

Models:

AWM 07G
AWM 09G/GR
AWM 10G/GR
AWM 15G/GR
AWM 20G/GR
AWM 25G/GR
AWM 301/301R

A5WM 07G/GR
A5WM 09G/GR
A5WM 10G/GR
A5WM 15G/GR
A5WM 20G/GR
A5WM 25G/GR
A5WM 311/301R

ACSON[®]
International



Wall Mounted Split Systems

AWM - G - 2009

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Nomenclature

Indoor Unit

A		WM	10	G	R
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Brand	
A	: Acson

Refrigerant	
" "	: Omitted if R22
4	: R407C
5	: R410A

Model Name	
WM	: Wall Mounted

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

Chassis	
G	: G Series
J	: J Series

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

Outdoor Unit

A	5	LC	10	C	R
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Brand	
A	: Acson

Refrigerant	
" "	: Omitted if R22
4	: R407C
5	: R410A

Model Name	
LC	: Single Split Condensing Unit

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

Chassis	
C	: C Series

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

Product Line-Up

Indoor Unit AWM-G Series

AWM		Nomenclature	Classification															
			PCB		Handset		Air Purification						Grille		Marking		Others	
			L2.0		G18		Ionizer Filter	Saranet Filter	Negative Ionizer	Nano Technology Air Filtration			B		CE		Orifice Kit	
COOLING	07G	ACIBE	X		X			X	X			X		X				
	09G	ACIBE	X		X			X	X			X		X				
	10G	ACIBE	X		X			X	X			X		X				
	15G	ACIBE	X		X			X	X			X		X				
	20G	ACIBE	X		X			X	X			X		X				
	25G	ACIBE	X		X			X	X			X		X				
	301	AFBF	X		X		X	X						X		X		
HEATPUMP	09GR	ACIBE	X		X			X	X			X		X				
	10GR	ACIBE	X		X			X	X			X		X				
	15GR	ACIBE	X		X			X	X			X		X				
	20GR	ACIBE	X		X			X	X			X		X				
	25GR	ACIBE	X		X			X	X			X		X				
	301R	AFAE	X		X		X	X						X				

**Indoor Unit
A5WM-G Series**

A5WM		Nomenclature	Classification															
			PCB		Handset		Air Purification				Grille		Marking		Others			
			L2.0		G18		Ionizer Filter	Saranet Filter	Negative Ionizer	Nano Technology Air Filtration			B		CE			
COOLING	07G	ACIBE	X		X				X	X				X		X		
	09G	ACIBE	X		X				X	X				X		X		
	10G	ACIBE	X		X				X	X				X		X		
	15G	ACIBE	X		X				X	X				X		X		
	20G	ACIBE	X		X				X	X				X		X		
	25G	ACIBE	X		X				X	X				X		X		
	311	AFCE	X		X		X	X								X		
HEATPUMP	07GR	ACIBE	X		X				X	X				X		X		
	09GR	ACIBE	X		X				X	X				X		X		
	10GR	ACIBE	X		X				X	X				X		X		
	15GR	ACIBE	X		X				X	X				X		X		
	20GR	ACIBE	X		X				X	X				X		X		
	25GR	ACIBE	X		X				X	X				X		X		
	301R	AFCE	X		X		X	X								X		

**Outdoor Unit
ALC-C Series**

ALC		Nomenclature	Classification															
			PCB		Refrigerant Control		FIN		Safety Devices		Compressor		Marking		Others		Special	
					Cap Tube		Gold Coated	Bare	Contactors		Rotary	CE			Drain Elbow		Low Ambient Kit	
COOLING	07C	ACPOE		X		X				X	X							
	07C	ACPIE		X	X					X	X							
	09C	ACPOD		X		X				X	X							
	09C	ACPID		X	X					X	X							
	10C	ACPOB		X		X				X	X							
	10C	ACPIB		X	X					X	X							
	15C	ACPOD		X		X				X	X							
	15C	ACPID		X	X					X	X							
	18C	ACPOD		X		X				X	X							
	18C	ACPID		X	X					X	X							
	18C	ACPBD		X		X	X			X	X							
	20C	ACPOD		X		X				X	X							
	20C	ACPID		X	X					X	X							
	20C	ACPBD		X		X	X			X	X							
	25C	ACPOD		X		X				X	X							
	25C	ACPID		X	X					X	X							
	25C	ACPBD		X		X	X			X	X							
	28C	ACHOB				X				X	X							
	28C	ACHIB			X					X	X							
	28C	ACHBB				X	X			X	X							

**Outdoor Unit
ALC-C Series**

ALC		Nomenclature	Classification															
			PCB		Refrigerant Control		FIN		Safety Devices		Compressor		Marking		Others		Special	
					Cap Tube		Gold Coated		Bare	Contactors			Rotary	CE			Drain Elbow	
HEATPUMP	09C	ACPOD			X			X					X	X				
	09C	ACPID			X	X							X	X				
	10C	ACPOB			X			X					X	X				
	10C	ACPIB			X	X							X	X				
	15C	ACPOA			X			X					X	X				
	15C	ACPIA			X	X							X	X				
	18C	ACPOD			X			X					X	X				
	18C	ACPID			X	X							X	X				
	20C	ACPOD			X			X					X	X				
	20C	ACPID			X	X							X	X				
	25C	ACPOD			X			X					X	X				
	25C	ACPID			X	X							X	X				
	28C	ACHOB			X			X					X	X				
	28C	ACHIB			X	X							X	X				

**Outdoor Unit
A5LC-C Series**

A5LC		Nomenclature	Classification															
			PCB		Refrigerant Control		FIN		Safety Devices			Compressor		Marking		Others		Special
					Cap Tube		Gold Coated		Bare	Contact	Phase Sequencer		Rotary	CE			Low Ambient Kit	
COOLING	07C	ACPOE			X			X				X	X					
	07C	ACPIE			X	X						X	X					
	10C	ACPOB			X			X				X	X					
	10C	ACPIB			X	X						X	X					
	15C	ACPOC			X			X				X	X					
	15C	ACPIC			X	X						X	X					
	20C	ACPOC			X			X				X	X					
	20C	ACPIC			X	X						X	X					
	20C	ACPGC			X			X				X	X		X			
	20C	FCPOC			X			X	X	X		X	X					
	20C	FCPGC			X			X	X	X		X	X		X			
	25C	ACPOC			X			X				X	X					
	25C	ACPIC			X	X						X	X					
	25C	ACPGC			X			X				X	X		X			
	25C	FCPOC			X			X	X	X		X	X					
	25C	FCPGC			X			X	X	X		X	X		X			
	28C	ACPOA			X			X				X	X					
	28C	ACPIA			X	X						X	X					
	28C	ACPGA			X			X				X	X		X			
	28C	FCPOA			X			X	X	X		X	X					
28C	FCPGA			X			X	X	X		X	X		X				

**Outdoor Unit
A5LC-C Series**

A5LC		Nomenclature	Classification																
			PCB		Refrigerant Control		FIN		Safety Devices			Compressor		Marking		Others		Special	
					Cap Tube		Gold Coated		Bare	Contactor	Phase Sequencer		Rotary	CE			Low Ambient Kit		Drain Elbow
HEATPUMP	07C	ACPOE			X			X					X	X					
	07C	ACPIE			X		X						X	X					
	10C	ACPOB			X			X					X	X					
	10C	ACPIB			X		X						X	X					
	15C	ACPOC			X			X					X	X					
	15C	ACPIC			X		X						X	X					
	20C	ACPOC			X			X					X	X					
	20C	ACPIC			X		X						X	X					
	20C	FCPOC			X			X	X	X			X	X				X	
	25C	ACPOC			X			X					X	X					
	25C	ACPIC			X		X						X	X					
	25C	FCPOC			X			X	X	X			X	X				X	
	28C	ACPOA			X			X					X	X					
	28C	ACPIA			X		X						X	X					
	28C	FCPOA			X			X	X	X			X	X				X	

Features

Excellent Air Distribution

Air discharge direction can be adjusted in four directions, manually or automatically by using LCD remote control. The new double louver design with automatic air swing function fully optimizes the room comfort by distributing the air evenly to the room. The unique skew fan design with larger diameter creates better air flow to the operating environment.

Self Diagnosis

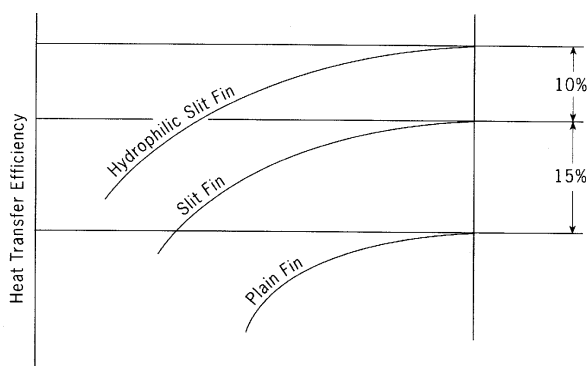
This function is able to detect and to diagnose any faults occurring in the system by blinking of the LED lights. Simplify and ease for troubleshooting.

Facilitated Maintenance Ensure

The new design of air discharge housing whereby the fan blower can be easily accessed by just losing two screws on the unit to provides a flexible, faster and easier way to clean up the fan blower and ionizer. Maintenance is easy for electrical components, piping and wiring as these are all easily accessible by merely removing front plastic panel.

High Efficiency Heat Exchanger

The compact design of the 3-fold structure heat exchanger provides a large surface area for better and efficient heat exchange. The unique Hydrophilic slit fin has greatly improved the air flow and the contact surfaces with the air thus to boost the cooling capacity.



Wireless Remote Controller

- The compact LCD transmitter is able to operate the air conditioner unit within the distance of 9 meters.
- Fan motor speed can be set at low / medium / high 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.
- Turbo mode function is available to enables the required set temperature to be achieved in a short time
- Personalized Setting allows user to preset and store 2 groups of personal settings (including timer setting) in the handset.
- Auto random restart is a function whereby when there is power failure occurred during operation, the unit will automatically restart as the last setting condition once the power is resumed.

Rotary Compressors

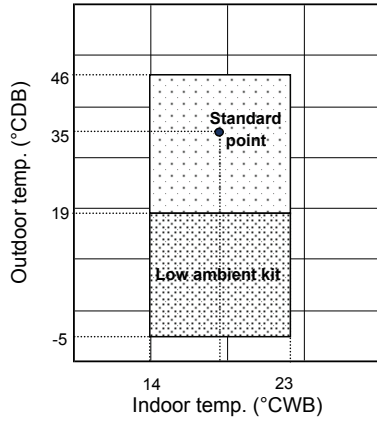
The ever popular rotary compressor is more energy efficient and has a higher output to weight ratio.

Application Information

Operating Range

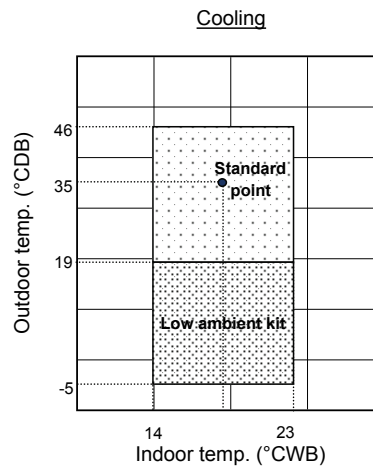
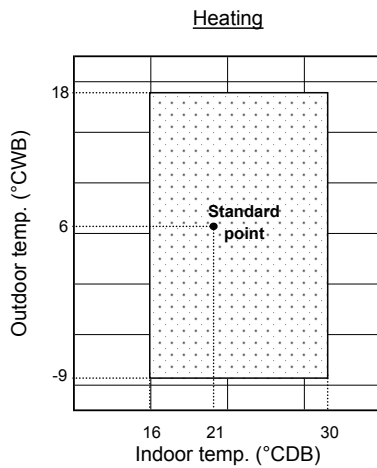
Ensure the operating temperature is in allowable range.

Cooling only



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

Heatpump



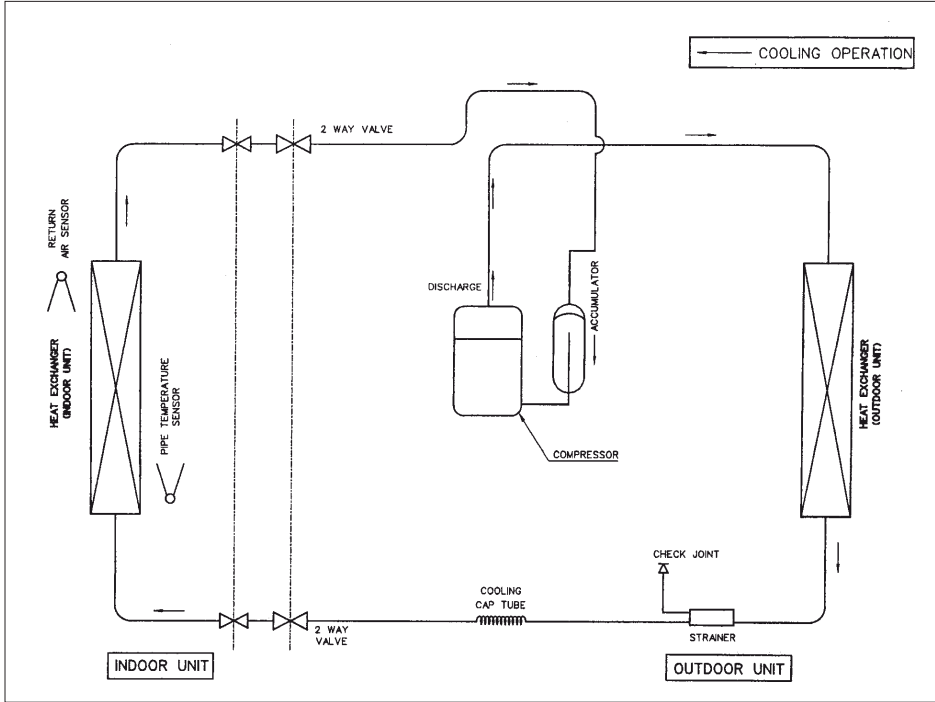
Note :

- Standard operating range.
- With Low ambient kit. (Optional item)
Please refer to local dealer for unit of this specification.

Refrigerant Circuit Diagram

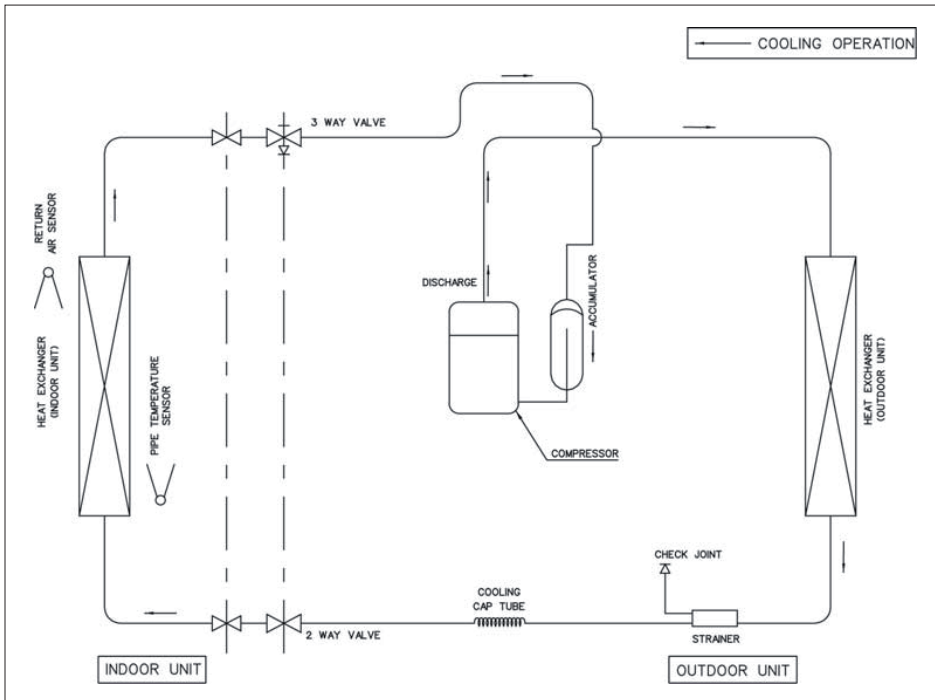
Model: AWM 07G - ALC 07C
AWM 09G - ALC 09C
AWM 10G - ALC 10C
AWM 15G - ALC 15C

A5WM 07G - A5LC 07C
A5WM 09G - A5LC 09C
A5WM 10G - A5LC 10C
A5WM 15G - A5LC 15C



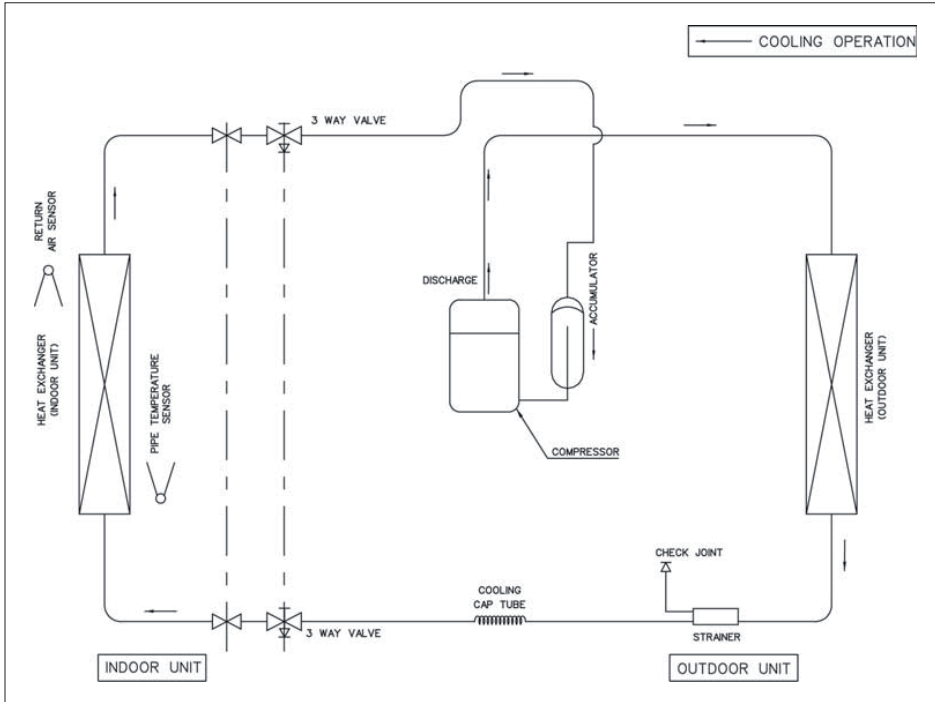
Model: AWM 20G - ALC 18C
AWM 20G - ALC 20C

A5WM 20G - A5LC 20C
A5WM 25G - A5LC 25C

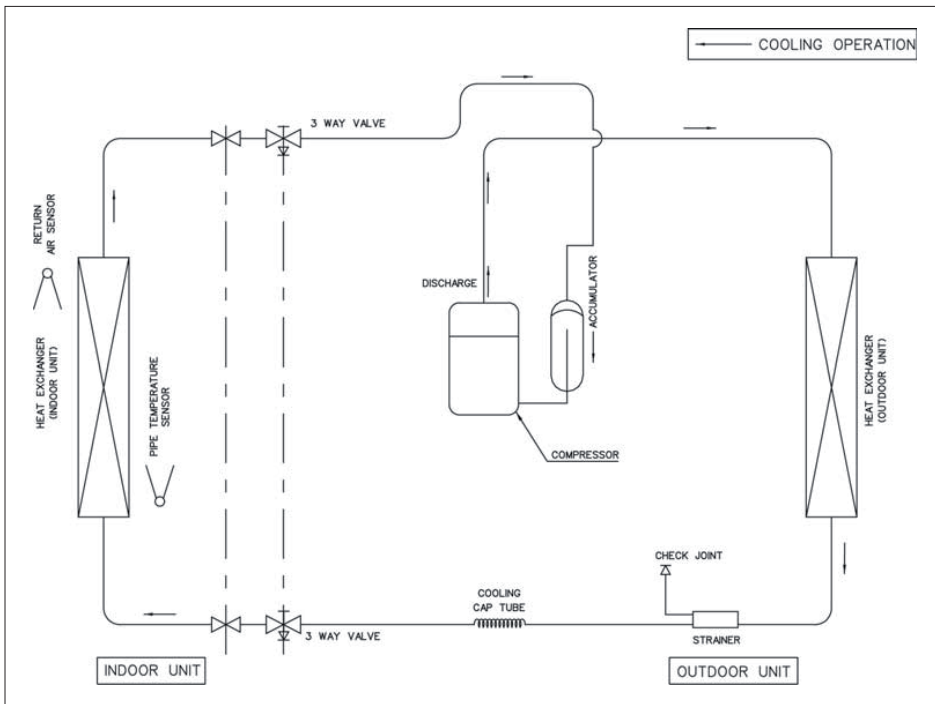


Model: AWM 25G - ALC 25C

A5WM 311 - A5LC 28C

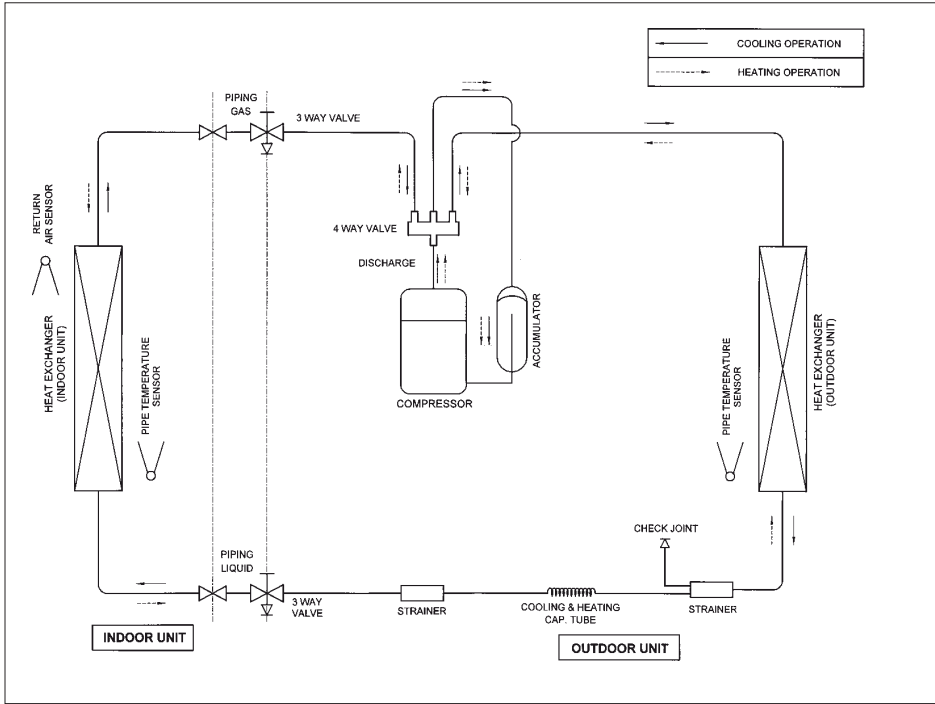


Model: AWM 301 - ALC 28C



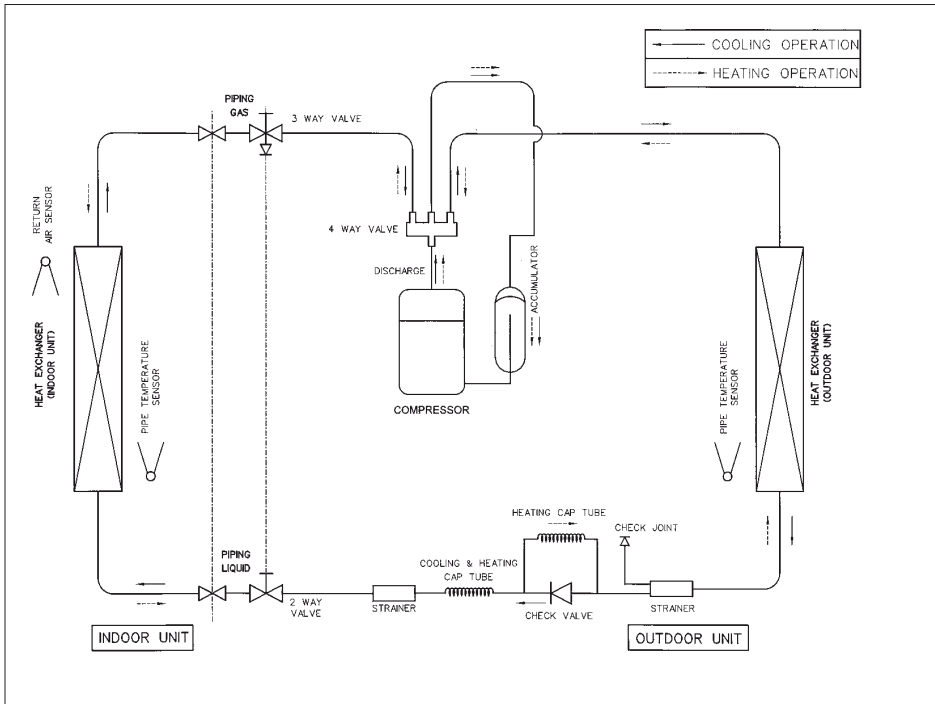
Model: AWM 09GR - ALC 09CR

A5WM 07GR - A5LC 07CR



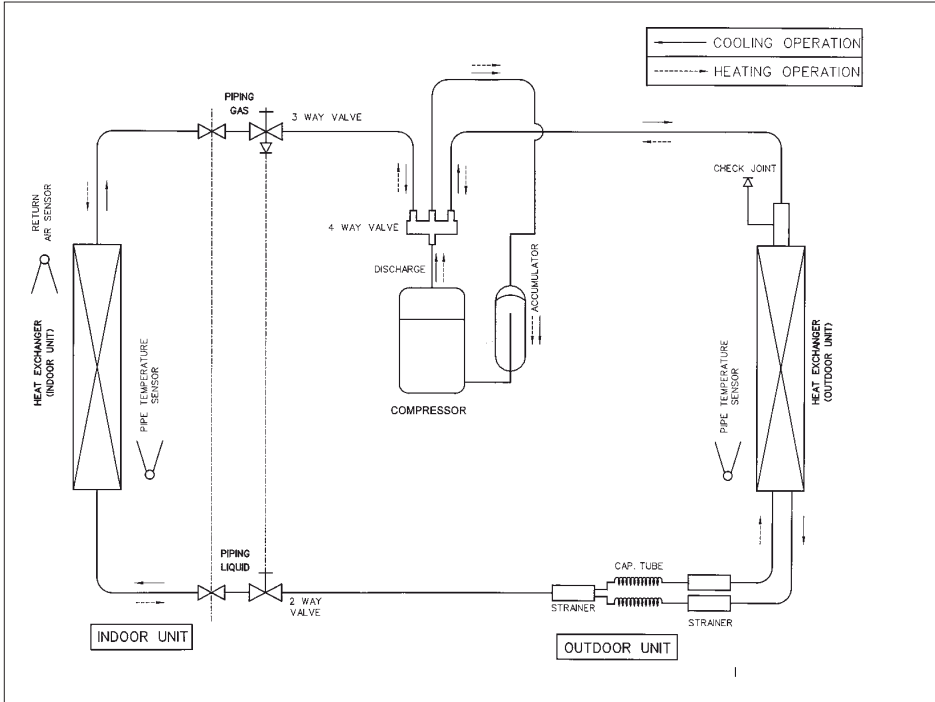
Model: AWM 10GR - ALC 10CR

A5WM 09GR - A5LC 10CR
A5WM 10GR - A5LC 10CR



Model: AWM 15GR - ALC 15CR

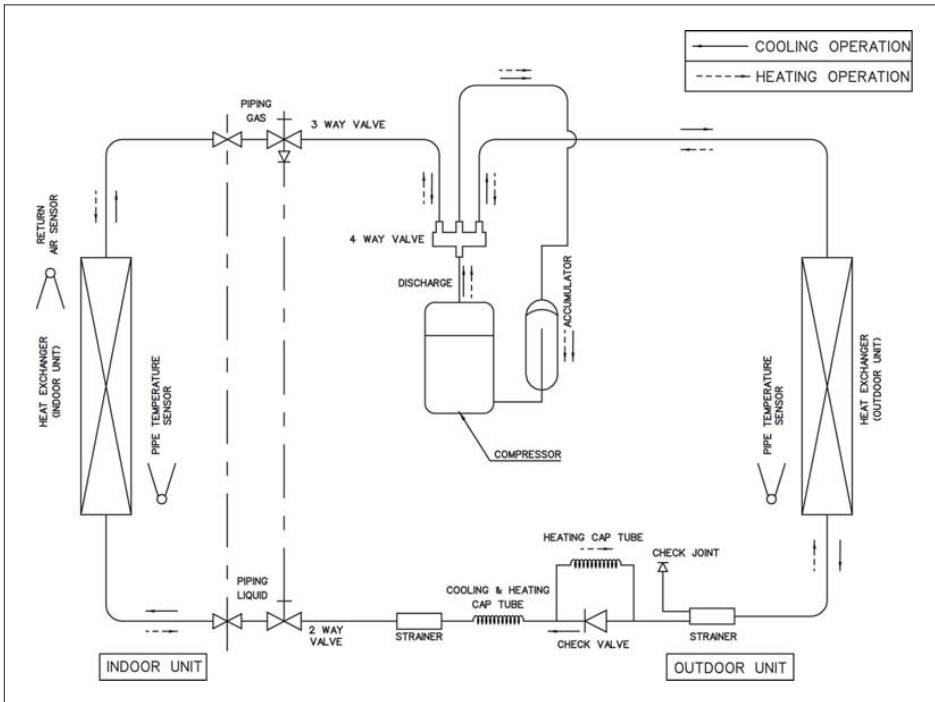
A5WM 15GR - A5LC 15CR



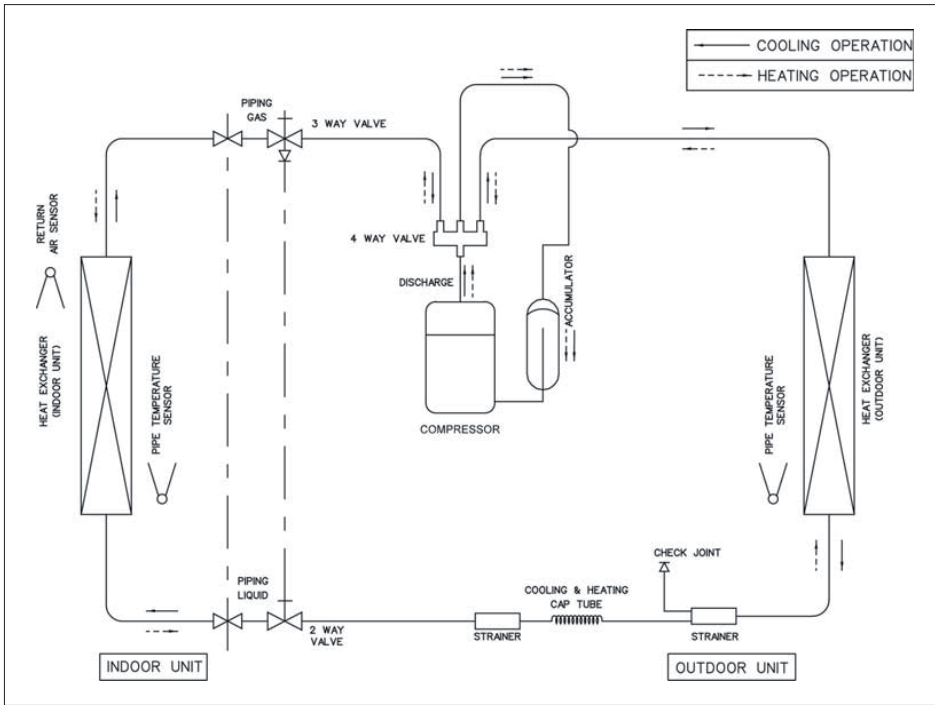
Model: AWM 20GR - ALC 20CR

A5WM 20GR - A5LC 20CR

A5WM 25GR - A5LC 25CR

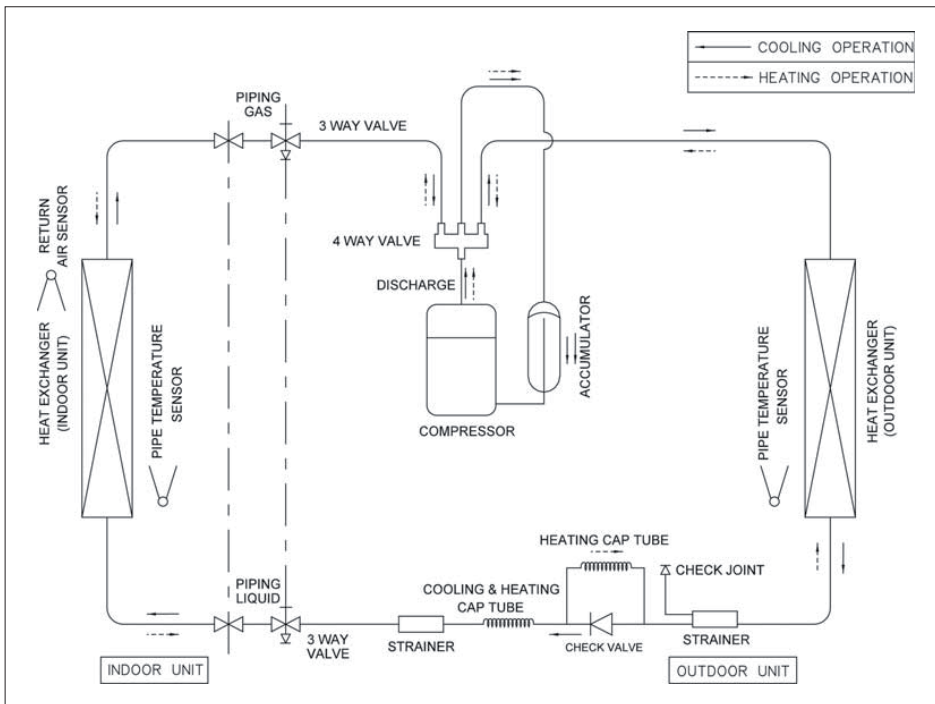


Model: AWM 25GR - ALC 25CR



Model: AWM 301R - ALC 28CR

A5WM 301R - A5LC 28CR



Controller

G18



Operation Guide

1 Transmission Source <ul style="list-style-type: none"> The source where the signal will be transmitted. 	8 Operating Mode <ul style="list-style-type: none"> Press the MODE button to select the type of operating mode. For cooling only unit, the available modes are: COOL (❄️), DRY (💧) and FAN (🌀).
2 Signal Transmission Indication <ul style="list-style-type: none"> Blink to confirm that the last setting has been transmitted to the unit. 	
3 Temperature Setting <ul style="list-style-type: none"> 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). 	9 Fan Speed Selection <ul style="list-style-type: none"> 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.
4 Personalize Setting <ul style="list-style-type: none"> Press 🎯 and hold for 3s, then 🎯 will blink. Press again to cycle between 🎯 and 🎯. Set the desired setting, then leave the hand set for 4s without pressing any key and it will save the setting into the programme. Press 🎯 once to activate the P1 setting, press again to cycle between P1 and P2. Press any key to deactivate the personalize setting. 	10 "ON/OFF" Button <ul style="list-style-type: none"> Press one to start the air conditioner unit. Press again to stop the unit.
	11 Timer Cancel <ul style="list-style-type: none"> Press the TIMER CANCEL button to cancel the on timer setting.
5 Automatic Air Swing (optional) <ul style="list-style-type: none"> 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. 	12 OFF Timer Setting <ul style="list-style-type: none"> Press the OFF TIMER button will activate the off timer function. Set the desired off time by pressing the OFF TIMER button continuously.
6 Silent Function <ul style="list-style-type: none"> Press 🤫 for quiet operation. Fan speed turn to minimum speed. Press again to deactivate the function. 	13 ON Timer Setting <ul style="list-style-type: none"> Press the ON TIMER button will activate the on timer function. Set the desired on time by pressing the ON TIMER button continuously. If the timer is set to 7.30am, the air conditioner will turn on at 7.30am sharp.
7 Sleep Mode Setting <ul style="list-style-type: none"> Press the SLEEP button will activate the sleep mode function. This function is available under COOL, HEAT and AUTO mode. When the unit is operating under cooling mode, the set temperature is increased by 0.5°C after 30 minutes, 1°C after an hour, and 2°C after 2 hours. When the unit is operating under heating mode, the set temperature is decreased by 1°C after 30 minutes, 2°C after an hour, and 3°C after 2 hours. 	14 Turbo Function <ul style="list-style-type: none"> Press 🌀 for fast cooling. Fan speed turn to maximum speed. Press again to deactivate the function.
	15 Clock Time Setting <ul style="list-style-type: none"> Press 🕒 and hold to set the clock time.

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

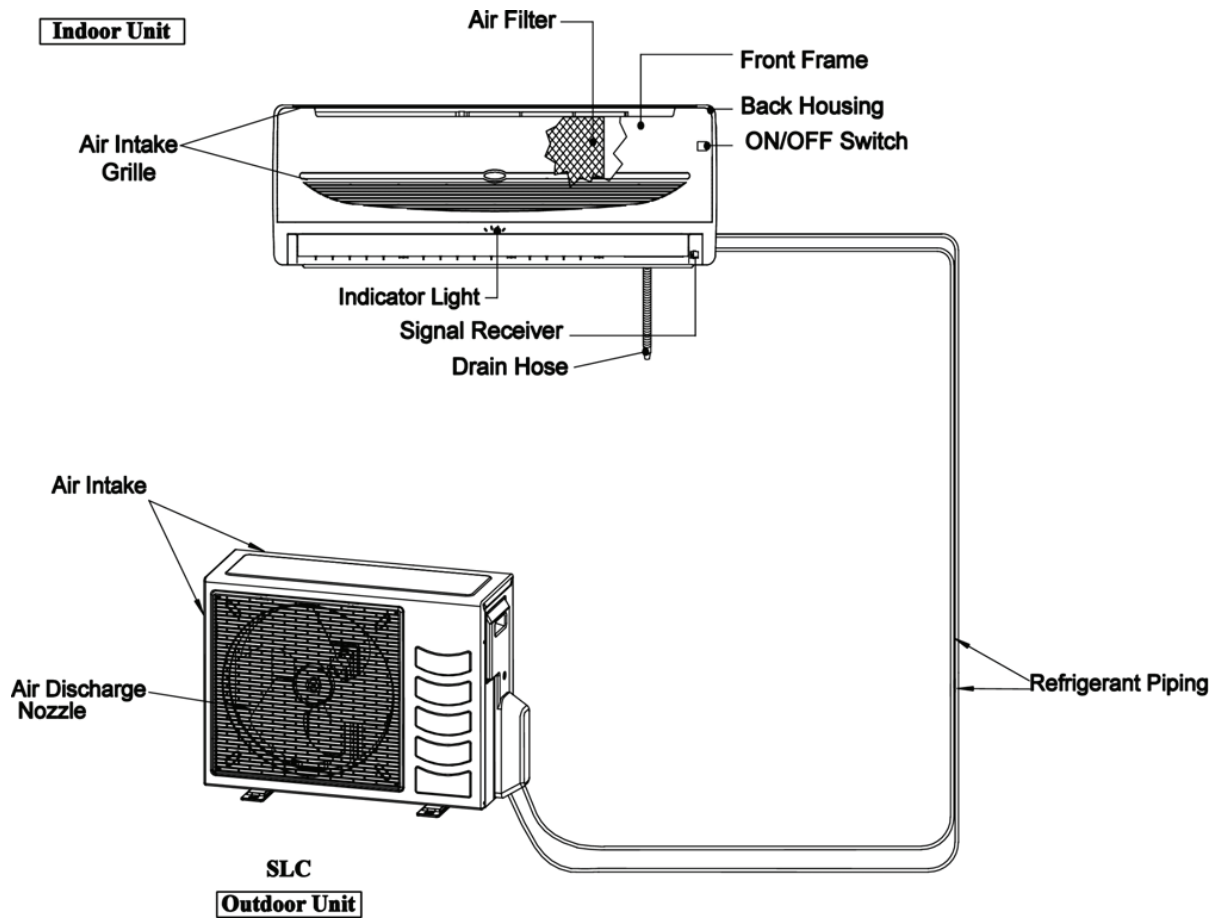
Your air conditioning product is marked with this symbol. This means that electrical and electronic products shall not be mixed with unsorted household waste.

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**

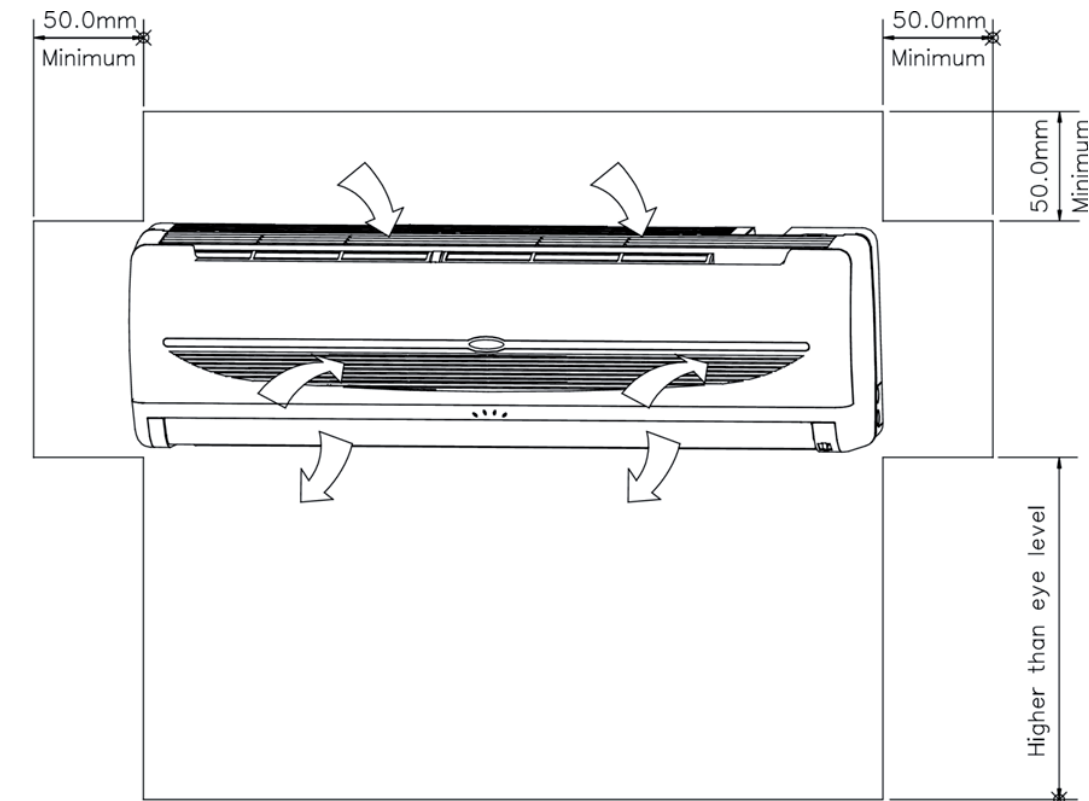
- Before installing the unit, ensure that the power supply matches the power requirement of the air conditioner.

Selection of Location and Space

Indoor Unit

Install the fan coil (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. (See fig. 1) - 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 slid in or out easily.
- Where there is no danger of flammable gases.
- Where there is no direct sunlight on unit.
- Also to take into consideration a place for the installation of the Wireless LCD Remote Controller.



 MAINTENANCE & SERVICING SPACE.

 AIR FLOW DIRECTION.

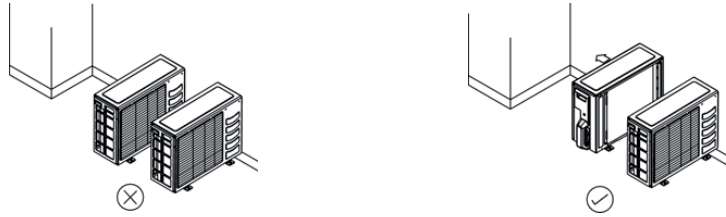
Caution

- Do not install unit near the door way because excessive fresh air may cause panel condensation on the unit.

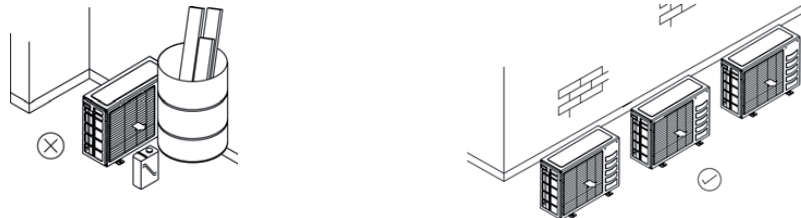
Outdoor Unit

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

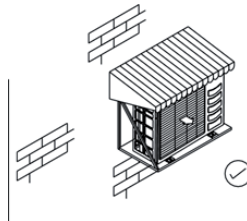
- Install the condensing (outdoor) unit in a way such that hot air distributed by the outdoor condensing unit cannot be drawn in again (as in the case of short circuit of hot discharge air). Allow sufficient space for maintenance around the unit.



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



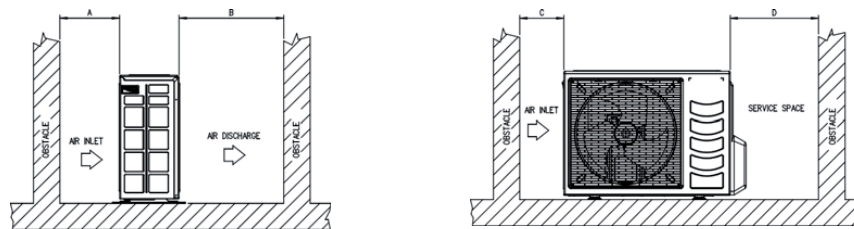
- The location must be well ventilated, so that the unit can draw in and distribute plenty of air thus lowering the condensing temperature.
- A place capable of bearing the weight of the outdoor unit and isolating noise and vibration.
- A place protected from direct sunlight. Otherwise use an awning for protection, if necessary.



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

Installation Clearance

- Outdoor units must be installed such that there is no short circuit of the hot discharge air or obstruction to smooth airflow. Select the coolest possible place where intake air should not be hotter than the outside temperature (max. 45°C)



ALL MODELS	A	B	C	D
Minimum Distance	300 mm	1000 mm	300 mm	500 mm

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

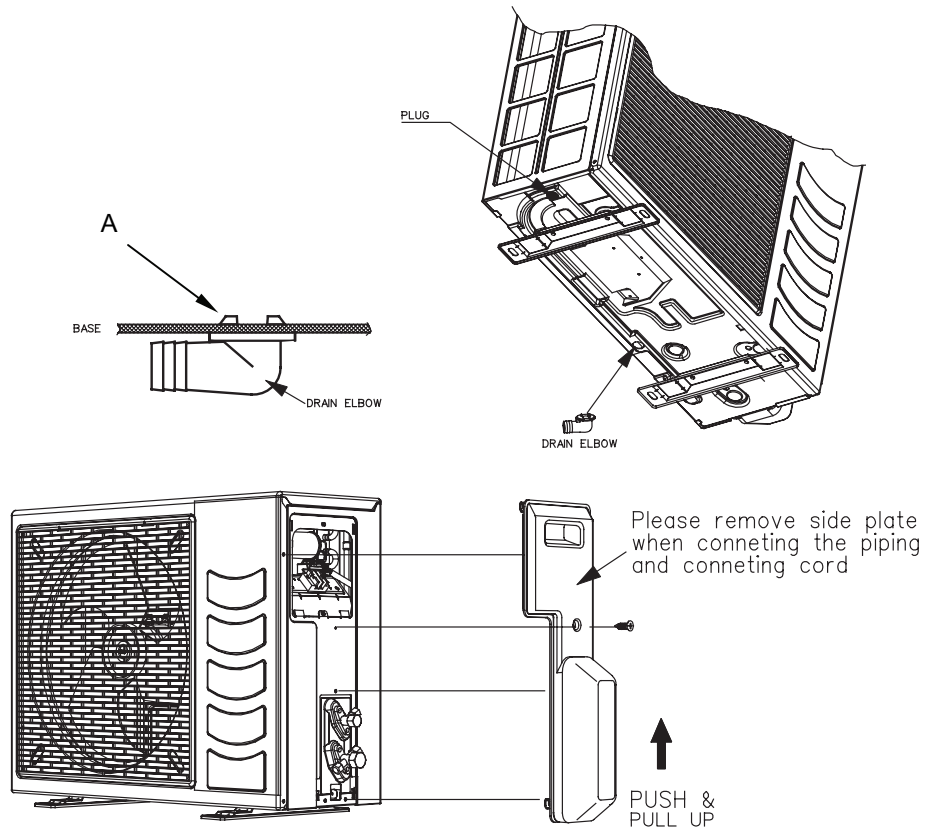
⚠ Caution

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

Installation of Outdoor Unit

Condensed Water Disposal of Outdoor Unit (Heat Pump Unit Only)

- There are 2 holes on the base of outdoor unit for condensed water to flow out. Insert the drain elbow to one of the holes.
- To install the drain elbow, first insert one portion of the hook to the base (portion A), then pull the drain elbow in the direction shown by the arrow while inserting the other portion to the base. After installation, check to ensure that the drain elbow clings to the base firmly.
- If the unit is installed in a snowy and chilly area, condensed water may freeze in the base. In such case, please remove the plug at the bottom of the unit to smooth the drainage.



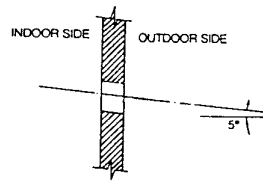
Drilling Holes and Mounting Installation Plate

⚠ Caution

- Please check the unit weight for each model. Always ensure that the wall is sufficiently strong to withstand the weight. If not, it is necessary to reinforce the wall with plate, beams or pillars.
- The unit cannot be directly fixed onto the wall or the likes. In all cases, the installation plate provided **MUST** be used.

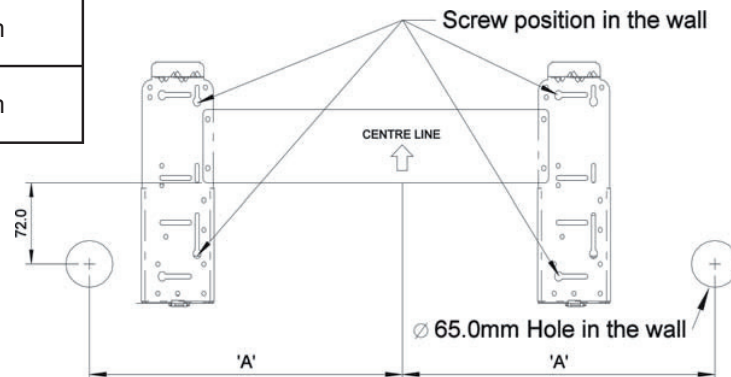
- Paste the installation plan provided on the desired location on the wall and mark the holes location accordingly.
- Ensure that the minimum maintenance and servicing space at the top, left and right side of the unit is reserved. Ensure also the levelness of the installation plate.
- Drill the screw mounting holes (minimum 4 screws are required).
- Drill the pipe hole at the location as per plan. (This is only applicable for rear piping outlet installation).

Note: The hole should be drilled slightly lower at outdoor side as per figure below:--



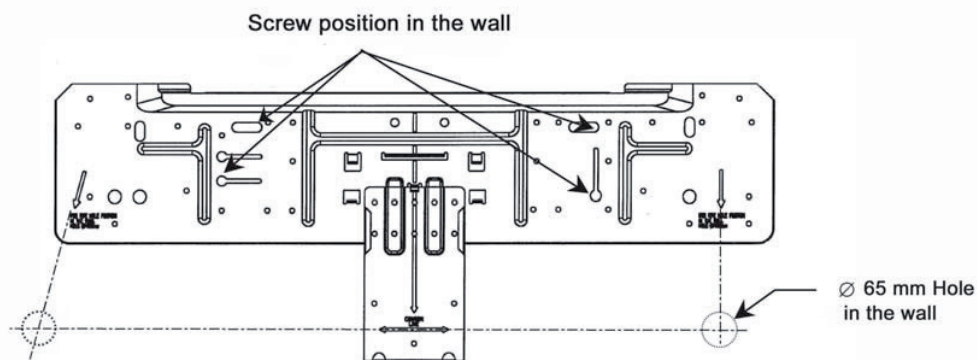
- Fix the installation plate firmly to wall, without tilting to left or right. Use a plumb line, if available.

Model	DIMENSION "A"
AWM 07/09 G/GR	350.0 mm
A5WM 07/09 G/GR	
AWM 10/15 G/GR	400.0 mm
A5WM 10/15 G/GR	

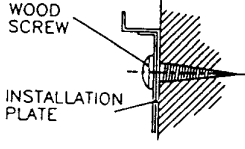
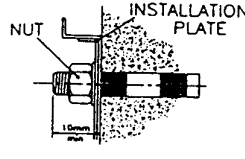
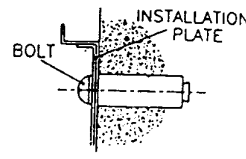


MODEL

AWM 20 / 25 G/GR, A5WM 20 / 25 G/GR, AWM 30F / 30FR, A5WM 31F / 30FR

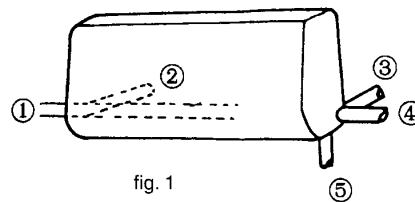


- Fixing method:-

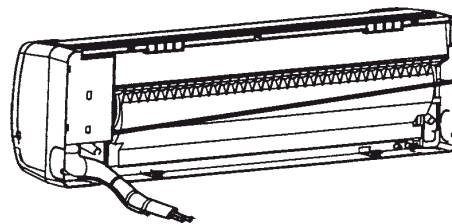
WOODENFRAME WALL	REINFORCED CONCRETE BUILDING	
	NUT ANCHOR	BOLT ANCHOR
 <p>WOOD SCREW INSTALLATION PLATE</p>	 <p>NUT INSTALLATION PLATE 10mm min</p>	 <p>BOLT INSTALLATION PLATE</p>

Indoor Unit Preparation

- The refrigerant piping can be routed to the unit in 5direction, by using the cut outs in the unit casing. (See fig. 1)

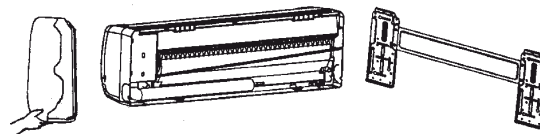


- Carefully bend the pipes to the required position toalign with the hole. For right hand and rear side drawout, hold the bottom of the piping and fix directionbefore shaping it to the desired position (See fig. 2).The condensation drain hose should be taped to thepipes with vinyl tape. The electrical cable can also betaped to the pipes.



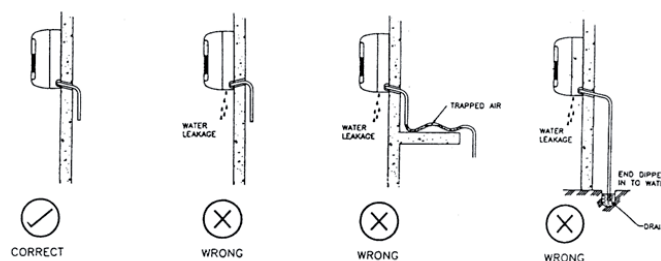
Mounting Indoor Unit

Hook the indoor unit onto the upper portion of installation plate. (Engage the 2 hooks of rear top of the indoor unit withthe upper edge of the installation plate). Ensure the hooks are properly seated on the installation plate by moving inleft and right.



Water Drainage Piping

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



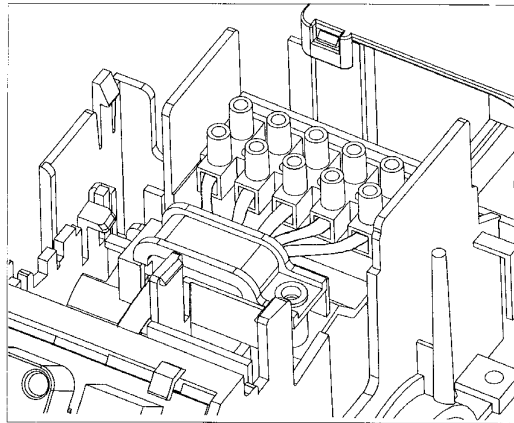
Wiring

Electrical Connection

- Wiring regulation on wire diameters differ from country to country. Please refer to your LOCAL ELECTRICALCODES for field wiring rules. Be sure that installation comply with such rules and regulations.

General Precautions

- Ensure that the rated voltage of the unit corresponds to the name plate before carrying out proper wiring according to the wiring diagram.
- Provide a power outlet to be used exclusively for each unit. A power supply disconnect and a circuit breaker for over current protection should be provided in the exclusive line.
- The unit must be GROUNDED to prevent possible hazards due to insulation failures.
- All wiring must be firmly connected.
- All wiring must not touch the hot refrigerant piping, compressor or any moving parts of fan motors.
- The field wires from the indoor unit must be clamped on the wire clamp as per shown in the figure.



Refrigerant Piping

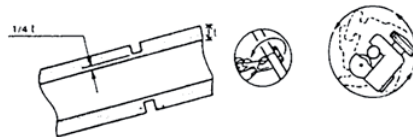
Maximum pipe Length and Maximum Number of Bends

Always choose the shortest path for refrigerant piping and follow the recommendations as tabulated below:

Data	Model						
	AWM/A5WM 07G/GR	AWM 09G/GR	AWM/A5WM 10G/GR	AWM/A5WM 15G/GR	AWM/A5WM 20G/GR	AWM/A5WM 25G/GR	A5WM 311/301R AWM 301/R
Max. Length, L (m)	12	12	12	12	15	15	15
Max. Elevation, H (m)	5	5	5	5	8	8	8
Max. No. of Bends	10	10	10	10	10	10	10

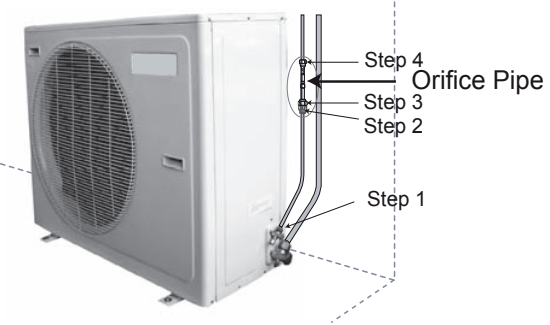
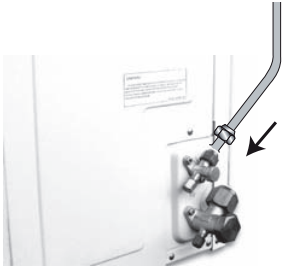
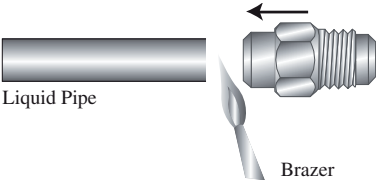
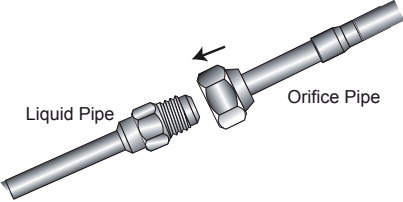
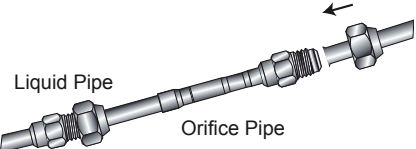
Flare Connection

- Cut the pipe stages by stages, advancing the blade of pipe cutter slowly.



- Remove burr with the burr remover. Hold the flaring end down to prevent burrs from dropping inside pipe.

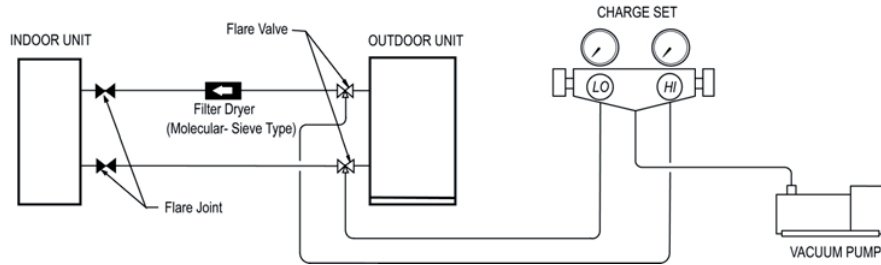
ii) Outdoor Installation Space Is Limited

 <p>Step 4 Orifice Pipe Step 3 Step 2 Step 1</p>	<ul style="list-style-type: none"> • If the orifice pipe can not be connected directly to the liquid valve due to limitation space, it can be connected between the liquid pipes.
	<ul style="list-style-type: none"> • Flare the liquid pipe and connect it to the liquid valve.
 <p>Liquid Pipe Brazer</p>	<ul style="list-style-type: none"> • Braze an addition "Male" joint to the liquid pipe.
 <p>Liquid Pipe Orifice Pipe</p>	<ul style="list-style-type: none"> • Connect the "Female" nut of the orifice pipe to the "Male" joint.
 <p>Liquid Pipe Orifice Pipe</p>	<ul style="list-style-type: none"> • Flare another liquid pipe and connect it to the "Male" joint of the orifice pipe.

VACUUMING AND CHARGING

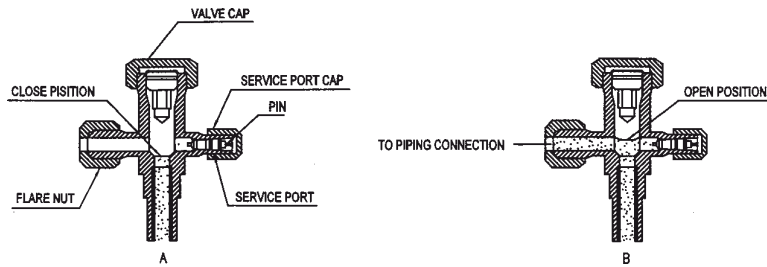
- The precharged outdoor unit does not need any vacuuming or charging. However once it is connected, the connecting pipe line and the indoor need to be vacuumed before releasing the R22/R407C/R410A from the outdoor unit.

- 1) Open the service port core cap.
- 2) Connect pressure gauge to the service port.
- 3) Connect the line to vacuum pump. Open the charging manifold valve and turn the pump on. Vacuum to -0.1 MPa (-760 mmHg) or lower. (Evacuation time varies by the pump but averagely in 1 hour).



Note : R407C – Fix filter dryer
 R22 - Nil
 R410A - Nil

- 4) After evacuation, unscrew the spindle (diagram B) for the gas to run to indoor unit.



4) Decision by low side pressure. Turn compressor on for 10 or 15 min.

Model	Standard Condition		Heavy Load Condition	
	Indoor 27°C / Outdoor 35°C		Indoor 32°C / Outdoor 43°C	
	kg/cm ²	psig	kg/cm ²	psig
AWM 07G	5.2 ~ 5.7	74.3 ~ 81.0	5.7 ~ 6.2	81.9 ~ 89.1
AWM 09G	4.7 ~ 5.5	66.6 ~ 78.6	5.0 ~ 5.8	71.2 ~ 83.1
AWM 10G	4.9 ~ 5.7	70.6 ~ 81.8	5.4 ~ 6.1	76.5 ~ 86.6
AWM 15G	4.7 ~ 5.2	67.6 ~ 74.7	5.2 ~ 5.6	74.0 ~ 80.4
AWM 20G	4.6 ~ 4.8	66 ~ 69	4.9 ~ 5.2	70 ~ 74
AWM 25G	4.1 ~ 4.7	59 ~ 67	4.7 ~ 5.1	67 ~ 73
AWM 301	4.0 ~ 4.8	56.9 ~ 68.3	4.5 ~ 5.0	64.0 ~ 71.1
AWM 07GR	5.2 ~ 5.8	74.8 ~ 82.3	5.6 ~ 6.1	79.3 ~ 87.7
AWM 09GR	4.8 ~ 5.7	68.9 ~ 81.4	5.2 ~ 5.9	73.7 ~ 84.8
AWM 10GR	4.9 ~ 5.9	70.5 ~ 83.7	5.4 ~ 6.3	76.5 ~ 90.7
AWM 15GR	4.9 ~ 6.3	69.4 ~ 89.3	5.0 ~ 6.6	71.7 ~ 93.8
AWM 20GR	4.6 ~ 5.0	66 ~ 72	4.9 ~ 5.4	70 ~ 77
AWM 25GR	4.2 ~ 4.8	60 ~ 68	4.7 ~ 5.1	67 ~ 73
AWM 301R	4.0 ~ 4.8	56.9 ~ 68.3	4.5 ~ 5.0	64.0 ~ 71.1
A5WM 07G	9.6 ~ 10.0	137.5 ~ 143.2	10.4 ~ 10.7	148.4 ~ 153.1
A5WM 09G/10G	9.4 ~ 9.9	134.9 ~ 141.8	10.2 ~ 10.6	145.4 ~ 152.1
A5WM 15G	8.9 ~ 9.3	127.3 ~ 132.3	9.3 ~ 9.7	133.1 ~ 138.1
A5WM 20G	8.5 ~ 8.8	121 ~ 125	9.3 ~ 9.6	133 ~ 137
A5WM 25G	8.0 ~ 8.3	114 ~ 118	9.0 ~ 9.2	128 ~ 132
A5WM 311	8.0 ~ 8.6	114 ~ 122	8.7 ~ 9.4	124 ~ 133
A5WM 07GR	9.6 ~ 9.9	136.6 ~ 141.0	10.8 ~ 11.1	154.1 ~ 159.1
A5WM 09GR/10GR	9.4 ~ 9.9	134.4 ~ 141.9	9.9 ~ 10.5	141.4 ~ 149.7
A5WM 15GR	9.0 ~ 9.4	128.0 ~ 134.2	9.4 ~ 9.9	134.6 ~ 142.0
A5WM 20GR	8.3 ~ 8.8	119 ~ 125	8.8 ~ 9.2	125 ~ 132
A5WM 25GR	7.7 ~ 8.3	110 ~ 118	8.4 ~ 9.0	120 ~ 129
A5WM 301R	8.0 ~ 8.6	114 ~ 122	8.7 ~ 9.4	124 ~ 133

Within the value refrigerant cycle normal.

Lower than value refrigerant cycle has some leaks check, amend and top up is necessary. Extremely low (@ zero) needs evacuation and charge.

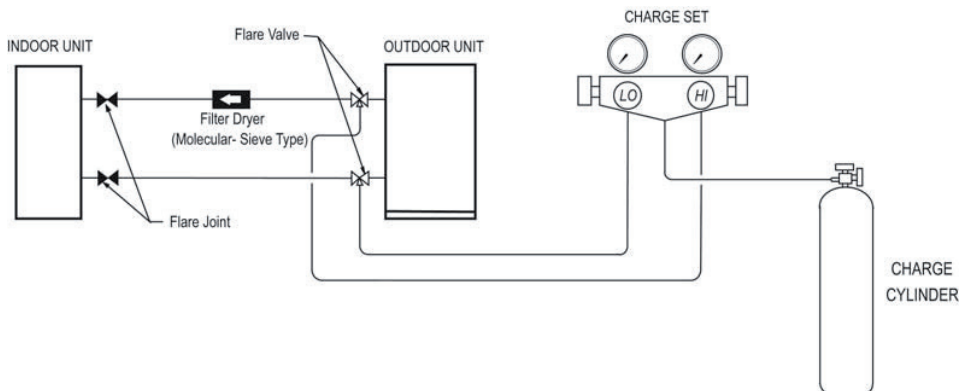
Additional Charge

- The refrigerant gas is charged in the outdoor unit and, if the piping length is 7.6m, additional charge of therefrigerant after vacuuming is not necessary.
- When the piping length is more than 7.6m, please use the table below :

Additional charge in gram.

	10m	12m	15m	25m	35m
R22 MODELS					
AWM 07G / 09G / 10G / 15G	35	65	-	-	-
AWM 20G	35	65	110	-	-
AWM 25G	90	165	280	-	-
AWM 301	90	165	280	650	1030
AWM 07GR / 09GR / 10GR / 15GR	50	90	-	-	-
AWM 20GR	60	110	185	-	-
AWM 25GR	120	220	370	-	-
AWM 301R	120	220	370	870	1370
R410A MODELS					
A5WM 07G / 09G / 10G / 15G	35	60	-	-	-
A5WM 20G	35	60	100	-	-
A5WM 25G	80	150	255	-	-
A5WM 311	80	150	255	600	950
A5WM 07GR / 09GR / 10GR / 15GR	45	80	-	-	-
A5WM 20GR	55	100	165	-	-
A5WM 25GR	110	200	335	-	-
A5WM 301R	110	200	335	790	1250

Diagram shows typical charging method.



⚠ Caution For R410A

- Avoid prolong exposure of an opened compressor, or the internal part of refrigerant piping to moist air. The POE oil in the compressor and piping can absorb moisture from air.

Final Checking

- Ensure that steps 1 to 8 are closely followed.
- Ensure the following, in particular :
 - 1) The unit is mounted solidly and rigidly in position.
 - 2) Piping and connections are leak proof after charging.
 - 3) Proper wiring has been done.
- Trial run
 - 1) Conduct a trial run after water drainage test and gas leakage test.
 - 2) Watch out for the following :-
 - a) Is the electric plug firmly inserted into the socket?
 - b) Is there any abnormal sound from unit?
 - c) Is there any abnormal vibrations with regard to unit itself or pipings?
 - d) Is there smooth drainage of water?
- Check that :
 - 1) Condenser fan is running, with warm air blowing off the condensing unit.
 - 2) Evaporator blower is running and discharging cool air.
 - 3) Suction (Low side) pressure as per recommended.
 - 4) The remote controller incorporate a 3 minute delay in their circuit. Thus, it requires about 3 minutes uponcut off before the outdoor condensing unit can start up.

SPECIAL PRECAUTIONS WHEN DEALING WITH REFRIGERANT R410A UNIT

1) WHAT IS NEW REFRIGERANT R410A?

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.

2) COMPONENTS

Mixture weight composition R32(50%) and R125(50%)

3) CHARACTERISTIC

- R410A liquid and vapor components have different compositions when the fluid evaporates or condenses. Hence, when leak occurs and only vapor leaks out, the composition of the refrigerant mixture left in the system will change and subsequently affect the system performance. DO NOT add new refrigerant to a leaked system. It is recommended that the system should be evacuated thoroughly before recharging with R410A.
- When refrigerant R410A is used, the composition will differ depending on whether it is in gaseous or liquid phase. Hence when charging R410A, ensure that only liquid is being withdrawn from the cylinder or can. This is to make certain that only original composition of R410A is being charged into the system.
- POE oil is used as lubricant for R410A compressor, which is different from the mineral oil used for R22 compressor. Extra precaution must be taken not to expose the R410A system too long to moist air.

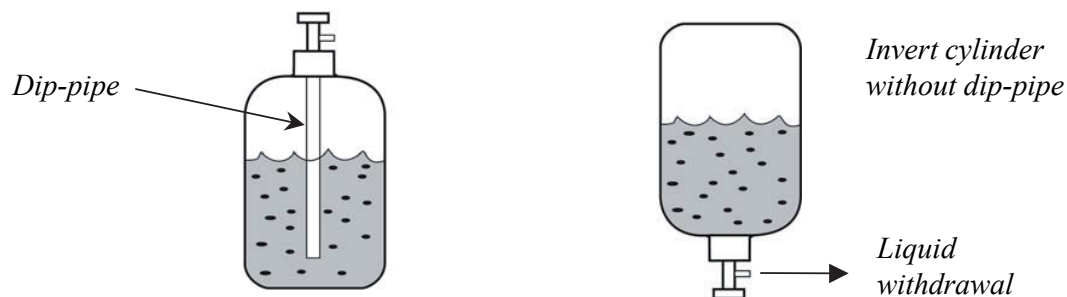
4) CHECK LIST BEFORE INSTALLATION/SERVICING

- Tubing
Refrigerant R410A is more easily affected by dust or moisture compared with R22, make sure to temporarily cover the ends of the tubing prior to installation
- Compressor oil
No additional charge of compressor oil is permitted.
- Refrigerant
No other refrigerant other than R410A
- Tools (size of service port is different from R22 system)
Tools specifically for R410A only (must not be used for R22 or other refrigerant)
 - i) Manifold gauge and charging hose
 - ii) Gas leak detector
 - iii) Refrigerant cylinder/charging cylinder (w/ vacuum pump c/w adapter)
 - v) Flare tools
 - vi) Refrigerant recovery machine

5) HANDLING AND INSTALLATION GUIDELINES

Like R22 system, the handling and installation of R410A system are closely similar. All precautionary measures; such as ensuring no moisture, no dirt or chips in the system, clean brazing using nitrogen, and thorough leak check and vacuuming are equally important requirements. However, due to its hydroscopic POE oil, additional precautions must be taken to ensure optimum and trouble free system operation.

- a) During installation or servicing, avoid prolonged exposure of the internal part of the refrigerant system to moist air. Residual POE oil in the piping and components can absorb moisture from the air.
- b) Ensure that the compressor is not exposed to open air for more than the recommended time specified by its manufacturer (typically less than 10 minutes). Remove the seal plugs only when the compressor is about to be brazed.
- c) The system should be thoroughly vacuumed to 1.0 Pa (700 mmHg) or lower. This vacuuming level is more stringent than R22 system so as to ensure no incompressible gas and moisture in the system.
- d) When charging R410A, ensure that only liquid is being withdrawn from the cylinder or can. This is to ensure that only the original composition of R410A is being delivered into the system. The liquid composition can be different from the vapor composition.



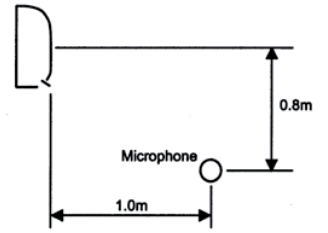
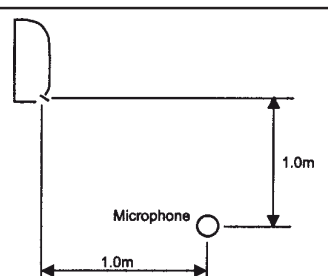
- f) Normally, the R410A cylinder or can is being equipped with a dip pipe for liquid withdrawal. However, if the dip pipe is not available, invert the cylinder or can so as to withdraw liquid from the valve at the bottom.

Sound Data

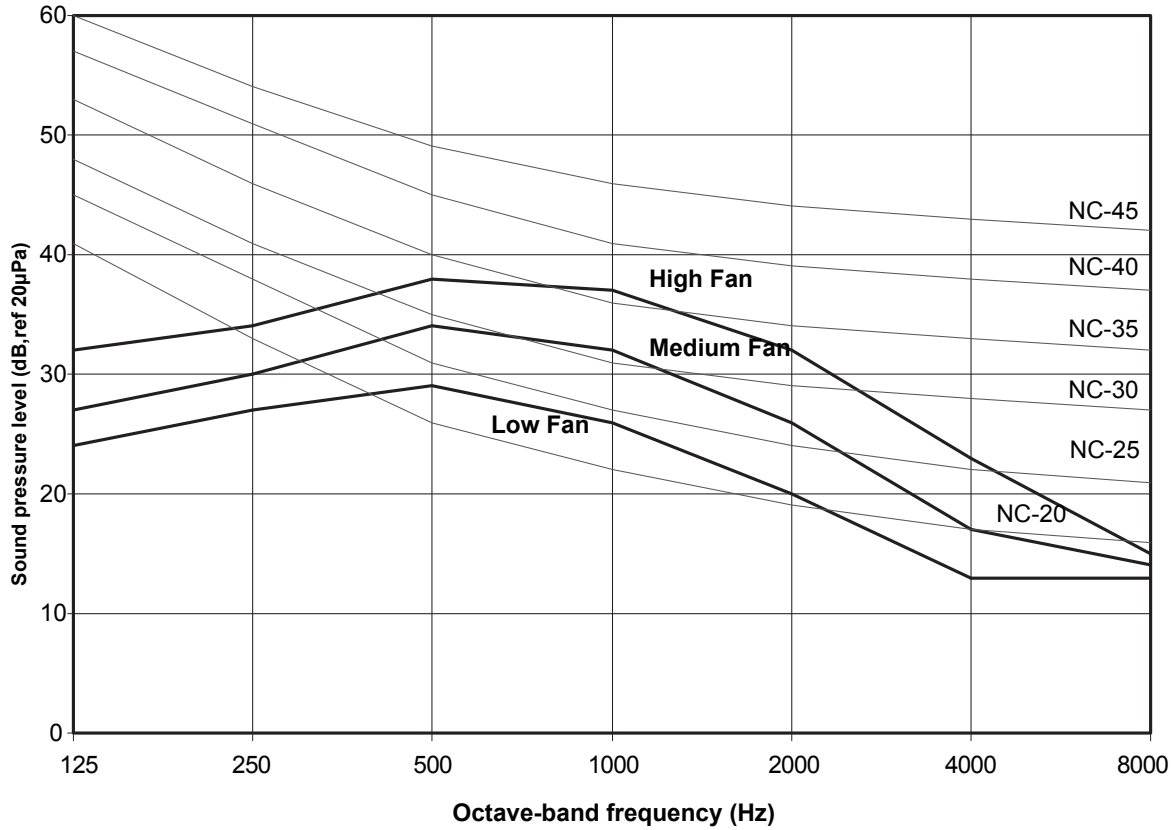
Sound Pressure Level

Model	Speed (RPM)	1/1 Octave Sound Pressure Level (dB, ref 20 μ Pa)							Overall (dBA)	Noise Criteria
		125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz		
AWM 07G AWM 09G/GR A5WM 07G/GR A5WM 09G/GR	High	32	34	38	37	32	23	15	40	36
	Medium	27	30	34	32	26	17	14	35	31
	Low	24	27	29	26	20	13	13	29	24
AWM 10G/GR A5WM 10G/GR	High	28	34	37	36	31	22	13	39	35
	Medium	27	30	33	31	25	17	12	34	30
	Low	24	26	28	25	19	12	11	28	23
AWM 15G/GR A5WM 15G/GR	High	30	35	39	38	33	25	15	42	37
	Medium	28	31	34	33	26	18	13	36	32
	Low	24	26	28	26	20	13	12	29	24
AWM 20G/GR A5WM 20G/GR	High	37	44	42	37	34	25	15	43	37
	Medium	34	40	39	34	30	21	14	40	34
	Low	30	35	35	30	26	18	13	35	30
AWM 25G/GR A5WM 25G/GR	High	41	48	47	43	40	32	23	49	43
	Medium	39	44	43	39	35	28	20	44	38
	Low	37	41	40	36	32	25	19	42	35
AWM 301/301R A5WM 311/301R	High	42	46	45	44	41	35	28	49	43
	Medium	40	45	44	43	35	33	27	47	42
	Low	37	43	43	40	35	30	26	45	39

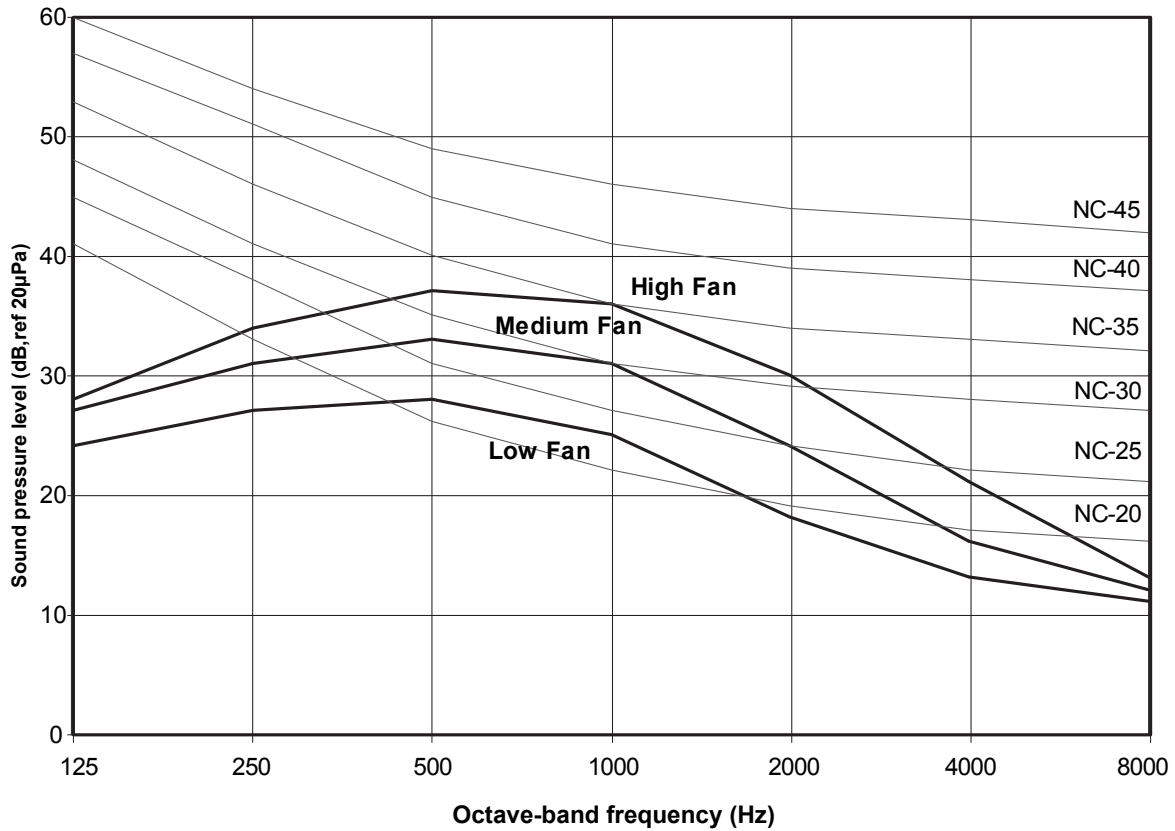
Microphone position - A5WM/AWM-G/GR : 1m in front and 0.8m below the vertical centre line of the unit. (JIS C 9612)
 - A5WM/AWM 30F/FR : 1m in front and 1m below the vertical centre line of the unit. (JIS B 8615)

Model	Measuring location
AWM 07G AWM 09G/GR AWM 10G/GR AWM 15G/GR A5WM 07G/GR A5WM 09G/GR A5WM 10G/GR A5WM 15G/GR	 <p>Standard : JIS C 9612</p>
A5WM 301/301R A5WM 311/301R	 <p>Standard : JIS B 8615</p>

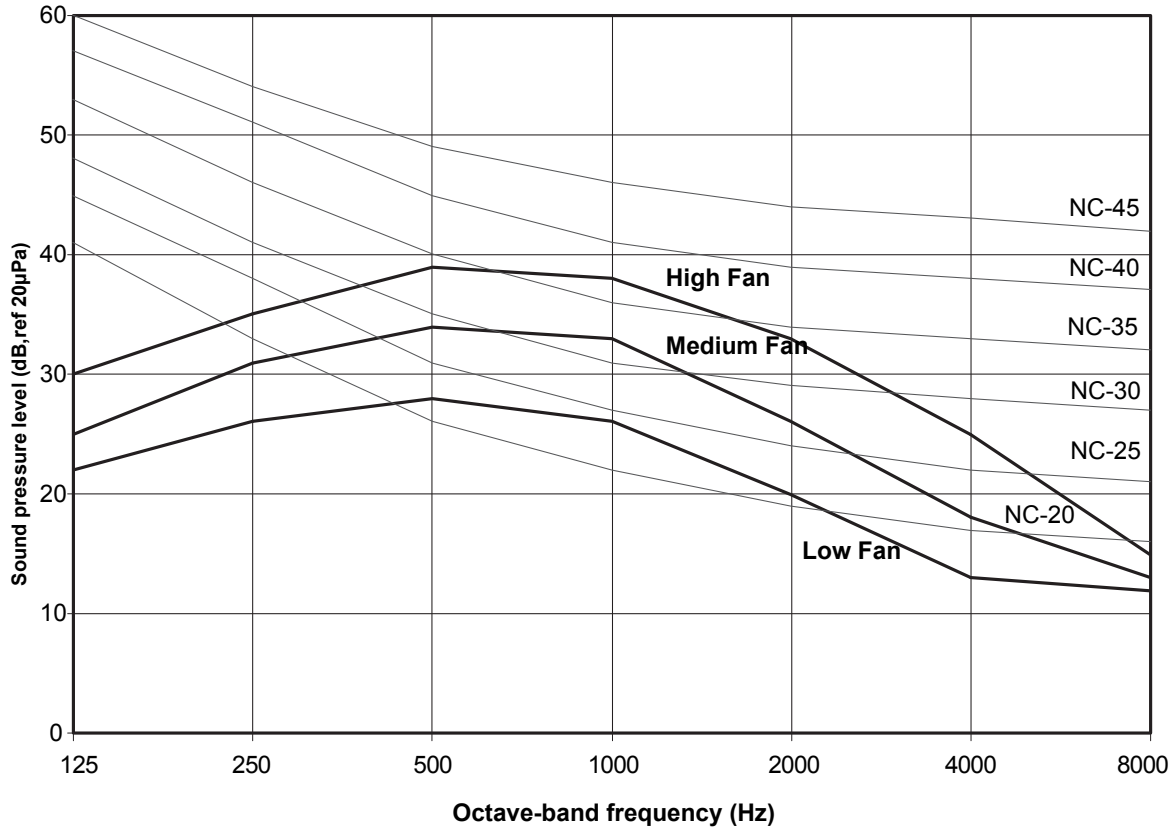
**AWM 07G, 09G/GR , A5WM 07/09G/GR
NC CURVES**



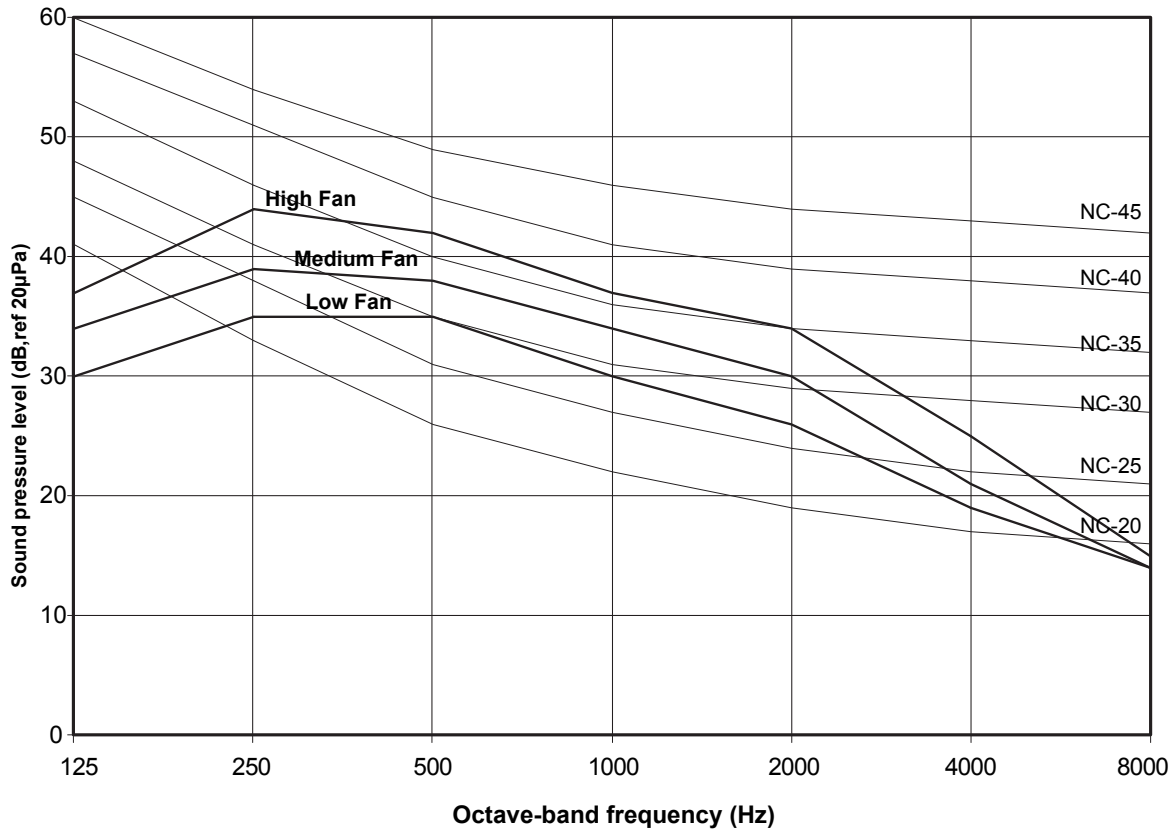
**AWM 10G/GR , A5WM 10G/GR
NC CURVES**



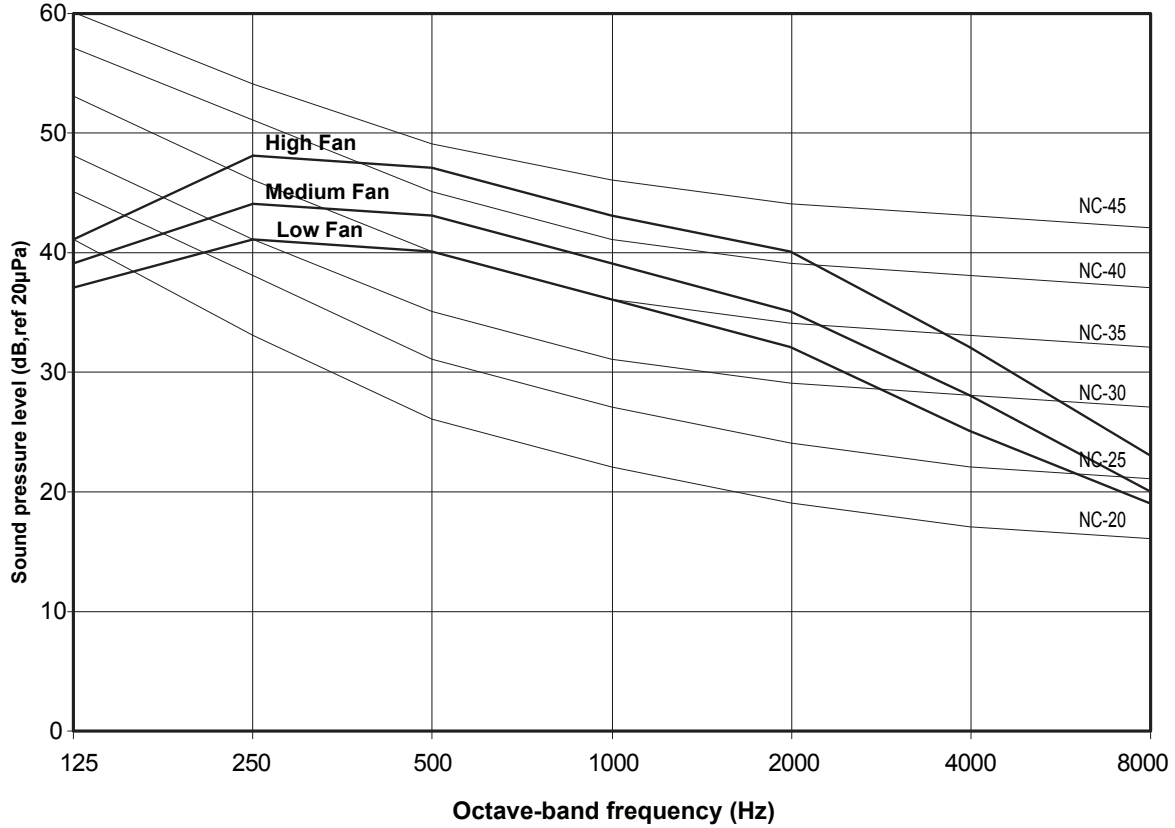
**AWM 15G/GR , A5WM 15G/GR
NC CURVES**



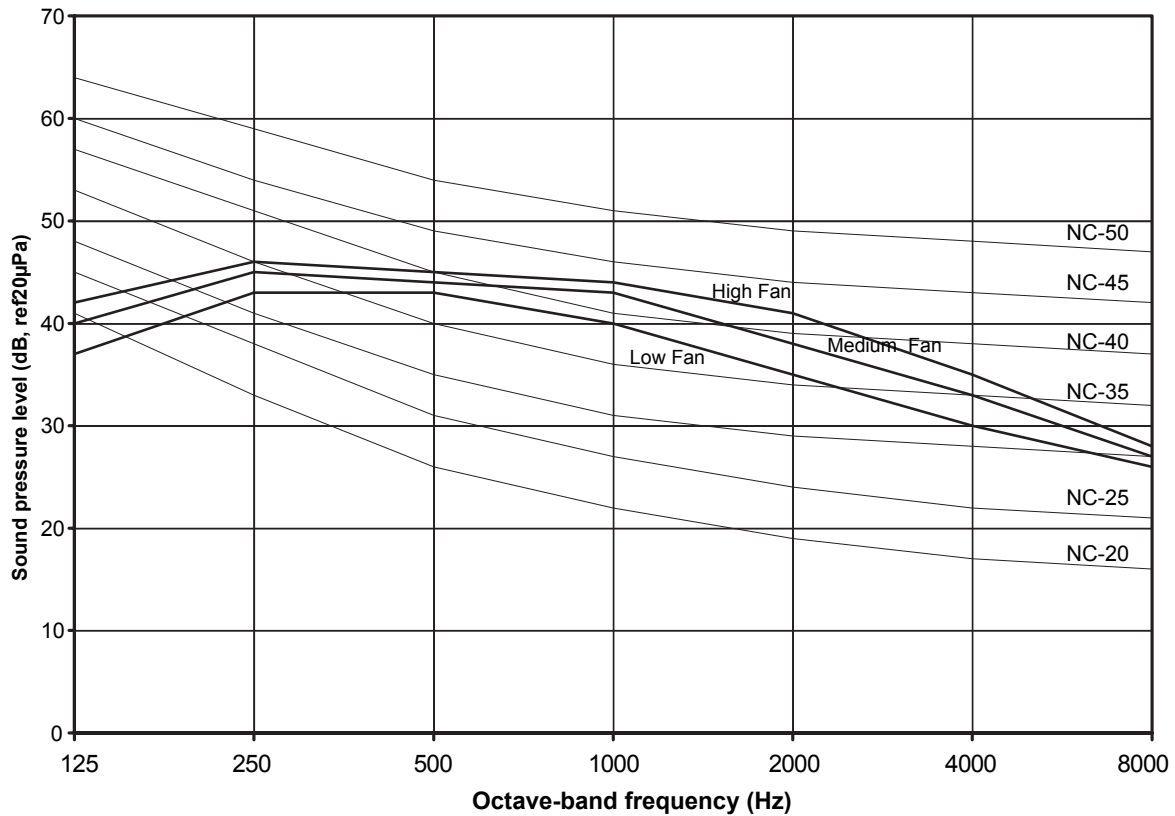
**AWM 20G/GR , A5WM 20G/GR
NC CURVES**



**AWM 25G/GR , A5WM 25G/GR
NC CURVES**



**AWM 301/301R , A5WM 311/301R
NC CURVES**



Engineering & Physical Data

General Data - Cooling Only (R22)

MODEL	INDOOR UNIT			AWM 07G	AWM 09G	
	OUTDOOR UNIT			ALC 07C	ALC 09C	
NOMINAL CAPACITY	Btu/h			7000	9000	
	W			2050	2640	
NOMINAL TOTAL INPUT POWER	W			590	919	
NOMINAL RUNNING CURRENT	A			2.70	4.10	
POWER SOURCE	V/Ph/Hz			220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W			3.47	2.87	
REFRIGERANT TYPE				R22	R22	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE			DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION			LCD REMOTE CONTROL	LCD REMOTE CONTROL
	AIR FLOW	HEIGHT	I/s / CFM	118 / 250	130 / 275	
		MEDIUM	I/s / CFM	104 / 220	106 / 225	
		LOW	I/s / CFM	85 / 180	83 / 175	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	38 / 33 / 28	40 / 35 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	260 / 10.2	
		WIDTH	mm/in	799 / 31.5	799 / 31.5	
		DEPTH	mm/in	198 / 7.8	198 / 7.8	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	337 / 13.3	
		WIDTH	mm/in	857 / 33.7	857 / 33.7	
		DEPTH	mm/in	270 / 10.6	270 / 10.6	
	UNIT WEIGHT		kg/lb	8.5 / 18.7	10 / 22.1	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.6	16 / 0.6	
OUTDOOR UNIT	AIR FLOW		I/s / CFM	321 / 680	307 / 650	
	SOUND PRESSURE LEVEL		dBA	45	46	
	UNIT DIMENSION	HEIGHT	mm/in	495 / 19.5	495 / 19.5	
		WIDTH	mm/in	600 / 23.6	600 / 23.6	
		DEPTH	mm/in	245 / 9.7	245 / 9.7	
	PACKING DIMENSION	HEIGHT	mm/in	575 / 22.6	575 / 22.6	
		WIDTH	mm/in	715 / 28.1	715 / 28.1	
		DEPTH	mm/in	330 / 13.0	330 / 13.0	
	UNIT WEIGHT		kg/lb	28 / 61.7	28 / 61.7	
	PIPE CONNECTION	TYPE		FLARE VALVE	FLARE VALVE	
		SIZE	LIQUID	mm/in	6.35 / 1/4	6.35 / 1/4
GAS			mm/in	9.52 / 3/8	9.52 / 3/8	
REFRIGERANT CHARGE		kg/lb	0.50 / 1.10	0.53 / 1.16		

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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:
COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°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 - Cooling Only (R22)

MODEL	INDOOR UNIT			AWM 10G	AWM 15G	
	OUTDOOR UNIT			ALC 10C	ALC 15C	
NOMINAL CAPACITY	Btu/h			9500	12000	
	W			2780	3520	
NOMINAL TOTAL INPUT POWER	W			860	1200	
NOMINAL RUNNING CURRENT	A			3.80	5.40	
POWER SOURCE	V/Ph/Hz			220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W			3.23	2.93	
REFRIGERANT TYPE				R22	R22	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE			DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION			LCD REMOTE CONTROL	LCD REMOTE CONTROL
	AIR FLOW	HEIGHT	I/s / CFM	142 / 300	163 / 345	
		MEDIUM	I/s / CFM	118 / 250	135 / 285	
		LOW	I/s / CFM	94 / 200	104 / 220	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	260 / 10.2	
		WIDTH	mm/in	799 / 31.5	799 / 31.5	
		DEPTH	mm/in	198 / 7.8	198 / 7.8	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	337 / 13.3	
		WIDTH	mm/in	957 / 37.7	957 / 37.7	
		DEPTH	mm/in	270 / 10.6	270 / 10.6	
	UNIT WEIGHT		kg/lb	12 / 26.5	12 / 26.5	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.6	16 / 0.6	
OUTDOOR UNIT	AIR FLOW		I/s / CFM	396 / 840	453 / 960	
	SOUND PRESSURE LEVEL		dBA	46	49	
	UNIT DIMENSION	HEIGHT	mm/in	540 / 21.3	540 / 21.3	
		WIDTH	mm/in	700 / 27.6	700 / 27.6	
		DEPTH	mm/in	250 / 9.8	250 / 9.8	
	PACKING DIMENSION	HEIGHT	mm/in	620 / 24.4	620 / 24.4	
		WIDTH	mm/in	810 / 31.9	810 / 31.9	
		DEPTH	mm/in	330 / 13.0	330 / 13.0	
	UNIT WEIGHT		kg/lb	32 / 70.5	32 / 70.5	
	PIPE CONNECTION	TYPE			FLARE VALVE	FLARE VALVE
		SIZE	LIQUID	mm/in	6.35 / 1/4	6.35 / 1/4
GAS			mm/in	9.52 / 3/8	12.70 / 1/2	
REFRIGERANT CHARGE		kg/lb	0.63 / 1.39	0.60 / 1.33		

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COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°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 - Cooling Only (R22)

MODEL	INDOOR UNIT			AWM 20G	AWM 20G	
	OUTDOOR UNIT			ALC 18C	ALC 20C	
NOMINAL CAPACITY	Btu/h			18000	19000	
	W			5280	5570	
NOMINAL TOTAL INPUT POWER	W			1820	1807	
NOMINAL RUNNING CURRENT	A			8.10	8.00	
POWER SOURCE	V/Ph/Hz			220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W			2.90	3.08	
REFRIGERANT TYPE				R22	R22	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE			DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION			LCD REMOTE CONTROL	LCD REMOTE CONTROL
	AIR FLOW	HEIGHT	I/s / CFM	231 / 490	231 / 490	
		MEDIUM	I/s / CFM	193 / 410	193 / 410	
		LOW	I/s / CFM	160 / 340	160 / 340	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	43 / 40 / 35	43 / 40 / 35	
	UNIT DIMENSION	HEIGHT	mm/in	304 / 12.0	304 / 12.0	
		WIDTH	mm/in	1062 / 41.8	1062 / 41.8	
		DEPTH	mm/in	222 / 8.7	222 / 8.7	
	PACKING DIMENSION	HEIGHT	mm/in	378 / 14.9	378 / 14.9	
		WIDTH	mm/in	1130 / 44.5	1130 / 44.5	
		DEPTH	mm/in	292 / 11.5	292 / 11.5	
	UNIT WEIGHT		kg/lb	16 / 35.3	16 / 35.3	
	CONDENSATE DRAIN SIZE		mm/in	20 / 0.8	20 / 0.8	
OUTDOOR UNIT	AIR FLOW		I/s / CFM	614 / 1300	614 / 1300	
	SOUND PRESSURE LEVEL		dBA	51	51	
	UNIT DIMENSION	HEIGHT	mm/in	654 / 25.7	654 / 25.7	
		WIDTH	mm/in	855 / 33.7	855 / 33.7	
		DEPTH	mm/in	328 / 12.9	328 / 12.9	
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0	710 / 28.0	
		WIDTH	mm/in	990 / 39.0	990 / 39.0	
		DEPTH	mm/in	415 / 16.3	415 / 16.3	
	UNIT WEIGHT		kg/lb	58 / 127.9	59 / 130.1	
	PIPE CONNECTION	TYPE		FLARE VALVE	FLARE VALVE	
		SIZE	LIQUID	mm/in	6.35 / 1/4	6.35 / 1/4
GAS			mm/in	15.88 / 5/8	15.88 / 5/8	
REFRIGERANT CHARGE		kg/lb	0.63 / 1.39	0.60 / 1.33		

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COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°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 - Cooling Only (R22)

MODEL	INDOOR UNIT			AWM 25G	AWM 301	
	OUTDOOR UNIT			ALC 25C	ALC 28C	
NOMINAL CAPACITY	Btu/h			23500	27000	
	W			6890	7913	
NOMINAL TOTAL INPUT POWER	W			2530	2708	
NOMINAL RUNNING CURRENT	A			11.30	13.10	
POWER SOURCE	V/Ph/Hz			220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W			2.72	3.00	
REFRIGERANT TYPE				R22	R22	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE			DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	AUTO LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION			LCD REMOTE CONTROL	LCD REMOTE CONTROL
	AIR FLOW	HEIGHT	I/s / CFM	297 / 630	316 / 670	
		MEDIUM	I/s / CFM	231 / 490	297 / 630	
		LOW	I/s / CFM	208 / 440	236 / 500	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	49 / 44 / 42	49 / 47 / 45	
	UNIT DIMENSION	HEIGHT	mm/in	304 / 12.0	360 / 14.2	
		WIDTH	mm/in	1062 / 41.8	1200 / 47.2	
		DEPTH	mm/in	222 / 8.7	200 / 7.9	
	PACKING DIMENSION	HEIGHT	mm/in	378 / 14.9	420 / 16.5	
		WIDTH	mm/in	1130 / 44.5	1267 / 49.9	
		DEPTH	mm/in	292 / 11.5	260 / 10.2	
	UNIT WEIGHT		kg/lb	16 / 35.3	17 / 37.48	
	CONDENSATE DRAIN SIZE		mm/in	20 / 0.8	20 / 0.8	
OUTDOOR UNIT	AIR FLOW		I/s / CFM	755 / 1600	741 / 1570	
	SOUND PRESSURE LEVEL		dBA	52	54	
	UNIT DIMENSION	HEIGHT	mm/in	756 / 29.8	756 / 29.8	
		WIDTH	mm/in	855 / 33.7	855 / 33.7	
		DEPTH	mm/in	328 / 12.9	328 / 12.9	
	PACKING DIMENSION	HEIGHT	mm/in	810 / 31.9	810 / 31.9	
		WIDTH	mm/in	990 / 39.0	990 / 39.0	
		DEPTH	mm/in	415 / 16.3	415 / 16.3	
	UNIT WEIGHT		kg/lb	62 / 136.7	65 / 143.3	
	PIPE CONNECTION	TYPE		FLARE VALVE	FLARE VALVE	
SIZE		LIQUID	mm/in	9.52 / 3/8	9.52 / 3/8	
		GAS	mm/in	15.88 / 5/8	15.88 / 5/8	
REFRIGERANT CHARGE		kg/lb	1.5 / 3.30	2.10 / 4.63		

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- 3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°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 (R22)

MODEL	INDOOR UNIT		AWM 09GR		AWM 10GR		
	OUTDOOR UNIT		ALC 09CR		ALC 10CR		
NOMINAL COOLING CAPACITY	Btu/h		8800		9500		
	W		2580		2780		
NOMINAL HEATING CAPACITY	Btu/h		8600		9500		
	W		2520		2780		
NOMINAL TOTAL INPUT POWER (COOLING)	W		910		860		
NOMINAL TOTAL INPUT POWER (HEATING)	W		750		750		
NOMINAL RUNNING CURRENT (COOLING)	A		4.00		3.80		
NOMINAL RUNNING CURRENT (HEATING)	A		3.40		3.40		
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50		220 - 240 / 1 / 50		
EER	W/W		2.84		3.23		
COP	W/W		3.36		3.71		
REFRIGERANT TYPE			R22		R22		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE		OUTDOOR CAP. TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	
		OPERATION		LCD REMOTE CONTROL		LCD REMOTE CONTROL	
	AIR FLOW	HEIGHT	l/s / CFM	130 / 275		142 / 300	
		MEDIUM	l/s / CFM	106 / 225		118 / 250	
		LOW	l/s / CFM	83 / 175		94 / 200	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	40 / 35 / 29		39 / 34 / 28	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2		260 / 10.2	
		WIDTH	mm/in	799 / 31.5		899 / 35.4	
		DEPTH	mm/in	198 / 7.8		198 / 7.8	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3		337 / 13.3	
		WIDTH	mm/in	857 / 33.7		957 / 37.7	
		DEPTH	mm/in	270 / 10.6		270 / 10.6	
	UNIT WEIGHT		kg/lb	10 / 22.5		12 / 26.5	
CONDENSATE DRAIN SIZE		mm/in	16 / 0.6		16 / 0.6		
OUTDOOR UNIT	AIR FLOW		l/s / CFM	307 / 650		396 / 840	
	SOUND PRESSURE LEVEL		dBA	46		46	
	UNIT DIMENSION	HEIGHT	mm/in	495 / 19.5		540 / 21.3	
		WIDTH	mm/in	600 / 23.6		700 / 27.6	
		DEPTH	mm/in	245 / 9.7		250 / 9.8	
	PACKING DIMENSION	HEIGHT	mm/in	575 / 22.6		620 / 24.4	
		WIDTH	mm/in	715 / 28.1		810 / 31.9	
		DEPTH	mm/in	330 / 13.0		330 / 13.0	
	UNIT WEIGHT		kg/lb	28 / 61.7		32 / 70.5	
	PIPE CONNECTION	TYPE		FLARE VALVE		FLARE VALVE	
SIZE		LIQUID	mm/in	6.35 / 1/4		6.35 / 1/4	
		GAS	mm/in	9.52 / 3/8		9.52 / 3/8	
REFRIGERANT CHARGE			kg/lb	0.75/1.65		0.88 / 1.94	

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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 (R22)

MODEL	INDOOR UNIT			AWM 15GR	AWM 20GR	
	OUTDOOR UNIT			ALC 15CR	ALC 18CR	
NOMINAL COOLING CAPACITY	Btu/h			12000	18000	
	W			3520	5280	
NOMINAL HEATING CAPACITY	Btu/h			12000	18400	
	W			3520	5390	
NOMINAL TOTAL INPUT POWER (COOLING)	W			1100	1820	
NOMINAL TOTAL INPUT POWER (HEATING)	W			980	1660	
NOMINAL RUNNING CURRENT (COOLING)	A			5.00	8.10	
NOMINAL RUNNING CURRENT (HEATING)	A			4.50	7.40	
POWER SOURCE	V/Ph/Hz			220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W			3.20	2.90	
COP	W/W			3.59	3.25	
REFRIGERANT TYPE				R22	R22	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE			DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION			LCD REMOTE CONTROL	LCD REMOTE CONTROL
	AIR FLOW	HEIGHT	I/s / CFM		163 / 345	231 / 490
		MEDIUM	I/s / CFM		135 / 285	193 / 410
		LOW	I/s / CFM		104 / 220	160 / 340
	SOUND PRESSURE LEVEL (H/M/L)		dBA		42 / 36 / 29	43 / 40 / 35
	UNIT DIMENSION	HEIGHT	mm/in		260 / 10.2	304 / 12.0
		WIDTH	mm/in		799 / 31.5	1062 / 41.8
		DEPTH	mm/in		198 / 7.8	222 / 8.7
	PACKING DIMENSION	HEIGHT	mm/in		337 / 13.3	378 / 14.9
		WIDTH	mm/in		957 / 37.7	1130 / 44.5
		DEPTH	mm/in		270 / 10.6	292 / 11.5
	UNIT WEIGHT		kg/lb		12 / 26.5	16 / 35.3
	CONDENSATE DRAIN SIZE		mm/in		16 / 0.6	20 / 0.8
AIR FLOW		I/s / CFM		453 / 960	614 / 1300	
SOUND PRESSURE LEVEL		dBA		49	51	
UNIT DIMENSION	HEIGHT	mm/in		540 / 21.3	654 / 25.7	
	WIDTH	mm/in		700 / 27.6	855 / 33.7	
	DEPTH	mm/in		250 / 9.8	328 / 12.9	
PACKING DIMENSION	HEIGHT	mm/in		620 / 24.4	710 / 28.0	
	WIDTH	mm/in		810 / 31.9	990 / 39.0	
	DEPTH	mm/in		330 / 13.0	415 / 16.3	
UNIT WEIGHT		kg/lb		32 / 70.5	58 / 127.9	
PIPE CONNECTION	TYPE			FLARE VALVE	FLARE VALVE	
	SIZE	LIQUID	mm/in	6.35 / 1/4	6.35 / 1/4	
		GAS	mm/in	12.7 / 1/2	15.88 / 5/8	
REFRIGERANT CHARGE		kg/lb		0.80 / 1.76	0.85 / 1.88	

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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 (R22)

MODEL	INDOOR UNIT		AWM 20GR	AWM 25GR	
	OUTDOOR UNIT		ALC 20CR	ALC 25CR	
NOMINAL COOLING CAPACITY	Btu/h		19000	23500	
	W		5570	6890	
NOMINAL HEATING CAPACITY	Btu/h		19500	24000	
	W		5720	7030	
NOMINAL TOTAL INPUT POWER (COOLING)	W		1807	2530	
NOMINAL TOTAL INPUT POWER (HEATING)	W		1757	2450	
NOMINAL RUNNING CURRENT (COOLING)	A		8.00	11.30	
NOMINAL RUNNING CURRENT (HEATING)	A		7.80	11.10	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W		3.08	2.72	
COP	W/W		3.26	2.87	
REFRIGERANT TYPE			R22	R22	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION		LCD REMOTE CONTROL	LCD REMOTE CONTROL
	AIR FLOW	HEIGHT	l/s / CFM	231 / 490	297 / 630
		MEDIUM	l/s / CFM	193 / 410	231 / 490
		LOW	l/s / CFM	160 / 340	208 / 440
	SOUND PRESSURE LEVEL (H/M/L)		dBA	43 / 40 / 35	49 / 44 / 42
	UNIT DIMENSION	HEIGHT	mm/in	304 / 12.0	304 / 12.0
		WIDTH	mm/in	1062 / 41.8	1062 / 41.8
		DEPTH	mm/in	222 / 8.7	222 / 8.7
	PACKING DIMENSION	HEIGHT	mm/in	378 / 14.9	378 / 14.9
		WIDTH	mm/in	1130 / 44.5	1130 / 44.5
		DEPTH	mm/in	292 / 11.5	292 / 11.5
	UNIT WEIGHT		kg/lb	16 / 35.3	16 / 35.3
CONDENSATE DRAIN SIZE		mm/in	20 / 0.8	20 / 0.8	
OUTDOOR UNIT	AIR FLOW		l/s / CFM	614 / 1300	755 / 1600
	SOUND PRESSURE LEVEL		dBA	51	52
	UNIT DIMENSION	HEIGHT	mm/in	654 / 25.7	756 / 29.8
		WIDTH	mm/in	855 / 33.7	855 / 33.7
		DEPTH	mm/in	328 / 12.9	328 / 12.9
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0	810 / 31.9
		WIDTH	mm/in	990 / 39.0	990 / 39.0
		DEPTH	mm/in	415 / 16.3	415 / 16.3
	UNIT WEIGHT		kg/lb	59 / 130.1	62 / 136.7
	PIPE CONNECTION	TYPE		FLARE VALVE	
SIZE		LIQUID	mm/in	6.35 / 1/4	9.52 / 3/8
		GAS	mm/in	15.88 / 5/8	15.88 / 5/8
REFRIGERANT CHARGE		kg/lb	1.35 / 2.99	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 (R22)

MODEL		INDOOR UNIT		AWM 301R	
		OUTDOOR UNIT		ALC 28CR	
NOMINAL COOLING CAPACITY			Btu/h	27000	
			W	7913	
NOMINAL HEATING CAPACITY			Btu/h	27000	
			W	7913	
NOMINAL TOTAL INPUT POWER (COOLING)			W	2708	
NOMINAL TOTAL INPUT POWER (HEATING)			W	2273	
NOMINAL RUNNING CURRENT (COOLING)			A	13.20	
NOMINAL RUNNING CURRENT (HEATING)			A	13.30	
POWER SOURCE			V/Ph/Hz	220 - 240 / 1 / 50	
EER			W/W	2.92	
COP			W/W	3.48	
REFRIGERANT TYPE			R22		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	
		OPERATION		LCD REMOTE CONTROL	
	AIR FLOW	HEIGHT	I/s / CFM	316 / 670	
		MEDIUM	I/s / CFM	297 / 630	
		LOW	I/s / CFM	236 / 500	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	49 / 47 / 45	
	UNIT DIMENSION	HEIGHT	mm/in	360 / 14.2	
		WIDTH	mm/in	1200 / 47.2	
		DEPTH	mm/in	200 / 7.9	
	PACKING DIMENSION	HEIGHT	mm/in	420 / 16.5	
WIDTH		mm/in	1267 / 49.9		
DEPTH		mm/in	260 / 10.2		
UNIT WEIGHT		kg/lb	17 / 37.48		
CONDENSATE DRAIN SIZE		mm/in	20 / 0.8		
OUTDOOR UNIT	AIR FLOW		I/s / CFM	741 / 1570	
	SOUND PRESSURE LEVEL		dBA	54	
	UNIT DIMENSION	HEIGHT	mm/in	756 / 29.8	
		WIDTH	mm/in	855 / 33.7	
		DEPTH	mm/in	328 / 12.9	
	PACKING DIMENSION	HEIGHT	mm/in	810 / 31.9	
		WIDTH	mm/in	990 / 39.0	
		DEPTH	mm/in	415 / 16.3	
	UNIT WEIGHT		kg/lb	68 / 150	
	PIPE CONNECTION	TYPE		FLARE VALVE	
SIZE		LIQUID	mm/in	9.52 / 3/8	
		GAS	mm/in	15.88 / 5/8	
REFRIGERANT CHARGE			kg/lb	2.10 / 4.63	

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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 - Cooling Only (R22)

MODEL	INDOOR UNIT			A5WM 07G	A5WM 09G	
	OUTDOOR UNIT			A5LC 07C	A5LC 10C	
NOMINAL CAPACITY	Btu/h			7500	9000	
	W			2200	2640	
NOMINAL TOTAL INPUT POWER	W			620	860	
NOMINAL RUNNING CURRENT	A			2.90	3.90	
POWER SOURCE	V/Ph/Hz			220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W			3.55	3.07	
REFRIGERANT TYPE				R410A	R410A	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE			DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION			LCD REMOTE CONTROL	LCD REMOTE CONTROL
	AIR FLOW	HEIGHT	I/s / CFM	130 / 275	130 / 275	
		MEDIUM	I/s / CFM	106 / 225	106 / 225	
		LOW	I/s / CFM	83 / 175	83 / 175	
	SOUND PRESSURE LEVEL (H/M/L)		dB(A)	40 / 35 / 29	40 / 35 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	260 / 10.2	
		WIDTH	mm/in	799 / 31.5	799 / 31.5	
		DEPTH	mm/in	198 / 7.8	198 / 7.8	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	337 / 13.3	
		WIDTH	mm/in	857 / 33.7	857 / 33.7	
		DEPTH	mm/in	270 / 10.6	270 / 10.6	
	UNIT WEIGHT		kg/lb	10 / 22.0	10 / 22.0	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.6	16 / 0.6	
OUTDOOR UNIT	AIR FLOW		I/s / CFM	307 / 650	396 / 840	
	SOUND PRESSURE LEVEL		dB(A)	44	46	
	UNIT DIMENSION	HEIGHT	mm/in	495 / 19.5	540 / 21.3	
		WIDTH	mm/in	600 / 23.6	700 / 27.6	
		DEPTH	mm/in	245 / 9.7	250 / 9.8	
	PACKING DIMENSION	HEIGHT	mm/in	575 / 22.6	620 / 24.4	
		WIDTH	mm/in	715 / 28.1	810 / 31.9	
		DEPTH	mm/in	330 / 13.0	330 / 13.0	
	UNIT WEIGHT		kg/lb	26 / 57.3	32 / 70.5	
	PIPE CONNECTION	TYPE		FLARE VALVE	FLARE VALVE	
		SIZE	LIQUID	mm/in	6.35 / 1/4	6.35 / 1/4
GAS			mm/in	9.52 / 3/8	9.52 / 3/8	
REFRIGERANT CHARGE			kg/lb	0.60 / 1.32	0.69 / 1.52	

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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 :

COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°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 - Cooling Only (R410A)

MODEL	INDOOR UNIT			A5WM 10G	A5WM 15G	
	OUTDOOR UNIT			A5LC 10C	A5LC 15C	
NOMINAL CAPACITY	Btu/h			9500	12000	
	W			2780	3520	
NOMINAL TOTAL INPUT POWER	W			910	1230	
NOMINAL RUNNING CURRENT	A			3.90	5.40	
POWER SOURCE	V/Ph/Hz			220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W			3.05	2.86	
REFRIGERANT TYPE				R410A	R410A	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE			DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION			LCD REMOTE CONTROL	LCD REMOTE CONTROL
	AIR FLOW	HEIGHT	I/s / CFM	142 / 300	163 / 345	
		MEDIUM	I/s / CFM	118 / 250	135 / 285	
		LOW	I/s / CFM	94 / 200	104 / 220	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	260 / 10.2	
		WIDTH	mm/in	899 / 35.4	899 / 35.4	
		DEPTH	mm/in	198 / 7.8	198 / 7.8	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	337 / 13.3	
		WIDTH	mm/in	957 / 37.7	957 / 37.7	
		DEPTH	mm/in	270 / 10.6	270 / 10.6	
	UNIT WEIGHT		kg/lb	12 / 26.5	12 / 26.5	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.6	16 / 0.6	
OUTDOOR UNIT	AIR FLOW		I/s / CFM	396 / 840	453 / 960	
	SOUND PRESSURE LEVEL		dBA	46	49	
	UNIT DIMENSION	HEIGHT	mm/in	540 / 21.3	540 / 21.3	
		WIDTH	mm/in	700 / 27.6	700 / 27.6	
		DEPTH	mm/in	250 / 9.8	250 / 9.8	
	PACKING DIMENSION	HEIGHT	mm/in	620 / 24.4	620 / 24.4	
		WIDTH	mm/in	810 / 31.9	810 / 31.9	
		DEPTH	mm/in	330 / 13.0	330 / 13.0	
	UNIT WEIGHT		kg/lb	33 / 70.5	32 / 70.5	
	PIPE CONNECTION	TYPE		FLARE VALVE	FLARE VALVE	
		SIZE	LIQUID	mm/in	6.35 / 1/4	6.35 / 1/4
GAS			mm/in	9.52 / 3/8	12.70 / 1/2	
REFRIGERANT CHARGE		kg/lb	0.69 / 1.52	0.80 / 1.76		

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°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 - Cooling Only (R410A)

MODEL	INDOOR UNIT			A5WM 20G	A5WM 25G
	OUTDOOR UNIT			A5LC 20C	A5LC 25C
NOMINAL CAPACITY-1Ø/ <3Ø>	Btu/h			17850 / <18000>	20350 / <22500>
	W			5230 / <5280>	5960 / <6590>
NOMINAL TOTAL INPUT POWER-1Ø/ <3Ø>	W			1630 / <1663>	1860 / <2195>
NOMINAL RUNNING CURRENT-1Ø/ <3Ø>	A			7.3 / <3.2>	8.4 / <4.2>
POWER SOURCE-1Ø/ <3Ø>	V/Ph/Hz			220-240/ 1/ 50 / <380-415/ 3/ 50>	220-240/ 1/ 50 / <380-415/ 3/ 50>
EER-1Ø/ <3Ø>	W/W			3.21 / <3.17>	3.21 / <3.00>
REFRIGERANT TYPE				R410A	R410A
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION		LCD REMOTE CONTROL	LCD REMOTE CONTROL
	AIR FLOW	HIGH	l/s / CFM	231 / 490	297 / 630
		MEDIUM	l/s / CFM	193 / 410	231 / 490
		LOW	l/s / CFM	160 / 340	208 / 440
	SOUND PRESSURE LEVEL (H/M/L)		dBA	43 / 40 / 35	49 / 44 / 42
	UNIT DIMENSION	HEIGHT	mm/in	304 / 12.0	304 / 12.0
		WIDTH	mm/in	1062 / 41.8	1062 / 41.8
		DEPTH	mm/in	222 / 8.7	222 / 8.7
	PACKING DIMENSION	HEIGHT	mm/in	378 / 14.9	378 / 14.9
		WIDTH	mm/in	1130 / 44.5	1130 / 44.5
		DEPTH	mm/in	292 / 11.5	292 / 11.5
	UNIT WEIGHT		kg/lb	16 / 35.3	16 / 35.3
	CONDENSATE DRAIN SIZE		mm/in	20 / 0.8	20 / 0.8
OUTDOOR UNIT	AIR FLOW		l/s / CFM	614 / 1300	689 / 1460
	SOUND PRESSURE LEVEL		dBA	52	52
	UNIT DIMENSION	HEIGHT	mm/in	654 / 25.7	756 / 29.8
		WIDTH	mm/in	855 / 33.7	855 / 33.7
		DEPTH	mm/in	328 / 12.9	328 / 12.9
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0	810 / 31.9
		WIDTH	mm/in	990 / 39.0	990 / 39.0
		DEPTH	mm/in	415 / 16.3	415 / 16.3
	UNIT WEIGHT		kg/lb	59 / 130.1	62 / 136.7
	PIPE CONNECTION	TYPE		FLARE VALVE	FLARE VALVE
		SIZE	LIQUID	mm/in	6.35 / 1/4
GAS			mm/in	12.70 / 1/2	15.88 / 5/8
REFRIGERANT CHARGE		kg/lb	1.38 / 3.03	1.54 / 3.40	

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW:
COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°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 - Cooling Only (R410A)

MODEL		INDOOR UNIT		A5WM 311	
		OUTDOOR UNIT		A5LC - 28C	
NOMINAL CAPACITY-1Ø/ <3Ø>			Btu/h	26000 / <26000>	
			W	7620 / <7620>	
NOMINAL TOTAL INPUT POWER-1Ø/ <3Ø>			W	2560 / <2631>	
NOMINAL RUNNING CURRENT-1Ø/ <3Ø>			A	12.2 / <4.6>	
POWER SOURCE-1Ø/ <3Ø>			V/Ph/Hz	220-240/ 1/ 50 / <380-415/ 3/ 50>	
EER-1Ø/ <3Ø>			W/W	2.98 / <2.90>	
REFRIGERANT TYPE			R410A		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		AUTO LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	
		OPERATION		LCD REMOTE CONTROL	
	AIR FLOW	HIGH	I/s / CFM	316 / 670	
		MEDIUM	I/s / CFM	297 / 630	
		LOW	I/s / CFM	236 / 500	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	49 / 47 / 45	
	UNIT DIMENSION	HEIGHT	mm/in	360 / 14.2	
		WIDTH	mm/in	1200 / 47.2	
		DEPTH	mm/in	200 / 7.9	
	PACKING DIMENSION	HEIGHT	mm/in	420 / 16.5	
		WIDTH	mm/in	1267 / 49.9	
		DEPTH	mm/in	260 / 10.2	
	UNIT WEIGHT		kg/lb	17 / 37.5	
	CONDENSATE DRAIN SIZE		mm/in	20 / 0.8	
OUTDOOR UNIT	AIR FLOW		I/s / CFM	632 / 1340	
	SOUND PRESSURE LEVEL		dBA	54	
	UNIT DIMENSION	HEIGHT	mm/in	756 / 29.8	
		WIDTH	mm/in	855 / 33.7	
		DEPTH	mm/in	328 / 12.9	
	PACKING DIMENSION	HEIGHT	mm/in	810 / 31.9	
		WIDTH	mm/in	990 / 39.0	
		DEPTH	mm/in	415 / 16.3	
	UNIT WEIGHT		kg/lb	68 / 149.9	
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	9.52 / 3/8
GAS			mm/in	15.88 / 5/8	
REFRIGERANT CHARGE		kg/lb	1.75 / 3.86		

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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 :

COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°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 (R410A)

MODEL	INDOOR UNIT		A5WM 07GR	A5WM 09GR	
	OUTDOOR UNIT		A5LC 07CR	A5LC 10CR	
NOMINAL COOLING CAPACITY	Btu/h		7500	9000	
	W		2200	2640	
NOMINAL HEATING CAPACITY	Btu/h		7500	9000	
	W		2200	2640	
NOMINAL TOTAL INPUT POWER (COOLING)	W		680	860	
NOMINAL TOTAL INPUT POWER (HEATING)	W		550	745	
NOMINAL RUNNING CURRENT (COOLING)	A		3.10	3.90	
NOMINAL RUNNING CURRENT (HEATING)	A		2.60	3.40	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W		3.24	3.07	
COP	W/W		4.00	3.54	
REFRIGERANT TYPE			R410A	R410A	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION		LCD REMOTE CONTROL	LCD REMOTE CONTROL
	AIR FLOW	HEIGHT	l/s / CFM	130 / 275	130 / 275
		MEDIUM	l/s / CFM	106 / 225	106 / 225
		LOW	l/s / CFM	83 / 175	83 / 175
	SOUND PRESSURE LEVEL (H/M/L)		dBA	40 / 35 / 29	40 / 35 / 29
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	260 / 10.2
		WIDTH	mm/in	799 / 31.5	799 / 31.5
		DEPTH	mm/in	198 / 7.8	198 / 7.8
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	337 / 13.3
		WIDTH	mm/in	857 / 33.7	857 / 33.7
		DEPTH	mm/in	270 / 10.6	270 / 10.6
	UNIT WEIGHT		kg/lb	10 / 22.0	10 / 22.0
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.6	16 / 0.6
OUTDOOR UNIT	AIR FLOW		l/s / CFM	307 / 650	396 / 840
	SOUND PRESSURE LEVEL		dBA	44	46
	UNIT DIMENSION	HEIGHT	mm/in	495 / 19.5	540 / 21.3
		WIDTH	mm/in	600 / 23.6	700 / 27.6
		DEPTH	mm/in	245 / 9.7	250 / 9.8
	PACKING DIMENSION	HEIGHT	mm/in	575 / 22.6	620 / 24.4
		WIDTH	mm/in	715 / 28.1	810 / 31.9
		DEPTH	mm/in	330 / 13.0	330 / 13.0
	UNIT WEIGHT		kg/lb	26 / 57.3	32 / 70.5
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	6.35 / 1/4
GAS			mm/in	9.52 / 3/8	9.52 / 3/8
REFRIGERANT CHARGE		kg/lb	0.80/1.76	0.73 / 1.61	

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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 (R410A)

MODEL	INDOOR UNIT		A5WM 10GR	A5WM 15GR	
	OUTDOOR UNIT		A5LC 10CR	A5LC 15CR	
NOMINAL COOLING CAPACITY	Btu/h		9500	12000	
	W		2780	3520	
NOMINAL HEATING CAPACITY	Btu/h		9500	12000	
	W		2780	3520	
NOMINAL TOTAL INPUT POWER (COOLING)	W		910	1230	
NOMINAL TOTAL INPUT POWER (HEATING)	W		770	1080	
NOMINAL RUNNING CURRENT (COOLING)	A		3.90	5.40	
NOMINAL RUNNING CURRENT (HEATING)	A		3.40	4.90	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W		3.05	2.86	
COP	W/W		3.61	3.26	
REFRIGERANT TYPE			R410A	R410A	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION		LCD REMOTE CONTROL	LCD REMOTE CONTROL
	AIR FLOW	HEIGHT	l/s / CFM	142 / 300	163 / 345
		MEDIUM	l/s / CFM	118 / 250	135 / 285
		LOW	l/s / CFM	94 / 200	104 / 220
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	260 / 10.2
		WIDTH	mm/in	899 / 35.4	899 / 35.4
		DEPTH	mm/in	198 / 7.8	198 / 7.8
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	337 / 13.3
		WIDTH	mm/in	957 / 37.7	957 / 37.7
		DEPTH	mm/in	270 / 10.6	270 / 10.6
	UNIT WEIGHT		kg/lb	12 / 26.5	12 / 26.5
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.6	16 / 0.6
OUTDOOR UNIT	AIR FLOW		l/s / CFM	396 / 840	453 / 960
	SOUND PRESSURE LEVEL		dBA	46	49
	UNIT DIMENSION	HEIGHT	mm/in	540 / 21.3	540 / 21.3
		WIDTH	mm/in	700 / 27.6	700 / 27.6
		DEPTH	mm/in	250 / 9.8	250 / 9.8
	PACKING DIMENSION	HEIGHT	mm/in	620 / 24.4	620 / 24.4
		WIDTH	mm/in	810 / 31.9	810 / 31.9
		DEPTH	mm/in	330 / 13.0	330 / 13.0
	UNIT WEIGHT		kg/lb	32 / 70.5	32 / 70.5
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	6.35 / 1/4
GAS			mm/in	9.52 / 3/8	12.70 / 1/2
REFRIGERANT CHARGE		kg/lb	0.73 / 1.61	0.83 / 1.82	

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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 (R410A)

MODEL	INDOOR UNIT		A5WM 20GR	A5WM 25GR	
	OUTDOOR UNIT		A5LC 20CR	A5LC 25CR	
NOMINAL COOLING CAPACITY- 1Ø / <3Ø>	Btu/h		17850 / <18000>	20350 / <22500>	
	W		5230 / <5280>	5960 / <6590>	
NOMINAL HEATING CAPACITY- 1Ø / <3Ø>	Btu/h		18000 / <18500>	22000 / <23000>	
	W		5280 / <5420>	6448 / <6740>	
NOMINAL TOTAL INPUT POWER (COOLING)- 1Ø / <3Ø>	W		1630 / <1663>	1860 / <2195>	
NOMINAL TOTAL INPUT POWER (HEATING)- 1Ø / <3Ø>	W		1546 / <1630>	1870 / <2106>	
NOMINAL RUNNING CURRENT (COOLING)- 1Ø / <3Ø>	A		7.2 / <3.2>	8.4 / <4.2>	
NOMINAL RUNNING CURRENT (HEATING)- 1Ø / <3Ø>	A		6.8 / <3.1>	8.4 / <4.2>	
POWER SOURCE- 1Ø / <3Ø>	V/Ph/Hz		220-240/ 1/ 50 / <380-415/ 3/ 50>	220-240/ 1/ 50 / <380-415/ 3/ 50>	
EER- 1Ø / <3Ø>	W/W		3.21 / <3.17>	3.21 / <3.00>	
COP- 1Ø / <3Ø>	W/W		3.42 / <3.33>	3.45 / <3.20>	
REFRIGERANT TYPE			R410A	R410A	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION		LCD REMOTE CONTROL	LCD REMOTE CONTROL
	AIR FLOW	HEIGHT	l/s / CFM	231 / 490	297 / 630
		MEDIUM	l/s / CFM	193 / 410	231 / 490
		LOW	l/s / CFM	160 / 340	208 / 440
	SOUND PRESSURE LEVEL (H/M/L)		dBA	43 / 40 / 35	49 / 44 / 42
	UNIT DIMENSION	HEIGHT	mm/in	304 / 12.0	304 / 12.0
		WIDTH	mm/in	1062 / 41.8	1062 / 41.8
		DEPTH	mm/in	222 / 8.7	222 / 8.7
	PACKING DIMENSION	HEIGHT	mm/in	378 / 14.9	378 / 14.9
		WIDTH	mm/in	1130 / 44.5	1130 / 44.5
		DEPTH	mm/in	292 / 11.5	292 / 11.5
	UNIT WEIGHT		kg/lb	16 / 35.3	16 / 35.3
CONDENSATE DRAIN SIZE		mm/in	20 / 0.8	20 / 0.8	
OUTDOOR UNIT	AIR FLOW		l/s / CFM	614 / 1300	689 / 1460
	SOUND PRESSURE LEVEL		dBA	52	52
	UNIT DIMENSION	HEIGHT	mm/in	654 / 25.7	756 / 29.8
		WIDTH	mm/in	855 / 33.7	855 / 33.7
		DEPTH	mm/in	328 / 12.9	328 / 12.9
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0	810 / 31.9
		WIDTH	mm/in	990 / 39.0	990 / 39.0
		DEPTH	mm/in	415 / 16.3	415 / 16.3
	UNIT WEIGHT		kg/lb	59 / 130.1	62 / 136.7
	PIPE CONNECTION	TYPE		FLARE VALVE	
SIZE		LIQUID	mm/in	6.35 / 1/4	6.35 / 1/4
		GAS	mm/in	12.70 / 1/2	15.88 / 5/8
REFRIGERANT CHARGE			kg/lb	1.38 / 3.03	1.54 / 3.40

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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 (R410A)

MODEL	INDOOR UNIT			A5WM 301R
	OUTDOOR UNIT			A5LC 28CR
NOMINAL COOLING CAPACITY- 1Ø / <3Ø>	Btu/h			26000 / <26000>
	W			7620 / <7620>
NOMINAL HEATING CAPACITY- 1Ø / <3Ø>	Btu/h			26000 / <26000>
	W			7620 / <7620>
NOMINAL TOTAL INPUT POWER (COOLING)- 1Ø / <3Ø>	W			2560 / <2631>
NOMINAL TOTAL INPUT POWER (HEATING)- 1Ø / <3Ø>	W			2442 / <2294>
NOMINAL RUNNING CURRENT (COOLING)- 1Ø / <3Ø>	A			12.2 / <4.6>
NOMINAL RUNNING CURRENT (HEATING)- 1Ø / <3Ø>	A			11.6 / <4.2>
POWER SOURCE- 1Ø / <3Ø>	V/Ph/Hz			220-240/ 1/ 50 / <380-415/ 3/ 50>
EER- 1Ø / <3Ø>	W/W			2.98 / <2.90>
COP- 1Ø / <3Ø>	W/W			3.12 / <3.32>
REFRIGERANT TYPE				R410A
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE
INDOOR UNIT	CONTROL	AIR DISCHARGE		AUTO LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION		LCD REMOTE CONTROL
	AIR FLOW	HIGH	l/s / CFM	316 / 670
		MEDIUM	l/s / CFM	297 / 630
		LOW	l/s / CFM	236 / 500
	SOUND PRESSURE LEVEL (H/M/L)		dBA	49 / 47 / 45
	UNIT DIMENSION	HEIGHT	mm/in	360 / 14.2
		WIDTH	mm/in	1200 / 47.2
		DEPTH	mm/in	200 / 7.9
	PACKING DIMENSION	HEIGHT	mm/in	420 / 16.5
		WIDTH	mm/in	1267 / 49.9
		DEPTH	mm/in	260 / 10.2
	UNIT WEIGHT		kg/lb	17 / 37.5
	CONDENSATE DRAIN SIZE		mm/in	20 / 0.8
OUTDOOR UNIT	AIR FLOW		l/s / CFM	632 / 1340
	SOUND PRESSURE LEVEL		dBA	54
	UNIT DIMENSION	HEIGHT	mm/in	756 / 29.8
		WIDTH	mm/in	855 / 33.7
		DEPTH	mm/in	328 / 12.9
	PACKING DIMENSION	HEIGHT	mm/in	810 / 31.9
		WIDTH	mm/in	990 / 39.0
		DEPTH	mm/in	415 / 16.3
	UNIT WEIGHT		kg/lb	68 / 149.9
	PIPE CONNECTION	TYPE		FLARE VALVE
		SIZE	LIQUID	mm/in
GAS			mm/in	15.88 / 5/8
REFRIGERANT CHARGE			kg/lb	1.75 / 3.86

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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.

Component Data - Cooling Only (R22)

MODEL	INDOOR UNIT		AWM 07G	AWM 09G		
	OUTDOOR UNIT		ALC 07C	ALC 09C		
INDOOR FAN	TYPE		CROSS FLOW FAN	CROSS FLOW FAN		
	QUANTITY		1	1		
	MATERIAL		ACRYLO NITRILE STYRENE	ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	97 / 3.8	97 / 3.8		
	LENGTH	mm/in	617.5 / 24.3	617.5 / 24.3		
INDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP24	IP24		
OUTDOOR FAN	TYPE		PROPELLER	PROPELLER		
	QUANTITY		1	1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	356 / 14	356 / 14		
OUTDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP54	IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC	ROTARY HERMETIC		
	OIL TYPE		ATMOS M60 or SUNISO 4GDID	ATMOS M60 or SUNISO 4GDID		
	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	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.201 / 2.161	0.201 / 2.161	
		ROW		2	2	
		FIN PER INCH		18	18	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		RASE LANCE	RASE LANCE	
		THICKNESS	mm/in	0.10 / 0.004	0.10 / 0.004	
		FACE AREA	m ² /ft ²	0.31 / 3.40	0.31 / 3.40	
		ROW		1	1	
		FIN PER INCH		18	18	
AIR QUALITY	FILTER	TYPE		NANO FILTER	NANO FILTER	
		QUANTITY	pc	2	2	
		SIZE	LENGTH	mm/in	304 / 11.9	304 / 11.9
			WIDTH	mm/in	298 / 11.7	298 / 11.7
		THICKNESS	mm/in	1.5 / 0.06	1.5 / 0.06	
	NEGATIVE IONIZER			YES	YES	
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	HIGH IMPACT POLYSTYRENE	
			COLOUR	LIGHT GREY	LIGHT GREY	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL	
			COLOUR	LIGHT GREY	LIGHT GREY	

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Component Data - Cooling Only (R22)

MODEL	INDOOR UNIT		AWM 10G	AWM 15G		
	OUTDOOR UNIT		ALC 10C	ALC 15C		
INDOOR FAN	TYPE		CROSS FLOW FAN	CROSS FLOW FAN		
	QUANTITY		1	1		
	MATERIAL		ACRYLO NITRILE STYRENE	ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	97 / 3.8	97 / 3.8		
	LENGTH	mm/in	717.5 / 28.2	717.5 / 28.2		
INDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP24	IP24		
OUTDOOR FAN	TYPE		PROPELLER	PROPELLER		
	QUANTITY		1	1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	404 / 16	404 / 16		
OUTDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP54	IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC	ROTARY HERMETIC		
	OIL TYPE		ATMOS M60 or SUNISO 4GDID	ATMOS M60 or SUNISO 4GDID		
	OIL AMOUNT	cm ³ / fl.oz.	320 / 11.3	350 / 11.8		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.234 / 2.516	0.234 / 2.516	
		ROW		2	2	
		FIN PER INCH		18	18	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		CORRUGATED	RASE LANCE	
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004	
		FACE AREA	m ² /ft ²	0.36 / 3.94	0.36 / 3.94	
		ROW		1	1	
		FIN PER INCH		18	18	
AIR QUALITY	FILTER	TYPE		NANO FILTER	NANO FILTER	
		QUANTITY	pc	2	2	
		SIZE	LENGTH	mm/in	304 / 11.9	304 / 11.9
			WIDTH	mm/in	348 / 13.7	348 / 13.7
			THICKNESS	mm/in	1.5 / 0.06	1.5 / 0.06
	NEGATIVE IONIZER			YES	YES	
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	HIGH IMPACT POLYSTYRENE	
			COLOUR	LIGHT GREY	LIGHT GREY	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL	
			COLOUR	LIGHT GREY	LIGHT GREY	

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Component Data - Cooling Only (R22)

MODEL	INDOOR UNIT		AWM 20G	AWM 20G		
	OUTDOOR UNIT		ALC 18C	ALC 20C		
INDOOR FAN	TYPE		CROSS FLOW FAN	CROSS FLOW FAN		
	QUANTITY		1	1		
	MATERIAL		ACRYLO NITRILE STYRENE	ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	108 / 4.25	108 / 4.25		
	LENGTH	mm/in	810 / 31.9	810 / 31.9		
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 ACRYL STYRENE RESIN	GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	457.2 / 18	457.2 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP54	IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC	ROTARY HERMETIC		
	OIL TYPE		ATMOS NM56M or SUNISO 4GDID	ATMOS NM56M or SUNISO 4GDID		
	OIL AMOUNT	cm ³ / fl.oz.	600 / 21.1	1000 / 35.2		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.269 / 2.900	0.269 / 2.900	
		ROW		2	2	
		FIN PER INCH		18	18	
	OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
DIAMETER			mm/in	7.0 / 0.276	7.0 / 0.276	
THICKNESS			mm/in	0.28 / 0.011	0.28 / 0.011	
FIN		MATERIAL		ALUMINIUM (RAISE LANCE FIN)	ALUMINIUM (RAISE LANCE FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.52 / 5.59	0.52 / 5.59	
		ROW		1	2	
		FIN PER INCH		20	18	
AIR QUALITY	FILTER	TYPE		NANO FILTER	NANO FILTER	
		QUANTITY	pc	2	2	
		SIZE	LENGTH	mm/in	351/13.8	351/13.8
			WIDTH	mm/in	386 / 15.2	386 / 15.2
	THICKNESS	mm/in	1.5 / 0.06	1.5 / 0.06		
	NEGATIVE IONIZER			YES	YES	
	CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	HIGH IMPACT POLYSTYRENE
COLOUR				LIGHT GREY	LIGHT GREY	
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL		
		COLOUR	LIGHT GREY	LIGHT GREY		

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Component Data - Cooling Only (R22)

MODEL	INDOOR UNIT		AWM 25G	AWM 301		
	OUTDOOR UNIT		ALC 25C	ALC 28C		
INDOOR FAN	TYPE		CROSS FLOW FAN	CROSS FLOW FAN		
	QUANTITY		1	1		
	MATERIAL		ACRYLO NITRILE STYRENE	ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	108 / 4.25	106 / 4.17		
	LENGTH	mm/in	810 / 31.9	950 / 37.4		
INDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP20	IP24		
OUTDOOR FAN	TYPE		PROPELLER	PROPELLER		
	QUANTITY		1	1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	457.2 / 18	457.2 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP54	IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC	ROTARY HERMETIC		
	OIL TYPE		ATMOS NM56M or SUNISO 4GDID	ATMOS NM56M or SUNISO 4GDID		
	OIL AMOUNT	cm ³ / fl.oz.	700 / 24.6	1130 / 39.8		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	9.52 / 0.375	
		THICKNESS	mm/in	0.28 / 0.011	0.35 / 0.013	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.269 / 2.900	0.291 / 3.130	
		ROW		2	2	
		FIN PER INCH		18	16	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	9.52 / 3/8	
		THICKNESS	mm/in	0.28 / 0.011	0.33 / 0.013	
	FIN	MATERIAL		RAISE LANCE	ALUMINIUM (SLIT FIN)	
		THICKNESS	mm/in	0.127 / 0.005	0.127 / 0.005	
		FACE AREA	m ² /ft ²	0.61 / 6.52	0.61 / 6.52	
		ROW		2	2	
		FIN PER INCH		18	18	
AIR QUALITY	FILTER	TYPE		NANO FILTER	SARANET + IONIZER	
		QUANTITY	pc	2	3 X 3	
		SIZE	LENGTH	mm/in	351/13.8	330 / 13.0
			WIDTH	mm/in	386 / 15.2	317 / 12.4
			THICKNESS	mm/in	1.5 / 0.06	1.8 / 0.07
	NEGATIVE IONIZER			YES	NO	
CASING	INDOOR UNIT	MATERIAL	HIGH IMPACT POLYSTYRENE	ABS		
		COLOUR	LIGHT GREY	LIGHT GREY		
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL		
		COLOUR	LIGHT GREY	LIGHT GREY		

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Component Data - Heat Pump (R22)

MODEL	INDOOR UNIT		AWM 09GR	AWM 10GR		
	OUTDOOR UNIT		ALC 09CR	ALC 10CR		
INDOOR FAN	TYPE		ANTI FUNGUS SKEW FAN	ANTI FUNGUS SKEW FAN		
	QUANTITY		1	1		
	MATERIAL		ACRYLO NITRILE STYRENE	ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	97 / 3.8	97 / 3.8		
	LENGTH	mm/in	617.5 / 24.3	717.5 / 28.2		
INDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP24	IP24		
OUTDOOR FAN	TYPE		PROPELLER	PROPELLER		
	QUANTITY		1	1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	356 / 14	404 / 16		
OUTDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP54	IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC	ROTARY HERMETIC		
	OIL TYPE		ATMOS M60 or SUNISO 4GDID	ATMOS M60 or SUNISO 4GDID		
	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	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.201 / 2.161	0.234 / 2.516	
		ROW		2	2	
		FIN PER INCH		18	18	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	0.33 / 0.013	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (SLIT FIN)	
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004	
		FACE AREA	m ² /ft ²	0.31 / 3.40	0.36 / 3.94	
		ROW		1	1	
		FIN PER INCH		18	18	
AIR QUALITY	FILTER	TYPE		NANO FILTER	NANO FILTER	
		QUANTITY	pc	2	2	
		SIZE	LENGTH	mm/in	304 / 11.9	304 / 11.9
			WIDTH	mm/in	298 / 11.7	348 / 13.7
			THICKNESS	mm/in	1.5 / 0.06	1.5 / 0.06
	NEGATIVE IONIZER			YES	YES	
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	HIGH IMPACT POLYSTYRENE	
			COLOUR	LIGHT GREY	LIGHT GREY	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL	
			COLOUR	LIGHT GREY	LIGHT GREY	

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

Component Data - Heat Pump (R22)

MODEL	INDOOR UNIT		AWM 15GR	AWM 20GR		
	OUTDOOR UNIT		ALC 15CR	ALC 18CR		
INDOOR FAN	TYPE		ANTI FUNGUS SKEW FAN	CROSS FLOW FAN		
	QUANTITY		1	1		
	MATERIAL		ACRYLO NITRILE STYRENE	ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	97 / 3.8	108 / 4.25		
	LENGTH	mm/in	717.5 / 28.2	810 / 31.9		
INDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP24	IP20		
OUTDOOR FAN	TYPE		PROPELLER	PROPELLER		
	QUANTITY		1	1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	404 / 16	457.2/18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP54	IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC	ROTARY HERMETIC		
	OIL TYPE		ATMOS M60 or SUNISO 4GDID	ATMOS NM56M or SUNISO 4GDID		
	OIL AMOUNT	cm ³ / fl.oz.	350 / 11.8	600 / 21.1		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.234 / 2.516	0.269 / 2.900	
		ROW		2	2	
		FIN PER INCH		18	18	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	9.52 / 3/8	7.0 / 0.276	
		THICKNESS	mm/in	0.33 / 0.013	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (RAISE LANCE FIN)	
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.36 / 3.94	0.52 / 5.59	
		ROW		1	1	
		FIN PER INCH		18	20	
AIR QUALITY	FILTER	TYPE		NANO FILTER	NANO FILTER	
		QUANTITY	pc	2	2	
		SIZE	LENGTH	mm/in	304 / 11.9	351 / 13.8
			WIDTH	mm/in	348 / 13.7	386 / 15.2
			THICKNESS	mm/in	1.5 / 0.06	1.5 / 0.06
	NEGATIVE IONIZER			YES	YES	
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	HIGH IMPACT POLYSTYRENE	
			COLOUR	LIGHT GREY	LIGHT GREY	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL	
			COLOUR	LIGHT GREY	LIGHT GREY	

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Component Data - Heat Pump (R22)

MODEL	INDOOR UNIT		AWM 20GR	AWM 25GR		
	OUTDOOR UNIT		ALC 20CR	ALC 25CR		
INDOOR FAN	TYPE		ANTI FUNGUS SKEW FAN	ANTI FUNGUS SKEW FAN		
	QUANTITY		1	1		
	MATERIAL		ACRYLO NITRILE STYRENE	ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	108 / 4.25	108 / 4.25		
	LENGTH	mm/in	810 / 31.9	810 / 31.9		
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 ACRYL STYRENE RESIN	GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	457.2 / 18	457.2 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP54	IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC	ROTARY HERMETIC		
	OIL TYPE		RB68A ORFREOL ALPHA68M	RB68A ORFREOL ALPHA68M		
	OIL AMOUNT	cm ³ / fl.oz.	670 / 23.5	1130 / 39.7		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.269 / 2.900	0.269 / 2.900	
		ROW		2	2	
		FIN PER INCH		18	18	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	ALUMINIUM (CORR. FIN)	
		THICKNESS	mm/in	0.127 / 0.005	0.127 / 0.005	
		FACE AREA	m ² /ft ²	0.51 / 5.47	0.62 / 6.64	
		ROW		2	2	
		FIN PER INCH		18	18	
AIR QUALITY	FILTER	TYPE		NANO FILTER	NANO FILTER	
		QUANTITY	pc	2	2	
		SIZE	LENGTH	mm/in	351/13.8	351/13.8
			WIDTH	mm/in	386 / 15.2	386 / 15.2
	THICKNESS	mm/in	1.5 / 0.06	1.5 / 0.06		
	NEGATIVE IONIZER			YES	YES	
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	HIGH IMPACT POLYSTYRENE	
			COLOUR	IVORY	IVORY	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL	
			COLOUR	LIGHT GREY	LIGHT GREY	

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Component Data - Heat Pump (R22)

MODEL	INDOOR UNIT		AWM 301R		
	OUTDOOR UNIT		ALC 28CR		
INDOOR FAN	TYPE		ANTI FUNGUS CROSS FLOW FAN		
	QUANTITY		1		
	MATERIAL		ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT		
	DIAMETER	mm/in	106 / 4.17		
	LENGTH	mm/in	950 / 37.4		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP24		
OUTDOOR FAN	TYPE		PROPELLER		
	QUANTITY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT		
	DIAMETER	mm/in	457.2/18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC		
	OIL TYPE		ATMOS M60 or SUNISO 4GDID		
	OIL AMOUNT	cm ³ / fl.oz.	1130 / 39.8		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	9.52 / 0.375	
		THICKNESS	mm/in	0.35 / 0.013	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.291 / 3.130	
		ROW		2	
		FIN PER INCH		16	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m ² /ft ²	0.61 / 6.52	
		ROW		2	
		FIN PER INCH		18	
AIR QUALITY	FILTER	TYPE		SARANET + IONIZER	
		QUANTITY	pc	3 X 3	
		SIZE	LENGTH	mm/in	330 / 13.0
			WIDTH	mm/in	317 / 12.4
	THICKNESS	mm/in	1.8 / 0.07		
	NEGATIVE IONIZER		NO		
CASING	INDOOR UNIT		MATERIAL	ABS	
			COLOUR	LIGHT GREY	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	
			COLOUR	LIGHT GREY	

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Component Data - Cooling Only (R410A)

MODEL	INDOOR UNIT		A5WM 07G	A5WM 09G		
	OUTDOOR UNIT		A5LC 07C	A5LC 10C		
INDOOR FAN	TYPE		ANTI FUNGUS SKEW FAN	ANTI FUNGUS SKEW FAN		
	QUANTITY		1	1		
	MATERIAL		ACRYLO NITRILE STYRENE	ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	97 / 3.8	97 / 3.8		
	LENGTH	mm/in	617.5 / 24.3	617.5 / 24.3		
INDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP24	IP24		
OUTDOOR FAN	TYPE		PROPELLER	PROPELLER		
	QUANTITY		1	1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	356 / 14	356 / 14		
OUTDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP54	IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC	ROTARY HERMETIC		
	OIL TYPE		RB68A OR FREOL ALPHA68M	RB68A OR FREOL ALPHA68M		
	OIL AMOUNT	cm ³ / fl.oz.	300 / 10.5	350 / 12.3		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.201 / 2.161	0.201 / 2.161	
		ROW		2	2	
		FIN PER INCH		18	18	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	0.33 / 0.013	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (SLIT FIN)	
		THICKNESS	mm/in	0.11/0.004	0.11/0.004	
		FACE AREA	m ² /ft ²	0.31 / 3.40	0.36 / 3.94	
		ROW		1	1	
		FIN PER INCH		18	18	
AIR QUALITY	FILTER	TYPE		NANO FILTER	NANO FILTER	
		QUANTITY	pc	2	2	
		SIZE	LENGTH	mm/in	304 / 11.9	304 / 11.9
			WIDTH	mm/in	298 / 11.7	298 / 11.7
			THICKNESS	mm/in	1.5 / 0.06	1.5 / 0.06
	NEGATIVE IONIZER			YES	YES	
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	HIGH IMPACT POLYSTYRENE	
			COLOUR	IVORY	IVORY	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL	
			COLOUR	LIGHT GREY	LIGHT GREY	

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Component Data - Cooling Only (R410A)

MODEL	INDOOR UNIT		A5WM 10G	A5WM 15G		
	OUTDOOR UNIT		A5LC 10C	A5LC 15C		
INDOOR FAN	TYPE		ANTI FUNGUS SKEW FAN	ANTI FUNGUS SKEW FAN		
	QUANTITY		1	1		
	MATERIAL		ACRYLO NITRILE STYRENE	ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	97 / 3.8	97 / 3.8		
	LENGTH	mm/in	717.5 / 28.2	717.5 / 28.2		
INDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP24	IP24		
OUTDOOR FAN	TYPE		PROPELLER	PROPELLER		
	QUANTITY		1	1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	404 / 16	404 / 16		
OUTDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP24	IP24		
COMPRESSOR	TYPE		ROTARY HERMETIC	ROTARY HERMETIC		
	OIL TYPE		RB68A OR FREOL ALPHA68M	RB68A OR FREOL ALPHA68M		
	OIL AMOUNT	cm ³ / fl.oz.	350 / 12.3	430 / 15.1		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.234 / 2.516	0.234 / 2.516	
		ROW		2	2	
		FIN PER INCH		18	18	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	0.33 / 0.013	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (SLIT FIN)	
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004	
		FACE AREA	m ² /ft ²	0.36 / 3.94	0.36 / 3.94	
		ROW		1	1	
		FIN PER INCH		18	18	
AIR QUALITY	FILTER	TYPE		NANO FILTER	NANO FILTER	
		QUANTITY	pc	2	2	
		SIZE	LENGTH	mm/in	304 / 11.9	304 / 11.9
			WIDTH	mm/in	348 / 13.7	348 / 13.7
			THICKNESS	mm/in	1.5 / 0.06	1.5 / 0.06
	NEGATIVE IONIZER			YES	YES	
CASING	INDOOR UNIT	MATERIAL	HIGH IMPACT POLYSTYRENE	HIGH IMPACT POLYSTYRENE		
		COLOUR	IVORY	IVORY		
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL		
		COLOUR	LIGHT GREY	LIGHT GREY		

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Component Data - Cooling Only (R410A)

MODEL	INDOOR UNIT		A5WM 20G	A5WM 25G		
	OUTDOOR UNIT		A5LC 20C	A5LC 25C		
INDOOR FAN	TYPE		ANTI FUNGUS SKEW FAN	ANTI FUNGUS SKEW FAN		
	QUANTITY		1	1		
	MATERIAL		ACRYLO NITRILE STYRENE	ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	108 / 4.25	108 / 4.25		
	LENGTH	mm/in	810 / 31.9	810 / 31.9		
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 ACRYL STYRENE RESIN	GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	457.2 / 18	457.2 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP54	IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC	ROTARY HERMETIC		
	OIL TYPE		RB68A ORFREOL ALPHA68M	RB68A ORFREOL ALPHA68M		
	OIL AMOUNT	cm ³ / fl.oz.	670 / 23.5	1130 / 39.7		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.269 / 2.900	0.269 / 2.900	
		ROW		2	2	
		FIN PER INCH		18	18	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	ALUMINIUM (CORR. FIN)	
		THICKNESS	mm/in	0.127 / 0.005	0.127 / 0.005	
		FACE AREA	m ² /ft ²	0.51 / 5.47	0.62 / 6.64	
		ROW		2	2	
		FIN PER INCH		18	18	
AIR QUALITY	FILTER	TYPE		NANO FILTER	NANO FILTER	
		QUANTITY	pc	2	2	
		SIZE	LENGTH	mm/in	351/13.8	351/13.8
			WIDTH	mm/in	386 / 15.2	386 / 15.2
			THICKNESS	mm/in	1.5 / 0.06	1.5 / 0.06
	NEGATIVE IONIZER			YES	YES	
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	HIGH IMPACT POLYSTYRENE	
			COLOUR	IVORY	IVORY	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL	
			COLOUR	LIGHT GREY	LIGHT GREY	

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Component Data - Cooling Only (R410A)

MODEL	INDOOR UNIT		A5WM 311		
	OUTDOOR UNIT		A5LC 28C		
INDOOR FAN	TYPE		ANTI FUNGUS CROSS FLOW FAN		
	QUANTITY		1		
	MATERIAL		ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT		
	DIAMETER	mm/in	106 / 4.17		
	LENGTH	mm/in	950 / 37.4		
	INDOOR FAN MOTOR	TYPE		INDUCTION	
QUANTITY		1			
INDEX OF PROTECTION (IP)		IP24			
OUTDOOR FAN	TYPE		PROPELLER		
	QUANTITY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT		
	DIAMETER	mm/in	457.2 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC		
	OIL TYPE		RB68A ORFREOL ALPHA68M		
	OIL AMOUNT	cm ³ / fl.oz.	1130 / 39.7		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.30 / 3.23	
		ROW		2	
		FIN PER INCH		18	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	
		THICKNESS	mm/in	0.11/0.004	
		FACE AREA	m ² /ft ²	0.62 / 6.63	
		ROW		2	
		FIN PER INCH		18	
AIR QUALITY	FILTER	TYPE		SARANET + IONIZER	
		QUANTITY	pc	3 X 3	
		SIZE	LENGTH	mm/in	330 / 13.0
			WIDTH	mm/in	317 / 12.4
			THICKNESS	mm/in	1.8 / 0.07
	NEGATIVE IONIZER		NO		
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	
			COLOUR	IVORY	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	
			COLOUR	LIGHT GREY	

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Component Data - Heat Pump (R410A)

MODEL	INDOOR UNIT		A5WM 07GR	A5WM 09GR		
	OUTDOOR UNIT		A5LC 07CR	A5LC 10CR		
INDOOR FAN	TYPE		ANTI FUNGUS SKEW FAN	CROSS FLOW FAN		
	QUANTITY		1	1		
	MATERIAL		ACRYLO NITRILE STYRENE	ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	97 / 3.8	97 / 3.8		
	LENGTH	mm/in	617.5 / 24.3	617.5 / 24.3		
INDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP24	IP24		
OUTDOOR FAN	TYPE		PROPELLER	PROPELLER		
	QUANTITY		1	1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	356 / 14	356 / 14		
OUTDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP54	IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC	ROTARY HERMETIC		
	OIL TYPE		RB68A OR FREOL ALPHA68M	RB68A OR FREOL ALPHA68M		
	OIL AMOUNT	cm ³ / fl.oz.	300 / 10.5	350 / 12.3		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.201 / 2.161	0.201 / 2.161	
		ROW		2	2	
		FIN PER INCH		18	18	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	9.52 / 3/8	7.0 / 0.276	
		THICKNESS	mm/in	0.33 / 0.013	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	RAISE LANCE	
		THICKNESS	mm/in	0.11 / 0.004	0.1 / 0.004	
		FACE AREA	m ² /ft ²	0.31 / 3.40	0.193 / 2.112	
		ROW		1	1	
		FIN PER INCH		18	18	
AIR QUALITY	FILTER	TYPE		NANO FILTER	NANO FILTER	
		QUANTITY	pc	2	2	
		SIZE	LENGTH	mm/in	304 / 11.9	304 / 11.9
			WIDTH	mm/in	298 / 11.7	298 / 11.7
	THICKNESS	mm/in	1.5 / 0.06	1.5 / 0.06		
	NEGATIVE IONIZER			YES	YES	
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	HIGH IMPACT POLYSTYRENE	
			COLOUR	IVORY	IVORY	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL	
			COLOUR	LIGHT GREY	LIGHT GREY	

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

Component Data - Heat Pump (R410A)

MODEL	INDOOR UNIT		A5WM 10GR	A5WM 15GR		
	OUTDOOR UNIT		A5LC 10CR	A5LC 15CR		
INDOOR FAN	TYPE		ANTI FUNGUS SKEW FAN	CROSS FLOW FAN		
	QUANTITY		1	1		
	MATERIAL		ACRYLO NITRILE STYRENE	ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	97 / 3.8	97 / 3.8		
	LENGTH	mm/in	717.5 / 28.2	717.5 / 28.2		
INDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP24	IP24		
OUTDOOR FAN	TYPE		PROPELLER	PROPELLER		
	QUANTITY		1	1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	404 / 16	404 / 16		
OUTDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP54	IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC	ROTARY HERMETIC		
	OIL TYPE		RB68A OR FREOL ALPHA68M	RB68A OR FREOL ALPHA68M		
	OIL AMOUNT	cm ³ / fl.oz.	350 / 12.3	430 / 15.1		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.234 / 2.516	0.234 / 2.516	
		ROW		2	2	
		FIN PER INCH		18	18	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	9.52 / 3/8	
		THICKNESS	mm/in	0.28 / 0.011	0.33 / 0.013	
	FIN	MATERIAL		RAISE LANCE	ALUMINIUM (SLIT FIN)	
		THICKNESS	mm/in	0.1 / 0.004	0.11 / 0.004	
		FACE AREA	m ² /ft ²	0.36 / 3.94	0.36 / 3.94	
		ROW		1	1	
		FIN PER INCH		18	18	
AIR QUALITY	FILTER	TYPE		NANO FILTER	NANO FILTER	
		QUANTITY	pc	2	2	
		SIZE	LENGTH	mm/in	304 / 11.9	304 / 11.9
			WIDTH	mm/in	348 / 13.7	348 / 13.7
			THICKNESS	mm/in	1.5 / 0.06	1.5 / 0.06
	NEGATIVE IONIZER			YES	YES	
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	HIGH IMPACT POLYSTYRENE	
			COLOUR	IVORY	IVORY	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL	
			COLOUR	LIGHT GREY	LIGHT GREY	

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Component Data - Heat Pump (R410A)

MODEL	INDOOR UNIT		A5WM 20GR	A5WM 25GR		
	OUTDOOR UNIT		A5LC 20CR	A5LC 25CR		
INDOOR FAN	TYPE		CROSS FLOW FAN	CROSS FLOW FAN		
	QUANTITY		1	1		
	MATERIAL		ACRYLO NITRILE STYRENE	ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	108 / 4.25	108 / 4.25		
	LENGTH	mm/in	810 / 31.9	810 / 31.9		
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 ACRYL STYRENE RESIN	GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT	DIRECT		
	DIAMETER	mm/in	457.2/18	457.2/18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION	INDUCTION		
	QUANTITY		1	1		
	INDEX OF PROTECTION (IP)		IP54	IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC	ROTARY HERMETIC		
	OIL TYPE		RB68A OR FREOL ALPHA68M	RB68A OR FREOL ALPHA68M		
	OIL AMOUNT	cm ³ / fl.oz.	670 / 23.5	1130 / 39.7		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.269 / 2.900	0.269 / 2.900	
		ROW		2	2	
		FIN PER INCH		18	18	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		RAISE LANCE	RAISE LANCE	
		THICKNESS	mm/in	0.1 / 0.004	0.1 / 0.004	
		FACE AREA	m ² /ft ²	0.51 / 5.47	0.62 / 6.64	
		ROW		2	2	
		FIN PER INCH		18	18	
AIR QUALITY	FILTER	TYPE		NANO FILTER	NANO FILTER	
		QUANTITY	pc	2	2	
		SIZE	LENGTH	mm/in	351 / 13.8	351 / 13.8
			WIDTH	mm/in	386 / 15.2	386 / 15.2
			THICKNESS	mm/in	1.5 / 0.06	1.5 / 0.06
	NEGATIVE IONIZER			YES	YES	
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	HIGH IMPACT POLYSTYRENE	
			COLOUR	IVORY	IVORY	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	GALVANISED MILD STEEL	
			COLOUR	LIGHT GREY	LIGHT GREY	

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Component Data - Heat Pump (R410A)

MODEL	INDOOR UNIT		A5WM 301R		
	OUTDOOR UNIT		A5LC - 28CR		
INDOOR FAN	TYPE		ANTI FUNGUS CROSS FLOW FAN		
	QUANTITY		1		
	MATERIAL		ACRYLO NITRILE STYRENE		
	DRIVE		DIRECT		
	DIAMETER	mm/in	106 / 4.17		
	LENGTH	mm/in	950 / 37.4		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP24		
OUTDOOR FAN	TYPE		PROPELLER		
	QUANTITY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT		
	DIAMETER	mm/in	457.2/18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP54		
COMPRESSOR	TYPE		ROTARY HERMETIC		
	OIL TYPE		RB68A OR FREOL ALPHA68M		
	OIL AMOUNT	cm ³ / fl.oz.	1130 / 39.7		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.30 / 3.23	
		ROW		2	
		FIN PER INCH		18	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m ² /ft ²	0.62 / 6.63	
		ROW		2	
		FIN PER INCH		18	
AIR QUALITY	FILTER	TYPE		SARANET + IONIZER	
		QUANTITY	pc	3 X 3	
		SIZE	LENGTH	mm/in	330 / 13.0
		WIDTH	mm/in	317 / 12.4	
	THICKNESS	mm/in	1.8 / 0.07		
	NEGATIVE IONIZER		NO		
CASING	INDOOR UNIT	MATERIAL	HIGH IMPACT POLYSTYRENE		
		COLOUR	IVORY		
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL		
		COLOUR	LIGHT GREY		

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Performance Data

Interpolation and Extrapolation method can be used to get the total capacity, TC and sensible capacity, SC at those temperatures which are not stated out in the table.

Example:

Model: AWM 10G - ALC 10C

Indoor Condition: 23°C DB, 15°C WB

Outdoor Condition: 37°C DB

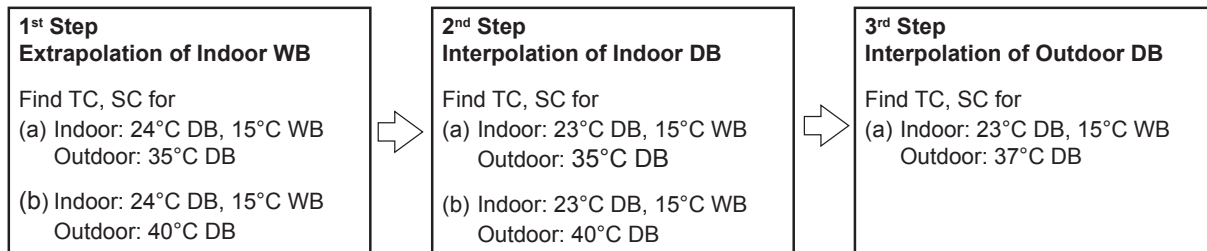
Solution:

Overall

Based on the Performance Table

1. Refer to the Indoor DB column,
 - **23°C** is located between 20°C and 24°C (Thus, Interpolation need to be applied)
2. Refer to the Indoor WB column,
 - **15°C** only available in the case of Indoor DB = 20°C. (Thus, Extrapolation between 16°C WB and 17°C WB during 24°C indoor DB is required)
3. Refer to the Outdoor DB column,
 - **37°C** is located between 35°C and 40°C. (Thus, Interpolation need to be applied)

Please follow the steps below in order to get the required capacity.



Calculation Steps

Details:

1st Step:

To obtain the Total capacity and Sensible capacity for

(a) **Indoor Condition:** 24°C DB, 15°C WB

Outdoor Condition: 35°C DB

Indoor DB °C	Indoor WB °C	Outdoor DB, °C		
		35		
		TC (kW)	SC (kW)	
		⋮	⋮	
24	15	x ₁	y ₁	
	16	2.623	1.892	
	17	2.687	1.794	

Total capacity, TC

⇒ x₁ = 2.558kW (Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 35°C Outdoor WB)*

Sensible capacity, SC

Extrapolation Method:

$$\Rightarrow \frac{17^\circ \text{C} - 15^\circ \text{C}}{17^\circ \text{C} - 16^\circ \text{C}} = \frac{1.794\text{kW} - y_1}{1.794\text{kW} - 1.892\text{kW}}$$

⇒ y₁ = 1.990kW

(b) **Indoor Condition:** 24°C DB, 15°C WB

Outdoor Condition: 40°C DB

Indoor DB °C	Indoor WB °C	Outdoor DB, °C		
		40		
		TC (kW)	SC (kW)	
		⋮	⋮	
24	15	x ₂	y ₂	
	16	2.429	1.728	
	17	2.502	1.653	

Total capacity, TC

⇒ x₂ = 2.355kW (Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 40°C Outdoor WB)*

Sensible capacity, SC

Extrapolation Method:

$$\Rightarrow \frac{17^\circ \text{C} - 15^\circ \text{C}}{17^\circ \text{C} - 16^\circ \text{C}} = \frac{1.653\text{kW} - y_2}{1.653\text{kW} - 1.728\text{kW}}$$

⇒ y₂ = 1.802kW

* This is due to 2 different conditions with same WB temperature, will have the same level of enthalpy. For more details, please refer to psychrometrics chart

2nd Step:

To obtain the Total capacity and Sensible capacity for

(a) Indoor Condition: 23°C DB, 15°C WB

Outdoor Condition: 35°C DB

Indoor DB °C	Indoor WB °C	Outdoor DB, °C		
		35		
			TC (kW)	SC (kW)
20	15		2.558	1.403
23	15		x_3	y_3
24	15		2.558	1.990

Total capacity, TC

$\Rightarrow x_3 = 2.558\text{kW}$ (Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 35°C Outdoor WB)*

Sensible capacity, SC

Interpolation Method:

$$\Rightarrow \frac{24^\circ\text{C} - 20^\circ\text{C}}{24^\circ\text{C} - 23^\circ\text{C}} = \frac{1.990\text{kW} - 1.181\text{kW}}{1.990\text{kW} - y_3}$$

$$\Rightarrow y_1 = 1.844\text{kW}$$

(b) Indoor Condition: 23°C DB, 15°C WB

Outdoor Condition: 40°C DB

Indoor DB °C	Indoor WB °C	Outdoor DB, °C		
		40		
			TC (kW)	SC (kW)
20	15		2.355	1.215
23	15		x_4	y_4
24	15		2.355	1.802

Total capacity, TC

$\Rightarrow x_4 = 2.355\text{kW}$ (Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 40°C Outdoor WB)*

Sensible capacity, SC

Interpolation Method:

$$\Rightarrow \frac{24^\circ\text{C} - 20^\circ\text{C}}{24^\circ\text{C} - 23^\circ\text{C}} = \frac{1.597\text{kW} - 0.963\text{kW}}{1.597\text{kW} - y_4}$$

$$\Rightarrow y_2 = 1.655\text{kW}$$

* This is due to 2 different conditions with same WB temperature, will have the same level of enthalpy. For more details, please refer to psychrometrics chart

3rd Step:

To obtain the Total capacity and Sensible capacity for

(a) Indoor Condition: 23°C DB, 15°C WB

Outdoor Condition: 37°C DB

Indoor DB °C	Indoor WB °C	Outdoor DB, °C					
		35		37		40	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
23	15	2.558	1.844	x	y	2.355	1.655

Total capacity, TC

Interpolation Method:

$$\Rightarrow \frac{40^\circ \text{C} - 35^\circ \text{C}}{40^\circ \text{C} - 37^\circ \text{C}} = \frac{2.355\text{kW} - 2.558\text{kW}}{2.355\text{kW} - x}$$

$$\Rightarrow x = 2.477\text{kW}$$

Sensible capacity, SC

Interpolation Method:

$$\Rightarrow \frac{40^\circ \text{C} - 35^\circ \text{C}}{40^\circ \text{C} - 37^\circ \text{C}} = \frac{1.655\text{kW} - 1.844\text{kW}}{1.655\text{kW} - y}$$

$$\Rightarrow y = 1.768\text{kW}$$

Cooling Only (R22)

Model: AWM 07G - ALC 07C

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	2.418	1.484	2.249	1.335	2.080	1.186	1.910	1.037	1.741	0.889	1.538	0.710
	16	2.453	1.349	2.286	1.221	2.119	1.094	1.952	0.966	1.785	0.839	1.585	0.686
24	16	2.453	1.799	2.286	1.671	2.119	1.544	1.952	1.416	1.785	1.288	1.585	1.135
	17	2.488	1.664	2.323	1.558	2.159	1.451	1.994	1.346	1.829	1.239	1.632	1.111
	18	2.523	1.529	2.360	1.444	2.198	1.359	2.036	1.274	1.873	1.189	1.679	1.087
	19	2.557	1.394	2.397	1.331	2.237	1.267	2.077	1.203	1.917	1.139	1.725	1.062
	20	2.593	1.259	2.437	1.210	2.281	1.162	2.126	1.113	1.970	1.064	1.783	1.006
28	18	2.523	1.979	2.360	1.894	2.198	1.809	2.036	1.724	1.873	1.638	1.679	1.536
	19	2.557	1.844	2.397	1.780	2.237	1.716	2.077	1.652	1.917	1.589	1.725	1.512
	20	2.593	1.709	2.437	1.660	2.281	1.611	2.126	1.563	1.970	1.514	1.783	1.456
	21	2.628	1.573	2.478	1.535	2.328	1.498	2.179	1.460	2.029	1.423	1.849	1.378
	22	2.663	1.437	2.519	1.411	2.375	1.384	2.231	1.358	2.087	1.332	1.915	1.300
	23	2.699	1.301	2.560	1.286	2.422	1.271	2.284	1.256	2.146	1.241	1.980	1.223
	24	2.734	1.165	2.602	1.161	2.469	1.157	2.337	1.154	2.205	1.150	2.046	1.145
30	20	2.593	1.934	2.437	1.885	2.281	1.836	2.126	1.788	1.970	1.739	1.783	1.680
	21	2.628	1.798	2.478	1.760	2.328	1.723	2.179	1.685	2.029	1.648	1.849	1.603
	22	2.663	2.008	2.519	1.636	2.375	1.609	2.231	1.583	2.087	1.557	1.915	1.525
	23	2.699	1.839	2.560	1.511	2.422	1.496	2.284	1.481	2.146	1.466	1.980	1.448
	24	2.734	1.670	2.602	1.386	2.469	1.382	2.337	1.379	2.205	1.375	2.046	1.370

Model: AWM 09G - ALC 09C

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	3.034	1.916	2.829	1.742	2.623	1.568	2.418	1.393	2.213	1.219	1.966	1.010
	16	3.114	1.748	2.903	1.597	2.692	1.445	2.480	1.294	2.269	1.142	2.016	0.961
24	16	3.114	2.257	2.903	2.105	2.692	1.954	2.480	1.802	2.269	1.651	2.016	1.469
	17	3.194	2.088	2.977	1.960	2.760	1.831	2.543	1.703	2.326	1.574	2.065	1.420
	18	3.274	1.920	3.051	1.815	2.828	1.709	2.605	1.603	2.382	1.497	2.115	1.371
	19	3.354	1.752	3.125	1.669	2.896	1.586	2.668	1.504	2.439	1.421	2.164	1.321
	20	3.435	1.583	3.205	1.519	2.976	1.454	2.747	1.389	2.517	1.324	2.242	1.246
28	18	3.274	2.429	3.051	2.323	2.828	2.217	2.605	2.112	2.382	2.006	2.115	1.879
	19	3.354	2.261	3.125	2.178	2.896	2.095	2.686	2.012	2.439	1.929	2.164	1.830
	20	3.435	2.092	3.205	2.027	2.976	1.962	2.747	1.897	2.517	1.833	2.242	1.755
	21	3.516	1.923	3.289	1.873	3.063	1.823	2.837	1.773	2.611	1.723	2.339	1.663
	22	3.597	1.754	3.374	1.719	3.150	1.683	2.927	1.648	2.704	1.613	2.436	1.571
	23	3.678	1.585	3.458	1.564	3.238	1.544	3.018	1.524	2.798	1.503	2.533	1.479
	24	3.759	1.416	3.542	1.410	3.325	1.404	3.108	1.399	2.891	1.393	2.631	1.387
30	20	3.435	2.346	3.205	2.281	2.976	2.216	2.747	2.152	2.517	2.087	2.242	2.009
	21	3.516	2.177	3.289	2.127	3.063	2.077	2.837	2.027	2.611	1.977	2.339	1.917
	22	3.597	2.008	3.374	1.973	3.150	1.938	2.927	1.902	2.704	1.867	2.436	1.825
	23	3.678	1.839	3.458	1.819	3.238	1.798	3.018	1.778	2.798	1.757	2.533	1.733
	24	3.759	1.670	3.542	1.664	3.325	1.659	3.108	1.653	2.891	1.648	2.631	1.641

Cooling Only (R22)

Model: AWM 10G - ALC 10C

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	3.169	1.968	2.966	1.780	2.762	1.592	2.558	1.403	2.355	1.215	2.111	0.989
	16	3.206	1.800	3.012	1.635	2.817	1.470	2.623	1.306	2.429	1.141	2.195	0.943
24	16	3.206	2.386	3.012	2.222	2.817	2.057	2.623	1.892	2.429	1.728	2.195	1.530
	17	3.243	2.218	3.058	2.077	2.872	1.936	2.687	1.794	2.502	1.653	2.280	1.484
	18	3.280	2.049	3.104	1.932	2.928	1.814	2.752	1.697	2.576	1.579	2.364	1.438
	19	3.317	1.881	3.150	1.787	2.983	1.693	2.816	1.599	2.649	1.505	2.449	1.392
	20	3.353	1.711	3.193	1.635	3.033	1.559	2.873	1.483	2.713	1.407	2.521	1.315
28	18	3.280	2.636	3.104	2.518	2.928	2.401	2.752	2.283	2.576	2.166	2.364	2.025
	19	3.317	2.467	3.150	2.373	2.983	2.279	2.816	2.186	2.649	2.092	2.449	1.979
	20	3.353	2.298	3.193	2.222	3.033	2.146	2.873	2.070	2.713	1.993	2.521	1.902
	21	3.389	2.128	3.235	2.066	3.080	2.004	2.925	1.942	2.771	1.879	2.585	1.805
	22	3.426	1.959	3.276	1.910	3.127	1.862	2.978	1.814	2.828	1.765	2.649	1.707
	23	3.462	1.789	3.318	1.754	3.174	1.720	3.030	1.686	2.886	1.651	2.713	1.610
	24	3.499	1.619	3.360	1.599	3.221	1.578	3.082	1.558	2.943	1.537	2.776	1.513
30	20	3.353	2.591	3.193	2.515	3.033	2.439	2.873	2.363	2.713	2.287	2.521	2.195
	21	3.389	2.422	3.235	2.359	3.080	2.297	2.925	2.235	2.771	2.173	2.585	2.098
	22	3.426	2.252	3.276	2.204	3.127	2.155	2.978	2.107	2.828	2.059	2.649	2.001
	23	3.462	2.082	3.318	2.048	3.174	2.013	3.030	1.979	2.886	1.945	2.713	1.903
	24	3.499	1.912	3.360	1.892	3.221	1.872	3.082	1.851	2.943	1.831	2.776	1.806

Model: AWM 15G - ALC 15C

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	4.051	2.628	3.785	2.373	3.519	2.118	3.253	1.863	2.987	1.608	2.668	1.302
	16	4.086	2.387	3.834	2.156	3.582	1.925	3.330	1.694	3.078	1.464	2.776	1.186
24	16	4.086	3.056	3.834	2.825	3.582	2.594	3.330	2.363	3.078	2.133	2.776	1.855
	17	4.120	2.815	3.882	2.608	3.645	2.402	3.407	2.195	3.169	1.988	2.884	1.740
	18	4.155	2.574	3.931	2.392	3.707	2.209	3.484	2.026	3.260	1.843	2.991	1.624
	19	4.189	2.333	3.980	2.175	3.770	2.016	3.560	1.858	3.351	1.699	3.099	1.509
	20	4.223	2.093	4.025	1.961	3.826	1.830	3.627	1.699	3.428	1.568	3.190	1.410
28	18	4.155	3.243	3.931	3.061	3.707	2.878	3.484	2.695	3.260	2.513	2.991	2.293
	19	4.189	3.002	3.980	2.844	3.770	2.685	3.560	2.527	3.351	2.368	3.099	2.178
	20	4.223	2.762	4.025	2.631	3.826	2.499	3.627	2.368	3.428	2.237	3.190	2.079
	21	4.257	2.521	4.067	2.420	3.877	2.318	3.687	2.216	3.498	2.115	3.270	1.993
	22	4.291	2.281	4.110	2.209	3.929	2.137	3.748	2.065	3.567	1.993	3.349	1.906
	23	4.325	2.041	4.153	1.998	3.980	1.956	3.808	1.913	3.636	1.871	3.429	1.819
	24	4.359	1.801	4.195	1.788	4.032	1.775	3.868	1.761	3.705	1.748	3.508	1.733
30	20	4.223	3.096	4.025	2.965	3.826	2.834	3.627	2.703	3.428	2.571	3.190	2.414
	21	4.257	2.856	4.067	2.754	3.877	2.653	3.687	2.551	3.498	2.449	3.270	2.327
	22	4.291	2.616	4.110	2.544	3.929	2.471	3.748	2.399	3.567	2.327	3.349	2.241
	23	4.325	2.375	4.153	2.333	3.980	2.290	3.808	2.248	3.636	2.205	3.429	2.154
	24	4.359	2.135	4.195	2.122	4.032	2.109	3.868	2.096	3.705	2.083	3.508	2.067

Cooling Only (R22)

Model: AWM 20G - ALC 18C

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	5.954	3.645	5.566	3.311	5.179	2.977	4.791	2.642	4.404	2.308	3.939	1.907
	16	6.132	3.309	5.730	3.009	5.329	2.709	4.927	2.409	4.525	2.109	4.043	1.749
24	16	6.132	4.352	5.730	4.052	5.329	3.752	4.927	3.451	4.525	3.151	4.043	2.791
	17	6.310	4.016	5.894	3.750	5.478	3.484	5.062	3.218	4.646	2.952	4.147	2.633
	18	6.488	3.680	6.058	3.448	5.628	3.216	5.198	2.985	4.767	2.753	4.251	2.475
	19	6.667	3.344	6.222	3.147	5.778	2.949	5.333	2.751	4.888	2.554	4.355	2.317
	20	6.846	3.008	6.397	2.846	5.947	2.684	5.498	2.521	5.049	2.359	4.510	2.164
28	18	6.488	4.723	6.058	4.491	5.628	4.259	5.198	4.027	4.767	3.795	4.251	3.517
	19	6.667	4.387	6.222	4.189	5.778	3.991	5.333	3.794	4.888	3.596	4.355	3.359
	20	6.846	4.051	6.397	3.889	5.947	3.726	5.498	3.564	5.049	3.401	4.510	3.206
	21	7.026	3.715	6.578	3.589	6.131	3.462	5.683	3.336	5.235	3.209	4.698	3.058
	22	7.206	3.380	6.760	3.289	6.314	3.199	5.868	3.108	5.422	3.017	4.886	2.909
	23	7.386	3.044	6.942	2.989	6.497	2.935	6.053	2.880	5.608	2.826	5.075	2.60
	24	7.567	2.708	7.124	2.689	6.681	2.671	6.238	2.652	5.795	2.634	5.263	2.611
30	20	6.846	4.572	6.397	4.410	5.947	4.247	5.498	4.085	5.049	3.923	4.510	3.728
	21	7.026	4.236	6.578	4.110	6.131	3.984	5.683	3.857	5.235	3.731	4.698	3.579
	22	7.206	3.901	6.760	3.810	6.314	3.720	5.868	3.629	5.422	3.539	4.886	3.430
	23	7.386	3.565	6.942	3.511	6.497	3.456	6.053	3.401	5.608	3.347	5.075	3.281
	24	7.567	3.229	7.124	3.211	6.681	3.192	6.238	3.174	5.795	3.155	5.263	3.133

Model: AWM 20G - ALC 20C

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	5.778	3.640	5.473	3.396	5.169	3.153	4.864	2.909	4.559	2.666	4.194	2.373
	16	6.026	3.334	5.701	3.125	5.376	2.917	5.051	2.709	4.726	2.501	4.336	2.251
24	16	6.026	4.248	5.701	4.040	5.376	3.832	5.051	3.624	4.726	3.416	4.336	3.166
	17	6.274	3.942	5.929	3.770	5.583	3.597	5.238	3.424	4.892	3.252	4.478	3.044
	18	6.523	3.636	6.157	3.499	5.791	3.362	5.425	3.224	5.059	3.087	4.620	2.922
	19	6.771	3.330	6.384	3.228	5.998	3.126	5.612	3.025	5.225	2.923	4.762	2.800
	20	7.019	3.023	6.614	2.947	6.210	2.870	5.805	2.794	5.400	2.718	4.915	2.626
28	18	6.523	4.551	6.157	4.414	5.791	4.276	5.425	4.139	5.059	4.002	4.620	3.837
	19	6.771	4.245	6.384	4.143	5.998	4.041	5.612	3.939	5.225	3.837	4.762	3.715
	20	7.019	3.938	6.614	3.861	6.210	3.785	5.805	3.709	5.400	3.633	4.915	3.514
	21	7.268	3.630	6.846	3.572	6.424	3.515	6.003	3.458	5.581	3.401	5.075	3.332
	22	7.516	3.321	7.077	3.283	6.639	3.245	6.200	3.207	5.761	3.169	5.235	3.123
	23	7.765	3.013	7.309	2.994	6.853	2.975	6.398	2.956	5.942	2.937	5.395	2.914
	24	8.013	2.705	7.541	2.705	7.068	2.705	6.595	2.705	6.123	2.705	5.556	2.705
30	20	7.019	4.395	6.614	4.319	6.210	4.242	5.805	4.166	5.400	4.090	4.915	3.998
	21	7.268	4.087	6.846	4.030	6.424	3.973	6.003	3.915	5.581	3.858	5.075	3.789
	22	7.516	3.779	7.077	3.741	6.639	3.703	6.200	3.664	5.761	3.626	5.235	3.581
	23	7.765	3.471	7.309	3.452	6.853	3.433	6.398	3.414	5.942	3.394	5.395	3.372
	24	8.013	3.163	7.541	3.163	7.068	3.163	6.595	3.163	6.123	3.163	5.556	3.163

Cooling Only (R22)

Model: AWM 25G - ALC 25C

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	7.657	5.145	7.196	4.692	6.735	4.238	6.275	3.785	5.814	3.331	5.261	2.787
	16	7.728	4.693	7.300	4.280	6.873	3.867	6.446	3.454	6.019	3.042	5.507	2.546
24	16	7.728	5.852	7.300	5.439	6.873	5.026	6.446	4.614	60.19	4.201	5.507	3.705
	17	7.798	5.400	7.405	5.028	7.011	4.656	6.618	4.283	6.224	3.911	5.752	3.464
	18	7.869	4.948	7.509	4.617	7.149	4.285	6.789	3.953	6.430	3.621	5.998	3.223
	19	7.940	4.496	7.613	4.205	7.287	3.914	6.961	3.623	6.635	3.332	6.243	2.982
	20	8.008	4.045	7.701	3.803	7.394	3.560	7.086	3.318	6.779	3.075	6.410	2.784
28	18	7.869	6.107	7.509	5.776	7.149	5.444	6.789	5.112	6.430	4.781	5.998	4.383
	19	7.940	5.655	7.613	5.364	7.287	5.073	6.961	4.782	6.635	4.491	6.243	4.142
	20	8.008	5.205	7.701	4.962	7.394	4.720	7.086	4.477	6.779	4.235	6.410	3.944
	21	8.076	4.754	7.778	4.566	7.479	4.377	7.181	4.189	6.883	4.000	6.525	3.774
	22	8.144	4.304	7.855	4.169	7.565	4.035	7.276	3.900	6.986	3.766	6.639	3.604
	23	8.212	3.854	7.931	3.773	7.651	3.693	7.370	3.612	7.090	3.532	6.754	3.435
	24	8.279	3.403	8.008	3.377	7.737	3.350	7.465	3.324	7.194	3.297	6.868	3.265
30	20	8.008	5.784	7.701	5.542	7.394	5.299	7.086	5.057	6.779	4.814	6.410	4.523
	21	8.076	5.334	7.778	5.145	7.479	4.957	7.181	4.768	6.883	4.580	6.525	4.354
	22	8.144	4.883	7.855	4.749	7.565	4.614	7.276	4.480	6.986	4.345	6.639	4.184
	23	8.212	4.433	7.931	4.353	7.651	4.272	7.370	4.192	7.090	4.111	6.754	4.015
	24	8.279	3.983	8.008	3.956	7.737	3.930	7.465	3.903	7.194	3.877	6.868	3.845

Model: AWM 301 - ALC 28C

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	7.657	5.145	7.196	4.692	6.735	4.238	6.275	3.785	5.814	3.331	5.261	2.787
	16	7.728	4.693	7.300	4.280	6.873	3.867	6.446	3.454	6.019	3.042	5.507	2.546
24	16	7.728	5.852	7.300	5.439	6.873	5.026	6.446	4.614	6.019	4.201	5.507	3.705
	17	7.798	5.400	7.405	5.028	7.011	4.656	6.618	4.283	6.224	3.911	5.752	3.464
	18	7.869	4.948	7.509	4.617	7.149	4.285	6.789	3.953	6.430	3.621	5.998	3.223
	19	7.940	4.496	7.613	4.205	7.287	3.914	6.961	3.623	6.635	3.332	6.243	2.982
	20	8.008	4.045	7.701	3.803	7.394	3.560	7.086	3.318	6.779	3.075	6.410	2.784
28	18	7.869	6.107	7.509	5.776	7.149	5.444	6.789	5.112	6.430	4.781	5.998	4.383
	19	7.940	5.655	7.613	5.364	7.287	5.073	6.961	4.782	6.635	4.491	6.243	4.142
	20	8.008	5.205	7.701	4.962	7.394	4.720	7.086	4.477	6.779	4.235	6.410	3.944
	21	8.076	4.754	7.778	4.566	7.479	4.377	7.181	4.189	6.883	4.000	6.525	3.774
	22	8.144	4.304	7.855	4.169	7.565	4.035	7.276	3.900	6.986	3.766	6.639	3.604
	23	8.212	3.854	7.931	3.773	7.651	3.693	7.370	3.612	7.090	3.532	6.754	3.435
	24	8.279	3.403	8.008	3.377	7.737	3.350	7.465	3.324	7.194	3.297	6.868	3.265
30	20	8.008	5.784	7.701	5.542	7.394	5.299	7.086	5.057	6.779	4.814	6.410	4.523
	21	8.076	5.334	7.778	5.145	7.479	4.957	7.181	4.768	6.883	4.580	6.525	4.354
	22	8.144	4.883	7.855	4.749	7.565	4.614	7.276	4.480	6.986	4.345	6.639	4.184
	23	8.212	4.433	7.931	4.353	7.651	4.272	7.370	4.192	7.090	4.111	6.754	4.015
	24	8.279	3.983	8.008	3.956	7.737	3.930	7.465	3.903	7.194	3.877	6.868	3.845

Heat Pump (R22)

Model: AWM 09GR - ALC 09CR

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	3.163	2.063	2.934	1.852	2.705	1.641	2.476	1.430	2.247	1.219	1.972	0.966
	16	3.205	1.896	2.978	1.704	2.752	1.513	2.525	1.322	2.299	1.130	2.027	0.901
24	16	3.205	2.420	2.978	2.228	2.752	2.037	2.525	1.846	2.299	1.654	2.027	1.425
	17	3.246	2.252	3.022	2.081	2.798	1.909	2.574	1.737	2.351	1.565	2.082	1.359
	18	3.287	2.085	3.066	1.933	2.845	1.781	2.624	1.629	2.402	1.476	2.137	1.294
	19	3.29	1.918	3.110	1.785	2.891	1.653	2.673	1.520	2.454	1.388	2.192	1.228
	20	3.370	1.750	3.158	1.637	2.947	1.524	2.735	1.410	2.523	1.297	2.268	1.161
28	18	3.287	2.609	3.066	2.457	2.845	2.305	2.624	2.153	2.402	2.001	2.137	1.818
	19	3.329	2.442	3.110	2.309	2.891	2.177	2.673	2.044	2.454	1.912	2.192	1.752
	20	3.370	2.274	3.158	2.161	2.947	2.048	2.735	1.934	2.523	1.821	2.268	1.685
	21	3.413	2.107	3.2140	2.012	3.007	1.918	2.805	1.823	2.602	1.729	2.359	1.615
	22	3.455	1.939	3.261	1.864	3.068	1.788	2.875	1.713	2.681	1.637	2.449	1.546
	23	3.479	1.772	3.313	1.715	3.129	1.658	2.945	1.602	2.761	1.545	2.540	1.477
	24	3.539	1.605	3.364	1.567	3.190	1.529	3.015	1.491	2.840	1.453	2.631	1.408
30	20	3.370	2.536	3.158	2.423	2.947	2.310	2.735	2.196	2.523	2.083	2.268	1.947
	21	3.413	2.369	3.210	2.274	3.007	2.180	2.805	2.085	2.602	1.991	2.359	1.877
	22	3.455	2.201	3.261	2.126	3.068	2.050	2.875	1.975	2.681	1.899	2.449	1.808
	23	3.479	2.034	3.313	1.977	3.129	1.921	2.945	1.864	2.761	1.807	2.540	1.739
	24	3.539	1.867	3.364	1.829	3.190	1.791	3.015	1.753	2.840	1.715	2.631	1.670

Model: AWM 09GR - ALC 09CR

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	1.181	1.181	1.471	1.471	1.568	1.568	2.630	2.630	3.210	3.210	3.500	3.500	3.790	3.790
17	1.154	1.154	1.442	1.442	1.538	1.538	2.591	2.591	3.123	3.123	3.402	3.402	3.682	3.682
19	1.126	1.126	1.413	1.413	1.508	1.508	2.552	2.552	3.035	3.035	3.305	3.305	3.574	3.574
21	1.098	1.098	1.383	1.383	1.479	1.479	2.512	2.512	2.948	2.948	3.207	3.207	3.466	3.466
23	1.094	1.094	1.360	1.360	1.449	1.449	2.416	2.416	2.860	2.860	3.110	3.110	3.359	3.359
25	1.090	1.090	1.337	1.337	1.419	1.419	2.320	2.320	2.773	2.773	3.012	3.012	3.251	3.251
27	1.086	1.086	1.314	1.314	1.389	1.389	2.224	2.224	2.686	2.686	2.914	2.914	3.143	3.143
FROST REGION														

Heat Pump (R22)

Model: AWM 10GR - ALC 10CR

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	3.169	1.968	2.966	1.780	2.762	1.592	2.558	1.403	2.355	1.215	2.111	0.989
	16	3.206	1.800	3.012	1.635	2.817	1.470	2.623	1.306	2.429	1.141	2.195	0.943
24	16	3.206	2.386	3.012	2.222	2.817	2.057	2.623	1.892	2.429	1.728	2.195	1.530
	17	3.243	2.218	3.058	2.077	2.872	1.936	2.687	1.794	2.502	1.653	2.280	1.484
	18	3.280	2.049	3.104	1.932	2.928	1.814	2.752	1.697	2.576	1.579	2.364	1.438
	19	3.317	1.881	3.150	1.787	2.983	1.693	2.816	1.599	2.649	1.505	2.449	1.392
	20	3.353	1.711	3.193	1.635	3.033	1.559	2.873	1.483	2.713	1.407	2.521	1.315
28	18	3.280	2.636	3.104	2.518	2.928	2.401	2.752	2.283	2.576	2.166	2.364	2.025
	19	3.317	2.467	3.150	2.373	2.983	2.279	2.816	2.186	2.649	2.092	2.449	1.979
	20	3.353	2.298	3.193	2.222	3.033	2.146	2.873	2.070	2.713	1.933	2.521	1.902
	21	3.389	2.128	3.235	2.066	3.080	2.004	2.925	1.942	2.771	1.879	2.585	1.805
	22	3.426	1.959	3.276	1.910	3.127	1.862	2.978	1.814	2.828	1.765	2.649	1.707
	23	3.462	1.789	3.318	1.754	3.174	1.720	3.030	1.686	2.886	1.651	2.713	1.610
	24	3.499	1.619	3.360	1.599	3.221	1.578	3.082	1.558	2.943	1.537	2.776	1.513
30	20	3.353	2.591	3.193	2.515	3.033	2.439	2.873	2.363	2.713	2.287	2.521	2.195
	21	3.389	2.422	3.235	2.359	3.080	2.297	2.925	2.235	2.771	2.173	2.585	2.098
	22	3.426	2.252	3.276	2.204	3.127	2.155	2.978	2.107	2.828	2.059	2.649	2.001
	23	3.462	2.082	3.318	2.048	3.174	2.013	3.033	1.979	2.886	1.945	2.713	1.903
	24	3.499	1.912	3.360	1.892	3.221	1.872	3.082	1.851	2.943	1.831	2.776	1.806

Model: AWM 10GR - ALC 10CR

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	1.274	1.274	1.577	1.577	1.678	1.678	2.789	2.789	3.395	3.395	3.698	3.698	4.001	4.001
17	1.246	1.246	1.546	1.546	1.646	1.646	2.743	2.743	3.302	3.302	3.595	3.595	3.887	3.887
19	1.219	1.219	1.516	1.516	1.615	1.615	2.697	2.697	3.210	3.210	3.492	3.492	3.773	3.773
21	1.191	1.191	1.485	1.485	1.583	1.583	2.652	2.652	3.118	3.118	3.388	3.388	3.659	3.659
23	1.184	1.184	1.460	1.460	1.551	1.551	2.554	2.554	3.025	3.025	3.285	3.285	3.546	3.546
25	1.178	1.178	1.434	1.434	1.520	1.520	2.457	2.457	2.933	2.933	3.182	3.182	3.432	3.432
27	1.172	1.172	1.409	1.409	1.488	1.488	2.359	2.359	2.841	2.841	3.079	3.079	3.318	3.318
FROST REGION														

Heat Pump (R22)

Model: AWM 15GR - ALC 15CR

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	3.852	2.383	3.608	2.179	3.365	1.974	3.121	1.769	2.877	1.564	2.584	1.318
	16	4.062	2.259	3.784	2.056	3.506	1.852	3.228	1.648	2.950	1.445	2.616	1.201
24	16	4.062	2.917	3.784	2.713	3.506	2.510	3.228	2.306	2.950	2.103	2.616	1.858
	17	4.271	2.793	3.959	2.590	3.647	2.388	3.335	2.186	3.022	1.983	2.647	1.741
	18	4.481	2.668	4.134	2.467	3.788	2.266	3.441	2.065	3.095	1.864	2.679	1.623
	19	4.691	2.554	4.310	2.344	3.929	2.145	3.548	1.945	3.168	1.745	2.711	1.505
	20	4.902	2.421	4.503	2.227	4.103	2.034	3.704	1.841	3.305	1.648	2.826	1.416
28	18	4.481	3.326	4.134	3.125	3.788	2.924	3.441	2.723	3.095	2.522	2.679	2.281
	19	4.691	3.202	4.310	3.002	3.929	2.803	3.548	2.603	3.168	2.403	2.711	2.163
	20	4.902	3.078	4.503	2.885	4.103	2.692	3.704	2.499	3.305	2.306	2.826	2.074
	21	5.115	2.955	4.707	2.773	4.300	2.590	3.893	2.407	3.485	2.224	2.996	2.005
	22	5.328	2.832	4.912	2.660	4.497	2.487	4.081	2.315	3.666	2.142	3.167	1.935
	23	5.540	2.709	5.117	2.547	4.693	2.385	4.270	2.222	3.846	2.060	3.338	1.866
	24	5.753	2.586	5.321	2.434	4.890	2.282	4.458	2.130	4.026	1.978	3.508	1.796
30	20	4.902	3.407	4.503	3.214	4.103	3.021	3.704	2.828	3.305	2.635	2.826	2.403
	21	5.115	3.284	4.707	3.101	4.300	2.919	3.893	2.736	3.485	2.553	2.996	2.334
	22	5.328	3.161	4.912	2.989	4.497	2.816	4.081	2.644	3.666	2.471	3.167	2.264
	23	5.540	3.038	5.117	2.876	4.693	2.714	4.270	2.551	3.846	2.389	3.338	2.195
	24	5.753	2.915	5.321	2.763	4.890	2.611	4.458	2.459	4.026	2.307	3.508	2.125

Model: AWM 15GR - ALC 15CR

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	1.533	1.533	1.925	1.925	2.055	2.055	3.489	3.489	4.271	4.271	4.662	4.662	5.503	5.053
17	1.494	1.494	1.885	1.885	2.016	2.016	3.442	3.442	4.154	4.154	4.531	4.531	4.909	4.909
19	1.454	1.454	1.846	1.846	1.976	1.976	3.396	3.396	4.038	4.038	4.401	4.401	4.765	4.765
21	1.414	1.414	1.806	1.806	1.937	1.937	3.350	3.350	3.921	3.921	4.271	4.271	4.621	4.621
23	1.413	1.413	1.776	1.776	1.898	1.898	3.215	3.215	3.805	3.805	4.141	4.141	4.478	4.478
25	1.411	1.411	1.746	1.746	1.858	1.858	3.081	3.081	3.688	3.688	4.011	4.011	4.334	4.334
27	1.409	1.409	1.717	1.717	1.819	1.819	2.946	2.946	3.572	3.572	3.881	3.881	4.190	4.190
FROST REGION														

Heat Pump (R22)

Model: AWM 20GR - ALC 18CR

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	5.954	3.645	5.566	3.311	5.179	2.977	4.791	2.642	4.404	2.308	3.939	1.907
	16	6.132	3.309	5.730	3.009	5.329	2.709	4.927	2.409	4.525	2.109	4.043	1.749
24	16	6.132	4.352	5.730	4.052	5.329	3.752	4.927	3.451	4.525	3.151	4.043	2.791
	17	6.310	4.016	5.894	3.750	5.478	3.484	5.062	3.218	4.646	2.952	4.147	2.633
	18	6.488	3.680	6.058	3.448	5.628	3.216	5.198	2.985	4.767	2.753	4.251	2.475
	19	6.667	3.344	6.222	3.147	5.778	3.949	5.333	2.751	4.888	2.554	4.355	2.317
	20	6.846	3.008	6.397	2.846	5.947	2.684	5.498	2.251	5.049	2.359	4.510	2.164
28	18	6.488	4.723	6.058	4.491	5.628	4.529	5.198	4.027	4.767	3.795	4.251	3.517
	19	6.667	4.387	6.222	4.189	5.778	3.991	5.333	3.794	4.888	3.596	4.355	3.359
	20	6.846	4.051	6.397	3.889	5.947	3.726	5.498	3.564	5.049	3.401	4.510	3.206
	21	7.026	3.715	6.578	3.589	6.131	3.462	5.683	3.336	5.235	3.209	4.698	3.058
	22	7.026	3.380	6.760	3.289	6.314	3.199	5.868	3.108	5.422	3.017	4.886	2.909
	23	7.386	3.044	6.942	2.989	6.497	2.935	6.053	2.880	5.608	2.826	5.075	2.760
	24	7.567	2.708	7.124	2.689	6.681	2.671	6.238	2.652	5.795	2.634	5.263	2.611
30	20	6.846	4.572	6.397	4.410	5.947	4.247	5.498	4.085	5.049	3.923	4.510	3.728
	21	7.026	4.236	6.578	4.110	6.131	3.984	5.683	3.857	5.235	3.731	4.698	3.579
	22	7.206	3.901	6.760	3.810	6.314	3.720	5.868	3.629	5.422	3.539	4.886	3.430
	23	7.386	3.565	6.942	3.511	6.497	3.456	6.053	3.401	5.608	3.347	5.075	3.281
	24	7.567	3.229	7.124	3.211	6.681	3.192	6.238	3.174	5.795	3.155	5.263	3.133

Model: AWM 20GR - ALC 18CR

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	2.593	2.593	3.146	3.146	3.330	3.330	5.359	5.359	6.465	6.465	7.018	7.018	7.572	7.572
17	2.552	2.552	3.090	3.090	3.269	3.269	5.285	5.285	6.290	6.290	6.823	6.823	7.356	7.356
19	2.512	2.512	3.034	3.034	3.208	3.208	5.210	5.210	6.115	6.115	6.623	6.628	7.141	7.141
21	2.471	2.471	2.978	2.978	3.147	3.147	5.136	5.136	5.940	5.940	6.433	6.433	6.926	6.926
23	2.443	2.443	2.925	2.925	3.085	3.085	4.937	4.937	5.765	5.765	6.238	6.238	6.710	6.710
25	2.415	2.415	2.872	2.872	3.024	3.024	4.738	4.738	5.590	5.590	6.042	6.042	6.495	6.495
27	2.387	2.387	2.819	2.819	2.963	2.963	4.540	4.540	5.415	5.415	5.847	5.847	6.280	6.280
FROST REGION														

Heat Pump (R22)

Model: AWM 20GR - ALC 20CR

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	5.778	3.640	5.473	3.396	5.169	3.153	4.864	2.909	4.559	2.666	4.194	2.373
	16	6.026	3.334	5.701	3.125	5.376	2.917	5.051	2.709	4.726	2.501	4.336	2.251
24	16	6.026	4.248	5.701	4.040	5.376	3.832	5.051	3.624	4.726	3.416	4.336	3.166
	17	6.274	3.942	5.929	3.770	5.583	3.597	5.238	3.424	4.892	3.252	4.478	3.044
	18	6.523	3.636	6.157	3.499	5.791	3.362	5.425	3.224	5.059	3.087	4.620	2.922
	19	6.771	3.330	6.384	3.228	5.998	3.126	5.612	3.025	5.225	2.923	4.762	2.800
	20	7.019	3.023	6.614	2.947	6.210	2.870	5.805	2.794	5.400	2.713	4.915	2.626
28	18	6.523	4.551	6.157	4.414	5.791	4.276	5.425	4.139	5.059	4.002	4.620	3.837
	19	6.771	4.245	6.384	4.143	5.998	4.041	5.612	3.939	5.225	3.837	4.762	3.715
	20	7.019	3.938	6.614	3.861	6.210	3.785	5.805	3.709	5.400	3.633	4.915	3.541
	21	7.268	3.630	6.846	3.572	6.424	3.515	6.003	3.458	5.581	3.401	5.075	3.332
	22	7.516	3.321	7.077	3.283	6.639	3.245	6.200	3.207	5.761	3.169	5.235	3.123
	23	7.765	3.013	7.309	2.994	6.853	2.975	6.398	2.956	5.942	2.937	5.395	2.914
	24	8.013	2.705	7.541	2.705	7.068	2.705	6.595	2.705	6.123	2.705	5.556	2.705
30	20	7.019	4.395	6.614	4.319	6.210	4.242	5.805	4.166	5.400	4.090	4.915	3.998
	21	7.268	4.087	6.846	4.030	6.424	3.973	6.003	3.915	5.581	3.858	5.075	3.789
	22	7.516	3.779	7.077	3.741	6.639	3.703	6.200	3.664	5.761	3.626	5.235	3.581
	23	7.765	3.471	7.309	3.542	6.853	3.433	6.398	3.414	5.942	3.394	5.395	3.372
	24	8.013	3.163	7.541	3.163	7.068	3.163	6.595	3.163	6.123	3.163	5.556	3.163

Model: AWM 20GR - ALC 20CR

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	2.056	2.506	3.124	3.124	3.330	3.330	5.597	5.597	6.834	6.834	7.452	7.452	8.071	8.071
17	2.446	2.446	3.062	3.062	3.267	3.267	5.546	5.546	6.648	6.648	7.245	7.245	7.841	7.841
19	2.386	2.385	2.999	2.999	3.204	3.204	5.494	5.494	6.462	6.462	7.037	7.037	7.612	7.612
21	2.326	2.326	2.937	2.937	3.140	3.140	5.443	5.443	6.276	6.276	6.829	6.829	7.382	7.382
23	2.319	2.319	2.887	2.887	3.077	3.077	5.204	5.204	6.089	6.089	6.621	6.621	7.153	7.153
25	2.311	2.311	2.838	2.838	3.014	3.014	4.965	4.965	5.903	5.903	6.413	6.413	6.923	6.923
27	2.304	2.304	2.789	2.789	2.951	2.951	4.726	4.726	5.717	5.717	6.205	6.205	6.694	6.694
FROST REGION														

Heat Pump (R22)

Model: AWM 25GR - ALC 25CR

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	7.657	5.145	7.196	4.692	6.735	4.238	6.275	3.785	5.814	3.331	5.261	2.787
	16	7.728	4.693	7.300	4.280	6.873	3.867	6.446	3.454	6.019	3.042	5.507	2.546
24	16	7.728	5.582	7.300	5.439	6.873	5.026	6.446	4.614	6.019	4.201	5.507	3.705
	17	7.798	5.400	7.405	5.028	7.011	4.656	6.618	4.283	6.224	3.911	5.752	3.464
	18	7.869	4.948	7.509	4.617	7.149	4.285	6.789	3.953	6.430	3.621	5.998	3.223
	19	7.940	4.496	7.613	4.205	7.287	3.914	6.961	3.623	6.635	3.332	6.243	2.982
	20	8.008	4.045	7.701	3.803	7.394	3.560	7.086	3.318	6.779	3.075	6.410	2.784
28	18	7.869	6.107	7.509	5.776	7.149	5.444	6.789	5.112	6.430	4.781	5.998	4.383
	19	7.940	5.655	7.613	5.364	7.287	5.073	6.961	4.782	6.635	4.491	6.243	4.142
	20	8.008	5.205	7.701	4.962	7.394	4.720	7.086	4.477	6.779	4.235	6.410	3.944
	21	8.076	4.754	7.778	4.566	7.479	4.377	7.181	4.189	6.883	4.000	6.525	3.774
	22	8.144	4.304	7.855	4.169	7.565	4.035	7.276	3.900	6.986	3.766	6.639	3.604
	23	8.212	3.854	7.931	3.773	7.651	3.693	7.730	3.612	7.090	3.532	6.754	3.435
	24	8.279	3.403	8.008	3.377	7.737	3.350	7.465	3.324	7.194	3.297	6.868	3.265
30	20	8.008	5.784	7.701	5.542	7.394	5.299	7.086	5.057	6.779	4.814	6.410	4.523
	21	8.076	5.334	7.778	5.145	7.479	4.957	7.181	4.768	6.883	4.580	6.525	4.354
	22	8.144	4.883	7.855	4.749	7.565	4.614	7.276	4.480	6.986	4.345	6.639	4.184
	23	8.212	4.433	7.931	4.353	7.651	4.272	7.370	4.192	7.090	4.111	6.754	4.015
	24	8.279	3.983	8.008	3.956	7.737	3.930	7.465	3.903	7.194	3.877	6.868	3.845

Model: AWM 25GR - ALC 25CR

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	3.204	3.204	3.940	3.940	4.185	4.185	6.883	6.883	8.355	8.355	9.091	9.091	9.872	9.872
17	3.141	3.141	3.865	3.865	4.107	4.107	6.822	6.822	8.128	8.128	8.838	8.838	9.547	9.547
19	3.078	3.078	3.791	3.791	4.028	4.028	6.760	6.760	7.901	7.901	8.585	8.585	9.268	9.268
21	3.015	3.015	3.716	3.716	3.950	3.950	6.699	6.699	7.674	7.674	8.331	8.331	8.989	8.989
23	2.992	2.992	3.652	3.652	3.872	3.872	6.406	6.406	7.447	7.447	8.078	8.078	8.709	8.709
25	2.970	2.970	3.588	3.588	3.794	3.794	6.112	6.112	7.220	7.220	7.825	7.825	8.430	8.430
27	2.947	2.947	3.523	3.523	3.715	3.715	5.819	5.819	6.993	6.993	7.572	7.572	8.150	8.150
FROST REGION														

Heat Pump (R22)

Model: AWM 301R - ALC 28CR

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	8.187	5.330	7.772	4.967	7.356	4.604	6.941	4.241	6.525	3.877	6.026	3.441
	16	8.441	4.894	8.027	4.579	7.614	4.265	7.200	3.951	6.786	3.637	6.289	3.260
24	16	8.441	6.144	8.027	5.830	7.614	5.516	7.200	5.202	6.786	4.888	6.289	4.511
	17	8.695	5.707	8.283	5.442	7.871	5.177	7.459	4.912	7.047	4.647	6.552	4.329
	18	8.949	5.271	8.539	5.055	8.128	4.839	7.718	4.623	7.307	4.407	6.815	4.147
	19	9.203	4.834	8.795	4.667	8.386	4.500	7.977	4.333	7.568	4.166	7.078	3.966
	20	9.456	4.395	9.037	4.266	8.617	4.136	8.198	4.007	7.779	3.877	7.276	3.722
28	18	8.949	6.521	8.539	6.305	8.128	6.089	7.718	5.873	7.307	5.567	6.815	5.398
	19	9.203	6.084	8.795	5.918	8.386	5.751	7.977	5.584	7.568	5.417	7.078	5.217
	20	9.456	5.646	9.037	5.517	8.617	5.387	8.198	5.257	7.779	5.128	7.276	4.972
	21	9.708	5.207	9.270	5.107	8.832	5.007	8.394	4.907	7.956	4.806	7.430	4.686
	22	9.959	4.768	9.503	4.697	9.046	4.626	8.590	4.556	8.133	4.485	7.585	4.400
	23	10.211	4.328	9.736	4.287	9.261	4.246	8.785	4.205	8.310	4.164	7.740	4.114
	24	10.462	3.889	9.969	3.877	9.475	3.866	8.981	3.854	8.487	3.842	7.895	3.828
30	20	9.456	6.272	9.037	6.142	8.617	6.012	8.198	5.883	7.779	5.753	7.276	5.598
	21	9.708	5.832	9.270	5.732	8.832	5.632	8.394	5.532	7.956	5.432	7.430	5.312
	22	9.959	5.393	9.503	5.322	9.046	5.252	8.590	5.181	8.133	5.110	7.585	5.026
	23	10.211	4.954	9.736	4.913	9.261	4.871	8.785	4.830	8.310	4.789	7.740	4.739
	24	10.462	4.515	9.969	4.503	9.475	4.491	8.981	4.479	8.487	4.468	7.895	4.453

Model: AWM 301R - ALC 28CR

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	3.527	3.527	4.422	4.422	4.720	4.720	8.000	8.000	9.790	9.790	10.684	10.684	11.579	11.579
17	3.437	3.437	4.332	4.332	4.630	4.630	7.939	7.939	9.523	9.523	10.386	10.386	11.250	11.250
19	3.347	3.347	4.241	4.241	4.540	4.540	7.877	7.877	9.256	9.256	10.088	10.088	10.920	10.920
21	3.256	3.256	4.151	4.151	4.449	4.449	7.816	7.816	8.989	8.989	9.790	9.790	10.591	10.591
23	3.252	3.252	4.082	4.082	4.359	4.359	7.461	7.461	8.722	8.722	9.492	9.492	10.262	10.262
25	3.247	3.247	7.014	7.014	4.269	4.269	7.105	7.105	8.455	8.455	9.194	9.194	9.932	9.932
27	3.242	3.242	3.945	3.945	4.179	4.179	6.750	6.750	8.188	8.188	8.896	8.896	9.603	9.603
FROST REGION														

Cooling Only (R410A)

Model: A5WM 07G - A5LC 07C

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	2.541	1.631	2.345	1.434	2.152	1.214	1.959	1.048	1.766	0.854	1.535	0.623
	16	2.588	1.515	2.402	1.335	2.217	1.157	2.033	0.979	1.849	0.801	1.627	0.588
24	16	2.588	2.038	2.402	1.858	2.217	1.680	2.033	1.502	1.849	1.325	1.627	1.111
	17	2.635	1.922	2.459	1.759	2.283	1.597	2.107	1.434	1.931	1.271	1.720	1.076
	18	2.680	1.804	2.513	1.657	2.346	1.511	2.179	1.364	2.012	1.217	1.812	1.041
	19	2.722	1.686	2.547	1.558	2.372	1.430	2.197	1.302	2.064	1.168	1.904	1.006
	20	2.768	1.563	2.610	1.424	2.451	1.284	2.293	1.145	2.135	1.006	1.944	0.839
28	18	2.680	2.327	2.513	2.181	2.346	2.034	2.179	1.887	2.012	1.740	1.812	1.564
	19	2.722	2.210	2.547	2.082	2.372	1.954	2.197	1.826	2.064	1.691	1.904	1.529
	20	2.768	2.086	2.610	1.947	2.451	1.808	2.293	1.668	2.135	1.529	1.944	1.362
	21	2.812	1.963	2.652	1.816	2.493	1.668	2.334	1.520	2.175	1.372	1.984	1.195
	22	2.855	1.840	2.695	1.684	2.535	1.528	2.376	1.371	2.216	1.215	2.024	1.028
	23	2.898	1.717	2.738	1.553	2.577	1.388	2.417	1.223	2.257	1.058	2.064	0.860
	24	2.941	1.594	2.780	1.421	2.619	1.248	2.458	1.074	2.297	0.901	2.104	0.693
30	20	2.768	2.348	2.610	2.209	2.451	2.069	2.293	1.930	2.135	1.791	1.944	1.624
	21	2.812	2.225	2.652	2.077	2.493	1.929	2.334	1.782	2.175	1.634	1.984	1.456
	22	2.855	2.102	2.695	1.946	2.535	1.789	2.376	1.633	2.216	1.477	2.024	1.289
	23	2.898	1.979	2.738	1.814	2.577	1.649	2.417	1.485	2.257	1.320	2.064	1.122
	24	2.941	1.856	2.780	1.683	2.619	1.509	2.458	1.336	2.297	1.163	2.104	0.955

Model: A5WM 09G - A5LC 10C

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	2.720	1.771	2.556	1.606	2.406	1.457	2.257	1.307	2.108	1.158	1.929	0.978
	16	2.816	1.656	2.654	1.511	2.499	1.374	2.344	1.236	2.189	1.099	2.003	0.934
24	16	2.816	2.202	2.654	2.057	2.499	1.920	2.344	1.782	2.189	1.645	2.003	1.480
	17	2.912	2.087	2.752	1.962	2.591	1.837	2.431	1.711	2.270	1.586	2.078	1.436
	18	3.001	1.964	2.837	1.854	2.674	1.744	2.511	1.634	2.348	1.524	2.152	1.392
	19	3.092	1.835	2.940	1.706	2.789	1.577	2.637	1.449	2.451	1.403	2.227	1.348
	20	3.177	1.713	3.003	1.603	2.829	1.492	2.656	1.381	2.482	1.271	2.274	1.138
28	18	3.001	2.510	2.837	2.400	2.674	2.290	2.511	2.180	2.348	2.070	2.152	1.938
	19	3.092	2.381	2.940	2.252	2.789	2.123	2.637	1.995	2.451	1.949	2.227	1.894
	20	3.177	2.259	3.003	2.148	2.829	2.038	2.656	1.927	2.482	1.817	2.274	1.684
	21	3.264	2.130	3.083	2.004	2.901	1.878	2.720	1.751	2.538	1.625	2.320	1.474
	22	3.352	2.002	3.162	1.860	2.973	1.718	2.784	1.576	2.594	1.434	2.367	1.263
	23	3.439	1.873	3.242	1.715	3.045	1.558	2.848	1.400	2.650	1.242	2.414	1.053
	24	3.527	1.744	3.322	1.571	3.117	1.398	2.912	1.224	2.707	1.051	2.461	0.843
30	20	3.177	2.532	3.003	2.421	2.829	2.311	2.656	2.200	2.482	2.089	2.274	1.957
	21	3.264	2.403	3.083	2.277	2.901	2.151	2.720	2.024	2.538	1.898	2.320	1.747
	22	3.352	2.275	3.162	2.133	2.973	1.991	2.784	1.849	2.594	1.707	2.367	1.536
	23	3.439	2.146	3.242	1.988	3.045	1.831	2.848	1.673	2.650	1.515	2.414	1.326
	24	3.527	2.017	3.322	1.844	3.117	1.671	2.912	1.497	2.707	1.324	2.461	1.116

Cooling Only (R410A)

Model: A5WM 10G - A5LC 10C

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	3.028	1.998	2.824	1.793	2.631	1.600	2.439	1.407	2.247	1.215	2.016	0.983
	16	3.110	1.857	2.909	1.675	2.714	1.500	2.519	1.324	2.325	1.148	2.091	0.937
24	16	3.110	2.450	2.909	2.268	2.714	2.093	2.519	1.917	2.325	1.741	2.091	1.530
	17	3.192	2.309	2.995	2.151	2.797	1.992	2.600	1.833	2.402	1.675	2.165	1.484
	18	3.268	2.163	3.070	2.046	2.873	1.884	2.675	1.745	2.477	1.606	2.240	1.439
	19	3.347	2.008	3.159	1.844	2.971	1.680	2.783	1.517	2.570	1.460	2.314	1.393
	20	3.420	1.864	3.217	1.731	3.013	1.598	2.810	1.465	2.607	1.332	2.363	1.173
28	18	3.268	2.756	3.070	2.617	2.873	2.477	2.675	2.338	2.477	2.199	2.240	2.032
	19	3.347	2.601	3.159	2.437	2.971	2.273	2.783	2.110	2.570	2.053	2.314	1.986
	20	3.420	2.457	3.217	2.324	3.013	2.191	2.810	2.058	2.607	1.925	2.363	1.766
	21	3.495	2.304	3.287	2.158	3.078	2.012	2.870	1.867	2.662	1.721	2.412	1.546
	22	3.570	2.151	3.357	1.992	3.143	1.834	2.930	1.675	2.716	1.517	2.460	1.326
	23	3.646	1.998	3.427	1.827	3.208	1.655	2.990	1.484	2.771	1.312	2.509	1.107
	24	3.721	1.845	3.497	1.661	3.273	1.477	3.050	1.292	2.826	1.108	2.557	0.887
30	20	3.420	2.753	3.217	2.620	3.013	2.488	2.810	2.355	2.607	2.222	2.363	2.063
	21	3.495	2.600	3.287	2.455	3.078	2.309	2.870	2.163	2.662	2.018	2.412	1.843
	22	3.570	2.448	3.357	2.289	3.143	2.130	2.930	1.972	2.716	1.813	2.460	1.623
	23	3.646	2.295	3.427	2.123	3.208	1.952	2.990	1.780	2.771	1.609	2.509	1.403
	24	3.721	2.142	3.497	1.958	3.273	1.773	3.050	1.589	2.826	1.405	2.557	1.183

Model: A5WM 15G - A5LC 15C

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	3.525	2.306	3.328	2.109	3.156	1.936	2.983	1.764	2.811	1.591	2.604	1.384
	16	3.668	2.159	3.482	1.989	3.308	1.831	3.134	1.673	2.960	1.515	2.751	1.325
24	16	3.668	2.856	3.482	2.686	3.308	2.528	3.134	2.370	2.960	2.212	2.751	2.022
	17	3.810	2.709	3.635	2.566	3.460	2.422	3.285	2.279	3.109	2.135	2.899	1.963
	18	3.941	2.551	3.769	2.427	3.597	2.302	3.425	2.178	3.253	2.053	3.047	1.904
	19	4.069	2.381	3.885	2.215	3.701	2.049	3.517	1.883	3.370	1.866	3.195	1.845
	20	4.200	2.226	4.020	2.099	3.839	1.971	3.659	1.843	3.478	1.715	3.262	1.561
28	18	3.941	3.248	3.769	3.123	3.597	2.999	3.425	2.874	3.253	2.750	3.047	2.601
	19	4.069	3.078	3.885	2.912	3.701	2.746	3.517	2.580	3.370	2.563	3.195	2.541
	20	4.200	2.923	4.020	2.795	3.839	2.668	3.659	2.540	3.478	2.412	3.262	2.258
	21	4.329	2.757	4.136	2.606	3.944	2.456	3.752	2.306	3.559	2.156	3.329	1.975
	22	4.457	2.590	4.253	2.418	4.049	2.245	3.845	2.072	3.641	1.899	3.396	1.692
	23	4.585	2.424	4.369	2.229	4.153	2.034	3.938	1.838	3.722	1.643	3.463	1.409
	24	4.713	2.257	4.486	2.040	4.258	1.822	4.031	1.605	3.803	1.387	3.530	1.126
30	20	4.200	3.272	4.020	3.144	3.839	3.016	3.659	2.888	3.478	2.760	3.262	2.607
	21	4.329	3.105	4.136	2.955	3.944	2.805	3.752	2.654	3.559	2.504	3.329	2.324
	22	4.457	2.939	4.253	2.766	4.049	2.593	3.845	2.421	3.641	2.248	3.396	2.041
	23	4.585	2.772	4.369	2.577	4.153	2.382	3.938	2.187	3.722	1.992	3.463	1.757
	24	4.713	2.606	4.486	2.388	4.258	2.171	4.031	1.953	3.803	1.735	3.530	1.474

Cooling Only (R410A)

Model: A5WM 20G - A5LC 20C (1 PHASE)

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	5.147	3.507	4.918	3.236	4.654	3.002	4.390	2.769	4.126	2.535	3.809	2.255
	16	5.349	3.308	5.102	3.073	4.838	2.858	4.574	2.642	4.310	2.427	3.992	2.168
24	16	5.349	4.197	5.102	3.963	4.838	3.747	4.75	3.532	4.310	3.316	3.992	3.057
	17	5.551	3.997	5.287	3.800	5.022	3.602	4.758	3.405	4.493	3.208	4.176	2.971
	18	5.769	3.780	5.498	3.608	5.227	3.435	4.956	3.263	4.685	3.091	4.360	2.884
	19	5.994	3.549	5.755	3.330	5.515	3.112	5.276	2.894	4.943	2.850	4.543	2.798
	20	6.201	3.333	5.901	3.151	5.600	2.968	5.300	2.785	4.999	2.603	4.639	2.383
28	18	5.769	4.669	5.498	4.497	5.227	4.325	4.956	4.152	4.685	3.890	4.360	3.774
	19	5.994	4.438	5.755	4.220	5.515	4.001	5.276	3.783	4.943	3.739	4.543	3.687
	20	6.201	4.223	5.901	4.040	5.600	3.857	5.300	3.675	4.999	3.492	4.639	3.273
	21	6.416	3.993	6.093	3.775	5.769	3.557	5.446	3.338	5.122	3.120	4.734	2.858
	22	6.631	3.764	6.248	3.510	5.938	3.256	5.592	3.002	5.245	2.748	4.829	2.444
	23	6.845	3.534	6.476	3.245	6.107	2.956	5.737	2.666	5.368	2.337	4.925	2.029
	24	7.060	3.305	6.668	2.980	6.276	2.655	5.883	2.330	5.491	2.005	5.020	1.615
30	20	6.201	4.667	5.901	4.485	5.600	4.302	5.300	4.119	4.999	3.936	4.639	3.717
	21	6.416	4.438	6.093	4.220	5.769	4.001	5.446	3.783	5.122	3.565	4.734	3.303
	22	6.631	4.209	6.284	3.955	5.938	3.701	5.592	3.447	5.245	3.193	4.829	2.888
	23	6.845	3.979	6.476	3.690	6.107	3.400	5.737	3.111	5.368	2.821	4.925	2.474
	24	7.060	3.750	6.668	3.425	6.276	3.100	5.883	2.775	5.491	2.540	5.020	2.060

Model: A5WM 20G - A5LC 20C (3 PHASE)

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	5.206	3.550	4.976	3.280	4.711	3.049	4.447	2.818	4.182	2.587	3.864	2.310
	16	5.402	3.346	5.156	3.114	4.892	2.902	4.628	2.689	4.365	2.477	4.049	2.222
24	16	5.402	4.235	5.156	4.003	4.892	3.791	4.628	3.579	4.365	3.366	4.049	3.112
	17	5.597	4.031	5.335	3.838	5.073	3.644	4.810	3.450	4.548	3.256	4.233	3.024
	18	5.809	3.810	5.541	3.642	5.274	3.474	5.006	3.306	4.739	3.138	4.417	2.936
	19	6.025	3.571	5.775	3.345	5.526	3.120	5.276	2.894	4.970	2.873	4.602	2.848
	20	6.229	3.353	5.935	3.175	5.640	2.997	5.346	2.819	5.052	2.641	4.699	2.428
28	18	5.809	4.699	5.541	4.531	5.274	4.363	5.006	4.195	4.739	4.027	4.417	3.825
	19	6.025	4.460	5.775	4.235	5.526	4.009	5.276	3.783	4.970	3.762	4.602	3.737
	20	6.229	4.243	5.935	4.065	5.640	3.887	5.346	3.709	5.052	3.531	4.699	3.317
	21	6.437	4.008	6.121	3.795	5.806	3.581	5.490	3.367	5.174	3.153	4.795	2.897
	22	6.646	3.774	6.308	3.525	5.971	3.275	5.634	3.025	5.297	2.776	4.892	2.476
	23	6.854	3.540	6.495	3.255	6.136	2.969	5.778	2.684	5.419	2.398	4.988	2.056
	24	7.062	3.306	6.682	2.985	6.302	2.663	5.922	2.342	5.541	2.021	5.085	1.635
30	20	6.229	4.687	5.935	4.509	5.640	4.331	5.346	4.153	5.052	3.975	4.699	3.762
	21	6.437	4.453	6.121	4.239	5.806	4.025	5.490	3.812	5.174	3.598	4.795	3.341
	22	6.646	4.219	6.308	3.969	5.971	3.720	5.634	3.470	5.297	3.220	4.892	2.921
	23	6.854	3.985	6.495	3.699	6.136	3.414	5.778	3.128	5.419	2.843	4.988	2.500
	24	7.062	3.750	6.682	3.429	6.302	3.108	5.922	2.787	5.541	2.465	5.085	2.080

Cooling Only (R410A)

Model: A5WM 25G - A5LC 25C (1 PHASE)

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	6.276	4.244	5.917	3.885	5.599	3.567	5.282	3.250	4.964	2.932	4.583	2.551
	16	6.510	3.997	6.156	3.682	5.822	3.388	5.489	3.094	5.156	2.800	4.756	2.447
24	16	6.510	5.158	6.156	4.846	5.822	4.549	5.489	4.255	5.156	3.961	4.756	3.608
	17	6.743	4.911	6.394	4.640	6.045	4.370	5.696	4.099	5.347	3.828	4.928	3.504
	18	6.958	4.644	6.601	4.405	6.244	4.166	5.887	3.926	5.530	3.687	5.101	3.399
	19	7.177	4.367	6.835	4.102	6.494	3.837	6.153	3.572	5.753	3.446	5.274	3.295
	20	7.384	4.097	7.000	3.847	6.615	3.597	6.231	3.347	5.846	3.097	5.385	2.797
28	18	6.958	5.805	6.601	5.566	6.244	5.327	5.887	5.087	5.530	4.848	5.101	4.561
	19	7.177	5.528	6.835	5.263	6.494	4.998	6.153	4.733	5.753	4.607	5.274	4.456
	20	7.384	5.258	7.000	5.008	6.615	4.758	6.231	4.508	5.846	4.258	5.385	3.958
	21	7.596	4.977	7.192	4.685	6.788	4.393	6.384	4.102	5.980	3.810	5.495	3.460
	22	7.808	4.696	7.385	4.362	6.961	4.029	6.538	3.695	6.114	3.362	5.606	2.962
	23	8.020	4.415	7.577	4.040	7.134	3.664	6.691	3.289	6.248	2.914	5.717	2.463
	24	8.232	4.134	7.770	3.717	7.307	3.300	6.845	2.883	6.383	2.466	5.828	1.965
30	20	7.384	5.839	7.000	5.589	6.615	5.339	6.231	5.089	5.846	4.839	5.385	4.539
	21	7.596	5.558	7.192	5.266	6.788	4.974	6.384	4.682	5.980	4.391	5.495	4.040
	22	7.808	5.277	7.385	4.943	6.961	4.609	6.538	4.276	6.114	3.942	5.606	3.542
	23	8.020	4.996	7.577	4.620	7.134	4.245	6.691	3.870	6.248	3.494	5.717	3.044
	24	8.232	4.715	7.770	4.297	7.307	3.880	6.845	3.463	6.383	3.046	5.828	2.546

Model: A5WM 25G - A5LC 25C (3 PHASE)

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	6.762	4.377	6.391	3.963	5.957	3.582	5.523	3.202	5.089	2.821	4.568	2.365
	16	6.971	4.123	6.585	3.751	6.168	3.397	5.751	3.042	5.333	2.687	4.832	2.261
24	16	6.971	5.382	6.585	5.010	6.168	4.655	5.751	4.301	5.333	3.946	4.832	3.520
	17	7.180	5.128	6.779	4.799	6.379	4.470	5.978	4.140	5.577	3.811	5.097	3.416
	18	7.418	4.859	7.023	4.562	6.627	4.264	6.231	3.967	5.836	3.669	5.361	3.312
	19	7.663	4.591	7.306	4.332	6.949	4.074	6.592	3.816	6.153	3.539	5.626	3.208
	20	7.889	4.305	7.476	3.999	7.064	3.692	6.651	3.386	6.239	3.079	5.744	2.712
28	18	7.418	6.118	7.023	5.820	6.627	5.523	6.231	5.225	5.836	4.928	5.361	4.571
	19	7.663	5.850	7.306	5.591	6.949	5.333	6.592	5.074	6.153	4.798	5.626	4.467
	20	7.889	5.564	7.476	5.258	7.064	4.951	6.651	4.645	6.239	4.338	5.744	3.971
	21	8.121	5.280	7.687	4.933	7.252	4.586	6.818	4.238	6.383	3.891	5.862	3.474
	22	8.354	4.996	7.898	4.608	7.441	4.220	6.984	3.831	6.528	3.443	5.980	2.977
	23	8.587	4.712	8.108	4.283	7.630	3.854	7.151	3.425	6.672	2.996	6.098	2.481
	24	8.819	4.428	8.319	3.958	7.818	3.488	7.318	3.018	6.817	2.548	6.216	1.984
30	20	7.889	6.194	7.476	5.887	7.064	5.581	6.651	5.274	6.239	4.968	5.744	4.600
	21	8.121	5.910	7.687	5.562	7.252	5.215	6.818	4.868	6.383	4.520	5.862	4.103
	22	8.354	5.626	7.898	5.238	7.441	4.849	6.984	4.461	6.528	4.073	5.980	3.607
	23	8.587	5.342	8.108	4.913	7.630	4.486	7.151	4.054	6.672	3.625	6.098	3.110
	24	8.819	5.058	8.319	4.588	7.818	4.118	7.318	3.648	6.817	3.178	6.216	2.613

Cooling Only (R410A)

Model: A5WM 311 - A5LC 28C (1 & 3 PHASE)

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	7.648	4.989	7.255	4.595	6.798	4.252	6.341	3.908	5.884	3.656	5.336	3.153
	16	7.911	4.701	7.503	4.359	7.062	4.043	6.621	3.727	6.180	3.411	5.650	3.032
24	16	7.911	5.947	7.503	5.606	7.062	5.290	6.621	4.974	6.180	4.658	5.650	4.278
	17	8.175	5.659	7.750	5.370	7.325	5.081	6.900	4.793	6.475	4.504	5.965	4.157
	18	8.469	5.347	8.048	5.095	7.627	4.843	7.206	4.591	6.785	4.338	6.280	4.036
	19	8.770	5.014	8.387	4.696	8.004	4.378	7.621	4.060	7.155	3.994	6.595	3.915
	20	9.050	4.705	8.605	4.442	8.159	4.178	7.714	3.915	7.268	3.651	6.732	3.335
28	18	8.469	6.593	8.048	6.341	7.627	6.089	7.206	5.837	6.785	5.585	6.280	5.282
	19	8.770	6.261	8.387	5.942	8.004	5.624	7.621	5.306	7.155	5.240	6.595	5.161
	20	9.050	5.952	8.605	5.688	8.159	5.425	7.714	5.161	7.268	4.898	6.734	4.581
	21	9.337	5.623	8.863	5.311	8.389	4.999	7.915	4.687	7.441	4.375	6.872	4.001
	22	9.625	5.294	9.122	4.934	8.619	4.574	8.116	4.213	7.614	3.853	7.011	3.421
	23	9.912	4.965	9.381	4.556	8.849	4.148	8.318	3.740	7.787	3.331	7.149	2.841
	24	10.199	4.635	9.639	4.179	9.079	3.722	8.519	3.266	7.959	2.809	7.288	2.261
30	20	9.050	6.575	8.605	6.312	8.159	6.048	7.714	5.784	7.268	5.521	6.734	5.204
	21	9.337	6.246	8.863	5.934	8.389	5.622	7.915	5.311	7.441	4.999	6.872	4.624
	22	9.625	5.917	9.122	5.557	8.619	5.197	8.116	4.837	7.614	4.477	7.011	4.044
	23	9.912	5.588	9.381	5.179	8.849	4.771	8.318	4.363	7.787	3.954	7.149	3.464
	24	10.199	5.259	9.639	4.802	9.079	4.346	8.519	3.889	7.959	3.432	7.288	2.885

Heat Pump (R410A)

Model: A5WM 07GR - A5LC 07CR

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	2.247	1.520	2.115	1.388	1.997	1.269	1.878	1.151	1.760	1.032	1.618	0.890
	16	2.329	1.431	2.195	1.314	2.067	1.204	1.940	1.094	1.813	0.985	1.660	0.853
24	16	2.329	1.849	2.195	1.732	2.067	1.622	1.940	1.513	1.813	1.403	1.660	1.271
	17	2.410	1.759	2.274	1.658	2.138	1.557	2.002	1.456	1.866	1.356	1.703	1.234
	18	2.486	1.663	2.343	1.574	2.201	1.484	2.058	1.395	1.916	1.305	1.745	1.197
	19	2.566	1.564	2.443	1.468	2.320	1.372	2.197	1.277	2.011	1.224	1.787	1.161
	20	2.636	1.466	2.480	1.374	2.324	1.281	2.168	1.188	2.012	1.096	1.825	0.984
28	18	2.486	2.082	2.343	1.992	2.201	1.903	2.058	1.813	1.916	1.723	1.745	1.616
	19	2.566	1.982	2.443	1.886	2.320	1.791	2.197	1.695	2.011	1.642	1.787	1.579
	20	2.636	1.885	2.480	1.792	2.324	1.699	2.168	1.607	2.012	1.514	1.825	1.403
	21	2.711	1.784	2.548	1.676	2.385	1.569	2.221	1.462	2.058	1.355	1.862	1.226
	22	2.786	1.682	2.616	1.561	2.445	1.439	2.275	1.318	2.104	1.196	1.900	1.050
	23	2.861	1.581	2.683	1.445	2.506	1.309	2.328	1.173	2.151	1.037	1.937	0.874
	24	2.936	1.480	2.751	1.330	2.566	1.179	2.382	1.029	2.197	0.878	1.975	0.697
30	20	2.636	2.094	2.480	2.001	2.324	1.908	2.168	1.816	2.012	1.723	1.825	1.612
	21	2.711	1.993	2.548	1.886	2.385	1.778	2.221	1.671	2.058	1.564	1.862	1.435
	22	2.786	1.892	2.616	1.770	2.445	1.648	2.275	1.527	2.104	1.405	1.900	1.259
	23	2.861	1.790	2.683	1.654	2.506	1.518	2.328	1.382	2.151	1.246	1.937	1.083
	24	2.936	1.689	2.751	1.539	2.566	1.388	2.382	1.238	2.197	1.087	1.975	0.906

Model: A5WM 07GR - A5LC 07CR

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	1.329	1.329	1.504	1.504	1.562	1.562	2.205	2.205	2.555	2.555	2.730	2.730	2.905	2.905
17	1.294	1.294	1.418	1.418	1.522	1.522	2.202	2.202	2.494	2.494	2.665	2.665	2.836	2.836
19	1.259	1.259	1.332	1.332	1.483	1.483	2.199	2.199	2.432	2.432	2.600	2.600	2.767	2.767
21	1.224	1.224	1.287	1.287	1.443	1.443	2.153	2.153	2.371	2.371	2.535	2.535	2.698	2.698
23	1.189	1.189	1.282	1.282	1.403	1.403	2.063	2.063	2.309	2.309	2.469	2.469	2.629	2.629
25	1.155	1.155	1.277	1.277	1.363	1.363	1.972	1.972	2.248	2.248	2.404	2.404	2.560	2.560
27	1.120	1.120	1.272	1.272	1.323	1.323	1.882	1.882	2.186	2.186	2.339	2.339	2.491	2.491
FROST REGION														

Heat Pump (R410A)

Model: A5WM 09GR - A5LC 10CR

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	2.779	1.868	2.617	1.706	2.474	1.562	2.330	1.419	2.187	1.275	2.014	1.102
	16	2.868	1.747	2.707	1.607	2.555	1.476	2.403	1.345	2.250	1.214	2.067	1.056
24	16	2.868	2.271	2.707	2.131	2.555	2.000	2.403	1.869	2.250	1.738	2.067	1.580
	17	2.958	2.151	2.797	2.032	2.636	1.914	2.475	1.795	2.314	1.676	2.121	1.534
	18	3.039	2.022	2.873	1.919	2.706	1.817	2.540	1.714	2.373	1.611	2.174	1.488
	19	3.123	1.882	2.961	1.743	2.799	1.604	2.637	1.465	2.451	1.455	2.227	1.442
	20	3.202	1.757	3.023	1.655	2.845	1.552	2.666	1.449	2.488	1.346	2.274	1.223
28	18	3.039	2.546	2.873	2.443	2.706	2.341	2.540	2.238	2.373	2.135	2.174	2.012
	19	3.123	2.406	2.961	2.267	2.799	2.128	2.637	1.989	2.451	1.979	2.227	1.966
	20	3.202	2.281	3.023	2.179	2.845	2.076	2.666	1.973	2.488	1.870	2.274	1.747
	21	3.283	2.146	3.098	2.027	2.913	1.908	2.728	1.789	2.542	1.670	2.320	1.527
	22	3.364	2.011	3.173	1.876	2.981	1.740	2.789	1.605	2.957	1.470	2.367	1.308
	23	3.446	1.875	3.247	1.724	3.049	1.573	2.850	1.421	2.652	1.270	2.414	1.088
	24	3.527	1.740	3.322	1.572	3.117	1.405	2.912	1.237	2.707	1.070	2.461	0.869
30	20	3.202	2.543	3.023	2.441	2.845	2.338	2.666	2.235	2.488	2.132	2.274	2.009
	21	3.283	2.408	3.098	2.289	2.913	2.170	2.728	2.051	2.542	1.932	2.320	1.789
	22	3.364	2.273	3.173	2.138	2.981	2.002	2.789	1.867	2.597	1.732	2.367	1.570
	23	3.446	2.137	3.247	1.986	3.049	1.835	2.850	1.683	2.652	1.532	2.414	1.350
	24	3.527	2.002	3.322	1.834	3.117	1.667	2.912	1.499	2.707	1.332	2.461	1.131

Model: A5WM 09GR - A5LC 10CR

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	1.595	1.595	1.805	1.805	1.875	1.875	2.646	2.646	3.066	3.066	3.276	3.276	3.486	3.486
17	1.553	1.553	1.786	1.786	1.831	1.831	2.642	2.642	3.015	3.015	3.224	3.224	3.433	3.433
19	1.511	1.511	1.768	1.768	1.788	1.788	2.639	2.639	2.964	2.964	3.172	3.172	3.379	3.379
21	1.469	1.469	1.728	1.728	1.744	1.744	2.597	2.597	2.913	2.913	3.120	3.120	3.326	3.326
23	1.427	1.427	1.667	1.667	1.701	1.701	2.517	2.517	2.862	2.862	3.067	3.067	3.272	3.272
25	1.386	1.386	1.607	1.607	1.657	1.657	2.436	2.436	2.811	2.811	3.015	3.015	3.219	3.219
27	1.344	1.344	1.546	1.546	1.614	1.614	2.356	2.356	2.761	2.761	2.963	2.963	3.165	3.165
FROST REGION														

Heat Pump (R410A)

Model: A5WM 10GR - A5LC 10CR

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	3.107	2.083	2.884	1.859	2.669	1.644	2.455	1.429	2.241	1.214	1.983	0.956
	16	3.179	1.934	2.958	1.734	2.742	1.538	2.527	1.342	2.311	1.146	2.052	0.911
24	16	3.179	2.524	2.958	2.324	2.742	2.128	2.527	1.932	2.311	1.736	2.052	1.501
	17	3.250	2.376	3.033	2.199	2.815	2.022	2.598	1.845	2.381	1.668	2.120	1.456
	18	3.318	2.224	3.100	2.067	2.883	1.911	2.666	1.754	2.449	1.598	2.188	1.411
	19	3.388	2.064	3.187	1.891	2.985	1.718	2.783	1.546	2.543	1.464	2.256	1.365
	20	3.452	1.912	3.231	1.765	3.010	1.619	2.789	1.472	2.568	1.325	2.303	1.149
28	18	3.318	2.813	3.100	2.657	2.883	2.501	2.666	2.344	2.449	2.188	2.188	2.000
	19	3.388	2.653	3.187	2.481	2.985	2.308	2.783	2.135	2.543	2.053	2.256	1.955
	20	3.452	2.502	3.231	2.355	3.010	2.208	2.789	2.062	2.568	1.915	2.303	1.739
	21	3.519	2.343	3.294	2.185	3.069	2.028	2.845	1.870	2.620	1.712	2.351	1.523
	22	3.585	2.184	3.357	2.016	3.129	1.847	2.900	1.678	2.672	1.509	2.398	1.307
	23	3.652	2.025	3.420	1.846	3.188	1.666	2.956	1.486	2.724	1.306	2.445	1.090
	24	3.718	1.867	3.483	1.676	3.247	1.485	3.011	1.294	2.776	1.103	2.493	0.874
30	20	3.452	2.797	3.231	2.650	3.010	2.503	2.789	2.357	2.568	2.210	2.303	2.034
	21	3.519	2.638	3.294	2.480	3.069	2.322	2.845	2.165	2.620	2.007	2.351	1.818
	22	3.585	2.479	3.357	2.310	3.129	2.142	2.900	1.973	2.672	1.804	2.398	1.601
	23	3.652	2.320	3.420	2.141	3.188	1.961	2.956	1.781	2.724	1.601	2.445	1.385
	24	3.718	2.162	3.483	1.971	3.247	1.780	3.011	1.589	2.776	1.398	2.493	1.169

Model: A5WM 10GR - A5LC 10CR

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	1.683	1.683	1.905	1.905	1.979	1.979	2.793	2.793	3.236	3.236	3.458	3.458	3.680	3.680
17	1.639	1.639	1.870	1.870	1.932	1.932	2.789	2.789	3.175	3.175	3.394	3.394	3.614	3.614
19	1.595	1.595	1.835	1.835	1.884	1.884	2.786	2.786	3.114	3.114	3.331	3.331	3.548	3.548
21	1.551	1.551	1.790	1.790	1.837	1.837	2.737	2.737	3.052	3.052	3.267	3.267	3.481	3.481
23	1.507	1.507	1.735	1.735	1.789	1.789	2.643	2.643	2.991	2.991	3.203	3.203	3.415	3.415
25	1.463	1.463	1.680	1.680	1.742	1.742	2.548	2.548	2.930	2.930	3.139	3.139	3.349	3.349
27	1.418	1.418	1.626	1.626	1.695	1.695	2.454	2.454	2.868	2.868	3.075	3.075	3.283	3.283

FROST REGION

Heat Pump (R410A)

Model: A5WM 15GR - A5LC 15CR

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	3.618	2.383	3.422	2.162	3.193	1.960	2.965	1.757	2.736	1.555	2.461	1.312
	16	3.728	2.236	3.525	2.040	3.305	1.853	3.085	1.667	2.865	1.480	2.601	1.256
24	16	3.728	2.892	3.525	2.697	3.305	2.510	3.085	2.323	2.865	2.137	2.601	1.913
	17	3.839	2.745	3.627	2.575	3.416	2.404	3.205	2.233	2.994	2.062	2.740	1.857
	18	3.965	2.590	3.756	2.438	3.547	2.287	3.339	2.135	3.130	1.983	2.879	1.801
	19	4.093	2.429	3.901	2.268	3.709	2.107	3.517	1.947	3.291	1.855	3.019	1.745
	20	4.214	2.271	3.996	2.118	3.778	1.966	3.561	1.813	3.343	1.661	3.082	1.478
28	18	3.965	3.247	3.756	3.095	3.547	2.943	3.339	2.792	3.130	2.640	2.879	2.458
	19	4.093	3.085	3.901	2.925	3.709	2.764	3.517	2.603	3.219	2.512	3.019	2.402
	20	4.214	2.928	3.996	2.775	3.778	2.622	3.561	2.470	3.343	2.317	3.082	2.134
	21	4.337	2.764	4.108	2.592	3.878	2.419	3.649	2.246	3.420	2.074	3.126	1.867
	22	4.460	2.601	4.219	2.408	3.979	2.215	3.738	2.023	3.498	1.830	3.209	1.599
	23	4.583	2.437	4.331	2.225	4.079	2.012	3.827	1.799	3.575	1.587	3.272	1.331
	24	4.706	2.274	4.442	2.041	4.179	1.809	3.915	1.576	3.652	1.343	3.336	1.064
30	20	4.214	3.256	3.996	3.103	3.778	2.951	3.561	2.798	3.343	2.646	3.082	2.463
	21	4.337	3.092	4.108	2.920	3.878	2.747	3.649	2.575	3.420	2.402	3.146	2.195
	22	4.460	2.929	4.219	2.736	3.979	2.544	3.738	2.351	3.498	2.159	3.209	1.927
	23	4.583	2.766	4.331	2.553	4.079	2.340	3.827	2.128	3.575	1.915	3.272	1.660
	24	4.706	2.602	4.442	2.370	4.179	2.137	3.915	1.904	3.652	1.671	3.336	1.392

Model: A5WM 15GR - A5LC 15CR

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	2.126	2.126	2.406	2.406	2.500	2.500	3.528	3.528	4.088	4.088	4.368	4.368	4.649	4.649
17	2.070	2.070	2.288	2.288	2.440	2.440	3.523	3.523	4.013	4.013	4.290	4.290	4.568	4.568
19	2.015	2.015	2.169	2.169	2.381	2.381	3.519	3.519	3.937	3.937	4.212	4.212	4.486	4.486
21	1.959	1.959	2.102	2.102	2.321	2.321	3.459	3.459	3.862	3.862	4.133	4.133	4.405	4.405
23	1.903	1.903	2.087	2.087	2.262	2.262	3.342	3.342	3.786	3.786	4.055	4.055	4.324	4.324
25	1.847	1.847	2.071	2.071	2.202	2.202	3.225	3.225	3.711	3.711	3.977	3.977	4.234	4.243
27	1.792	1.792	2.055	2.055	2.143	2.143	3.108	3.108	3.635	3.635	3.898	3.898	4.162	4.162
FROST REGION														

Heat Pump (R410A)

Model: A5WM 20GR - A5LC 20CR (1 PHASE)

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	5.147	3.507	4.918	3.236	4.654	3.002	4.390	2.769	4.126	2.535	3.809	2.255
	16	5.349	3.308	5.102	3.073	4.838	2.858	4.574	2.642	4.310	2.427	3.992	2.168
24	16	5.349	4.197	5.102	3.963	4.838	3.747	4.574	3.532	4.310	3.316	3.992	3.057
	17	5.551	3.997	5.287	3.800	5.022	3.602	4.758	3.405	4.493	3.208	4.176	2.971
	18	5.769	3.780	5.498	3.608	5.227	3.435	4.956	3.263	4.685	3.091	4.360	2.884
	19	5.994	3.549	5.755	3.330	5.515	3.112	5.276	2.894	4.943	2.850	4.543	2.798
	20	6.201	3.333	5.901	3.151	5.600	2.968	5.300	2.785	4.999	2.603	4.639	2.383
28	18	5.769	4.669	5.498	4.497	5.227	4.325	4.956	4.152	4.685	3.980	4.360	3.774
	19	5.994	4.438	5.755	4.220	5.515	4.001	5.276	3.783	4.943	3.739	4.543	3.687
	20	6.201	4.223	5.901	4.040	5.600	3.857	5.300	3.675	4.999	3.492	4.639	3.273
	21	6.416	3.993	6.093	3.775	5.769	3.557	5.446	3.338	5.122	3.120	4.734	2.858
	22	6.631	3.764	6.284	3.510	5.938	3.256	5.592	3.002	5.245	2.748	4.829	2.444
	23	6.845	3.534	6.476	3.245	6.107	2.956	5.737	2.666	5.368	2.377	4.925	2.029
	24	7.060	3.305	6.668	2.980	6.276	2.655	5.883	2.330	5.491	2.005	5.020	1.615
30	20	6.201	4.667	5.901	4.485	5.600	4.302	5.300	4.119	4.999	3.936	4.639	3.717
	21	6.416	4.438	6.093	4.220	5.769	4.001	5.446	3.783	5.122	3.565	4.734	3.303
	22	6.631	4.209	6.284	3.955	5.938	3.701	5.592	3.447	5.245	3.193	4.829	2.888
	23	6.845	3.979	6.476	3.690	6.107	3.400	5.737	3.111	5.368	2.821	4.925	2.474
	24	7.060	3.750	6.668	3.425	6.276	3.100	5.883	2.775	5.491	2.450	5.020	2.060

Model: A5WM 20GR - A5LC 20CR (1 PHASE)

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	3.189	3.189	3.610	3.610	3.750	3.750	5.291	5.291	6.132	6.132	6.553	6.553	6.973	6.973
17	3.106	3.106	3.514	3.514	3.677	3.677	5.285	5.285	6.106	6.106	6.535	6.535	6.964	6.964
19	3.022	3.022	3.418	3.418	3.605	3.605	5.279	5.279	6.080	6.080	6.517	6.517	6.954	6.954
21	2.938	2.938	3.340	3.340	3.532	3.532	5.241	5.241	6.055	6.055	6.500	6.500	6.945	6.945
23	2.855	2.855	3.279	3.279	3.459	3.459	5.173	5.173	6.029	6.029	6.482	6.482	6.935	6.935
25	2.771	2.771	3.218	3.218	3.387	3.387	5.105	5.105	6.003	6.003	6.464	6.464	6.926	6.926
27	2.688	2.688	3.157	3.157	3.314	3.314	5.037	5.037	5.977	5.977	6.447	6.447	6.917	6.917

FROST REGION

Heat Pump (R410A)

Model: A5WM 20GR - A5LC 20CR (3 PHASE)

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	5.206	3.550	4.976	3.280	4.711	3.049	4.447	2.818	4.182	2.587	3.864	2.310
	16	5.402	3.346	5.156	3.114	4.892	2.902	4.628	2.689	4.365	2.477	4.049	2.222
24	16	5.402	4.235	5.156	4.003	4.892	3.791	4.628	3.579	4.365	3.366	4.049	3.112
	17	5.597	4.031	5.335	3.838	5.073	3.644	4.810	3.450	4.548	3.256	4.233	3.024
	18	5.809	3.810	5.541	3.642	5.274	3.474	5.006	3.306	4.739	3.138	4.417	2.936
	19	6.025	3.571	5.775	3.345	5.526	3.120	5.276	2.894	4.970	2.873	4.602	2.848
	20	6.229	3.353	5.935	3.175	5.640	2.997	5.346	2.819	5.052	2.641	4.699	2.482
28	18	5.809	4.699	5.541	4.531	5.274	4.363	5.006	4.195	4.739	4.027	4.417	3.825
	19	6.025	4.460	5.775	4.235	5.526	4.009	5.276	3.783	4.970	3.762	4.602	3.737
	20	6.229	4.243	5.935	4.065	5.640	3.887	5.346	3.709	5.052	3.531	4.699	3.317
	21	6.437	4.008	6.121	3.795	5.806	3.581	5.490	3.367	5.174	3.153	4.795	2.897
	22	6.646	3.774	6.308	3.525	5.971	3.275	5.634	3.025	5.297	2.776	4.892	2.476
	23	6.854	3.540	6.495	3.255	6.136	2.696	5.778	2.684	5.419	2.398	4.988	2.056
	24	7.062	3.306	6.682	2.985	6.302	2.663	5.922	2.342	5.541	2.021	5.085	1.635
30	20	6.229	4.687	5.935	4.509	5.640	4.331	5.346	4.153	5.052	3.975	4.699	3.762
	21	6.437	4.453	6.121	4.239	5.806	4.025	5.490	3.812	5.174	3.598	4.795	3.341
	22	6.646	4.219	6.308	3.969	5.971	3.720	5.634	3.470	5.297	3.220	4.892	2.921
	23	6.854	3.985	6.495	3.699	6.136	3.414	5.778	3.128	5.419	2.843	4.988	2.500
	24	7.062	3.750	6.682	3.429	6.302	3.108	5.922	2.787	5.541	2.465	5.085	2.080

Model: A5WM 20GR - A5LC 20CR (3 PHASE)

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	3.278	3.278	3.710	3.710	3.854	3.854	5.438	5.438	6.302	6.302	6.735	6.735	7.167	7.167
17	3.192	3.192	3.598	3.598	3.776	3.776	5.432	5.432	6.259	6.259	6.697	6.697	7.135	7.135
19	3.1069	3.106	3.485	3.485	3.698	3.698	5.425	5.425	6.215	6.215	6.659	6.659	7.103	7.103
21	3.020	3.020	3.401	3.401	3.620	3.620	5.376	5.376	6.171	6.171	6.621	6.621	7.071	7.071
23	2.934	2.934	3.344	3.344	3.542	3.542	5.285	5.285	6.127	6.127	6.583	6.583	7.039	7.039
25	2.848	2.848	3.287	3.287	3.464	3.464	5.194	5.194	6.083	6.083	6.545	6.545	7.007	7.007
27	2.762	2.762	3.230	3.230	3.386	3.386	5.103	5.103	6.039	6.039	6.507	6.507	6.975	6.975
FROST REGION														

Heat Pump (R410A)

Model: A5WM 25GR - A5LC 25CR (1 PHASE)

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	6.276	4.244	5.917	3.885	5.599	3.567	5.282	3.250	4.964	2.932	4.583	2.551
	16	6.510	3.997	6.156	3.682	5.822	3.388	5.489	3.094	5.156	2.800	4.756	2.447
24	16	6.510	5.158	6.156	4.843	5.822	4.549	5.489	4.255	5.156	3.961	4.756	3.608
	17	6.743	4.911	6.394	4.640	6.045	4.370	5.696	4.099	5.347	3.282	4.928	3.504
	18	6.958	4.644	6.601	4.405	6.244	4.166	5.887	3.926	5.530	3.687	5.101	3.399
	19	7.177	4.367	6.835	4.102	6.494	3.837	6.153	3.572	5.753	3.446	5.274	3.295
	20	7.384	4.097	7.000	3.847	6.615	3.597	6.231	3.347	5.846	3.097	5.385	2.797
28	18	6.958	5.805	6.601	5.566	6.244	5.327	5.887	5.087	5.530	4.848	5.101	4.561
	19	7.177	5.528	6.835	5.263	6.494	4.998	6.153	4.733	5.753	4.607	5.274	4.456
	20	7.384	5.258	7.000	5.008	6.615	4.758	6.231	4.508	5.846	4.258	5.385	3.958
	21	7.596	4.977	7.192	4.685	6.788	4.393	6.384	4.102	5.980	3.810	5.495	3.460
	22	7.808	4.696	7.385	4.362	6.961	4.029	6.538	3.695	6.114	3.362	5.606	2.962
	23	8.020	4.415	7.577	4.040	7.134	3.664	6.691	3.289	6.248	2.914	5.717	2.463
	24	8.232	4.134	7.770	3.717	7.307	3.300	6.845	2.883	6.383	2.466	5.828	1.965
30	20	7.384	5.839	7.000	5.589	6.615	5.339	6.231	5.089	5.846	4.839	5.385	4.539
	21	7.596	5.558	7.192	5.266	6.788	4.974	6.384	4.682	5.980	4.391	5.495	4.040
	22	7.808	5.277	7.385	4.943	6.961	4.608	6.538	4.276	6.114	3.942	5.606	3.542
	23	8.020	4.996	7.577	4.620	7.134	4.245	6.691	3.870	6.248	3.494	5.717	3.044
	24	8.232	4.715	7.770	4.297	7.307	3.880	6.845	3.463	6.383	3.046	5.828	2.546

Model: A5WM 25GR - A5LC 25CR (1 PHASE)

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	3.898	3.898	4.412	4.412	4.583	4.583	6.467	6.467	7.495	7.495	8.009	8.009	8.523	8.523
17	3.796	3.796	4.288	4.288	4.495	4.495	6.459	6.459	7.469	7.469	7.994	7.994	8.519	8.519
19	3.694	3.694	4.165	4.165	4.408	4.408	6.452	6.452	7.443	7.443	7.979	7.979	8.515	8.515
21	3.591	3.591	4.069	4.068	4.320	4.320	6.410	6.410	7.418	7.418	7.964	7.964	8.511	8.511
23	3.489	3.489	4.001	4.001	4.233	4.233	6.334	6.334	7.392	7.392	7.950	7.950	8.507	8.507
25	3.387	3.387	3.932	3.932	4.145	4.145	6.258	6.258	7.366	7.366	7.935	7.935	8.503	8.503
27	3.285	3.285	3.864	3.864	4.057	4.057	6.182	6.182	7.341	7.341	7.920	7.920	8.499	8.499
FROST REGION														

Heat Pump (R410A)

Model: A5WM 25GR - A5LC 25CR (3 PHASE)

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	6.762	4.377	6.391	3.963	5.957	3.582	5.523	3.202	4.089	2.821	4.568	2.365
	16	6.971	4.123	6.585	3.751	6.168	3.397	5.751	3.042	5.333	2.687	4.832	2.261
24	16	6.971	5.382	6.585	5.010	6.168	4.655	5.751	4.301	5.333	3.946	4.832	3.520
	17	7.180	5.128	6.779	4.799	6.379	4.470	5.978	4.140	5.577	3.811	5.097	3.416
	18	7.418	4.859	7.023	4.562	6.627	4.264	6.231	3.967	5.836	3.669	5.361	3.312
	19	7.663	4.591	7.306	4.332	6.949	4.074	6.592	3.816	6.153	3.539	5.626	3.208
	20	7.889	4.305	7.476	3.999	7.064	3.692	6.651	3.386	6.239	3.079	5.744	2.712
28	18	7.418	6.118	7.032	5.820	6.627	5.523	6.231	5.225	5.836	4.928	5.361	4.571
	19	7.663	5.850	7.306	5.591	6.949	5.333	6.592	5.074	6.153	4.798	5.626	4.467
	20	7.889	5.564	7.476	5.258	7.064	4.951	6.651	4.645	6.239	4.338	5.744	3.971
	21	8.121	5.280	7.687	4.933	7.252	4.586	6.818	4.238	6.383	3.891	5.862	3.474
	22	8.354	4.996	7.898	4.608	7.441	4.220	6.984	3.831	6.528	3.443	5.980	2.977
	23	8.587	4.712	8.108	4.283	7.630	3.854	7.151	3.425	6.672	2.996	6.098	2.481
	24	8.819	4.428	8.319	3.958	7.818	3.488	7.318	3.018	6.817	2.548	6.216	1.984
30	20	7.889	6.194	7.476	5.887	7.064	5.581	6.651	5.274	6.239	4.968	5.744	4.600
	21	8.121	5.910	7.687	5.562	7.252	5.215	6.818	4.868	6.383	4.520	5.862	4.103
	22	8.354	5.626	7.898	5.238	7.441	4.849	6.984	4.461	6.528	4.073	5.980	3.607
	23	8.587	5.342	8.108	4.913	7.630	4.483	7.151	4.054	6.672	3.625	6.098	3.110
	24	8.819	5.058	8.319	4.588	7.818	4.118	7.318	3.648	6.817	3.178	6.216	2.613

Model: A5WM 25GR - A5LC 25CR (3 PHASE)

Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	4.075	4.075	4.612	4.612	4.791	4.791	6.761	6.761	7.835	7.835	8.373	8.373	8.910	8.910
17	3.968	3.968	4.514	4.514	4.685	4.685	6.753	6.753	7.732	7.732	8.270	8.270	8.807	8.807
19	3.861	3.861	4.416	4.416	4.579	4.579	6.745	6.745	7.628	7.628	8.167	8.167	8.705	8.705
21	3.755	3.755	4.311	4.311	4.473	4.473	6.654	6.654	7.525	7.525	8.063	8.063	8.602	8.602
23	3.648	3.648	4.199	4.199	4.367	4.367	6.481	6.481	7.421	7.421	7.960	7.960	8.499	8.499
25	3.541	3.541	4.086	4.086	4.260	4.260	6.308	6.308	7.318	7.318	7.857	7.857	8.397	8.397
27	3.434	3.434	3.974	3.974	4.154	4.154	6.134	6.134	7.214	7.214	7.754	7.754	8.294	8.294
FROST REGION														

Heat Pump (R410A)

Model: A5WM 311R - A5LC 28CR (1 & 3 PHASE)

Cooling Mode

ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	7.648	4.989	7.255	4.595	6.798	4.252	6.341	3.908	5.884	3.565	5.336	3.153
	16	7.911	4.701	7.503	4.359	7.062	4.043	6.621	3.727	6.180	3.411	5.650	3.032
24	16	7.911	5.947	7.503	5.606	7.062	5.290	6.621	4.974	6.180	4.658	5.650	4.278
	17	8.175	5.659	7.750	5.370	7.325	5.081	6.900	4.793	6.475	4.504	5.965	4.157
	18	8.469	5.347	8.048	5.095	7.627	4.843	7.206	4.591	6.785	4.338	6.280	4.036
	19	8.770	5.014	8.387	4.696	8.004	4.378	7.621	4.060	7.155	3.994	6.595	3.915
	20	9.050	4.705	8.605	4.442	8.159	4.178	7.714	3.915	7.268	3.651	6.734	3.335
28	18	8.469	6.593	8.048	6.341	7.627	6.089	7.206	5.837	6.785	5.585	6.280	5.282
	19	8.770	6.261	8.387	5.942	8.004	5.624	7.621	5.306	7.155	5.240	6.595	5.161
	20	9.050	5.952	8.605	5.688	8.159	5.425	7.714	5.161	7.268	4.898	6.734	4.581
	21	9.337	5.623	8.863	5.311	8.389	4.999	7.915	4.687	7.441	4.375	6.872	4.001
	22	9.625	5.294	9.122	4.934	8.619	4.574	8.116	4.213	7.614	3.853	7.011	3.421
	23	9.912	4.965	9.381	4.556	8.849	4.148	8.318	3.740	7.787	3.331	7.149	2.841
	24	10.199	4.635	9.639	4.179	9.079	3.722	8.519	3.266	7.959	2.809	7.288	2.261
30	20	9.050	6.575	8.605	6.312	8.159	6.048	7.714	5.784	7.268	5.521	6.734	5.204
	21	9.337	6.246	8.863	5.934	8.389	5.622	7.915	5.311	7.441	4.999	6.872	4.624
	22	9.625	5.917	9.122	5.557	8.619	5.197	8.116	4.837	7.614	4.477	7.011	4.044
	23	9.912	5.588	9.381	5.179	8.849	4.771	8.318	4.363	7.787	3.954	7.149	3.464
	24	10.199	5.259	9.639	4.802	9.079	4.346	8.519	3.889	7.959	3.432	7.288	2.884

Model: A5WM 311R - A5LC 28CR (1 & 3 PHASE)

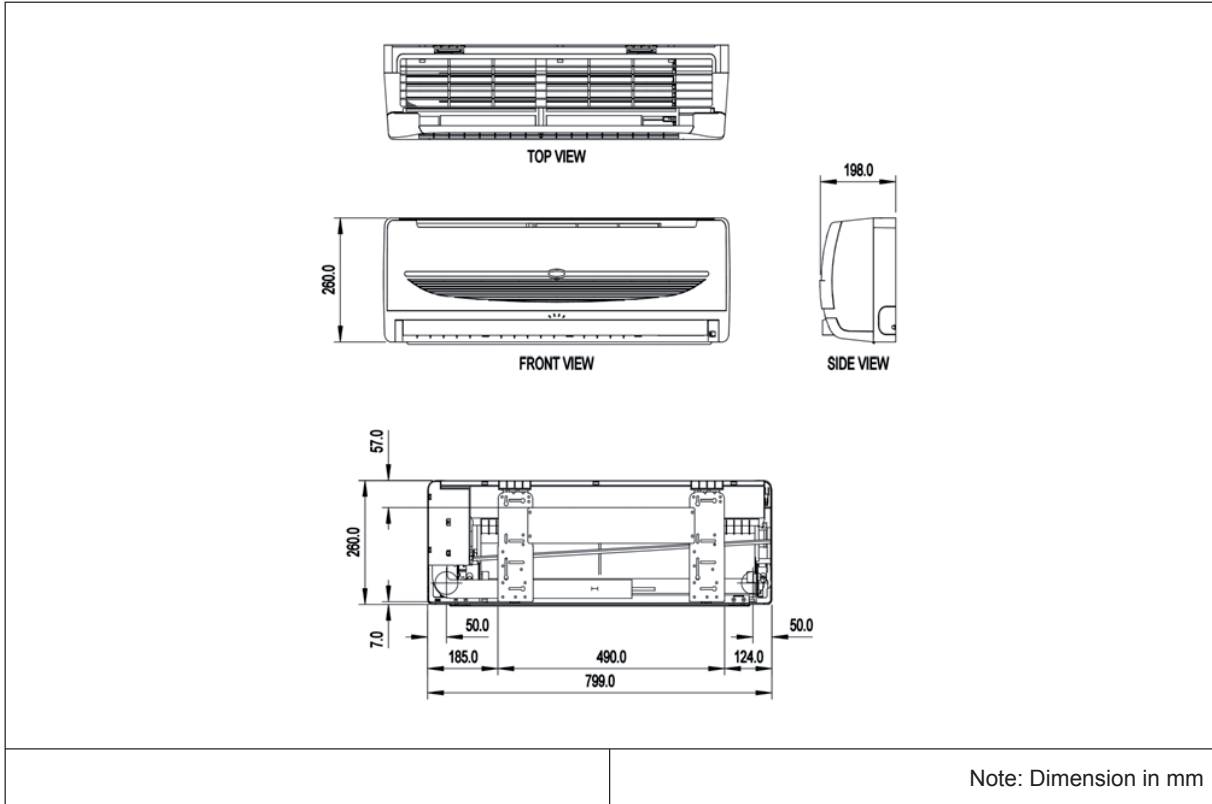
Heating Mode

ID WB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	4.607	4.607	5.214	5.214	5.416	5.416	7.643	7.643	8.858	8.858	9.465	9.465	10.072	10.072
17	4.486	4.486	5.121	5.121	5.289	5.289	7.634	7.634	8.703	8.703	9.305	9.305	9.908	9.908
19	4.365	4.365	5.029	5.029	5.162	5.162	7.625	7.625	8.548	8.548	9.146	9.146	9.743	9.743
21	4.244	4.244	4.908	4.908	5.035	5.035	7.499	7.499	8.393	8.393	8.986	8.986	9.579	9.579
23	4.124	4.124	4.759	4.759	4.907	4.907	7.257	7.257	8.239	8.239	8.827	8.827	9.414	9.414
25	4.003	4.003	4.609	4.609	4.780	4.780	7.015	7.015	8.084	8.084	8.667	8.667	9.250	9.250
27	3.882	3.882	4.460	4.460	4.653	4.653	6.773	6.773	7.929	7.929	8.507	8.507	9.086	9.086
FROST REGION														

Outline and Dimension

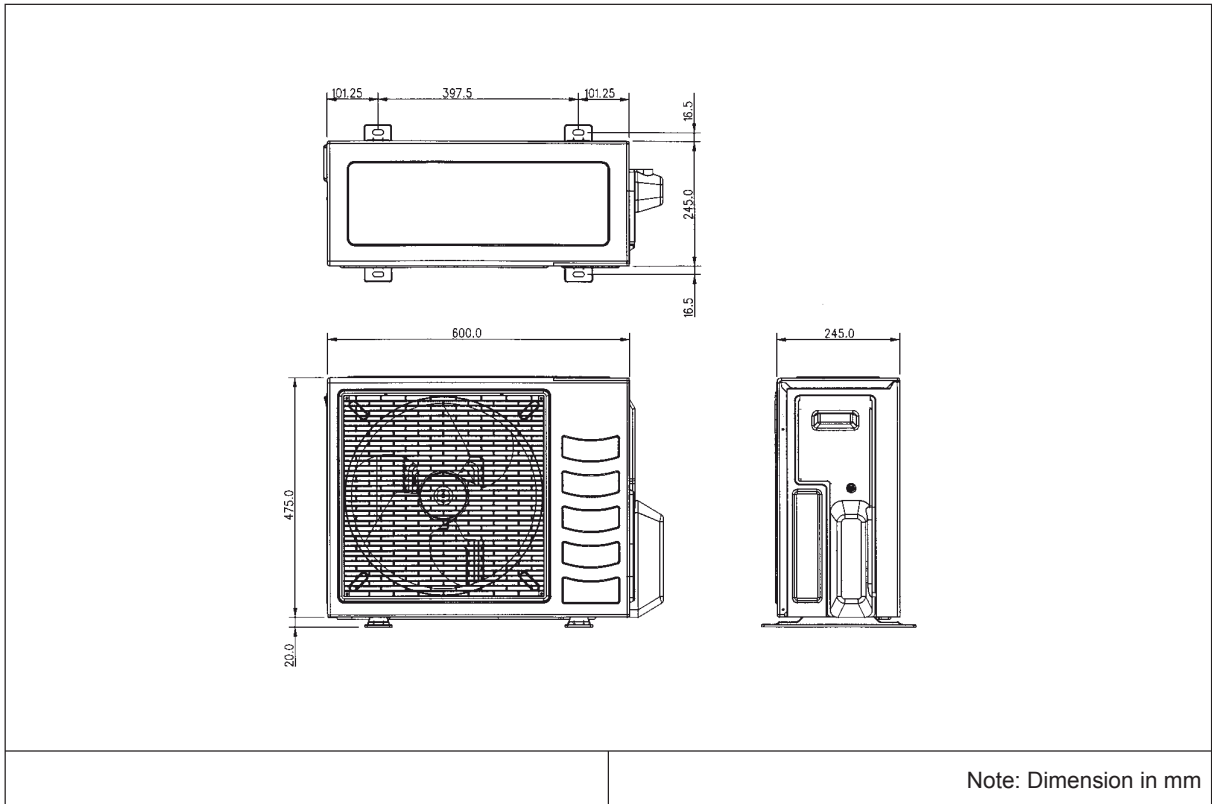
Indoor Unit

Model: AWM 07G/09G/GR, A5WM 07/09G/GR



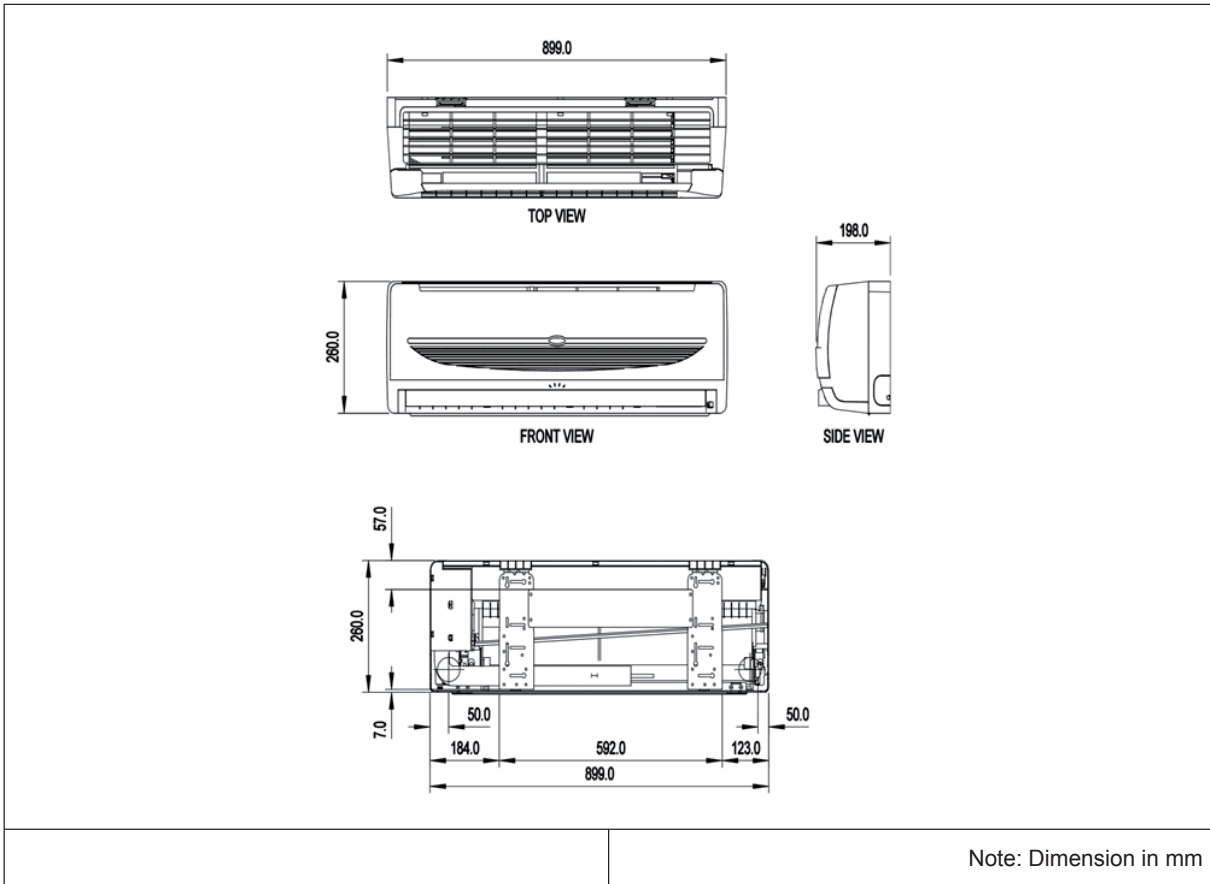
Outdoor Unit

Model: ALC 07C/09C/CR, A5LC 07C/CR



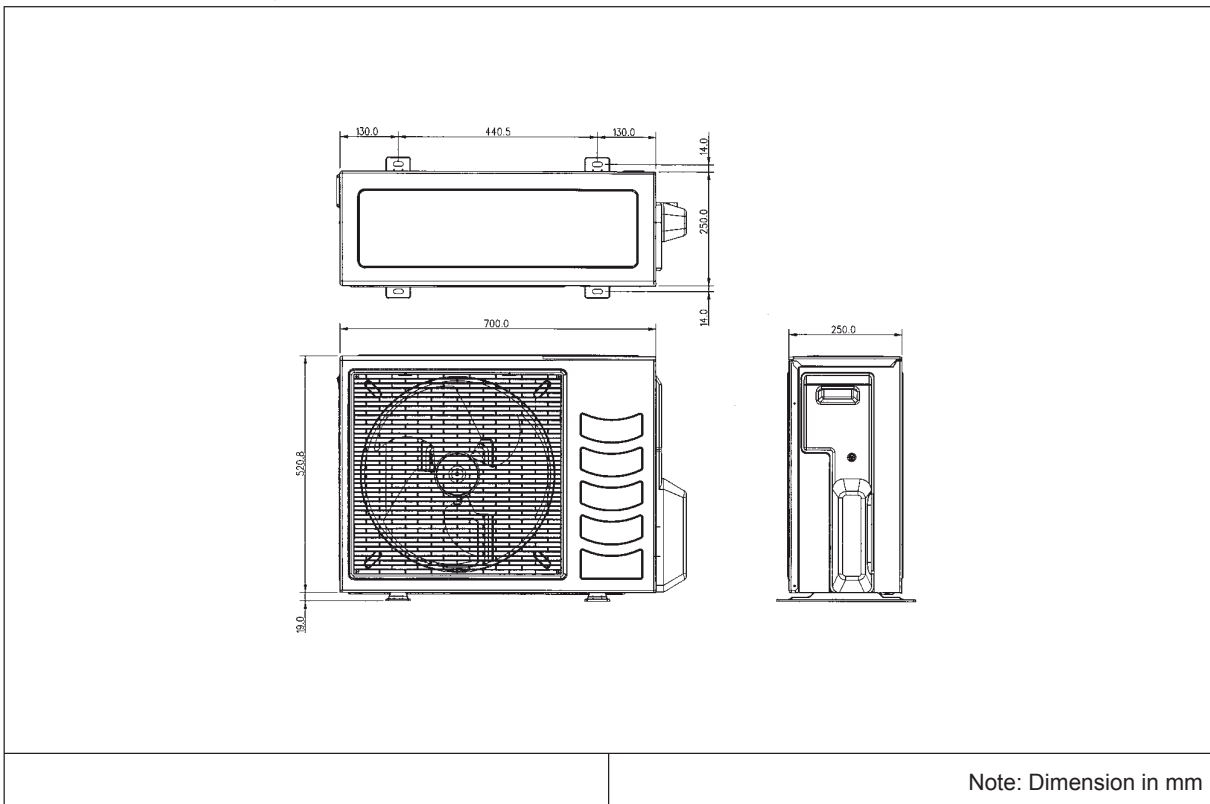
Indoor Unit

Model: AWM 10/15G/GR, A5WM 10/15G/GR



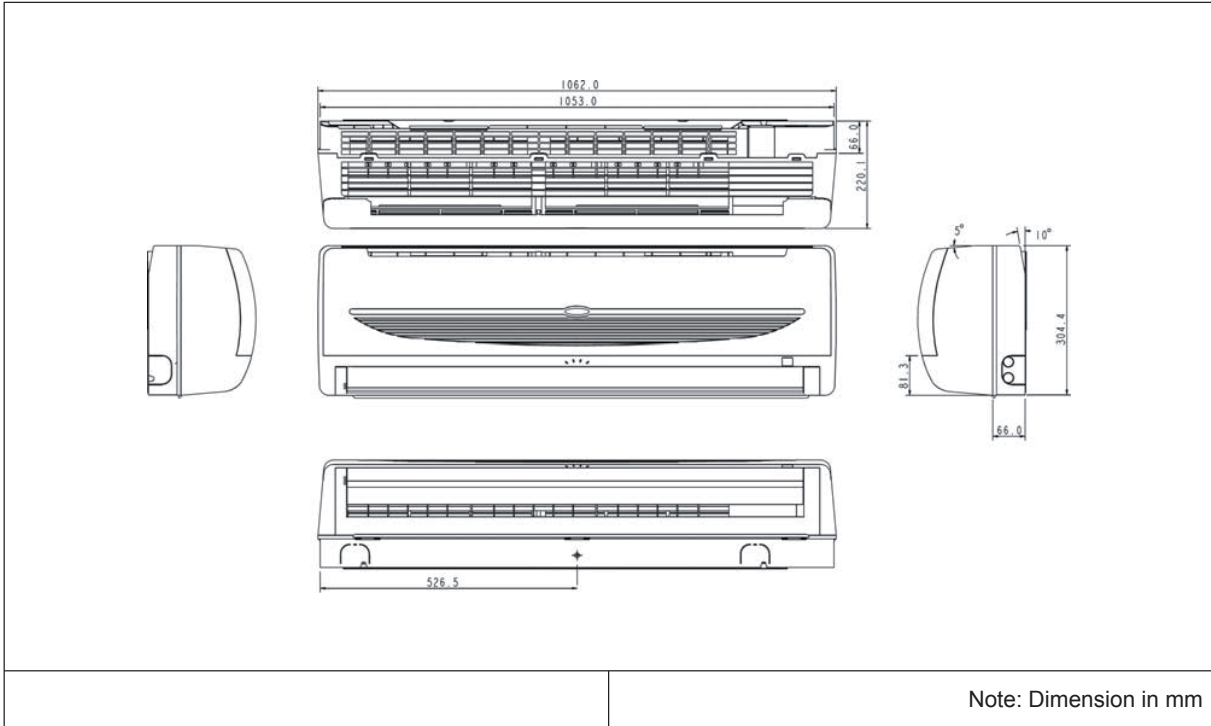
Outdoor Unit

Model: ALC 10/15C/CR, A5LC 10/15C/CR



Indoor Unit

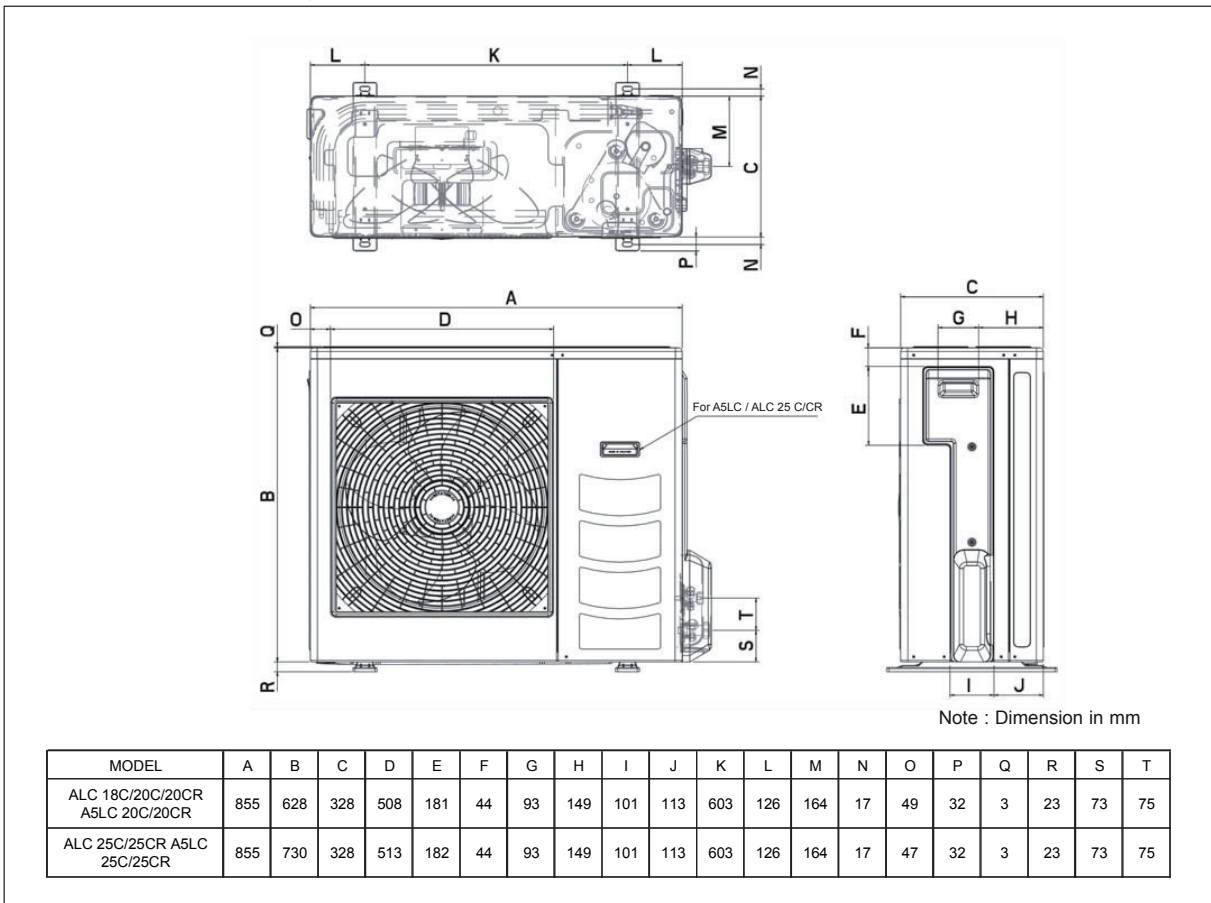
Model: AWM 20/25G/GR, A5WM 20/25G/GR



Note: Dimension in mm

Outdoor Unit

Model: ALC 18/20/25C/CR, A5LC 20/25C/CR

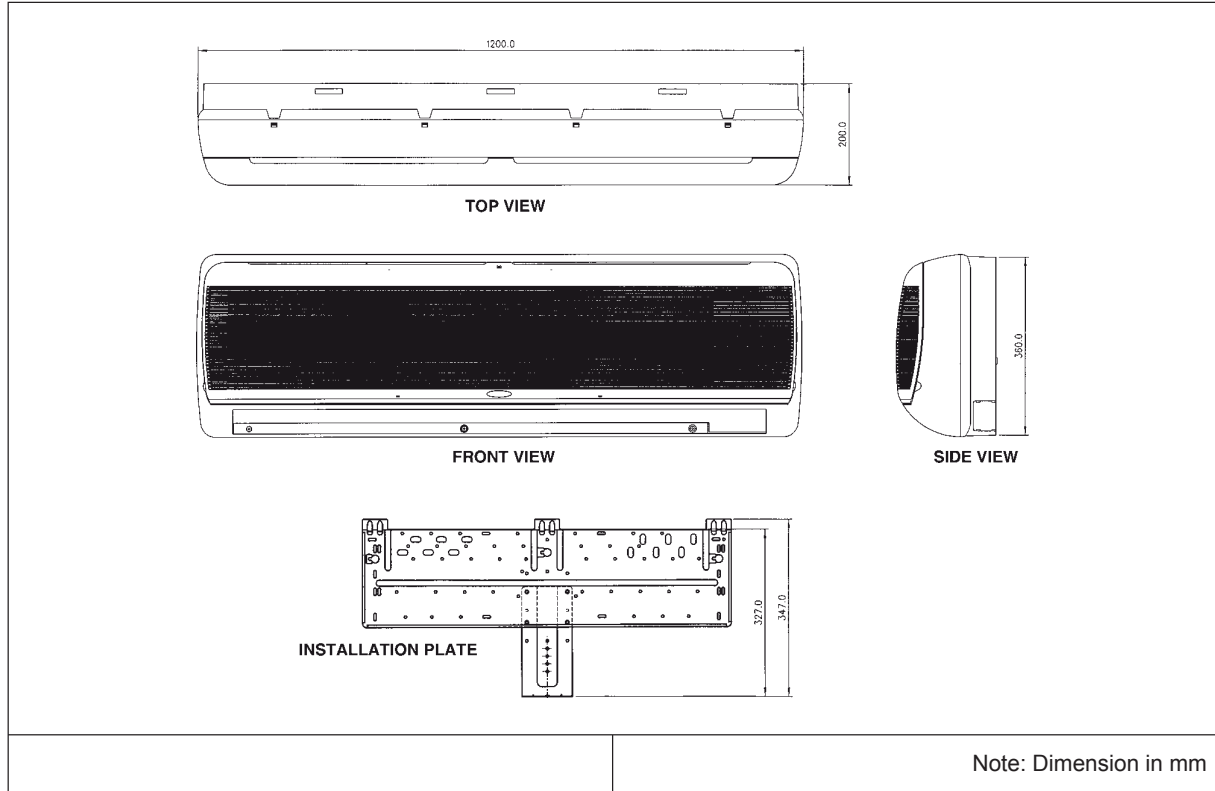


Note : Dimension in mm

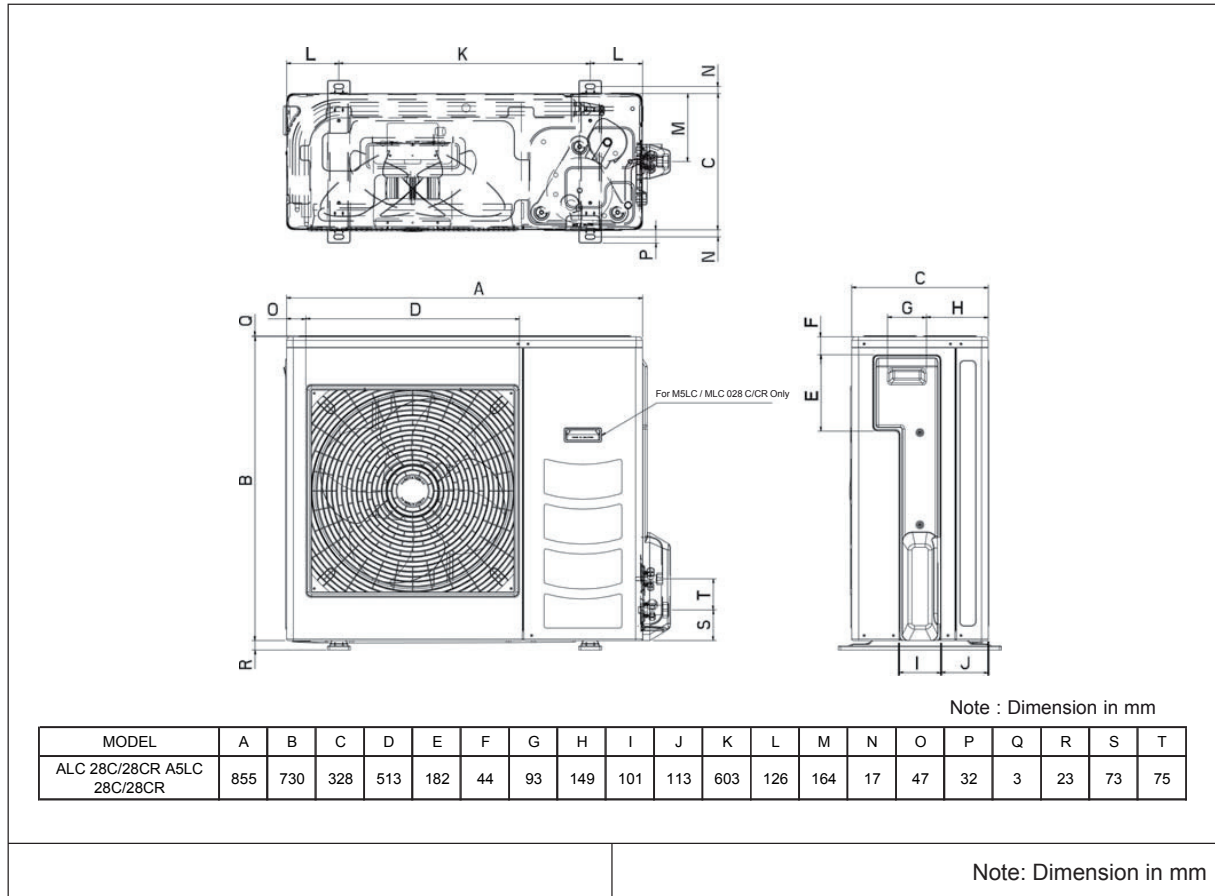
MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
ALC 18C/20C/20CR A5LC 20C/20CR	855	628	328	508	181	44	93	149	101	113	603	126	164	17	49	32	3	23	73	75
ALC 25C/25CR A5LC 25C/25CR	855	730	328	513	182	44	93	149	101	113	603	126	164	17	47	32	3	23	73	75

Note: Dimension in mm

Indoor Unit
Model: AWM 301/301R, A5WM 311/301R



Outdoor Unit
Model: A5LC 28C/CR



Electrical Data

Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		AWM 07G	AWM 09G
	OUTDOOR UNIT		ALC 07C	ALC 09C
INDOOR MOTOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	23	24
	RATED RUNNING CURRENT	A	0.11	0.11
	MOTOR OUTPUT	W	8	8
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	41	45
	RATED RUNNING CURRENT	A	0.19	0.20
	MOTOR OUTPUT	W	20	20
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	mF	20.0	30.0
	RATED INPUT POWER	W	526	850
	RATED RUNNING CURRENT	A	2.45	3.80
	LOCKED ROTOR AMP.	A	11.3	18

- 1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
 2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

Electrical Data - Heat Pump (R22)

MODEL	INDOOR UNIT		AWM 09GR	AWM 10GR
	OUTDOOR UNIT		ALC 09CR	ALC 10CR
INDOOR MOTOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	24	26
	RATED RUNNING CURRENT	A	0.11	0.11
	MOTOR OUTPUT	W	8	9
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	40	52
	RATED RUNNING CURRENT	A	0.18	0.23
	MOTOR OUTPUT	W	20	35
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	mF	25.0	30.0
	RATED INPUT POWER (COOLING)	W	846	759
	RATED INPUT POWER (HEATING)	W	686	679
	RATED RUNNING CURRENT (COOLING)	A	3.70	3.40
	RATED RUNNING CURRENT (HEATING)	A	3.10	3.00
	LOCKED ROTOR AMP.	A	18	19

- 1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
 2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		AWM 10G	AWM 15G
	OUTDOOR UNIT		ALC 10C	ALC 15C
INDOOR MOTOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	26	29
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	52	59
	RATED RUNNING CURRENT	A	0.23	0.26
	MOTOR OUTPUT	W	35	35
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	mF	30.0	30.0
	RATED INPUT POWER	W	783	1112
	RATED RUNNING CURRENT	A	3.50	5.00
	LOCKED ROTOR AMP.	A	19	21

- 1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

Electrical Data - Heat Pump (R22)

MODEL	INDOOR UNIT		AWM 15GR	AWM 20GR
	OUTDOOR UNIT		ALC 15CR	ALC 18CR
INDOOR MOTOR	INSULATION GRADE		CLASS E	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	29	47
	RATED RUNNING CURRENT	A	0.13	0.22
	MOTOR OUTPUT	W	13	20
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	59	120
	RATED RUNNING CURRENT	A	0.26	0.53
	MOTOR OUTPUT	W	35	64
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	mF	35.0	60.0
	RATED INPUT POWER (COOLING)	W	1012	1653
	RATED INPUT POWER (HEATING)	W	892	1493
	RATED RUNNING CURRENT (COOLING)	A	4.70	7.40
	RATED RUNNING CURRENT (HEATING)	A	4.10	6.70
	LOCKED ROTOR AMP.	A	24	32

- 1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		AWM 20G	AWM 20G
	OUTDOOR UNIT		ALC 18C	ALC 20C
INDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	47	47
	RATED RUNNING CURRENT	A	0.22	0.22
	MOTOR OUTPUT	W	20	20
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	120	120
	RATED RUNNING CURRENT	A	0.53	0.53
	MOTOR OUTPUT	W	64	64
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	mF	60.0	60.0
	RATED INPUT POWER	W	1643	1640
	RATED RUNNING CURRENT	A	7.37	7.20
	LOCKED ROTOR AMP.	A	32	32

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Electrical Data - Heat Pump (R22)

MODEL	INDOOR UNIT		AWM 20GR	AWM 25GR
	OUTDOOR UNIT		ALC 20CR	ALC 25CR
INDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	47	66
	RATED RUNNING CURRENT	A	0.22	0.29
	MOTOR OUTPUT	W	20	25
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	120	124
	RATED RUNNING CURRENT	A	0.53	0.54
	MOTOR OUTPUT	W	75	75
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	mF	60.0	50.0
	RATED INPUT POWER (COOLING)	W	1640	2340
	RATED INPUT POWER (HEATING)	W	1590	2260
	RATED RUNNING CURRENT (COOLING)	A	7.20	10.49
	RATED RUNNING CURRENT (HEATING)	A	7.00	10.24
	LOCKED ROTOR AMP.	A	32	54

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Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		AWM 25G	AWM 301
	OUTDOOR UNIT		ALC 25C	ALC 28C
INDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	66	71
	RATED RUNNING CURRENT	A	0.29	0.30
	MOTOR OUTPUT	W	25	40
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	124	142
	RATED RUNNING CURRENT	A	0.54	0.62
	MOTOR OUTPUT	W	75	75
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	mF	50.0	50.0
	RATED INPUT POWER	W	2340	2519
	RATED RUNNING CURRENT	A	10.50	12.20
	LOCKED ROTOR AMP.	A	54	66

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Electrical Data - Heat Pump (R22)

MODEL	INDOOR UNIT		AWM 301R	
	OUTDOOR UNIT		ALC 28CR	
INDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	71	
	RATED RUNNING CURRENT	A	0.30	
	MOTOR OUTPUT	W	75	
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	142	
	RATED RUNNING CURRENT	A	0.62	
	MOTOR OUTPUT	W	75	
	POLES		6	
COMPRESSOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR	mF	50.0	
	RATED INPUT POWER (COOLING)	W	2570	
	RATED INPUT POWER (HEATING)	W	2610	
	RATED RUNNING CURRENT (COOLING)	A	12.30	
	RATED RUNNING CURRENT (HEATING)	A	12.40	
	LOCKED ROTOR AMP.	A	66	

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Electrical Data - Cooling Only (R410A)

MODEL	INDOOR UNIT		A5WM 07G	A5WM 09G
	OUTDOOR UNIT		A5LC 07C	A5LC 10C
INDOOR MOTOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	24	24
	RATED RUNNING CURRENT	A	0.11	0.11
	MOTOR OUTPUT	W	8	8
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	40	52
	RATED RUNNING CURRENT	A	0.18	0.23
	MOTOR OUTPUT	W	20	35
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	mF	15.0	25.0
	RATED INPUT POWER	W	556	789
	RATED RUNNING CURRENT	A	2.60	3.60
	LOCKED ROTOR AMP.	A	12	19

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Electrical Data - Heat Pump (R410A)

MODEL	INDOOR UNIT		A5WM 07GR	A5WM 09GR
	OUTDOOR UNIT		A5LC 07CR	A5LC 10CR
INDOOR MOTOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	24	24
	RATED RUNNING CURRENT	A	0.11	0.11
	MOTOR OUTPUT	W	8	8
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	40	52
	RATED RUNNING CURRENT	A	0.18	0.23
	MOTOR OUTPUT	W	20	20
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	mF	15.0	25.0
	RATED INPUT POWER (COOLING)	W	616	784
	RATED INPUT POWER (HEATING)	W	486	669
	RATED RUNNING CURRENT (COOLING)	A	2.80	3.60
	RATED RUNNING CURRENT (HEATING)	A	2.40	3.10
	LOCKED ROTOR AMP.	A	12	19

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Electrical Data - Cooling Only (R410A)

MODEL	INDOOR UNIT		A5WM 10G	A5WM 15G
	OUTDOOR UNIT		A5LC 10C	A5LC 15C
INDOOR MOTOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	26	29
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	52	59
	RATED RUNNING CURRENT	A	0.23	0.26
	MOTOR OUTPUT	W	35	35
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	mF	25.0	30.0
	RATED INPUT POWER	W	789	1142
	RATED RUNNING CURRENT	A	3.60	5.10
	LOCKED ROTOR AMP.	A	19	24

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Electrical Data - Heat Pump (R410A)

MODEL	INDOOR UNIT		A5WM 10GR	A5WM 15GR
	OUTDOOR UNIT		A5LC 10CR	A5LC 15CR
INDOOR MOTOR	INSULATION GRADE		CLASS E	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	26	29
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	52	59
	RATED RUNNING CURRENT	A	0.23	0.26
	MOTOR OUTPUT	W	35	35
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	mF	25.0	35.0
	RATED INPUT POWER (COOLING)	W	789	1142
	RATED INPUT POWER (HEATING)	W	669	992
	RATED RUNNING CURRENT (COOLING)	A	4.00	5.23
	RATED RUNNING CURRENT (HEATING)	A	3.00	4.59
	LOCKED ROTOR AMP.	A	19	24

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Electrical Data - Cooling Only (R410A)

MODEL	INDOOR UNIT		A5WM 20G	A5WM 25G
	OUTDOOR UNIT		A5LC 20C	A5LC 25C
INDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	47	66
	RATED RUNNING CURRENT	A	0.22	0.29
	MOTOR OUTPUT	W	20	25
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	120	132
	RATED RUNNING CURRENT	A	0.53	0.58
	MOTOR OUTPUT	W	64	75
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	mF	45.0	45.0
	RATED INPUT POWER	W	1485	1717
	RATED RUNNING CURRENT	A	6.50	7.50
	LOCKED ROTOR AMP.	A	27	32

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Electrical Data - Heat Pump (R410A)

MODEL	INDOOR UNIT		A5WM 20GR	A5WM 25GR
	OUTDOOR UNIT		A5LC 20CR	A5LC 25CR
INDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	47	66
	RATED RUNNING CURRENT	A	0.22	0.29
	MOTOR OUTPUT	W	20	25
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	120	132
	RATED RUNNING CURRENT	A	0.53	0.58
	MOTOR OUTPUT	W	64	75
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	CAPACITOR	mF	45.0	50.0
	RATED INPUT POWER (COOLING)	W	1463	1662
	RATED INPUT POWER (HEATING)	W	1379	1672
	RATED RUNNING CURRENT (COOLING)	A	6.40	7.50
	RATED RUNNING CURRENT (HEATING)	A	6.10	7.50
	LOCKED ROTOR AMP.	A	27	26

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Electrical Data - Cooling Only (R410A)

MODEL	INDOOR UNIT		A5WM 311	
	OUTDOOR UNIT		A5LC 28C	
INDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	71	
	RATED RUNNING CURRENT	A	0.30	
	MOTOR OUTPUT	W	IP24	
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	142	
	RATED RUNNING CURRENT	A	0.62	
	MOTOR OUTPUT	W	75	
	POLES		6	
COMPRESSOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR	mF	45.0	
	RATED INPUT POWER	W	2360	
	RATED RUNNING CURRENT	A	11.27	
	LOCKED ROTOR AMP.	A	63	

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Electrical Data - Heat Pump (R410A)

MODEL	INDOOR UNIT		A5WM 301R	
	OUTDOOR UNIT		A5LC 28CR	
INDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	71	
	RATED RUNNING CURRENT	A	0.30	
	MOTOR OUTPUT	W	IP24	
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	142	
	RATED RUNNING CURRENT	A	0.62	
	MOTOR OUTPUT	W	75	
	POLES		6	
COMPRESSOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR	mF	45.0	
	RATED INPUT POWER (COOLING)	W	2360	
	RATED INPUT POWER (HEATING)	W	2242	
	RATED RUNNING CURRENT (COOLING)	A	11.27	
	RATED RUNNING CURRENT (HEATING)	A	10.70	
	LOCKED ROTOR AMP.	A	63	

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Wiring Diagram

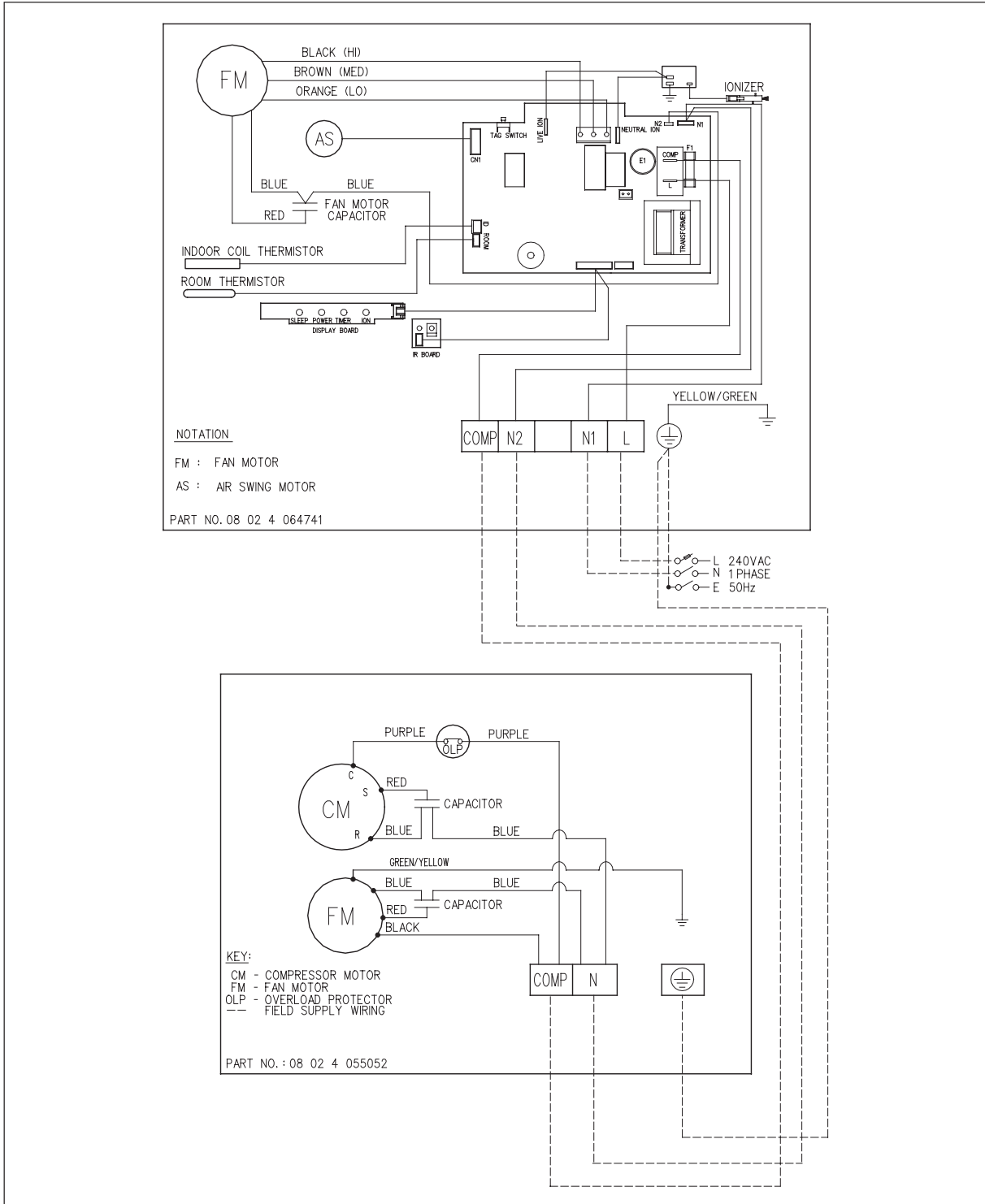
Cooling Only

Indoor Unit

Model: **AWM 07/09/10G**
A5WM 07/09/10/15G

Outdoor Unit

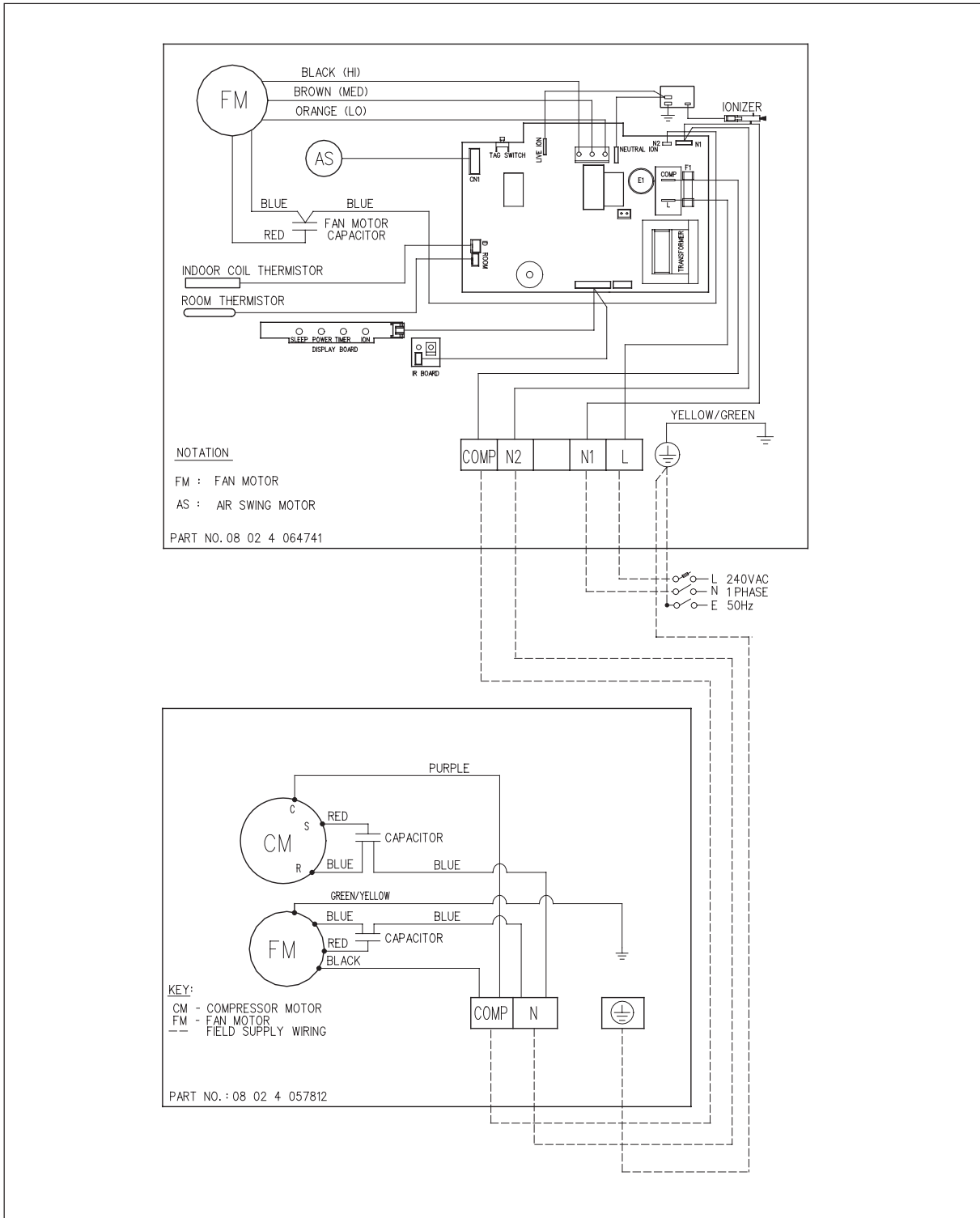
Model: **ALC 07/09/10C**
A5LC 07/10/15C



Cooling Only

Indoor Unit
Model: AWM 15G

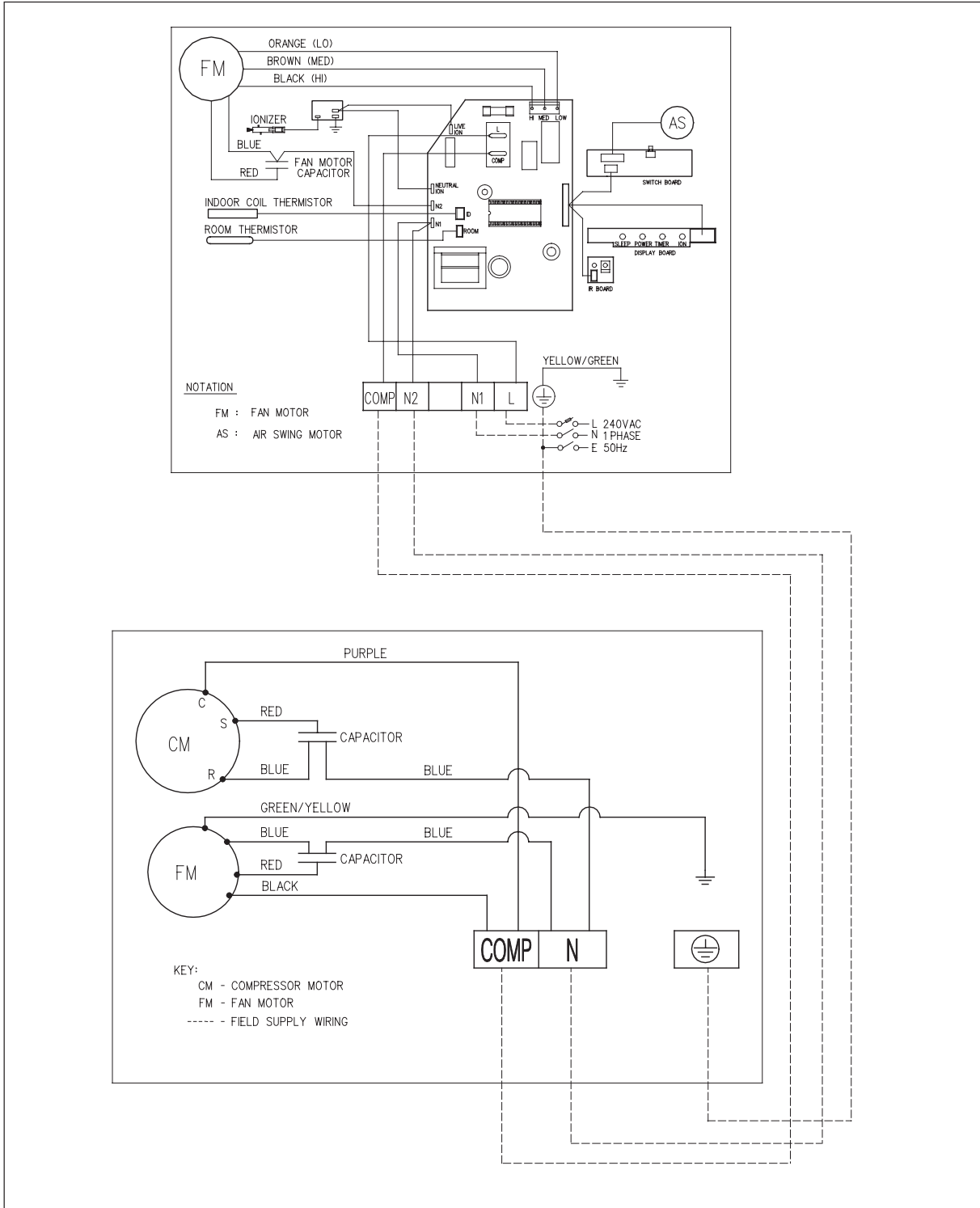
Outdoor Unit
Model: ALC 15C



Cooling Only

Indoor Unit
Model: AWM 20/25G
A5WM 20/25G

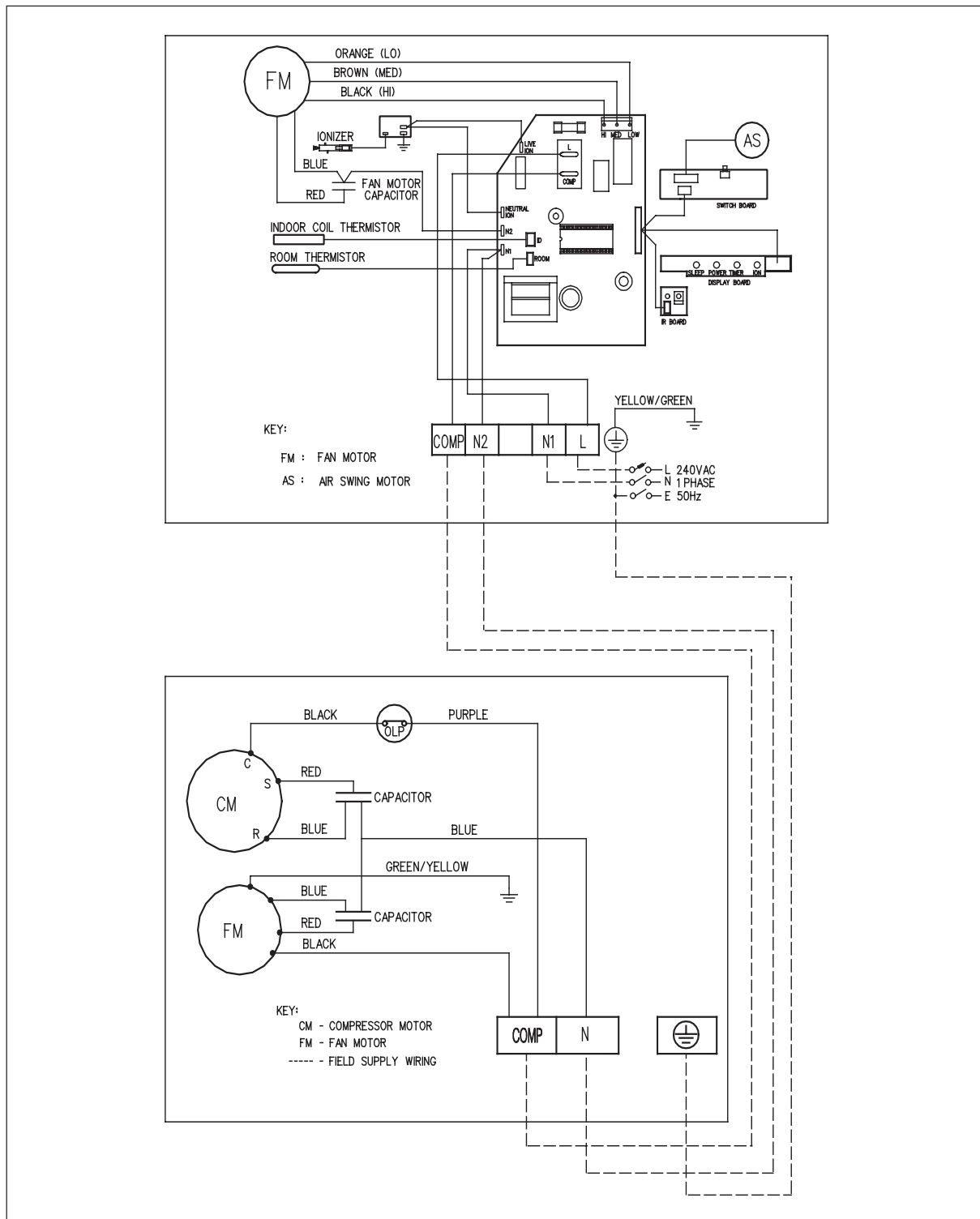
Outdoor Unit
Model: ALC 20/25C
A5LC 20/25C



Cooling Only

Indoor Unit
Model: AWM 20G

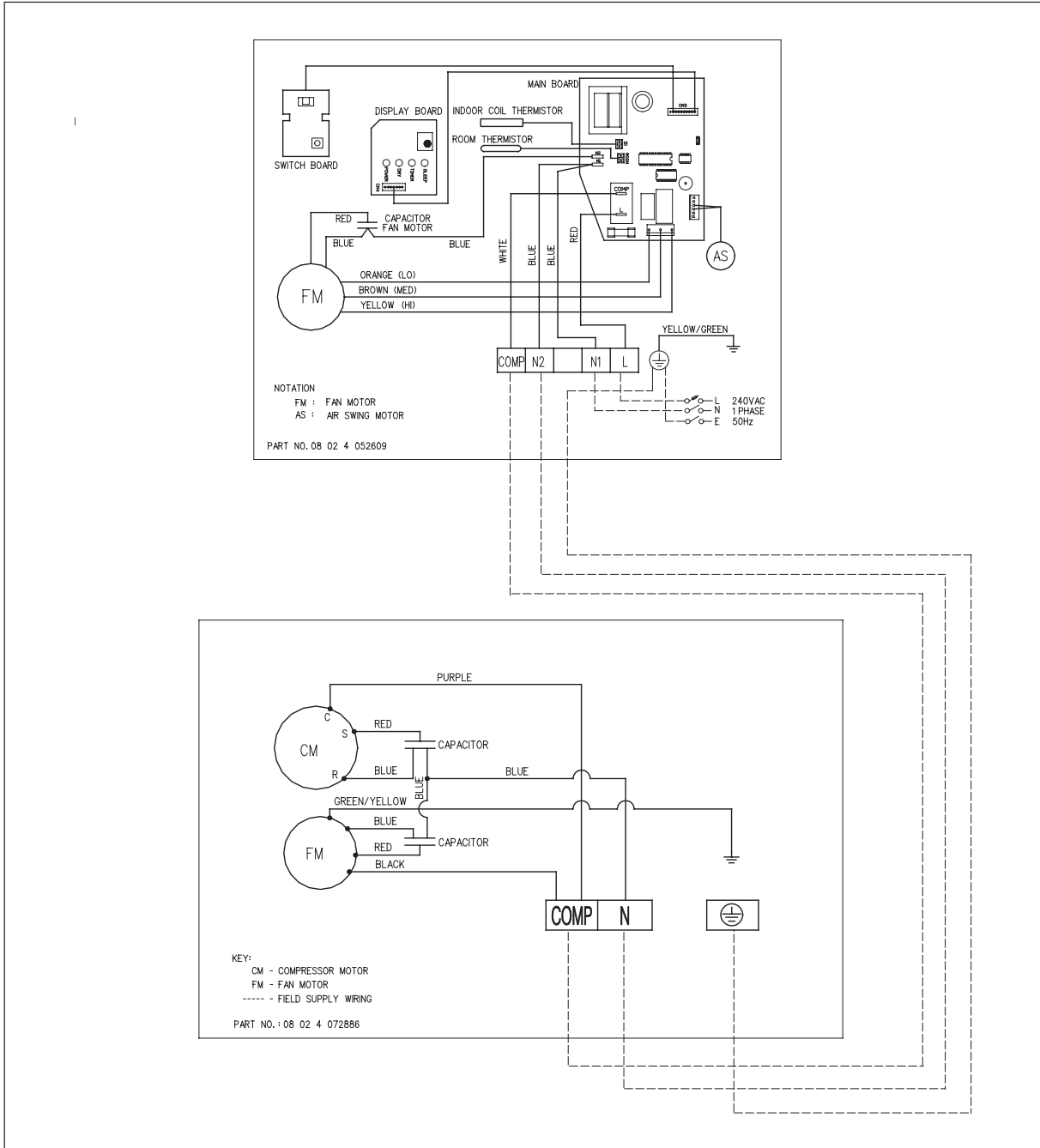
Outdoor Unit
Model: ALC 18C



Cooling Only

Indoor Unit
Model: AWM 301
A5WM 311

Outdoor Unit
Model: ALC 28C
A5LC 28C



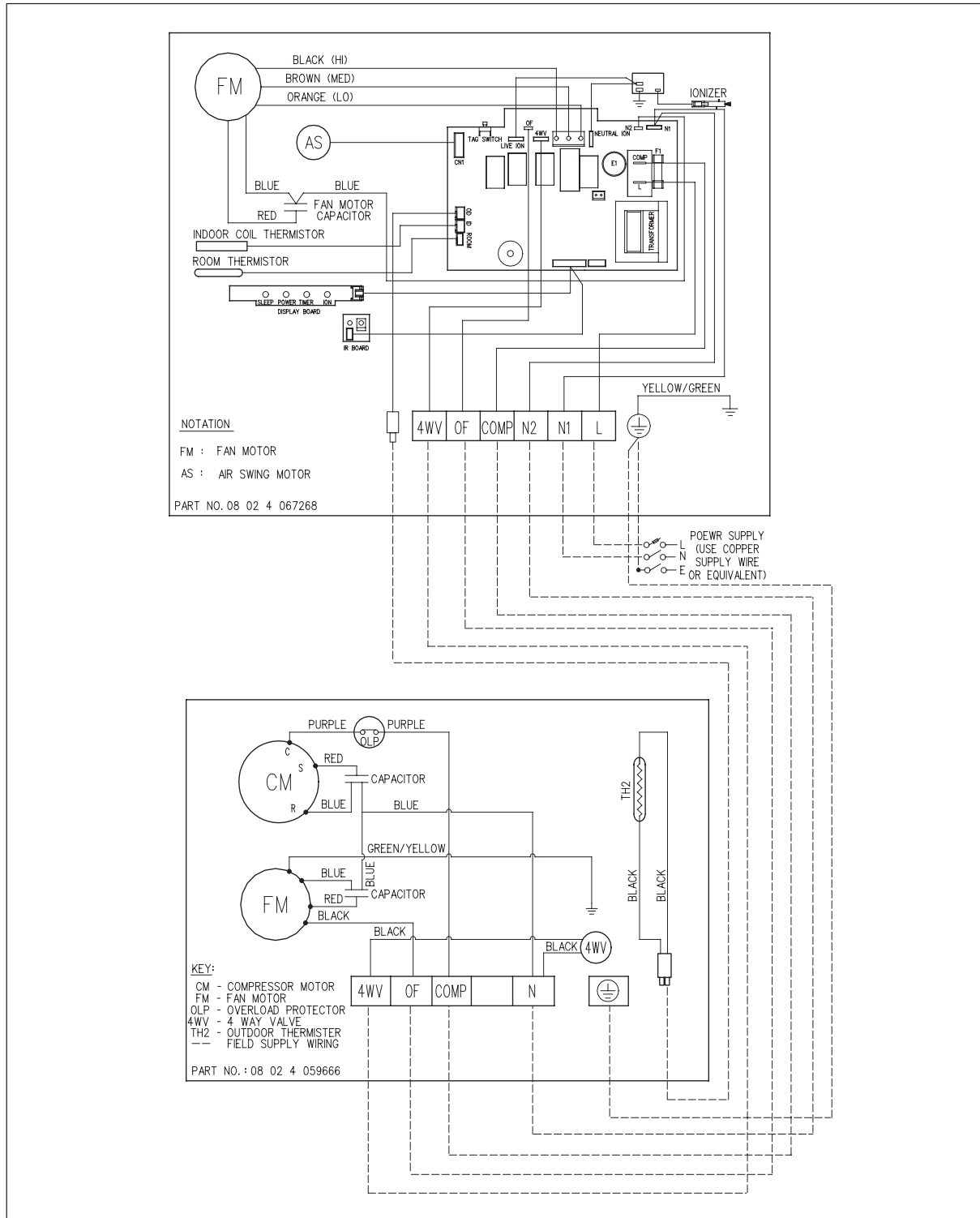
Heat Pump

Indoor Unit

Model: **AWM 09/10GR**
A5WM 07/10/15GR

Outdoor Unit

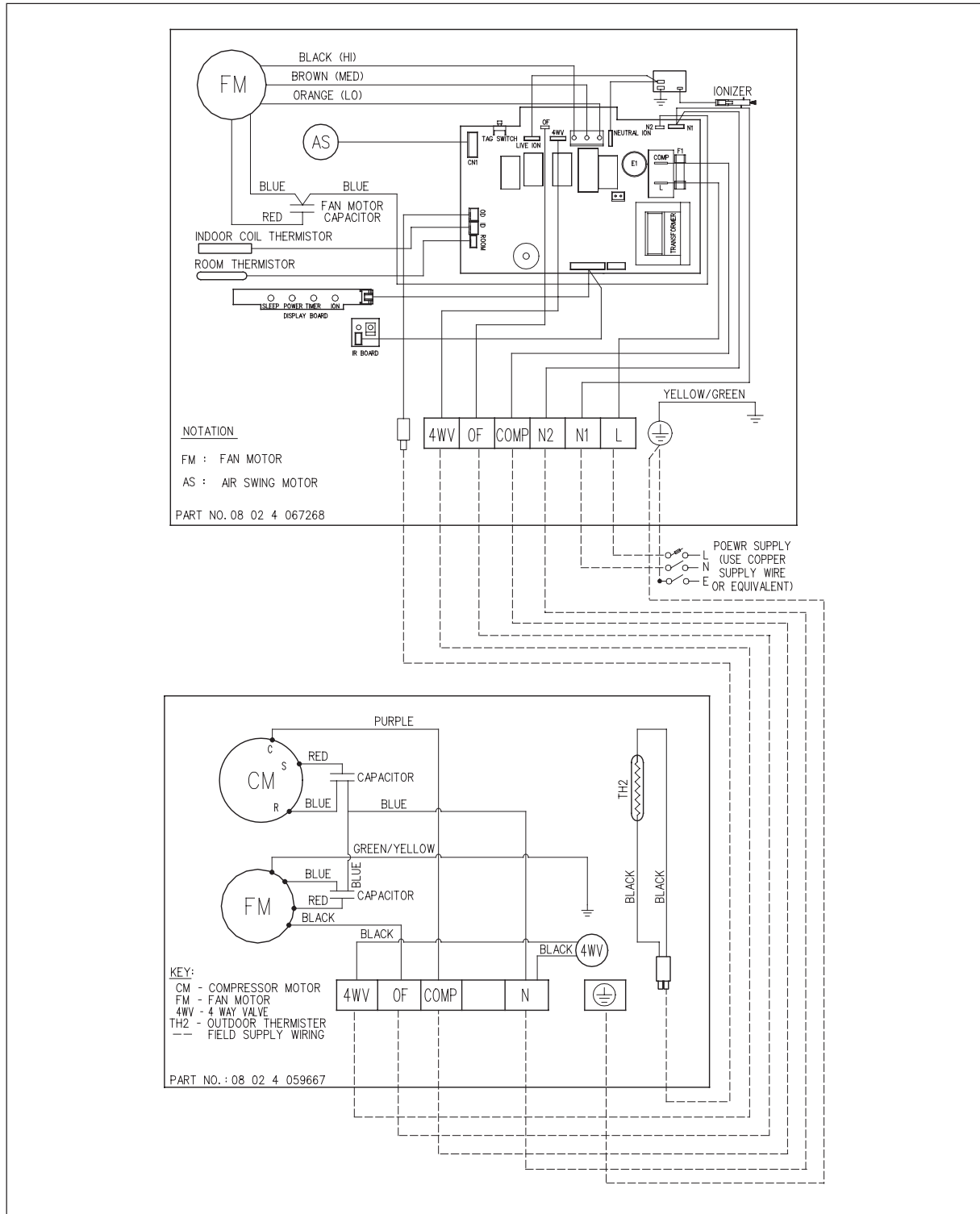
Model: **ALC 09/10CR**
A5LC 07/10/15CR



Heat Pump

Indoor Unit
Model: AWM 15GR

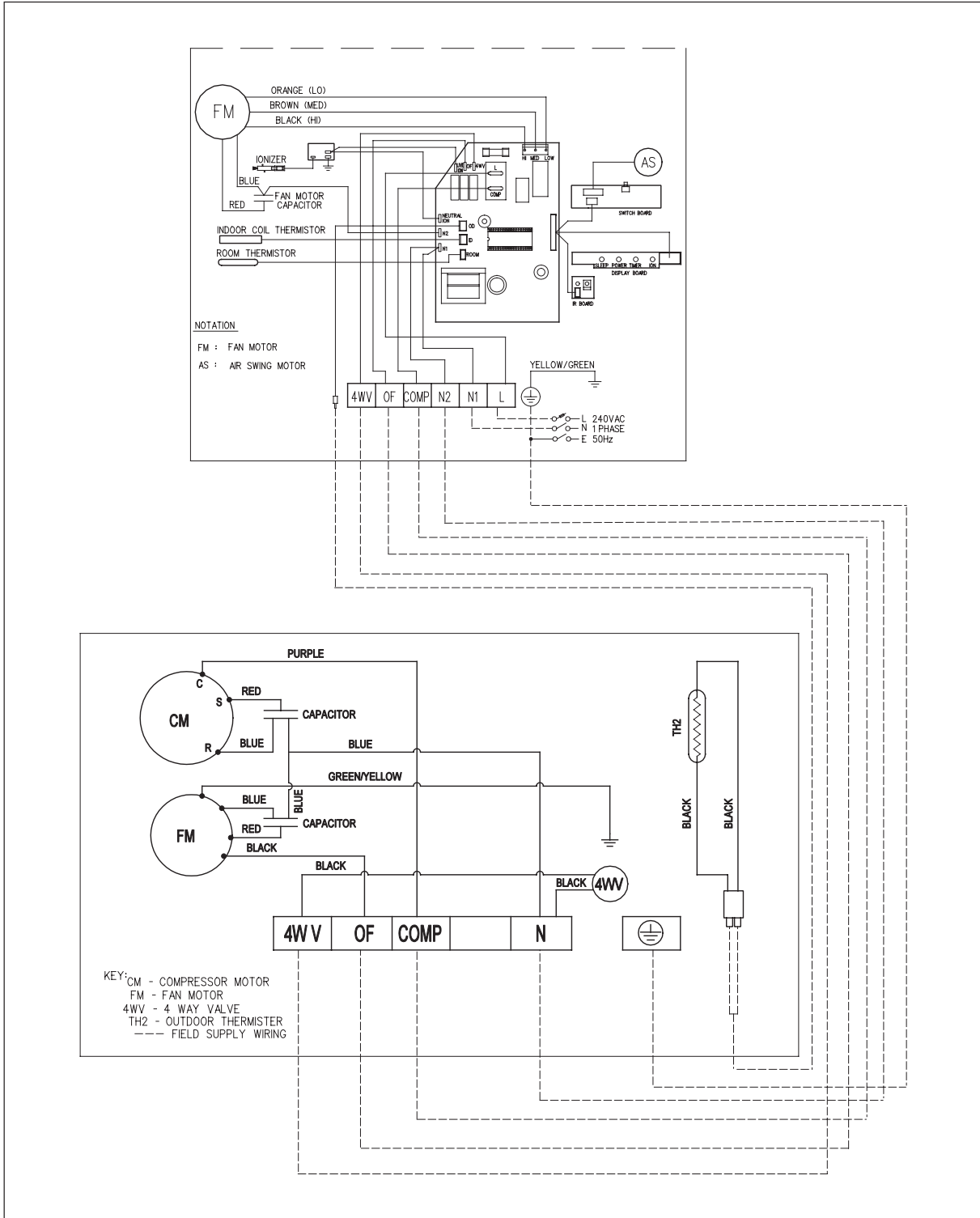
Outdoor Unit
Model: ALC 15CR



Heat Pump

Indoor Unit
Model: AWM 20/25GR
A5WM 20/25GR

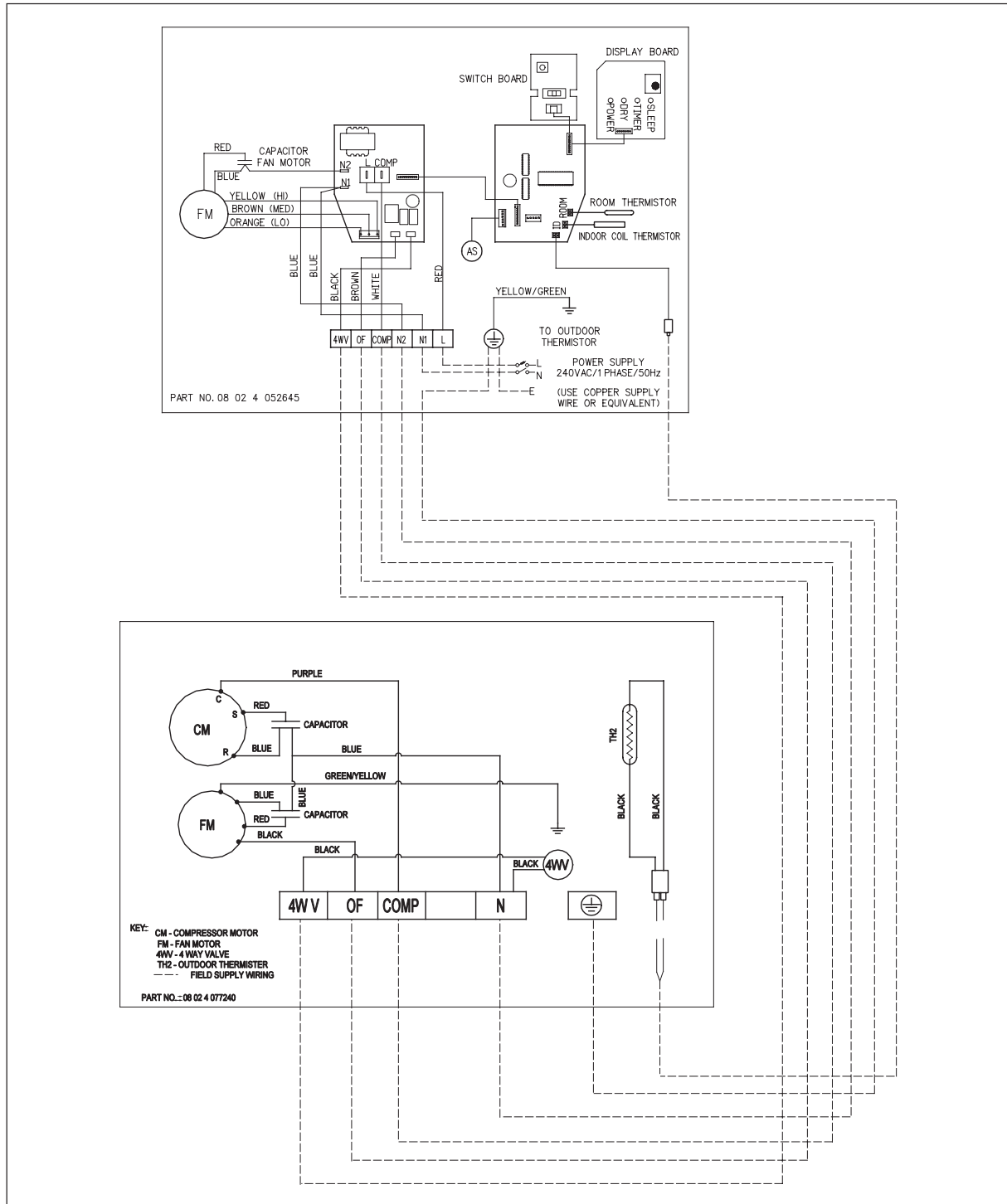
Outdoor Unit
Model: ALC 20/25CR
A5LC 20/25CR



Heat Pump

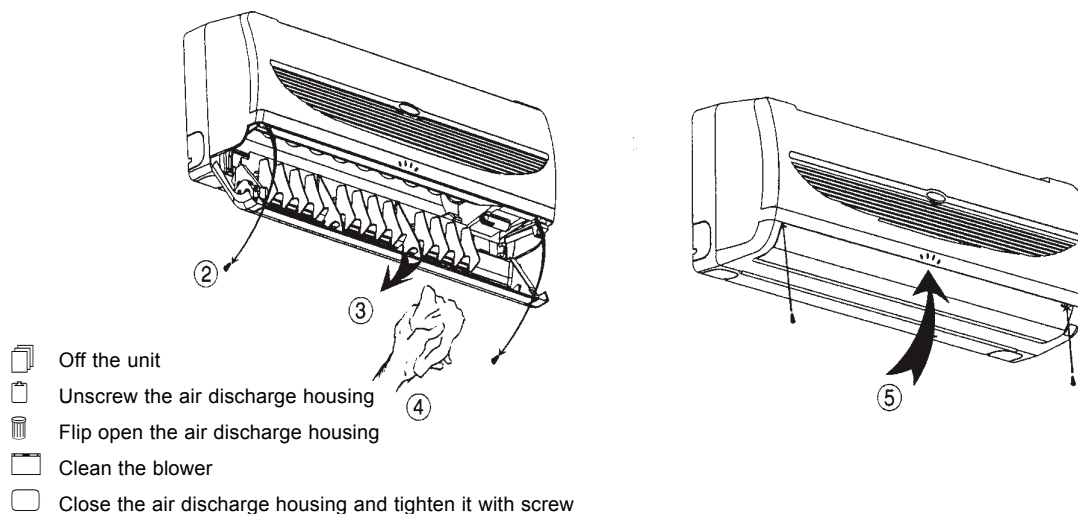
Indoor Unit
Model: AWM 301R
A5WM 301R

Outdoor Unit
Model: ALC 28CR
A5LC 28CR



Service and Maintenance

Indoor Models



Warning

- The unit is designed to give a long life operation with minimum maintenance required. However, it should be regularly checked and the following items should be given due attention.

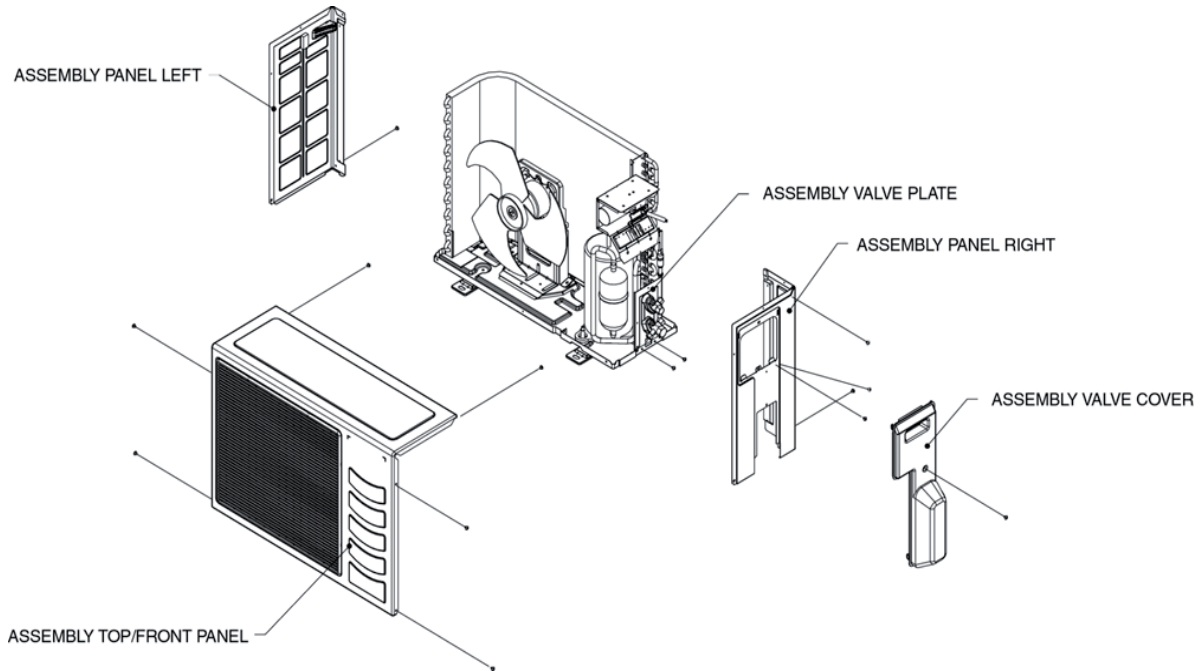
Components	Maintenance Procedures	Period
Air Filter (Indoor Unit)	<ol style="list-style-type: none"> Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40°C/104°F) with a neutral cleaning detergent. Rinse the filter well and dry before placing it back onto the unit. Do not use gasoline, volatile substances or chemicals to clean the filter. 	At least once every 2 weeks. More frequently if necessary.
Indoor Unit	<ol style="list-style-type: none"> Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40°C/104°F) and a neutral detergent solution. Do not 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	<ol style="list-style-type: none"> Check and clean. 	Every 3 months.
Indoor Fan	<ol style="list-style-type: none"> Check for unusual noise. 	As necessary.
Indoor / Outdoor Coil	<ol style="list-style-type: none"> Check and remove dirt which are clogged between fins. Check and remove obstacles which hinder air flow in and out of indoor/outdoor unit. 	Every month.
Electrical	<ol style="list-style-type: none"> Check voltage, current and wiring. Check faulty contacts caused by loose connections, foreign matters, etc. 	Every 2 months.
Compressor	<ol style="list-style-type: none"> No maintenance needed if refrigerant circuit remains sealed. However, check for refrigerant leak at joints and fittings. 	Every 6 months.
Compressor Lubrication	<ol style="list-style-type: none"> Oil is factory charged. Not necessary to add oil if circuit remains sealed. 	No maintenance required.
Fan Motors Lubrication	<ol style="list-style-type: none"> All motors pre-lubricated and sealed at factory. 	No maintenance required.

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 ALC outdoor series allows servicing to be carried out readily and easily. The removal of the top/front and back panel make almost every part accessible.



Under normal circumstances, these outdoor units only require a check and cleaning of air intake coil surface once quarterly. 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

Error Code / 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.	<ul style="list-style-type: none"> The auto restart function is not functioning. Please turn on the unit with the wireless / wired controller.
2	The compressor does not operate 3 minutes after the air conditioner unit is started.	<ul style="list-style-type: none"> Protection against frequent starting. Wait for 3 or 4 minutes for the compressor to start operating by it self.
3	The airflow is too slow or room cannot be cooled sufficiently.	<ul style="list-style-type: none"> 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.
4	Discharge airflow has bad odor.	<ul style="list-style-type: none"> Cigarettes, smoke particles, perfume and others, which might have adhered onto the coil, may cause odor. Contact your nearest dealer.
5	Condensation on the front air grille of the indoor unit.	<ul style="list-style-type: none"> 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.
6	Water flowing out from the air conditioner.	<ul style="list-style-type: none"> Switch off the unit and contact your nearest dealer. This might be due to tilted installation.
7	Hissing airflow sound from the air conditioner unit during operation.	<ul style="list-style-type: none"> Liquid refrigerant flowing into the evaporator coil.
8	The wireless controller display is dim.	<ul style="list-style-type: none"> The batteries are discharged. The batteries are not correctly inserted. The assembly is not good.
9	Compressor operates continuously.	<ul style="list-style-type: none"> 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.
10	No cool air comes out during cooling cycle, or no hot air comes out during heating cycle.	<ul style="list-style-type: none"> Temperature setting too high (cooling). Use lower temperature setting. Temperature setting too low (heating). Use higher temperature setting.
11	On heating cycle, warm air does not come out.	<ul style="list-style-type: none"> Unit is in defrost mode. Heating operation will resume after defrost cycle ends.

Diagnostic Guidelines

By means of pressure readings:

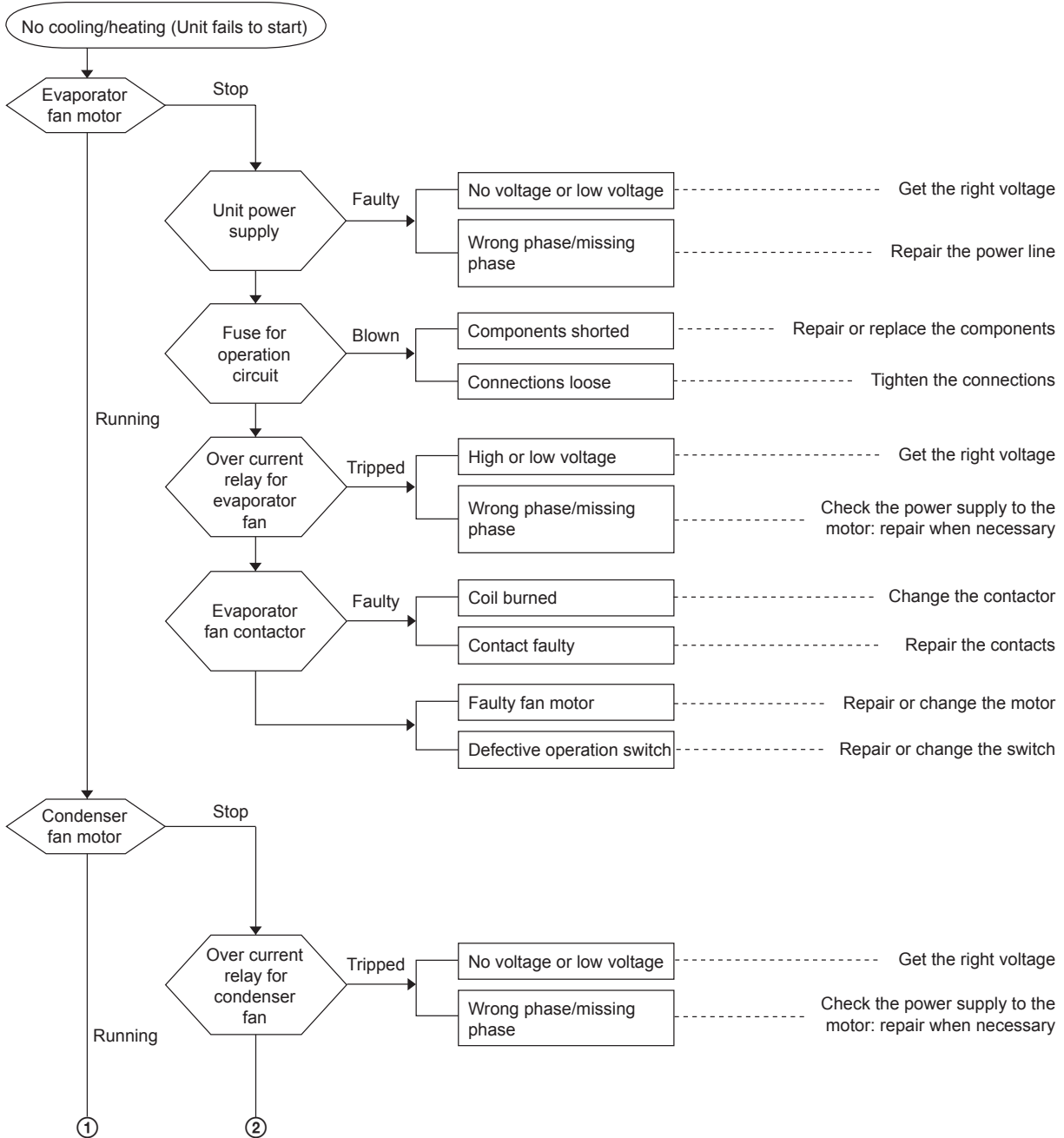
Circuit \ Data	Pressure					Probable cause
	Too low	A little low	Normal	A little high	Too high	
High side Low side					•	<ul style="list-style-type: none"> 1. Overcharged with refrigerant. 2. Non-condensable gases in refrigerant circuit (e.g. air) 3. Obstructed air-intake / discharge. 4. Hot air short circuiting in outdoor unit.
High side Low side	•				•	<ul style="list-style-type: none"> 1. Poor compression /no compression (compressor defective) 2. Reversing valve leaking.
High side Low side	•	•				<ul style="list-style-type: none"> 1. Undercharged with refrigerant. 2. Refrigerant leakage. 3. Air filter clogged / dirty (indoor unit). 4. Indoor fan locked / seized. 5. Defective defrost control, outdoor coil freeze up (heating). 6. Outdoor fan locked / seized (heating).
High side Low side				•	•	<ul style="list-style-type: none"> 1. Outdoor fan blocked (cooling). 2. Outdoor coil dirty (cooling). 3. Indoor fan locked / seized (heating). 4. Indoor air filter clogged / dirty (heating). 5. Non-condensable gases in refrigerant circuit (e.g. air)
High side Low side				•	•	<ul style="list-style-type: none"> 1. Air intake temperature of indoor unit too high.

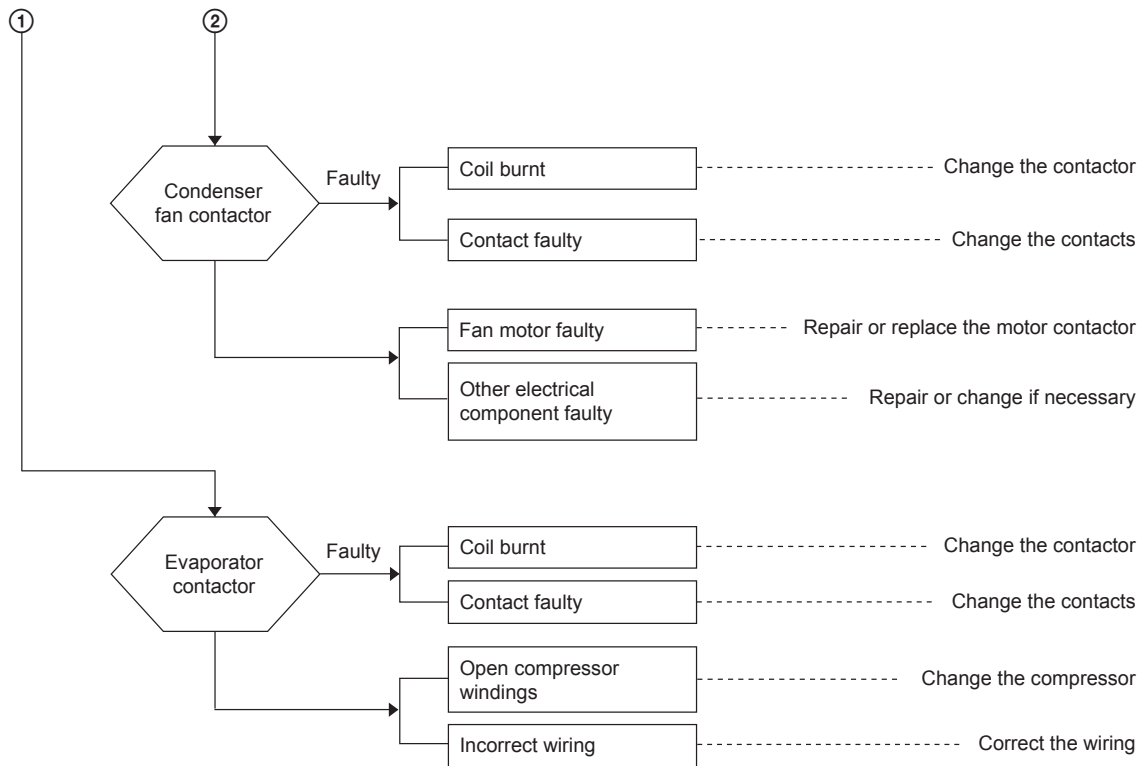
By means of diagnostic flow chart:

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

: Faulty
 : Check
 : Cause
 : Remedy



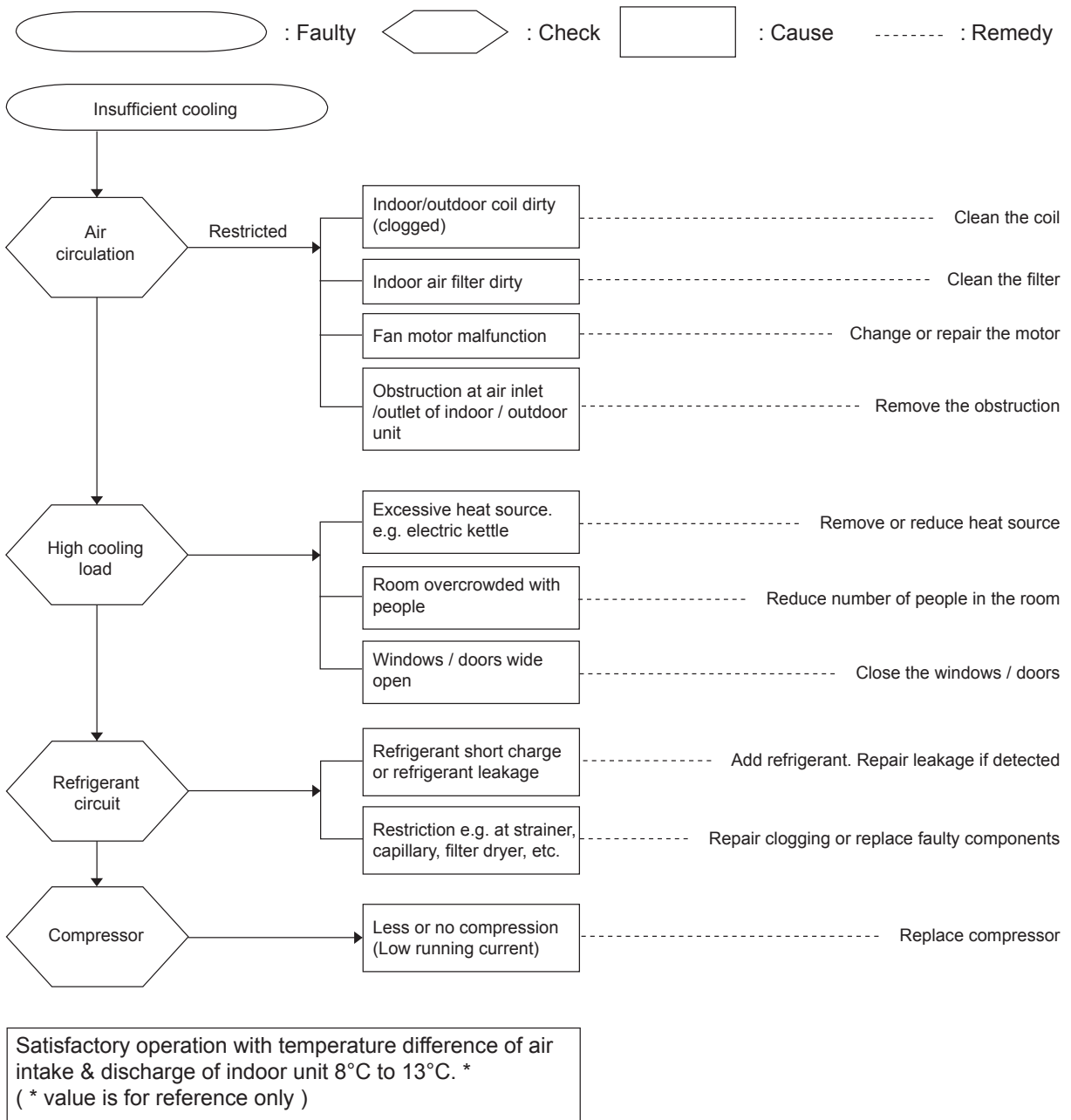


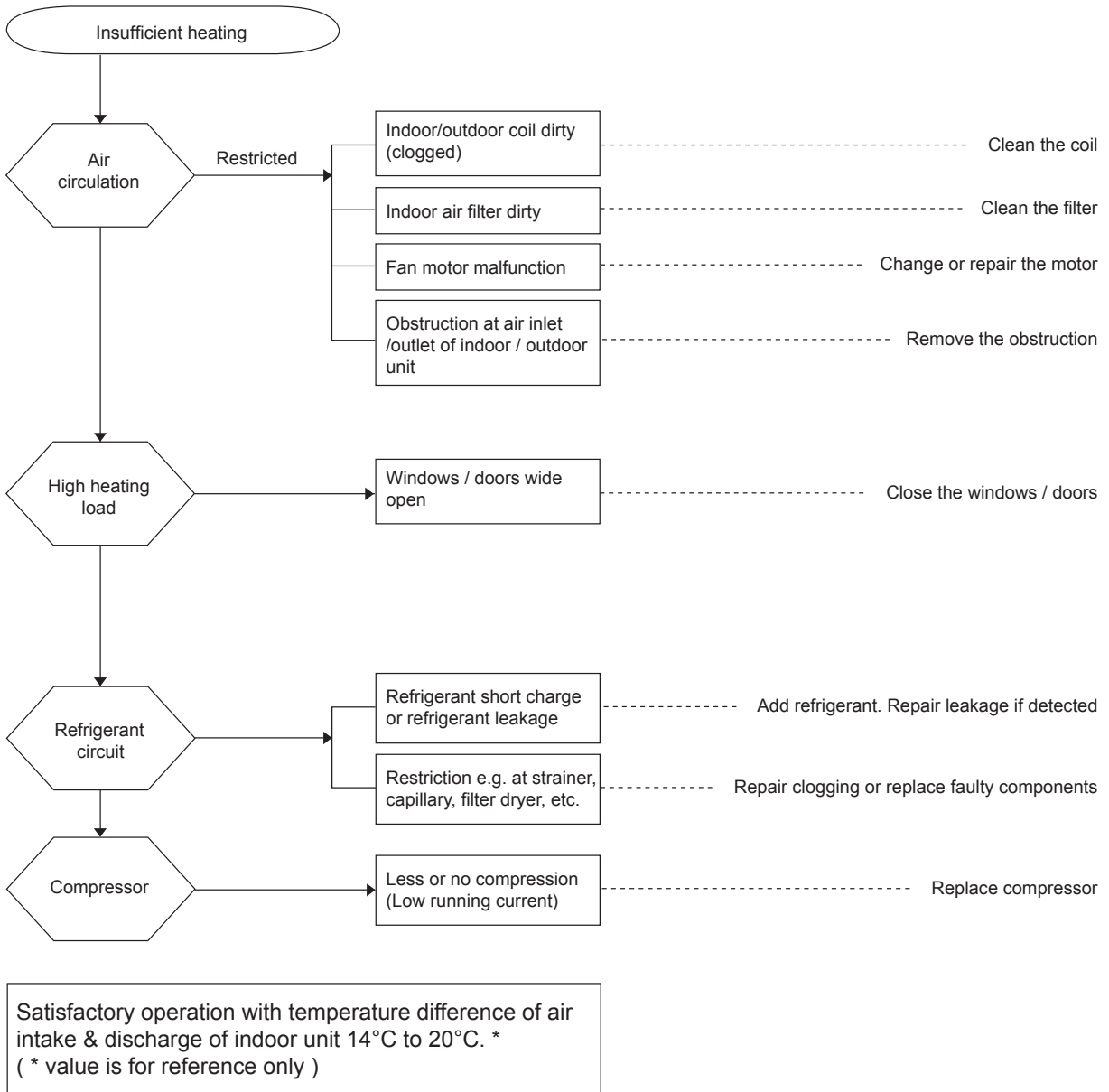
The most common causes of air conditioner failure to “start” are :

- a) Voltage not within $\pm 10\%$ 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.





Indicator Lights

AWM / A5WM - G SERIES

IR Signal Receiver

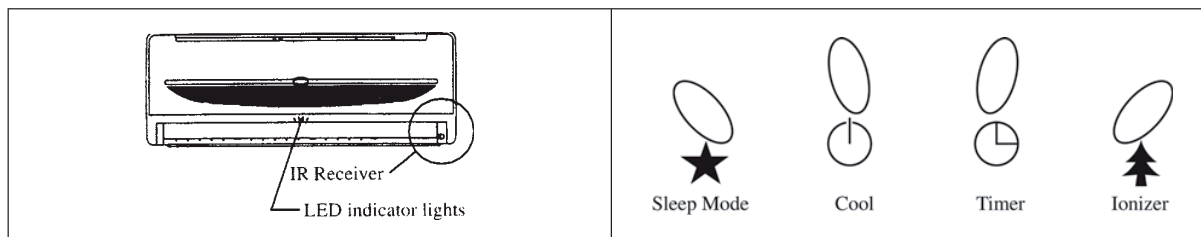
When there is infrared remote control operating signal, the signal receiver on indoor unit will make a (beep) for signal acceptance confirmation.

Cooling unit / Heatpump unit





































The table below shows the LED indicator light for air conditioner unit under normal operation and fault condition. The LED indicator lights are located at the middle of the air conditioner unit.

The heat pump units is equipped with an "auto" mode, where by the unit will provide reasonable room temperature by switching the unit automatically to either "cool" mode or "heat" mode, according to the temperature setting set by the user.

LED Indicator Lights for Cooling Unit / Heatpump Unit



LED Indicator Lights : Normal Operation and Fault Indication Table

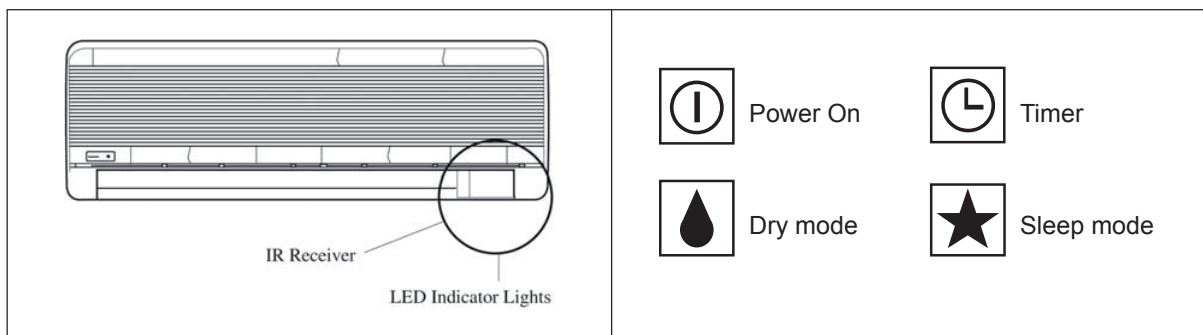
	 COOL/HEAT (GREEN/RED)			Normal Operation / Fault Indication	Action
	 Green			Cool mode	-
	 Red			Heat mode	-
	 Red			Auto mode in Heating operation	-
	 Green			Auto mode in Cooling operation	-
				Timer on	-
				Sleep mode on	-
				Ionizer on	-
				Fan mode on	-
				Dry mode on	-
	 1 time			Room air sensor contact Loose / Short	Call your dealer
	 3 times			Outdoor coil sensor open	Call your dealer
	 2 times			Indoor coil sensor open	Call your dealer
		 1 time		Compressor overload / Indoor coil sensor short / Outdoor coil sensor short	Call your dealer
	 Red			Defrost operation	-
		 3 times		Gas leak	Call your dealer
		 5 times		Outdoor coil sensor exist (MS mode)	Call your dealer
		 6 times		Hardware error (tact switch pin short)	Call your dealer

 ON  ON or OFF  Blinking





Note: The unit will not detect sensor missing when the compressor is ON.

AWM 301 / 301R , A5WM 311 / 301R

LED Indicator Lights for Cooling Unit



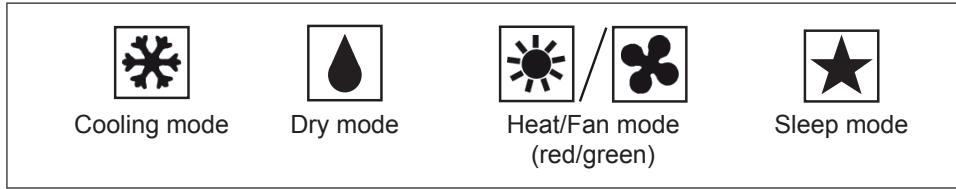
LED Indicator Lights : Normal Operation and Fault Conditions for Cooling Unit

 Power	 Dry	 Timer	 Sleep	Normal Operation / Fault Indication	Action
○		○		Timer on	-
○			○	Sleep mode on	-
○	○			Dry mode on	-
● (blinking)	○/●			Frost prevention	Clean the filter and switch to high fan
● (blinking) once every 2 sec.	○			Room air sensor contact loose / short	Call your dealer
● (blinking) twice every 2 sec.	○			Indoor coil sensor contact loose / short	Call your dealer
● (blinking) 3 times every 2 sec.	○		○/●	Sensor contact problem, compressor overload protection trip or gas leak	Call your dealer






○ ON ○/● ON or OFF ● (blinking) Blinking

Note: The unit will not detect sensor missing when the compressor is ON.

LED Indicator Lights For Heatpump Unit



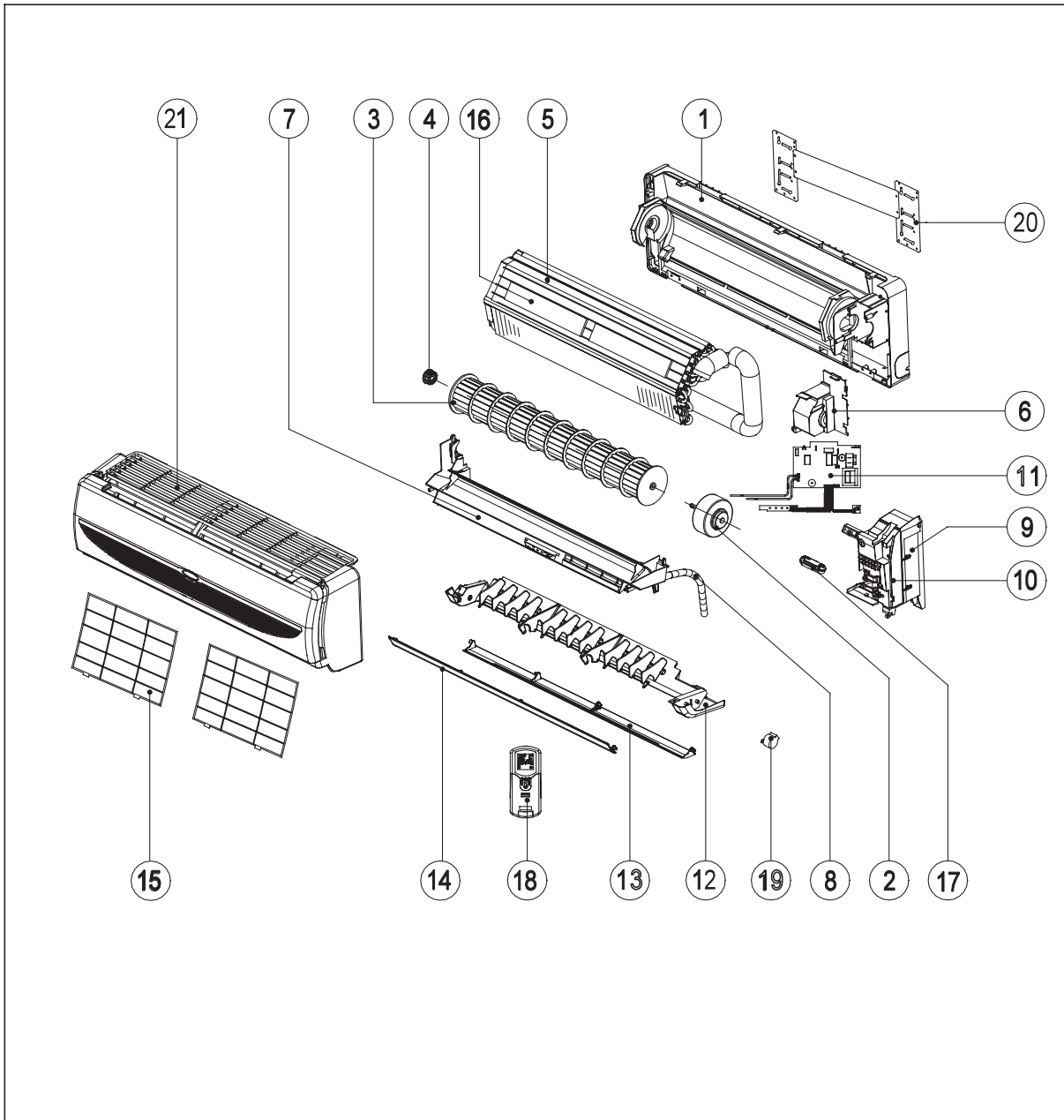
LED Indicator Lights : Normal Operation and Fault Conditions for Cooling Unit

 Cool	 Dry	 Fan	 Heat	 Sleep	Normal Operation / Fault Indication	Action
○				○/●	Cooling mode	-
	○				Dry mode	-
		○			Fan mode	-
			○	○/●	Heat mode	-
●			○	○/●	Auto mode in heating operation	-
○			●	○/●	Auto mode in cooling operation	-
			●		Defrost operation	-
●					Compressor overload protection	Call your dealer
				●	Indoor coil sensor contact loose/short	Call your dealer
	●				Outdoor coil sensor contact loose/short	Call your dealer
		●			Room air sensor contact loose/short	Call your dealer
●	●				If the system is in cool mode or heat mode (with the sleep function off), the sensor may have a contact problem, compressor overload protection trip or gas leak.	

○ ON ○/● ON or OFF ● Blinking

Note: The unit will not detect sensor missing when the compressor is ON.

Exploded View and Part List

INDOOR UNIT**MODEL: AWM/A5WM 07/09/10/15G/GR**

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

INDOOR UNIT
MODEL: AWM/A5WM 07/09/10/15G

No	Description	Part Number
1	Assy. Chassis	
	AWM/A5WM 07/09G	R50124064147
	AWM/A5WM 10/15G	R50124064151
2	Fan Motor	
	AWM 07/09G	R03034092650
	A5WM 07/09G	R03034064425
	AWM/A5WM 10G	R03034071487
	AWM/A5WM 15G	R03034064426
3	Cross Flow Fan	
	AWM/A5WM 07/09G	R03029019462
	AWM/A5WM 10/15G	R03029019461
4	Fan Bush	R11014029514
5	Assy. Indoor Coil	
	AWM 07/09G	R50024091785
	A5WM 07/09G	R50024063765
	AWM/A5WM 10G	R50024064225
	AWM/A5WM 15G	R50024066054
6	Piping Clamp	R12014060544
7	Assy. Drain Pan	
	AWM/A5WM 07/09G	R50124064148
	AWM/A5WM 10/15G	R50124064152
8	Drain Hose	R10024018204
9	Assy. Control Box	R50044085731
10	Assy. Control Box Cover	R50124064666
11	Control Module	R04084064635
12	Assy. Air Discharge Housing	
	AWM/A5WM 07/09G	R50124085606
	AWM/A5WM 10/15G	R50124085608

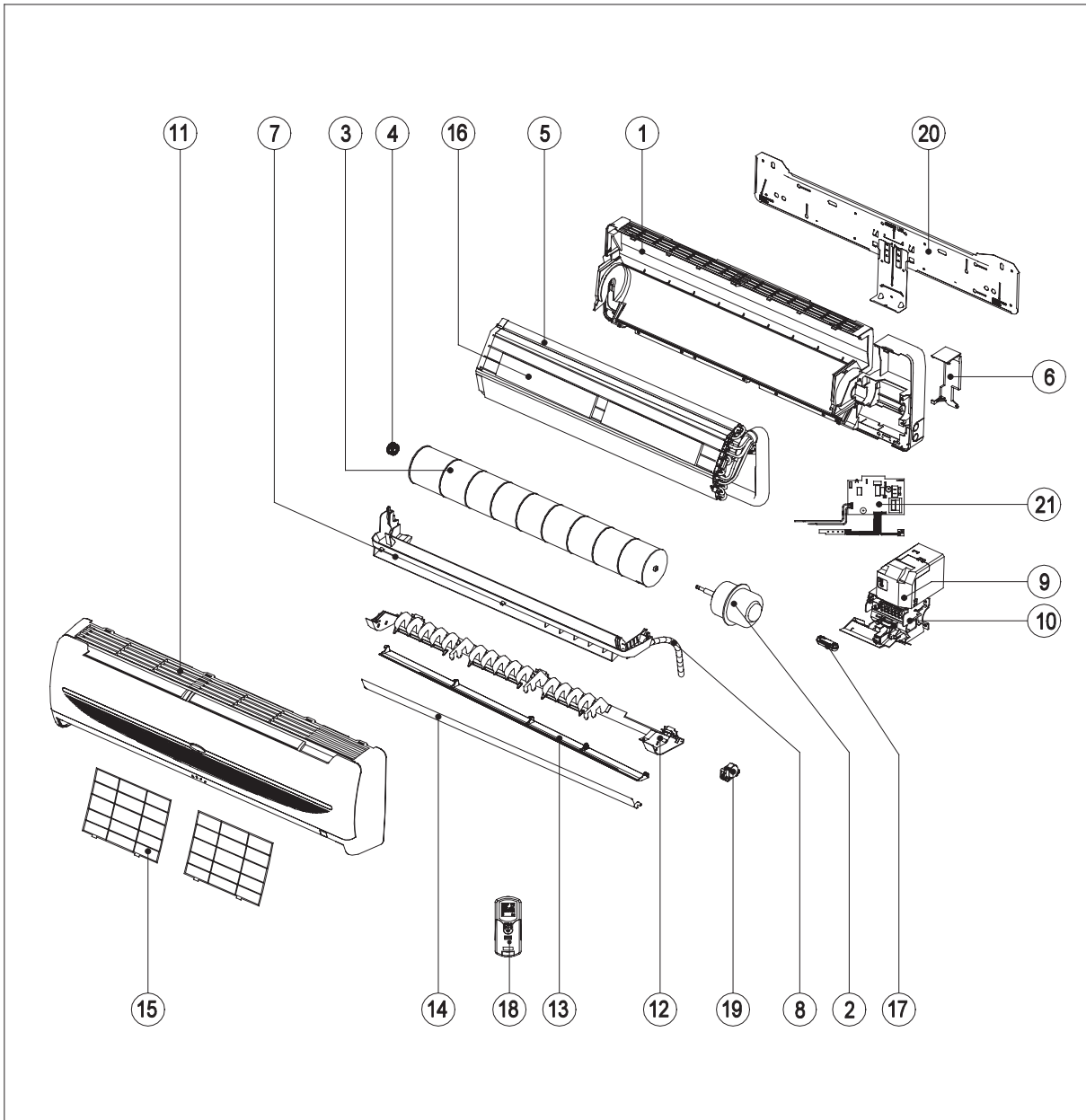
No	Description	Part Number
13	Top Louver	
	AWM/A5WM 07/09G	R12014085590
	AWM/A5WM 10/15G	R12014085592
14	Bottom Louver	
	AWM/A5WM 07/09G	R12014085591
	AWM/A5WM 10/15G	R12014085593
15	Filter	
	AWM/A5WM 07/09G	R12014062320
	AWM/A5WM 10/15G	R12014062321
16	Nanosilver Filter	
	AWM/A5WM 07/09G	R12014084996
	AWM/A5WM 10/15G	R12014080141
	Nanovis Filter	
	AWM/A5WM 07/09G	R12014084997
17	AWM/A5WM 10/15G	R12014080143
	Ionizer	R04239019730
18	Handset, Wireless G18	R04084100951
19	Air Swing Motor	R03039021375
20	Assy. Mounting Plate	
	AWM/A5WM 07/09G	R50014061333
	AWM/A5WM 10/15G	R50014062324
21	Assy. Front Cover	
	AWM/A5WM 07/09G	R50124084806
	AWM/A5WM 10/15G	R50124084807
Parts Not In Diagram		
	Service Panel	R12014060547

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

INDOOR UNIT
MODEL: AWM/A5WM 07/09/10/15GR

No	Description	Part Number	No	Description	Part Number
1	Assy. Chassis		13	Top Louver	
	AWM/A5WM 07/09GR	R50124064147		AWM/A5WM 07/09GR	R12014085590
	AWM/A5WM 10/15GR	R50124064151		AWM/A5WM 10/15GR	R12014085592
2	Fan Motor		14	Bottom Louver	
	AWM/A5WM 07/09GR	R03034064425		AWM/A5WM 07/09GR	R12014085591
	AWM/A5WM 10GR	R03034071487		AWM/A5WM 10/15GR	R12014085593
	AWM/A5WM 15GR	R03034064426	15	Filter	
3	Cross Flow Fan			AWM/A5WM 07/09GR	R12014062320
	AWM/A5WM 07/09GR	R03029019462		AWM/A5WM 10/15GR	R12014062321
	AWM/A5WM 10/15GR	R03029019461	16	Nanosilver Filter	
4	Fan Bush	R11014029514		AWM/A5WM 07/09GR	R12014084996
	5	Assy. Indoor Coil			AWM/A5WM 10/15GR
AWM/A5WM 07/09GR		R50024063765		Nanovis Filter	
AWM/A5WM 10GR		R50024064225		AWM/A5WM 07/09GR	R12014084997
AWM/A5WM 15GR		R50024066054		AWM/A5WM 10/15GR	R12014080143
6	Piping Clamp	R12014060544	17	Ionizer	R04239019730
7	Assy. Drain Pan		18	Handset, Wireless G18	R04084100952
	AWM/A5WM 07/09GR	R50124064148	19	Air Swing Motor	R03039021375
	AWM/A5WM 10/15GR	R50124064152	20	Assy. Mounting Plate	
8	Drain Hose	R10024018204		AWM/A5WM 07/09GR	R50014061333
	AWM/A5WM 10/15GR	R50124064152		AWM/A5WM 10/15GR	R50014062324
9	Assy. Control Box	R50044085737	21	Assy. Front Cover	
10	Assy. Control Box Cover	R50124074570		AWM/A5WM 07/09GR	R50124084806
11	Control Module	R04084067263		AWM/A5WM 10/15GR	R50124084807
12	Assy. Air Discharge Housing		Parts Not In Diagram		
	AWM/A5WM 07/09GR	R50124085606		Service Panel	R12014060547
	AWM/A5WM 10/15GR	R50124085608			

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**INDOOR UNIT
MODEL: AWM/A5WM 20/25G/GR**

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

INDOOR UNIT

MODEL: AWM/A5WM 20/25G

No	Description	Part Number
1	Assy. Chassis	R50124068170
2	Fan Motor	
	AWM/A5WM 20G	R03034074205
	AWM/A5WM 25G	R03034074204
3	Cross Flow Fan	R03029029158
4	Fan Bush	R11014023775
5	Assy. Indoor Coil	
	AWM 20G	R50024072203
	A5WM 20G	R50024074031
	AWM 25G	R50024072204
	A5WM 25G	R50024072203
6	Piping Clamp	R12014071297
7	Assy. Drain Pan	R50124068171
8	Assy. Drain Hose	R10024015319
9	Assy. Control Box	R50044071955

No	Description	Part Number
10	Assy. Control Box Cover	R50124071418
11	Assy. Front Cover	R50124071425
12	Assy. Air Discharge Housing	R50124071426
13	Top Louver	R12014066820
14	Bottom Louver	R12014066821
15	Filter	R12014066832
16	Nanosilver Filter	R12014080142
	Nanovis Filter	R12014080144
17	Ionizer	R04239022932
18	Handset, Wireless G18	R04084100951
19	Air Swing Motor	R03039022933
20	Assy. Mounting Plate	R50014036133
21	Control Module	R04084071971
Parts Not In Diagram		
	Rivet (SR-5057) - White	R07074049285

INDOOR UNIT

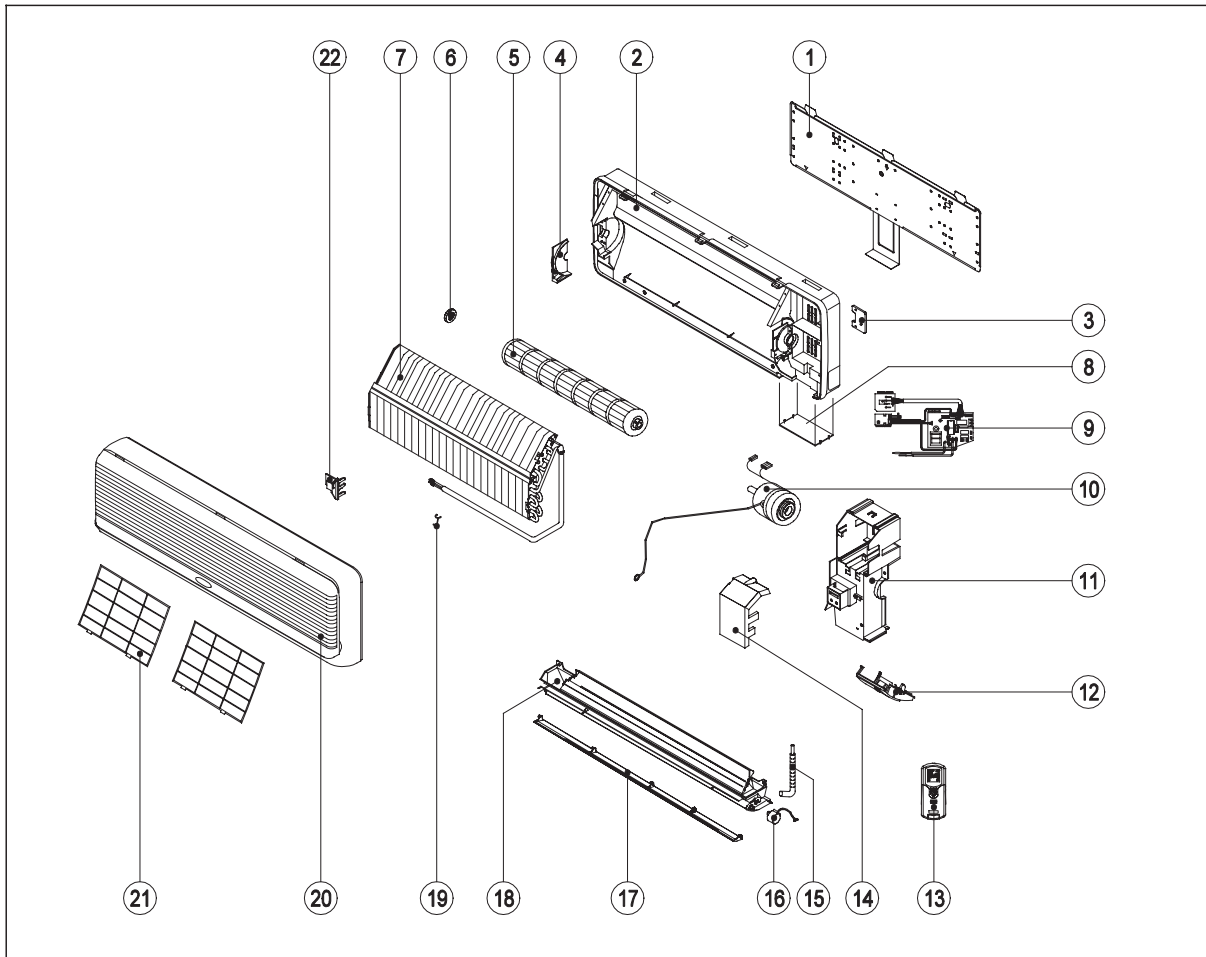
MODEL: AWM/A5WM 20/25GR

No	Description	Part Number
1	Assy. Chassis	R50124068170
2	Fan Motor	
	AWM/A5WM 20GR	R03034074205
	AWM/A5WM 25GR	R03034074204
3	Cross Flow Fan	R03029209158
4	Fan Bush	R11014023775
5	Assy. Indoor Coil	
	AWM 20GR	R50024072203
	A5WM 20GR	R50024074031
	AWM 25GR	R50024072204
	A5WM 25GR	R50024072203
6	Piping Clamp	R12014071297
7	Assy. Drain Pan	R50124068171
8	Assy. Drain Hose	R10024015319
9	Assy. Control Box	R50044071960

No	Description	Part Number
10	Assy. Control Box Cover	R50124074432
11	Assy. Front Cover	R50124071425
12	Assy. Air Discharge Housing	R50124071426
13	Top Louver	R12014066820
14	Bottom Louver	R12014066821
15	Filter	R12014066832
16	Nanosilver Filter	R12014080142
	Nanovis Filter	R12014080144
17	Ionizer	R04239022932
18	Handset, Wireless G18	R04084100952
19	Air Swing Motor	R03039022933
20	Assy. Mounting Plate	R50014036133
21	Control Module	R04084071973
Parts Not In Diagram		
	Rivet (SR-5057) - White	R07074049285

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

INDOOR UNIT
MODEL: AWM 301/301R, A5WM 311/301R



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

INDOOR UNIT
MODEL: AWM 301, A5WM 311

No	Description	Part Number
1	Assy. Installation Bracket	R50014050721
2	Assy. Chassis	R50124050703
3	Piping Clamp	R07014024546
4	Fan Bush Bracket	R12014050709
5	Cross Flow Fan	R03029013842
6	Fan Bush	R11019013841
7	Assy. Coil	
	AWM 301	R50024050710
	A5WM 311	R50024084359
8	Service Panel	R12014050685
9	Control Module	R04084090222
10	Fan Motor	R03034052105
11	Assy. Control Box	R50044090264
12	LED Light Bracket	R12014050679
13	Handset, Wireless G18	R04084103441

No	Description	Part Number
14	Control Box Cover	R12014050681
15	Assy. Drain Hose	R10024015319
16	Air Swing Motor	R03039007088
17	Air Louver	R12014050717
18	Assy. Air Discharge Housing	R50124050712
19	Coil Sensor Clip	R07054021183
20	Assy. Front Cover	R50124050723
21	Saranet Filter	R12014050726
22	Thermistor Holder	
	AWM 301	R12014000432
	A5WM 311	R12014016707
Parts Not in Diagram		
	Assy. Orifice Pipe	
	AWM 301	R50024063203

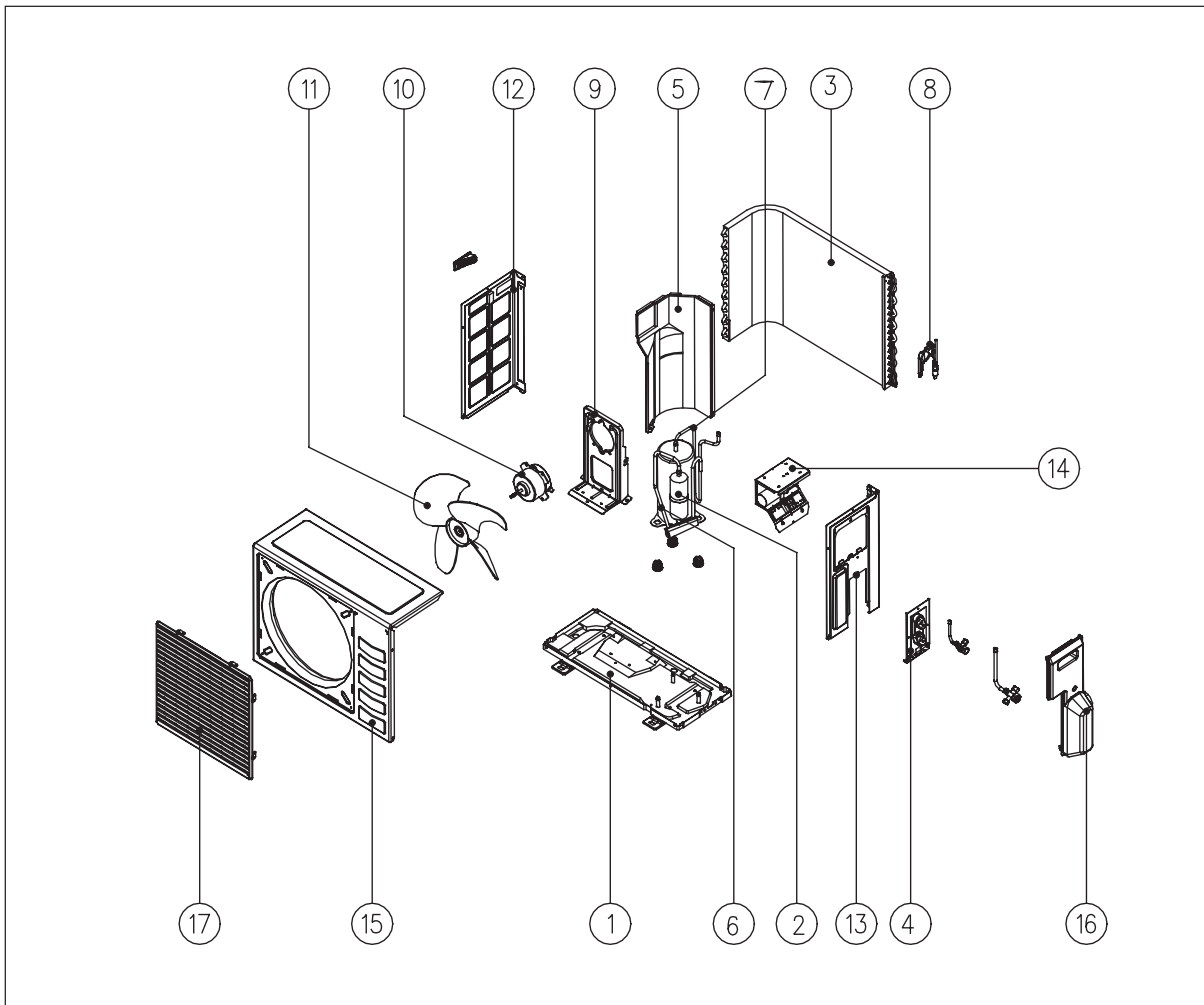
INDOOR UNIT
MODEL: AWM 301R, A5WM 301R

No	Description	Part Number
1	Assy. Installation Bracket	R50014050721
2	Assy. Chassis	R50124050703
3	Piping Clamp	R07014024546
4	Fan Bush Bracket	R12014050709
5	Cross Flow Fan	R03029013842
6	Fan Bush	R11019013841
7	Assy. Coil	
	AWM 301R	R50024050710
	A5WM 301R	R50024084359
8	Service Panel	R12014050685
9	Control Module	R04084090162
10	Fan Motor	R03034052105
11	Assy. Control Box	R50044090014

No	Description	Part Number
12	LED Light Bracket	R12014050679
13	Handset, Wireless G18	R04084103443
14	Control Box Cover	R12014050681
15	Assy. Drain Hose	R10024015319
16	Air Swing Motor	R03039007088
17	Air Louver	R12014050717
18	Assy. Air Discharge Housing	R50124050712
19	Coil Sensor Clip	R07054021183
20	Assy. Front Cover	R50124050723
21	Saranet Filter	R12014050726
22	Thermistor Holder	
	AWM 301R	R12014000432
	A5WM 301R	R12014016707

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

OUTDOOR UNIT MODEL: ALC 07C

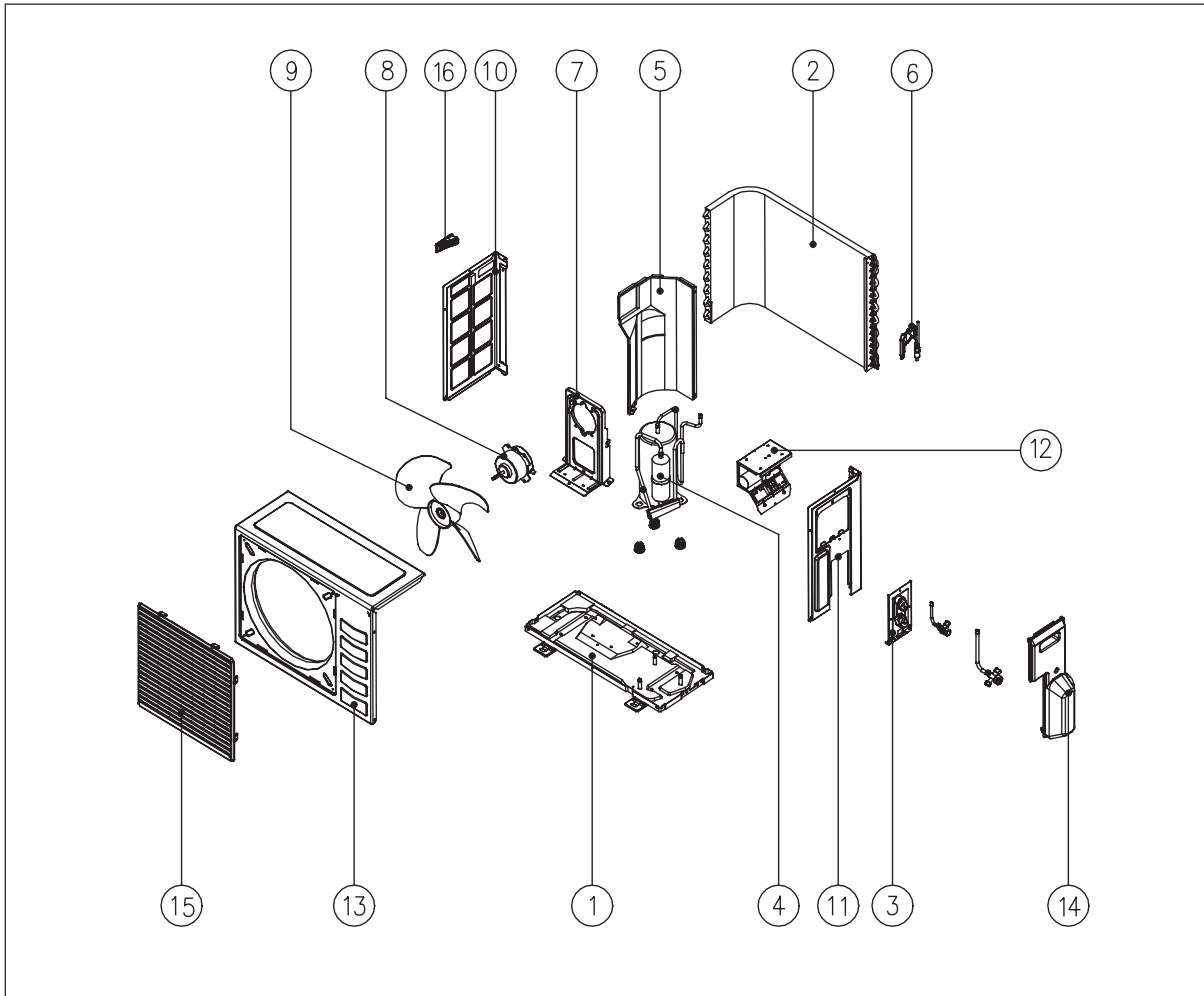


No	Description	Part Number
1	Assy. Base Pan	R50014057372
2	Compressor	R04019029041
3	Assy. Outdoor Coil	R50024087206
4	Valve Bracket	R01014051164
5	Assy. Partition	R50064084355
6	Assy. Suction Tube	R50024091725
7	Assy. Discharge Tube	R50024091724
8	Assy. Cap Tube	R50024091764
9	Bracket, Fan Motor	R01014052516
10	Fan Motor	R03039028206
11	Fan Propeller	R03019020744
12	Left Panel	R01014052510Y

No	Description	Part Number
13	Right Panel	R01014084434Y
14	Assy. Control Panel	R50044092695
15	Top/Front Panel	R01014052512Y
16	Assy. Valve Cover	R50124055172
17	Assy. Front Grille	R50124093629
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026755
	Capacitor, Compressor	R04029026772
	Assy. Flare Valve 2 Ways 1/4"	R50059029814
	Assy. Flare Valve 3 Ways 3/8"	R50059029815

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

OUTDOOR UNIT MODEL: ALC 09C/CR



OUTDOOR UNIT MODEL: ALC 09C

No	Description	Part Number
1	Assy. Base Pan	R50014057372
2	Assy. Outdoor Coil	R50024087206
3	Valve Bracket	R01014051164
4	Compressor	R04019027628
5	Assy. Partition	R50064084355
6	Assy. Cap Tube	R50024087403
7	Bracket, Fan Motor	R01014052516
8	Fan Motor	R03039028206
9	Fan Propeller	R03019020744
10	Left Panel	R01014052510Y
11	Right Panel	R01014084434Y
12	Assy. Control Panel	R50044089886

No	Description	Part Number
13	Top/Front Panel	R01014052512Y
14	Assy. Valve Cover	R50124055172
15	Assy. Front Grille	R50124093629
16	Plastic Handle	R12014057948
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026755
	Capacitor, Compressor	R04029026775
	Assy. Flare Valve 2 Ways 1/4"	R50059029814
	Assy. Flare Valve 3 Ways 3/8"	R50059029815

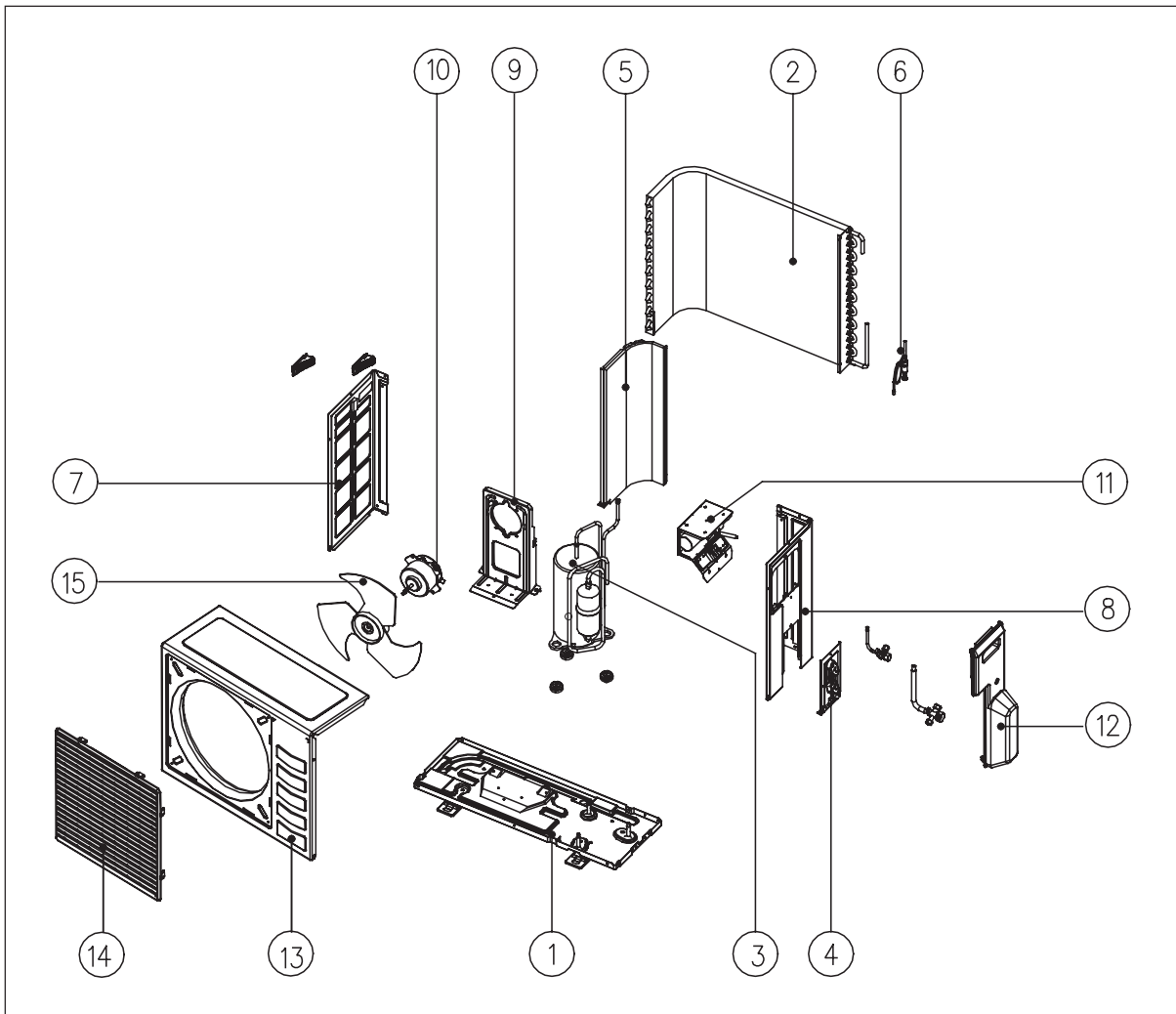
Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

OUTDOOR UNIT
MODEL: ALC 09CR

No	Description	Part Number
1	Assy. Base Pan	R50014057372
2	Assy. Outdoor Coil	R50024092722
3	Valve Bracket	R01014051164
4	Compressor	R04019027628
5	Assy. Partition	R50064084355
6	Assy. Cap Tube	R50024092846
7	Bracket, Fan Motor	R01014052516
8	Fan Motor	R03039028206
9	Fan Propeller	R03019020744
10	Left Panel	R01014052510Y
11	Right Panel	R01014084434Y
12	Assy. Control Panel	R50044093283

No	Description	Part Number
13	Top/Front Panel	R01014052512Y
14	Assy. Valve Cover	R50124055172
15	Assy. Front Grille	R50124093629
16	Plastic Handle	R12014057948
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026755
	Capacitor, Compressor	R04029026775
	Assy. Flare Valve 2 Ways 1/4"	R50059029814
	Assy. Flare Valve 3 Ways 3/8"	R50059029815
	Valve, Rev 4 Way	R05019004157

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

**OUTDOOR UNIT
MODEL: ALC 10/15C/CR**

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

OUTDOOR UNIT
MODEL: ALC 10/15C

No	Description	Part Number
1	Assy. Base Pan	R50014051158
2	Assy. Outdoor Coil	
	ALC 10C	R50024085384
	ALC 15C	R50024087838
3	Compressor	
	ALC 10C	R04019019550
	ALC 15C	R04019027709
4	Valve Bracket	R01014051164
5	Assy. Partition	R50064055063
6	Assy. Cap Tube	
	ALC 10C	R50024085382
	ALC 15C	R50024087757
7	Left Panel	R01014051166Y
8	Right Panel	R01014051167Y
9	Bracket, Fan Motor	R01014051162Y
10	Fan Motor	
	ALC 10C	R03039016104
	ALC 15C	R03039015323

No	Description	Part Number
11	Assy. Control Panel	R50044086056
12	Assy. Valve Cover	R50124051173
13	Top/Front Panel	R01014051171Y
14	Assy. Front Grille	R50124093630
15	Fan Propeller	R03019015339
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026755
	Capacitor, Compressor	R04029026775
	Assy. Flare Valve 2 Ways 1/4"	
	ALC 10/15C	R50059029814
	Assy. Flare Valve 3 Ways 1/2"	
	ALC 15C	R50059029816
	Assy. Flare Valve 3 Ways 3/8"	
	ALC 10C	R50059029815

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

OUTDOOR UNIT

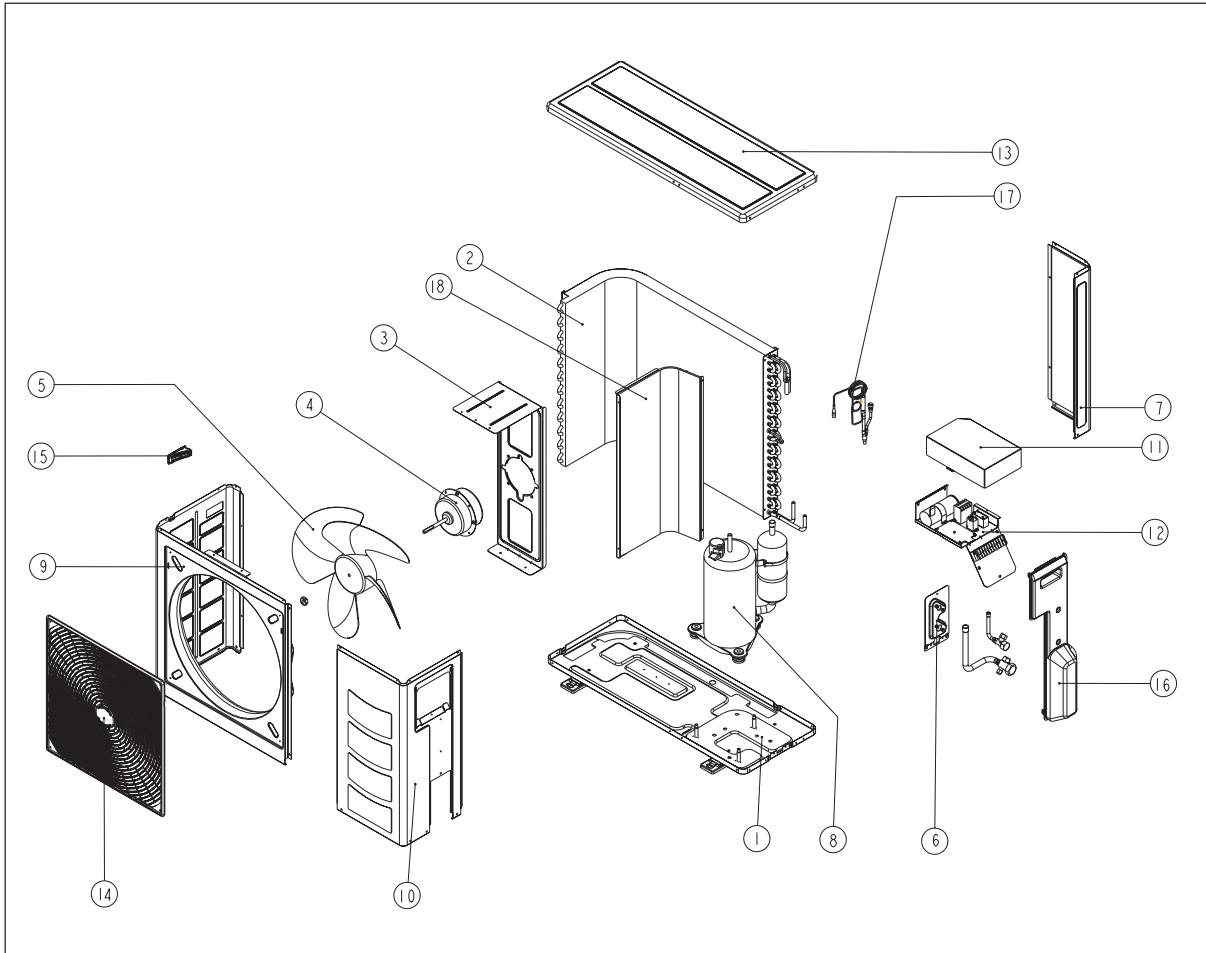
MODEL: ALC 10/15CR

No	Description	Part Number
1	Assy. Base Pan	R50014051158
2	Assy. Outdoor Coil	
	ALC 10CR	R50024085384
	ALC 15CR	R50024060071
3	Compressor	
	ALC 10CR	R04019019550
	ALC 15CR	R04019019125
4	Valve Bracket	R01014051164
5	Assy. Partition	R50064055063
6	Assy. Cap Tube	
	ALC 10CR	R50024085462
	ALC 15CR	R50024071222
7	Left Panel	R01014051166Y
8	Right Panel	R01014051167Y
9	Bracket, Fan Motor	R01014051162Y
10	Fan Motor	
	ALC 10CR	R03039016104
	ALC 15CR	R03039015323
11	Assy. Control Panel	
	ALC 10CR	R50044086062
	ALC 15CR	R50044086063

No	Description	Part Number
12	Assy. Valve Cover	R50124051173
13	Top/Front Panel	R01014051171Y
14	Assy. Front Grille	R50124093630
15	Fan Propeller	R03019015339
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026755
	Capacitor, Compressor	
	ALC 10CR	R04029026775
	ALC 15CR	R04029026776
	Assy. Flare Valve 2 Ways 1/4"	R50059029814
	Assy. Flare Valve 3 Ways 3/8"	
	ALC 10CR	R50059029815
	Assy. Flare Valve 3 Ways 1/2"	
	ALC 15CR	R50059029816
	Valve, Rev 4 Way	R05019004157

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

OUTDOOR UNIT
MODEL: ALC 18/20C/CR



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

OUTDOOR UNIT MODEL: ALC 18/20C

No	Description	Part Number
1	Assy. Base Pan	R50014078281
2	Assy. Outdoor Coil	
	ALC 18C	R50024089940
	ALC 20C	R50024084570
3	Bracket, Fan Motor	R01014070601
4	Fan Motor	R03039024539
5	Fan Propeller	R03019023393
6	Assy. Valve Bracket	R50014072861
7	Back Panel, Right	R01014070599
8	Compressor	R04019027266
9	Front Panel, Left	R01014070597Y
10	Service Panel	R01014070598
11	Terminal Cover Panel	R01014070838
12	Assy. Control Panel	R50044086133
13	Top Panel	R01014070596Y

No	Description	Part Number
14	Assy. Front Grille	R50124093631
15	Plastic Handle	R12014057948
16	Assy. Valve Cover	R50124072885
17	Assy. Cap Tube	
	ALC 18C	R50024089926
	ALC 20C	R50024087066
18	Partition	R01014070603
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026759
	Capacitor, Compressor	R04029026782
	Assy. Flare Valve 3 Ways 5/8"	R50059030462
	Assy. Flare Valve 2 Ways 1/4"	R50059030460
	Felt, Compressor	R06074084746

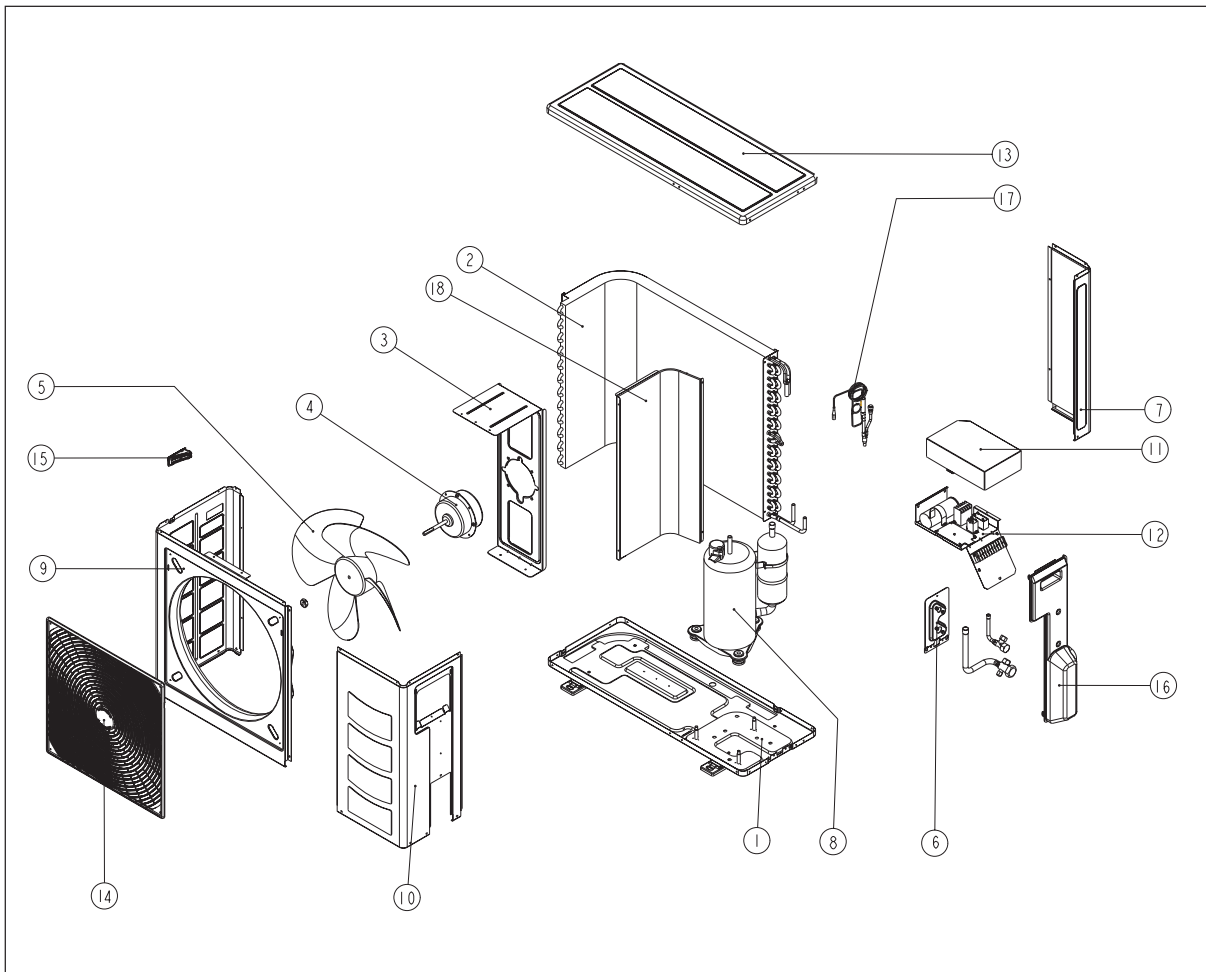
OUTDOOR UNIT MODEL: ALC 18/20CR

No	Description	Part Number
1	Assy. Base Pan	R50014078281
2	Assy. Outdoor Coil	
	ALC 18CR	R50024090296
	ALC 20CR	R50024075143
3	Bracket, Fan Motor	R01014070601
4	Fan Motor	R03039024539
5	Fan Propeller	R03019023393
6	Assy. Valve Bracket	R50014072861
7	Back Panel, Right	R01014070599
8	Compressor	R04019027266
9	Front Panel, Left	R01014070597Y
10	Service Panel	R01014070598
11	Terminal Cover Panel	R01014070838
12	Assy. Control Panel	R50044086143
13	Top Panel	R01014070596Y
14	Assy. Front Grille	R50124093631

No	Description	Part Number
15	Plastic Handle	R12014057948
16	Assy. Valve Cover	R50124072885
17	Assy. Cap Tube	
	ALC 18CR	R50024089931
	ALC 20CR	R50024087058
18	Partition	R01014070603
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026759
	Capacitor, Compressor	R04029026782
	Assy. Flare Valve 3 Ways 5/8"	R50059030462
	Assy. Flare Valve 2 Ways 1/4"	R50059030460
	Valve, Rev 4 Way	R05019004158
	Felt, Compressor	R06074084746

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

OUTDOOR UNIT MODEL: ALC 25/28C/CR



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

OUTDOOR UNIT

MODEL: ALC 25/28C

No	Description	Part Number
1	Assy. Base Pan	
	ALC 25C	R50014073884
	ALC 28C	R50014090627
2	Assy. Outdoor Coil	
	ALC 25C	R50024089206
	ALC 28C	R50024089206
3	Bracket, Fan Motor	R01014070948
4	Fan Motor	
	ALC 25C	R03039028207
	ALC 28C	R03039024538
5	Fan Propeller	R03019023393
6	Assy. Valve Bracket	R50014073890
7	Back Panel, Right	R01014070950Y
8	Compressor	
	ALC 25C	R04019027570
	Assy. Compressor	
	ALC 28C	R50049029625
9	Front Panel, Left	R01014070947Y
10	Service Panel	R01014070949Y
11	Terminal Cover Panel	R01014070838
12	Assy. Control Panel	
	ALC 25C	R50044086076
	ALC 28C	R50044092855

No	Description	Part Number
13	Top Panel	R01014070596Y
14	Assy. Front Grille	R50124093631
15	Plastic Handle	R12014057948
16	Assy. Valve Cover	R50124073905
17	Assy. Cap Tube	
	ALC 25C	R50024090095
	ALC 28C	R50024089206
18	Partition	R01014070951Y
Parts Not in Diagram		
	Capacitor, Fan Motor	
	ALC 25C	R04029026759
	ALC 28C	R04029026966
	Capacitor, Compressor	
	ALC 25C	R04029026779
	ALC 28C	R04029026782
	Assy. Flare Valve 3 Ways 5/8"	R50059030462
	Assy. Flare Valve 3 Ways 3/8"	R50059030463
	Felt, Compressor	
	ALC 25C	R06074084746
	ALC 28C	R06074079654

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OUTDOOR UNIT

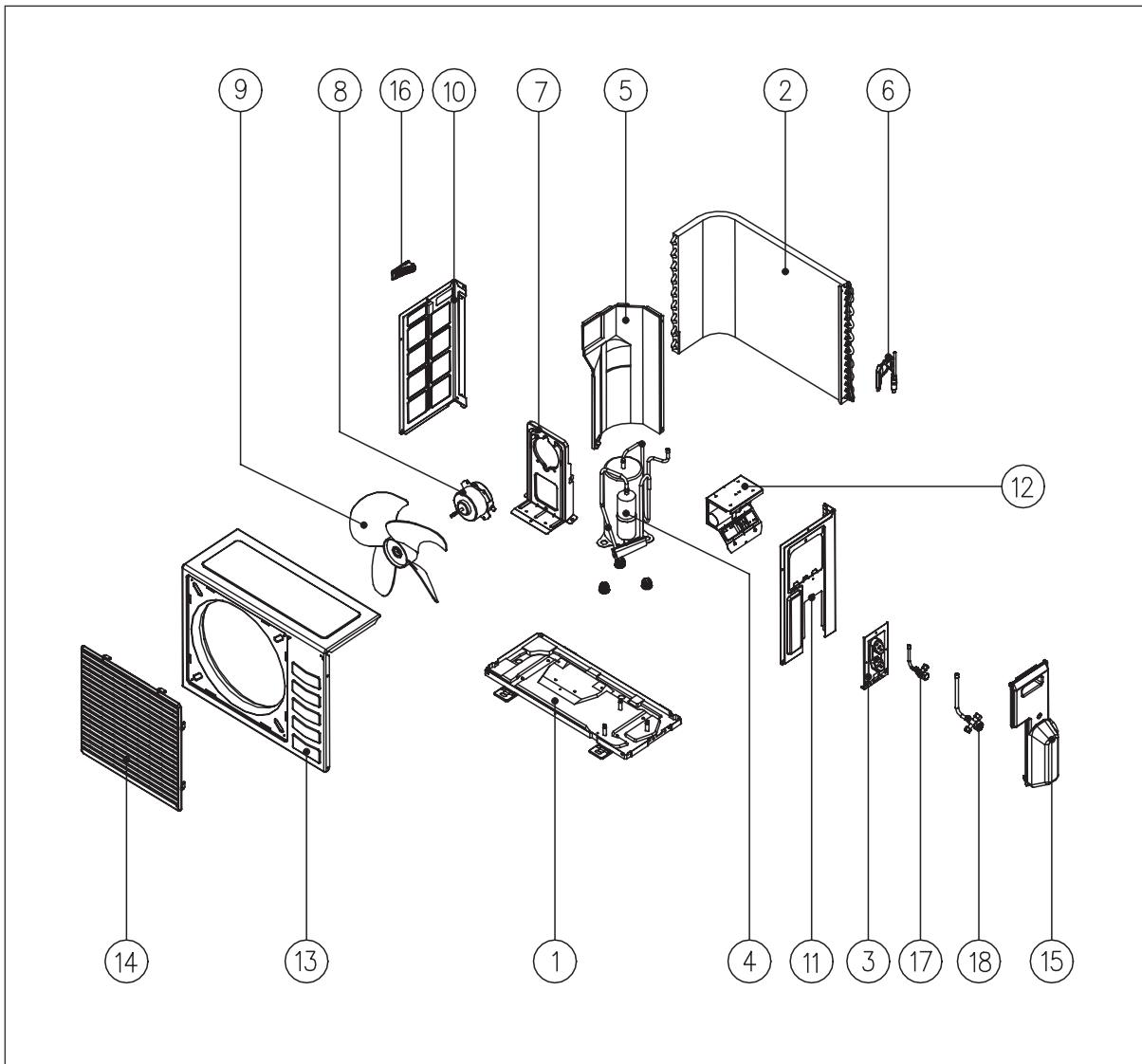
MODEL: ALC 25/28CR

No	Description	Part Number
1	Assy. Base Pan	
	ALC 25CR	R50014073884
	ALC 28CR	R50014090627
2	Assy. Outdoor Coil	
	ALC 25CR	R50024088731
	ALC 28CR	R50024088731
3	Bracket, Fan Motor	R01014070948
4	Fan Motor	
	ALC 25CR	R03039028207
	ALC 28CR	R03039024538
5	Fan Propeller	R03019023393
6	Assy. Valve Bracket	R50014073890
7	Back Panel, Right	R01014070950Y
8	Compressor	
	ALC 25CR	R04019027570
	Assy. Compressor	
	ALC 28CR	R50049029625
9	Front Panel, Left	R01014070947Y
10	Service Panel	R01014070949Y
11	Terminal Cover Panel	R01014070838
12	Assy. Control Panel	
	ALC 25CR	R50044086136
	ALC 28CR	R50044092856

No	Description	Part Number
13	Top Panel	R01014070596Y
14	Assy. Front Grille	R50124093631
15	Plastic Handle	R12014057948
16	Assy. Valve Cover	R50124073905
17	Assy. Cap Tube	
	ALC 25CR	R50024088789
	ALC 28CR	R50024092887
18	Partition	R01014070951Y
Parts Not in Diagram		
	Capacitor, Fan Motor	
	ALC 25CR	R04029026759
	ALC 28CR	R04029026966
	Capacitor, Compressor	
	ALC 25CR	R04029026779
	ALC 28CR	R04029026782
	Assy. Flare Valve 3 Ways 5/8"	R50059030462
	Assy. Flare Valve 3 Ways 3/8"	R50059030463
	Valve, Rev 4 Way	R05019004158
	Felt, Compressor	
	ALC 25CR	R06074084746
	ALC 28CR	R06074079654

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OUTDOOR UNIT
MODEL: A5LC 07C/CR



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

OUTDOOR UNIT MODEL: A5LC 07C

No	Description	Part Number
1	Assy. Base Pan	R50014057372
2	Assy. Outdoor Coil	R50024084360
3	Valve Bracket	R01014051164
4	Compressor	R04019019592
5	Assy. Partition	R50064084355
6	Assy. Cap Tube	R50024086530
7	Bracket, Fan Motor	R01014052516
8	Fan Motor	R03039015324
9	Fan Propeller	R03019020744
10	Left Panel	R01014052510Y
11	Right Panel	R01014084434Y

No	Description	Part Number
12	Assy. Control Panel	R50044086058
13	Top/Front Panel	R01014052512Y
14	Assy. Front Grille	R50124093629
15	Assy. Valve Cover	R50124055172
16	Plastic Handle	R12014057948
17	Assy. 2 Ways Valve 1/4"	R50059030514
18	Assy. 3 Ways Valve 3/8"	R50059030505
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026755
	Capacitor, Compressor	R04029026772

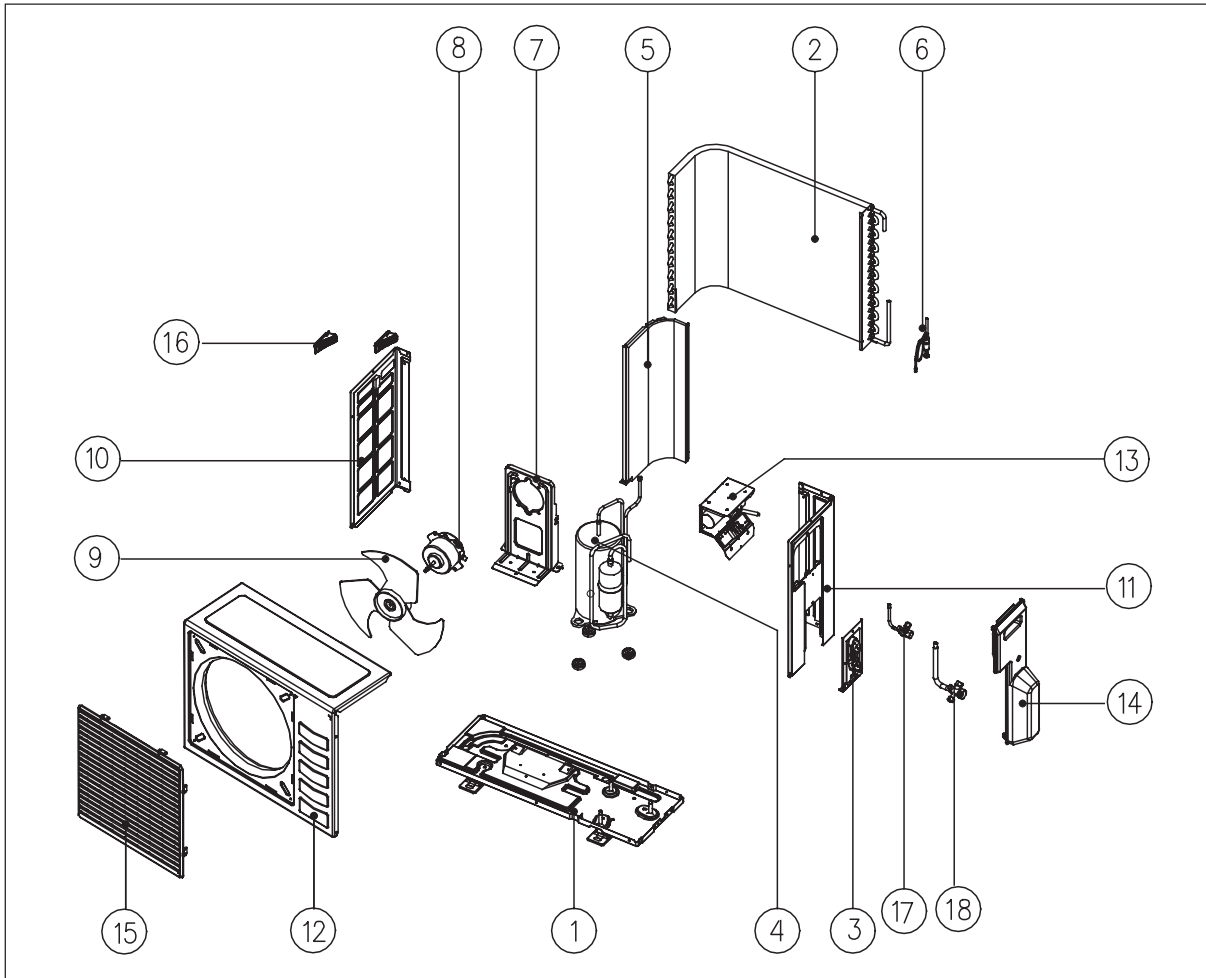
OUTDOOR UNIT MODEL: A5LC 07CR

No	Description	Part Number
1	Assy. Base Pan	R50014057372
2	Assy. Outdoor Coil	R50024084312
3	Valve Bracket	R01014051164
4	Compressor	R04019019592
5	Assy. Partition	R50064084355
6	Assy. Cap Tube	R50024086526
7	Bracket, Fan Motor	R01014052516
8	Fan Motor	R03039015324
9	Fan Propeller	R03019020744
10	Left Panel	R01014052510Y
11	Right Panel	R01014084434Y
12	Assy. Control Panel	R50044086064

No	Description	Part Number
13	Top/Front Panel	R01014052512Y
14	Assy. Front Grille	R50124093629
15	Assy. Valve Cover	R50124055172
16	Plastic Handle	R12014057948
17	Assy. 2 Ways Valve 1/4"	R50059030514
18	Assy. 3 Ways Valve 3/8"	R50059030505
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026755
	Capacitor, Compressor	R04029026772
	Assy. 4 Way Valve	R50024086525
	Defrost Thermistor	R50134039416

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OUTDOOR UNIT
MODEL: A5LC 10/15C/CR



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

OUTDOOR UNIT

MODEL: A5LC 10/15C

No	Description	Part Number	No	Description	Part Number
1	Assy. Base Pan	R50014051158	12	Top/Front Panel	R01014051171Y
2	Assy. Outdoor Coil		13	Assy. Control Panel	
	A5LC 10C	R50024083859		A5LC 10C	R50044086059
	A5LC 15C	R50024084998		A5LC 15C	R50044086060
3	Valve Bracket	R01014051164	14	Assy. Valve Cover	R50124051173
4	Compressor		15	Assy. Front Grille	R50124093630
	A5LC 10C	R04019019590	16	Plastic Handle	R12014057948
	A5LC 15C	R04019026326	17	Assy. 2 Ways Valve 1/4"	R50059030514
5	Assy. Partition	R50064055063	18	Assy. 3 Ways Valve 3/8"	
6	Assy. Cap Tube			A5LC 10C	R50059030505
	A5LC 10C	R50024084026		Assy. 3 Ways Flare Valve 1/2"	
	A5LC 15C	R50024084881		A5LC 15C	R50059030476
7	Bracket, Fan Motor	R01014051162Y	Parts Not in Diagram		
8	Fan Motor			Capacitor, Fan Motor	
	A5LC 10C	R03039016104		A5LC 10C/15C	R04029026755
	A5LC 15C	R03039015323		Capacitor, Compressor	
9	Fan Propeller	R03019015339		A5LC 10C	R04029026774
10	Left Panel	R01014051166Y		A5LC 15C	R04029026776
11	Right Panel	R01014051167Y			

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OUTDOOR UNIT

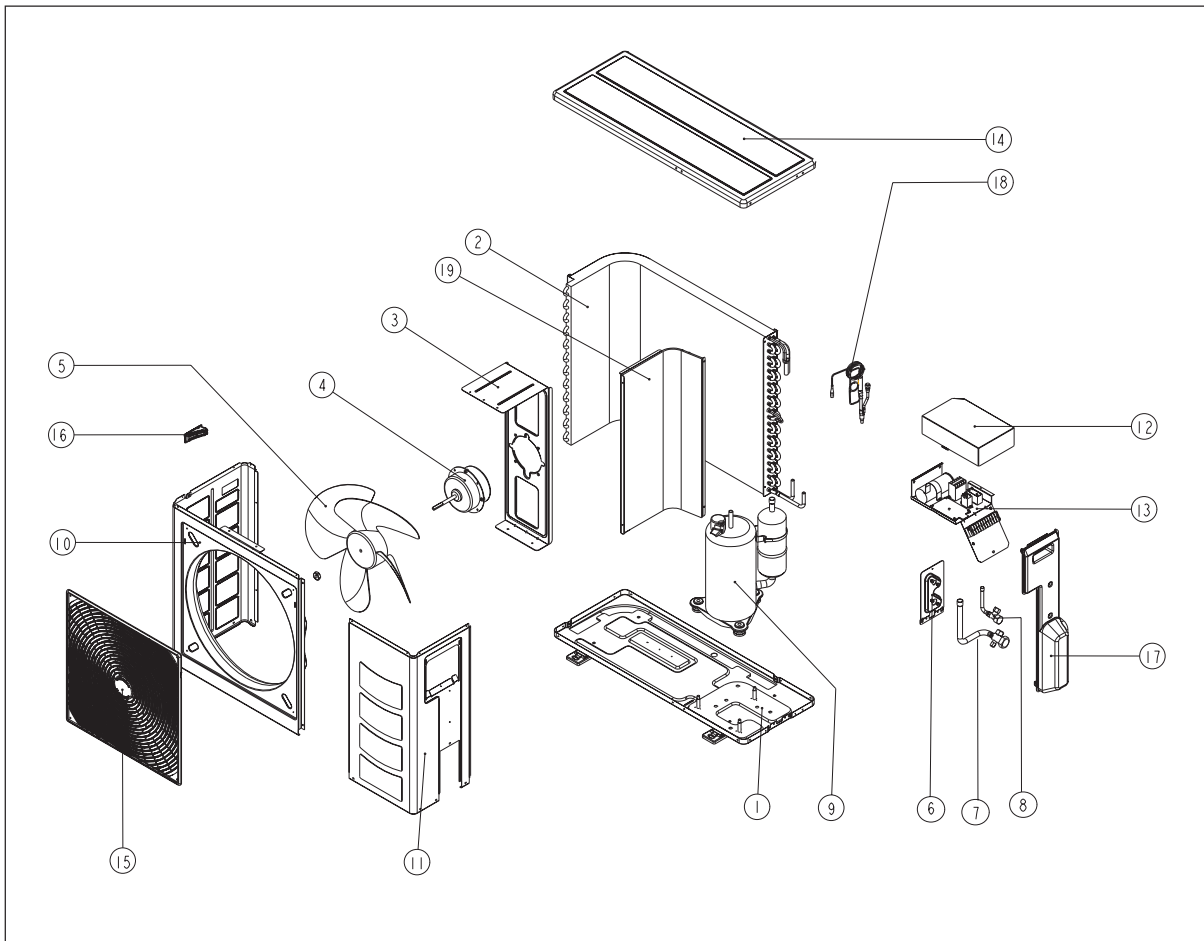
MODEL: A5LC 10/15CR

No	Description	Part Number
1	Assy. Base Pan	R50014051158
2	Assy. Outdoor Coil	
	A5LC 10CR	R50024083859
	A5LC 15CR	R50024084998
3	Valve Bracket	R01014051164
4	Compressor	
	A5LC 10CR	R04019019590
	A5LC 15CR	R04019026326
5	Assy. Partition	R50064055063
6	Assy. Cap Tube	
	A5LC 10CR	R50024083856
	A5LC 15CR	R50024084738
7	Bracket, Fan Motor	R01014051162Y
8	Fan Motor	
	ALC 10CR	R03039016104
	ALC 15CR	R03039015323
9	Fan Propeller	R03019015339
10	Left Panel	R01014051166Y
11	Right Panel	R01014051167Y

No	Description	Part Number
12	Top/Front Panel	R01014051171Y
13	Assy. Control Panel	
	A5LC 10CR	R50044086065
	A5LC 15CR	R50044086066
14	Assy. Valve Cover	R50124051173
15	Assy. Front Grille	R50124093630
16	Plastic Handle	R12014057948
17	Assy. 2 Ways Valve 1/4"	R50059030514
18	Assy. 3 Ways Valve 3/8"	
	A5LC 10CR	R50059030505
	Assy. 3 Ways Flare Valve 1/2"	
	A5LC 15CR	R50059030476
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026755
	Capacitor, Compressor	
	A5LC 10CR	R04029026774
	A5LC 15CR	R04029026776
	Valve, Rev 4 Way	R05019016936
	Defrost Thermistor	R50134039416

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OUTDOOR UNIT MODEL: A5LC 20C/CR



OUTDOOR UNIT MODEL: A5LC 20C

No	Description	Part Number
1	Assy. Base Pan	R50014078281
2	Assy. Outdoor Coil	R50024079078
3	Bracket, Fan Motor	R01014070601
4	Fan Motor	R03039024539
5	Fan Propeller	R03019023393
6	Assy. Valve Bracket	R50014078280
7	Assy. 3 Ways Valve 1/2"	R50059030471
8	Assy. 2 Ways Valve 1/4"	R50059030628
9	Compressor	R04019020625
10	Front Panel, Left	R01014070597Y
11	Service Panel	R01014070598
12	Terminal Cover Panel	R01014070838

No	Description	Part Number
13	Assy. Control Panel	R50044086076
14	Top Panel	R01014070596Y
15	Assy. Front Grille	R50124093631
16	Plastic Handle	R12014057948
17	Assy. Valve Cover	R50124072885
18	Assy. Cap Tube	R50024081921
19	Partition	R01014070603
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026759
	Phase Protector	R04089018834
	Back Panel, Right	R01014070599

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OUTDOOR UNIT

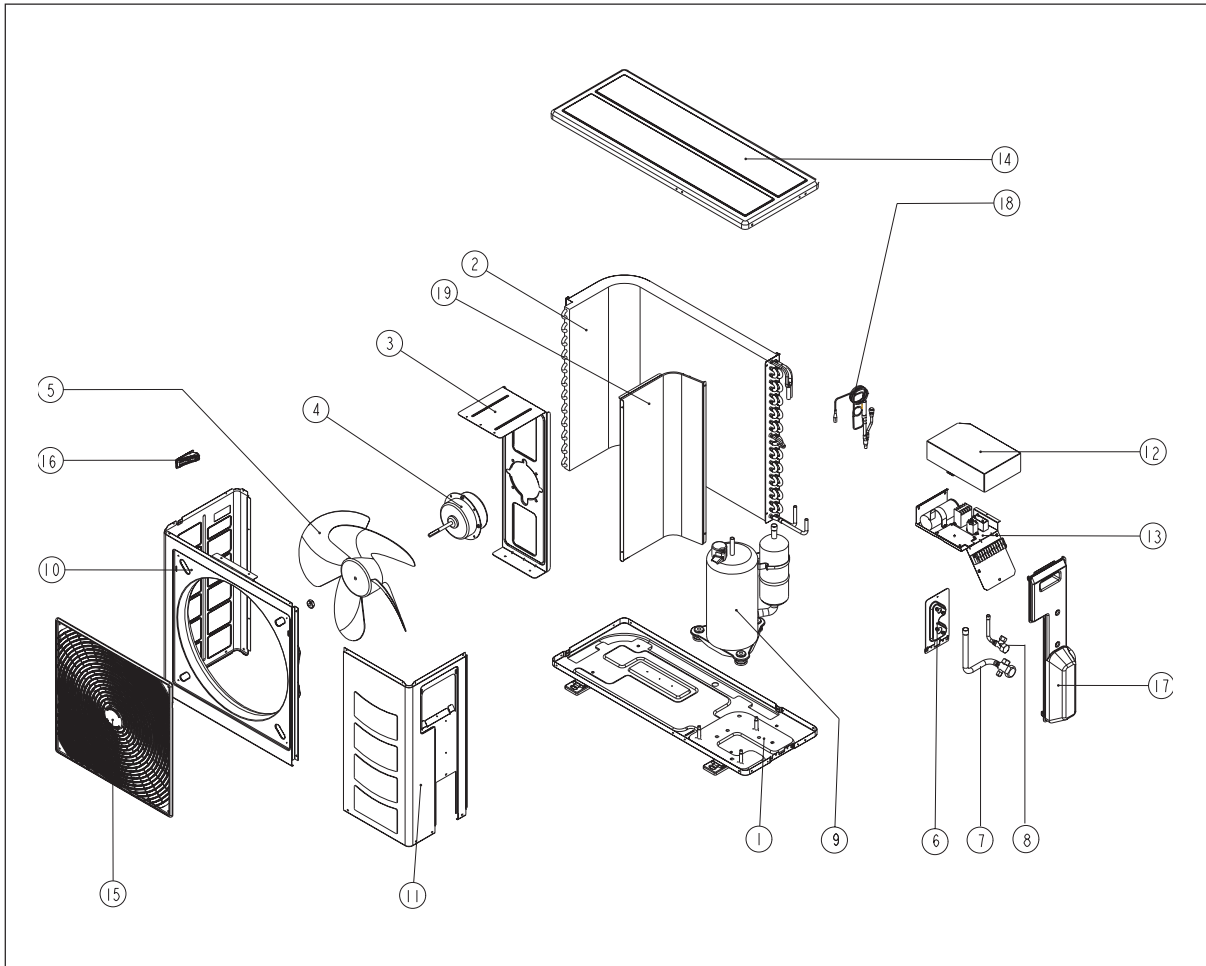
MODEL: A5LC 20CR

No	Description	Part Number
1	Assy. Base Pan	R50014078281
2	Assy. Outdoor Coil	R50024075143
3	Bracket, Fan Motor	R01014070601
4	Fan Motor	R03039024539
5	Fan Propeller	R03019023393
6	Assy. Valve Bracket	R50014078280
7	Assy. 3 Ways Valve 1/2"	
	A5LC 20CR	R50059030471
8	Assy. 2 Ways Valve 1/4"	
	A5LC 20CR	R50059030628
9	Compressor	R04019020625
10	Front Panel, Left	R01014070597Y
11	Service Panel	R01014070598
12	Terminal Cover Panel	R01014070838

No	Description	Part Number
13	Assy. Control Panel	R50044086136
14	Top Panel	R01014070596Y
15	Assy. Front Grille	R50124093631
16	Plastic Handle	R12014057948
17	Assy. Valve Cover	R50124072885
18	Assy. Cap Tube	R50024081904
19	Partition	R01014070603
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026759
	Capacitor, Compressor	R04029026779
	Valve, Rev 4 Way	R05019016937
	Defrost Thermistor	R50134039416
	Back Panel, Right	R01014070599

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**OUTDOOR UNIT
MODEL: A5LC 25/28C/CR**



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

OUTDOOR UNIT

MODEL: A5LC 25/28C

No	Description	Part Number	No	Description	Part Number
1	Assy. Base Pan		11	Service Panel	R01014070949Y
	A5LC 25C	R50014078281	12	Terminal Cover Panel	R01014070838
	A5LC 28C	R50014073884	13	Assy. Control Panel	
2	Assy. Outdoor Coil	R50024079238		A5LC 25C	R50044086076
	3	Bracket, Fan Motor		R01014070948	A5LC 28C
4		Fan Motor		14	Top Panel
	A5LC 25C	R03039023391	15	Assy. Front Grille	R50124093631
	A5LC 28C	R03039024538	16	Plastic Handle	R12014057948
5	Fan Propeller	R03019023393	17	Assy. Valve Cover	R50124073905
6	Assy. Valve Bracket		18	Assy. Cap Tube	
	A5LC 25C	R50014078321		A5LC 25C	R50024081916
	A5LC 28C	R50014080371		A5LC 28C	R50024079593
7	Assy. 3 Ways Valve 5/8"	R50059030488	19	Partition	R01014070951Y
8	Assy. 2 Ways Valve 1/4"		Parts Not in Diagram		
	A5LC 25C	R50059030628		Capacitor, Fan Motor	
	Assy. 3 Ways Valve 3/8"			A5LC 25C	R04029026759
	A5LC 28C	R50059024820		A5LC 28C	R04029026966
9	Compressor			Capacitor, Compressor	
	A5LC 25C	R04019021361		A5LC 25C	R04029026779
	A5LC 28C	R04019020449		A5LC 28C	R04029026778
10	Front Panel, Left	R01014070947Y		Back Panel, Right	R01014070950Y

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OUTDOOR UNIT

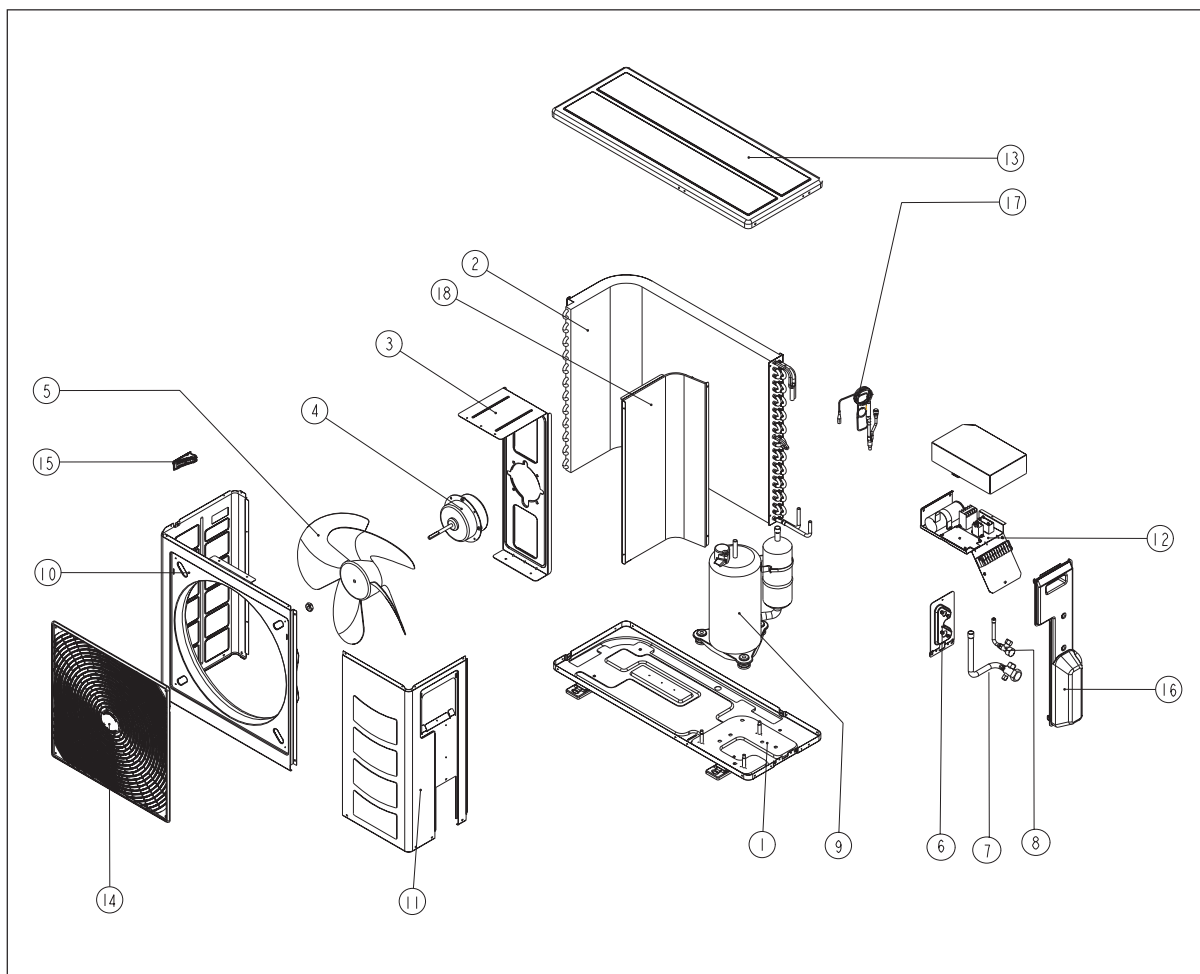
MODEL: A5LC 25/28CR

No	Description	Part Number
1	Assy. Base Pan	
	A5LC 25CR	R50014078281
	A5LC 28CR	R50014073884
2	Assy. Outdoor Coil	R50024075147
3	Bracket, Fan Motor	R01014070948
4	Fan Motor	
	A5LC 25CR	R03039023391
	A5LC 28CR	R03039024538
5	Fan Propeller	R03019023393
6	Assy. Valve Bracket	
	A5LC 25CR	R50014078321
	A5LC 28CR	R50014080371
7	Assy. 3 Ways Valve 5/8"	R50059030488
8	Assy. 2 Ways Valve 1/4"	
	A5LC 25CR	R50059030628
	Assy. 3 Ways Valve 3/8"	
	A5LC 28C	R50059024820
9	Compressor	
	A5LC 25CR	R04019021361
	A5LC 28CR	R04019020449
10	Front Panel, Left	R01014070947Y
11	Service Panel	R01014070949Y

No	Description	Part Number
12	Terminal Cover Panel	R01014070838
13	Assy. Control Panel	
	A5LC 25CR	R50044086136
	A5LC 28CR	R50044086140
14	Top Panel	R01014070596Y
15	Assy. Front Grille	R50124093631
16	Plastic Handle	R12014057948
17	Assy. Valve Cover	R50124073905
18	Assy. Cap Tube	
	A5LC 25CR	R50024081899
	A5LC 28CR	R50024080312
19	Partition	R01014070951Y
Parts Not in Diagram		
	Capacitor, Fan Motor	
	A5LC 25CR	R04029026759
	A5LC 28CR	R04029026966
	Capacitor, Compressor	
	A5LC 25CR	R04029026779
	A5LC 28CR	R04029026778
	Back Panel, Right	R01014070950Y
	Valve, Rev 4 Way	R05019016937

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

OUTDOOR UNIT MODEL: A5LC 20C/CR (3 phase)



OUTDOOR UNIT MODEL: A5LC 20C (3 phase)

No	Description	Part Number
1	Assy. Base Pan	R50014078281
2	Assy. Outdoor Coil	R50024079078
3	Bracket, Fan Motor	R01014070601
4	Fan Motor	R03039024539
5	Fan Propeller	R03019023393
6	Assy. Valve Bracket	R50014078280
7	Assy. 3 Ways Valve 1/2"	
	A5LC 20C	R50059030471
8	Assy. 2 Ways Valve 1/4"	
	A5LC 20C	R50059030628
9	Compressor	R04019029246
10	Front Panel, Left	R01014070597Y

No	Description	Part Number
11	Service Panel	R01014070598
12	Assy. Control Panel	R50044092272
13	Top Panel	R01014070596Y
14	Assy. Front Grille	R50124093631
15	Plastic Handle	R12014057948
16	Assy. Valve Cover	R50124072885
17	Assy. Cap Tube	R50024081921
18	Partition	R01014070603
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026759
	Phase Protector	R04089018834
	Back Panel, Right	R01014070599

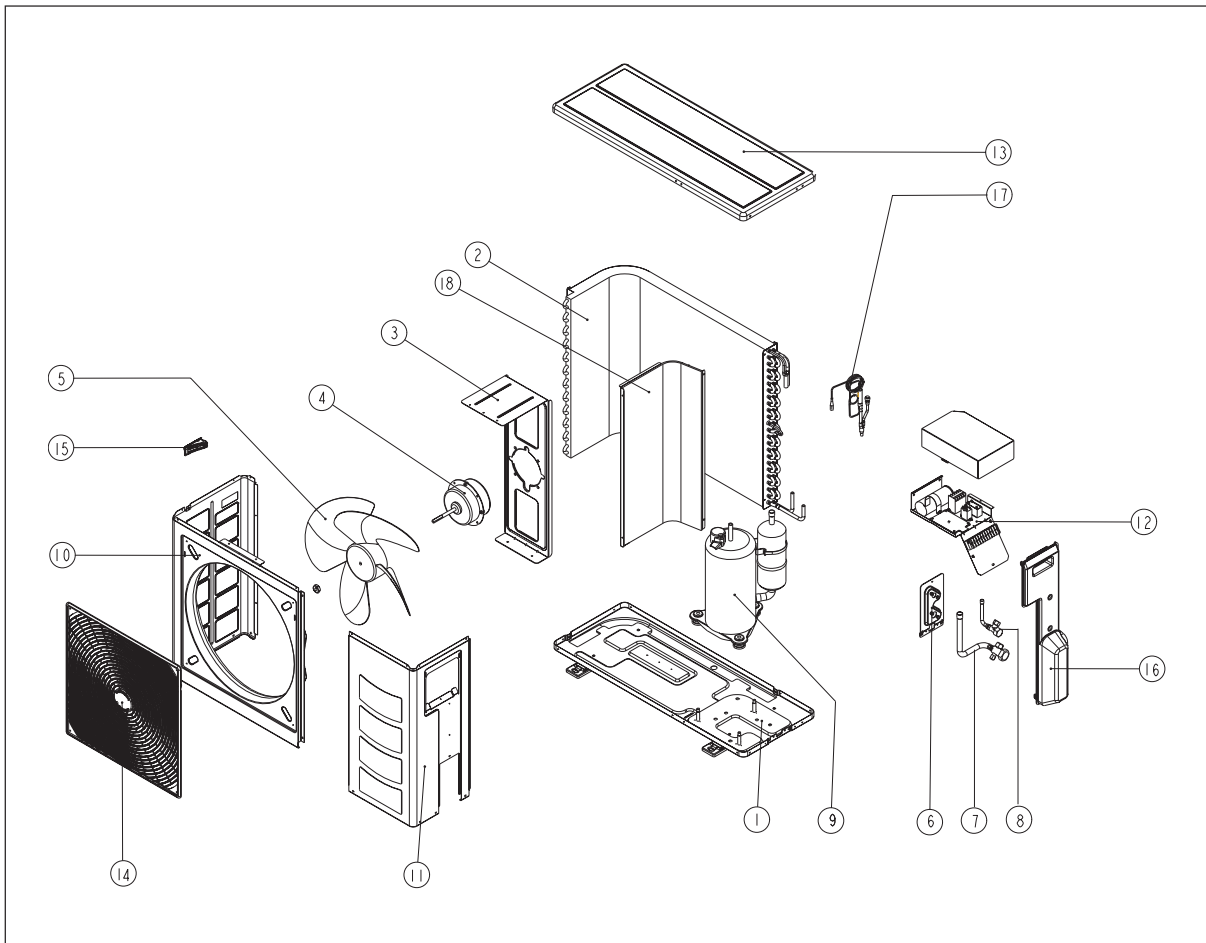
Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

OUTDOOR UNIT
MODEL: A5LC 20CR (3 phase)

No	Description	Part Number	No	Description	Part Number
1	Assy. Base Pan	R50014078281	12	Assy. Control Panel	R50044092275
2	Assy. Outdoor Coil	R50024075143	13	Top Panel	R01014070596Y
3	Bracket, Fan Motor	R01014070601	14	Assy. Front Grille	R50124093631
4	Fan Motor	R03039024539	15	Plastic Handle	R12014057948
5	Fan Propeller	R03019023393	16	Assy. Valve Cover	R50124072885
6	Assy. Valve Bracket	R50014078280	17	Assy. Cap Tube	R50024081904
7	Assy. 3 Ways Valve 1/2"		18	Partition	R01014070603
	A5LC 20CR	R50059030471	Parts Not in Diagram		
8	Assy. 2 Ways Valve 1/4"			Capacitor, Fan Motor	R04029026759
	A5LC 20CR	R50059030628		Phase Protector	R04089018834
9	Compressor	R04019029246		Back Panel, Right	R01014070599
10	Front Panel, Left	R01014070597Y		Valve, Rev 4 Way	R05019016937
11	Service Panel	R01014070598		Defrost Thermistor	R50134039416

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

OUTDOOR UNIT
MODEL: A5LC 25/28C/CR (3 phase)



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OUTDOOR UNIT
MODEL: A5LC 25/28C (3 phase)

No	Description	Part Number
1	Assy. Base Pan	R50014073884
2	Assy. Outdoor Coil	R50024079238
3	Bracket, Fan Motor	R01014070948
4	Fan Motor	
	A5LC 25C	R03039023391
	A5LC 28C	R03039024538
5	Fan Propeller	R03019023393
6	Assy. Valve Bracket	
	A5LC 25C	R50014078321
	A5LC 28C	R50014080371
7	Assy. 3 Ways Valve 5/8"	R50059030488
8	Assy. 2 Ways Valve 1/4"	
	A5LC 25C	R50059030628
	Assy. 3 Ways Valve 3/8"	
	A5LC 28C	R50059024820
9	Compressor	
	A5LC 25C	R04019029248
	A5LC 28C	R04019029629
10	Front Panel, Left	R01014070947Y

No	Description	Part Number
11	Service Panel	R01014070949Y
12	Assy. Control Panel	
	A5LC 25C	R50044092273
	A5LC 28C	R50044092274
13	Top Panel	R01014070596Y
14	Assy. Front Grille	R50124093631
15	Plastic Handle	R12014057948
16	Assy. Valve Cover	R50124073905
17	Assy. Cap Tube	
	A5LC 25C	R50024092169
	A5LC 28C	R50024079593
18	Partition	R01014070951Y
Parts Not in Diagram		
	Capacitor, Fan Motor	
	A5LC 25C	R04029026759
	A5LC 28C	R04029026966
	Phase Protector	R04089018834
	Back Panel, Right	R01014070950Y

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OUTDOOR UNIT
MODEL: A5LC 25/28C (3 phase)

No	Description	Part Number	No	Description	Part Number
1	Assy. Base Pan	R50014073884	11	Service Panel	R01014070949Y
2	Assy. Outdoor Coil	R50024075147	12	Assy. Control Panel	
3	Bracket, Fan Motor	R01014070948		A5LC 25CR	R50044092276
4	Fan Motor			A5LC 28CR	R50044092277
	A5LC 25CR	R03039023391	13	Top Panel	R01014070596Y
	A5LC 28CR	R03039024538	14	Assy. Front Grille	R50124093631
5	Fan Propeller	R03019023393	15	Plastic Handle	R12014057948
6	Assy. Valve Bracket		16	Assy. Valve Cover	R50124073905
	A5LC 25CR	R50014078321	17	Assy. Cap Tube	
	A5LC 28CR	R50014080371		A5LC 25CR	R50024092178
7	Assy. 3 Ways Valve 5/8"	R50059030488		A5LC 28CR	R50024080312
8	Assy. 2 Ways Valve 1/4"		18	Partition	R01014070951Y
	A5LC 25CR	R50059030628	Parts Not in Diagram		
	Assy. 3 Ways Valve 3/8"			Capacitor, Fan Motor	
	A5LC 28C	R50059024820		A5LC 25CR	R04029026759
9	Compressor			A5LC 28CR	R04029026966
	A5LC 25CR	R04019029248		Phase Protector	R04089018834
	A5LC 28CR	R04019029629		Back Panel, Right	R01014070950Y
10	Front Panel, Left	R01014070947Y		Valve, Rev 4 Way	R05019016937

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While utmost care is taken in ensuring that all details in the publication are correct at time of going to press, we are constantly striving for improvement and therefore reserve the rights to alter model specifications and equipment without prior notice. Details of specifications and equipment are also subject to change to suit local conditions and requirements and not all models are available in every market.