Models:

A5LCY 10DR
A5LCY 15DR
A5LCY 20CR
A5LCY 25CR

ACSON International

Inverter-Y Single Split

A5LCY - I - 2010

Contents

Nomenclature

Indoor Unit

A	5	WM	Y	10	J	R

Brand	
A	: Acson

Refrigerant	
5	: R410A

Model Name	
WM	: Wall Mounted

Inverter System Type	
Y	: Y series

Capacity Index	
10	: 10,000 Btu/h
15	: 15,000 Btu/h
20	: 20,000 Btu/h
25	: 25,000 Btu/h

Chassis	
J	: J Series

Model Type	
“ “	: Omitted if cooling only
R	: Heatpump

Indoor Unit

A	5	CK	Y	10	C	R

Brand	
A	: Acson

Refrigerant	
5	: R410A

Model Name	
CK	: Ceiling Cassette
CC	: Ceiling Concealed
CM	: Ceiling Mounted

Inverter System Type	
Y	: Y series

Capacity Index	
10	: 10,000 Btu/h
15	: 15,000 Btu/h
20	: 20,000 Btu/h
25	: 25,000 Btu/h

Chassis	
C	: C Series
E	: E Series

Model Type	
“ “	: Omitted if cooling only
R	: Heatpump

Outdoor Unit

A	5	LC	Y	10	D	R

Brand	
A	: Acson

Refrigerant	
5	: R410A

Model Name	
LC	: Single Split Condensing Unit

Inverter System Type	
Y	: Y series

Capacity Index	
10	: 10,000 Btu/h
15	: 15,000 Btu/h
20	: 20,000 Btu/h
25	: 25,000 Btu/h

Chassis	
C	: C Series
D	: D Series

Model Type	
“ “	: Omitted if cooling only
R	: Heatpump

Product Line-Up

Indoor Unit
A5WMY-J Series

A5WMY		Nomenclature	Classification											
			Handset		PCB		Air Purification			Marking		Others		
			GS02		W_2_03A		Saranet Filter	Negative Ionizer	Nano Technology Air Filtration	CE		Auto Restart		
HEATPUMP														
	10JR	ACLTC	X		X		X			X		X		
	15JR	ACLTC	X		X		X			X		X		
	20JR	ACLTA	X		X		X			X		X		
	25JR	ACLTA	X		X		X			X		X		

Indoor Unit
A5CKY-C Series

A5CKY		Nomenclature	Classification											
			Handset		PCB		Air Purification			Marking		Others		
			GS02		C_2_01A_M		Saranet Filter	Negative Ionizer	Nano Technology Air Filtration	CE		Auto Restart		
HEATPUMP														
	10CR	ACOA			X					X		X		
	15CR	ACOA			X					X		X		
	20CR	ACOA			X					X		X		
	PLCKYCR	NGS02	X				X			X				

Indoor Unit
A5CKY-E Series

A5CKY		Nomenclature	Classification											
			Handset		PCB		Air Purification			Marking		Others	
			GS02		C_2_01A_M		Saranet Filter	Negative Ionizer	Nano Technology Air Filtration	CE		Auto Restart	
HEATPUMP													
	20ER	ACOA			X					X		X	
	25ER	ACOA			X					X		X	
	PLCKYER	NGS02	X				X			X			

Indoor Unit
A5CCY-C Series

A5CCY		Nomenclature	Classification											
			Handset		PCB		Air Purification			Marking		Others		
			Netware 3C		C_2_01A_M		Saranet Filter	Negative Ionizer	Nano Technology Air Filtration	CE		Auto Restart		
HEATPUMP														
	10CR	ACPA	X		X		X			X		X		
	15CR	ACPA	X		X		X			X		X		
	20CR	ACPA	X		X		X			X		X		
	25CR	ACPA	X											

Indoor Unit
A5CMY-E Series

A5CMY		Nomenclature	Classification											
			Handset		PCB		Air Purification			Marking		Others	
			GS02		C_2_01A_M		Saranet Filter	Negative Ionizer	Nano Technology Air Filtration	CE		Auto Restart	
HEATPUMP													
	15ER	ACAA	X		X		X			X		X	
	20ER	ACAA	X		X		X			X		X	
	25ER	ACAA	X		X		X			X		X	

Outdoor Unit
A5LCY-D Series

A5LCY		Nomenclature	Classification															
			PCB		Refrigerant Control		FIN			Safety Devices			Compressor		Marking	
			OYL Controller		Cap Tube	EXV	Gold Coated	Blue Coated	Bare Fin	Contactor	HP	LP	DC Inverter Single Rotary	DC Inverter Swing Compressor	CE	
HEATPUMP																
	10DR	ACOUA	X			X			X				X		X	
	15DR	ACOUB	X			X			X				X		X	
	20CR	ACDOA	X			X			X					X	X	
	25CR	ACDOA	X			X			X					X	X	

Features

Self Diagnosis

The microprocessor provides the possibility to detect and diagnose any fault or malfunction that occurs in the system. The error will be reflected by the blinking of the LED lights and by wireless or wired* handset 7-segment display. On top of that, in order to improve serviceability, outdoor unit is also equipped with built in 7-segment display for error code and operating parameters.

Technology

Incorporate Fuzzy Logic control to achieve more precise temperature control, faster and smoother response. Enhanced design using

- Electronic Expansion Valve to achieve optimum refrigerant control as compared to capillary tube.
- Discharge pipe temperature control, high pressure limit control, input current control and heat sink temperature control to improve reliability.

On / Off Button on Indoor Unit

On/Off button is provided on the unit. It can be used when the remote controller is missing or if its battery has run out. (Note: This button can also be used for forced operation mode)

Auto Random Restart

Auto random restart function allows the unit to automatic restart as the last setting condition when the power supply is resumed after power failure. However, the compressor will restart randomly if more than one unit is installed and sharing the same phase of power.

Wireless Remote Controller

- The compact LCD transmitter is able to operate the air conditioner unit within the distance of 8 meters.
- Fan speed can be set at high / medium / low / super low or automatic.
- Sleep mode auto control will gradually increase or decrease the setting temperature to provide a comfortable surrounding for sleeping.
- Air flow direction can be controlled automatically.
- Room temperature is controlled by electronic thermostat.
- The real time timer allows the air conditioner to be switched On and Off automatically based on user settings.

Energy Efficiency

Using a more efficient compressor and superior R410A refrigerant, AWM-J series achieves the highest European Energy Rating of A/A. This ensures higher energy savings is accomplished especially during daily usage. A5WM-J series participates in the Eurovent Certification Programme under category of Comfort Air Conditioners rated below 12kW cooling capacity (AC1). The certified data for the certified models are listed in the Eurovent Directory.

Low Ambient Application

Variable speed outdoor fan allows cooling operation down to minus 10 degree Celsius. This is achieved by modulating fan speed according to ON/OFF duty cycles in respond to the current system load and ambient conditions.

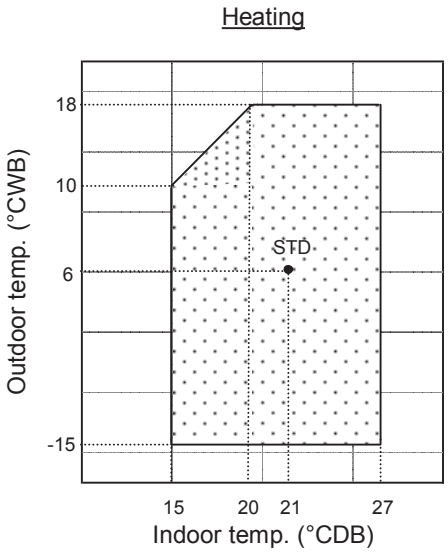
* Currently available for all indoor models except for wall mounted series.

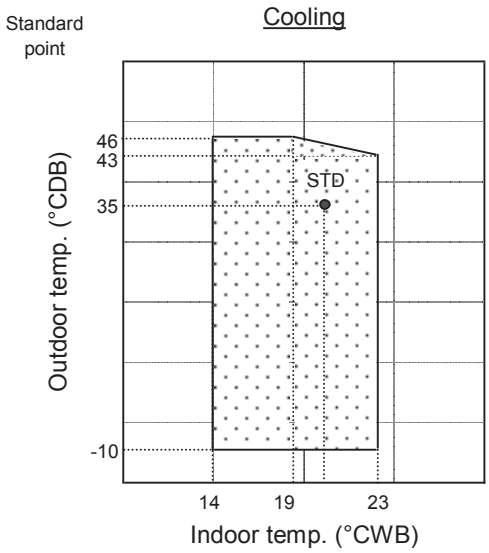
Application Information

Operating Range

Ensure the operating temperature is in allowable range.

Heatpump



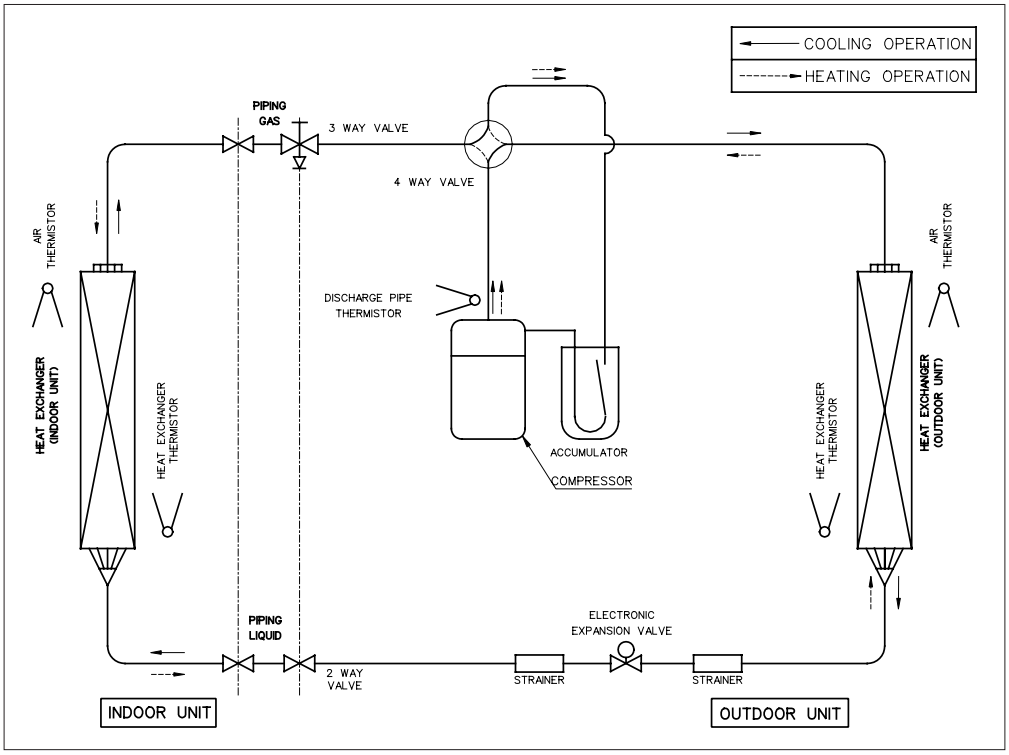


⚠ Caution :

The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

Refrigerant Circuit Diagram

Model: A5LCY 10DR - A5WMY 10JR / A5CKY 10CR / A5CCY 10CR
A5LCY 15DR - A5WMY 15JR / A5CKY 15CR / A5CCY 15CR / A5CMY 15ER
A5LCY 20CR - A5WMY 20JR / A5CKY 20C/ER / A5CCY 20CR / A5CMY 20ER
A5LCY 25CR - A5WMY 25JR / A5CKY 25ER / A5CCY 25CR / A5CMY 25ER



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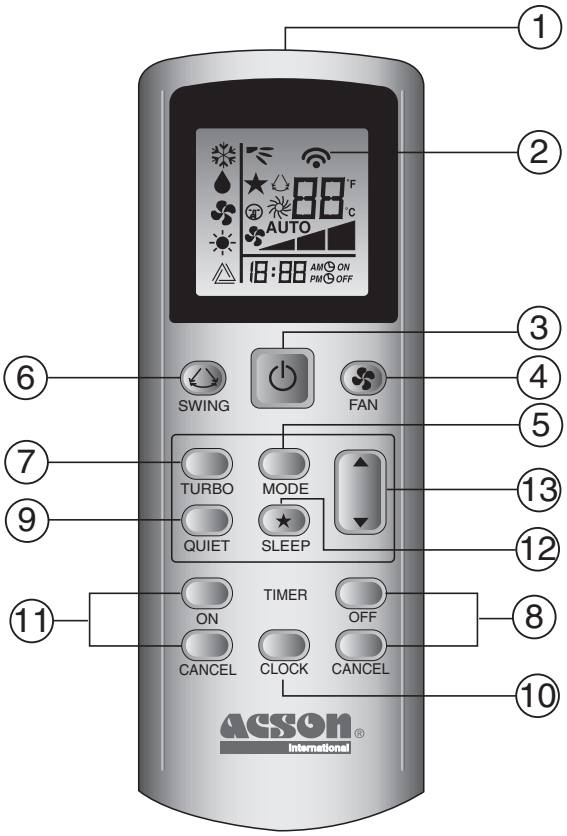
Controller

GS02



Operation Guide

1 Transmission source
- The source where the signal will be transmitted.

2 Signal transmission indication
- Blink to confirm that the last setting has been transmitted to the unit.

3 "ON/OFF" Button
- Press once to start the air conditioner unit.
- Press again to stop the unit.

4 Fan Speed Selection
- Press the ❀ button continuously will toggle the fan speed in the following order:
  Low → Med → High → Auto
- Stop pressing when the desired fan speed appears on the display screen.

5 Operation mode
- Press the MODE button to select the type of operating mode.
- For cooling only unit, the available modes are: **COOL** (❄), **DRY** (💧) and **FAN** (❀).
- For heat pump unit, the available modes are: **AUTO** (△), **COOL** (❄), **DRY** (💧), **FAN** (❀) and **HEAT** (☀).
- The **AUTO** (△) mode is unavailable for chilled water system.

6 Automatic air swing
- Press the **SWING** button to activate the automatic air swing function.
- To distribute the air to a specific direction, press the **SWING** button and wait until the louver move to the desired direction and press the button once again.

Swing mode selection method (for CK-E model)
- Press **SWING** () button for 4 seconds to enter field setting mode. While in field setting mode, it will only show **SWING MODE** ().
- Press temperature and button to select **SWING MODE** () rotation from Swing Mode 1 to Swing Mode 3.
- There are 3 different SWING MODE, which are:

- SWING MODE will not activate unless SWING is activated.
- Swing is indicated by the logo:
- If no mode changes within 4 seconds, unit will operate according to the selected SWING MODE ().

7 Turbo function (model dependent)
- Press for fast cooling or heating operation.
- Fan speed turn to maximum speed.
- Press again to deactivate the function.
- Available under **HEAT, COOL** and **DRY** modes only.
- Any change of fan speed will deactivate this function.
- The Turbo function () is unavailable for chilled water system and remote control with **SWING MODE** () function.

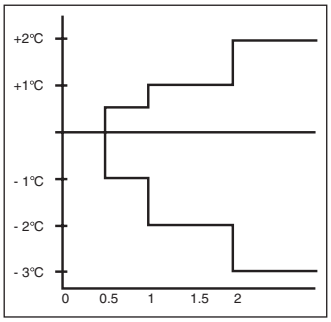
8 OFF timer setting
- Press the TIMER OFF button will activate the off timer function.
- Set the desired off time by pressing the TIMER OFF button continuously.
- Press the CANCEL button to cancel the off timer setting.

9 Quiet function (model dependant)
- Press for quiet operation.
- Fan speed turn to minimum speed.
- Press again to deactivate the function.
- Any change of fan speed will deactivate this function.
- The Silent function ( ) is unavailable for chiller water system.

10 Clock time setting
- Press and hold button to set the clock time.

11 ON timer setting
- Press the **TIMER ON** button will activate the on timer function.
- Set the desired on time by pressing the **TIMER ON** button continuously. If the timer is set to 7.30am, the air conditioner will turn on at 7.30am sharp.
- Press the **CANCEL** button to cancel the on timer setting.

12 Sleep mode setting
- Press the ★ button will activate the sleep mode function.
- This is an energy saving option. When the unit is operating under cooling mode, the set temperature is increased by 0.5°C after the first half an hour, another 0.5°C after the second half an hour and 1°C after the following 1 hour.

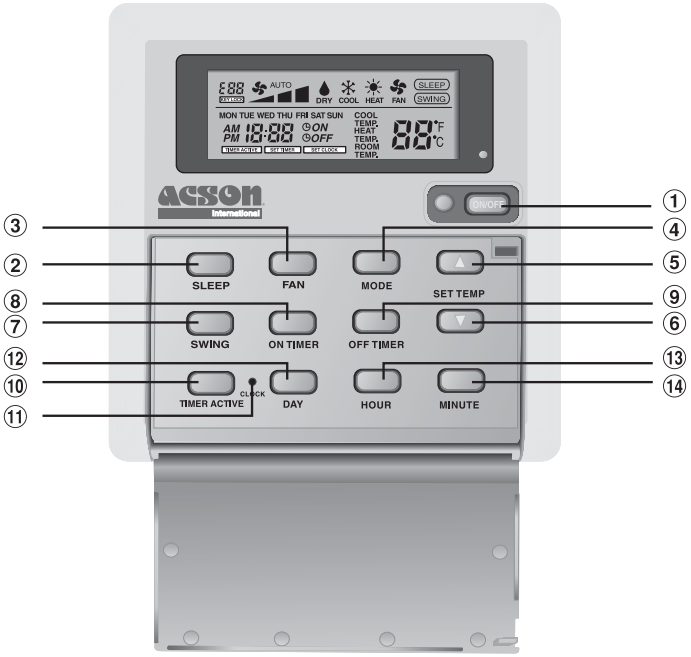


- When the unit is operating under heating mode, the set temperature is decreased by 1°C after the first half an hour, another 1°C after the second half an hour and 1°C after the following 1 hour.
- This function is available under **COOL, HEAT** and **AUTO** mode.

13 Temperature setting
- To set the desired room temperature, press the * or * button to increase or decrease the set temperature.
- The temperature setting range is from 16°C to 30°C (Optional setting 20°C to 30°C).
- Press both buttons ▲ and ▼ simultaneously to toggle from °C to °F setting.

Controller

Netware 3C



1	**ON/OFF Button** • Starting Operation: When the unit is turned off, press the ON/OFF button. The operation LED lights and the unit is turned on. • Stopping Operation: When the unit is turned on, press the ON/OFF button. The operation LED is extinguished and control are turned off.
2	**SLEEP Button** • Press SLEEP button to activate the sleep mode or energy saving mode.
3	**FAN Button** • Press FAN button to select AUTO, HIGH, MEDIUM or LOW fan speed.
4	**MODE Button** • Press the MODE button to switch operation from COOL, HEAT, DRY, FAN. • Check the display to see in which mode the control is set.
5,6	**'▲' or '▼' Set Temperature Button** • Press the temperature button and set the temperature of your choice. By pressing the '▲' or '▼' button once, temperature changes by 1°C [or 1°F]. • Temperature can be set within the range 16°C~30°C (61°F~86°F) • During fan mode, temperature cannot be set. • If pressing '▲' and '▼' together, the unit of temperature will change from °C to °F and vice-versa.
7	**SWING button** • Press SWING button to activate the air sweep function.
8	**ON TIMER Button** • Enable/disable the Event 1, 2 and 3 ON TIMER setting mode
9	**OFF TIMER Button** • Enable/disable the Event 1, 2 and 3 OFF TIMER setting mode
10	**Timer Active Button** • These timers will not triggered if the timer is not active. To activate the timers, press the TIMER ACTIVE key unit "TIMER ACTIVE" appears on LCD. This symbol is to indicate Event 1, Event 2 and/or Event 3 timers are active. Pressing the same steps will deactivate the timers and "TIMER ACTIVE" symbol will disappear. • Another method to cancel the timers setting is changed all the hour setting of the timers to null one by one. When the setting is null, the LCD display --:--, then this respective timer will be disable.
11	**CLOCK Button** • Enable/disable the Real Time Clock (RTC) setting mode
12	**DAY Button** a) Select the day for RTC or timer setting b) Enable/disable FAN Key lock
13	**HOUR Button** a) Select the hour for RTC or timer settings b) Set Override function for 1, 2 or 4 hours
14	**MINUTE Button** a) Select the minute for RTC or timer settings b) Enable/disable key lock

Installation Guideline

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.
- 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}.

⚠ 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.**

  This unit is factory pre-charged. 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 operate any heating apparatus too close to the air conditioner unit.** This may cause the plastic panel to melt or deform as a result of the excessive heat.
- **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.**
- **Do not use joined and twisted wires for incoming power supply.**

NOTICE

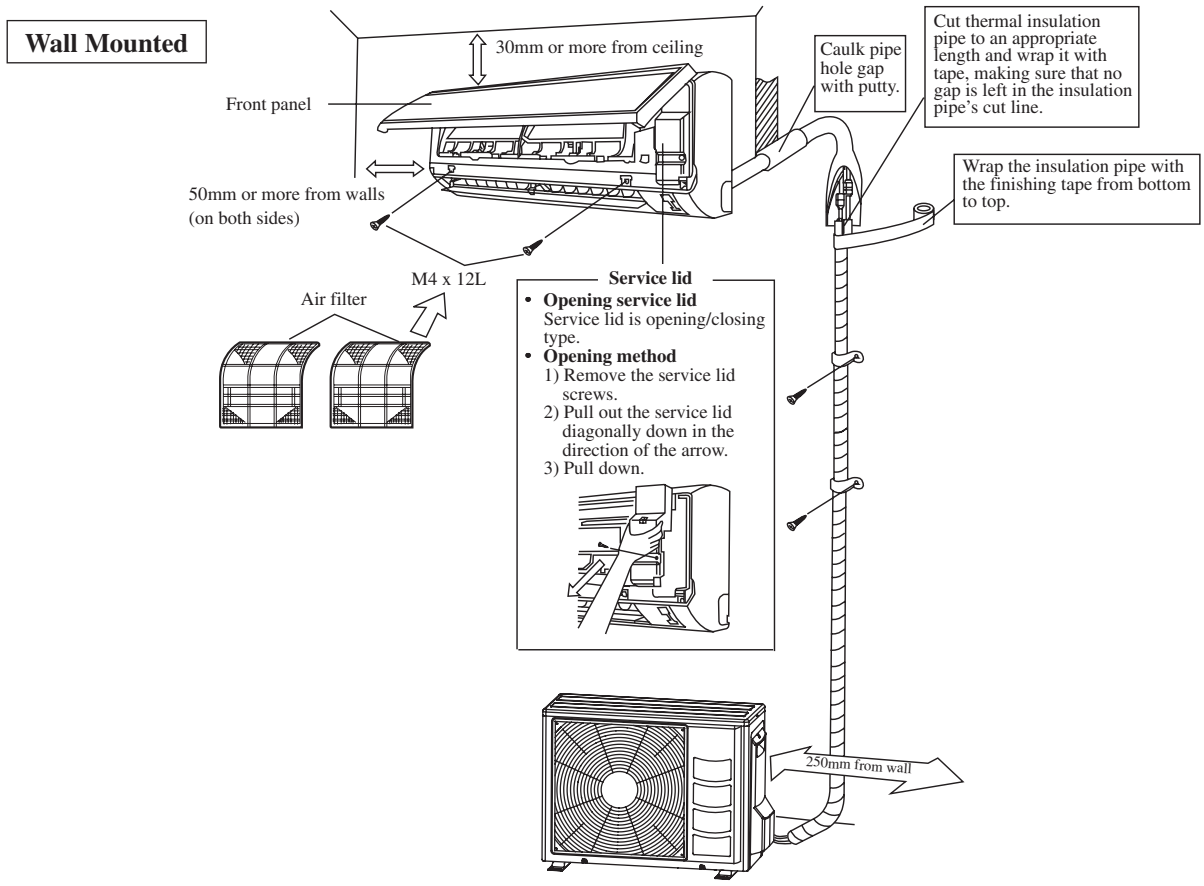
Disposal requirements

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 a qualified installer in accordance with relevant local and national legislation. Air conditioners must be treated at a specialized treatment facility for re-use, 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.

Installation Diagram



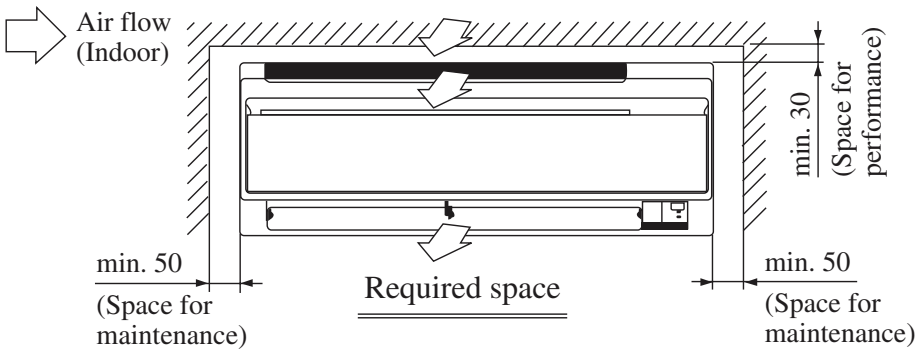
Caution

- Before installing the unit, ensure that the power supply matches the power requirement of the air conditioner.

Service Space

Install the indoor unit at a location with the following requirements

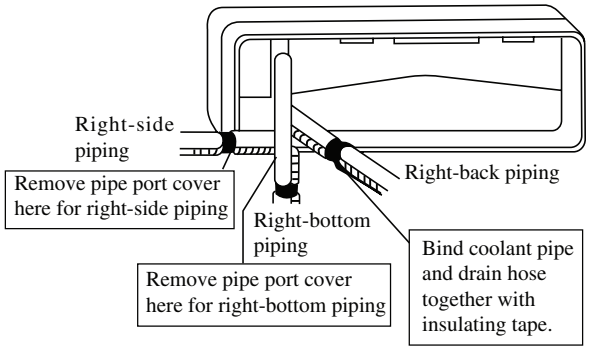
- Location is suitable for wiring, piping and drainage.
- No obstruction of air flow into and out of unit where cooler air can be evenly distributed.
- Ensure that air discharge is not short circuited with air intake.
- Ensure that wall is sufficiently strong, rigid, flat, perpendicular and vibration free.
- Where air filter cassette can be slided in or out easily.
- Where there is no danger of flammable gases.
- Where there is no direct sunlight on unit.



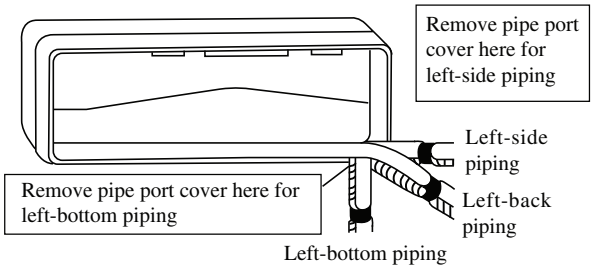
Routing of Piping

- The refrigerant piping can be routed to the unit in a number of ways (left or right from the back of the unit), by using the cut-out holes on the casing of the unit . Bend the pipes carefully to the required position in order to align it with the holes. For the side and bottom out, hold the bottom of the piping and then position it to the required direction. The condensation drain hose can be taped to the pipes.

Right-side, right-back or right-bottom piping

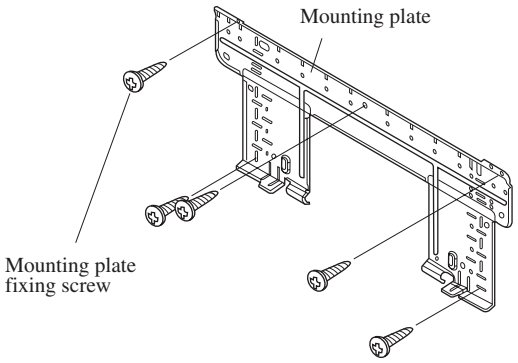


Left-side, left-back or left-bottom piping

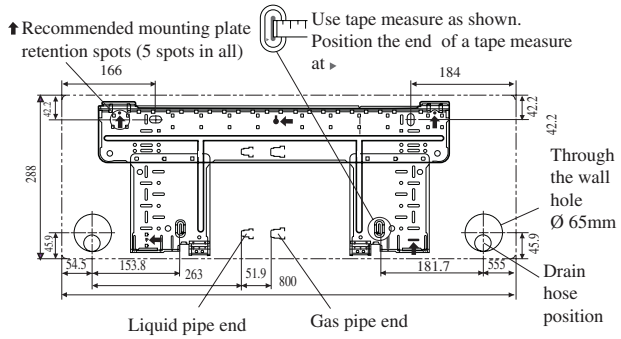


Mounting Installation Plate

- Paste the installation plan provided on the desired location on the wall and marks the holes location accordingly.
- Ensure the wall is strong enough to withstand the weight of the unit. Otherwise, it is necessary to reinforce the wall with plates, beams or pillars.
- Ensure the levelness of the installation plate, and fix with 5 suitable screws.

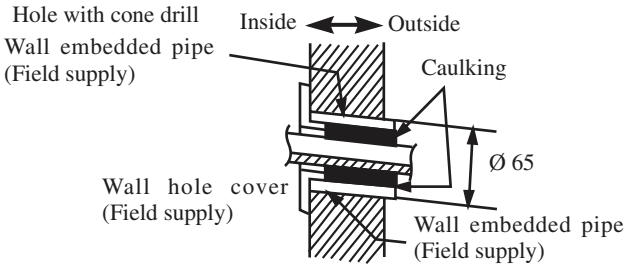


- Fix the installation plate firmly to the wall, without tilting to left or right. Use a plumb line, if available.



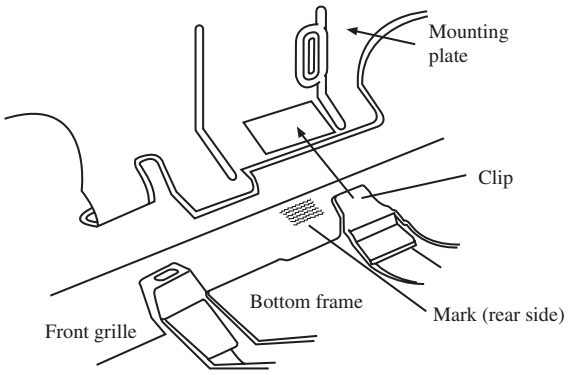
All dimensions are in mm

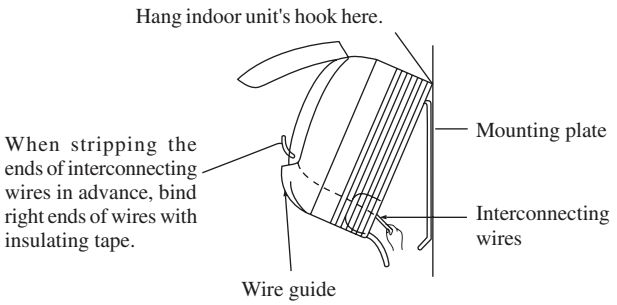
- In case of rear piping drawings out, drill a hole 65mm in diameter with a cone drill, slightly lower on the outside wall.



Mounting Unit onto the Installation Plate

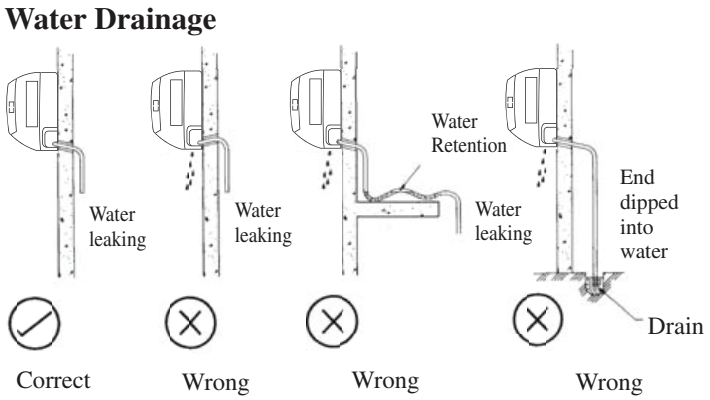
- Hook the indoor unit onto the upper portion of the installation plate (engage the two hooks at the rear top of the indoor unit with the upper edge of the installation plate). Ensure the hooks are properly seated onto the installation plate by moving it to the left and right.
- To attach the indoor unit, hook the claws of the bottom frame to the mounting plate. If the claws are difficult to hook, remove the front grille.
- To remove the indoor unit, push the marked area (at the lower part of the front grille) to release the claws. If it is difficult to release, remove the front grille.





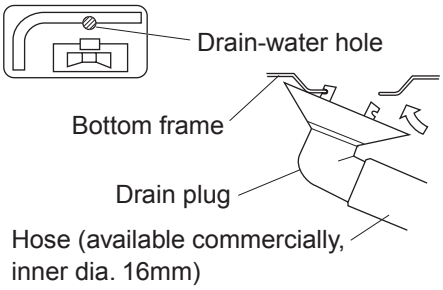
Water Drainage Piping

- The indoor drain pipe must be downward gradient for smooth drainage. Avoid situation as shown in figure below.

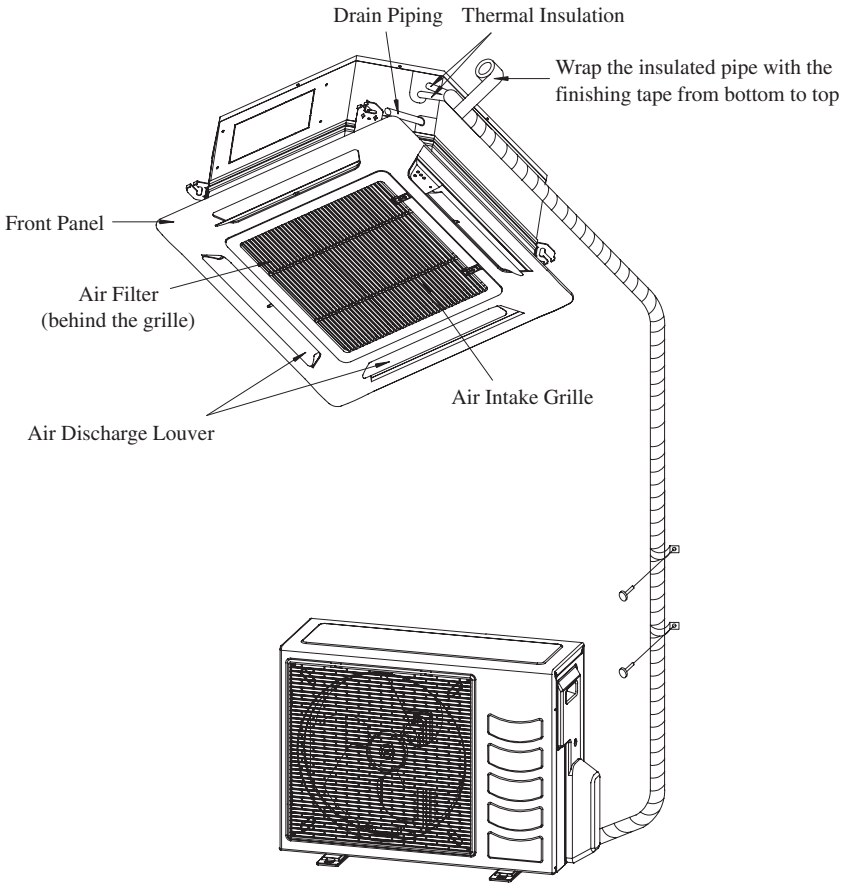


Drain work. (Heat Pump Unit Only)

1) Use drain plug for drainage.
2) If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 30mm in height under the outdoor unit's feet.
3) In cold areas, do not use a drain hose with the outdoor unit. (Otherwise, drain water may freeze, impairing heating performance.)

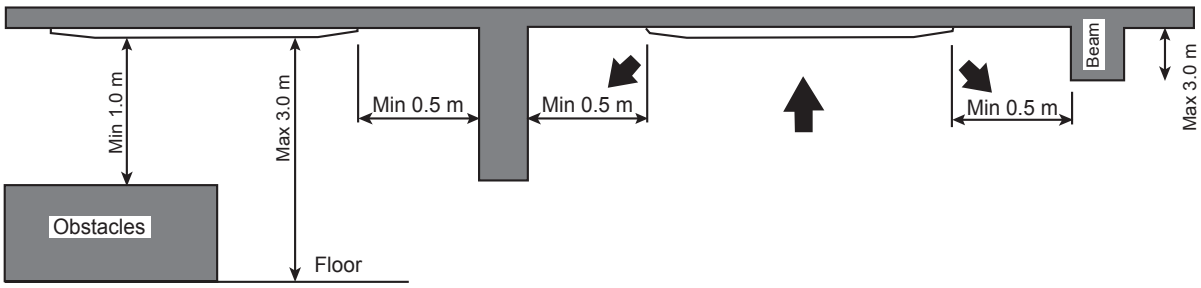


Ceiling Cassette



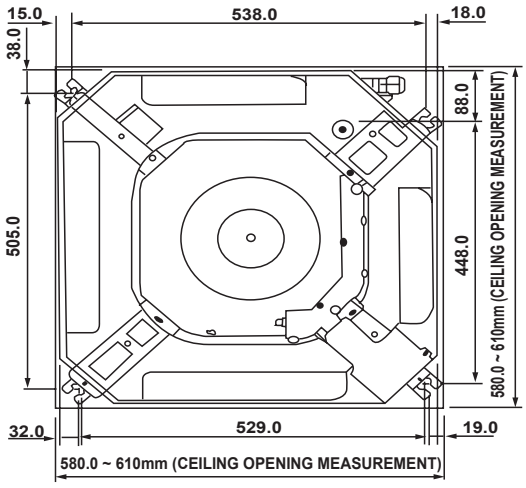
Preliminary Site Survey

- Electrical supply and installation is to confirm to local authority's (e.g. National Electrical Board) codes and regulations.
- Voltage supply fluctuation must not exceed ± 10% of rated voltage. Electricity supply lines must be independent of welding transformers which can cause high supply fluctuation.
- Ensure that the location is convenient for wiring, piping and drainage.
- The indoor unit must be installed in such that free from any obstacles in path of cool air discharge and warm air return, and must allow spreading or air throughout the room (near the centre of the room).
- Clearance must be provided for the indoor unit from the wall and obstacles as shown in the figure.

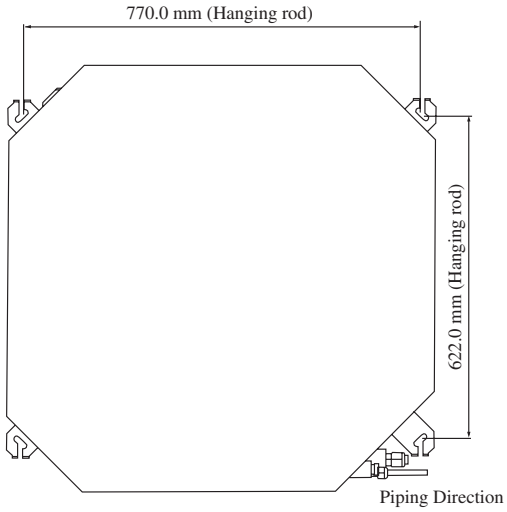


- The installation place must be strong enough to support a load of 4 times the indoor unit weight to avoid amplifying noise and vibration.
- The installation place (handling ceiling surface) must be level and the height in the ceiling is 350mm or more.

Unit Installation



A5CKY-C

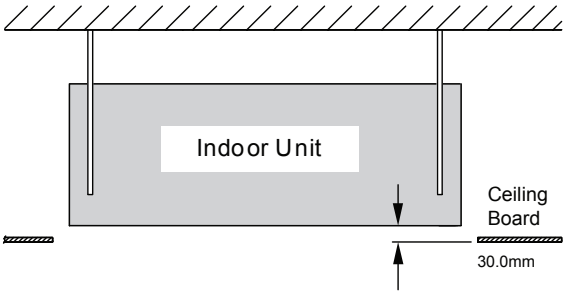


A5CKY-E

- The indoor unit must be away from heat and steam sources (avoid installing it near an entrance).
- Measure and mark the position for the hanging rod. Drill the hole for the angle nut on the ceiling and fix the hanging rod.
- The installation template is extended according to temperature and humidity. Check on dimensions in using.
- The dimensions of the installation template are same as those of the ceiling opening dimensions.
- Before ceiling laminating work is completed, be sure to fit the installation template to the indoor unit.

Note: Be sure to discuss the ceiling drilling work with the installers concerned.

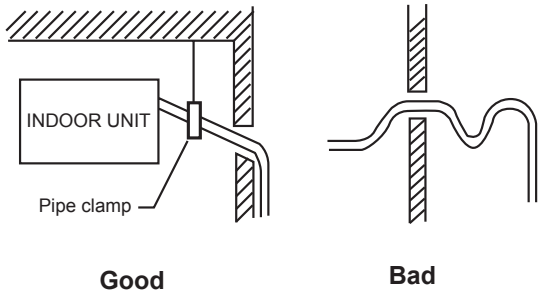
Unit Hanging



A5CKY-C/E

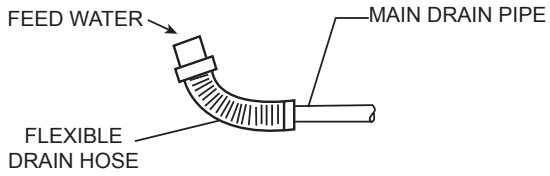
- Confirm the pitch of the hanging rod is 770mm x 622mm sharp (A5CKY-E)
- Hold the unit and hand it on the hanging rod with the nut and washer.
- Adjust the unit height to 35.0mm between the indoor unit bottom surface and the ceiling surface.
- Confirm with a level gauge that the unit is installed horizontally and tighten the nut and bol to prevent unit falling and vibration.
- Open the ceiling board along the outer edge of the paper installation template.

Drain Piping Work



- Drain pipe must be downward gradient for smooth drainage.
- Avoid the drain pipe from up and down slope to prevent reversal flow.
- During the drain pipe connection, be careful not to exert extra force on the drain connector at the indoor unit.
- The outside diameter of the drain connection at the flexible drain hose is 20mm.
- Be sure to provide heat insulation (polyethylene foam with thickness more than 8.0mm) on the drain piping to avoid the condensed water dripping inside the room.

Drain Test

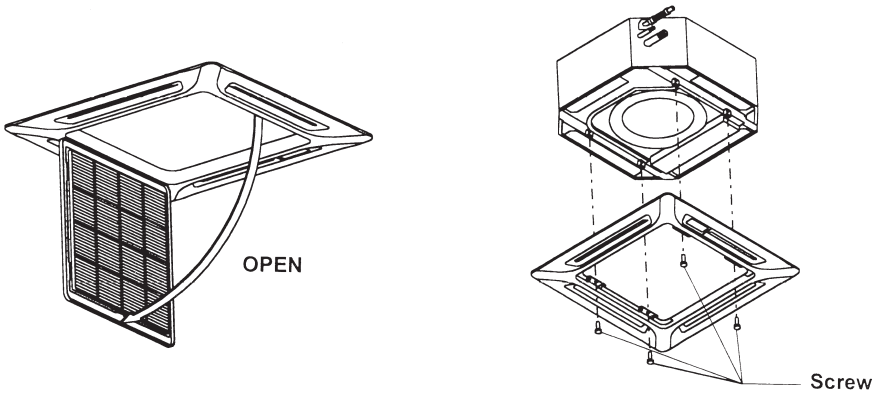


- Connect the main drain pipe to the flexible drain hose.
- Feed water from flexible drain hose and check the piping for leakage.
- When the test is completed, connect the flexible drain hose to the drain connector on the indoor unit.

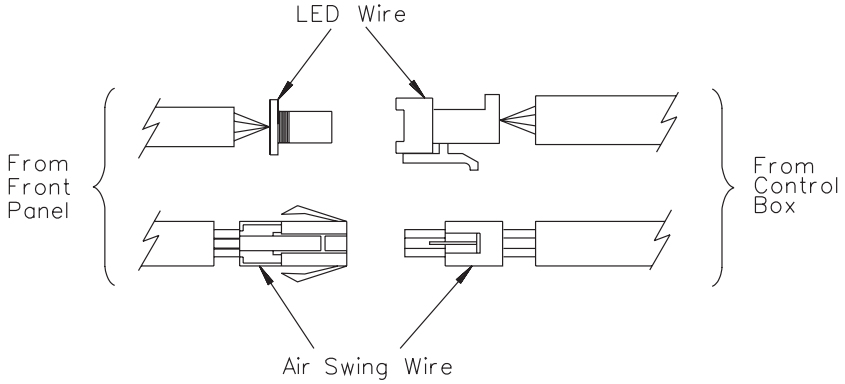
Note: This indoor unit use drain pump for condensed water drainage. Install the unit horizontally to prevent water leakage or condensation around the air outlet.

Panel Installation

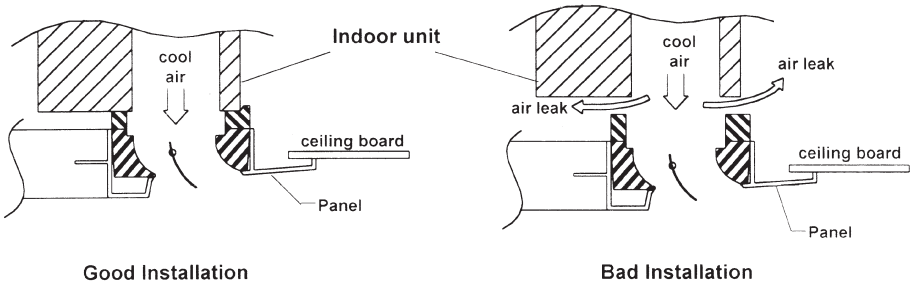
- The front panel can only be fitted in one direction, follow the piping direction. (Follow piping arrow sticker on the front panel).
- Be sure to remove the installation template before installing the front panel.



- Open the air intake grille by pulling back the catchers and remove it together with filter from panel.
- Install the front frame panel onto the indoor unit by using 4 screws and tighten it completely to prevent cool air leakage.
- Connect the LED wire and air swing wire to the indoor unit (Optional).

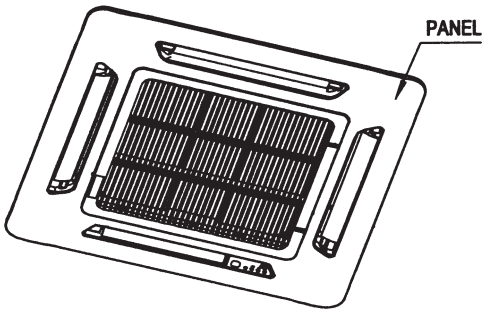


Note: Install the front frame panel firmly to prevent cool air leakage which will cause condensation and water dripping.

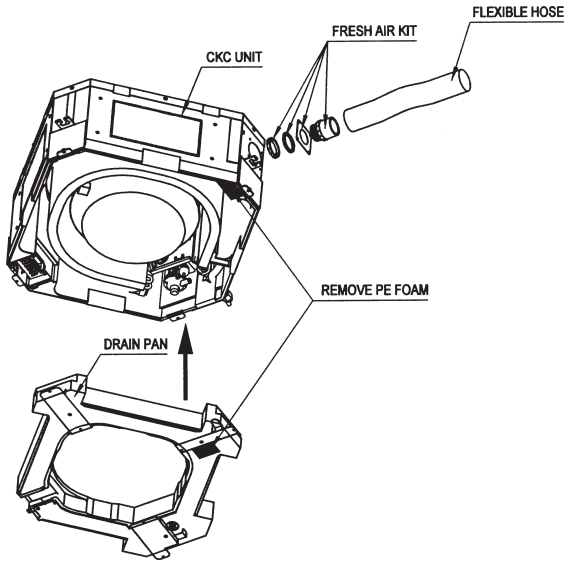


Good Installation Bad Installation

Fresh Air Intake For A5CKY-E Unit



Take off the panel from the indoor unit



Remove the PE foam from the drain pan and another one on the unit.

Remove the pre-punched panel on the CKC unit with a screwdriver.

The diameter of the air intake knock out hole is 65mm.

Then, fix the fresh air kit (refer to parts list) to the hole. Finally, a flexible duct is connected to let the fresh air moving in.

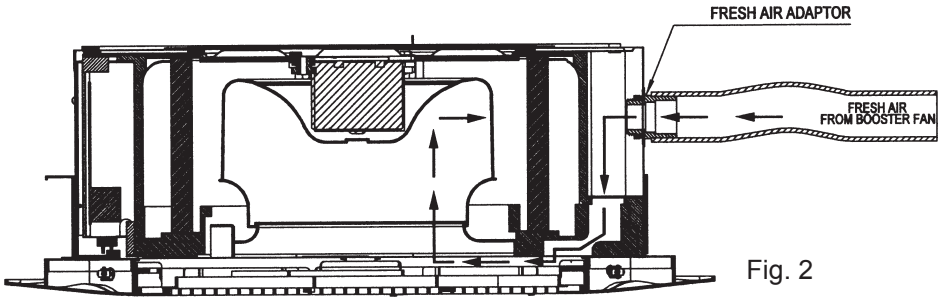


Fig. 2

The direction of the fresh air intake is shown as fig. 2.

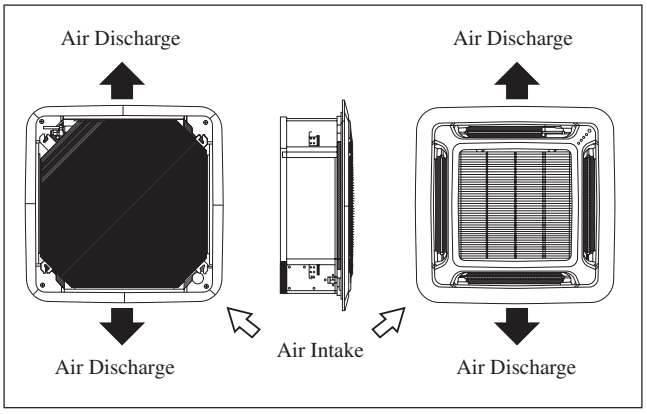
Sealing Material

- It is possible to seal one of the four air discharge outlet (sealing two or more air discharge outlet could cause a malfunction).
- Remove the front panel and inserting the seal material into the air discharge outlet at the indoor unit to sealthe air outlet.
- The sealing material is the same length as the length air discharge outlet. If it is desired to seal the shorter air discharge outlet, cut the sealing material to shorten it.
- Push the sealing material in about 10mm beyond the bottom surface of the indoor unit so that it does not touch the air louver. Be sure not to push the sealing material in any farther than about 10mm.

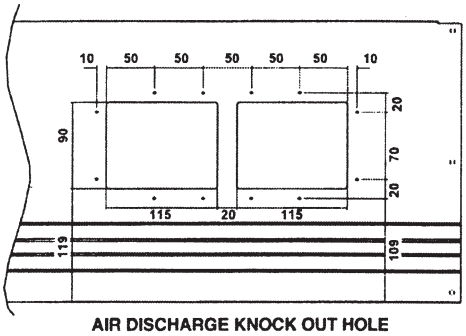
Short Duct Specification For A5CKY-E Unit

- The indoor unit is provided with air discharge and air intake “knock-out” hole for duct connection. However the connection of the short duct for air discharge is possible on only one side.
- The use of short duct for air discharge will improve air flow distribution if there is an obstruction (such as alighting fixture) or in a long, narrow room or an L-shaped room. It is also used for air-conditioning of two rooms simultaneously.

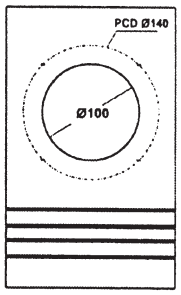
Possible Direction For Air Discharge and Air Intake



Possible Opening Dimension for Duct Connection



AIR DISCHARGE KNOCK OUT HOLE



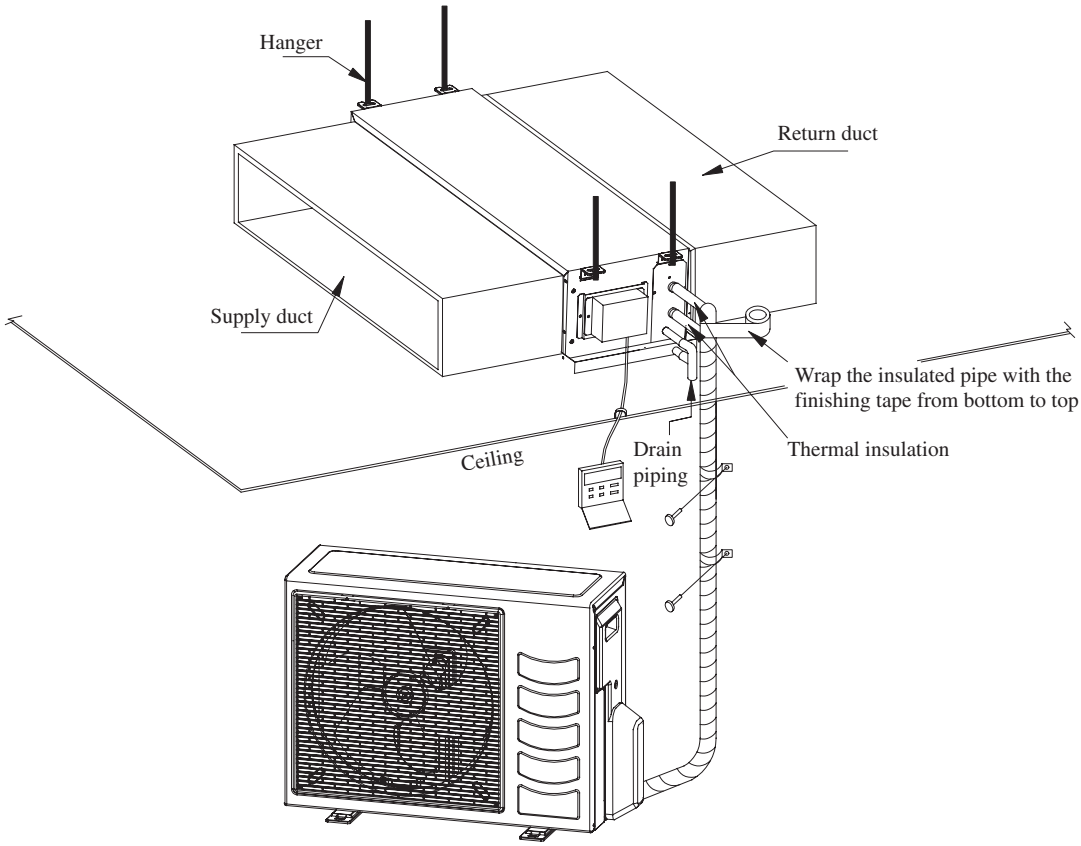
AIR INTAKE KNOCK OUT HOLE

Note: 1. Avoid to use the short duct on which the air discharge grille can be completely closed, to prevent evaporator freezing.

2. In order to prevent condensation forming, be sure that there is sufficient thermal insulation and no leakage of cool air when installing the short duct.

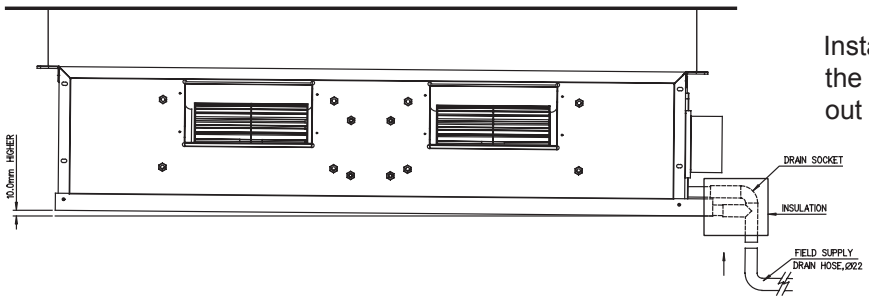
3. Keep the introduction of fresh air intake within 20% of total air flow. Also provide a chamber and use a booster fan.

Ceiling Concealed



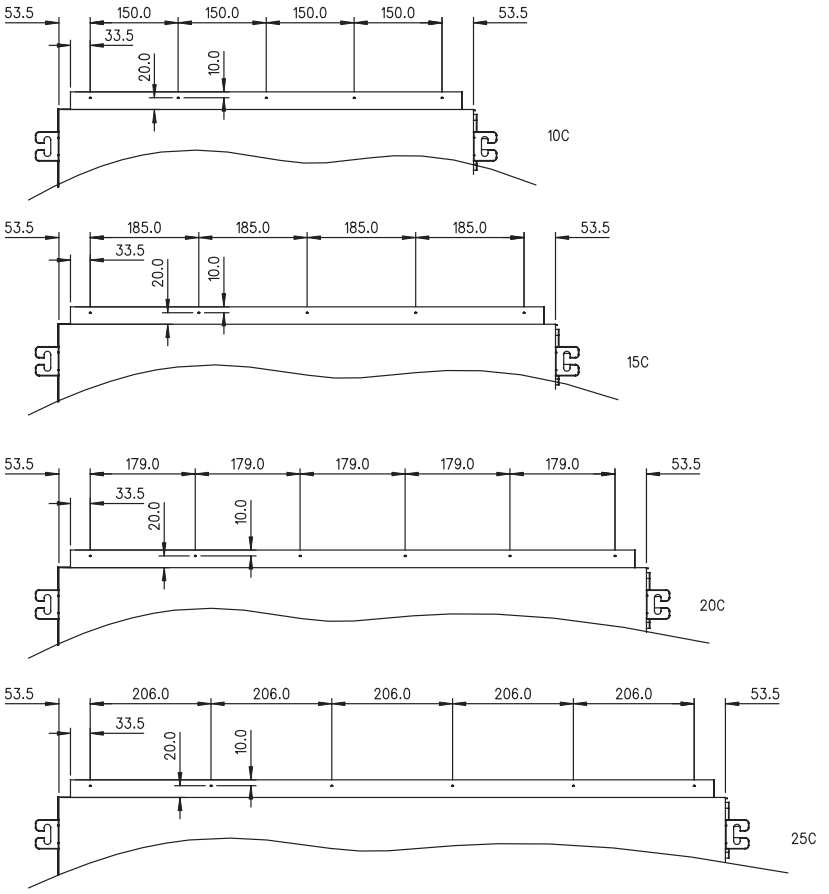
Preliminary Survey

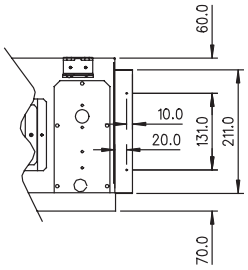
- Electrical supply and installation is to confirm to local authority's (e.g. National Electrical Board) codes and regulations.
- Voltage supply fluctuation must not exceed ± 10% of rated voltage. Electricity supply lines must be independent of welding transformers which can cause high supply fluctuation.
- Ensure that the location is convenient for wiring, piping and drainage.
- The indoor unit must be installed in such that free from any obstacles in path of cool air discharge and warm air return, and must allow spreading or air throughout the room (near the centre of the room).
- Clearance must be provided for the indoor unit from the wall and obstacles as shown in the figure.
- Use the hanger supplied with the unit.
- Ensure the support is strong enough to withstand the weight of the unit.
- Use the supplied drain socket to connect the drain pipe (the drain socket is only available for 10˚C to 25˚C)



Install the unit in such a way that the condensate water can flow out smoothly.

The diagrams below show the screws position for duct work connection.





Ceiling Convertible

Preliminary Site Survey

- Electrical supply and installation is to confirm to local authority's (e.g. National Electrical Board) codes and regulations.
- Voltage supply fluctuation must not exceed ± 10% of rated voltage. Electricity supply lines must be independent of welding transformers which can cause high supply fluctuation.
- Ensure that the location is convenient for wiring, piping and drainage.

Standard Mounting

Ensure that the overhead supports are strong enough to hold the weight of the unit. Position the hanger rods (wall mounting bracket for floor standing), and check for its alignment with the unit as shown in Fig. 3. Also,check that the hangers are secured and the base of the fan coil unit is leveled in both horizontal directions, taking into account the gradient for drainage flow as recommended under section Piping and Drain Hose Installation.

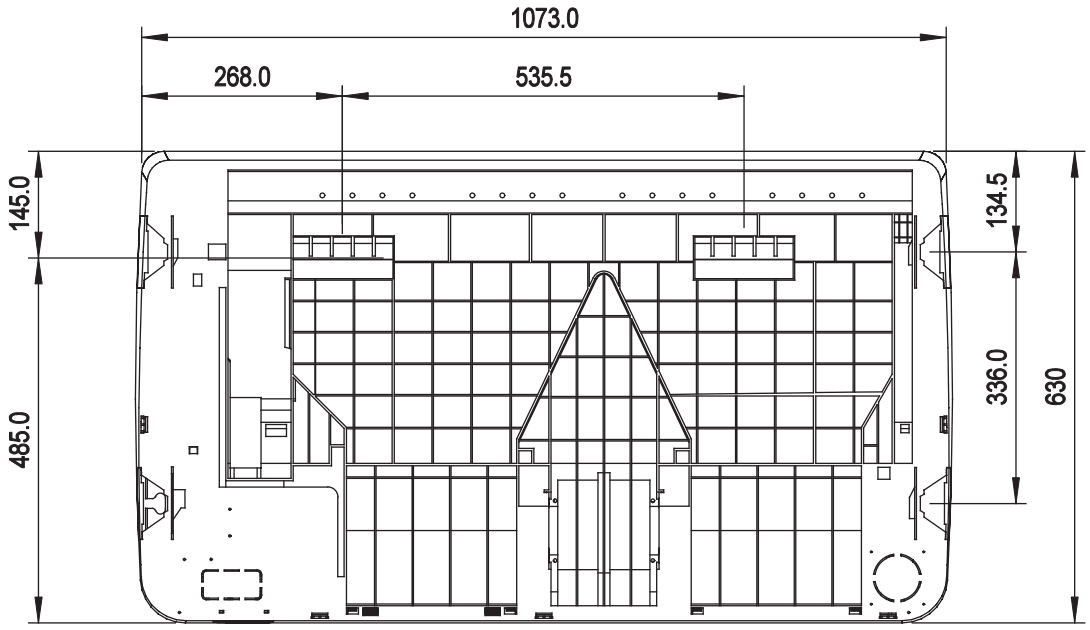


Fig. 3

Please ensure that the following steps are taken:

- Check the gradient for drainage flow as recommended in Figure 4.
- Provide clearance for easy servicing and optimal air flow as shown in Figure 5.
- The indoor unit must be installed such that there is no short circuit of the cool discharge air with the warm return air.
- Don not install the indoor unit where there is direct sunlight shining on the unit. The location should be suitable for piping and drainage installation. The unit must be a large distance away from the door.

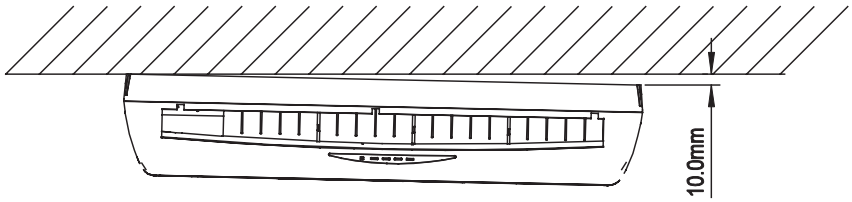
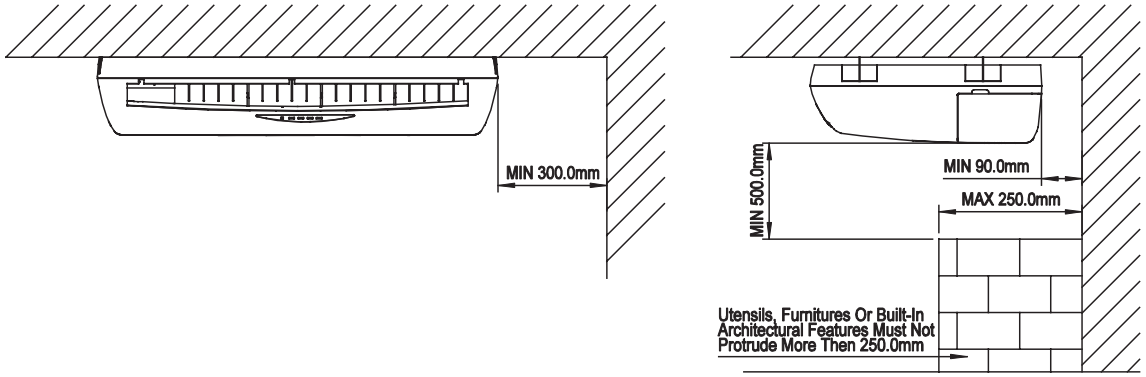
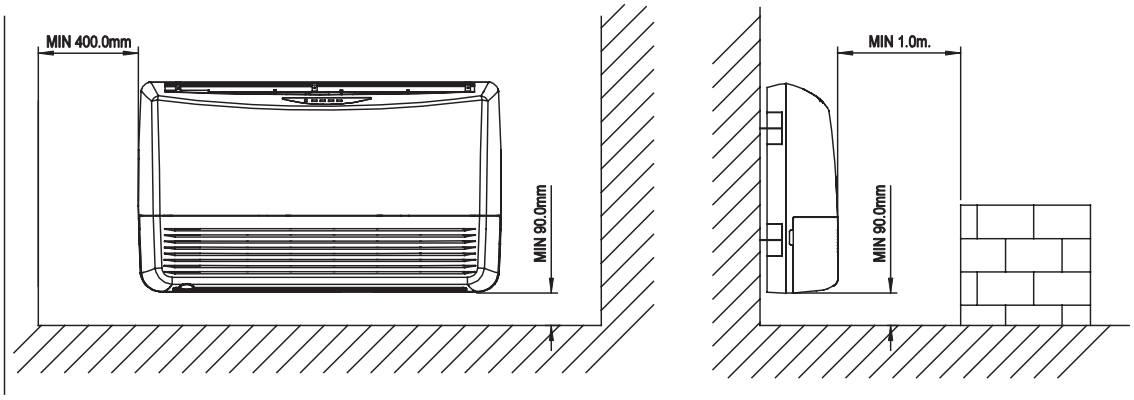


Fig.4



Under ceiling type



Floor standing type

Fig.5

•

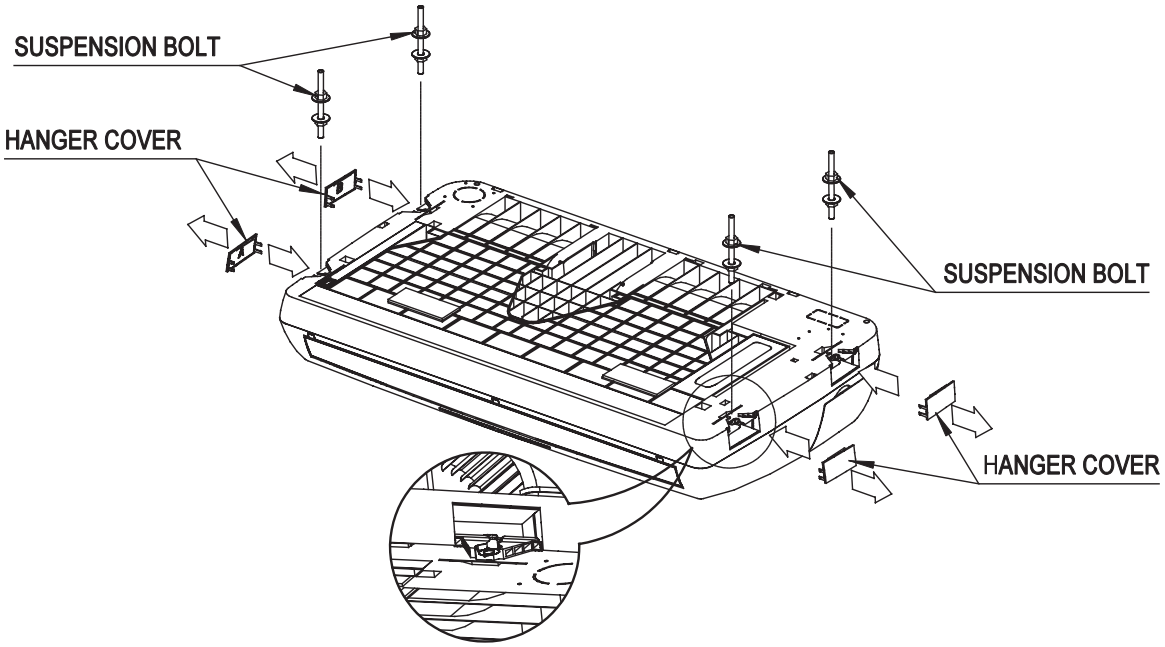
Under Ceiling Installation

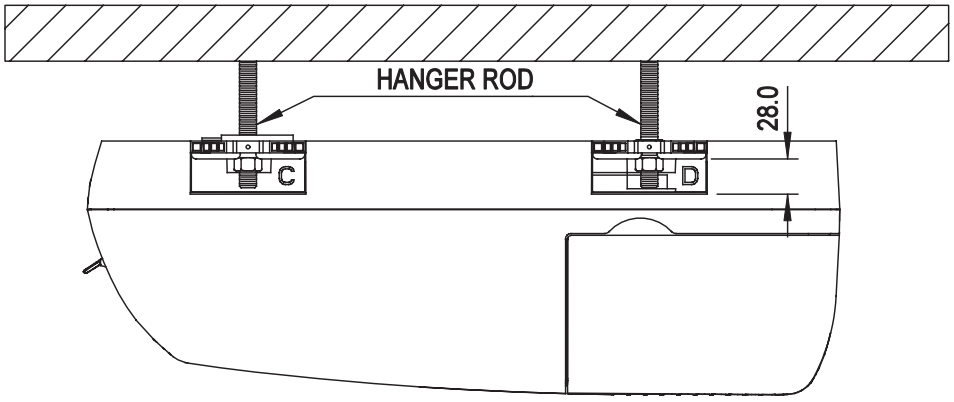
Install the Suspension Bolts

1. Install the suspension bolts so that it can support the indoor unit.
2. Adjust the distance to ceiling before installation.
3. Refer to the dimension given (Fig. 5) to install the unit.

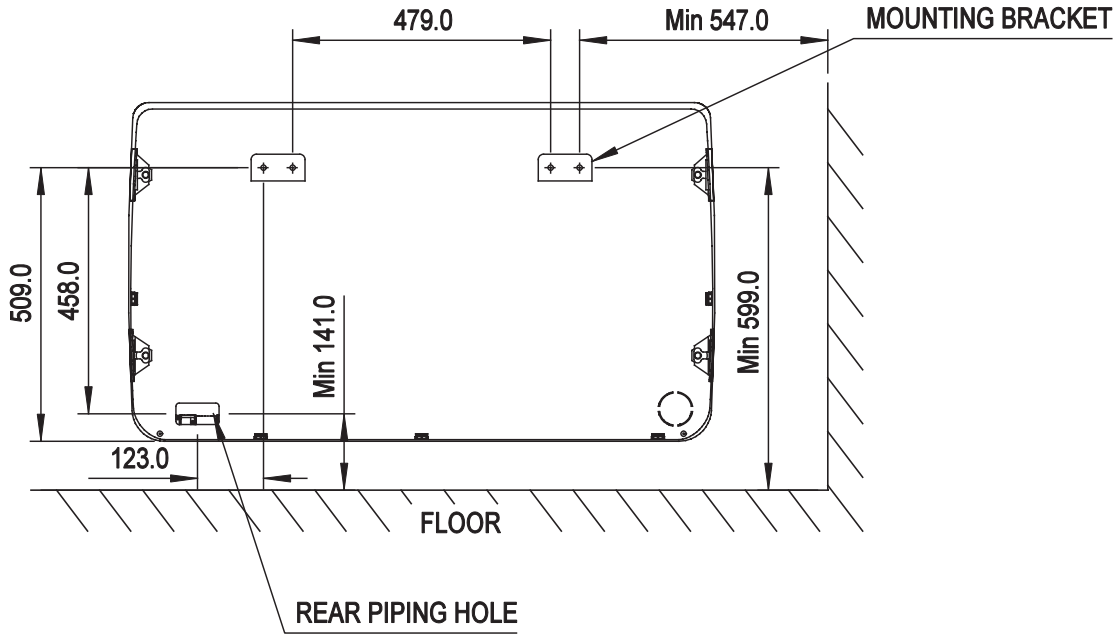
Install the Indoor Unit

1. Insert the suspension bolts into the fittings of the hanger bracket.
2. Set the nuts and washer on the both side of the metal fittings.
3. Secure it with nuts.
4. Attach the hanger cover (4 pcs) to the units.

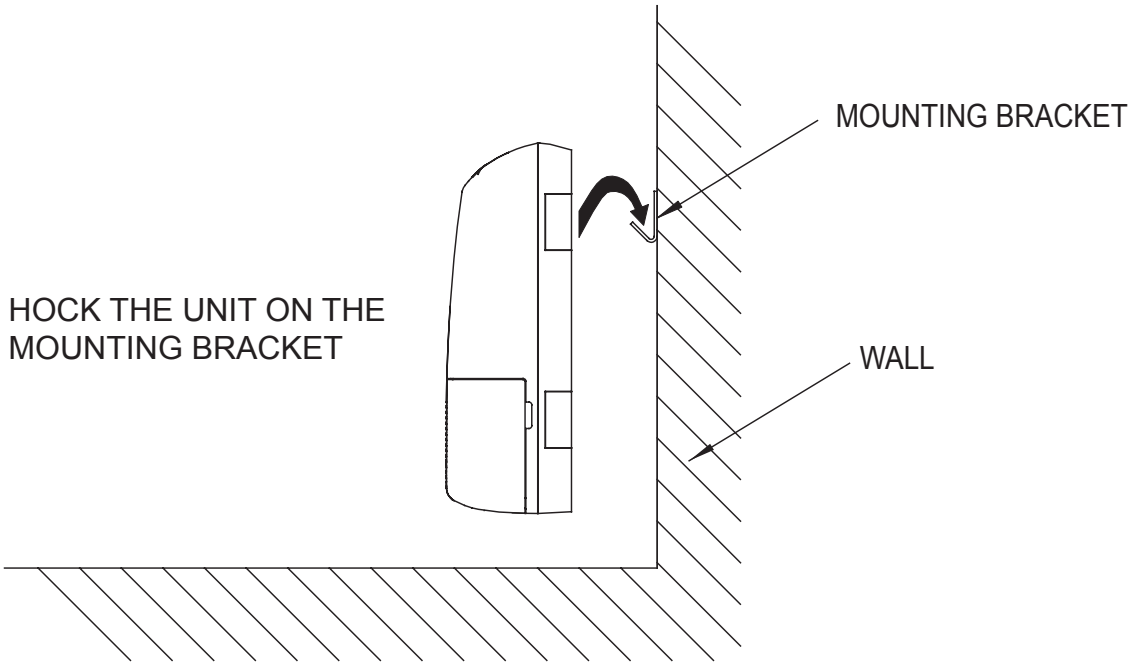




Floor Standing Installation



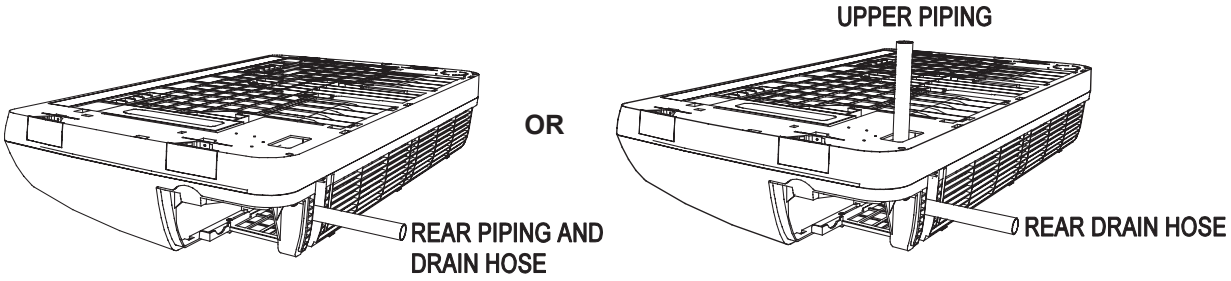
1. Refer to the dimension as illustrated when installing the mounting bracket.
2. Determine the pipe hose position using the rear piping hole. Drill the pipe hole at the slight downward slant to the outdoor side.



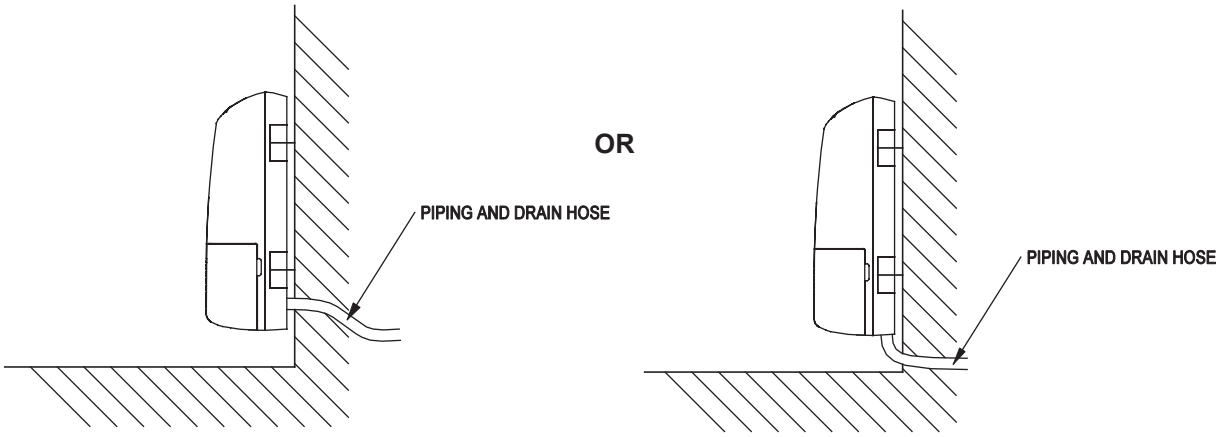
Piping and Drain Hose Installation

Under Ceiling Type

1. The piping direction can be 2 ways as illustrated.
2. The drain hose is only 1 way.



Floor Standing Type

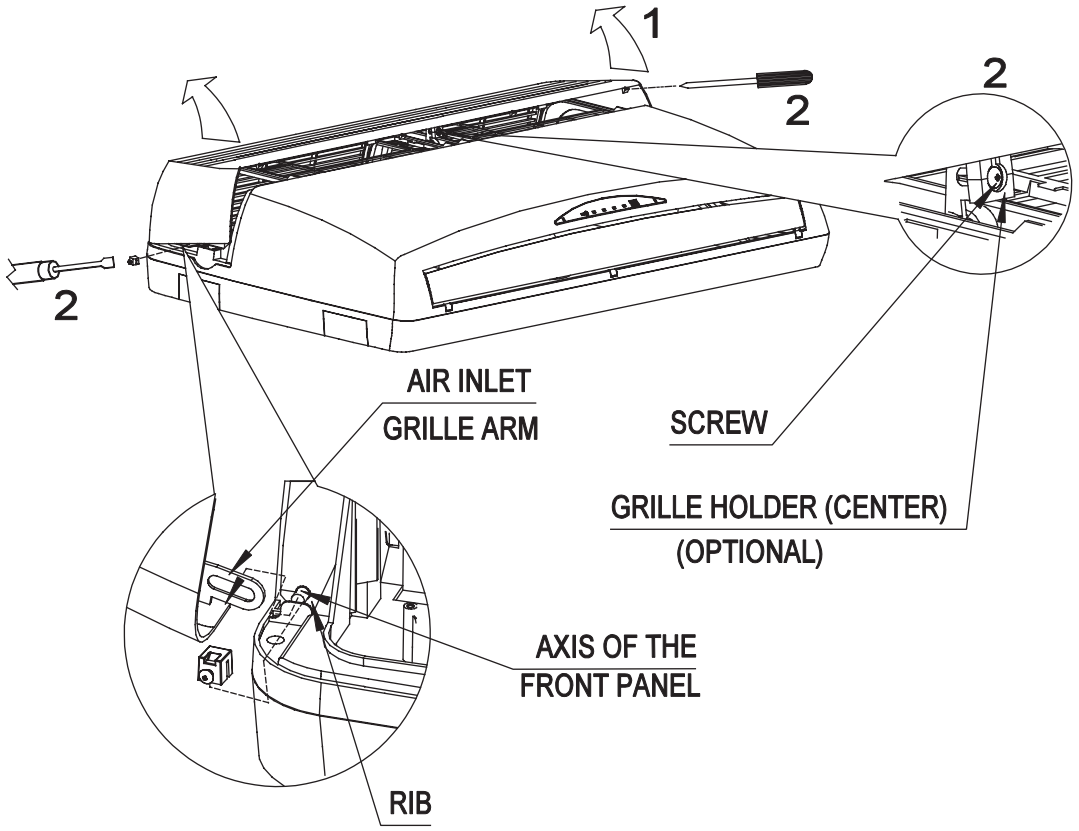


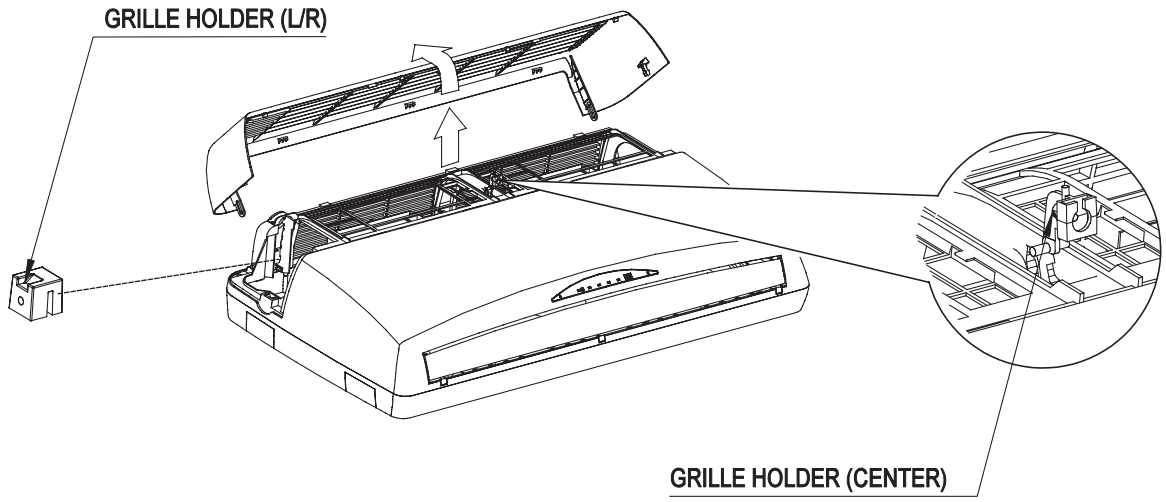
How to Install the Drain Hose

1. Remove the 2 screws and the drain pipe holder.
2. Cut a slit for the drain hose hole.
3. Place the drain hose on the v-shape area and secure it with drain pipe holder and 2 screws.

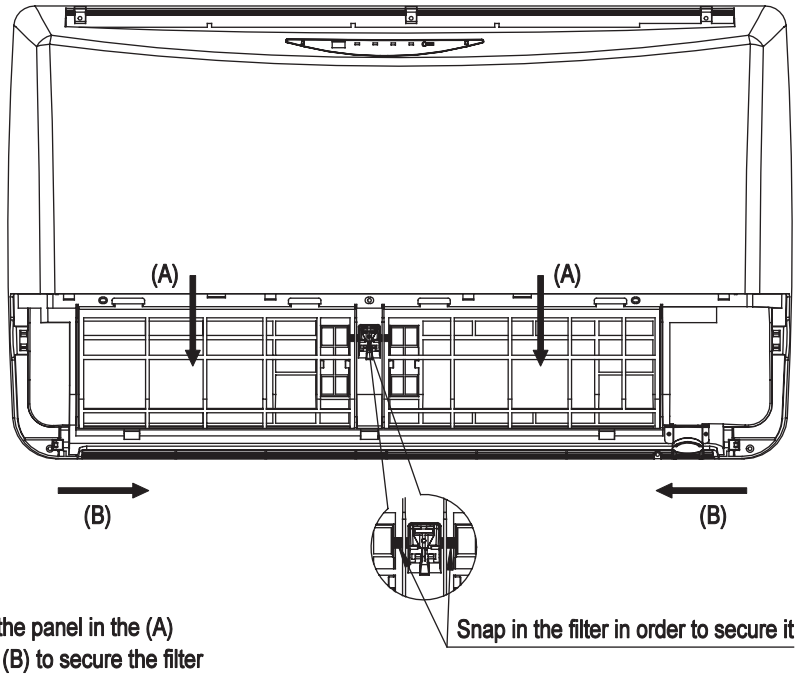
How to Remove the Air Inlet Grille

1. Remove the air inlet grille by both hands as the direction shown.
2. Loosen the screws for fixing the panel arm (3 screws – Left, Right and Center). Do not remove the screws at this time.
3. Move the air inlet grille upward, and then turn it backwards. (Do not use too much force).
4. Remove the grille holder (both left and right side). After that, remove the air intake grille.
5. Remove the grille holder (center) from the panel.



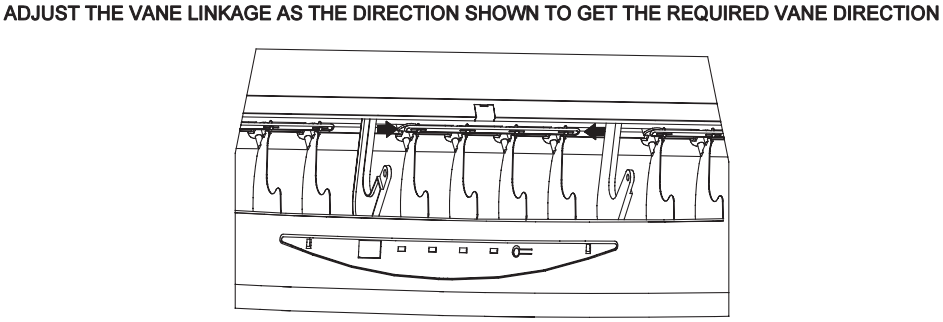


How to Install the Air Filter

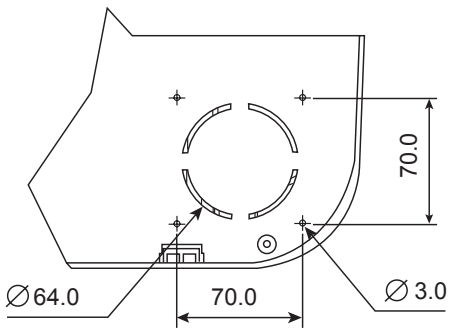


To Adjust the Vane Direction

Adjust the vane linkage as the direction shown to get the required vane direction.

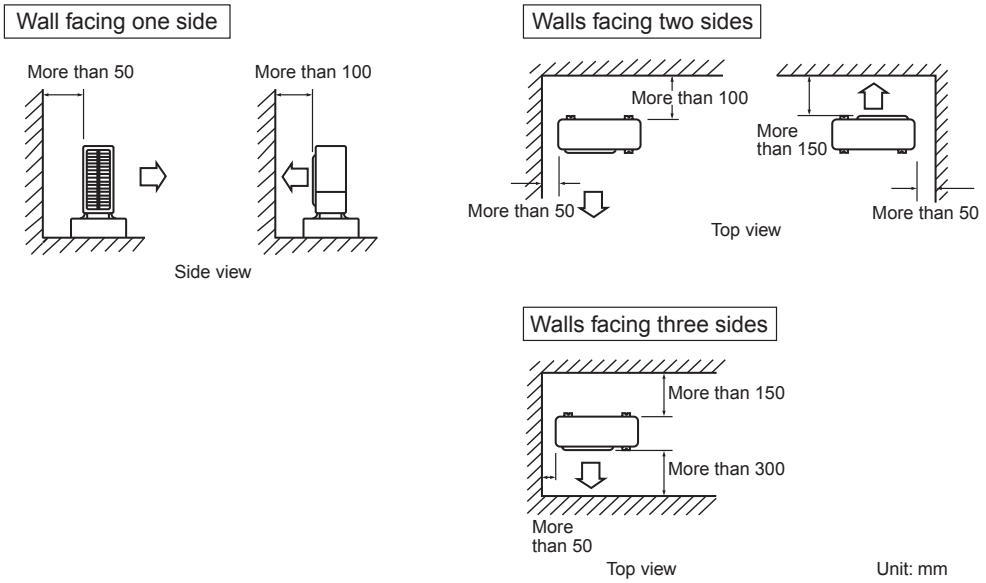


Dimension of the Fresh Air Intake Hole



Outdoor Unit Installation

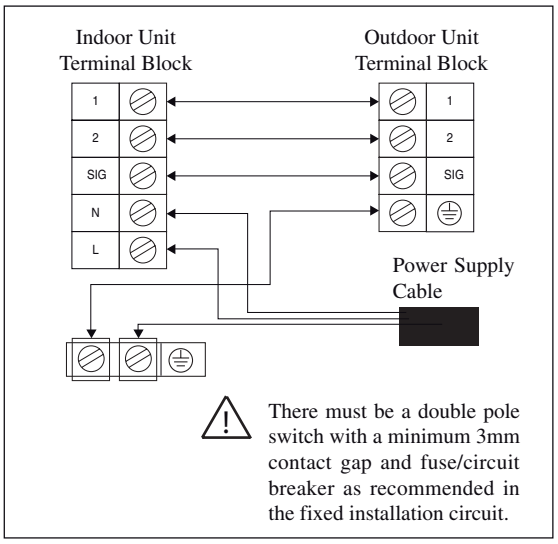
- Where a wall or other obstacle is in the path of outdoor unit's intake or exhaust airflow, follow the installation guidelines below.



Electrical Wiring Connection

IMPORTANT : * The figures shown in the table are for information purpose only. They should be checked and selected to comply with the local/national codes of regulations. This is also subject to the type of installation and conductors used.

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



Model	10/15
Voltage range	220V-240V/ 1Ph/ 50Hz +⏚
Power supply cable size* mm2 Number of core	1.5 3
Power supply cable size* mm2 Number of core	1.5 4
Recommended time delay fuse A	15

* If the length of the cable is more than 2m, use cable with bigger size.

- All wires must be firmly connected.
- All wires must not touch the refrigerant piping, compressor or any moving parts of the fan motor.
- The connecting wires between the indoor unit and the outdoor unit must be clamped on the wire clamps.
- The power supply cord must be equivalent to H07RN-F (245IEC57) which is the minimum requirement.

Refrigerant Piping

Piping Length and Elevation

If the pipe is too long, both the capacity and reliability of the unit will drop. As the number of bends increases, resistance to the flow of refrigerant system increases, thus lowering cooling capacity. As a result, the compressor may become defective. Always choose the shortest path and follow the recommendations as tabulated below:

Outdoor	**A5LCY10DR**	**A5LCY15DR**	**A5LCY20CR**	**A5LCY25CR**
Indoor	**A5WMY10JR**	**A5WMY15JR**	**A5WMY20JR**	**A5WMY25JR**
Max. allowable length, m	15	15	30	30
Max. allowable elevation, m	10	10	10	10
Liquid pipe, mm	O.D. 6.4	O.D. 6.4	O.D. 6.4	O.D. 6.4
Gas pipe, mm	O.D. 9.5	O.D. 12.7	O.D. 12.7	O.D. 15.9
Additional charge of refrigerant, g/m (for piping length above 7.5m)	20	20	20	20

Outdoor	**A5LCY10DR**	**A5LCY15DR**	**A5LCY20CR**
Indoor	**A5CKY10CR**	**A5CKY15CR**	**A5CKY20CR**
Max. allowable length, m	15	15	30
Max. allowable elevation, m	10	10	10
Liquid pipe, mm	O.D. 6.4	O.D. 6.4	O.D. 6.4
Gas pipe, mm	O.D. 9.5	O.D. 12.7	O.D. 12.7
Additional charge of refrigerant, g/m (for piping length above 7.5m)	20	20	20

Outdoor	**A5LCY20CR**	**A5LCY25CR**
Indoor	**A5CKY20ER**	**A5CKY25ER**
Max. allowable length, m	30	30
Max. allowable elevation, m	10	10
Liquid pipe, mm	O.D. 6.4	O.D. 6.4
Gas pipe, mm	O.D. 12.7	O.D. 15.9
Additional charge of refrigerant, g/m (for piping length above 7.5m)	20	20

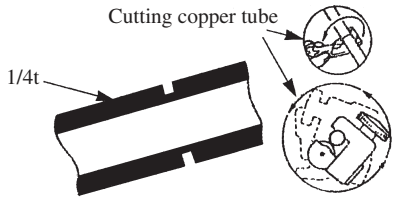
Outdoor	**A5LCY10DR**	**A5LCY15DR**	**A5LCY20CR**	**A5LCY25CR**
Indoor	**A5CCY10CR**	**A5CCY15CR**	**A5CCY20CR**	**A5CCY25CR**
Max. allowable length, m	15	15	30	30
Max. allowable elevation, m	10	10	10	10
Liquid pipe, mm	O.D. 6.4	O.D. 6.4	O.D. 6.4	O.D. 6.4
Gas pipe, mm	O.D. 9.5	O.D. 12.7	O.D. 12.7	O.D. 15.9
Additional charge of refrigerant, g/m (for piping length above 7.5m)	20	20	20	20

Outdoor	**A5LCY15DR**	**A5LCY20CR**	**A5LCY25CR**
Indoor	**A5CMY15ER**	**A5CMY20ER**	**A5CMY25ER**
Max. allowable length, m	15	30	30
Max. allowable elevation, m	10	10	10
Liquid pipe, mm	O.D. 6.4	O.D. 6.4	O.D. 6.4
Gas pipe, mm	O.D. 12.7	O.D. 12.7	O.D. 15.9
Additional charge of refrigerant, g/m (for piping length above 7.5m)	20	20	20

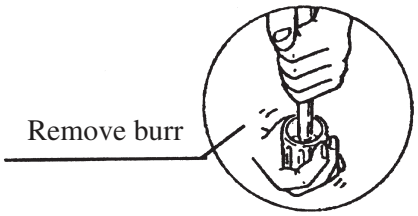
* Be sure to add the proper amount of additional refrigerant. Failure to do so may result in reduced performance.
Remark: The refrigerant pre-charged in the outdoor unit is for piping length up to 7.5m.

Piping Works

- Do not use contaminated or damaged copper tubing. Do not remove plastic, rubber plugs and brass nuts from the valves, fittings, tubings and coils until you are 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 connection pipe with a pipe cutter.

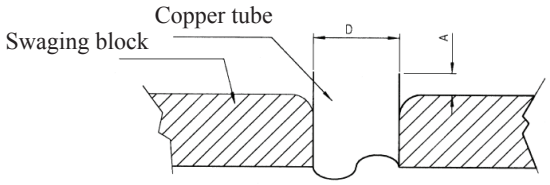


- Remove burrs from cut edges of the pipes with remover. Hold the end of the pipe downwards to prevent metal chips from entering the pipe.



- Insert the flare nuts, mounted on the connection parts of both the indoor unit and outdoor unit onto the copper pipes.
- Flare the pipe with extra length above the flaring tool as shown in the table.
- The flared edge must be even and not cracked or scratched.

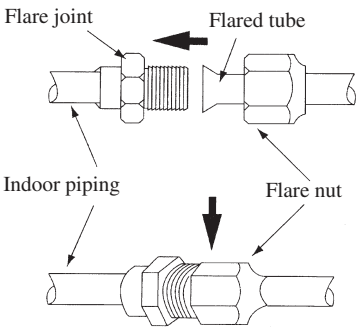
Ø Tube,		A (mm)	
Inch	mm	Imperial Die	Rigid Die
1/4	6.35	1.3	0.7
3/8	9.52	1.6	1.0
1/2	12.70	1.9	1.3
5/8	15.88	2.2	1.7
3/4	19.05	2.5	2.0

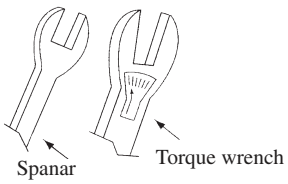


Piping Connection to the Units

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

Pipe Size (mm/in)	Torque (Nm)/(ft - lb)
6.35 (1/4)	18 (13.3)
9.52 (3/8)	42 (31.0)
12.70 (1/2)	55 (40.6)
15.88 (5/8)	65 (48.0)
19.05 (3/4)	78 (57.6)



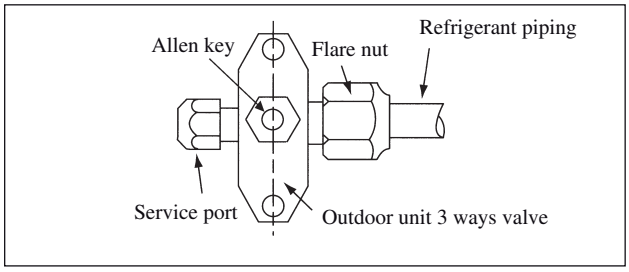


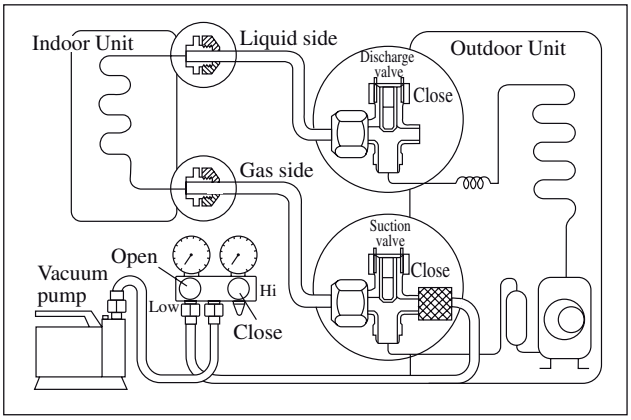
Vacuuming and Charging

Purging The Piping And The Indoor Unit

Except for the outdoor unit which is pre-charged with refrigerant, the indoor unit and the refrigerant connection pipes must be air-purged because the air containing moisture that remains in the refrigerant cycle may cause malfunction of the compressor.

- Remove the caps from the valve and the service port.
- Connect the center of the charging gauge to the vacuum pump.
- Connect the charging gauge to the service port of the 3-way valve.
- Start the vacuum pump. Evacuate for approximately 30 minutes. The evacuation time varies with different vacuum pump capacity. Confirm that the charging gauge needle has moved towards -760mmHg.





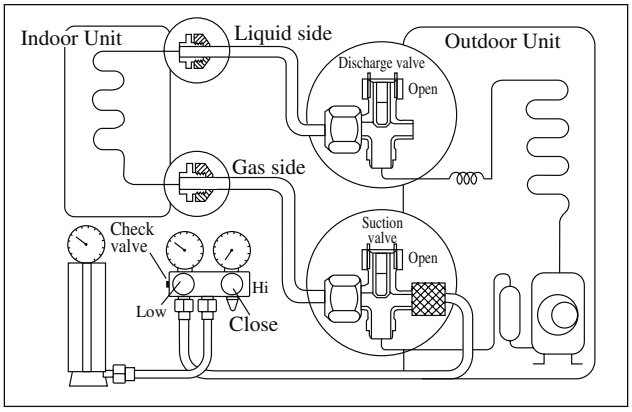
Caution

- If the gauge needle does not move to -760mmHg, be sure to check for gas leaks (using the refrigerant detector) at flare type connection of the indoor and outdoor unit and repair the leak before proceeding to the next step.
- Close the valve of the charging gauge and stop the vacuum pump.
- On the outdoor unit, open the suction valve (3 way) and liquid valve (2 way) (in anti-clockwise direction) with 4mm key for hexagon sacked screw.

Charge Operation

This operation must be done by using a gas cylinder and a precise weighing machine. The additional charge is topped-up into the outdoor unit using the suction valve via the service port.

- Remove the service port cap.
- Connect the low pressure side of the charging gauge to the suction service port center of the cylinder tank and close the high pressure side of the gauge. Purge the air from the service hose.
- Start the air conditioner unit.
- Open the gas cylinder and low pressure charging valve.
- When the required refrigerant quantity is pumped into the unit, close the low pressure side and the gas cylinder valve.
- Disconnect the service hose from service port. Put back the service port cap.



Special Precautions when Dealing with R410A Unit

R410A is a new HFC refrigerant which does not damage the ozone layer. The working pressure of this new refrigerant is 1.6 times higher than conventional refrigerant (R22), thus proper installation / servicing is essential.

- Never use refrigerant other than R410A in an air conditioner which designed to operate with R410A.
- POE oil is used as lubricant for R410A compressor, which is different from the mineral oil used for R22 compressor.During installation or servicing, extra precaution must be taken not to expose the R410A system too long to moist air. Residual POE oil in the piping and components can absorb moisture from the air.
- To prevent mischarging, the diameter of the service port on the flare valve is different from that of R22.
- Use tools and materials exclusively for refrigerant R410A. Tools exclusively for R410A are manifold valve, charging hose, pressure gauge, gas leak detector, flare tools, torque wrench, vacuum pump and refrigerant cylinder.
- As an R410A air conditioner incurs higher pressure than R22 units, it is essential to choose the copper pipes correctly. Never use copper pipes thinner than 0.8mm even though they are available in the market.
- If the refrigerant gas leakage occurs during installation / servicing, be sure to ventilate fully. If the refrigerant gas comes into contact with fire, a poisonous gas may occur.
- When installing or removing an air conditioner, do not allow air or moisture to remain in the refrigerant cycle.

Engineering & Physical Data

General Data - Heat pump

MODEL		OUTDOOR UNIT			A5LCY 10DR	A5LCY 15DR
		INDOOR UNIT			A5WMY 10JR	A5WMY 15JR
NOMINAL COOLING CAPACITY				Btu/h	8872 (3754 - 11260)	11942 (4436 - 13307)
				W	2600 (1100 - 3300)	3500 (1300 - 3900)
NOMINAL HEATING CAPACITY				Btu/h	10236 (3412 - 13990)	12966 (3412 - 15696)
				W	3000 (1000 - 4100)	3800 (1000 - 4600)
NOMINAL TOTAL INPUT POWER (COOLING)				W	760	1050
NOMINAL RUNNING CURRENT (COOLING)				A	4.10	5.00
NOMINAL TOTAL INPUT POWER (HEATING)				W	828	1050
NOMINAL RUNNING CURRENT (HEATING)				A	4.00	4.90
POWER SOURCE				V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
EER				W/W	3.42	3.33
COP				W/W	3.62	3.62
REFRIGERANT TYPE					R410A	R410A
REFRIGERANT CONTROL (EXPANSION DEVICE)					OUTDOOR EXV	OUTDOOR EXV
INDOOR UNIT	CONTROL	AIR DISCHARGE			AUTO LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	AUTO LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION			WIRELESS REMOTE CONTROL	WIRELESS REMOTE CONTROL
	AIR FLOW	HIGH		l/s / CFM	153 / 324	160 / 337
		MEDIUM		l/s / CFM	119 / 252	124 / 262
		LOW		l/s / CFM	93 / 197	101 / 213
	SOUND PRESSURE LEVEL (H/M/L/SL)			dBA	40 / 34 / 29 / 25	41 / 34 / 30 / 28
	UNIT DIMENSION	HEIGHT		mm/in	288 / 11.3	288 / 11.3
		WIDTH		mm/in	800 / 31.5	800 / 31.5
		DEPTH		mm/in	204 / 8.0	204 / 8.0
	PACKING DIMENSION	HEIGHT		mm/in	350 / 13.8	350 / 13.8
		WIDTH		mm/in	894 / 35.2	894 / 35.2
		DEPTH		mm/in	280 / 11.0	280 / 11.0
	UNIT WEIGHT			kg/lb	9 / 19.9	9 / 19.9
	CONDENSATE DRAIN SIZE			mm/in	16 / 0.63	16 / 0.63
OUTDOOR UNIT	AIR FLOW			l/s / CFM	521 / 1100	473 / 1000
	SOUND PRESSURE LEVEL			dBA	48	49
	UNIT DIMENSION	HEIGHT		mm/in	550 / 21.7	550 / 21.7
		WIDTH		mm/in	765 / 30.1	765 / 30.1
		DEPTH		mm/in	285 / 11.2	285 / 11.2
	PACKING DIMENSION	HEIGHT		mm/in	610 / 24.0	610 / 24.0
		WIDTH		mm/in	895 / 35.2	895 / 35.2
		DEPTH		mm/in	360 / 14.2	360 / 14.2
	UNIT WEIGHT			kg/lb	31 / 68.4	33 / 72.8
	PIPE CONNECTION	TYPE			FLARE VALVE	FLARE VALVE
		SIZE	LIQUID	mm/in	6.4 / 1/4	6.4 / 1/4
			GAS	mm/in	9.5 / 3/8	12.7 / 1/2
REFRIGERANT CHARGE				kg/lb	0.75 / 1.65	1.10 / 2.43

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heat pump

MODEL		OUTDOOR UNIT			A5LCY 20CR	A5LCY 25CR
		INDOOR UNIT			A5WMY 20JR	A5WMY 25JR
NOMINAL COOLING CAPACITY				Btu/h	18600 (6415 - 21155)	21200 (6824 - 22178)
				W	5450 (1880 - 6200)	6210 (2000 - 6500)
NOMINAL HEATING CAPACITY				Btu/h	19176 (4504 - 22520)	21837 (5323 - 24226)
				W	5620 (1320 - 6600)	6400 (1560 - 7100)
NOMINAL TOTAL INPUT POWER (COOLING)				W	1460	1880
NOMINAL RUNNING CURRENT (COOLING)				A	6.53	8.45
NOMINAL TOTAL INPUT POWER (HEATING)				W	1500	1710
NOMINAL RUNNING CURRENT (HEATING)				A	6.72	7.63
POWER SOURCE				V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
EER				W/W	3.73	3.30
COP				W/W	3.75	3.74
REFRIGERANT TYPE					R410A	R410A
REFRIGERANT CONTROL (EXPANSION DEVICE)					OUTDOOR EXV	OUTDOOR EXV
INDOOR UNIT	CONTROL	AIR DISCHARGE			4 WAY AUTOMATIC LOUVER (UP & DOWN)	4 WAY AUTOMATIC LOUVER (UP & DOWN)
		OPERATION			WIRELESS REMOTE CONTROL	WIRELESS REMOTE CONTROL
	AIR FLOW	HIGH		l/s / CFM	250 / 529	309 / 654
		MEDIUM		l/s / CFM	222 / 471	276 / 585
		LOW		l/s / CFM	197 / 418	239 / 507
	SOUND PRESSURE LEVEL (H/M/L)			dBA	41 / 39 / 35	44 / 41 / 37
	UNIT DIMENSION	HEIGHT		mm/in	310 / 12.2	310 / 12.2
		WIDTH		mm/in	1065 / 42.0	1065 / 42.0
		DEPTH		mm/in	224 / 8.8	224 / 8.8
	PACKING DIMENSION	HEIGHT		mm/in	386 / 15.2	386 / 15.2
		WIDTH		mm/in	1136 / 44.7	1136 / 44.7
		DEPTH		mm/in	285 / 11.2	285 / 11.2
	UNIT WEIGHT			kg/lb	6.3 / 14	6.3 / 14
	CONDENSATE DRAIN SIZE			mm/in	19.1 / 0.75	19.1 / 0.75
OUTDOOR UNIT	AIR FLOW			l/s / CFM	869 / 1842	869 / 1842
	SOUND PRESSURE LEVEL			dBA	51	51
	UNIT DIMENSION	HEIGHT		mm/in	753 / 29.7	753 / 29.7
		WIDTH		mm/in	922 / 36.3	922 / 36.3
		DEPTH		mm/in	392 / 15.4	392 / 15.4
	PACKING DIMENSION	HEIGHT		mm/in	793 / 31.2	793 / 31.2
		WIDTH		mm/in	990 / 39.0	990 / 39.0
		DEPTH		mm/in	415 / 16.3	415 / 16.3
	UNIT WEIGHT			kg/lb	49 / 107.8	49 / 107.8
	PIPE CONNECTION	TYPE			FLARE VALVE	FLARE VALVE
		SIZE	LIQUID	mm/in	6.4 / 1/4	6.4 / 1/4
			GAS	mm/in	12.7 / 1/2	15.9 / 5/8
REFRIGERANT CHARGE				kg/lb	1.45 / 3.20	1.50 / 3.30

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a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heat pump

MODEL		OUTDOOR UNIT			A5LCY 10DR	A5LCY 15DR
		INDOOR UNIT			A5CKY 10CR	A5CKY 15CR
NOMINAL COOLING CAPACITY				Btu/h	9792 (4026 - 11942)	12385 (5254 - 13306)
				W	2870 (1180 - 3500)	3630 (1540 - 3900)
NOMINAL HEATING CAPACITY				Btu/h	10884 (3753 - 13989)	13239 (3650 - 15865)
				W	3190 (1100 - 4100)	3880 (1070 - 4650)
NOMINAL TOTAL INPUT POWER (COOLING)				W	780	1006
NOMINAL RUNNING CURRENT (COOLING)				A	4.26	4.70
NOMINAL TOTAL INPUT POWER (HEATING)				W	792	1024
NOMINAL RUNNING CURRENT (HEATING)				A	4.01	4.90
POWER SOURCE				V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
EER				W/W	3.68	3.61
COP				W/W	4.03	3.79
REFRIGERANT TYPE					R410A	R410A
REFRIGERANT CONTROL (EXPANSION DEVICE)					OUTDOOR EXV	OUTDOOR EXV
INDOOR UNIT	CONTROL	AIR DISCHARGE			4 WAY AUTOMATIC LOUVER (UP & DOWN)	4 WAY AUTOMATIC LOUVER (UP & DOWN)
		OPERATION			WIRELESS OR WIRED REMOTE CONTROL	WIRELESS OR WIRED REMOTE CONTROL
	AIR FLOW	HIGH		l/s / CFM	193 / 400	193 / 410
		MEDIUM		l/s / CFM	184 / 390	184 / 390
		LOW		l/s / CFM	170 / 360	170 / 360
	SOUND PRESSURE LEVEL (H/M/L)			dBA	44 / 43 / 42	44 / 42 / 41
	UNIT DIMENSION (WITH PANEL)	HEIGHT		mm/in	250 (295) / 9.8 (11.6)	250 (295) / 9.8 (11.6)
		WIDTH		mm/in	570 (640) / 22.4 (25.2)	570 (640) / 22.4 (25.2)
		DEPTH		mm/in	570 (640) / 22.4 (25.2)	570 (640) / 22.4 (25.2)
	PACKING DIMENSION (WITH PANEL)	HEIGHT		mm/in	317 (127) / 12.5 (5.0)	317 (127) / 12.5 (5.0)
		WIDTH		mm/in	630 (700) / 24.8 (27.6)	630 (700) / 24.8 (27.6)
		DEPTH		mm/in	630 (700) / 24.8 (27.6)	630 (700) / 24.8 (27.6)
	UNIT WEIGHT (UNIT + PANEL)			kg/lb	22 + 2.0 / 49 + 4.0	23 + 2.0 / 51 + 4.0
	CONDENSATE DRAIN SIZE			mm/in	19.1 / 0.75	19.1 / 0.75
OUTDOOR UNIT	AIR FLOW			l/s / CFM	521 / 1100	473 / 1000
	SOUND PRESSURE LEVEL			dBA	46	49
	UNIT DIMENSION	HEIGHT		mm/in	550 / 21.7	550 / 21.7
		WIDTH		mm/in	765 / 30.1	765 / 30.1
		DEPTH		mm/in	285 / 11.2	285 / 11.2
	PACKING DIMENSION	HEIGHT		mm/in	610 / 24.0	610 / 24.0
		WIDTH		mm/in	895 / 35.2	895 / 35.2
		DEPTH		mm/in	360 / 14.2	360 / 14.2
	UNIT WEIGHT			kg/lb	31 / 68.4	33 / 72.8
	PIPE CONNECTION	TYPE			FLARE VALVE	FLARE VALVE
		SIZE	LIQUID	mm/in	6.4 / 1/4	6.4 / 1/4
			GAS	mm/in	9.5 / 3/8	12.7 / 1/2
REFRIGERANT CHARGE				kg/lb	0.75 / 1.65	1.10 / 2.43

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heat pump

MODEL		OUTDOOR UNIT		A5LCY 20CR	
		INDOOR UNIT		A5CKY 20CR	
NOMINAL COOLING CAPACITY			Btu/h	18118 (6346 - 20643)	
			W	5310 (1860 - 6050)	
NOMINAL HEATING CAPACITY			Btu/h	19039 (5050 - 19517)	
			W	5580 (1480 - 5720)	
NOMINAL TOTAL INPUT POWER (COOLING)			W	1654	
NOMINAL RUNNING CURRENT (COOLING)			A	7.26	
NOMINAL TOTAL INPUT POWER (HEATING)			W	1701	
NOMINAL RUNNING CURRENT (HEATING)			A	7.78	
POWER SOURCE			V/Ph/Hz	220 - 240 / 1 / 50	
EER			W/W	3.21	
COP			W/W	3.28	
REFRIGERANT TYPE				R410A	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR EXV	
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
		OPERATION		WIRELESS OR WIRED REMOTE CONTROL	
	AIR FLOW	HIGH	l/s / CFM	212 / 450	
		MEDIUM	l/s / CFM	203 / 430	
		LOW	l/s / CFM	193 / 410	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	47 / 46 / 44	
	UNIT DIMENSION (WITH PANEL)	HEIGHT	mm/in	250 (295) / 9.8 (11.6)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)	
	PACKING DIMENSION (WITH PANEL)	HEIGHT	mm/in	317 (127) / 12.5 (5.0)	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)	
	UNIT WEIGHT (UNIT + PANEL)		kg/lb	23 + 2.0 / 51 + 4.0	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 0.75	
OUTDOOR UNIT	AIR FLOW		l/s / CFM	869 / 1842	
	SOUND PRESSURE LEVEL		dBA	51	
	UNIT DIMENSION	HEIGHT	mm/in	753 / 29.7	
		WIDTH	mm/in	922 / 36.3	
		DEPTH	mm/in	392 / 15.4	
	PACKING DIMENSION	HEIGHT	mm/in	793 / 31.2	
		WIDTH	mm/in	990 / 39.0	
		DEPTH	mm/in	415 / 16.3	
	UNIT WEIGHT		kg/lb	49 / 107.8	
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE LIQUID	mm/in	6.4 / 1/4	
		SIZE GAS	mm/in	12.7 / 1/2	
REFRIGERANT CHARGE			kg/lb	1.45 / 3.20	

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heat pump

MODEL		**OUTDOOR UNIT**			**A5LCY 20CR**	**A5LCY 25CR**
		INDOOR UNIT			**A5CKY 20ER**	**A5CKY 25ER**
NOMINAL COOLING CAPACITY				**Btu/h**	18459 (5220 - 20608)	21564 (2081 - 21564)
				W	5410 (1530 - 6040)	6320 (610 - 6320)
NOMINAL HEATING CAPACITY				**Btu/h**	18868 (5323 - 20574)	22212 (5357 - 24873)
				W	5530 (1560 - 6030)	6510 (1570 - 7290)
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	1587	1945
NOMINAL RUNNING CURRENT (COOLING)				**A**	7.37	8.89
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	1495	1632
NOMINAL RUNNING CURRENT (HEATING)				**A**	6.96	7.53
POWER SOURCE				**V/Ph/Hz**	220 - 240 / 1 / 50	220 - 240 / 1 / 50
EER				**W/W**	3.41	3.25
COP				**W/W**	3.70	3.99
REFRIGERANT TYPE					R410A	R410A
REFRIGERANT CONTROL (EXPANSION DEVICE)					OUTDOOR EXV	OUTDOOR EXV
INDOOR UNIT	**CONTROL**	**AIR DISCHARGE**			4 WAY AUTOMATIC LOUVER (UP & DOWN)	4 WAY AUTOMATIC LOUVER (UP & DOWN)
		OPERATION			WIRELESS OR WIRED REMOTE CONTROL	WIRELESS OR WIRED REMOTE CONTROL
	AIR FLOW	**HIGH**		**l/s / CFM**	283 / 600	321 / 680
		MEDIUM		**l/s / CFM**	250 / 530	283 / 600
		LOW		**l/s / CFM**	203 / 430	250 / 530
	SOUND PRESSURE LEVEL (H/M/L)			**dBA**	34 / 31 / 28	37 / 34 / 31
	UNIT DIMENSION (WITH PANEL)	**HEIGHT**		**mm/in**	265 (340) / 10.4 (13.4)	265 (340) / 10.4 (13.4)
		WIDTH		**mm/in**	820 (990) / 32.3 (39.0)	820 (990) / 32.3 (39.0)
		DEPTH		**mm/in**	820 (990) / 32.3 (39.0)	820 (990) / 32.3 (39.0)
	PACKING DIMENSION (WITH PANEL)	**HEIGHT**		**mm/in**	335 (410) / 13.2 (16.1)	335 (410) / 13.2 (16.1)
		WIDTH		**mm/in**	900 (1070) / 35.4 (42.1)	900 (1070) / 35.4 (42.1)
		DEPTH		**mm/in**	900 (1070) / 35.4 (42.1)	900 (1070) / 35.4 (42.1)
	UNIT WEIGHT (UNIT + PANEL)			**kg/lb**	29 + 6.0 / 64 + 13.2	29 + 6.0 / 64 + 13.2
	CONDENSATE DRAIN SIZE			**mm/in**	19.1 / 0.75	19.1 / 0.75
OUTDOOR UNIT	**AIR FLOW**			**l/s / CFM**	869 / 1842	869 / 1842
	SOUND PRESSURE LEVEL			**dBA**	51	51
	UNIT DIMENSION	**HEIGHT**		**mm/in**	753 / 29.7	753 / 29.7
		WIDTH		**mm/in**	922 / 36.3	922 / 36.3
		DEPTH		**mm/in**	392 / 15.4	392 / 15.4
	PACKING DIMENSION	**HEIGHT**		**mm/in**	793 / 31.2	793 / 31.2
		WIDTH		**mm/in**	990 / 39.0	990 / 39.0
		DEPTH		**mm/in**	415 / 16.3	415 / 16.3
	UNIT WEIGHT			**kg/lb**	49 / 107.8	49 / 107.8
	PIPE CONNECTION	**TYPE**			FLARE VALVE	FLARE VALVE
		SIZE	**LIQUID**	**mm/in**	6.4 / 1/4	6.4 / 1/4
			GAS	**mm/in**	12.7 / 1/2	15.9 / 5/8
REFRIGERANT CHARGE				**kg/lb**	1.45 / 3.20	1.50 / 3.30

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heat pump

MODEL		OUTDOOR UNIT			A5LCY 10DR	A5LCY 15DR
		INDOOR UNIT			A5CCY 10CR	A5CCY 15CR
NOMINAL COOLING CAPACITY				Btu/h	8769 (4504 - 11361)	12522 (5050 - 12829)
				W	2570 (1320 - 3330)	3670 (1480 - 3760)
NOMINAL HEATING CAPACITY				Btu/h	9451 (2389 - 12897)	12624 (3719 - 14671)
				W	2770 (700 - 3780)	3700 (1090 - 4300)
NOMINAL TOTAL INPUT POWER (COOLING)				W	791	1089
NOMINAL RUNNING CURRENT (COOLING)				A	4.43	4.91
NOMINAL TOTAL INPUT POWER (HEATING)				W	812	1066
NOMINAL RUNNING CURRENT (HEATING)				A	4.29	4.80
POWER SOURCE				V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
EER				W/W	3.25	3.37
COP				W/W	3.41	3.47
REFRIGERANT TYPE					R410A	R410A
REFRIGERANT CONTROL (EXPANSION DEVICE)					OUTDOOR EXV	OUTDOOR EXV
INDOOR UNIT	CONTROL	AIR DISCHARGE			DUCTED	DUCTED
		OPERATION			WIRELESS OR WIRED REMOTE CONTROL	WIRELESS OR WIRED REMOTE CONTROL
	AIR FLOW	HIGH		l/s / CFM	172 / 365	194 / 410
		MEDIUM		l/s / CFM	160 / 340	175 / 370
		LOW		l/s / CFM	137 / 290	118 / 250
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa / mmAq	29 / 25 / 19 (0.12 / 0.10 / 0.08)	29 / 20 / 10 (0.12 / 0.08 / 0.04)
	SOUND PRESSURE LEVEL (H/M/L)			dBA	35 / 32 / 26	37 / 34 / 29
	UNIT DIMENSION	HEIGHT		mm/in	261 / 10.3	261 / 10.3
		WIDTH		mm/in	765 / 30.1	765 / 30.1
		DEPTH		mm/in	411 / 16.2	411 / 16.2
	PACKING DIMENSION	HEIGHT		mm/in	376 / 14.8	376 / 14.8
		WIDTH		mm/in	1091 / 43.0	1091 / 43.0
		DEPTH		mm/in	541 / 21.3	541 / 21.3
	UNIT WEIGHT			kg/lb	21 / 9.5	21 / 9.5
	CONDENSATE DRAIN SIZE			mm/in	19.1 / 0.75	19.1 / 0.75
OUTDOOR UNIT	AIR FLOW			l/s / CFM	521 / 1100	473 / 1000
	SOUND PRESSURE LEVEL			dBA	48	49
	UNIT DIMENSION	HEIGHT		mm/in	550 / 21.7	550 / 21.7
		WIDTH		mm/in	765 / 30.1	765 / 30.1
		DEPTH		mm/in	285 / 11.2	285 / 11.2
	PACKING DIMENSION	HEIGHT		mm/in	610 / 24.0	610 / 24.0
		WIDTH		mm/in	895 / 35.2	895 / 35.2
		DEPTH		mm/in	360 / 14.2	360 / 14.2
	UNIT WEIGHT			kg/lb	31 / 68.4	33 / 72.8
	PIPE CONNECTION	TYPE			FLARE VALVE	FLARE VALVE
		SIZE	LIQUID	mm/in	6.4 / 1/4	6.4 / 1/4
			GAS	mm/in	9.5 / 3/8	12.7 / 1/2
REFRIGERANT CHARGE				kg/lb	0.75 / 1.65	1.10 / 2.43

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b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
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General Data - Heat pump

MODEL		OUTDOOR UNIT			A5LCY 20CR	A5LCY 25CR
		INDOOR UNIT			A5CCY 20CR	A5CCY 25CR
NOMINAL COOLING CAPACITY				Btu/h	17742 (6892 - 20472)	20643 (6346 - 20643)
				W	5200 (2020 - 6000)	6050 (1860 - 6050)
NOMINAL HEATING CAPACITY				Btu/h	19687 (5391 - 22895)	21873 (5357 - 22758)
				W	5770 (1580 - 6710)	6400 (1570 - 6670)
NOMINAL TOTAL INPUT POWER (COOLING)				W	1604	1917
NOMINAL RUNNING CURRENT (COOLING)				A	7.34	8.90
NOMINAL TOTAL INPUT POWER (HEATING)				W	1694	1775
NOMINAL RUNNING CURRENT (HEATING)				A	7.74	8.11
POWER SOURCE				V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
EER				W/W	3.24	3.21
COP				W/W	3.41	3.66
REFRIGERANT TYPE					R410A	R410A
REFRIGERANT CONTROL (EXPANSION DEVICE)					OUTDOOR EXV	OUTDOOR EXV
INDOOR UNIT	CONTROL	AIR DISCHARGE			DUCTED	DUCTED
		OPERATION			WIRELESS OR WIRED REMOTE CONTROL	WIRELESS OR WIRED REMOTE CONTROL
	AIR FLOW	HIGH		l/s / CFM	269 / 570	326 / 690
		MEDIUM		l/s / CFM	255 / 540	302 / 640
		LOW		l/s / CFM	213 / 450	245 / 520
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa / (in.wq)	29 / 20 / 10 (0.12 / 0.08 / 0.04)	29 / 20 / 10 (0.12 / 0.08 / 0.04)
	SOUND PRESSURE LEVEL (H/M/L)			dBA	38 / 36 / 34	40 / 39 / 36
	UNIT DIMENSION	HEIGHT		mm/in	261 / 10.3	261 / 10.3
		WIDTH		mm/in	1065 / 41.9	1200 / 47.2
		DEPTH		mm/in	411 / 16.2	411 / 16.2
	PACKING DIMENSION	HEIGHT		mm/in	376 / 14.8	376 / 14.8
		WIDTH		mm/in	1251 / 49.3	1386 / 54.6
		DEPTH		mm/in	541 / 21.3	541 / 21.3
	UNIT WEIGHT			kg/lb	9.5 / 21	11.3 / 25
	CONDENSATE DRAIN SIZE			mm/in	19.1 / 0.75	19.1 / 0.75
OUTDOOR UNIT	AIR FLOW			l/s / CFM	869 / 1842	869 / 1842
	SOUND PRESSURE LEVEL			dBA	51	51
	UNIT DIMENSION	HEIGHT		mm/in	753 / 29.7	753 / 29.7
		WIDTH		mm/in	922 / 36.3	922 / 36.3
		DEPTH		mm/in	392 / 15.4	392 / 15.4
	PACKING DIMENSION	HEIGHT		mm/in	793 / 31.2	793 / 31.2
		WIDTH		mm/in	990 / 39.0	990 / 39.0
		DEPTH		mm/in	415 / 16.3	415 / 16.3
	UNIT WEIGHT			kg/lb	49 / 107.8	49 / 107.8
	PIPE CONNECTION	TYPE			FLARE VALVE	FLARE VALVE
		SIZE	LIQUID	mm/in	6.4 / 1/4	6.4 / 1/4
			GAS	mm/in	12.7 / 1/2	15.9 / 5/8
REFRIGERANT CHARGE				kg/lb	1.45 / 3.20	1.50 / 3.30

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General Data - Heat pump

MODEL		OUTDOOR UNIT			A5LCY 15DR	A5LCY 20CR
		INDOOR UNIT			A5CMY 15ER	A5CMY 20ER
NOMINAL COOLING CAPACITY				Btu/h	12249 (5936 - 14671)	18322 (5527 - 20199)
				W	3590 (1740 - 4300)	5370 (1620 - 5920)
NOMINAL HEATING CAPACITY				Btu/h	13170 (3650 - 16991)	19039 (5220 - 20199)
				W	3860 (1070 - 4980)	5580 (1530 - 5920)
NOMINAL TOTAL INPUT POWER (COOLING)				W	928	1683
NOMINAL RUNNING CURRENT (COOLING)				A	4.55	7.75
NOMINAL TOTAL INPUT POWER (HEATING)				W	972	1617
NOMINAL RUNNING CURRENT (HEATING)				A	4.68	7.45
POWER SOURCE				V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
EER				W/W	3.87	3.19
COP				W/W	3.97	3.45
REFRIGERANT TYPE					R410A	R410A
REFRIGERANT CONTROL (EXPANSION DEVICE)					OUTDOOR EXV	OUTDOOR EXV
INDOOR UNIT	CONTROL	AIR DISCHARGE			AUTOMATIC LOUVER (UP & DOWN)	AUTOMATIC LOUVER (UP & DOWN)
		OPERATION			WIRELESS OR WIRED REMOTE CONTROL	WIRELESS OR WIRED REMOTE CONTROL
	AIR FLOW	HIGH		l/s / CFM	240 / 508	245 / 520
		MEDIUM		l/s / CFM	182 / 386	217 / 460
		LOW		l/s / CFM	165 / 350	192 / 406
	SOUND PRESSURE LEVEL (H/M/L)			dBA	48 / 43 / 41	50 / 43 / 41
	UNIT DIMENSION	HEIGHT		mm/in	218 / 8.6	218 / 8.6
		WIDTH		mm/in	1080 / 42.5	1080 / 42.5
		DEPTH		mm/in	630 / 24.8	630 / 24.8
	PACKING DIMENSION	HEIGHT		mm/in	297 / 11.7	297 / 11.7
		WIDTH		mm/in	1197 / 47.1	1197 / 47.1
		DEPTH		mm/in	740 / 29.1	740 / 29.1
	UNIT WEIGHT			kg/lb	25 / 55.1	27 / 59.5
	CONDENSATE DRAIN SIZE			mm/in	19.1 / 0.75	19.1 / 0.75
OUTDOOR UNIT	AIR FLOW			l/s / CFM	473 / 1000	869 / 1842
	SOUND PRESSURE LEVEL			dBA	49	51
	UNIT DIMENSION	HEIGHT		mm/in	550 / 21.7	753 / 29.7
		WIDTH		mm/in	765 / 30.1	922 / 36.3
		DEPTH		mm/in	285 / 11.2	392 / 15.4
	PACKING DIMENSION	HEIGHT		mm/in	610 / 24.0	793 / 31.2
		WIDTH		mm/in	895 / 35.2	990 / 39.0
		DEPTH		mm/in	360 / 14.2	415 / 16.3
	UNIT WEIGHT			kg/lb	33 / 72.8	49 / 107.8
	PIPE CONNECTION	TYPE			FLARE VALVE	FLARE VALVE
		SIZE	LIQUID	mm/in	6.4 / 1/4	6.4 / 1/4
			GAS	mm/in	12.7 / 1/2	12.7 / 1/2
REFRIGERANT CHARGE				kg/lb	1.10 / 2.43	1.45 / 3.20

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General Data - Heat pump

MODEL	OUTDOOR UNIT			A5LCY 25DR	
	INDOOR UNIT			A5CMY 25ER	
NOMINAL COOLING CAPACITY			Btu/h	20608 (5323 - 21291)	
			W	6040 (1560 - 6240)	
NOMINAL HEATING CAPACITY			Btu/h	21086 (5596 - 21700)	
			W	6180 (164 - 6360)	
NOMINAL TOTAL INPUT POWER (COOLING)			W	2007	
NOMINAL RUNNING CURRENT (COOLING)			A	9.23	
NOMINAL TOTAL INPUT POWER (HEATING)			W	1873	
NOMINAL RUNNING CURRENT (HEATING)			A	8.52	
POWER SOURCE			V/Ph/Hz	220 - 240 / 1 / 50	
EER			W/W	3.01	
COP			W/W	3.30	
REFRIGERANT TYPE				R410A	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR EXV	
INDOOR UNIT	CONTROL	AIR DISCHARGE		AUTOMATIC LOUVER (UP & DOWN)	
		OPERATION		WIRELESS OR WIRED REMOTE CONTROL	
	AIR FLOW	HIGH	l/s / CFM	274 / 580	
		MEDIUM	l/s / CFM	250 / 530	
		LOW	l/s / CFM	231 / 490	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	53 / 51 / 49	
	UNIT DIMENSION	HEIGHT	mm/in	218 / 8.6	
		WIDTH	mm/in	1080 / 42.5	
		DEPTH	mm/in	630 / 24.8	
	PACKING DIMENSION	HEIGHT	mm/in	297 / 11.7	
		WIDTH	mm/in	1197 / 47.1	
		DEPTH	mm/in	740 / 29.1	
	UNIT WEIGHT		kg/lb	27 / 59.5	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 0.75	
OUTDOOR UNIT	AIR FLOW		l/s / CFM	869 / 1842	
	SOUND PRESSURE LEVEL		dBA	51	
	UNIT DIMENSION	HEIGHT	mm/in	753 / 29.7	
		WIDTH	mm/in	922 / 36.3	
		DEPTH	mm/in	392 / 15.4	
	PACKING DIMENSION	HEIGHT	mm/in	793 / 31.2	
		WIDTH	mm/in	990 / 39.0	
		DEPTH	mm/in	415 / 16.3	
	UNIT WEIGHT		kg/lb	49 / 107.8	
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE LIQUID	mm/in	6.4 / 1/4	
		SIZE GAS	mm/in	15.9 / 5/8	
REFRIGERANT CHARGE			kg/lb	1.50 / 3.30	

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b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

Component Data - Heat Pump

MODEL	OUTDOOR UNIT			A5LCY 10DR	A5LCY 15DR
	INDOOR UNIT			A5WMY 10JR	A5WMY 15JR
INDOOR FAN	TYPE			CROSS FLOW FAN	CROSS FLOW FAN
	QUANTITY			1	1
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN	GLASS REINFORCED ACRYL STYRENE RESIN
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	92 / 3.6	92 / 3.6
	LENGTH		mm/in	607 / 23.9	607 / 23.9
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP44	IP44
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			GLASS REINFORCED POLYPROPYLENE RESIN	GLASS REINFORCED POLYPROPYLENE RESIN
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	400 / 15.7	400 / 15.7
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP24	IP24
COMPRESSOR	TYPE			ROTARY	ROTARY
	OIL TYPE			RB68A or FREOL ALPHA68M	RB68A or FREOL ALPHA68M
	OIL AMOUNT		cm^3 / fl.oz.	320 / 11.3	320 / 11.3
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.276	7.00 / 0.276
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (HYDROPHILIC FIN)
		THICKNESS	mm/in	0.10 / 0.004	0.10 / 0.004
		FACE AREA	m^2/ft^2	0.18 / 1.937	0.18 / 1.937
		ROW		2	2
		FIN PER INCH		18	18
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.276	7.00 / 0.276
		THICKNESS	mm/in	0.24 / 0.009	0.24 / 0.009
	FIN	MATERIAL		ALUMINIUM (CORR.)	ALUMINIUM (CORR.)
		THICKNESS	mm/in	0.10 / 0.004	0.10 / 0.004
		FACE AREA	m^2/ft^2	0.42 / 4.520	0.40 / 4.304
		ROW		1	2
		FIN PER INCH		18	18
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY	pc	2	2
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	HIGH IMPACT POLYSTYRENE
			FINISHING	MAT	MAT
			COLOUR	WHITE	WHITE
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

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Component Data - Heat Pump

MODEL	OUTDOOR UNIT			A5LCY 20CR	A5LCY 25CR
	INDOOR UNIT			A5WMY 20JR	A5WMY 25JR
INDOOR FAN	TYPE			CROSS FLOW FAN	CROSS FLOW FAN
	QUANTITY			1	1
	MATERIAL			RESIN ASG	RESIN ASG
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	102 / 4.0	102 / 4.0
	LENGTH		mm/in	867 / 34.1	867 / 34.1
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP20	IP20
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			MRP421L2BC	MRP421L2BC
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	455 / 17.9	455 / 17.9
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP34	IP34
COMPRESSOR	TYPE			ROTARY SWING	ROTARY SWING
	OIL TYPE			ETHER	ETHER
	OIL AMOUNT		cm^3 / fl.oz.	N/A	N/A
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.276	7.00 / 0.276
		THICKNESS	mm/in	0.24 / 0.009	0.24 / 0.009
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (HYDROPHILIC FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	0.29 / 3.10	0.29 / 3.10
		ROW		2	2
		FIN PER INCH		18	18
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.276	7.00 / 0.276
		THICKNESS	mm/in	0.24 / 0.009	0.24 / 0.009
	FIN	MATERIAL		ALUMINIUM (CORR.)	ALUMINIUM (CORR.)
		THICKNESS	mm/in	0.10 / 0.004	0.10 / 0.004
		FACE AREA	m^2/ft^2	0.62 / 6.64	0.62 / 6.64
		ROW		2	2
		FIN PER INCH		20	20
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY	pc	2	2
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	HIGH IMPACT POLYSTYRENE
			FINISHING	ETCHING	ETCHING
			COLOUR	WHITE	WHITE
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

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Component Data - Heat Pump

MODEL	OUTDOOR UNIT			A5LCY 10DR	A5LCY 15DR
	INDOOR UNIT			A5CKY 10CR	A5CKY 15CR
INDOOR FAN	TYPE			TURBO	TURBO
	QUANTITY			1	1
	MATERIAL			ABSG20	ABSG20
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	315 / 12.4	315 / 12.4
	LENGTH		mm/in	163 / 6.4	163 / 6.4
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP20	IP20
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			GLASS REINFORCED POLYPROPYLENE RESIN	GLASS REINFORCED POLYPROPYLENE RESIN
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	400 / 15.7	400 / 15.7
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP24	IP24
COMPRESSOR	TYPE			ROTARY	ROTARY
	OIL TYPE			RB68A or FREOL ALPHA68M	RB68A or FREOL ALPHA68M
	OIL AMOUNT		cm^3 / fl.oz.	320 / 11.3	320 / 11.3
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.28	7.00 / 0.276
		THICKNESS	mm/in	0.24 / 0.009	0.24 / 0.009
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (HYDROPHILIC FIN)
		THICKNESS	mm/in	0.105 / 0.004	0.105 / 0.004
		FACE AREA	m^2/ft^2	0.25 / 2.73	0.25 / 2.73
		ROW		2	2
		FIN PER INCH		20	20
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.276	7.00 / 0.276
		THICKNESS	mm/in	0.24 / 0.009	0.24 / 0.009
	FIN	MATERIAL		ALUMINIUM (CORR.)	ALUMINIUM (CORR.)
		THICKNESS	mm/in	0.10 / 0.004	0.10 / 0.004
		FACE AREA	m^2/ft^2	0.42 / 4.520	0.40 / 4.304
		ROW		1	2
		FIN PER INCH		18	18
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY	pc	1	1
CASING	INDOOR UNIT		MATERIAL	GALVANISED IRON	GALVANISED IRON
			FINISHING	WITH PE INSULATION	WITH PE INSULATION
			COLOUR	GREY	GREY
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Component Data - Heat Pump

MODEL	**OUTDOOR UNIT**			**A5LCY 20CR**	
	INDOOR UNIT			**A5CKY 20CR**	
INDOOR FAN	**TYPE**			TURBO	
	QUANTITY			1	
	MATERIAL			ABSG20	
	DRIVE			DIRECT	
	DIAMETER		**mm/in**	315 / 12.4	
	LENGTH		**mm/in**	163 / 6.4	
INDOOR FAN MOTOR	**TYPE**			INDUCTION	
	QUANTITY			1	
	INDEX OF PROTECTION (IP)			IP20	
OUTDOOR FAN	**TYPE**			PROPELLER	
	QUANTITY			1	
	MATERIAL			MRP421L2BC	
	DRIVE			DIRECT	
	DIAMETER		**mm/in**	455 / 17.9	
OUTDOOR FAN MOTOR	**TYPE**			INDUCTION	
	QUANTITY			1	
	INDEX OF PROTECTION (IP)			IP34	
COMPRESSOR	**TYPE**			ROTARY SWING	
	OIL TYPE			ETHER	
	OIL AMOUNT		**cm^3 / fl.oz.**	N/A	
INDOOR COIL	**TUBE**	**MATERIAL**		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	**mm/in**	7.00 / 0.276	
		THICKNESS	**mm/in**	0.24 / 0.009	
	FIN	**MATERIAL**		ALUMINIUM (HYDROPHILIC FIN)	
		THICKNESS	**mm/in**	0.11 / 0.004	
		FACE AREA	**m^2/ft^2**	0.25 / 2.73	
		ROW		2	
		FIN PER INCH		20	
OUTDOOR COIL	**TUBE**	**MATERIAL**		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	**mm/in**	7.00 / 0.276	
		THICKNESS	**mm/in**	0.24 / 0.009	
	FIN	**MATERIAL**		ALUMINIUM (CORR.)	
		THICKNESS	**mm/in**	0.10 / 0.004	
		FACE AREA	**m^2/ft^2**	0.62 / 6.64	
		ROW		2	
		FIN PER INCH		20	
AIR QUALITY	**FILTER**	**TYPE**		WASHABLE SARANET FILTER	
		QUANTITY	**pc**	1	
CASING	**INDOOR UNIT**		**MATERIAL**	GALVANISED IRON	
			FINISHING	WITH PE INSULATION	
			COLOUR	GREY	
	OUTDOOR UNIT		**MATERIAL**	GALVANISED MILD STEEL	
			FINISHING	POLYESTER POWDER	
			COLOUR	LIGHT GREY	

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Component Data - Heat Pump

MODEL	OUTDOOR UNIT			A5LCY 20CR	A5LCY 25CR
	INDOOR UNIT			A5CKY 20ER	A5CKY 25ER
INDOOR FAN	TYPE			TURBO	TURBO
	QUANTITY			1	1
	MATERIAL			ASG 10%	ASG 10%
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	486 / 19.1	486 / 19.1
	LENGTH		mm/in	172 / 6.8	172 / 6.8
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP20	IP20
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			MRP421L2BC	MRP421L2BC
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	455 / 17.9	455 / 17.9
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP34	IP34
COMPRESSOR	TYPE			ROTARY SWING	ROTARY SWING
	OIL TYPE			ETHER	ETHER
	OIL AMOUNT		cm^3 / fl.oz.	N/A	N/A
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.28	7.00 / 0.276
		THICKNESS	mm/in	0.24 / 0.009	0.24 / 0.009
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (HYDROPHILIC FIN)
		THICKNESS	mm/in	0.10 / 0.004	0.10 / 0.004
		FACE AREA	m^2/ft^2	0.39 / 4.15	0.39 / 4.15
		ROW		2	2
		FIN PER INCH		18	18
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.276	7.00 / 0.276
		THICKNESS	mm/in	0.24 / 0.009	0.24 / 0.009
	FIN	MATERIAL		ALUMINIUM (CORR.)	ALUMINIUM (CORR.)
		THICKNESS	mm/in	0.10 / 0.004	0.10 / 0.004
		FACE AREA	m^2/ft^2	0.62 / 6.64	0.62 / 6.64
		ROW		2	2
		FIN PER INCH		20	20
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY	pc	1	1
CASING	INDOOR UNIT		MATERIAL	GALVANISED IRON	GALVANISED IRON
			FINISHING	WITH PE INSULATION	WITH PE INSULATION
			COLOUR	GREY	GREY
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

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Component Data - Heat Pump

MODEL	OUTDOOR UNIT			A5LCY 10DR	A5LCY 15DR
	INDOOR UNIT			A5CCY 10CR	A5CCY 15CR
INDOOR FAN	TYPE			SIROCCO	SIROCCO
	QUANTITY			2	2
	MATERIAL			GALVANISED STEEL	GALVANISED STEEL
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	164 / 6.5	164 / 6.5
	LENGTH		mm/in	202 / 8.0	202 / 8.0
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			-	-
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			GLASS REINFORCED POLYPRO-PYLENE RESIN	GLASS REINFORCED POLYPRO-PYLENE RESIN
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	400 / 15.7	400 / 15.7
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP24	IP24
COMPRESSOR	TYPE			ROTARY	ROTARY
	OIL TYPE			RB68A or FREOL ALPHA68M	RB68A or FREOL ALPHA68M
	OIL AMOUNT		cm^3 / fl.oz.	320 / 11.3	320 / 11.3
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.276	7.00 / 0.276
		THICKNESS	mm/in	0.24 / 0.009	0.24 / 0.009
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (HYDROPHILIC FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	0.13 / 1.43	0.13 / 1.43
		ROW		3	3
		FIN PER INCH		18	18
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.276	7.00 / 0.276
		THICKNESS	mm/in	0.24 / 0.009	0.24 / 0.009
	FIN	MATERIAL		ALUMINIUM (CORR.)	ALUMINIUM (CORR.)
		THICKNESS	mm/in	0.10 / 0.004	0.10 / 0.004
		FACE AREA	m^2/ft^2	0.42 / 4.520	0.40 / 4.304
		ROW		1	2
		FIN PER INCH		18	18
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY	pc	1	1
CASING	INDOOR UNIT		MATERIAL	GALVANISED STEEL	GALVANISED STEEL
			FINISHING	WITH PE INSULATION	WITH PE INSULATION
			COLOUR	WITHOUT POWDER PAINT	WITHOUT POWDER PAINT
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

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Component Data - Heat Pump

MODEL	OUTDOOR UNIT			A5LCY 20CR	A5LCY 25CR
	INDOOR UNIT			A5CCY 20CR	A5CCY 25CR
INDOOR FAN	TYPE			SIROCCO	SIROCCO
	QUANTITY			2	2
	MATERIAL			GALVANISED STEEL	GALVANISED STEEL
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	160 / 6.3	160 / 6.3
	LENGTH		mm/in	200 / 7.9	200 / 7.9
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP20	IP21
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			MRP421L2BC	MRP421L2BC
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	455 / 17.9	455 / 17.9
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP34	IP34
COMPRESSOR	TYPE			ROTARY SWING	ROTARY SWING
	OIL TYPE			ETHER	ETHER
	OIL AMOUNT		cm^3 / fl.oz.	N/A	N/A
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.276	7.00 / 0.276
		THICKNESS	mm/in	0.24 / 0.009	0.24 / 0.009
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (HYDROPHILIC FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	0.16 / 1.76	0.19 / 2.03
		ROW		3	3
		FIN PER INCH		18	18
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.276	7.00 / 0.276
		THICKNESS	mm/in	0.24 / 0.009	0.24 / 0.009
	FIN	MATERIAL		ALUMINIUM (CORR.)	ALUMINIUM (CORR.)
		THICKNESS	mm/in	0.10 / 0.004	0.10 / 0.004
		FACE AREA	m^2/ft^2	0.62 / 6.64	0.62 / 6.64
		ROW		2	2
		FIN PER INCH		20	20
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY	pc	1	1
CASING	INDOOR UNIT		MATERIAL	GALVANISED STEEL	GALVANISED STEEL
			FINISHING	WITH PE INSULATION	WITH PE INSULATION
			COLOUR	WITHOUT POWDER PAINT	WITHOUT POWDER PAINT
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

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Component Data - Heat Pump

MODEL	OUTDOOR UNIT			A5LCY 15DR	A5LCY 20CR
	INDOOR UNIT			A5CMY 15ER	A5CMY 20ER
INDOOR FAN	TYPE			SIROCCO	SIROCCO
	QUANTITY			2	2
	MATERIAL			ABS	ABS
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	145 / 5.7	145 / 5.7
	LENGTH		mm/in	200 / 8.9	200 / 8.9
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			-	IP20
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			GLASS REINFORCED POLYPRO-PYLENE RESIN	MRP421L2BC
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	400 / 15.7	455 / 17.9
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP24	IP34
COMPRESSOR	TYPE			ROTARY	ROTARY SWING
	OIL TYPE			RB68A or FREOL ALPHA68M	ETHER
	OIL AMOUNT		cm^3 / fl.oz.	320 / 11.3	N/A
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.276	7.00 / 0.276
		THICKNESS	mm/in	0.24 / 0.009	0.24 / 0.009
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (HYDROPHILIC FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	0.27 / 2.89	0.27 / 2.89
		ROW		2	3
		FIN PER INCH		18	18
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.276	7.00 / 0.276
		THICKNESS	mm/in	0.24 / 0.009	0.24 / 0.009
	FIN	MATERIAL		ALUMINIUM (CORR.)	ALUMINIUM (CORR.)
		THICKNESS	mm/in	0.10 / 0.004	0.10 / 0.004
		FACE AREA	m^2/ft^2	0.40 / 4.304	0.62 / 6.64
		ROW		2	2
		FIN PER INCH		18	20
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY	pc	2	2
CASING	INDOOR UNIT		MATERIAL	PS	PS
			FINISHING	ETCHING SURFACE	ETCHING SURFACE
			COLOUR	LIGHT GREY	LIGHT GREY
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

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Component Data - Heat Pump

MODEL	**OUTDOOR UNIT**			**A5LCY 25CR**	
	INDOOR UNIT			**A5CMY 25ER**	
INDOOR FAN	**TYPE**			SIROCCO	
	QUANTITY			2	
	MATERIAL			ABS	
	DRIVE			DIRECT	
	DIAMETER		**mm/in**	145 / 5.7	
	LENGTH		**mm/in**	200 / 8.9	
INDOOR FAN MOTOR	**TYPE**			INDUCTION	
	QUANTITY			1	
	INDEX OF PROTECTION (IP)			IP20	
OUTDOOR FAN	**TYPE**			PROPELLER	
	QUANTITY			1	
	MATERIAL			MRP421L2BC	
	DRIVE			DIRECT	
	DIAMETER		**mm/in**	455 / 17.9	
OUTDOOR FAN MOTOR	**TYPE**			INDUCTION	
	QUANTITY			1	
	INDEX OF PROTECTION (IP)			IP34	
COMPRESSOR	**TYPE**			ROTARY SWING	
	OIL TYPE			ETHER	
	OIL AMOUNT		**cm³ / fl.oz.**	N/A	
INDOOR COIL	**TUBE**	**MATERIAL**		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	**mm/in**	7.00 / 0.276	
		THICKNESS	**mm/in**	0.24 / 0.009	
	FIN	**MATERIAL**		ALUMINIUM (HYDROPHILIC FIN)	
		THICKNESS	**mm/in**	0.11 / 0.004	
		FACE AREA	**m²/ft²**	0.27 / 2.89	
		ROW		3	
		FIN PER INCH		18	
OUTDOOR COIL	**TUBE**	**MATERIAL**		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	**mm/in**	7.00 / 0.276	
		THICKNESS	**mm/in**	0.24 / 0.009	
	FIN	**MATERIAL**		ALUMINIUM (CORR.)	
		THICKNESS	**mm/in**	0.10 / 0.004	
		FACE AREA	**m²/ft²**	0.62 / 6.64	
		ROW		2	
		FIN PER INCH		20	
AIR QUALITY	**FILTER**	**TYPE**		WASHABLE SARANET FILTER	
		QUANTITY	**pc**	2	
CASING	**INDOOR UNIT**		**MATERIAL**	PS	
			FINISHING	ETCHING SURFACE	
			COLOUR	LIGHT GREY	
	OUTDOOR UNIT		**MATERIAL**	GALVANISED MILD STEEL	
			FINISHING	POLYESTER POWDER	
			COLOUR	LIGHT GREY	

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Safety Devices Data

MODEL	OUTDOOR UNIT			A5LCY 10DR	A5LCY 15DR
	INDOOR UNIT			A5WMY 10JR	A5WMY 15JR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	LOW PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

MODEL	OUTDOOR UNIT			A5LCY 20CR	A5LCY 25CR
	INDOOR UNIT			A5WMY 20JR	A5WMY 25JR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	LOW PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

MODEL	OUTDOOR UNIT			A5LCY 10DR	A5LCY 15DR
	INDOOR UNIT			A5CKY 10CR	A5CKY 15CR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	LOW PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

MODEL	OUTDOOR UNIT			A5LCY 20CR
	INDOOR UNIT			A5CKY 20CR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	LOW PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	PHASE SEQUENCER			N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A

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Safety Devices Data

MODEL	OUTDOOR UNIT			A5LCY 20CR	A5LCY 25CR
	INDOOR UNIT			A5CKY 20ER	A5CKY 25ER
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	LOW PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

MODEL	OUTDOOR UNIT			A5LCY 10DR	A5LCY 15DR
	INDOOR UNIT			A5CCY 10CR	A5CCY 15CR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	LOW PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

MODEL	OUTDOOR UNIT			A5LCY 20CR	A5LCY 25CR
	INDOOR UNIT			A5CCY 20CR	A5CCY 25CR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	LOW PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

MODEL	OUTDOOR UNIT			A5LCY 15DR	A5LCY 20CR
	INDOOR UNIT			A5CMY 15ER	A5CMY 20ER
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	LOW PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

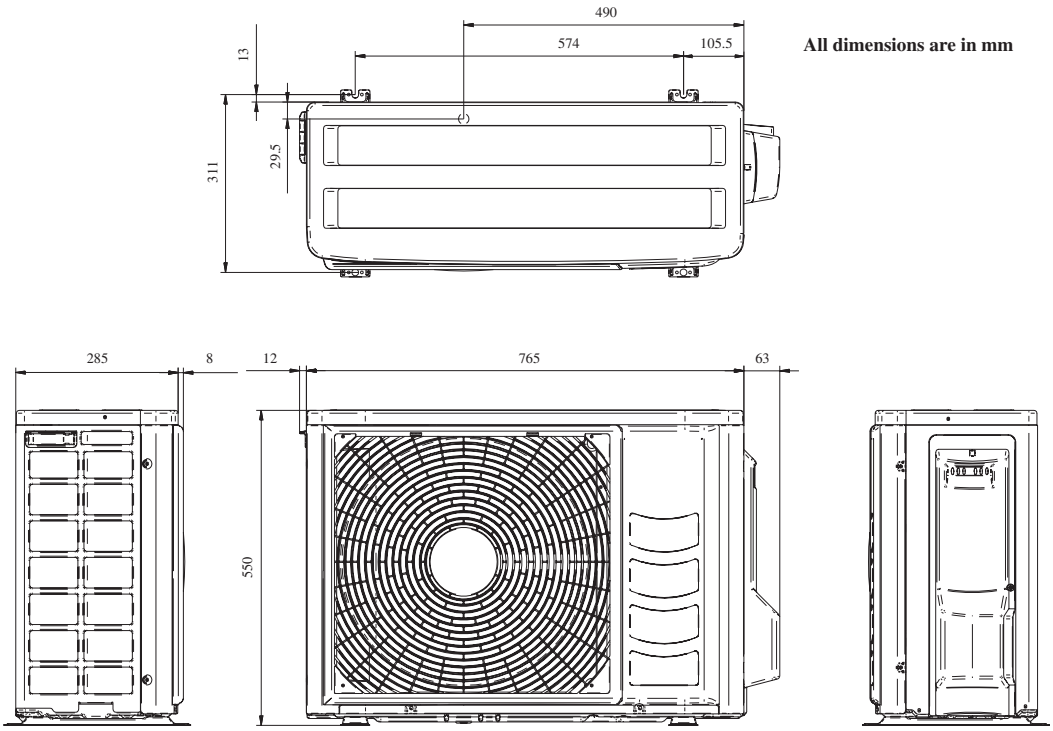
Safety Devices Data

MODEL	OUTDOOR UNIT			A5LCY 25CR
	INDOOR UNIT			A5CMY 25ER
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	LOW PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	PHASE SEQUENCER			N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

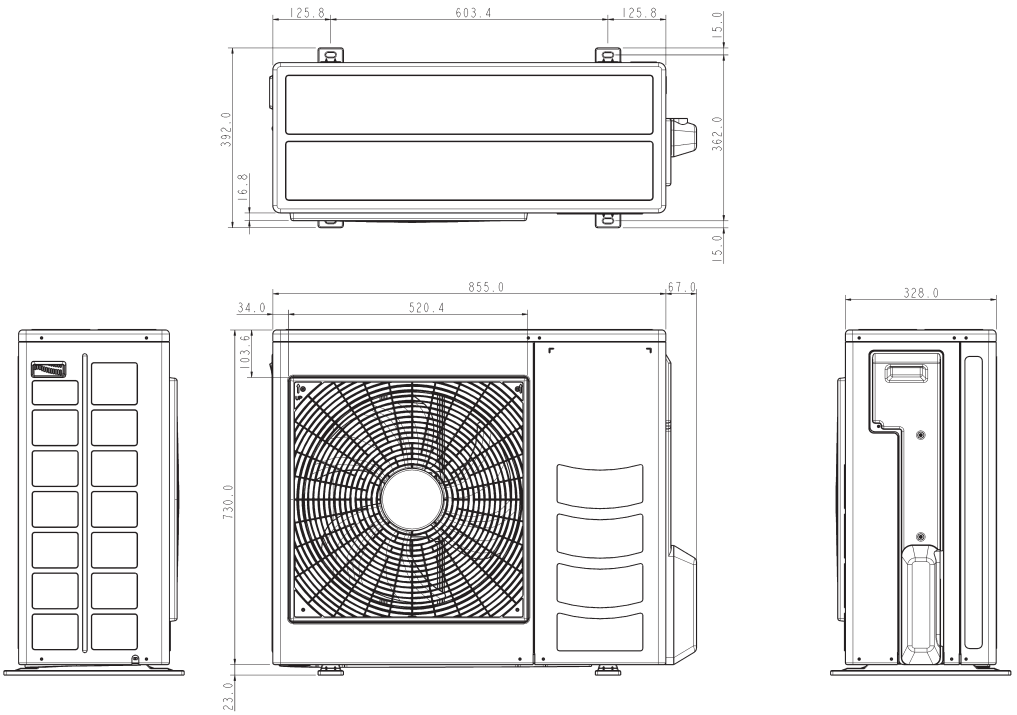
Outline and Dimension

Outdoor Unit
Model: A5LCY 10/15DR



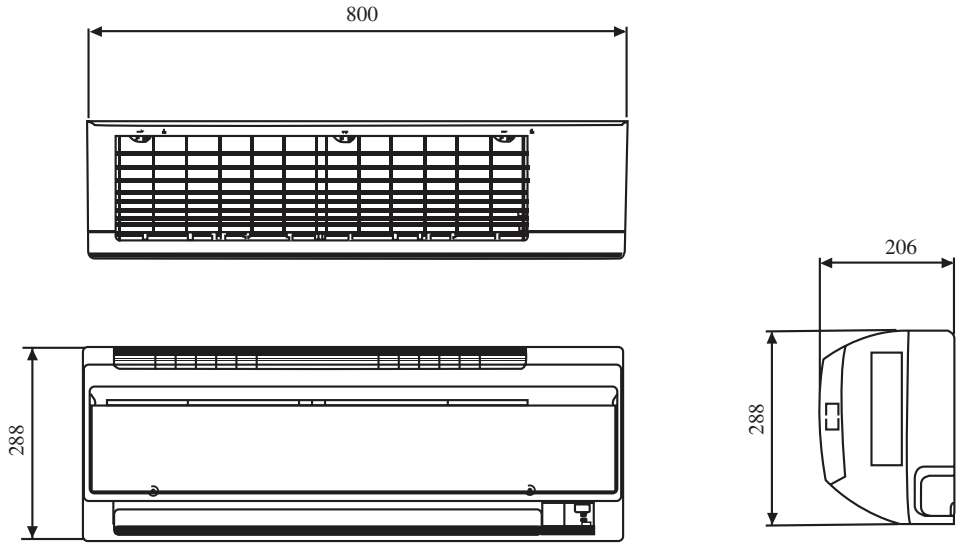
Note: Dimension in mm

Outdoor Unit
Model: A5LCY 20/25CR



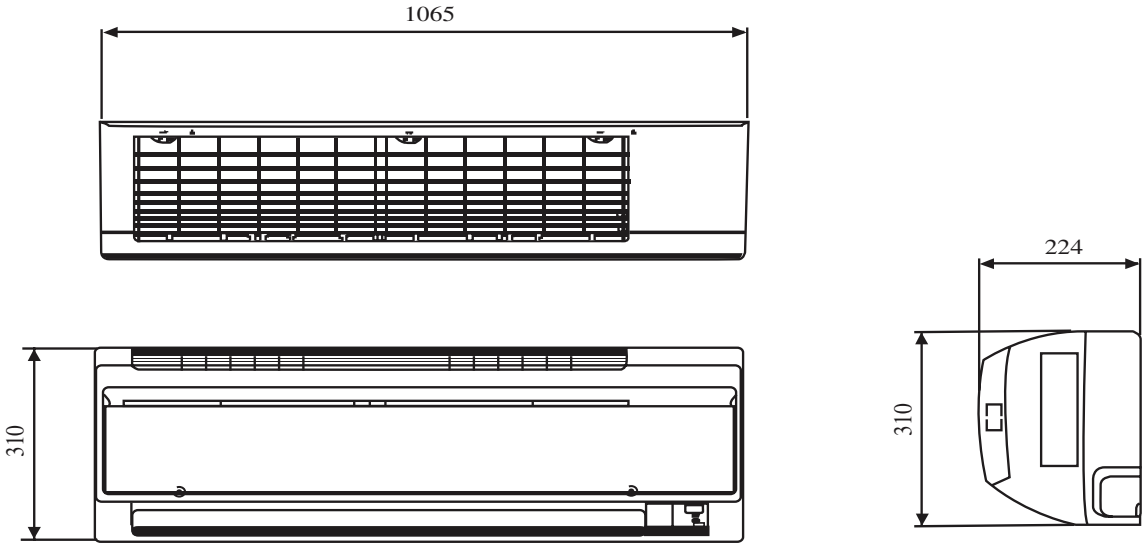
Note: Dimension in mm

Indoor Unit
Model: A5WMY 10/15JR



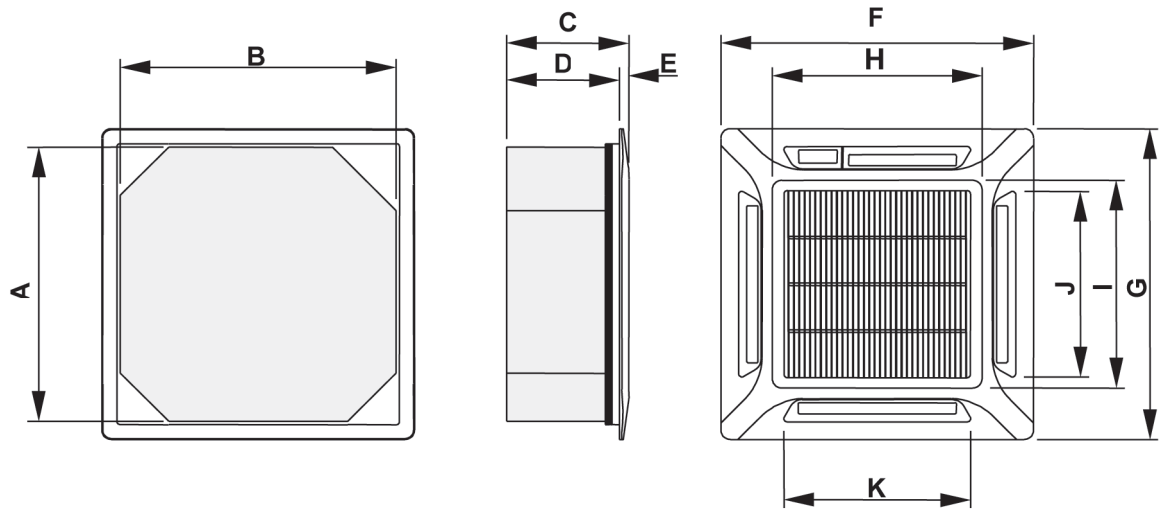
Note: Dimension in mm

Indoor Unit
Model: A5WMY 20/25JR



Note: Dimension in mm

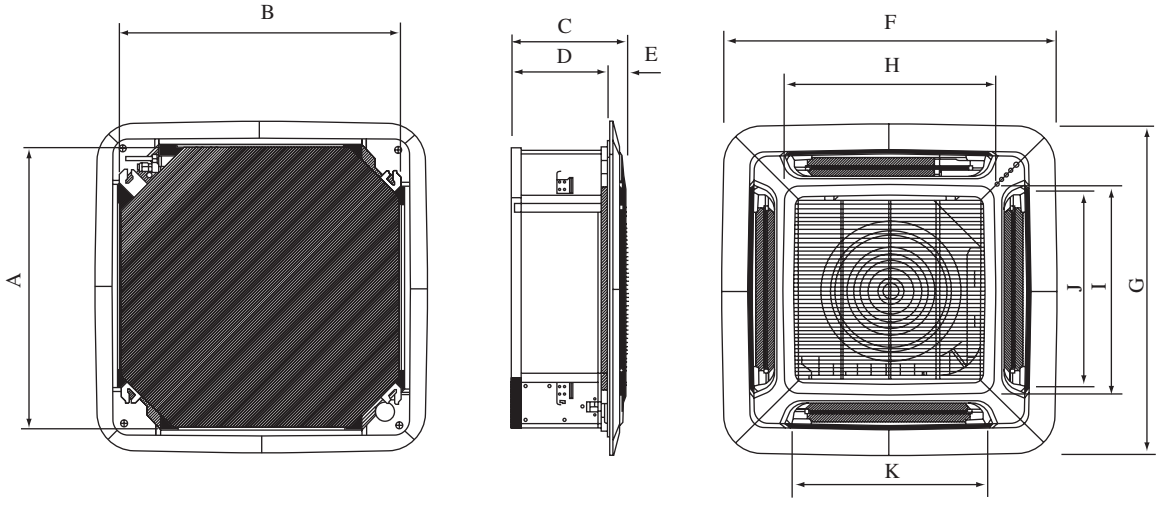
Indoor Unit
Model: A5CKY 10/15/20CR



MODEL	A	B	C	D	E	F	G	H	I	J	K
A5CKY 10/15/20CR	570	570	295	275	20	640	640	408	408	364	364

Note: Dimension in mm

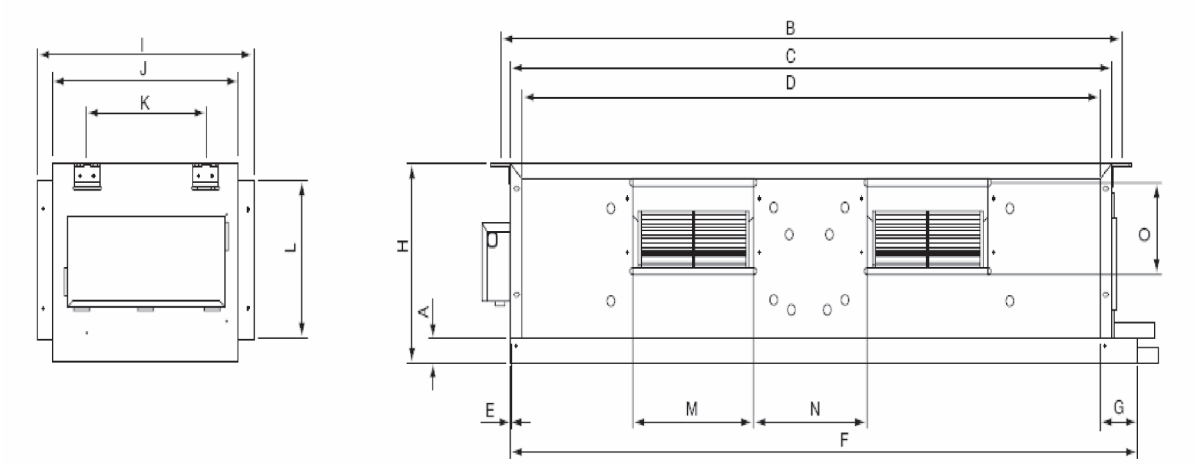
Indoor Unit
Model: A5CKY 20/25ER



MODEL	A	B	C	D	E	F	G	H	I	J	K
A5CKY 20/25ER	820	820	350	290	60	990	990	627	627	607	607

Note: Dimension in mm

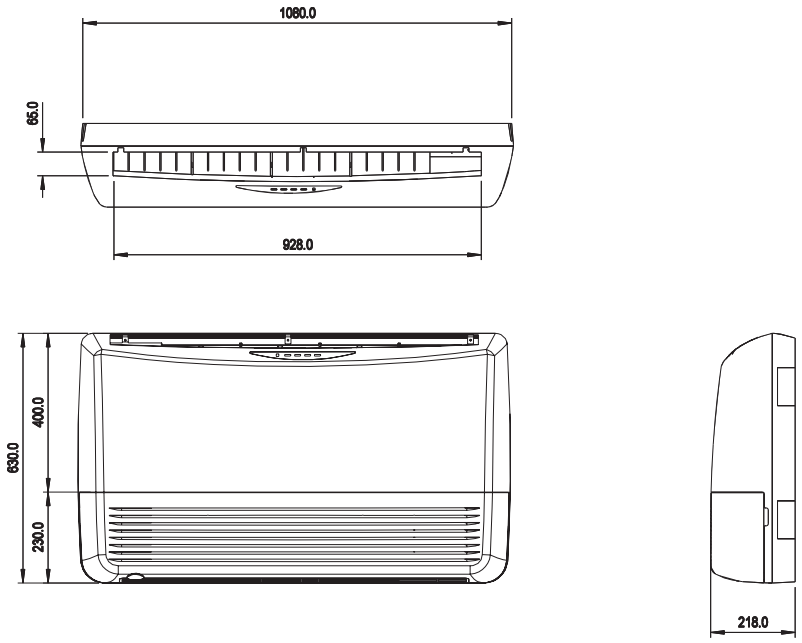
Indoor Unit
Model: A5CCY 10/15/20/25CR



MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
A5CCY 10/15CR	31	881	842	802	10	905	72	261	411	351	225	211	232	212,8	114
A5CCY 20CR	31	1041	1002	962	10	1065	72	261	411	351	225	211	232	212,8	114
A5CCY 25CR	31	1176	1137	1097	10	1200	72	261	411	351	225	211	232	212,8	114

Note: Dimension in mm

Indoor Unit
Model: A5CMY 15/20/25ER



Note: Dimension in mm

Electrical Data

MODEL	OUTDOOR UNIT		A5LCY 10DR	A5LCY 15DR
	INDOOR UNIT		A5WMY 10JR	A5WMY 15JR
INDOOR MOTOR	INSULATION GRADE		E	E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	34	42
	RATED RUNNING CURRENT	A	0.19	0.21
	MOTOR OUTPUT	W	18	18
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		E	E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	66	67
	RATED RUNNING CURRENT	A	0.31	0.31
	MOTOR OUTPUT	W	26	26
	POLES		6	6
COMPRESSOR	INSULATION GRADE		E	E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	μF	-	-
	RATED INPUT POWER (COOLING)	W	660	941
	RATED INPUT POWER (HEATING)	W	728	941
	RATED RUNNING CURRENT (COOLING)	A	3.60	4.48
	RATED RUNNING CURRENT (HEATING)	A	3.50	4.38
	LOCKED ROTOR AMP.	A	-	-

MODEL	OUTDOOR UNIT		A5LCY 20CR	A5LCY 25CR
	INDOOR UNIT		A5WMY 20JR	A5WMY 25JR
INDOOR MOTOR	INSULATION GRADE		E	E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	37	63
	RATED RUNNING CURRENT	A	0.32	0.56
	MOTOR OUTPUT	W	40	40
	POLES		8	8
OUTDOOR MOTOR	INSULATION GRADE		F	F
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	120	120
	RATED RUNNING CURRENT	A	0.52	0.52
	MOTOR OUTPUT	W	66	66
	POLES		6	6
COMPRESSOR	INSULATION GRADE		E	E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	μF	-	-
	RATED INPUT POWER (COOLING)	W	1296	1690
	RATED INPUT POWER (HEATING)	W	1334	1518
	RATED RUNNING CURRENT (COOLING)	A	5.66	7.25
	RATED RUNNING CURRENT (HEATING)	A	5.84	6.52
	LOCKED ROTOR AMP.	A	-	-

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

MODEL	OUTDOOR UNIT		A5LCY 10DR	A5LCY 15DR
	INDOOR UNIT		A5CKY 10CR	A5CKY 15CR
INDOOR MOTOR	INSULATION GRADE		B	B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	62	62
	RATED RUNNING CURRENT	A	0.28	0.28
	MOTOR OUTPUT	W	16	16
	POLES		6	6
OUTDOOR MOTOR	INSULATION GRADE		E	E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	66	67
	RATED RUNNING CURRENT	A	0.31	0.31
	MOTOR OUTPUT	W	26	26
	POLES		6	6
COMPRESSOR	INSULATION GRADE		E	E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	µF	-	-
	RATED INPUT POWER (COOLING)	W	660	941
	RATED INPUT POWER (HEATING)	W	728	941
	RATED RUNNING CURRENT (COOLING)	A	3.60	4.48
	RATED RUNNING CURRENT (HEATING)	A	3.50	4.38
	LOCKED ROTOR AMP.	A	-	-

MODEL	OUTDOOR UNIT		A5LCY 20CR	
	INDOOR UNIT		A5CKY 20CR	
INDOOR MOTOR	INSULATION GRADE		B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	74	
	RATED RUNNING CURRENT	A	0.31	
	MOTOR OUTPUT	W	22	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		F	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	120	
	RATED RUNNING CURRENT	A	0.52	
	MOTOR OUTPUT	W	66	
	POLES		6	
COMPRESSOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR	µF	-	
	RATED INPUT POWER (COOLING)	W	1296	
	RATED INPUT POWER (HEATING)	W	1334	
	RATED RUNNING CURRENT (COOLING)	A	5.66	
	RATED RUNNING CURRENT (HEATING)	A	5.84	
	LOCKED ROTOR AMP.	A	-	

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MODEL	OUTDOOR UNIT		A5LCY 20CR	A5LCY 25CR
	INDOOR UNIT		A5CKY 20ER	A5CKY 25ER
INDOOR MOTOR	INSULATION GRADE		B	B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	89	103
	RATED RUNNING CURRENT	A	0.40	0.45
	MOTOR OUTPUT	W	20	30
	POLES		6	6
OUTDOOR MOTOR	INSULATION GRADE		F	F
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	120	120
	RATED RUNNING CURRENT	A	0.52	0.52
	MOTOR OUTPUT	W	66	66
	POLES		6	6
COMPRESSOR	INSULATION GRADE		E	E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	µF	-	-
	RATED INPUT POWER (COOLING)	W	1296	1690
	RATED INPUT POWER (HEATING)	W	1334	1518
	RATED RUNNING CURRENT (COOLING)	A	5.66	7.25
	RATED RUNNING CURRENT (HEATING)	A	5.84	6.52
	LOCKED ROTOR AMP.	A	-	-

MODEL	OUTDOOR UNIT		A5LCY 10DR	A5LCY 15DR
	INDOOR UNIT		A5CCY 10CR	A5CCY 15CR
INDOOR MOTOR	INSULATION GRADE		B	E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	89	100
	RATED RUNNING CURRENT	A	0.39	0.42
	MOTOR OUTPUT	W	40	50
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		E	E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	66	67
	RATED RUNNING CURRENT	A	0.31	0.31
	MOTOR OUTPUT	W	26	26
	POLES		6	6
COMPRESSOR	INSULATION GRADE		E	E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	µF	-	-
	RATED INPUT POWER (COOLING)	W	660	941
	RATED INPUT POWER (HEATING)	W	728	941
	RATED RUNNING CURRENT (COOLING)	A	3.60	4.48
	RATED RUNNING CURRENT (HEATING)	A	3.50	4.38
	LOCKED ROTOR AMP.	A	-	-

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MODEL	OUTDOOR UNIT		A5LCY 20CR	A5LCY 25CR
	INDOOR UNIT		A5CCY 20CR	A5CCY 25CR
INDOOR MOTOR	INSULATION GRADE		B	B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	133	164
	RATED RUNNING CURRENT	A	0.61	0.74
	MOTOR OUTPUT	W	80	100
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		F	F
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	120	120
	RATED RUNNING CURRENT	A	0.52	0.52
	MOTOR OUTPUT	W	66	66
	POLES		6	6
COMPRESSOR	INSULATION GRADE		E	E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	μF	-	-
	RATED INPUT POWER (COOLING)	W	1296	1690
	RATED INPUT POWER (HEATING)	W	1334	1518
	RATED RUNNING CURRENT (COOLING)	A	5.66	7.25
	RATED RUNNING CURRENT (HEATING)	A	5.84	6.52
	LOCKED ROTOR AMP.	A	-	-

MODEL	OUTDOOR UNIT		A5LCY 15DR	A5LCY 20CR
	INDOOR UNIT		A5CMY 15ER	A5CMY 20ER
INDOOR MOTOR	INSULATION GRADE		B	B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	83.6	101
	RATED RUNNING CURRENT	A	0.37	0.46
	MOTOR OUTPUT	W	40	50
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		E	F
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	67	120
	RATED RUNNING CURRENT	A	0.31	0.52
	MOTOR OUTPUT	W	26	66
	POLES		6	6
COMPRESSOR	INSULATION GRADE		E	E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	μF	-	-
	RATED INPUT POWER (COOLING)	W	941	1296
	RATED INPUT POWER (HEATING)	W	941	1334
	RATED RUNNING CURRENT (COOLING)	A	4.48	5.66
	RATED RUNNING CURRENT (HEATING)	A	4.38	5.84
	LOCKED ROTOR AMP.	A	-	-

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MODEL	**OUTDOOR UNIT**		**A5LCY 25CR**	
	INDOOR UNIT		**A5CMY 25ER**	
INDOOR MOTOR	**INSULATION GRADE**		B	
	POWER SOURCE	**V/Ph/Hz**	220 - 240 / 1 / 50	
	RATED INPUT POWER	**W**	109	
	RATED RUNNING CURRENT	**A**	0.49	
	MOTOR OUTPUT	**W**	65	
	POLES		4	
OUTDOOR MOTOR	**INSULATION GRADE**		F	
	POWER SOURCE	**V/Ph/Hz**	220 - 240 / 1 / 50	
	RATED INPUT POWER	**W**	120	
	RATED RUNNING CURRENT	**A**	0.52	
	MOTOR OUTPUT	**W**	66	
	POLES		6	
COMPRESSOR	**INSULATION GRADE**		E	
	POWER SOURCE	**V/Ph/Hz**	220 - 240 / 1 / 50	
	CAPACITOR	**µF**	-	
	RATED INPUT POWER (COOLING)	**W**	1690	
	RATED INPUT POWER (HEATING)	**W**	1518	
	RATED RUNNING CURRENT (COOLING)	**A**	7.25	
	RATED RUNNING CURRENT (HEATING)	**A**	6.52	
	LOCKED ROTOR AMP.	**A**	-	

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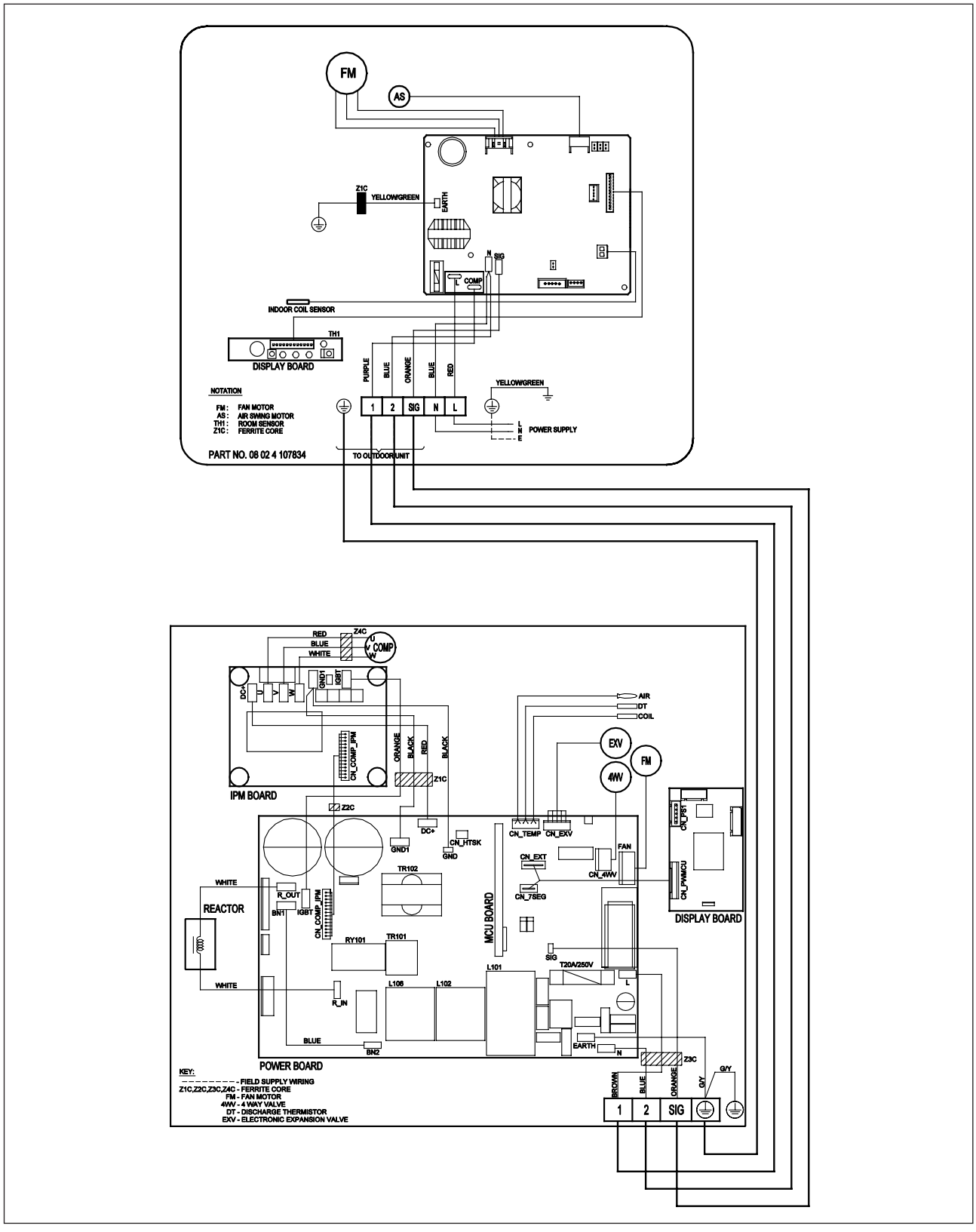
Wiring Diagram

Heat Pump

Outdoor Unit
Model: A5LCY 10/15DR

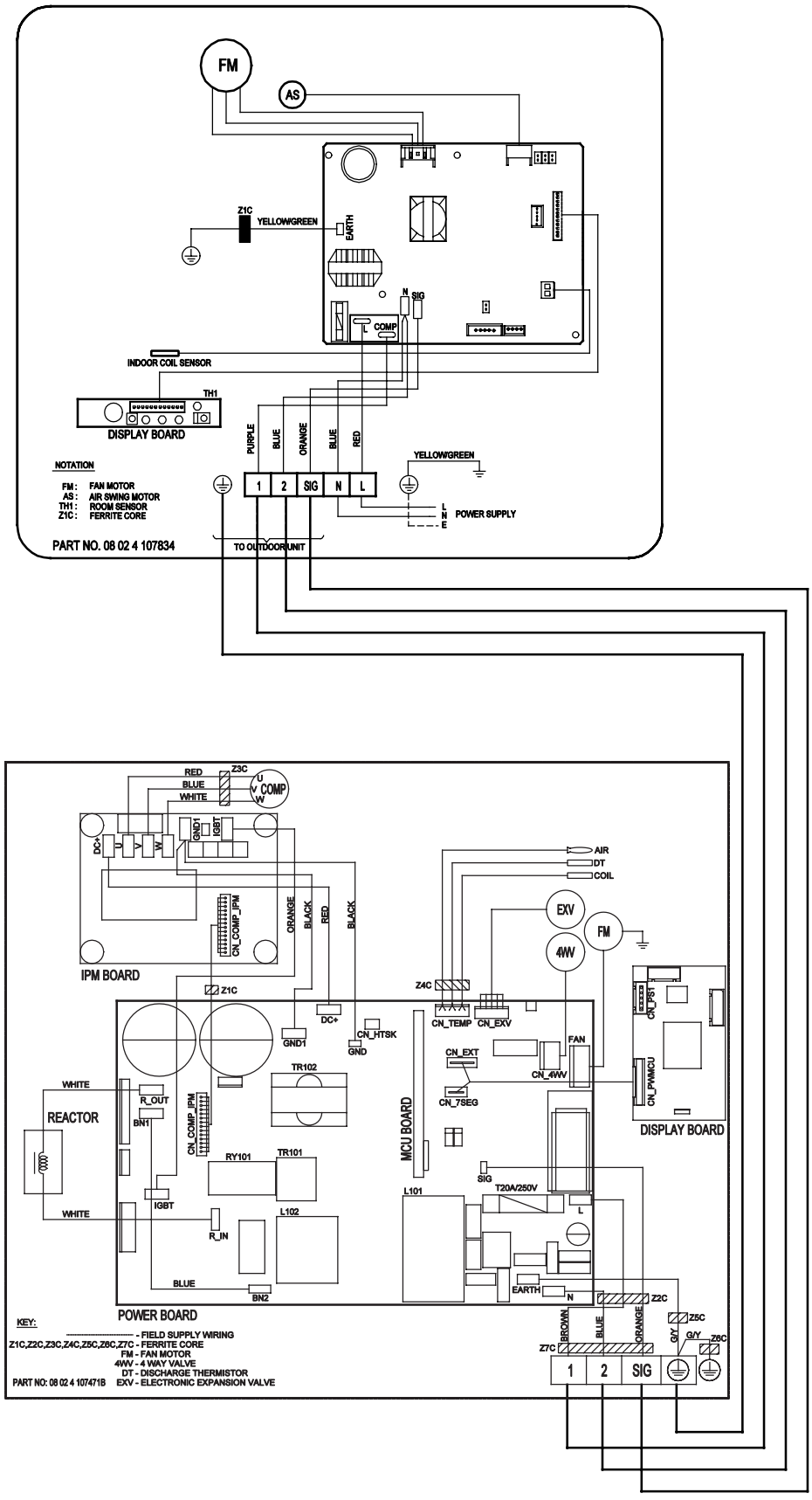
Indoor Unit
Model: A5WMY 10/15JR



70034106463

Outdoor Unit
Model: A5LCY 20/25CR

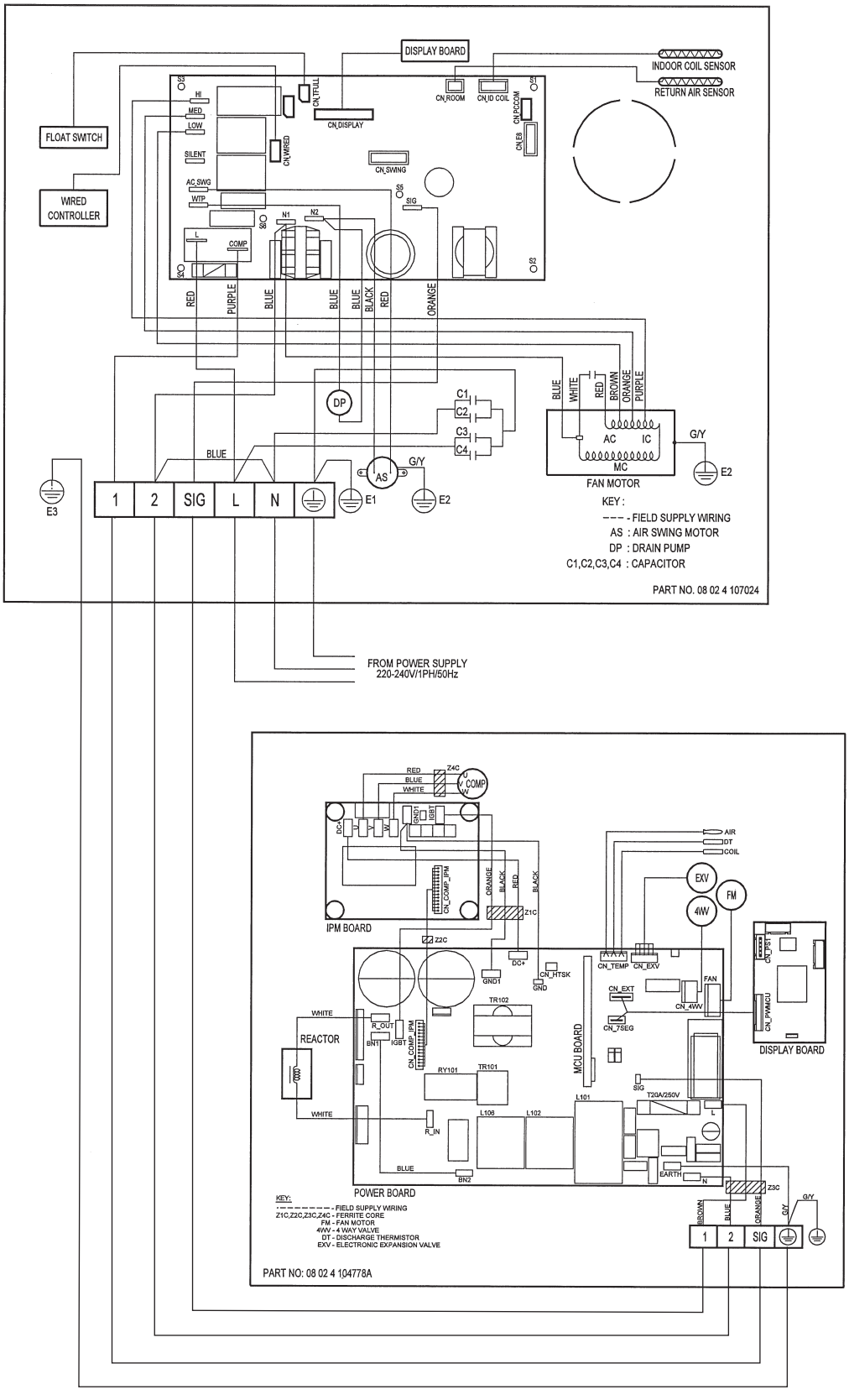
Indoor Unit
Model: A5WMY 20/25JR



Heat Pump

Outdoor Unit
Model: A5LCY 10/15DR

Indoor Unit
Model: A5CKY 10/15CR

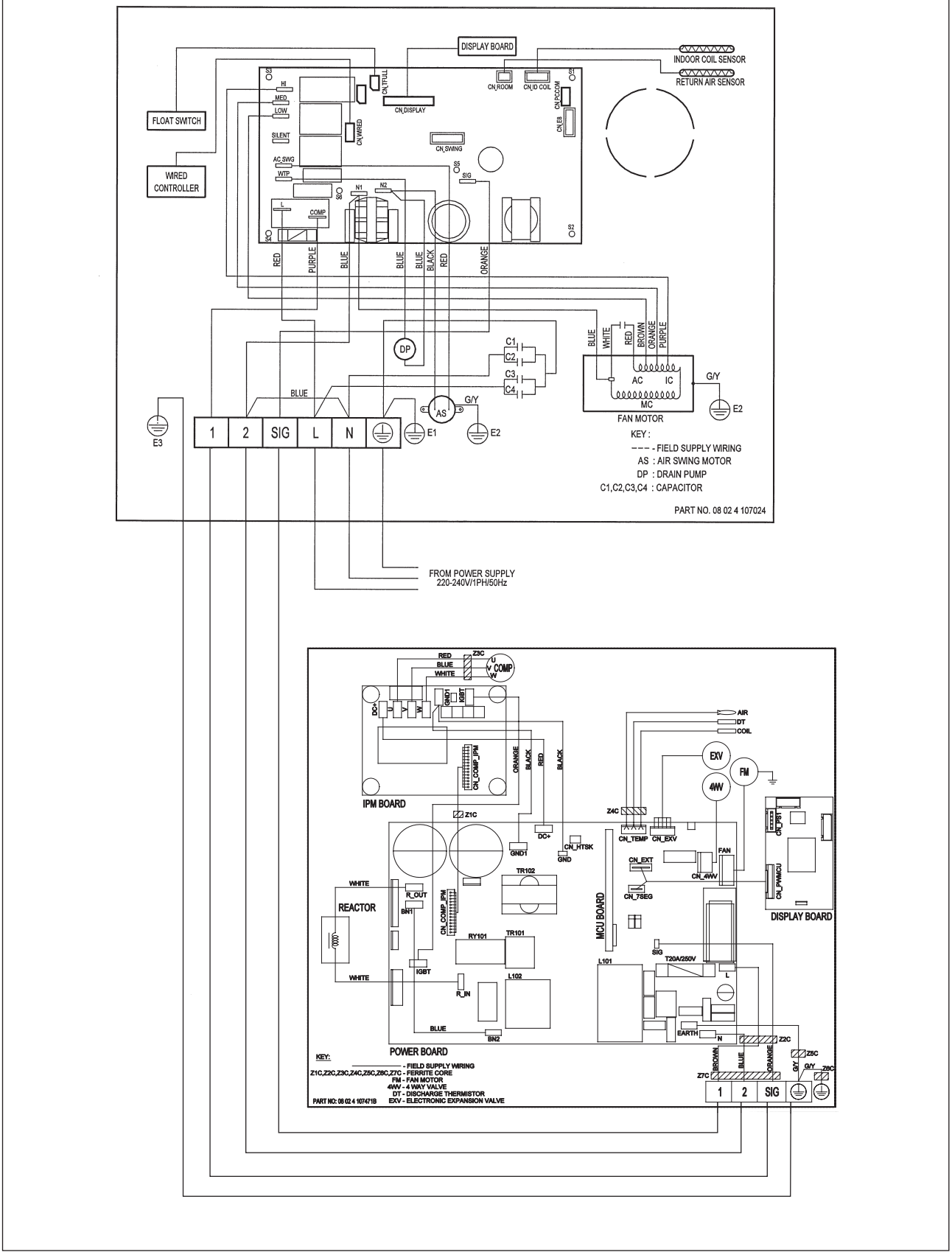


70034108590

Heat Pump

Outdoor Unit
Model: A5LCY 20CR

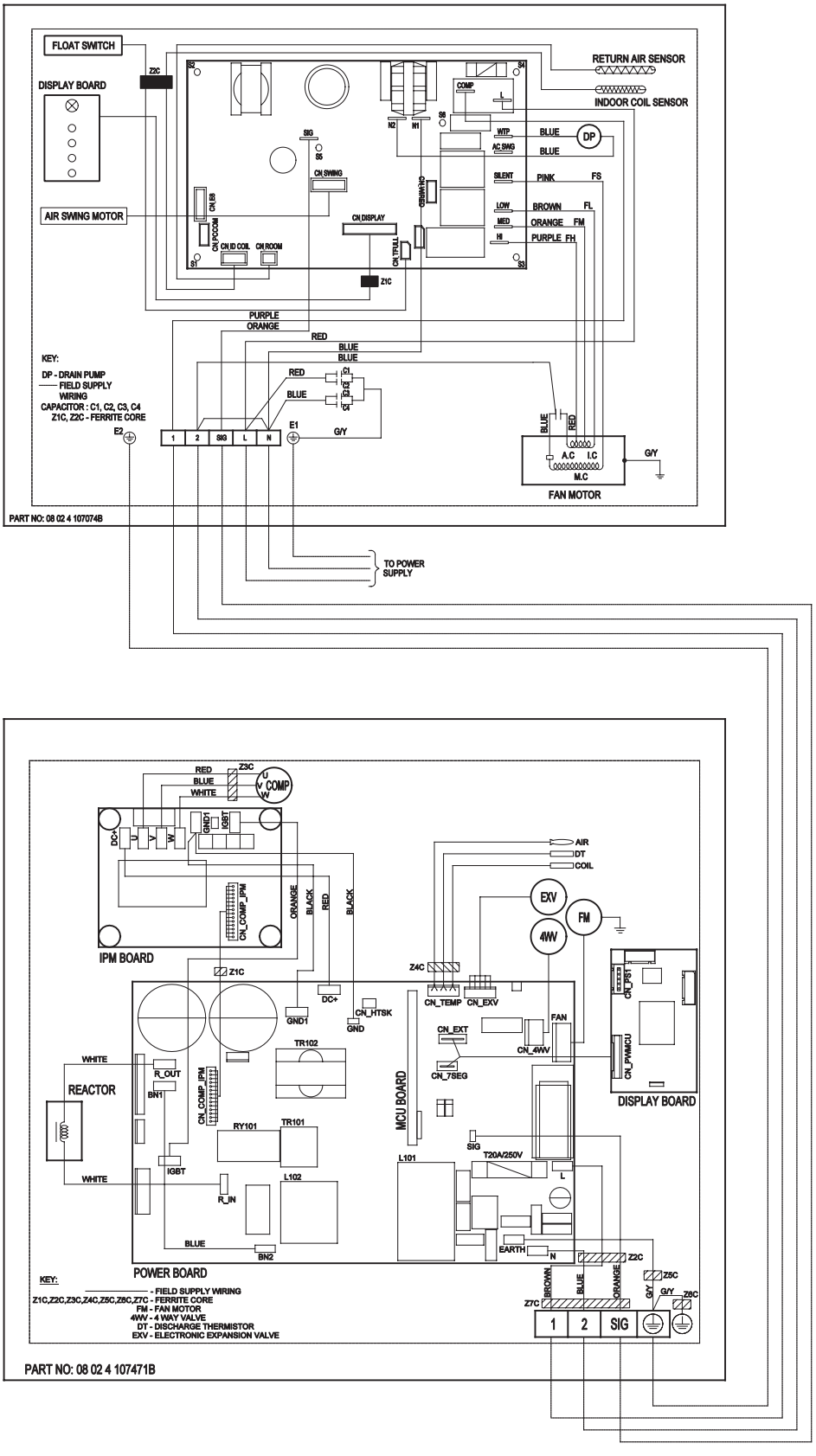
Indoor Unit
Model: A5CKY 20CR



Heat Pump

Outdoor Unit
Model: A5LCY 20/25CR

Indoor Unit
Model: A5CKY 20/25ER

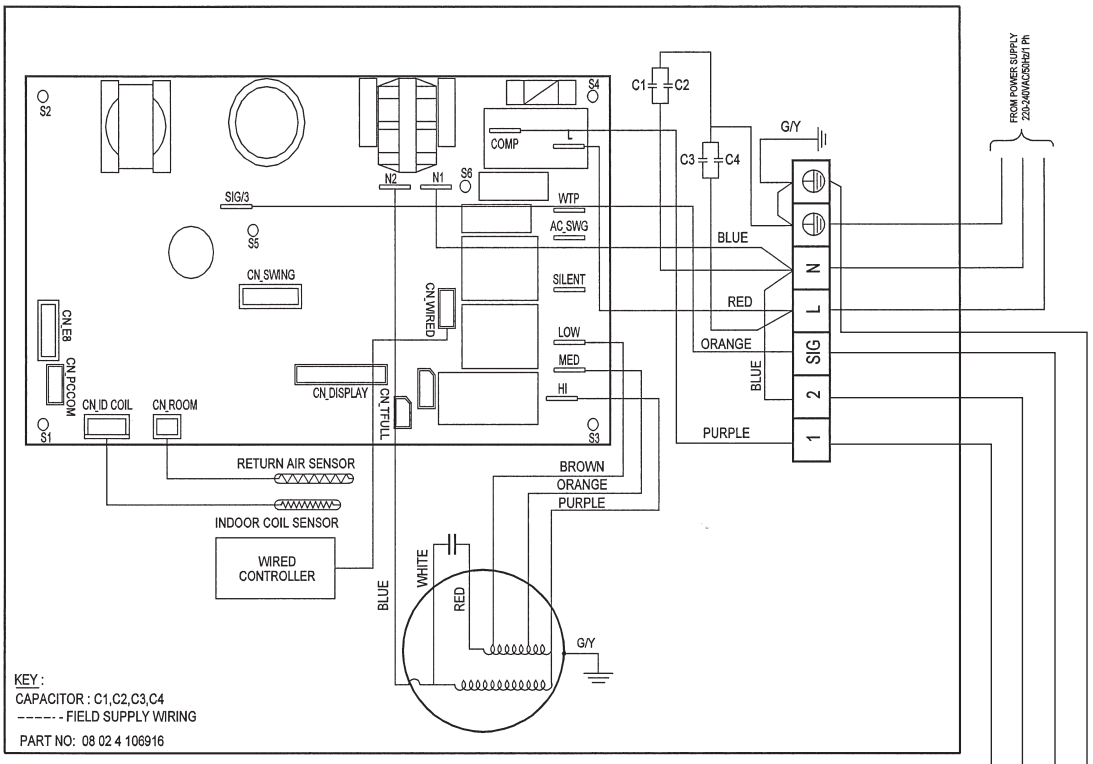


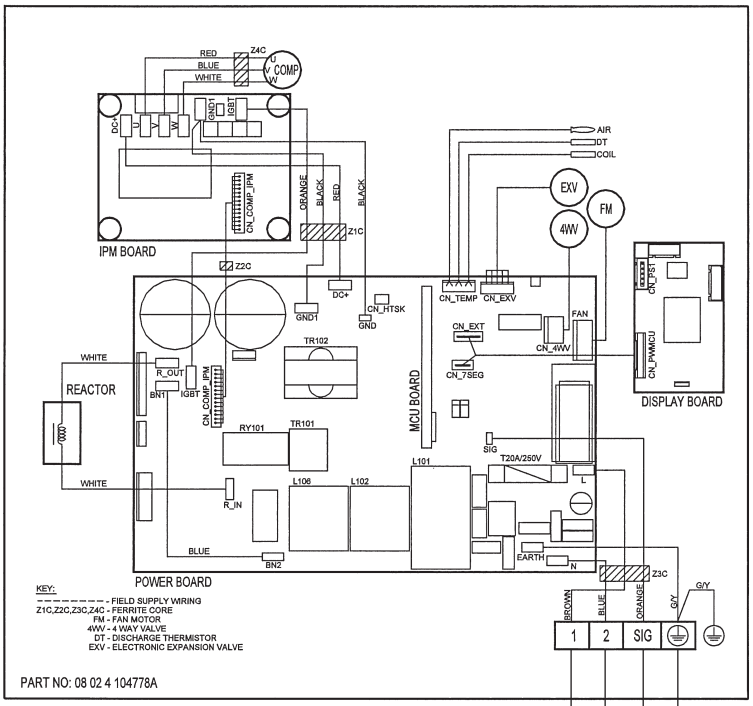
70034110364

Heat Pump

Outdoor Unit
Model: A5LCY 10/15DR

Indoor Unit
Model: A5CCY 10/15CR



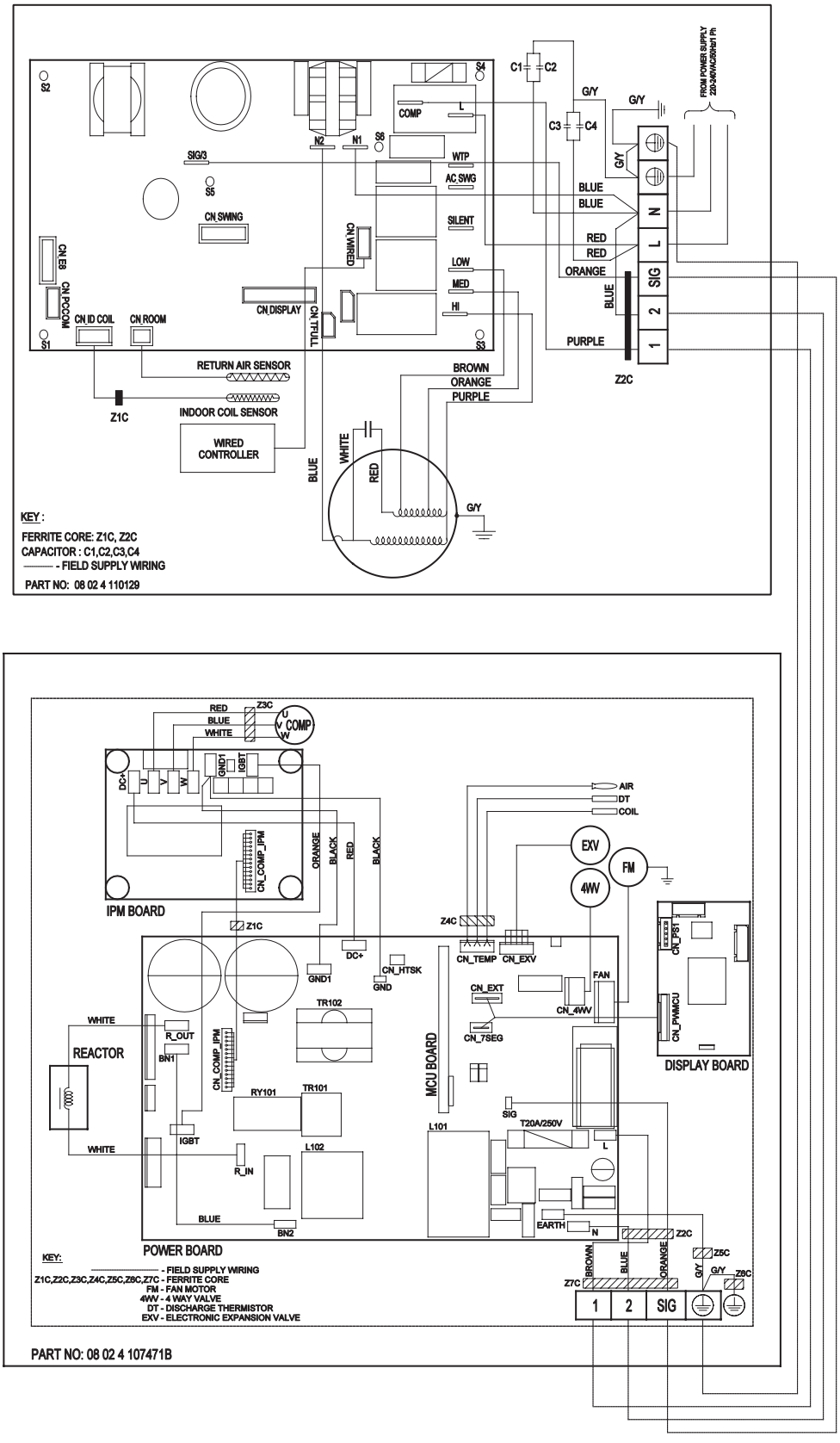


70034108589

Heat Pump

Outdoor Unit
Model: A5LCY 20/25CR

Indoor Unit
Model: A5CCY 20/25CR

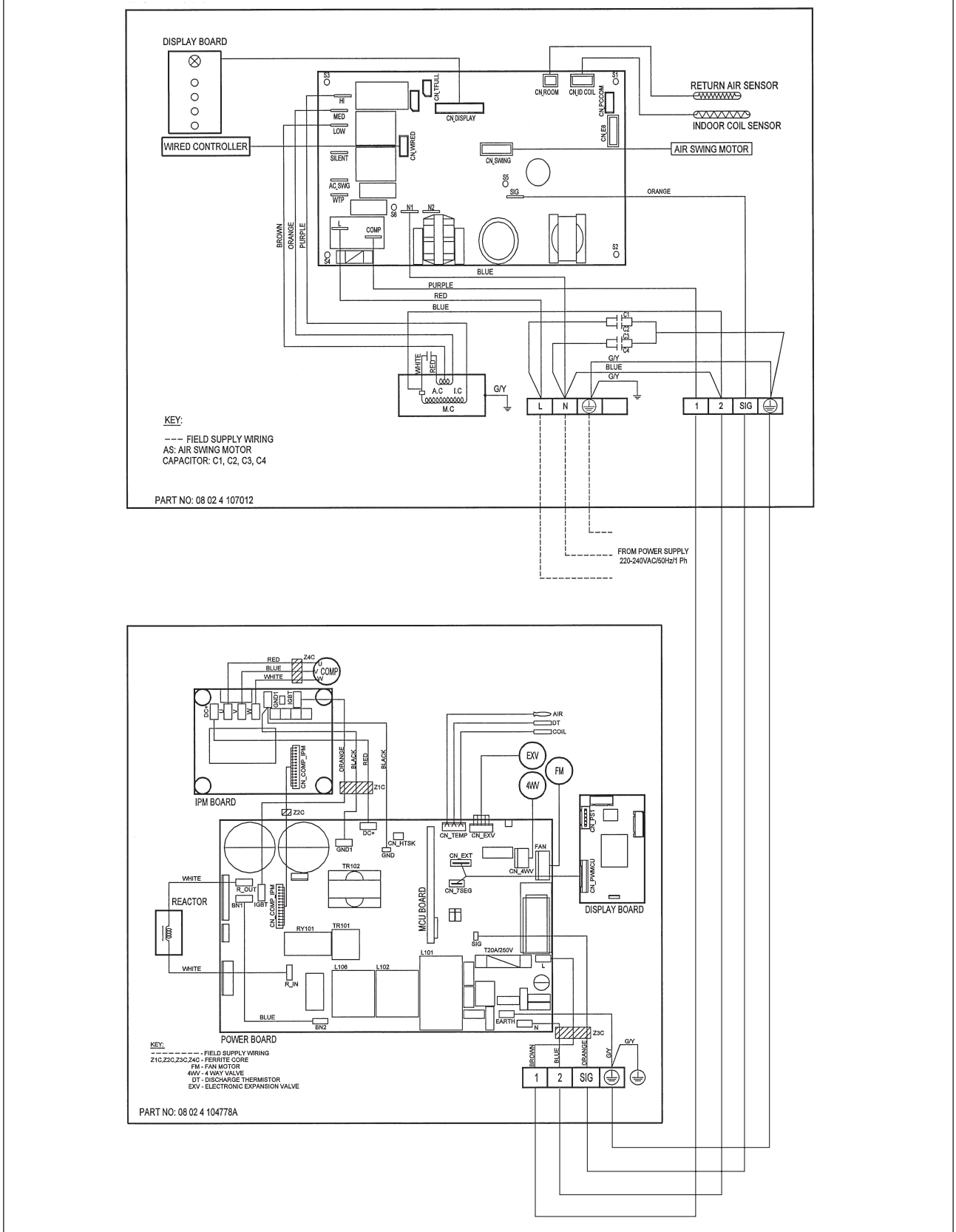


70034110366

Heat Pump

Outdoor Unit
Model: A5LCY 15DR

Indoor Unit
Model: A5CMY 15ER

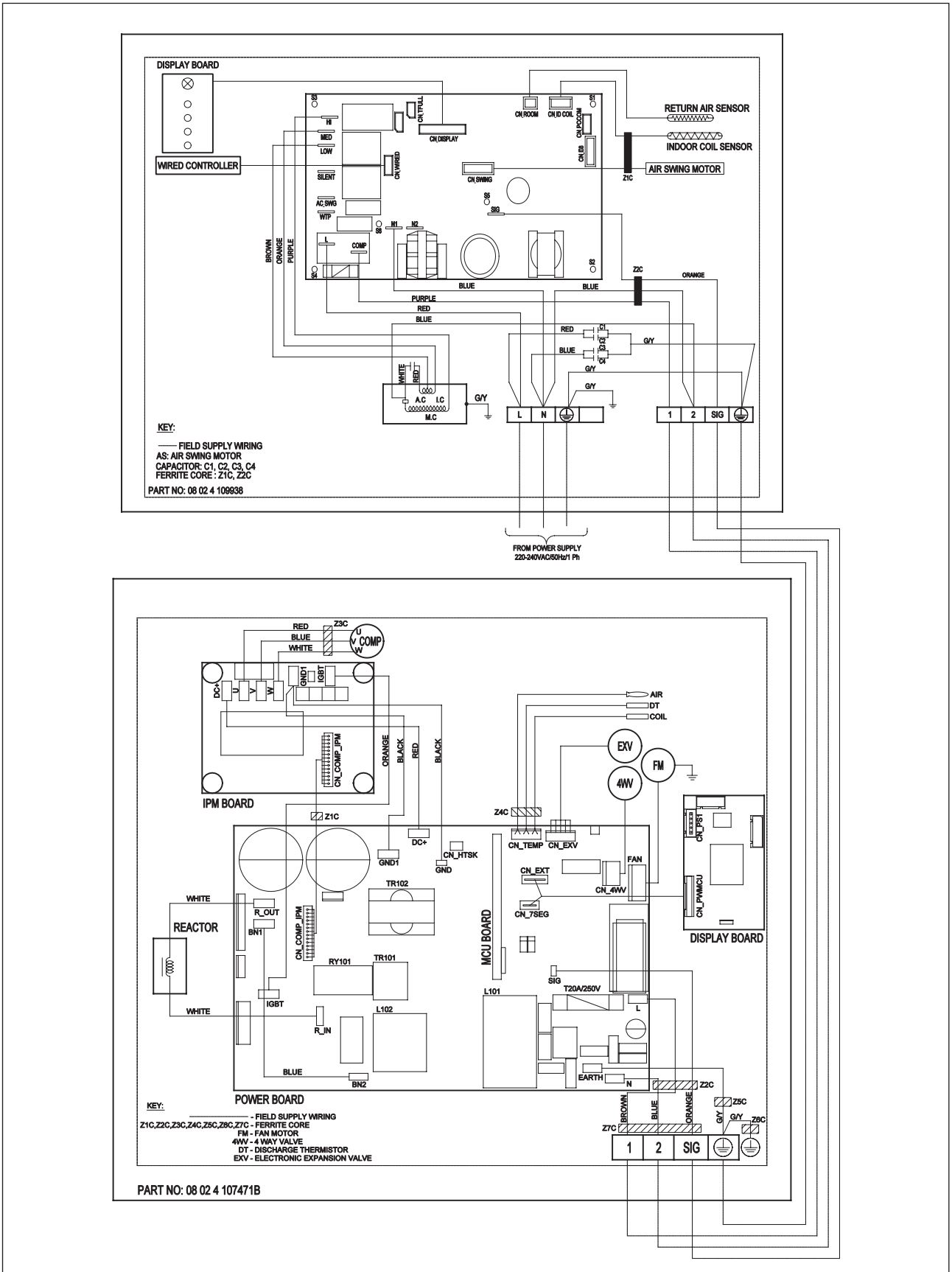


70034108591

Heat Pump

Outdoor Unit
Model: A5LCY 20/25CR

Indoor Unit
Model: A5CMY 20/25ER



70034110365

Service and Maintenance

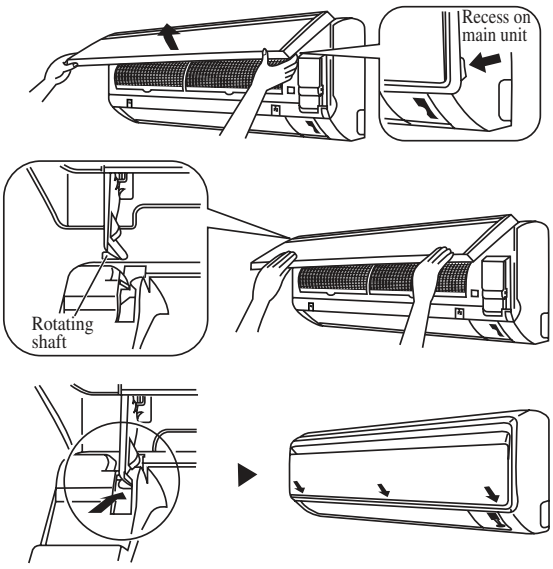
⚠ Warning

- Disconnect from main supply before servicing the air conditioner.
- The unit is designed to give long life operation with minimum maintenance required. However, it should be regularly checked and the following items should be given due attention.

Components	Maintenance Procedures	Period
Air Filter (Indoor Unit)	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. Note: Never use gasoline, volatile substances or chemicals to clean the filter.	At least once every 2 weeks. More frequently if necessary.
Indoor Unit	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. Note: Never use gasoline, volatile substances or chemicals to clean the indoor unit.	At least once every 2 weeks. More frequently if necessary.
Condense Drain Pan & Pipe	1. Check the cleanliness and clean it if necessary. 2. Check the condensate water flow.	Every 3 months.
Indoor Fan	Check if there is any abnormal noise.	If necessary.
Indoor / Outdoor Coil	1. Check and remove the dirt between the fins. 2. Check and remove any obstacles which hinder air flow through the indoor or outdoor. 3. Note: Avoid direct contact of any coil treatment material on the plastic part. This may cause plastic part to deform as a result of chemical reaction.	Every month.
Power Supply	1. Check the running current and voltage for indoor and outdoor unit. 2. Check the electrical wiring and tighten the wire onto the terminal block if necessary.	Every 2 months. Every year.
Compressor	No maintenance needed if refrigerant circuit remains sealed. However, check for refrigerant leak at joint and fitting.	Every 6 months.

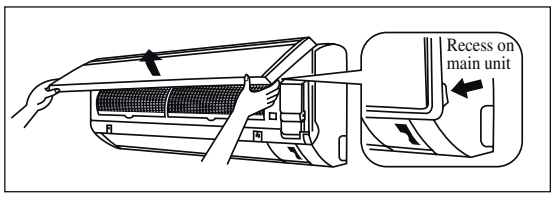
Indoor Models

1. Open the front panel
   - Hold the panel at the recesses on the main unit (2 recesses on right and left sides) and lift it until it stops.
2. Remove the front panel
   - While lifting the front panel further, slide it to the right and pull it to the front side. The left rotating shaft is detached. Slide the right rotating shaft to the left and pull it to the front side to remove it.
3. Attach the front panel
   - Align the right and left rotating shafts of the front panel with the grooves and push them all the way in.
   - Gently close the front panel. (Push both ends and the center on the front panel.)

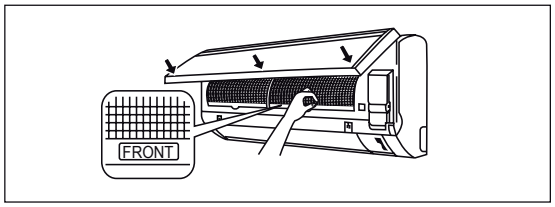


Air Filter

1. Open the front panel.
   - Hold the panel at the recesses on the main unit (2 recesses on right and left sides) and lift it until it stops.



2. Pull out the air filters.
   - Push a little upwards the tab at the center of each air filter, then pull it down.
3. Clean or replace each filter.
   - When shaking off remaining water, do not wring the filter.
4. Set the air filter and close the front panel.
   - Insert claws of the filters into slots of the front panel. Close the front panel slowly and push the panel at the 3 points. (1 on each side and 1 in the middle.)
   - The air filter have a symmetrical form in the horizontal direction.



⚠ Caution

- Don't touch the metal parts of the indoor unit. It may cause an injury.
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent from it falling.
- For cleansing, do no use hot water above 40°C, benzene, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hand stuff.
- After cleaning, make sure that the front panel is securely fixed.

Pre Start Up Maintenance
(After Extended Shutdown)

- Inspect thoroughly and clean indoor and outdoor units.
- Clean or replace air filters.
- Clean condensates drain line.
- Clean clogged indoor and outdoor coils.
- Check fan imbalance before operation.
- Tighten all wiring connections and panels.
- Check for refrigerant leakage.

Outdoor Models

The design of the A5LCY outdoor series allows servicing to be carried out easily. The removal of the top, front and side panels makes almost every part accessible.
Under normal circumstances, these outdoor units only require a check and cleaning of air intake coil surface once every 3 months. However, if a unit is installed in areas subjected to much oil mist and dust, the coils must be regularly cleaned by qualified Air Conditioner Service Technicians to ensure sufficient heat exchange and proper operation. Otherwise, the systems life span may be shortened.

⚠ Caution

- Do not charge OXYGEN, ACETYLENE OR OTHER FLAMMABLE and poisonous gases into the unit when performing a leakage test or an airtight test. These gases could cause severe explosion and damage if exposed to high temperature and pressure.
- It is recommended that only nitrogen or refrigerant be charged when performing the leakage or airtight test.

Troubleshooting

Fault Condition

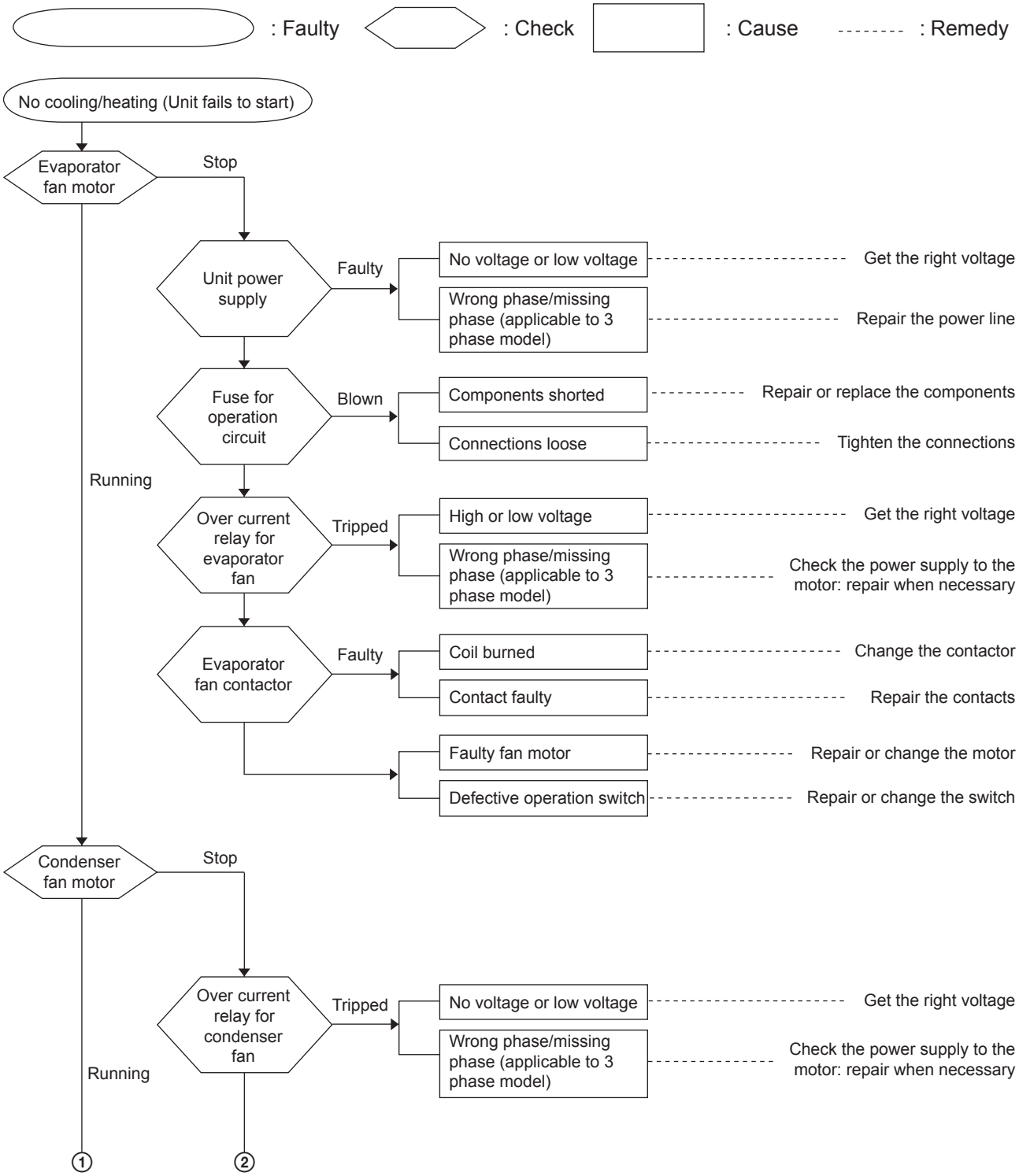
When a malfunction of the air conditioner unit is detected, immediately switch off the main power supply before proceeding with the following troubleshooting procedures.
The following are common fault conditions and simple troubleshooting tips. If any other fault conditions which are not listed occur, contact your nearest local dealer. DO NOT attempt to troubleshoot the unit by yourself.

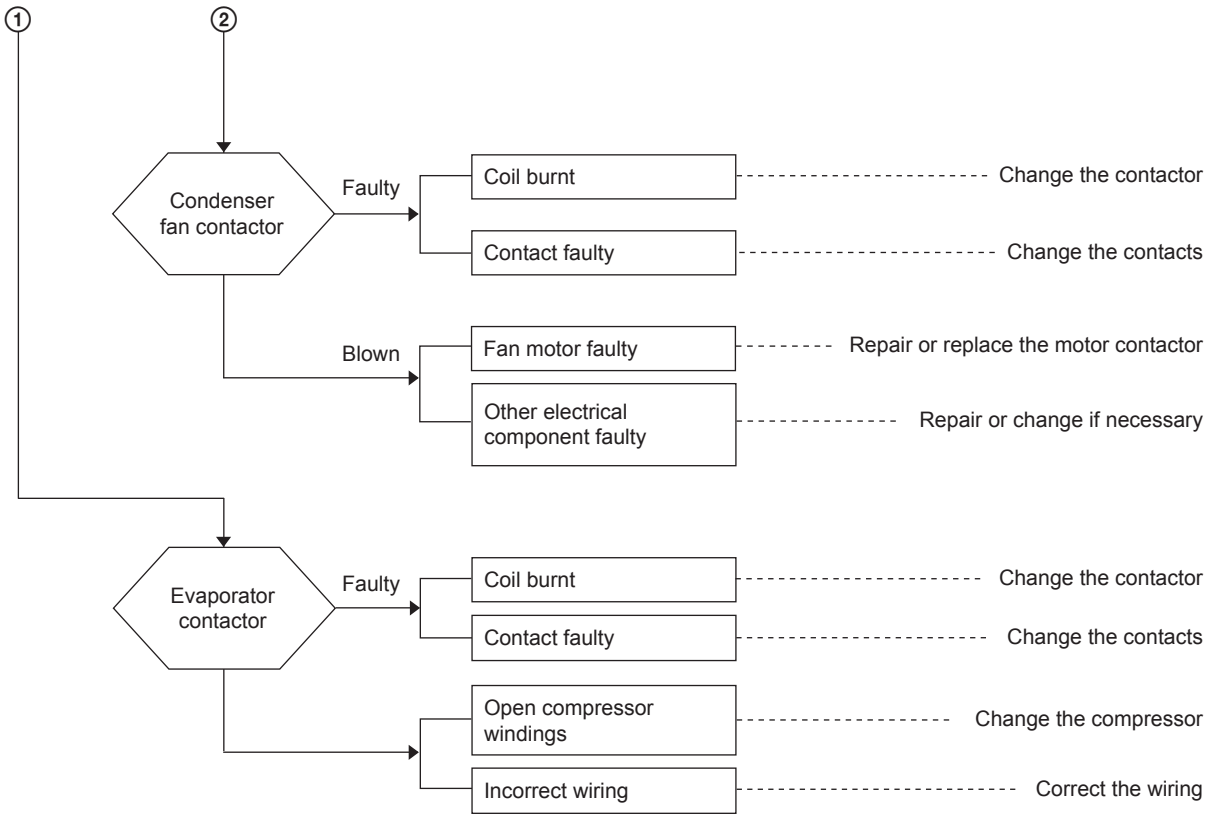
No	Fault conditions	Possible causes / corrective actions
1	The air conditioner unit will not resume after power failure.	• The auto restart function is not functioning. Please turn on the unit with the wireless / wired controller.
2	The airflow is too slow or room cannot be cooled sufficiently.	• The air filter is dirty. • The doors and windows are opened. • The air suction and discharge of both indoor and outdoor units are clogged or blocked. • The regulated temperature or temperature setting is not low enough.
3	Discharge airflow has bad odor.	• Cigarettes, smoke particles, perfume and others, which might have adhered onto the coil, may cause odor. • Contact your nearest dealer.
4	Condensation on the front air grille of the indoor unit.	• This is caused by air humidity after an extended period of operation. • The set temperature is too low. Increase the temperature setting and operate the unit at high fan speed.
5	Water flowing out from the air conditioner.	• Switch off the unit and contact your nearest dealer. This might be due to tilted installation.
6	Hissing airflow sound from the air conditioner unit during operation.	• Liquid refrigerant flowing into the evaporator coil.
7	The wireless controller display is dim.	• The batteries are discharged. • The batteries are not correctly inserted. • The assembly is not good.
8	Compressor operates continuously.	• Dirty air filter. Clean the air filter. • Temperature setting too low (cooling). Use higher temperature setting. • Temperature setting too high (heating), Use lower temperature setting.
9	No cool air comes out during cooling cycle, or no hot air comes out during heating cycle.	• Temperature setting too high (cooling). Use lower temperature setting. • Temperature setting too low (heating). Use higher temperature setting.
10	On heating cycle, warm air does not come out.	• Unit is in defrost mode. Heating operation will resume after defrost cycle ends.

By means of diagnostic flow chart:

Generally, there are two kinds of problems, i.e. starting failure and insufficient cooling / heating. “Starting failure” is caused by electrical defect while improper application or defects in refrigerant circuit causes “Insufficient cooling / heating”.

i) Diagnosis of Electric circuit

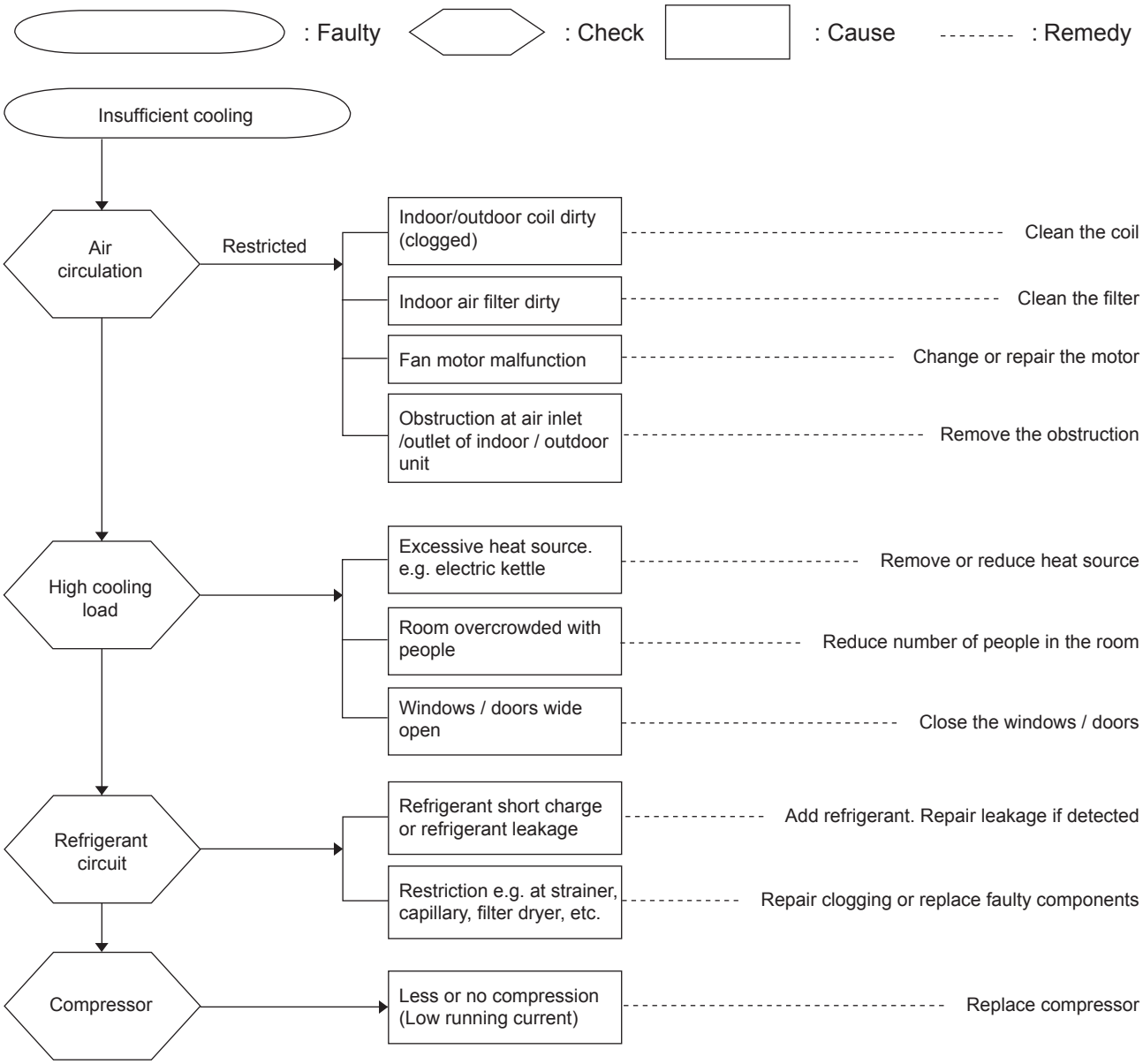




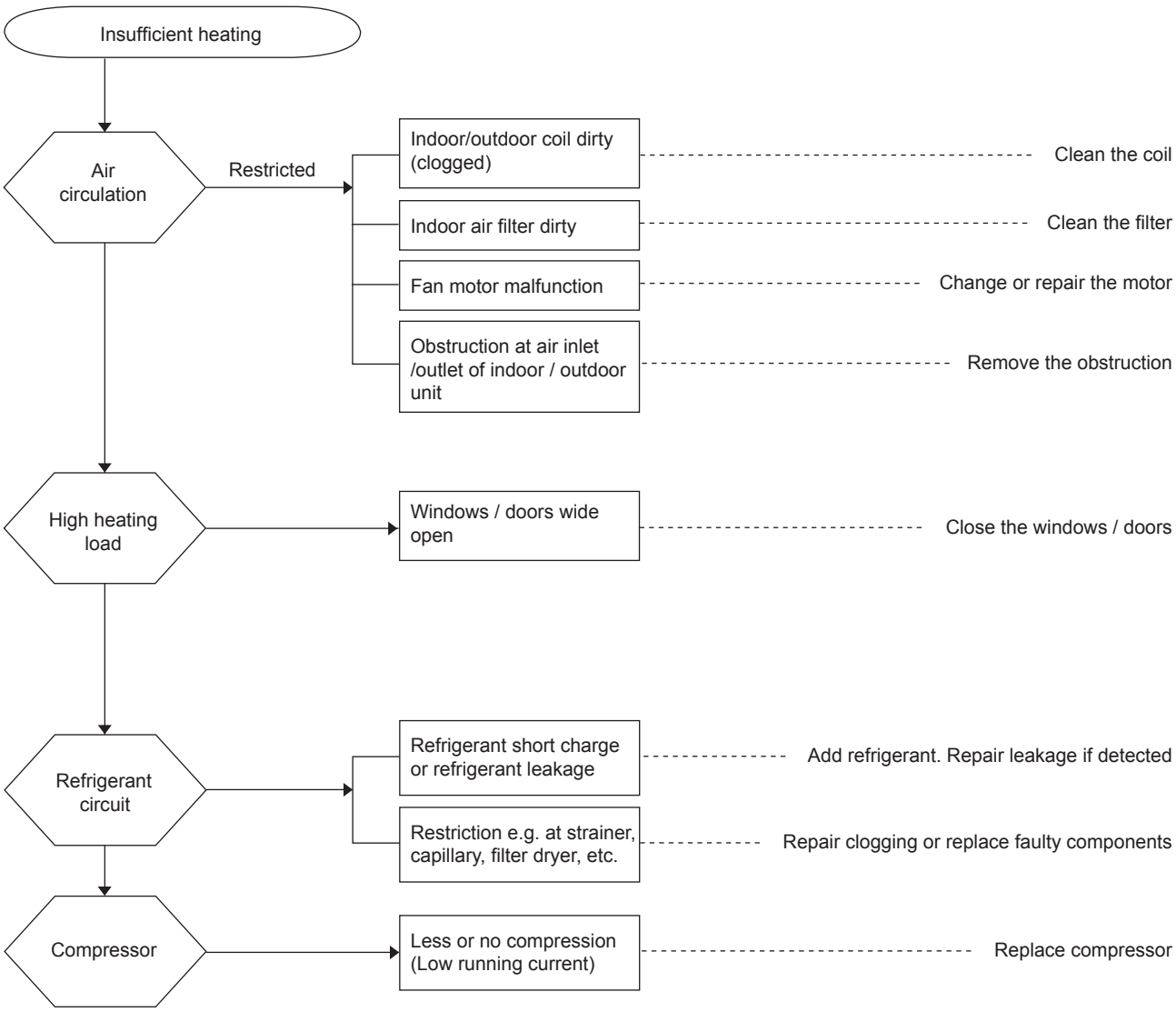
The most common causes of air conditioner failure to “start” are :
a) Voltage not within ±10% of rated voltage.
b) Power supply interrupted.
c) Improper control settings.
d) Air conditioner is disconnected from main power source.
e) Fuse blown or circuit breaker off.

ii) Diagnosis of Refrigerant Circuit / Application

There might be some causes where the unit starts running but does not perform satisfactorily, i.e. insufficient cooling. Judgement could be made by measuring temperature difference of indoor unit's intake and discharge air as well as running current.



Satisfactory operation with temperature difference of air intake & discharge of indoor unit 8°C to 13°C. *
(* value is for reference only)



Satisfactory operation with temperature difference of air intake & discharge of indoor unit 14°C to 20°C. *
(* value is for reference only)

Indicator Lights

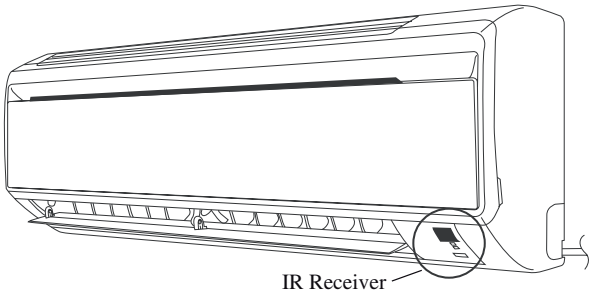
IR Signal Receiver

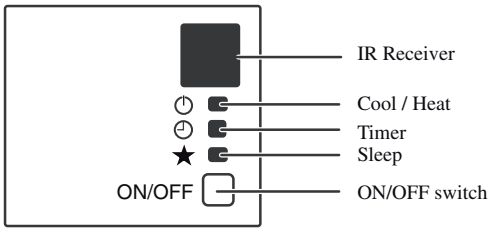
When an infrared remote control operating signal has been transmitted, the signal receiver on the indoor unit will respond as below to confirm acceptance of the signal transmission.

ON to OFF	1 Long Beep
OFF to ON Pump down/Cool force on	2 Short Beep
Others	1 Short Beep

Heat Pump Unit

The table shows the LED indicator lights for the air conditioner unit under normal operation and fault conditions. The LED indicator lights are located at the side of the air conditioner unit.The heat pump units are equipped with an “auto” mode sensor whereby it will provide reasonable room temperature by switching automatically to either “cool” or “heat” mode according to the temperature set by the user.



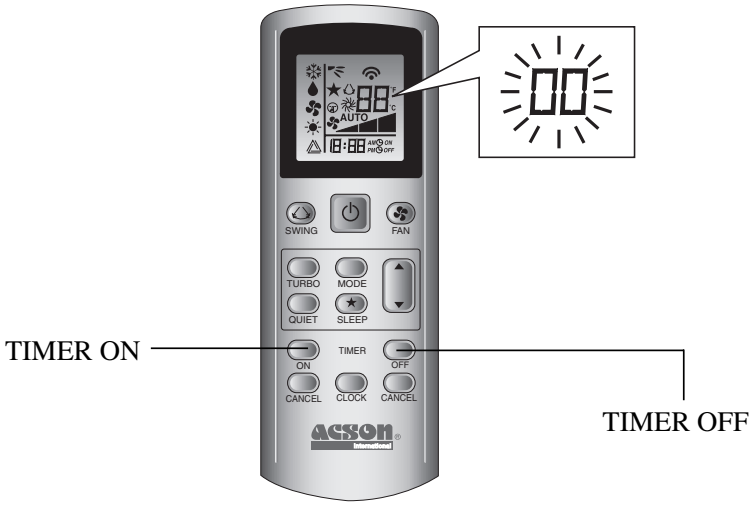


LED Indicator Lights: Normal Operation and Fault Conditions for Heat Pump Unit

★	⏻ COOL/HEAT (GREEN/RED)	🕘	**Normal Operation / Fault Indication**
	○ Green		Cool mode
	○ Red		Heat mode
	○ Red		Auto mode in Heating operation
	○ Green		Auto mode in Cooling operation
	○	○	Time off (when unit is on)
		○	Time on (when unit is off)
○	○		Sleep mode on
	○ Green		Fan mode on
	○ Green		Dry mode on
	◑ Red		Defrost operation
	◑ Green		Error indication

○ ON ◑ Blinking

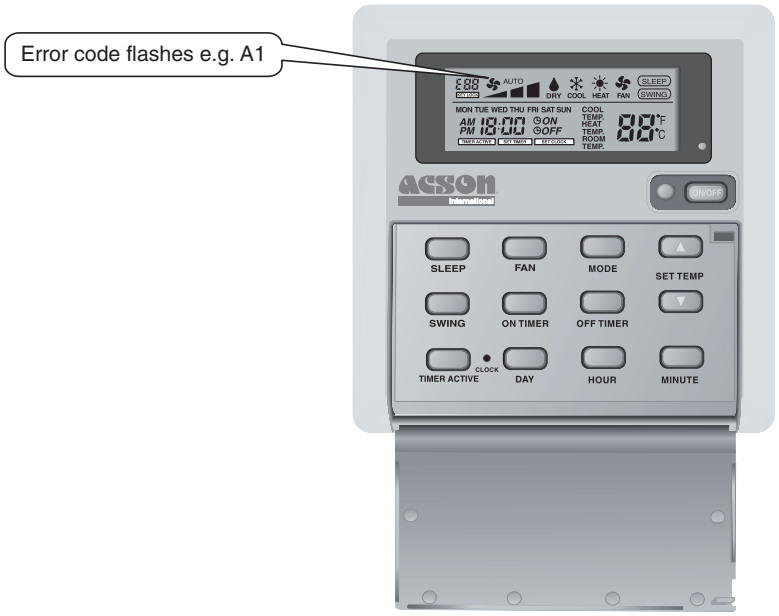
Error Code Diagnosis by Wireless Handset GS02



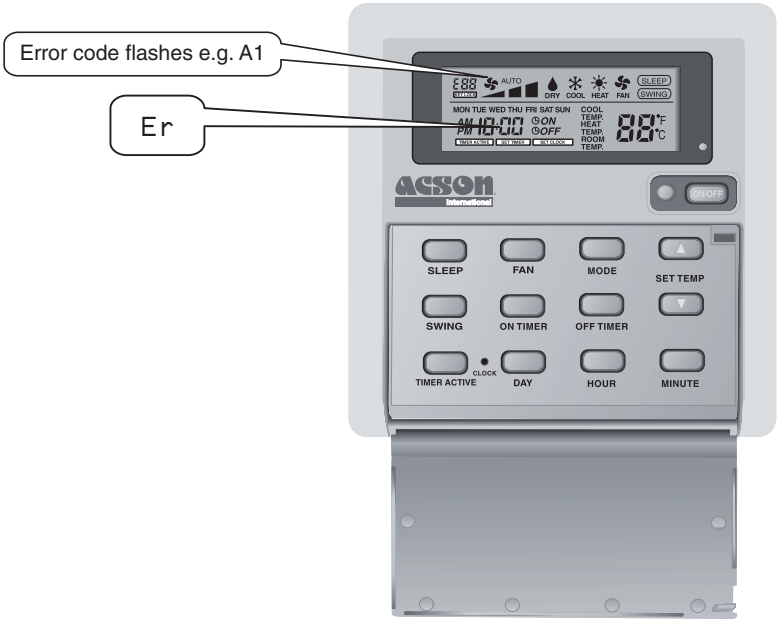
Diagnosis Step

1. Hold down ON TIMER CANCEL button or OFF TIMER CANCEL button for 5 seconds, a "00" indication flashes on the temperature display section.
2. Press ON TIMER CANCEL or OFF TIMER CANCEL repeatedly until indoor buzzer produces a long beep. This indicates the error code, refers to Error Codes table and is displayed on the temperature display section.
3. A short beep or two consecutive beeps indicate non-corresponding error codes.
4. To cancel the error code display, hold down ON TIMER CANCEL or OFF TIMER CANCEL button for 5 seconds. Alternatively, the code display will cancel itself if the button is not pressed for 1 minute.

Error Code Diagnosis by Wired Handset Netware 3C



Error display using normal running



Error display using unit last state memory

Error Codes

ERROR CODE	ERROR DESCRIPTION
00	NORMAL
A1	INDOOR PCB ERROR
A3	DRAIN PUMP ABNORMAL
A5	ANTIFREEZE (COOLING)/HEAT EXCHANGER OVERHEAT (HEATING)
A6	INDOOR FAN MOTOR ABNORMAL
AH	ELECTRICAL AIR CLEANER ABNORMAL
C4	INDOOR HEAT EXCHANGER (1) THERMISTOR SHORT/OPEN
C5	INDOOR HEAT EXCHANGER (2) THERMISTOR SHORT/OPEN
C7	LOUVER LIMIT SWITCH ERROR
C9	INDOOR ROOM THERMISTOR SHORT/OPEN
E1	OUTDOOR PCB ERROR
E3	HIGH PRESSURE PROTECTION
E4	LOW PRESSURE PROTECTION
E5	COMPRESSOR MOTOR LOCK/COMPRESSOR OVERLOADED
E6	COMPRESSOR START-UP ERROR
E7	OUTDOOR DC FAN MOTOR LOCK
E8	AC INPUT OVER CURRENT
E9	EXV ERROR
EA	4 WAY VALVE ERROR
F3	DISCHARGE PIPE OVERHEAT
F6	HEAT EXCHANGER OVERHEAT
HO	COMPRESSOR SENSOR SYSTEM ERROR
H3	HIGH PRESSURE SWITCH ERROR
H6	COMPRESSOR FEEDBACK DETECTION ERROR
H7	FAN MOTOR OVERLOADED/OVERCURRENT/SENSOR ABNORMAL
H8	AC CURRENT SENSOR ERROR
H9	OUTDOOR AIR THERMISTOR SHORT/OPEN
J1	PRESSURE SENSOR ERROR
J3	COMPRESSOR DISCHARGE PIPE THERMISTOR SHORT/OPEN/MISPLACED
J5	SUCTION PIPE THERMISTOR SHORT/OPEN
J6	OUTDOOR HEAT EXCHANGER THERMISTOR SHORT/OPEN
J7	SUBCOOLING HEAT EXCHANGER THERMISTOR SHORT/OPEN
J8	LIQUID PIPE THERMISTOR SHORT/OPEN
J9	GAS PIPE THERMISTOR SHORT/OPEN
L1	INVERTER OUTDOOR PCB ERROR
L3	OUTDOOR CONTROL BOX OVERHEAT
L4	HEAT SINK OVERHEAT
L5	IPM ERROR/IGBT ERROR
L8	INVERTER COMPRESSOR OVERCURRENT
L9	COMPRESSOR OVERCURRENT PREVENTION

ERROR CODE	ERROR DESCRIPTION
LC	COMMUNICATION ERROR (OUTDOOR CONTROL PCB AND INVERTER PCB)
P1	OPEN PHASE OR VOLTAGE UNBALANCE
P4	HEAT SINK THERMISTOR SHORT/OPEN
PJ	CAPACITY SETTING ERROR
U0	INSUFFICIENT GAS
U2	DC VOLTAGE OUT OF RANGE
U4	COMMUNICATION ERROR
U7	COMMUNICATION ERROR (OUTDOOR CONTROL PCB AND IPM PCB)
UA	INSTALLATION ERROR
UF	PIPING & WIRING INSTALLATION MISMATCH/WRONG WIRING/INSUFFICIENT GAS
UH	ANTIFREEZE (OTHER ROOMS)

Unit Running Parameter

Parameter Number	Parameter Description	Unit/ range
00	Compressor Actual Rotation	r/s
01	Compressor Target Rotation	r/s
02	DC Bus Voltage	VDC
03	Total Current (÷10)	A
04	Outdoor Air Temperature	°C
05	Outdoor Heat Exchanger Temperature	°C
06	Compressor Discharge Temperature	°C
07	Outdoor Heatsink Temperature	°C
08	Indoor Air Temperature	°C
09	Indoor Heat exchanger Temperature	°C
10	EXV Opening	Pulse
11	Outdoor fan speed	W0 ~ W6
12	Horse power	15: 1.5hp
13	Software version (Production)	
14	Software version (Development)	
15	3 minutes count up stop timer	
16	Communication stage	0~3
17	Indoor On/Off	0- Off, 1-ON
18	Delta D	
19	Running mode	0-Fan, 1- Heat, 2-Cool
20	Startup up timer	
21	Comp initial control flag ok	
22	Fuzzy control Delta H	
23	Comp freq set pointer	
24	Comp stop pointer	
25	Comp limit pointer	
26	Comp limit speed	Max r/s
27	Discharge high temp zone	0-Normal, Other-Active
28	High pressure zone	0-Normal, Other-Active

Parameter Number	Parameter Description	Unit/ range
29	Current control zone	0-Normal, Other-Active
30	Oil return status	0-Normal, Other-Active
31	De-ice setting	0-Normal, Other-Active
32	Dew drop setting	0-Normal, Other-Active
33	Heatsink protection zone	0-Normal, Other-Active
34	Turbo setting	0-Normal, Other-Active
35	Silent setting	0-Normal, Other-Active
36	Low ambient zone	0-Normal, Other-Active
37	Defrost status	0-Normal, Other-Active
38	Pump down status	0-Normal, Other-Active
39	O/D capacity flag	0- Comp off, 1- Comp On
40	O/D output capacity	In %
41	Target discharge temp	
42	EXV control status	0-Initial , 1- Feedback
43	Indoor fan tap	
44	O/D error code	
45	I/D error code	
46	Low voltage control zone	0-Normal, Other-Active
47	Gas leak detection	0-Normal, Other-Active
48	Discharge sensor disconnected	0-Normal, Other-Active
49	Official test setting	0-Normal, Other-Active
50	Skip frequency flag	0-Normal, Other-Active
51	Last O/D error code	
52	2nd last O/D error code	
53	3rd last O/D error code	

Error Code Diagnosis by Unit Last State Memory Using Wireless Handset

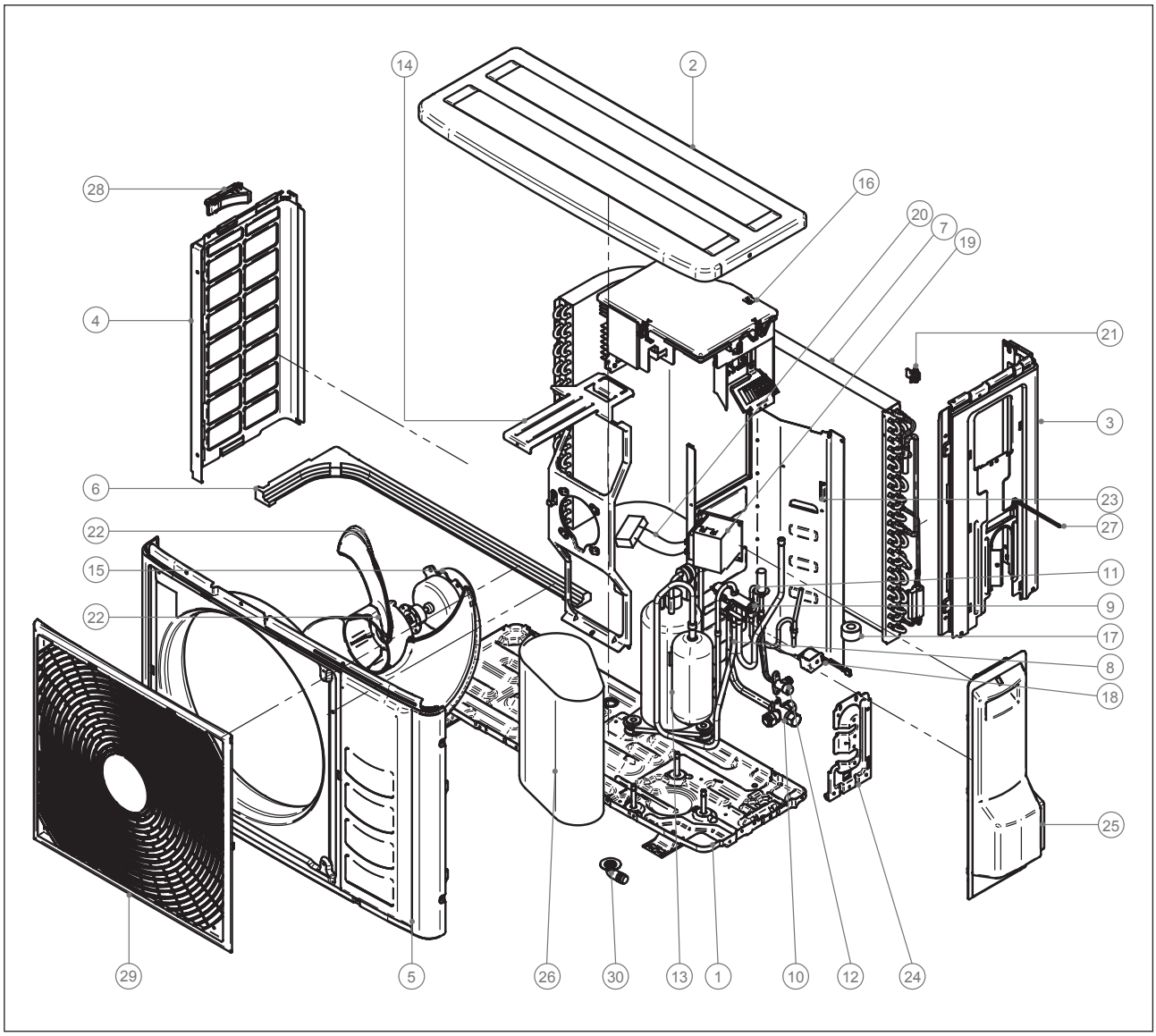
1. Remove battery from wireless handset.
2. Wait for the display to finally go off (as this handset uses very small amount of power, hence it takes longer for the memory to reset).
3. Replace battery again and immediately (before display comes back on the LCD screen), press on Mode and ON/OFF buttons together until you see “00” is being displayed.
4. Press Mode button to 5:00.
5. Press ON/OFF button once.
6. After that, remove battery from wireless handset and wait until the display has gone off. Then, replace battery again into the handset.
7. Finally, repeat the fault diagnosis steps by wireless handset GS02 above.

Error Code Diagnosis by Unit Last State Memory Using Wired Handset

1. Press SLEEP and TIMER ACTIVE buttons together until error code starts flashing on the fan speed indicator area.

Exploded View and Part List

Outdoor Unit
Model: A5LCY 10/15DR



Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

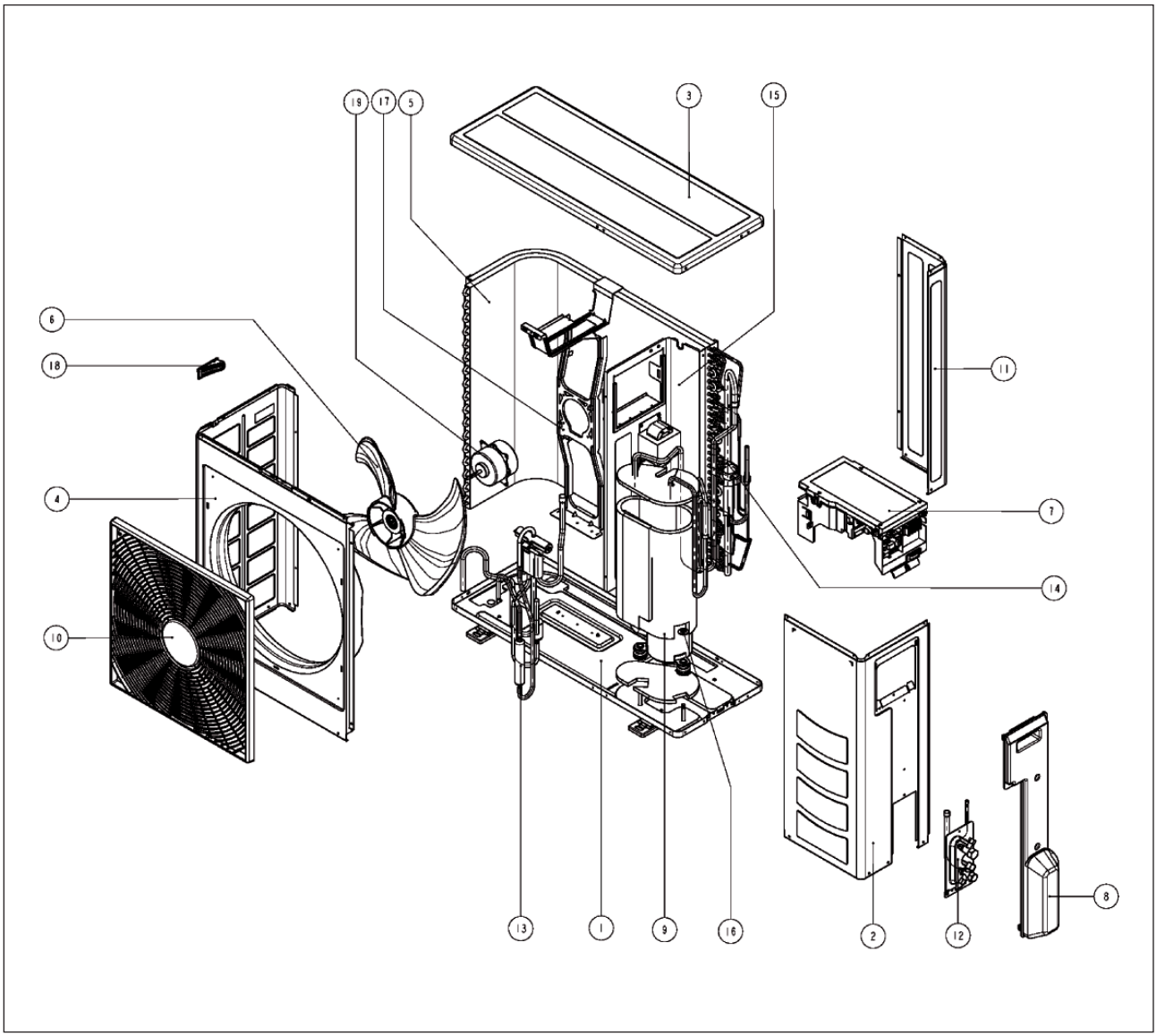
Outdoor Unit
Model: A5LCY 10/15DR

No	Description
1	Assy. Botttom Frame
2	Top Plate
3	Right Side Plate
4	Left Side Plate
5	Front Panel
6	Sealing Material
7	Assy. Coil
8	Assy. 4WV
9	Valve, Rev 4 Way
10	Valve, 3 Way 1/2”
11	Assy. EXV w/o Service Valve
12	Valve, 2 Way 1/4”
13	Compressor
14	Assy. Fan Motor
15	Motor

No	Description
16	Assy. Control Box
17	EXV Solenoid Coil
18	Assy. 4WV Coil
19	Reactor
20	Assy. Reactor Wire
21	Thermistor Holder
22	Assy. Propeller Fan
23	Assy. Panel Partition
24	Stop Valve Mounting Plate
25	Assy. Stop Valve Cover
26	Ins. Comp. Sound
27	Releasable Tie
28	Handle
29	Front Grille
30	Drain Joint

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

Outdoor Unit
Model: A5LCY 20/25CR

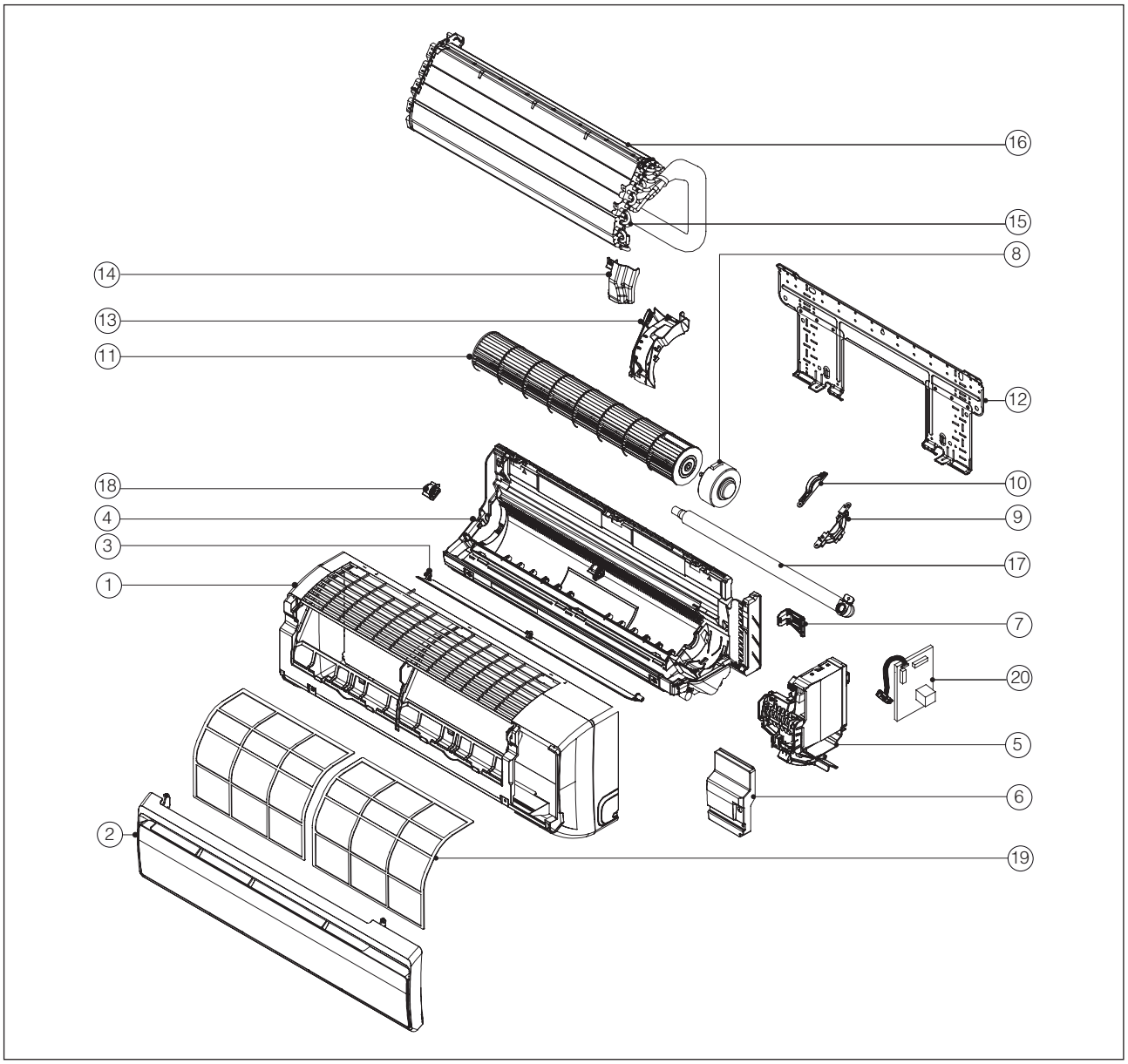


No	Description
1	Assy. Base Fan
2	Panel, Service
3	Panel, Top
4	Panel, Front/Left
5	Assy. Coil
6	Assy. Propeller Fan
7	Assy. Control Box
8	Assy. Valve Cover
9	Compressor
10	Plastic, Front Grille

No	Description
11	Panel, Right Back
12	Assy. Valve Bracket
13	Assy. 4WV
14	Assy. EXV
15	Assy. Partition
16	Nut M8, with flange
17	Bracket, Motor
18	Plastic, Handle
19	Motor

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

Indoor Unit
Model: A5WMY 10/15JR

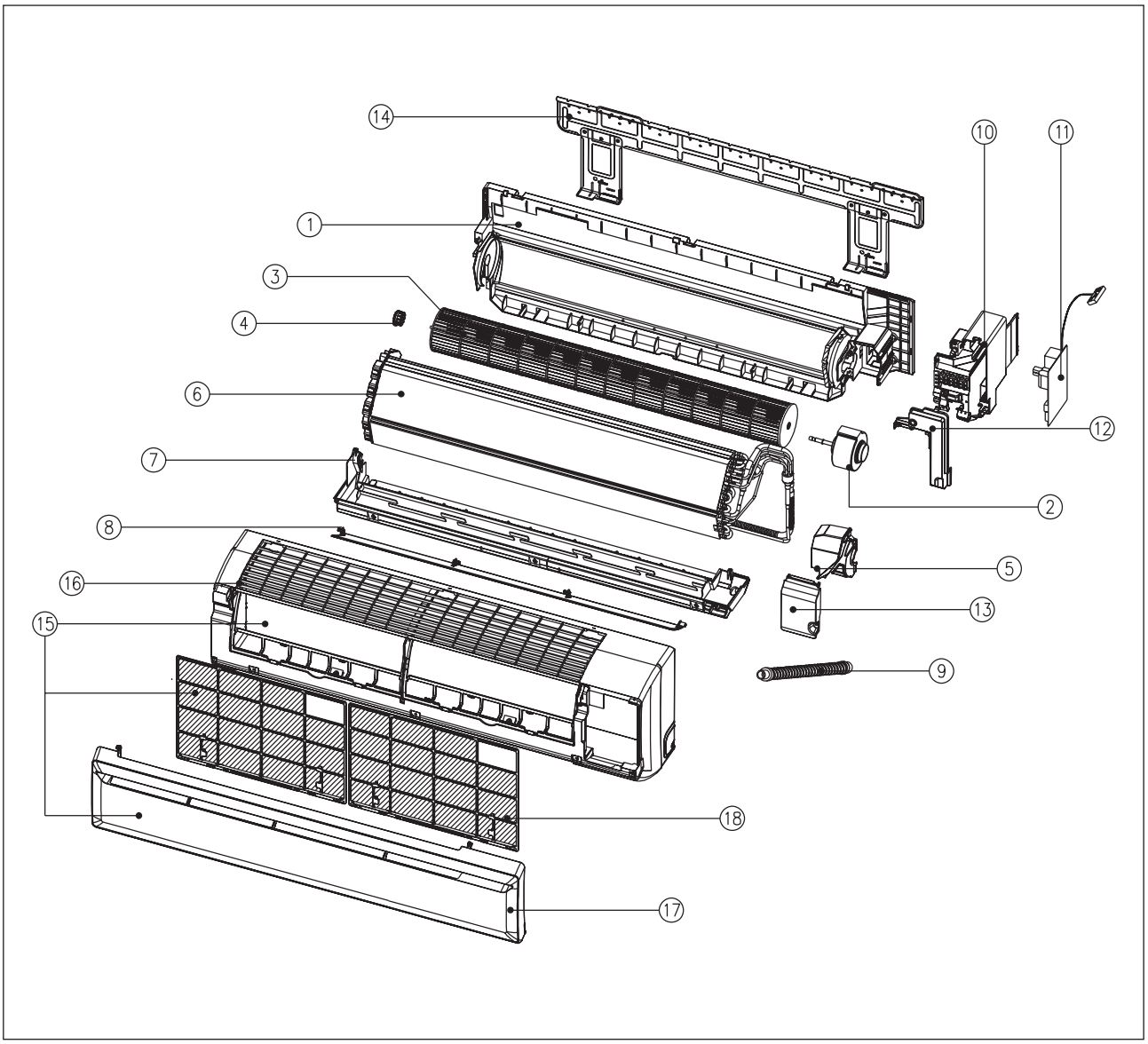


No	Description
1	Assy. Front Grille
2	Panel
3	Disch. Grille Hor.Blade Assy.
4	Assy. Bottom Frame
5	Assy. Control Box
6	Assy. Service Cover
7	Assy. Piping Fixture
8	Motor
9	Motor Mounting Plate (1)
10	Motor Mounting Plate (2)

No	Description
11	Blower
12	Assy. Installation Plate
13	Right Side Panel
14	Cover, Drip Proof
15	Clip, Coil Sensor
16	Assy. Heat Exchanger
17	Assy. Drain Hose
18	Fan Bearing Vibration Absorber
19	Air Filter
20	Assy. Control Module

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

Indoor Unit
Model: A5WMY 20/25JR

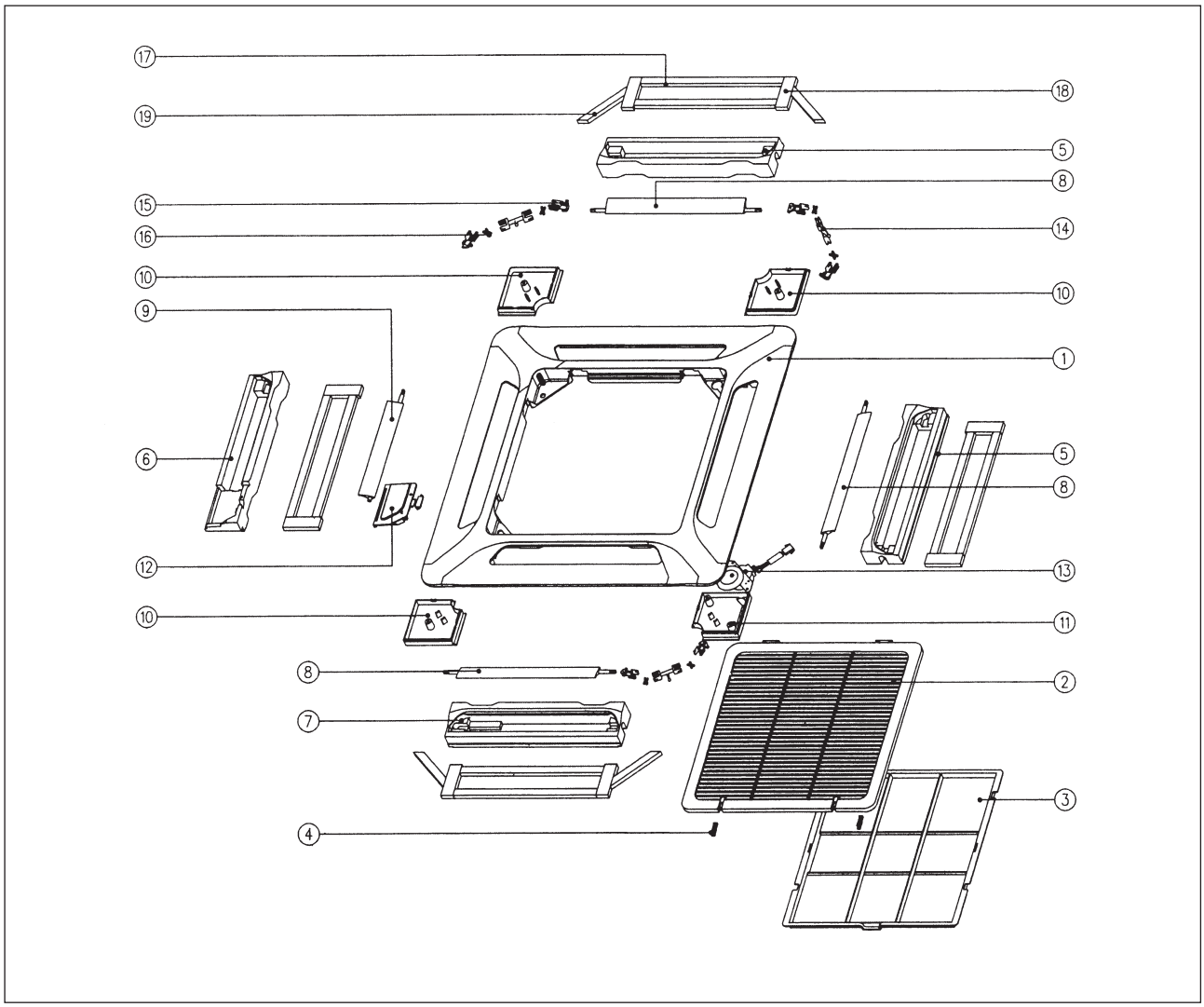


No	Description
1	Assy. Chasis
2	Motor
3	Blower
4	Fan Bush
5	Cover, Motor
6	Assy. Heat Exchanger
7	Assy. Air Discharge Housing
8	Assy. Louver
9	Hose

No	Description
10	Assy. Control Box
11	Assy. Control Module
12	Cover, Control Box
13	Cover, Service
14	Assy. Mounting Plate
15	Assy. Front Cover
16	Cover, Front
17	Intake Grille
18	Filter

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

Indoor Unit
Model: PLCKY-CR

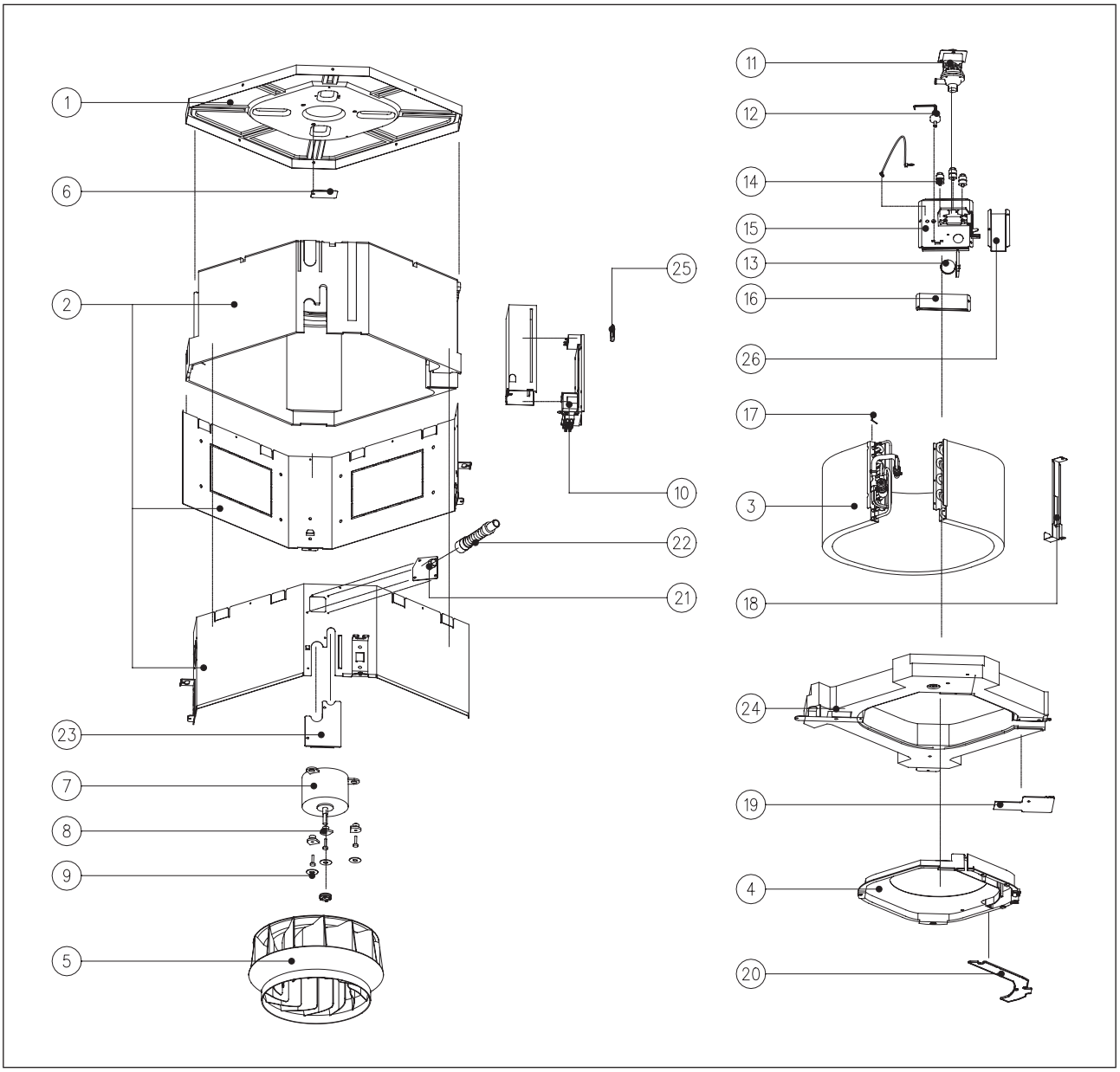


No	Description
1	Frame
2	Assy. Intake Grille B
3	Filter
4	Lock, Grille
5	Discharge, Foam
6	Discharge, Foam LED
7	Discharge, Foam Short
8	Louver
9	Louver, LED
10	Lingkage, Cover

No	Description
11	Lingkage, Motor Cover
12	Assy. Bracket Receiver (LED/SLM)
13	Assy. Motor
14	Crank, Connector
15	Louver, Holder
16	Cross, Crank
17	Ins. Long
18	Ins. Short
19	Ins. Corner

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

Indoor Unit
Model: A5CKY 10/15/20CR



Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

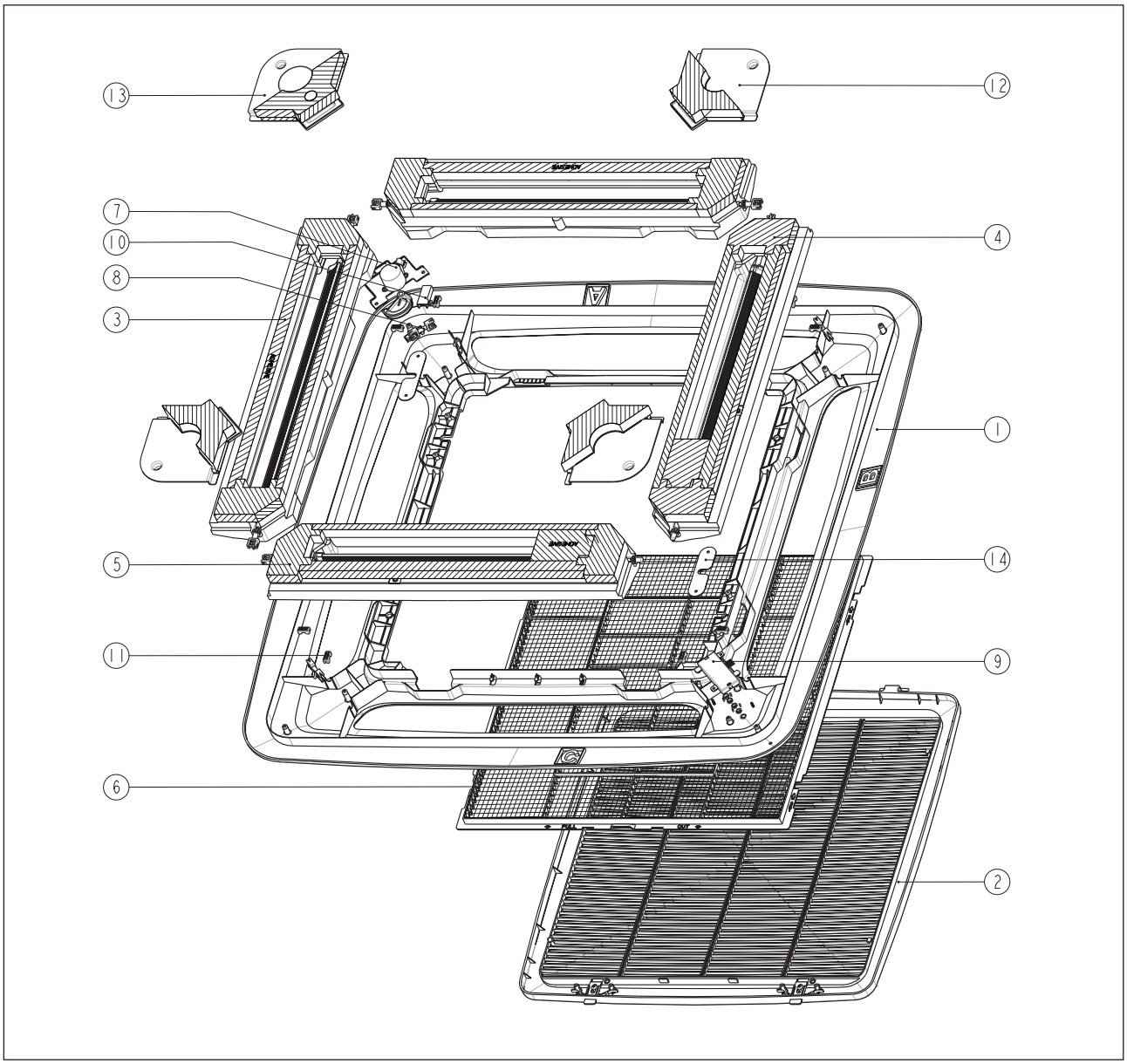
Indoor Unit
Model: A5CKY 10/15/20CR

No	Description
1	Assy. Base
2	Assy. Casing
3	Assy. Heat Exchanger
4	Cover, Fan
5	Blower
6	Plate, Wire
7	Motor
8	Bush, Motor
9	Bush, Motor Ring
10	Assy. Control Box
11	Pump, Water
12	Switch, Water Level
13	Bush, Wire

No	Description
14	Bush, Pump
15	Assy. Drain Pump Support Bracket
16	Assy. End Plate Support
17	Clip, Coil Sensor
18	Support, Heat Exchanger
19	Cover, Terminal
20	Assy. Cover Wire
21	Connector, Drain
22	Hose, Drain
23	Assy. Cover Valve
24	Assy. Drain Pan
25	Bush, Wire
26	Cover, Wire Bracket

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

Indoor Unit
Model: PLCKY-ER

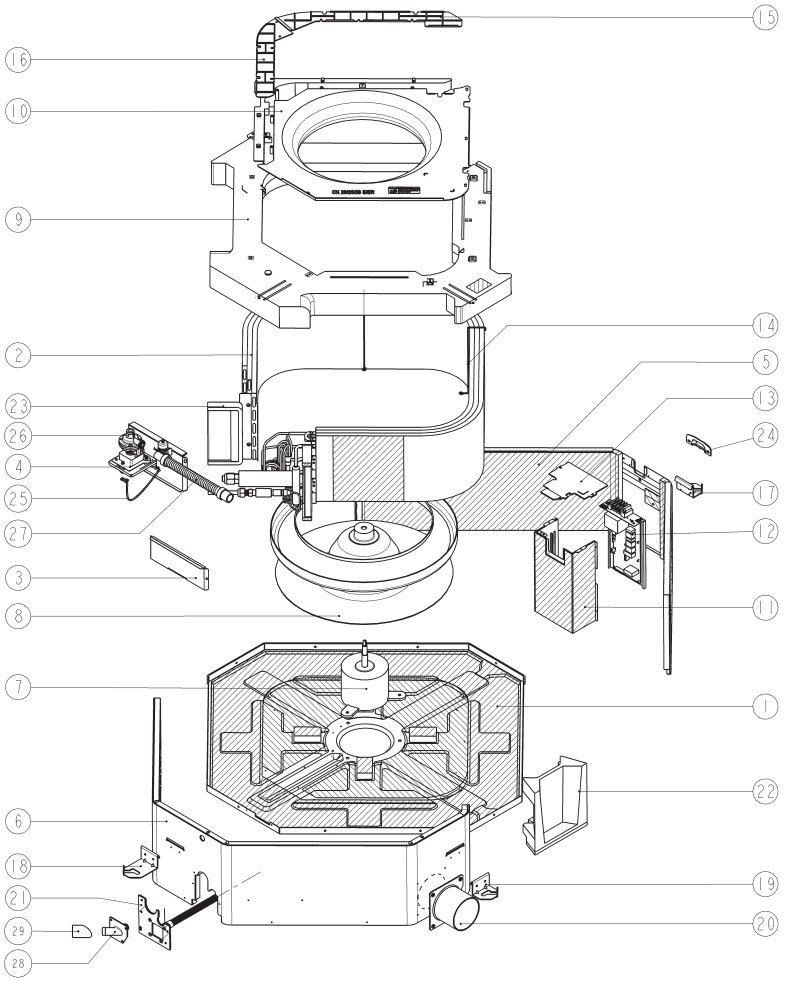


No	Description
1	Front, Frame
2	Assy., Intake Grille
3	Assy., Air Discharge Main
4	Assy., Air Discharge Main Right
5	Assy., Air Discharge Main Left
6	Air Filter, CK-A/AR
7	Assy., Air Swing Motor

No	Description
8	Crank Connector
9	Assy., LED
10	Wire, Guide
11	Cover, Cross Connector
12	Assy., Cover Corner A
13	Assy., Cover Corner B
14	Mounting Plate

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

Indoor Unit
Model: A5CKY 20/25ER

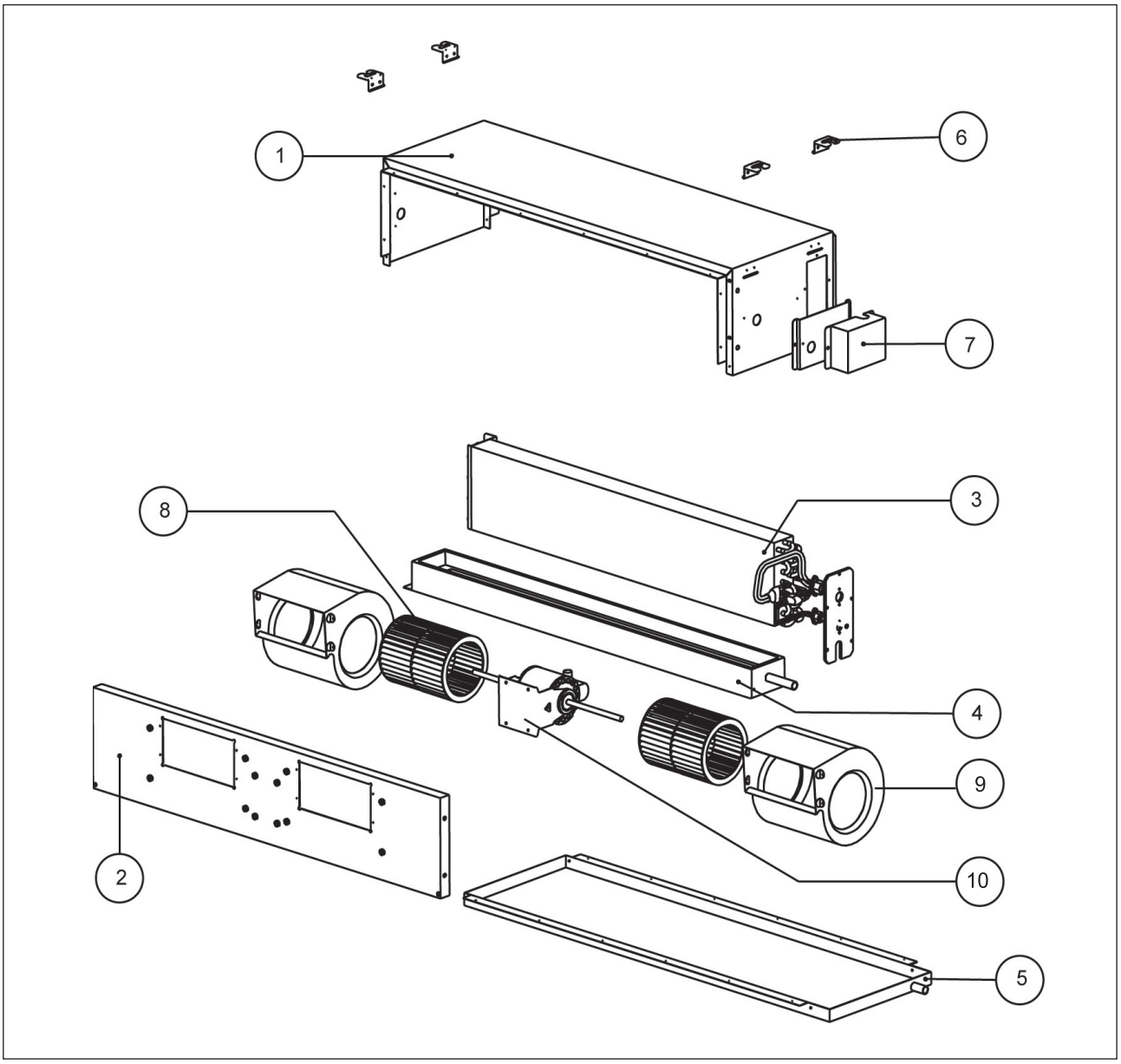


No	Description
1	Assy. Base Pan
2	Assy. Coil
3	Assy. Coil Bracket
4	Assy. Drain Pump Mounting
5	Assy. Panel Side Back
6	Assy. Side Panel Front
7	Assy. Motor & Rubber
8	Blower, Turbo Fan DIA462 X 171.5 3P085496-1
9	Assy. Drain Pan
10	Assy. Fan Cover
11	Assy. Cover Control Box
12	Assy. Control Box
13	Assy. Cover Terminal
14	Support, Coil
15	Cover, Wire A

No	Description
16	Cover, Wire B
17	Bracket, Hanger A
18	Bracket, Hanger B
19	Bracket, Hanger C
20	Fresh Air Adaptor
21	Assembly, Valve Plate
22	Assy. Air Guide
23	Assy. Partition Holder
24	Cover, Wire
25	Switch Water Level 1A - CK Drain Pump
26	Pump, Water PC-04226-OYOB YCK
27	Hose, Drain PE 18.3 X 0.5 X 315.0
28	Connector, Drain
29	Ins., Drain Connector

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

Indoor Unit
Model: A5CCY 10/15/20/25CR

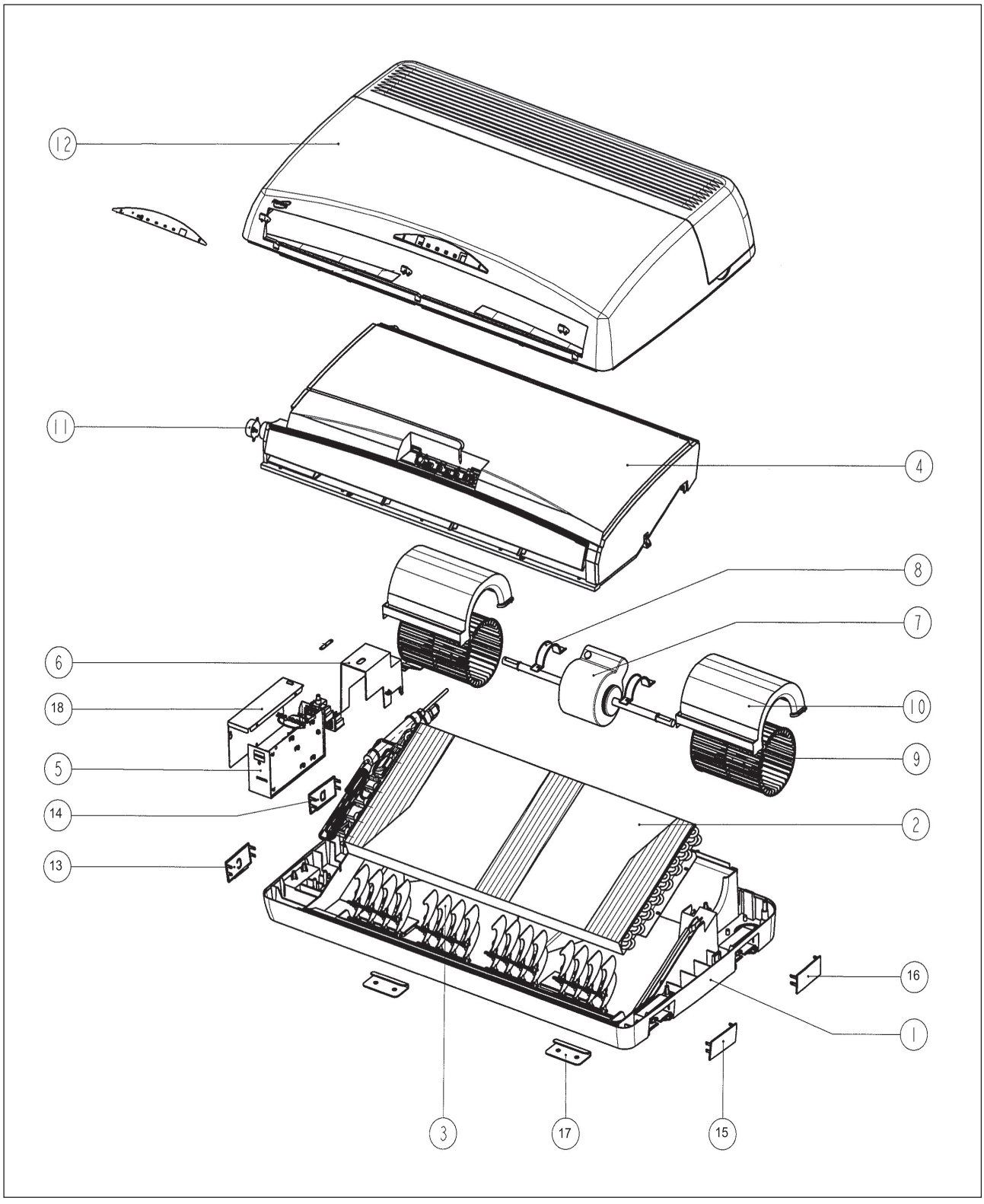


No	Description
1	Cabinet
2	Assy. Fan Deck
3	Assy. Heat Exchanger
4	Assy. Drain Pan
5	Assy. Secondary Drain Pan
6	Hanger
7	Control Module
8	Assy. Blower Right

No	Description
9	Assy. Blower Left
10	Motor
Parts Not in Diagram	
	Handset, Wired
	Air Filter
	Holder, Thermistor
	Clip, Coil Sensor

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

Indoor Unit
Model: A5CMY 15/20/25ER



Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

Indoor Unit
Model: A5CMY 15/20/25ER

No	Description
1	Assy. Top Panel
2	Assy. Heat Exchanger
3	Assy. Vane
4	Assy. Drain Pan
5	Assy. Control Box
6	Terminal Box Cover
7	Motor
8	Bracket, Motor
9	Blower
10	Housing, Blower
11	Motor, Louver

No	Description
12	Assy. Panel Bottom
13	Cover, Hanger L1 (C)
14	Cover, Hanger L2 (D)
15	Cover, Hanger R1 (A)
16	Cover, Hanger R2 (B)
17	Bracket, Mounting
18	Control Box Cover
Parts Not in Diagram	
	Handset, Wireless
	Control Module
	Intake Grille

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

ACSON International