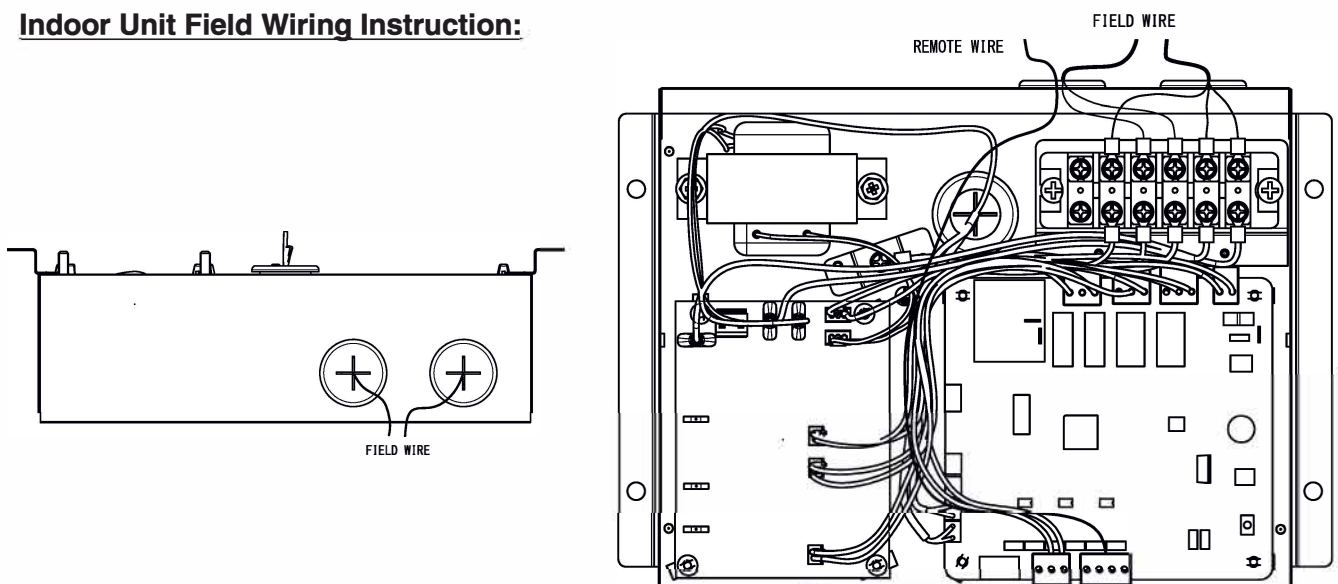
2. Watch out for the following:-

- a) Is the electric plug firmly inserted into the socket?
- b) Is there any abnormal sound from unit?
- c) Is there smooth drainage of water?

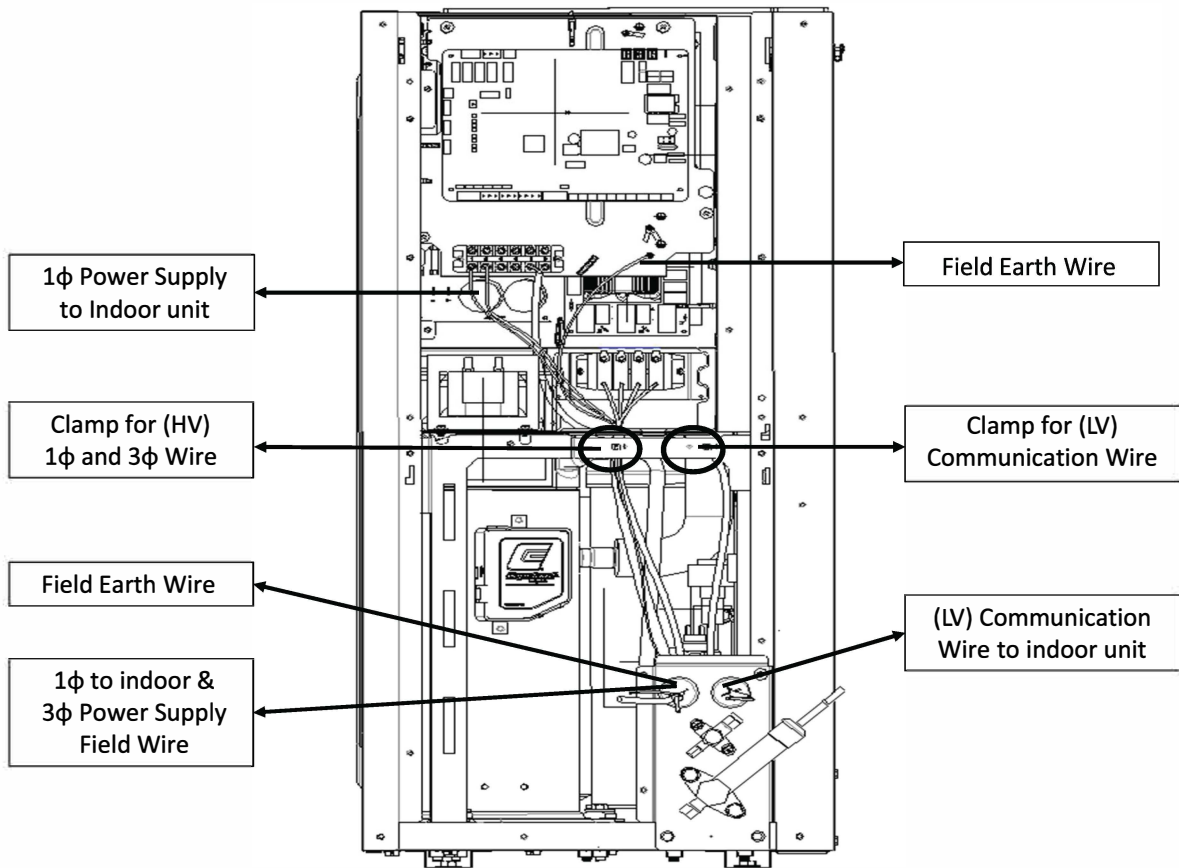
• Check that:

1. Condenser fan is running, with warm air blowing off the condensing unit.
2. Evaporator blower is running and discharge cool air.
3. The remote controller incorporates a 3 minute delay in the circuit. Thus, it requires about 3 minutes before the outdoor condensing unit can start up.

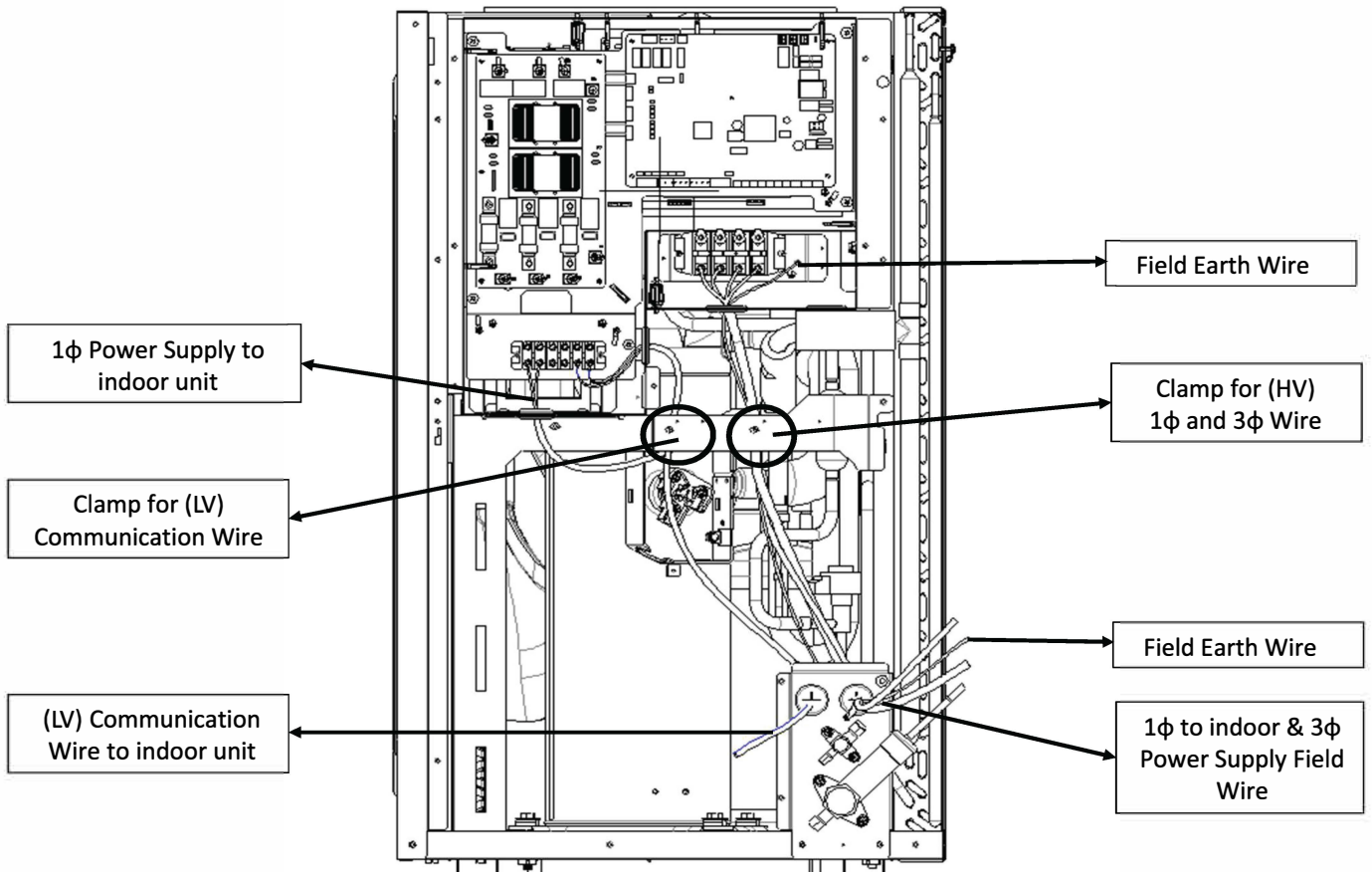
Indoor Unit Field Wiring Instruction:



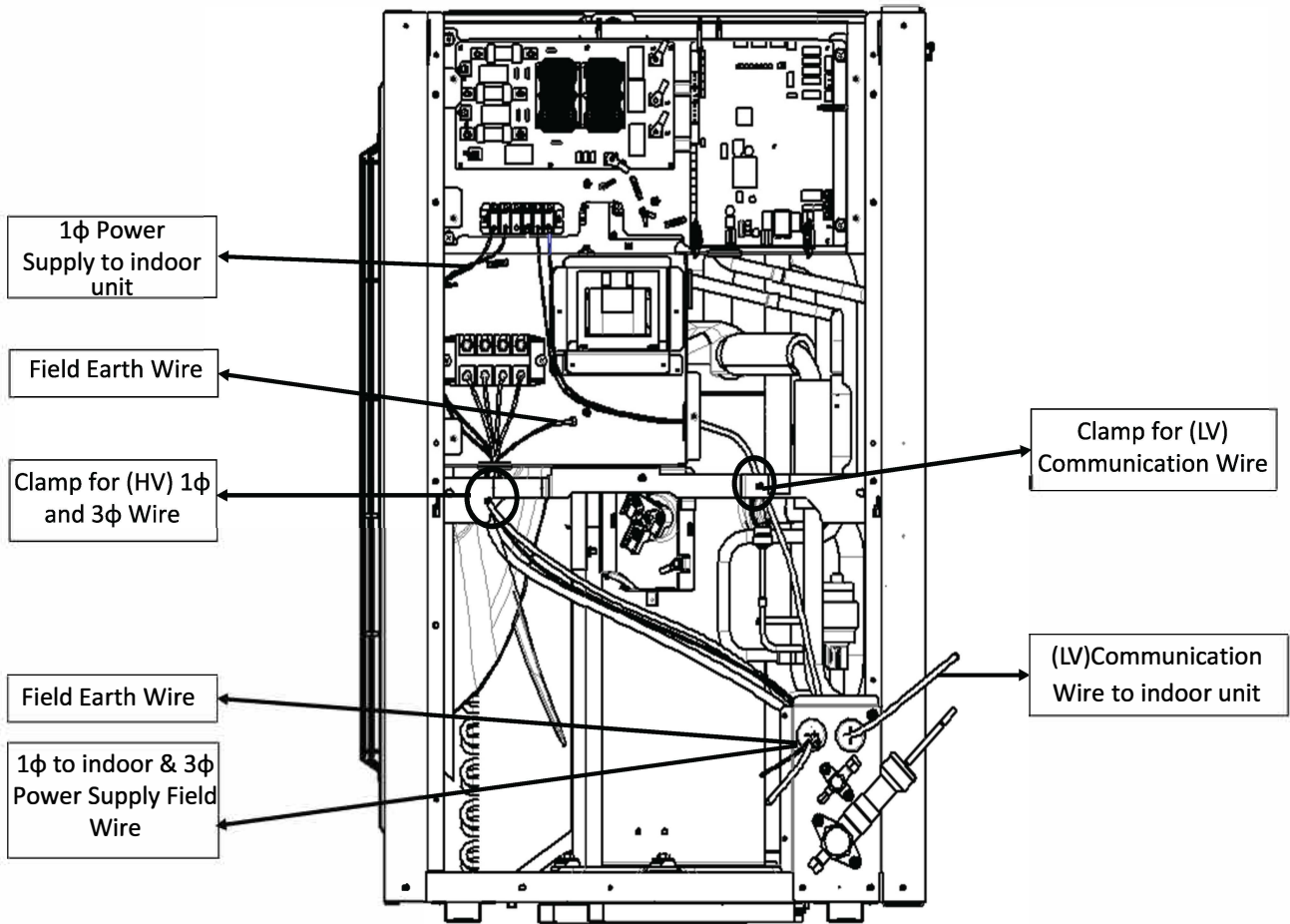
5.5Tr Outdoor Unit Field Wiring Instruction:



8.5Tr Outdoor Unit Field Wiring Instruction:



11Tr Outdoor Unit Field Wiring Instruction:



Note :

1. Minimum 25mm or more gap to be maintained between High Voltage(HV) and Low Voltage (LV) wires during field installation.
2. For Indoor to outdoor communication, use only 2 core shielded cable of 0.5 mm² for field wiring.

7. OIL REFILL CHARGE GUIDELINES

1. In case of majority Oil spill/Loss by Leakage in field -----

Remove all remaining oil from the compressor. Add fresh oil charge in the compressor as per below table.

| Indoor | Outdoor | Refill oil charge ltr/30m pipe length |
|-------------|------------|--|
| FDKR200AV16 | RZR200AY16 | 1.656 |
| FDKR300AV16 | RZR300AY16 | 2.395 |
| FDKR400AV16 | RZR400AY16 | 2.632 |

OIL REMOVING PROCEDURE :

1. To remove all remaining oil from the compressor, first remove compressor from the system.
Take it out side & tilt in such a way so that all oil can come outside from suction port.

Note : Check quality of oil, if oil color is clear (not black or turbide), use same oil for refilling & top up fresh oil to maintain total refill quantity as per above table. If oil color is not clear, do not use this oil, refill with fresh oil only.

OIL REFILL PROCEDURE :

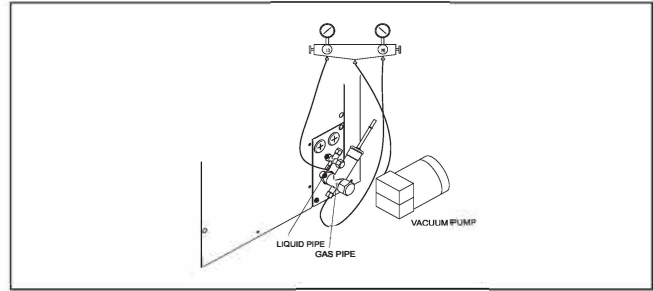
1. Charge oil through the suction port of compressor.

8. VACUUMING AND CHARGING

Vacuumping is necessary to eliminate all moisture and air from the system. The outdoor unit is provided with valve fittings.

Vacuumping

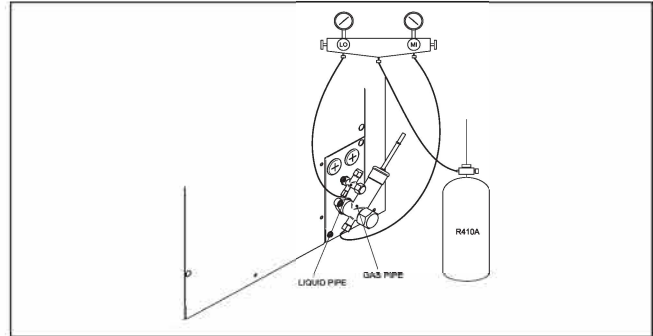
Before vacuumping, perform leak check for refrigeration circuit. After the system piping are properly connected, connect the flexible hoses to the correct charging nipples as shown in the diagram. Ensure that flexible hose from charging nipples are connected to the vacuum pump via standard servicing valves and pressure gauges (gauge manifold). Vacuum the air conditioner system to at least 500 microns Hg. Do not start the unit when the system is engaged in vacuumping.



Charging

Before recharging, the vacuum must be held at 500 microns Hg for at least 15 minutes, then break vacuum by charging R-410A refrigerant. Operate the unit for 15 minutes and ensure the refrigerant charge is of correct amount as specified below.

After ensuring the system is correctly charged, remove flexible hose from charging nipples and replace caps.



Precautions while charging

- i. Refrigerant cannot be charged until field wiring has been completed.
- ii. Refrigerant may only be charged after performing the leak test and vacuum drying.
- iii. When charging a system, care shall be taken that its maximum permissible charge is never exceeded, in view of danger of liquid hammer.
- iv. Charging with an unstable substance may cause explosions and accidents, so always ensure that the appropriate refrigerant R410A is charged.

SYSTEM REFRIGERANT CHARGE LEVEL GUIDELINES

Cooling only

| Indoor | Outdoor | Liquid Pipe | Gas Pipe | Refrigerant Charge (kg/7.5m pipe length) |
|-------------|------------|-------------|----------|--|
| FDKR200AV16 | RZR200AY16 | 1/2" | 7/8" | 4.0 |
| FDKR300AV16 | RZR300AY16 | 1/2" | 1-1/8" | 4.2 |
| FDKR400AV16 | RZR400AY16 | 5/8" | 1-1/8" | 7.6 |

* Keep minimum 7.5m pipe length during installation.

ADDITIONAL CHARGE

Based on liquid pipe size per meter length:

| Liquid Pipe Size, inch | Additional Charge, kg/meter |
|------------------------|-----------------------------|
| 1/2" | 0.09 |
| 5/8" | 0.114 |

Note: The additional refrigerant charge amount recommended is a guideline for longer piping application. The actual charge required may be different from the guideline due to different application and variation in site conditions.

9. SPECIAL PRECAUTIONS WHEN CHARGING UNIT WITH SCROLL COMPRESSORS

These precautions are intended for use with scroll compressors only with R22, R407C, R134A, R404A, R507 and R410A refrigerants but are not applied to reciprocating compressors or competitive scroll compressors.

Scroll compressors have a very high volumetric efficiency and quickly pump a deep vacuum if there is insufficient refrigerant in the system or if refrigerant is added too slowly. Operation with low suction pressure will quickly lead to very high discharge temperatures. While this process is happening, the scrolls are not being well lubricated – scrolls depend on the oil mist in the refrigerant for lubrication. A lack of lubrication leads to high friction between the scroll flanks and tips and generates additional heat. The combination of heat of compression and heat from increased friction is concentrated in a small localized discharge area where temperatures can quickly rise to more than 300°C. These extreme temperatures damage the Scroll spirals and the orbiting Scroll bearing. This damage can occur in less than one minute especially on larger compressors. Failure may occur in the first few hours or the damage done during field charging may show up some time later.

Other typical field charging problems include undercharging, overcharging, moisture or air in the system etc. In time each one of these problems can cause compressor failure.

Minimal equipment is required for field charging. The minimum equipment required to do a satisfactory job is:-

| | |
|-----------------------|--------------|
| Set of service gauges | Vacuum gauge |
| Hoses | Scales |
| Vacuum pump | Thermometer |

The proper refrigerant charge should follow the volume as recommended by manufacturer and recommendation should be followed by the installer.

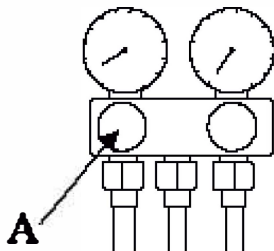
1. Charging procedures – Single phase compressors

Evacuate the system to 500 microns Hg (67Pa). To reduce evacuation time, use short, large diameter hoses and connect to unrestricted service ports on the system. Quality of vacuum cannot be determined by time – a reliable vacuum gauge must be used. (eg. electronic vacuum gauge)

Turn the refrigerant cylinder upside down, purge the charging hose and charge liquid through the liquid line charging port until refrigerant no longer flows or until the correct charge has been weighed in. If additional charge is required, start the system and slowly bleed liquid into the suction side until the system is full.

It is recommended to charge liquid refrigerant in a CONTROLLED manner into the suction side until the system is full. This recommendation does not hold true for reciprocating compressors where liquid charging into the suction side could cause severe damage.

Carefully monitor the suction and discharge pressures – ensure that the suction pressure does not fall below 25 psig (1.7 bar) at any time during the charging process.



There are many ways of charging liquid in a “controlled manner” into the suction side:-

1. Use valve A on the manifold gauge set
2. Use the valve on the refrigerant cylinder
3. Charge through a Shredder valve
4. Use a hose with a Shredder valve depressor
5. Charge into the suction side at some distance from the compressor

2. Charging procedures – Three phase compressors

The fundamental procedure is the same as for single phase models but the compressor can run in the wrong direction on starting. If this happens reverse any two phases and start again. Short term reverse rotation will not damage the compressor.

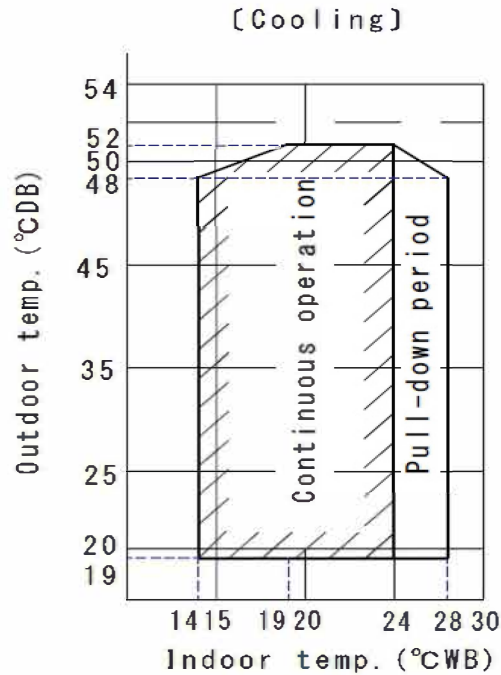
All Scroll Compressors have internal discharge temperature protectors which are very effective in preventing dangerously high discharge temperatures during charging. The protection module will trip and lock the compressor out for 30 minutes. It is not normally necessary to wait 30 minutes for the module to reset. When the compressor has cooled down, the module can be reset by breaking the power supply to the control circuit. Very often the serviceman does not understand why the module tripped and uses a jumper wire to bypass it. He continues to charge the system and removes the jumper when charging is complete. The compressor may or may not run with the protector back in the circuit but it is certain that the compressor has been damaged and premature failure is inevitable.

Caution for refrigerant leaks

This system uses R410A as refrigerant . R410A itself is an entirely safe, non toxic, non- combustible refrigerant . Nevertheless care must be taken to ensure that air conditioning facilities are installed in a room which is sufficiently large. This assures that the maximum concentration level of refrigerant gas is not exceeded, in the unlikely event of major leak in the system and this in accordance to the local applicable regulations and standards.

10. STANDARD OPERATING CONDITIONS

Cooling only



NOTES:

The graph is based on the following conditions:

- Equivalent piping length: 7,5m
- Level difference : 0m
- Air Flow Rate : High

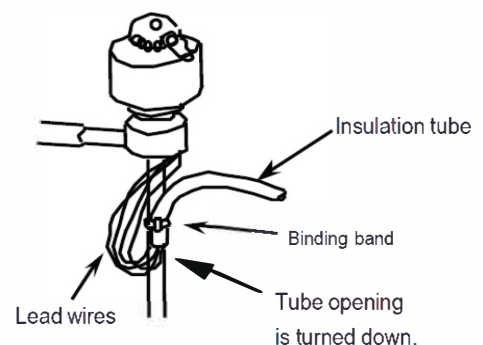
AUTO RANDOM RE-START FUNCTION

If there is a power cut when the unit is operating, it will automatically resume the same operating mode when the power is restored. (Applicable only to units with this feature)

11. SERVICE AND MAINTENANCE

| Service Parts | Maintenance Procedures | Period |
|--------------------------|--|---|
| Indoor air filter | <ol style="list-style-type: none"> 1. Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40°C) with a neutral cleaning detergent. 2. Rinse the filter well and dry before placing it back onto the unit. 3. Do not use gasoline, volatile substances or chemicals to clean the filter. | At least once every 2 weeks. More frequently if necessary. |
| Indoor unit | <ol style="list-style-type: none"> 1. Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40°C) and a neutral detergent solution. 2. Do not use gasoline, volatile substances or chemicals to clean the indoor unit. | At least once every 2 weeks. More frequently if necessary. |

Note: In case of EXV replacement in field installed units, EXV wire insulation tube opening should be always in downward direction to avoid water droplets entering into insulation tube.



OPERATION MANUAL

1. SAFETY PRECAUTIONS

To gain full advantage of the air conditioner's functions and to avoid malfunction due to mishandling, please read this operation manual carefully before use.

Read the precautions thoroughly to avoid misuse of the equipment.

This product comes under the term "appliances not accessible to the general public".

This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons. 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 only be done by persons described in manual.

The appliance is not intended for use by unattended young children or persons who are incompetent to operate air conditioners. It may result in injury or electric shocks.

- The precautions described herein are classified as **WARNING** and **CAUTION**. they both contain important information regarding safety. Be sure to observe all precautions without failure.
- There are two kinds of safety precaution and tips listed in the following.

⚠ WARNING.....Indicates a potential hazardous situation which, if not avoided,could result in death or serious injury.

⚠ CAUTIONIndicates a potential hazardous situation which,if not avoided,could result in minor or moderate injury.

- After reading, keep this manual in a convenient place so that you can refer to it whenever necessary. If the equipment is transferred to a new user, be sure also to hand over the manual.

■ DISPOSAL REQUIREMENTS



Disposal requirements

Your air conditioning product is marked with this symbol. This means that electrical and electronic products shall not be mixed with unsorted household waste.

Do not try to dismantle the system yourself: the dismantling of the air conditioning system, treatment of the refrigerant, of oil and of other parts must be done by qualified installer in accordance with relevant local and national legislation.

Air conditioners must be treated at a specialized treatment facility for reuse, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. Please contact the installer or local authority for more information.

Batteries must be removed from the remote controller and disposed of separately in accordance with relevant local and national legislation.

⚠ WARNING

- **Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.**
- **The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).**
- **Do not pierce or burn.**
- **Be aware that refrigerants may not contain an odour.**
- **Floor area required for installation of the equipment, refer to the installation manual of the outdoor unit.**
- **Do not place burners or heaters in places exposed to the airflow from the unit as this may impair combustion of the burner or heater.**
- **When the air conditioner is malfunctioning (giving off a burning odour, etc.), turn off the power to the air conditioner and contact your local dealer.**

Continued operation under such circumstances may result in a failure, electric shocks or fire.

- **Consult your local dealer regarding modification, repair and maintenance of the air conditioner.** Improper workmanship may result in water leakage, electric shocks or a fire. Be sure to use fuses with the correct ampere reading.

- **Be sure to use fuses with the correct ampere reading.**
Do not use improper fuses, copper or other wiring as a substitute, as this may result in electric shocks, fire, damage to the air conditioner.
- **Consult your local dealer if the air conditioner submerges owing to a natural disaster, such as flood or typhoon.**
Do not operate the air conditioner in that case, or otherwise a malfunction, electric shocks, or fire may result.
- **Start or stop the air conditioner with the remote controller. Never use the power circuit breaker for this purpose.** Otherwise, it may cause fire or water leakage. Furthermore, if an automatic restart control is provided against power failure and the power is recovered, the fan will rotate suddenly and may cause injury.
- **Do not use the air conditioner in the atmosphere contaminated with oil vapor, such as cooking oil or machine oil vapor.**
Oil vapor may cause crack damage to the air conditioner, electric shocks, or fire.
- **Do not use flammable materials (e.g., hairspray or insecticide) near the air conditioner. Do not clean the air conditioner with organic solvents such as paint thinner.**
The use of organic solvents may cause crack damage to the air conditioner, electric shocks, or fire.
- **Do not use the air conditioner in places with excessive oily smoke, such as cooking rooms, or in places with flammable gas, corrosive gas or metal dust.**
Using the air conditioner in such places may cause a fire or air conditioner failures.
- **Beware of a fire in case of refrigerant leakage.**
If the air conditioner is not operating correctly, i.e. not generating cool or warm air, refrigerant leakage could be the cause. Consult your local dealer for assistance. The refrigerant used for the air conditioner is safe and normally does not leak. However, if the refrigerant leaks and gets in contact with a naked burner, heater or cooker, it may generate hazardous compounds. Turn off the air conditioner and call your local dealer. Turn on the air conditioner after the qualified service person makes sure to confirm that the leakage is repaired.
- **Do not place objects, including rods, your fingers, etc., in the air inlet or outlet.**
Injury may result due to contact with the air conditioner's high speed fan blades.
- **Consult your local dealer regarding cleaning the inside of the air conditioner.**
Improper cleaning may cause breakage of plastic parts, water leakage and other damage as well as electric shocks.
- **Be aware that prolonged, direct exposure to cool or warm air from the air conditioner, or to air that is too cool or too warm can be harmful to your physical condition and health. Consult your local dealer about installation work.**
Doing the work yourself may result in water leakage, electric shocks or a fire.
- **Contact professional personnel about attachment of accessories and be sure to use only accessories specified by the manufacturer.**
If a defect results from your own workmanship, it may result in water leakage, electric shocks or a fire .
- **Consult your local dealer regarding relocation and re-installation of the air conditioner.** Improper installation work may result in leakage, electric shocks or a fire.
- **Be sure to earth the air conditioner.**
Do not earth the air conditioner to a utility piping, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks or a fire. A high surge current from lightning or other sources may cause damage to the air conditioner.

- **Be sure to install an earth leakage breaker.**

Failure to install an earth leakage breaker may result in electric shocks or a fire.

- **Be sure to use a dedicated power supply for the air conditioner.**

The use of any other power supply may cause heat generation, a fire, or air conditioner failures.

- **Consult your local dealer regarding what to do in case of refrigerant leakage.**

When the air conditioner is installed in a small room, it is necessary to take proper measures so that the amount of any leaked refrigerant does not exceed the concentration limit in the event of a leakage. Otherwise, this may lead to an accident due to oxygen depletion.

⚠ CAUTION

- **Children should be watched so that they do not play with indoor unit or its remote controller.**

Accidental operation by a child may result in injury or electric shocks.

- **Do not allow a child to mount on the outdoor unit or avoid placing any object on it.**

Falling or tumbling may result in injury.

- **Do not let children play on or around the outdoor unit.**

If they touch the unit carelessly, injury may be caused.

- **Be sure that children, plants or animals are not exposed directly to airflow from the indoor unit, as adverse effects may ensue.**

- **Do not place flammable sprays or operate spray containers near the air conditioner as this may result in a fire.**

- **Do not wash the air conditioner or the remote controller with water, as this may result in electric shocks or fire.**

- **Do not place water containers (flower vases, etc.) on the indoor unit, as this may result in electric shocks or a fire.**

- **Do not put flammable containers, such as spray cans, within 1 m from the air outlet.**

The containers may explode because the warm air from the indoor or outdoor unit will affect them.

- **Turn off the main power switch when the air conditioner is not to be used for prolonged periods.**

When the main power switch is left on, some electrical power (watts) is still consumed even if the air conditioner is not operating. Therefore, switch off the main power switch to save energy. When resuming operation, to ensure smooth running, turn on the main power switch 6 hours before operating the air conditioner again.

- **Do not place objects in direct proximity of the outdoor unit and do not let leaves and other debris accumulate around the unit.**

Leaves are a hotbed for small animals which can enter the unit. Once in the unit, such animals can cause malfunctions, smoke or a fire when making contact with electrical parts.

- **Before cleaning, be sure to stop the air conditioner operation, turn the power circuit breaker off.**

Otherwise, an electric shocks and injury may result.

- **To avoid electric shocks, do not operate with wet hand**

- **Never touch the internal parts of the remote controller.**

Touching certain internal parts will cause electric shocks and damage to the remote controller. Consult your local dealer about checking and adjustment of internal parts.

- **To avoid oxygen deficiency, ensure that the room is adequately ventilated if equipment such as a burner is used together with the air conditioner.**

- **Do not leave the remote controller wherever there is a risk of wetting.**

If water gets into the remote controller there is a risk of electrical leakage and damage to electronic components.

- **Watch your steps at the time of air filter cleaning or inspection.**

High-place work is required, to which utmost attention must be paid.

If the scaffold is unstable, you may fall or topple down, thus causing injury.

- **Do not remove the outdoor unit's outlet side grille.**
The grille protects against the unit's high speed fan, which may cause injury.
- **To avoid injury, do not touch the air inlet or aluminium fins of the air conditioner.**
- **Do not place objects that are susceptible to moisture directly beneath the indoor or outdoor units.**
Under certain conditions, condensation on the unit or refrigerant piping, air filter dirt or drain blockage may cause dripping, resulting in fouling or failure of the object concerned.
- **Do not place heaters directly below the indoor unit, as resulting heat can cause deformation.**
- **Do not place appliances that produce naked flames in places exposed to the airflow from the air conditioner as this may impair combustion of the burner.**
- **Do not block air inlets and outlets.**
Impaired airflow may result in insufficient performance or trouble.
- **Do not use the air conditioner for purposes other than those for which it is intended.**
Do not use the air conditioner for cooling precision instruments, food, plants, animals or works of art as this may adversely affect the performance, quality and/or longevity of the object concerned.
- **Do not install the air conditioner at any place where there is a danger of flammable gas leakage.**
In the event of a gas leakage, build-up of gas near the air conditioner may result in a fire
- **Carry out drain piping properly to ensure complete drainage.**
If drain piping is not carried out properly, drain will not flow out. Then, dirt and debris may be accumulated in the drain piping and may cause water leakage. If it occurs, stop the air conditioner and call your local dealer for assistance.
- **After prolonged use, check the unit stand and its mounts for damage.**
If left in a damaged condition, the unit may fall and cause injury.
- **Do not sit or place objects on the outdoor unit.**
Falling yourself or falling objects could cause injury.
- **Arrange the drain hose to ensure smooth drainage.**
Imperfect drainage may cause wetting of the building, furniture etc.
- **Ensure that the remote controller is not exposed to direct sunlight.**
This will cause discoloration of the LCD display with resulting loss of readability.
- **Do not wipe the controller panel with benzene or other organic solvent.**
This will cause discoloration and/or peeling.
If the panel needs cleaning, use a damp cloth with some water-diluted neutral detergent.
Wipe with a dry cloth afterwards.
- **Never operate remote controller buttons with hard, pointed objects.**
- **Do not pull or twist the remote controller cord.**
This may cause malfunctioning.
- **Do not operate the air conditioner when using a room fumigation type insecticide.**
Fumigation chemicals deposited in the unit could endanger the health of those who are hypersensitive to such chemicals.
- **Take care of scaffolding and exercise caution when working high above ground level.**
- **Do not operate with the control panel lid open.**
If water gets inside the panel, it may result in equipment failure or electric shock.

2. INSTALLATION SITE

Regarding places for installation

- **Is the air conditioner installed at a well ventilated place where there are no obstacles around?**
- **Do not use the air conditioner in the following places.**
 - a. Filled with much mineral oil such as cutting oil.
 - b. Where there is much salt such as a beach area.
 - c. Where sulphured gas exists such as a hot-spring resort.
 - d. Where there are considerable voltage fluctuation such as a factory or plant.
 - e. Vehicles and vessels.
 - f. Where there is much spray of oil and vapour such as a cookery, etc.
 - g. Where there are machines generating electromagnetic waves.
 - h. Filled with acid and /or alkaline steam or vapour.
- **Is a snow protection measure taken?**

For details, consult your local dealer about snow protection hoods, etc.

Regarding places for installation

- **All wiring must be performed by a qualified personnel.**

To do wiring, ask your local dealer. Never do it by yourself.
- **Make sure that a separate power supply circuit is provided for air conditioner and that all electrical work is carried out by qualified personnel according to local laws and regulations.**

Pay attention to running noises too.

- **Are the following places selected ?**
 - a. A place that can sufficiently withstand the mass of the air conditioner with less running noises and vibrations.
 - b. A place where the hot wind discharged from the air outlet of the outdoor unit and the running noises do not cause a nuisance to neighbours.
- **Are you sure that there are no obstacles near the air outlet of the outdoor unit ?**

Such obstacles may result in declined performance and increased running noises.
- **If abnormal noises occur in use, stop the operation of the air conditioner, consult your local dealer.**

Regarding drainage of drain piping

- **Is the drain piping carried out properly to ensure complete drainage?**

If drain piping is not carried out properly, dirt and debris may be accumulated in the drain piping and cause water leakage. If it occurs, stop the air conditioner and consult with your local dealer for assistance.

System relocation

- Consult your Daikin dealer about remodelling and relocation.

3. OPERATION PROCEDURE

- Operating procedure varies with heat pump type and cooling only type. Contact your local dealer to confirm your system type.
- To protect the air conditioner, turn on the main power switch 6 hours before operation.
- Do not shut off the power supply during seasonal use of the air conditioner.

This is required in order to activate the air conditioner smoothly.
- If the main power supply is turned off during operation, operation will restart automatically after the power turns back on again.

Read the operation manual attached to the remote controller.

4. OPERATION CHARACTERISTICS

■ CHARACTERISTICS OF THE COOLING OPERATION

- If the COOLING OPERATION is used when the indoor temperature is low, frost forms on the heat exchanger of the indoor unit. This can decrease the cooling capacity. In this case, the air conditioner automatically switches to the DEFROST OPERATION for a while. During the DEFROST OPERATION, the low fan speed is used to prevent the discharge of melt water. (The remote controller displays the fan speed that is set.)
- When the outdoor temperature is high, it takes some time until the indoor temperature reaches the set temperature.

5. OPERATION RANGE

If the temperature or the humidity is beyond the following conditions, safety devices may work and the air conditioner may not operate, or sometimes, water may drop from the indoor unit.

Observe the following precautions to ensure the air conditioner operates.

| OUTDOOR UNIT | INDOOR | | OUTDOOR TEMPERATURE | | |
|--------------|-------------|----------|---------------------|----|----------|
| | TEMPERATURE | HUMIDITY | | | |
| RZR200AY16 | DB | 19 to 35 | 80% or below | DB | 19 to 52 |
| RZR300AY16 | | | | | |
| RZR400AY16 | WB | 14 to 24 | | | |

DB: Dry bulb temperature (°C)

WB: Wet bulb temperature (°C)

6. OPTIMUM OPERATION

- Prevent direct sunlight from the window by using curtains or blinds during the COOLING OPERATION.
- Keep doors and windows closed. If the doors and windows remain open, room air will flow out and decrease the effect of cooling and heating.
- Never place objects near the air inlet and the air outlet of the air conditioner. It may decrease the effect or stop the operation.
- Set the airflow of the air discharge grille horizontally not to obstruct the wind. Otherwise, the wind will not come out and a failure may result.
- Adjust the room temperature properly for a comfortable environment. Avoid excessive heating or cooling.
- Operating the indoor unit with stained air filter may decrease capacity or cause malfunction.
- Install TV's, radios and stereos 1m or more away from the indoor unit and remote controller. Images may become fuzzy and noise may be generated.

Turn off the power circuit breaker when it is not in use for a long period. When the power circuit breaker is turned on, small amount of power is consumed even if the air conditioner is not in operation. (*1)

Turn off the power circuit breaker for saving energy. When re-operating, turn on the power circuit breaker 6 hours before operation for smooth running. (*2)

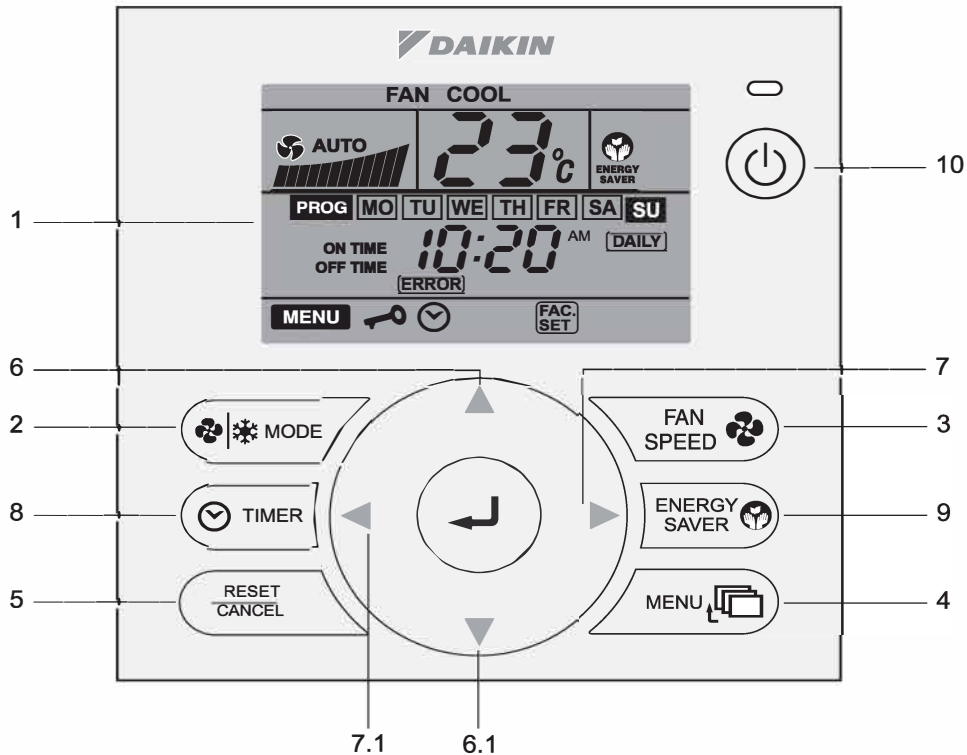
*1 The consumed power while the outdoor unit is not in operation depends on the model.

*2 The setting before the power circuit breaker is cut off is stored. (The timer setting is cleared.)

Use the TIMER OPERATION effectively.

It takes some time until the indoor temperature reaches the set temperature. It is advisable to start operation in advance using the TIMER OPERATION.

7. OPERATING INSTRUCTION



1. TEMPERATURE (LCD Display)

- To display the set temperature set by the user, press "▲ UP" or "▼ DOWN" Keys to increase or decrease the set temperature. The setting range is between 16°C to 32°C

2. MODE

- To display the selected operating mode: Cool Mode/Fan Mode

3. FAN SPEED

- To display the selected ventilation speed: LOW/MED/HIGH. Automatic selection for speed, whereby the speed is automatically adjusted according to the room temperature in only cool mode.

4. MENU MODE

- Press the menu key "MENU" symbol and all option of menu gets "ON"
- MENU can have following option:
 - 1) Key Pad Lock.
 - 2) Clock Setting.
 - 3) Factory Reset.

1) Key Pad Lock:–

To lock keypad, press Menu Key, MENU symbol and other symbol will get "ON". Only this symbol will blink which indicates that user can toggle the lock keypad status. On pressing Enter key user can lock or unlock keypad.

If lock is activated, "ON/OFF", "FAN SPEED", "MODE", "RESET/CANCEL" and "MENU" key will be active and Menu Mode will have only options to unlock keypad.

If invalid key is pressed on lock activation, symbol flashes 3 times to indicate that keypad is locked.


2) Clock Setting:–

To change clock timings and day, press "MENU" Key. In Menu mode, user can reach to by left and –CLOCK symbol right key and can enter in clock setting mode by pressing— Enter key when clock symbol blinks.

On enter in clock setting mode, other options of Menu Mode will get cleared from screen and & **[MO]** will start blinking. User can change day with Left or Right key. Press Enter to set day. On set, selected day will get "ON" and "HOUR" of clock will start blinking. On press LEFT/RIGHT key user can switch between HOUR & MINUTES. Blinking of hour/minute will show that it can be changed by UP/DOWN Key. When user press Enter Key in this mode, clock gets set with set Hour and minute and gets exit from this mode with clock symbol "ON" with clock time on **88:88** ^{AM} this window. Note: 1) If user wants to exit from clock setting mode, press RESET/CANCEL Key at any stage of above process.

2) AM and PM will change when Hour changes from 12 to 1

3) Factory Reset:-

In Menu mode, user can reach to **FAC SET** symbol by left and right key and can do Factory Reset by pressing  - Enter key when **FAC SET** symbol blinks.

On Factory Reset, below setting gets applied:

Temp- 24°C

Mode-Cool

Fan Speed-High

7 days Programmable timer- All set timers will get cleared and will get “-:-” and timer active will also get “OFF”.

5. RESET/CANCEL

Press this key to reset or cancel the current operation.

6. 6.1 TEMPERATURE SETTING

Temperature can be changed by “ UP” or “ DOWN” Keys .

These keys will be used for changing timers and clock in timer or clock setting mode. These keys will not change set-temperature in timer or clock setting mode.

7. 7.1 RIGHT/LEFT

Press this key to move the cursor left or right and move to other options.

8. TIMER

When presses “TIMER” Key, **PROG** **MO** **TU** **WE** **TH** **FR** **SA** **SU** and **DAILY** will appear for 2 seconds and after that **MO** will start flashing which shows enter in MONDAY Timers. For other days move to other days by LEFT/RIGHT Key.

There is 1 On-Timers & 1 Off-Timer for any day of week, with added “Daily” feature.

(a) Press Enter to set day. On set, selected day and **ON TIME** will get “ON” and “HOUR” of Timer will start that it blinking. On press LEFT/RIGHT key switch between HOUR & MINUTES. Blinking of hour/minute can be changed by UP/DOWN Key.

(b) On set/ cancel on-timer, **OFF TIME** symbol will get ON and user can set/cancel off-timer with same way as on-timer.

After setting the Timer's , **PROG** **MO** **TU** **WE** **TH** **FR** **SA** **SU** and **DAILY** will appear for 2 seconds and after that **MO** will start flashing which shows user can enter in MONDAY Timers. For other days user can move to other days by LEFT/RIGHT Key.

(c) After Sunday we get option of DAILY. We can set timers of daily in the same way as we did for other days.

Note:

(1) If “Daily” is selected then only “Daily” Timer will be effective for every Day.

(2) On set of any timer, time will be shown for 2 sec on screen.

(3) On cancel of any timer “-:-” will be shown for 2 sec on screen.

(4) AM and PM will change when Hour changes from 12 to 1.

9. ENERGY SAVER

Energy saver Mode work only in cool mode.

In Energy saver mode, Set Temperature become "26" and Fan speed become "Medium". Set temperature and fan speed will not get changed.

Energy saver mode will get cancel by Mode Change or in standby mode or by pressing energy saver key again.

On cancel Energy Saver, Fan Speed and set temperature will achieve their last status.

10. ON/OFF SWITCH

This key is used to switch ON/OFF the power of the unit.

8. MALFUNCTION CODES

| Malfunction Code | Description and Measures |
|-------------------------|--|
| A5 | IDU Antifreeze - Low Evaporator Temperature Alarm |
| A8 | Indoor Unit power supply voltage abnormal |
| C4 | Indoor heat exchanger liquid pipe temperature sensor malfunction |
| C9 | Indoor Suction air thermistor malfunction |
| E3 | High pressure malfunction (Outdoor unit) |
| E4 | Low pressure malfunction (Outdoor unit) |
| E5 | High pressure difference Alarm (Outdoor unit) |
| E6 | Compressor envelope protection (Outdoor unit) |
| | High condensing temperature alarm (Outdoor unit) |
| F3 | Discharge piping temperature protection (Outdoor Unit) |
| H9 | Outdoor air thermistor system malfunction (Outdoor Unit) |
| J3 | Discharge piping temperature malfunction (Outdoor Unit) |
| J5 | Suction piping thermistor system malfunction (Outdoor Unit) |
| J6 | Heat exchanger thermistor malfunction (Outdoor Unit) |
| L2 | Compressor drive fault (Outdoor unit) |
| L4 | Overheated heat-radiating fin (Outdoor unit) |
| L5 | Instantaneous DC overcurrent (Outdoor unit) |
| LC | Compressor drive communication fault (Outdoor unit) |
| P1 | Power Voltage Imbalance (Outdoor unit) |
| PJ | Capacity setting failure (Outdoor unit) |
| U1 | Reverse phase (Outdoor unit) |
| U4 | Transmission error (between indoor and outdoor unit) |
| U5 | Transmission error (between indoor unit and remote controller) |

If the fault persists, please call your local dealer /serviceman.

9. TROUBLESHOOTING

If any malfunction of the air conditioner unit is noted, immediately switch off the power supply to the unit. Check the following fault conditions and causes for some simple troubleshooting tips.

| Fault | Causes/Action |
|---|--|
| 1. The compressor does not operate 3 minutes after the air conditioner unit is started. | - Protection against frequent starting. Wait for 3 to 4 minutes for the compressor to start operating. |
| 2. The air conditioner unit does not operate. | - Power failure, or the fuse needs to be replaced. - The power plug is disconnected. - It is possible that your delay timer has been set incorrectly. - If the fault persists after all these verifications, please contact the air conditioner unit installer. |
| 3. The air flow is too low. | - The air filter is dirty. - The doors or windows are open. - The air suction and discharge are clogged. - The regulated temperature is not high enough. |
| 4. Discharge air flow has bad odour. | - Odour may be caused by cigarettes, smoke particles, perfume etc. which might have adhered onto the coil. |
| 5. Condensation on the front air grille of the indoor unit. | - This is caused by air humidity after an extended long period of operation. - The set temperature is too low, increase the temperature setting and operate the unit at high fan speed. |
| 6. Water flowing out from the air conditioner unit. | - Switch off the unit and call dealer. |
| 7. Hissing air flow sound from the air conditioner unit during operation. | - Refrigerant fluid flowing into the evaporator coil. |
| 8. Room Temperature Sensor Fail display on Remote (C9) | - If sensor is short / open / not connected, it will be considered as sensor fail. It will automatically reset when Room sensor is corrected. |
| 9. Indoor Antifreeze sensor Fail display on Remote (C4) | - If sensor is short / open / not connected, it will be considered as sensor fail. It will automatically reset when Indoor Antifreeze sensor is corrected. |
| 10. HP Error display on Remote (E3). | - If discharge pressure is very high or over the limit then high pressure switch (HP) cut off the power supply to compressor. - This is caused when condenser fan does not work. - Ambient temperature is very high, above the limit. |
| 11. LP Error display on Remote (E4). | - If Suction pressure is too low or below the limit then low pressure switch (LP) cut off the power supply to compressor. |
| 12. Communication Failure (U4) | - This is caused by Communication wire break or faulty. - The Error will be Reset after changing the Communication wire |
| 12. Indoor Antifreeze Activation on remote (A5). | - If indoor coil tube temperature reaches $\leq 1^{\circ}\text{C}$ 1. Check unit airflow for any restriction (Air filter blockage) 2. Low gas charge / Refrigerant circuit partial blockage. |

If the fault persists, please call your local dealer / serviceman.

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