

Models:

ACK/A5CK 20 A/AR
ACK/A5CK 25 A/AR
ACK/A5CK 30 A/AR
ACK/A5CK 40 A/AR
ACK/A5CK 50 A/AR

ACK 15 B/BR
ACK 20 B/BR
ACK 25 B/BR

ACK/A5CK 10 C/CR
ACK/A5CK 15 C/CR
ACK/A5CK 20 C/CR

ACSON[®]
International



**Ceiling Cassette
Split Systems**

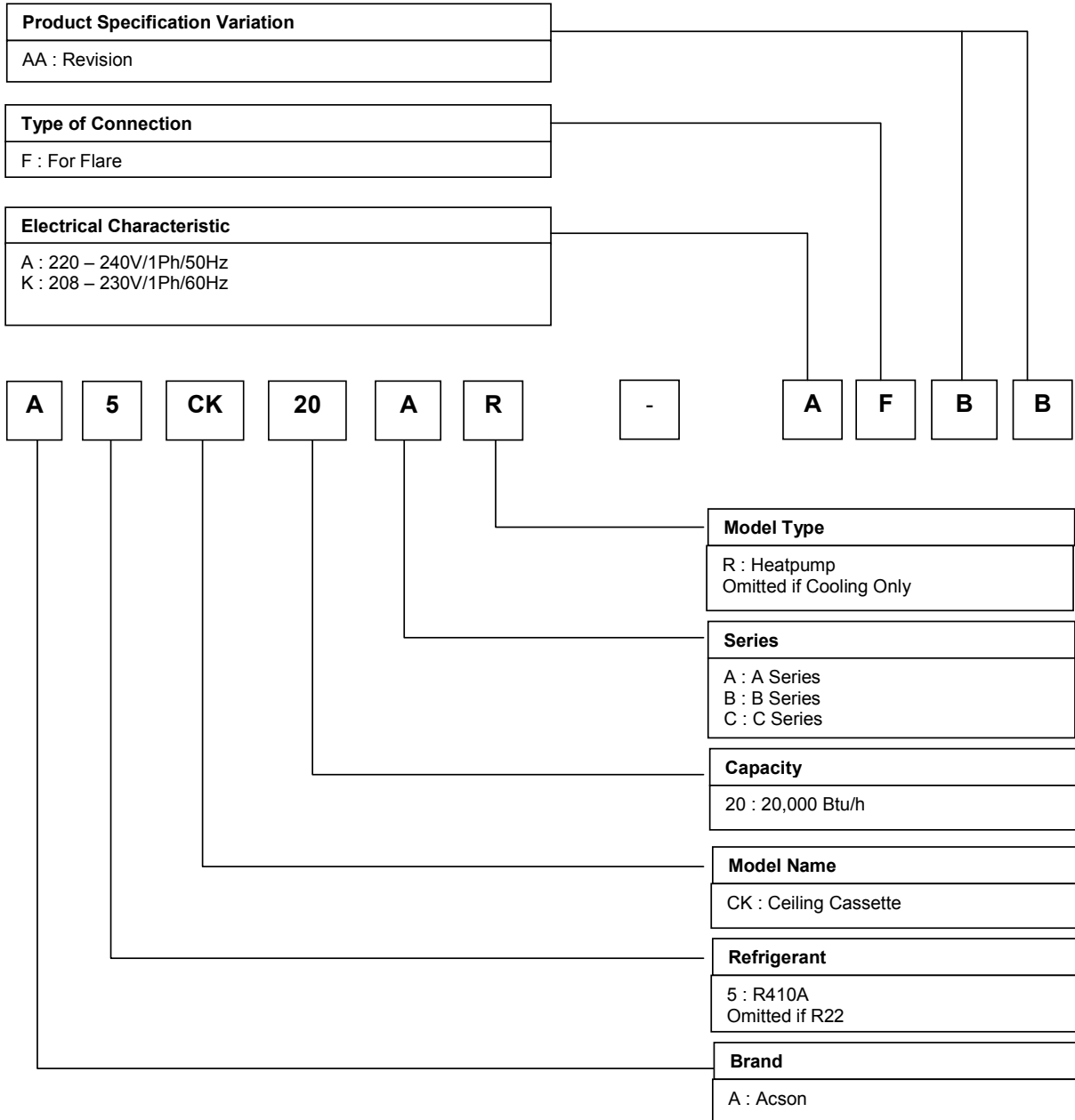
TABLE OF CONTENTS

1. NOMENCLATURE	1
- PRODUCT LINE UP	
2. FEATURES	10
3. APPLICATION INFORMATION	11
- OPERATING RANGE	
- REFRIGERANT CIRCUIT DIAGRAM	
- CONTROLLER	
- INSTALLATION	
4. SOUND DATA	36
- NC CURVES	
5. ENGINEERING AND PHYSICAL DATA	45
- SPECIFICATIONS	
6. PERFORMANCE DATA	113
- PERFORMANCE TABLES	
7. DIMENSIONAL DATA.....	160
8. ELECTRICAL DATA	162
9. WIRING DIAGRAMS.....	178
10. SERVICING AND MAINTENANCE	214
11. TROUBLESHOOTING	216
12. EXPLODED VIEW AND PART LIST	221

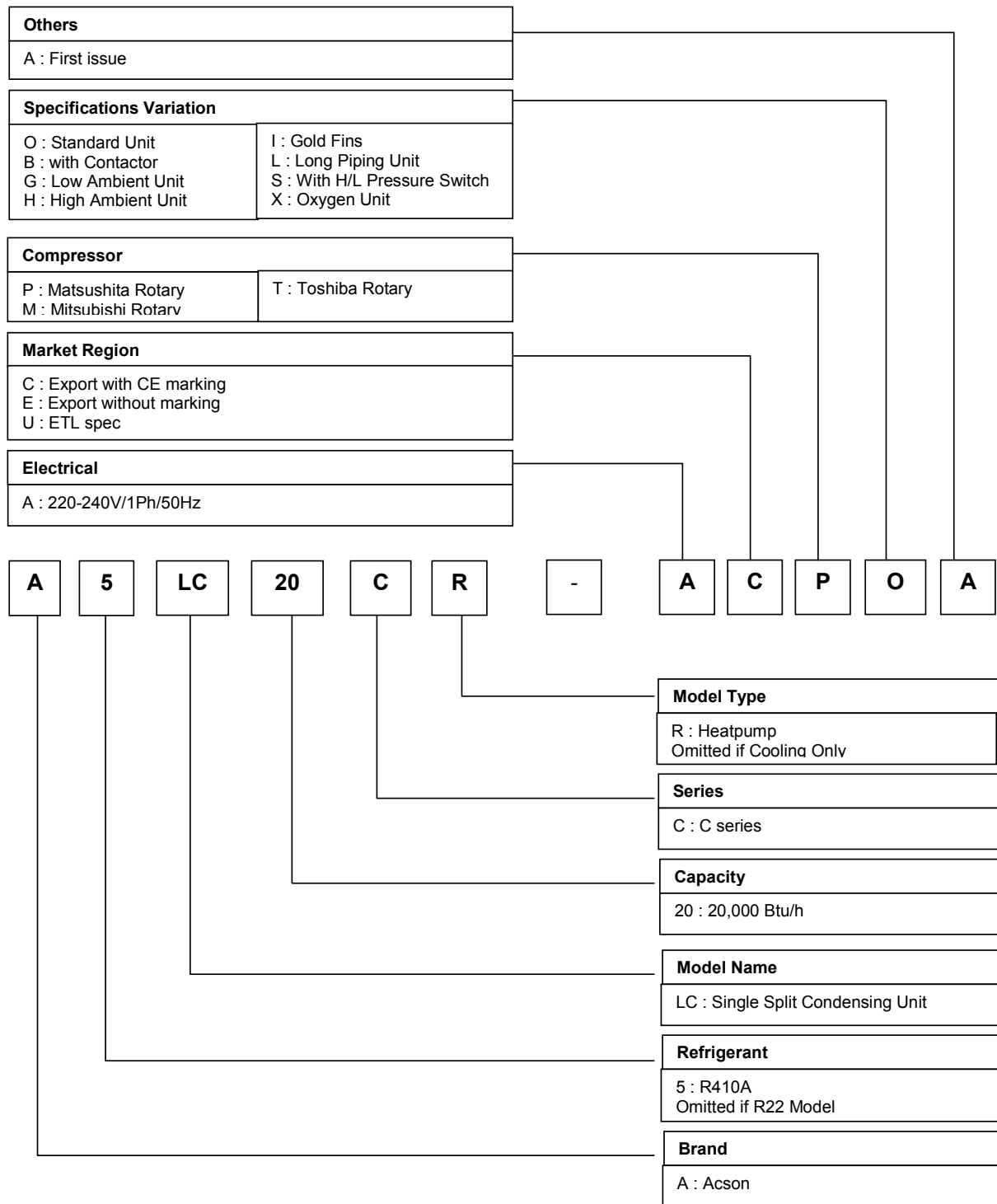
This manual supercedes ACK-2006

1. NOMENCLATURE

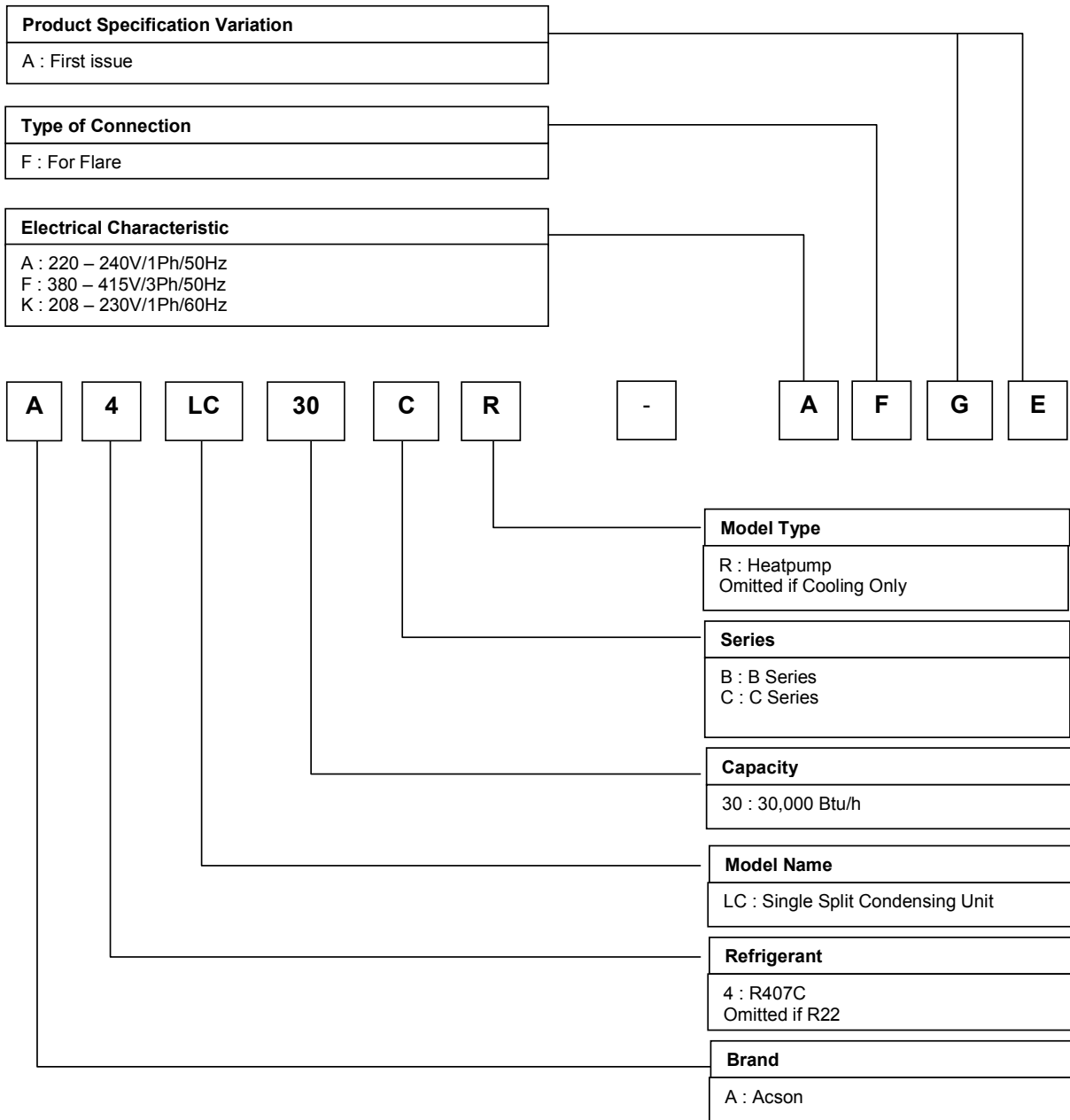
INDOOR



OUTDOOR



OUTDOOR



PRODUCT LINE UP

INDOOR UNIT

ACK-A SERIES PRODUCT LINE UP

ACK		NONMENCLATURE	Classification							Auto Air Swing	
			Control		Marking		Fin		Refrigerant Control		
			L2 08A	CE Mark	ETL	Alum. (Slit)	Hydrophilic (Slit)	Cap. Tube	W/out Cap. Tube		
Cooling Only Model	20A	AFBB	X	X		X			X	X	
	25A	AFBB	X	X		X			X	X	
	30A	AFBB	X	X		X		X		X	
	40A	AFBB	X	X			X	X		X	
	50A	AFBB	X	X			X	X		X	
Heat Pump Model	20AR	AFBB	X	X		X			X	X	
	25AR	AFBB	X	X		X			X	X	
	30AR	AFBB	X	X		X			X	X	
	40AR	AFBB	X	X			X		X	X	
	50AR	AFBB	X	X			X		X	X	

INDOOR UNIT

ACK-B SERIES PRODUCT LINE UP

ACK		NONMENCLATURE	Classification							Auto Air Swing	
			Control		Marking		Fin		Refrigerant Control		
			U1.4 PCB	U1.5 PCB	CE Mark	ETL	Alum. (Slit)	Cap. Tube	W/out Cap. Tube		
Cooling Only Model	15B	AFCB	X		X		X		X	X	
	20B	AFCB	X		X		X		X	X	
	25B	AFCB	X		X		X		X	X	
Heat Pump Model	15BR	AFCB		X	X		X		X	X	
	20BR	AFCB		X	X		X		X	X	
	25BR	AFCB		X	X		X		X	X	

**INDOOR UNIT
ACK-C SERIES PRODUCT LINE UP**

ACK		NONMENCLATURE	Classification					
			Control	Marking	Fin	Refrigerant Control		With Auto Air Swing
			L2 08A	CE Mark	Hydrophobic (Slit)	Cap. Tube	W/out Cap. Tube	
Cooling Only Model	10C	AFBB	X	X	X		X	X
	15C	AFBB	X	X	X		X	X
	20C	AFBB	X	X	X		X	X
Heat Pump Model	10CR	AFBB	X	X	X		X	X
	15CR	AFBB	X	X	X		X	X
	20CR	AFBB	X	X	X		X	X

**INDOOR UNIT
R410A MODELS**

ACK		NONMENCLATURE	Classification								
			Control		Marking		Fin		Refrigerant Control		Auto Air Swing
			L2 08A	CE Mark	ETL	Alum. (Slit)	Hydrophilic (Slit)	Cap. Tube	W/out Cap. Tube		
Cooling Only Model	10C	AFBB	X	X			X		X	X	
	15C	AFBB	X	X			X		X	X	
	20C	AFBB	X	X			X		X	X	
	20A	AFBA	X	X			X		X	X	
	25A	AFBA	X	X			X		X	X	
	30A	AFBA	X	X			X		X	X	
	40A	ACOBA	X	X			X		X	X	
	50A	ACOBA	X	X			X		X	X	
Heat Pump Model	10CR	AFBB	X	X			X		X	X	
	15CR	AFBB	X	X			X		X	X	
	20CR	AFBB	X	X			X		X	X	
	20AR	AFBA	X	X			X		X	X	
	25AR	AFBA	X	X			X		X	X	
	30AR	AFBA	X	X			X		X	X	
	40AR	ACOBA	X	X			X		X	X	
	50AR	ACOBA	X	X			X		X	X	

**INDOOR UNIT
ACK PANEL PRODUCT LINE UP**

	NONMENCLATURE	Classification					Auto Air Swing
		Handset		Marking			
		G7	SLM	CE Mark	W/out Marking	Common	
Cooling Only Model	PLCKA-G7	X				X	X
	PLCKA-SLM		X			X	X
	PLCKB-G7S	X				X	X
	PLCKB-SLMS		X			X	X
	PLCKC-G7	X				X	X
Heat Pump Model	PLCKAR-G7	X				X	X
	PLCKAR-SLM		X			X	X
	PLCKBR-G7S	X				X	X
	PLCKBR-SLMS		X			X	X
	PLCKCR-G7	X				X	X

**OUTDOOR UNIT
ALC-C PRODUCT LINE UP**

ALC	Nomenclature	Classification																
		Refrigerant Ctrl + Fin			Special		Safety Devices					Grille	Compressor		Marking			
		Cap. Tube	TXV	Gold Fin	High Ambient Kit	Low Ambient Kit	Contact	High Pressure Switch	Low Pressure Switch	Nantong Press. SW	Phase Sequencer	Drain Elbow	Copeland Scroll Comp.	Rotary	CE Marking	ETL		
Cooling Model	10C	ACPOB	X														X	X
		ACPIA	X		X												X	X
	15C	ACPOD	X														X	X
		ACPID	X		X												X	X
	18C	ACPBD	X						X								X	X
		ACPYD	X		X				X								X	X
	20C	ACPOD	X														X	X
		ACPID	X		X												X	X
	25C	ACPOD	X														X	X
		ACPID	X		X												X	X
	28C	ACPOA															X	X
		ACPIA			X									X			X	X
	30C	AFGE						X	X	X	X			X			X	X
		AFGF				X		X	X	X	X			X			X	X
		AFGG			X			X	X	X	X			X			X	X
		FFGE						X	X	X	X	X		X			X	X
	35C	FFGG			X			X	X	X	X	X		X			X	X
		AFGE						X	X	X	X			X			X	X
	40C	AFGG			X			X	X	X	X			X			X	X
		FFGE						X	X	X	X	X		X			X	X
	50C	FFGF				X		X	X	X	X	X		X			X	X
		FFGG			X			X	X	X	X	X		X			X	X
		FFFE						X	X	X	X	X		X			X	X
	61C	FFFF				X		X	X	X	X	X		X			X	X
FFFG				X			X	X	X	X	X		X			X	X	
FFFB							X	X	X	X	X		X			X	X	
Heat Pump Model	10CR	ACPOB	X													X	X	
		ACPIB	X		X											X	X	
	15CR	ACPOB	X													X	X	
		ACPIB	X		X											X	X	
	18CR	ACPOD	X													X	X	
		ACPID	X		X											X	X	
	20CR	ACPOD	X													X	X	
		ACPID	X		X											X	X	
	25CR	ACPOD	X													X	X	
		ACPID	X		X											X	X	
	28CR	ACPOA	X													X	X	
		ACPIA	X		X									X			X	X
	30CR	AFFB	X	X				X	X		X		X	X			X	X
		AFFC	X	X		X		X	X		X		X	X			X	X
		AFFD	X	X	X			X	X		X		X	X			X	X
		FFFB	X	X				X	X		X	X		X			X	X
	35CR	FFFD	X	X	X			X	X		X	X		X			X	X
		AFFB	X	X				X	X		X		X	X			X	X
	40CR	AFFD	X	X				X	X		X		X	X			X	X
		FFFB	X	X				X	X		X	X		X			X	X
		FFFC	X	X		X		X	X		X	X		X			X	X
		FFFD	X	X	X			X	X		X	X		X			X	X
	50CR	FFFB	X	X				X	X		X	X		X			X	X
		FFFC	X	X		X		X	X		X	X		X			X	X
FFFD		X	X	X			X	X		X	X		X			X	X	
61CR	FFFB	X					X	X		X	X		X			X	X	
	FFFC	X			X		X	X		X	X		X			X	X	
	FFFD	X		X			X	X		X	X		X			X	X	

**OUTDOOR UNIT
A5LC-C SERIES PRODUCT LINE UP**

A5LC		Nomenclature		Classification														
				Refrigerant Ctr1 + Fin			Special		Safety Devices					Grille	Compressor		Marking	
				Cap. Tube	TXV	Gold Fin	High Ambient Kit	Low Ambient Kit	Contactora	High Pressure Switch	Low Pressure Switch	Nantong Press. SW	Phase Sequencer	Drain Elbow	Copeland Scroll Comp.	Rotary	CE Marking	ETL
Cooling Model	10C	ACPOA	X													X	X	
		ACPIB	X		X											X	X	
	15C	ACPOC	X														X	X
		ACPIA	X		X												X	X
	20C	ACPOA	X														X	X
		FCPOC	X					X									X	X
		FCPIC	X		X			X									X	X
	25C	ACPIA	X		X												X	X
		ACPOA	X														X	X
		FCPOC	X					X									X	X
	28C	PCPIC	X		X			X									X	X
		ACPOA	X														X	X
		ACPIA	X		X												X	X
	35C	FCPOA	X					X									X	X
		FCPIA	X		X			X									X	X
		ACCOA	X	X				X	X	X					X		X	X
	40C	ACPIA	X		X			X	X	X					X		X	X
		ACCGA	X	X	X			X	X	X					X		X	X
		FCCOA	X	X				X	X	X	X				X		X	X
	50C	FCCGA	X	X	X			X	X	X	X				X		X	X
		FCCGA	X	X	X			X	X	X					X		X	X
FCCGA		X	X	X			X	X	X	X				X		X	X	
Heat Pump Model	10CR	ACPOA	X													X	X	
		ACPIB	X		X											X	X	
	15CR	ACPOC	X														X	X
		ACPIA	X		X												X	X
	20CR	ACPOC	X														X	X
		FCPOC	X					X									X	X
		FCPIC	X		X			X					X				X	X
	25CR	ACPIA	X		X												X	X
		ACPOC	X														X	X
		FCPOC	X					X									X	X
	28CR	FCPIC	X		X			X									X	X
		ACPOA	X														X	X
		ACPIA	X		X												X	X
	35CR	FCPOA	X					X									X	X
		ACCGA	X	X	X			X	X	X					X		X	X
		FCCOA	X	X				X	X	X	X				X		X	X
	40CR	FCCGA	X	X	X			X	X	X					X		X	X
		ACCGA	X	X	X			X	X	X					X		X	X
		FCCOA	X	X				X	X	X	X				X		X	X
	50CR	FCCGA	X	X	X			X	X	X					X		X	X
		FCCGA	X	X	X			X	X	X					X		X	X
61CR	FCCGA	X	X	X			X	X	X					X		X	X	

2. FEATURES

ULTRA SLIM NEW STYLISH DESIGN PROFILE

This unit is contemporary in design and match even the most up to date interior decor. The slim, (only 20mm for C-series, 22 mm for B-series and only 28 mm for A-series) and round profile front panel of this unit adds a touch of elegance to every decor.

TURBO MIXED FLOW FAN

Innovative design of highly efficient turbo fan produces an even air circulation in all direction.

BUILT-IN HIGH HEAD DRAIN PUMP

The unit has a built-in high head drain pump (with 700 mm drain head) to provide and ensure smoothness drainage of condensate water.

STRONG AND ROBUST

The unit is built from strong casing material and robust parts to ensure long lasting reliable service. The drain pan is made from the POLYSTYRENE with a plastic coating on the surface to ensure no leaking and condensation occur.

FRIENDLY SERVICEABILITY

The air filter, electrical parts, fan, fan motor and drain pump can all be inspected and replaced from the bottom of the unit by simply removing the air intake grille. The POLYSTYRENE drain pan and the heat exchanger coils can be removed from the unit easily by removing the front panel.

MICROCOMPUTER REMOTE CONTROLLER

The incorporated microprocessor offers more accurate control and with the following extra features:

- Fan motor speed can be set at high/medium/low or automatic.
- Timer on/off - the unit can be pre-set to switch on and off automatically.
- Electronic thermostat - room temperature is precisely controlled, resulting in energy saving and increase comfort.

WIRELESS REMOTE CONTROLLER

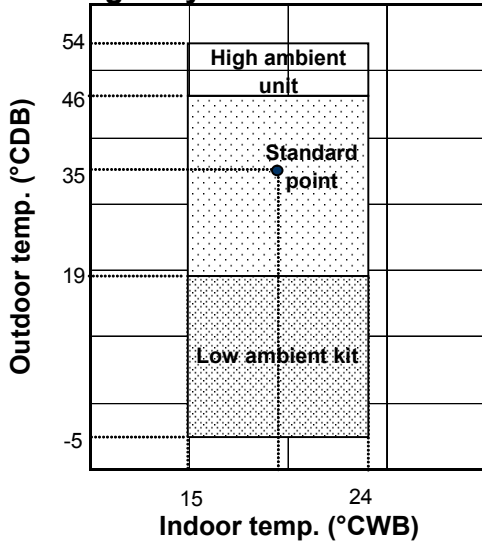
The compact wireless remote controller makes it possible to operate the air conditioner anywhere within the room.

3. APPLICATION INFORMATION

OPERATING RANGE

Ensure the operating temperature is in allowable range.

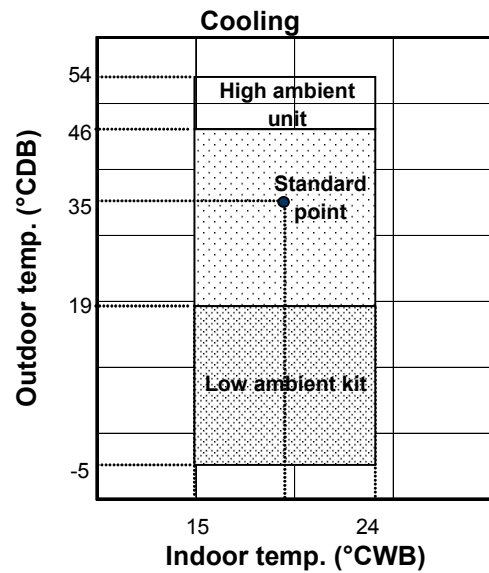
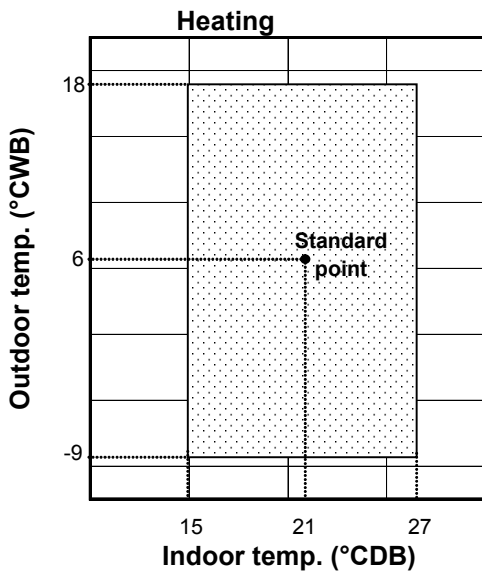
Cooling Only






Caution :

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

Heat Pump

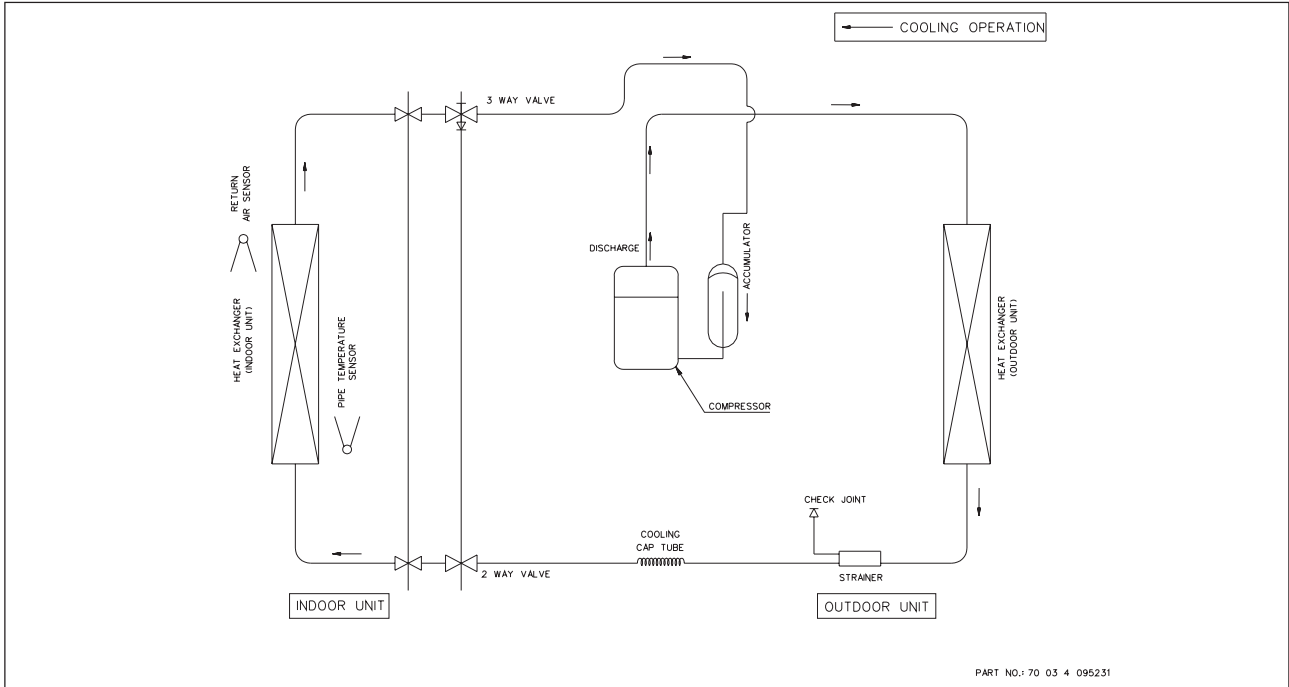


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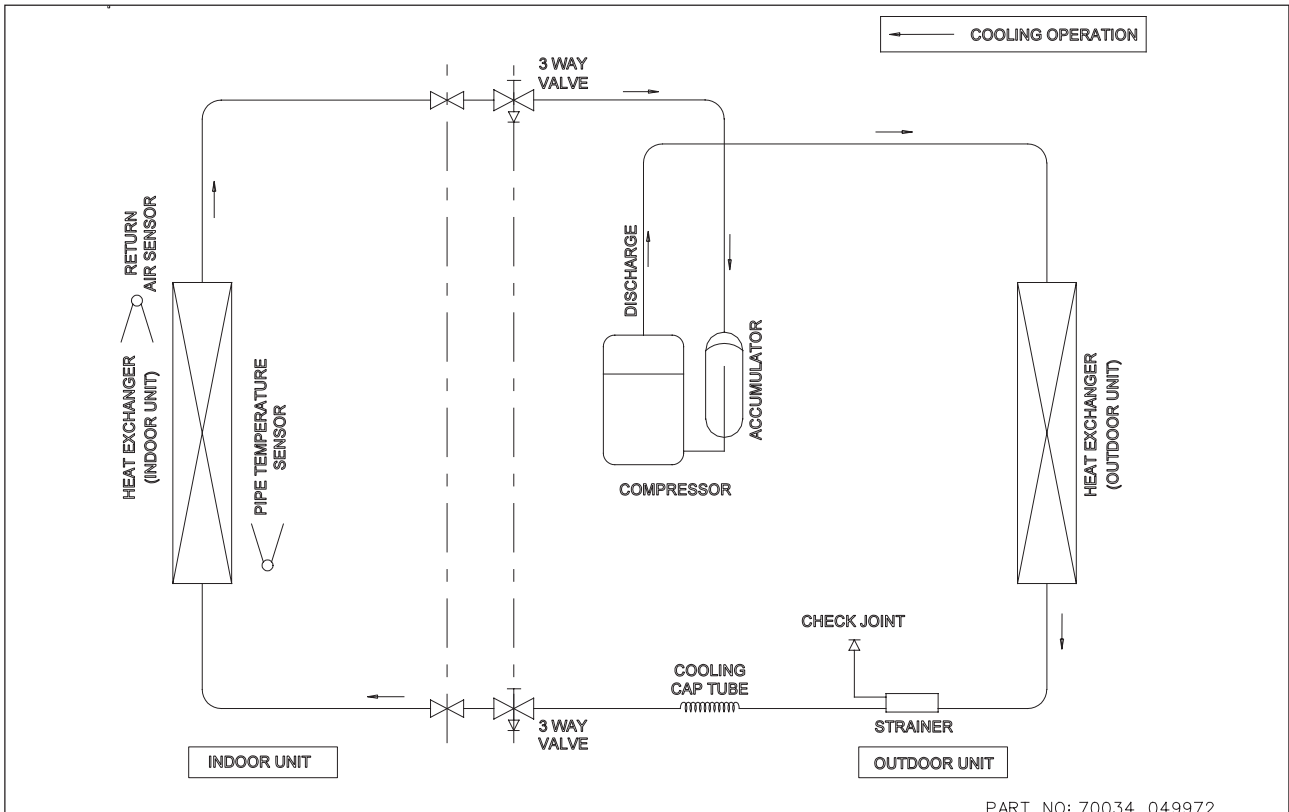
-  Standard operating range.
-  With High ambient unit. (Optional item)
Please refer to local dealer for unit of this specification.
-  With Low ambient kit. (Optional item)
Please refer to local dealer for unit of this specification.

REFRIGERANT CIRCUIT DIAGRAM

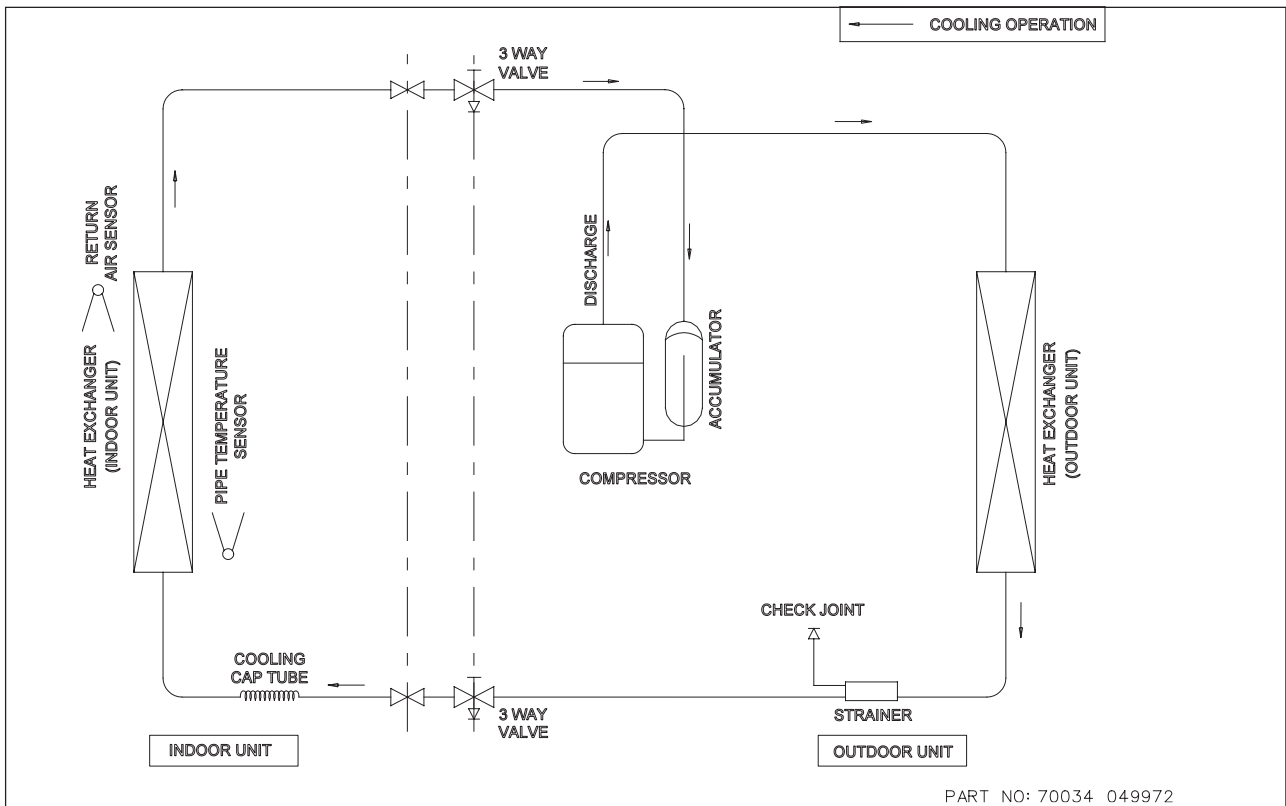
Model : ACK 20A - ALC 18/20C ACK / A5CK 10/15C - ALC / A5LC 10/15C
A5CK 20A - A5LC 20C ACK 20C - ALC 18/20C
A5CK 25A - A5LC 25C ACK 15B - ALC 15C
A5CK 20C - A5LC 20C



MODEL : ACK 25A - ALC 25C
ACK 25B - ALC 25C
A5CK 30A - A5LC 28C

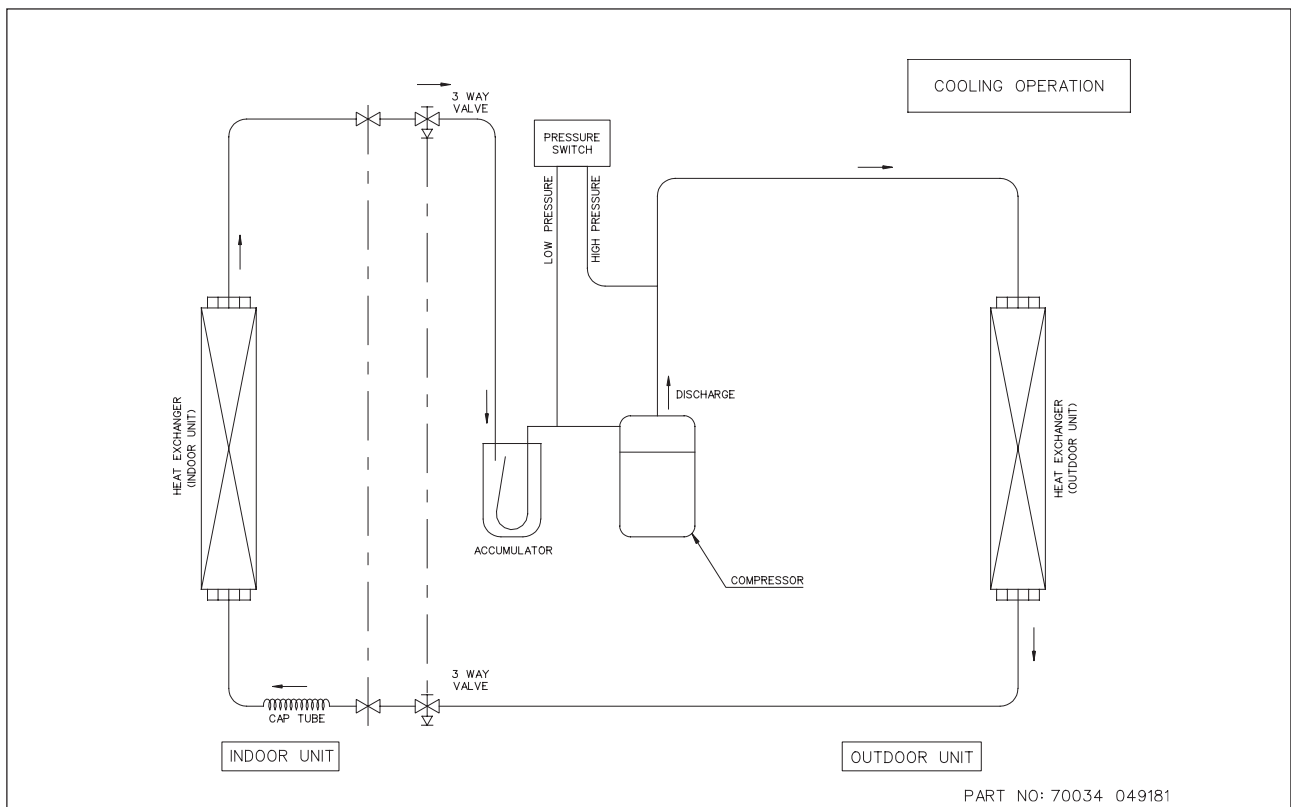


MODEL : ACK 30A - ALC 28C

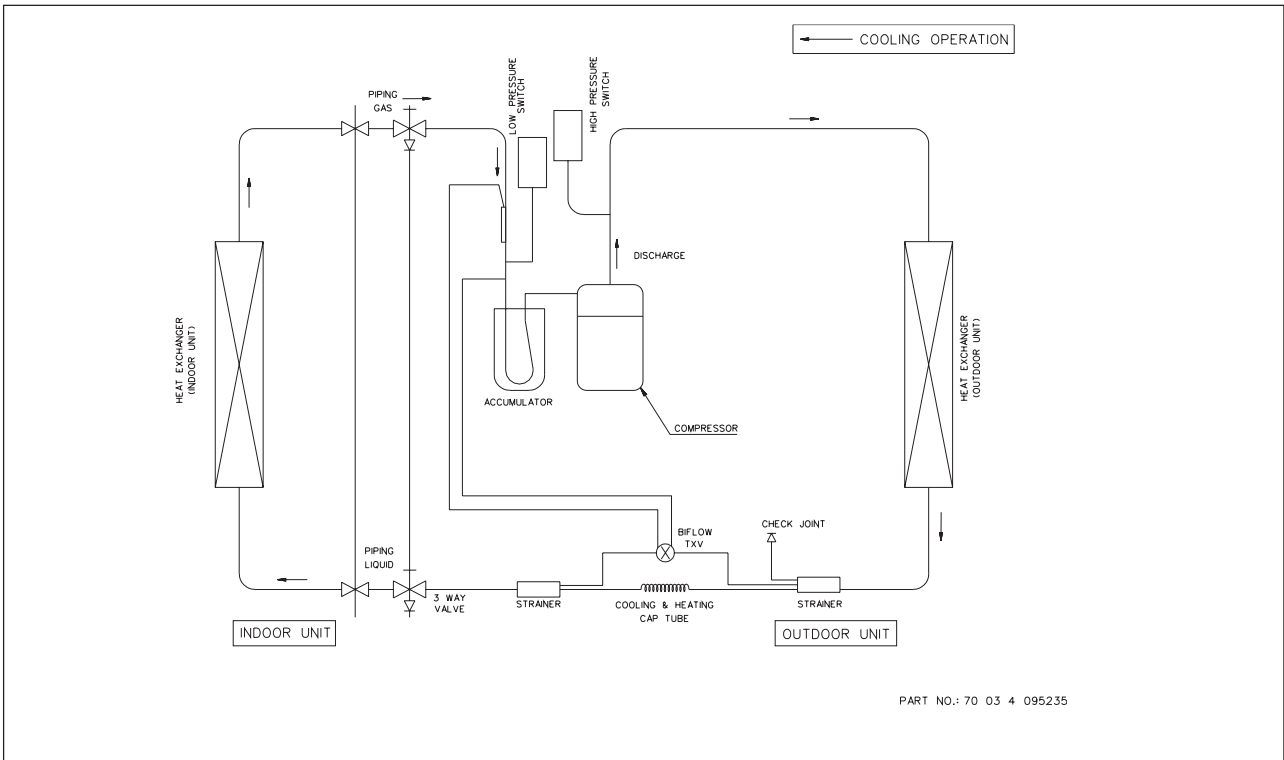


**MODEL : ACK 30A - ALC 30C
ACK 50A - ALC 50C**

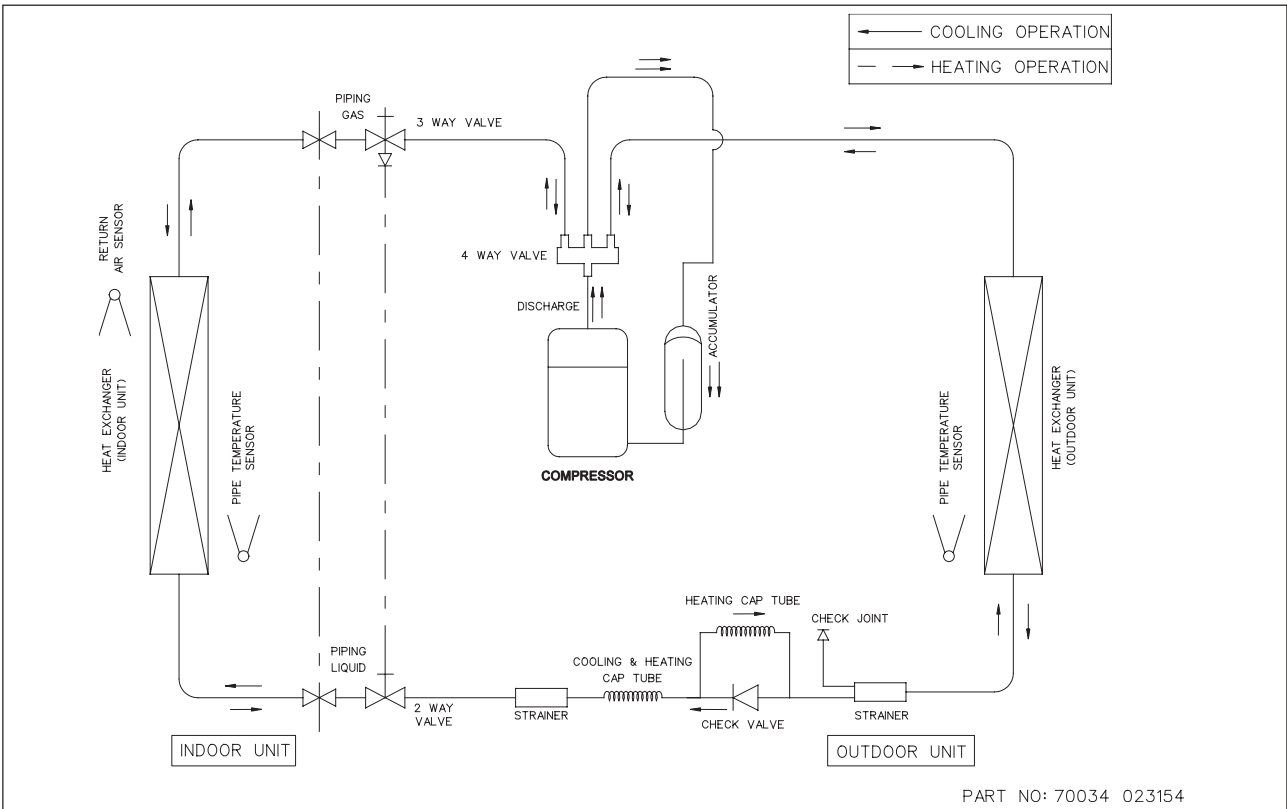
ACK 40A - ALC 35/40C



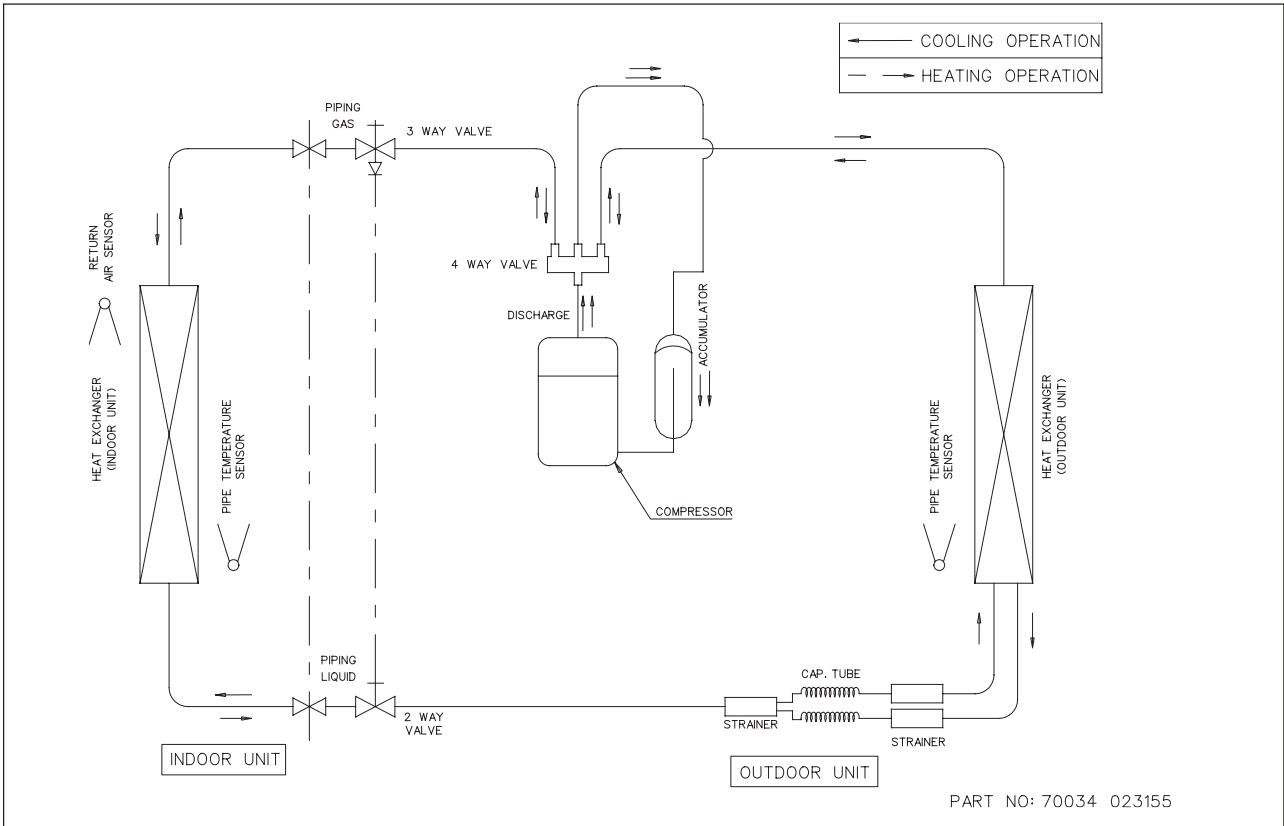
**MODEL : A5CK 30A - A5LC 35C
A5CK 40A - A5LC 35/40C
A5CK 50A - A5LC 50C**



MODEL : ACK / A5CK 10CR - ALC / A5LC 10CR

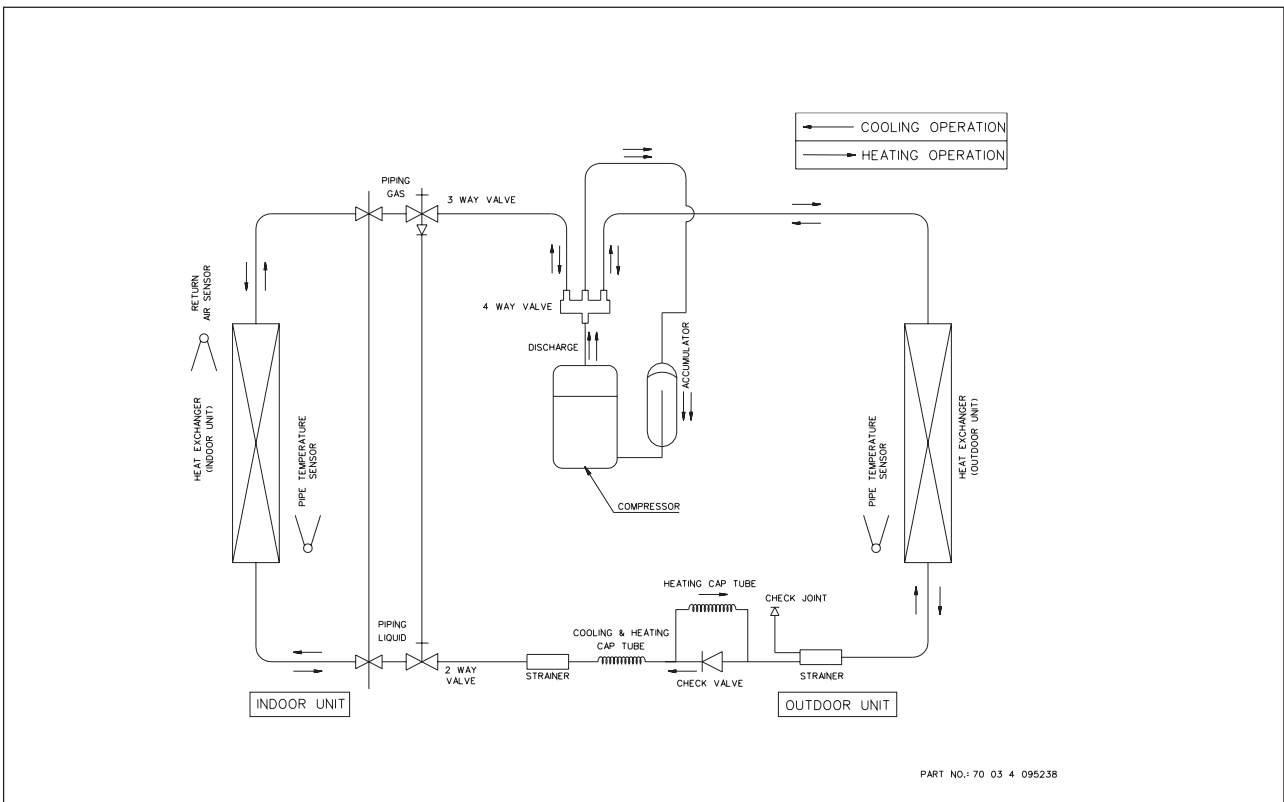


MODEL : ACK 15BR - ALC 15CR
ACK / A5CK 15CR - ALC / A5LC 15CR

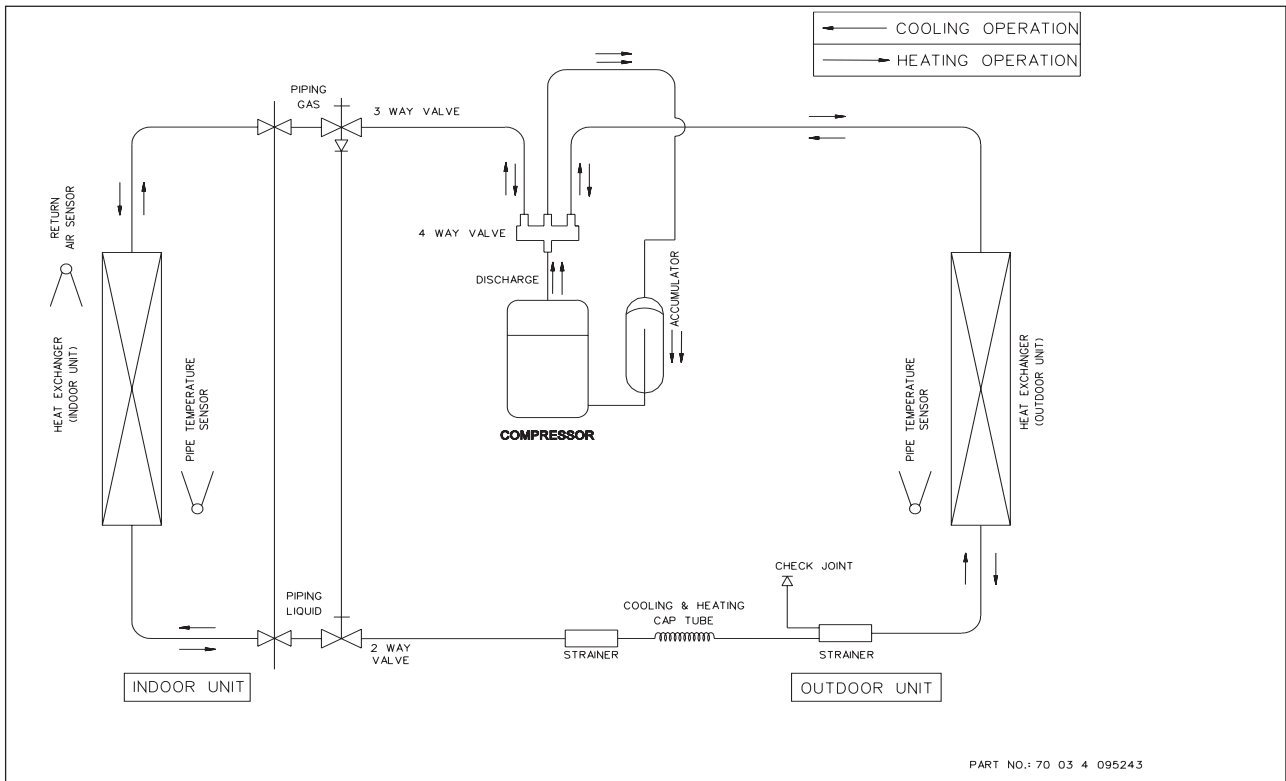


MODEI : ACK / A5CK 20AR - ALC / A5LC 20CR
ACK / A5CK 20CR - ALC / A5LC 20CR

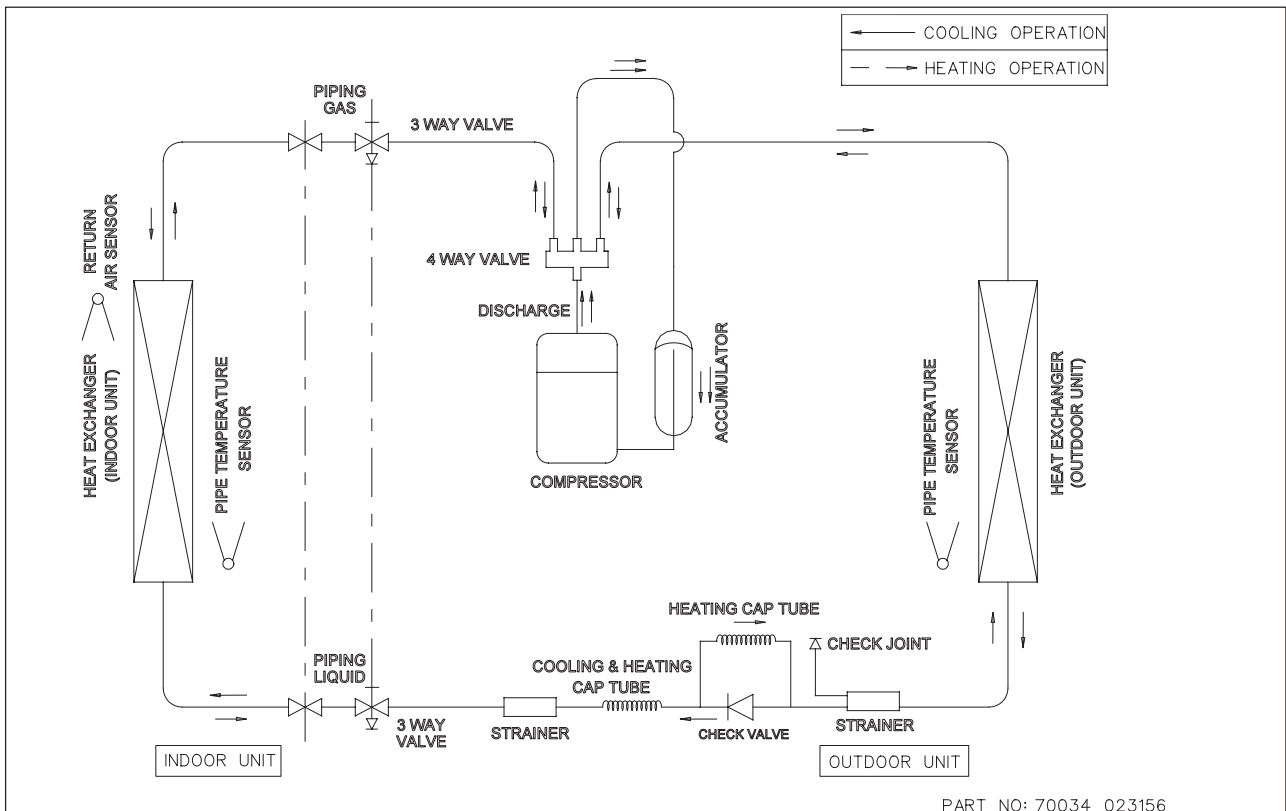
A5CK 25AR - A5LC 25CR



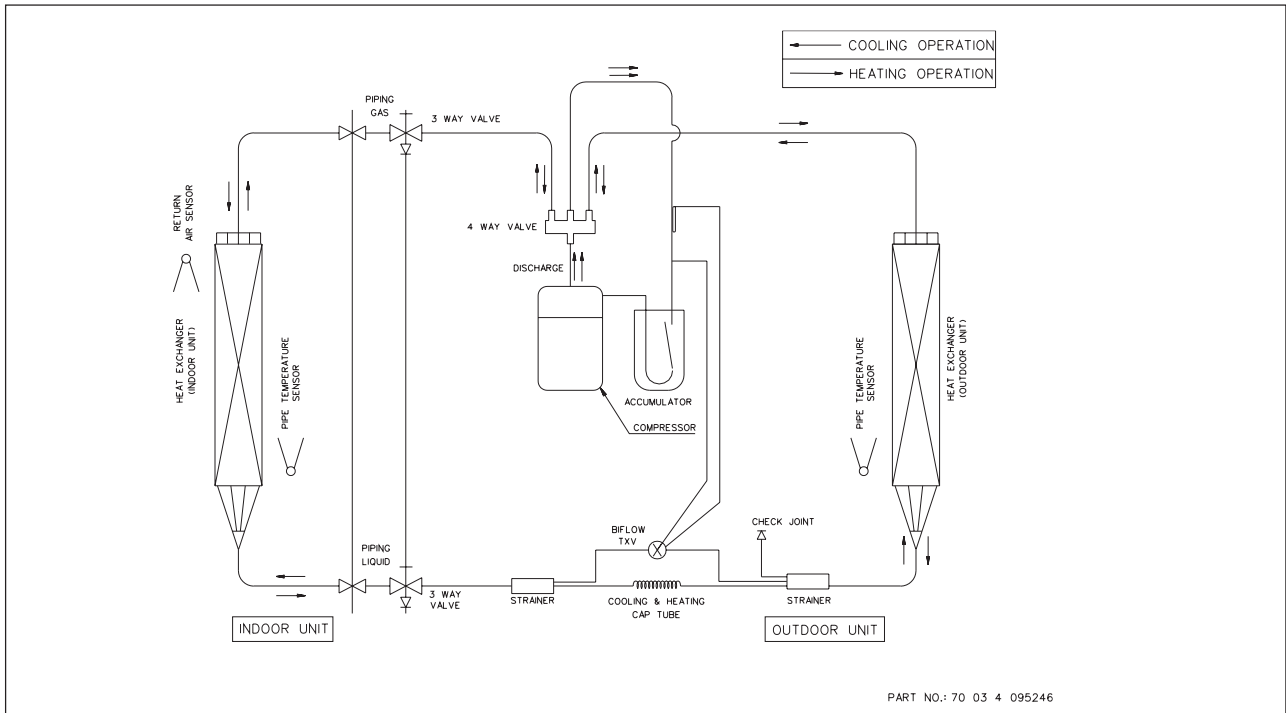
**MODEL : ACK 25BR - ALC 25CR
ACK 30AR - ALC 28CR**



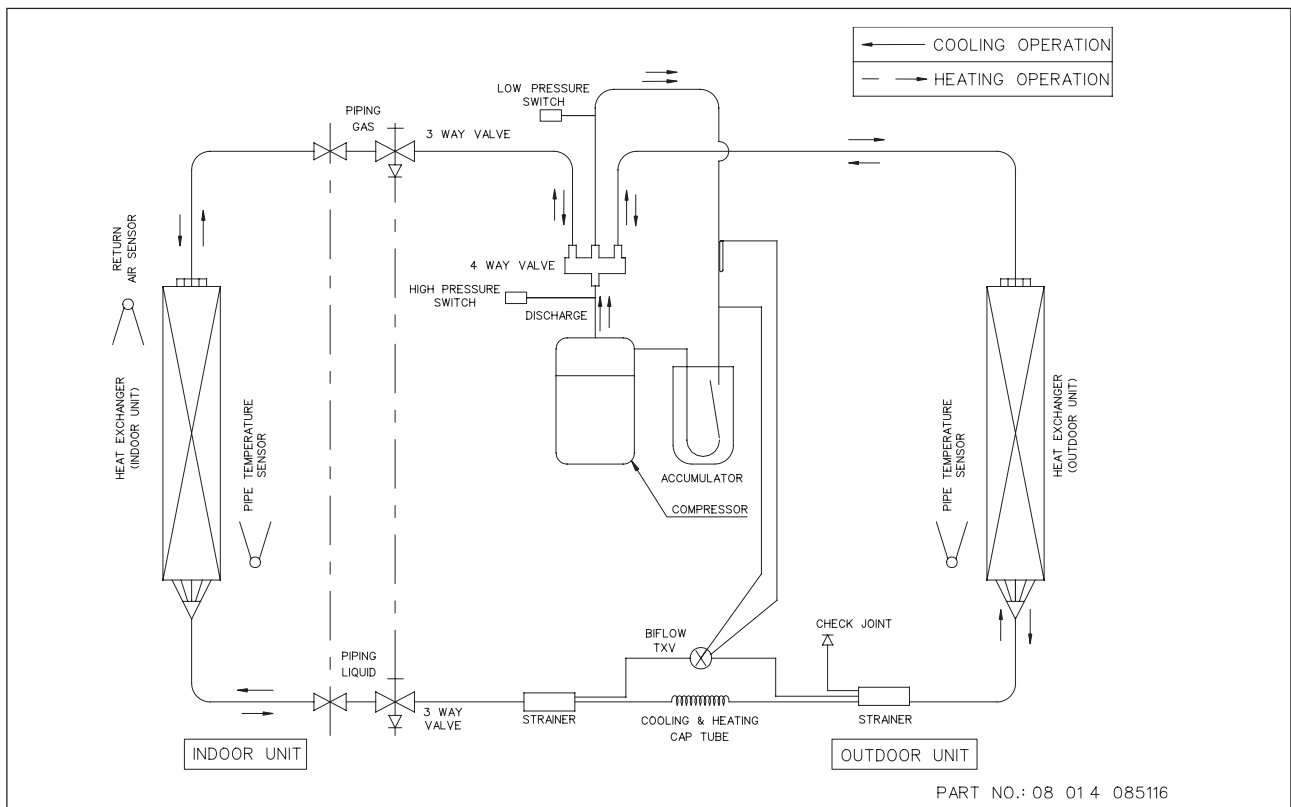
MODEL : ACK / A5CK 30AR - ALC / A5LC 28CR



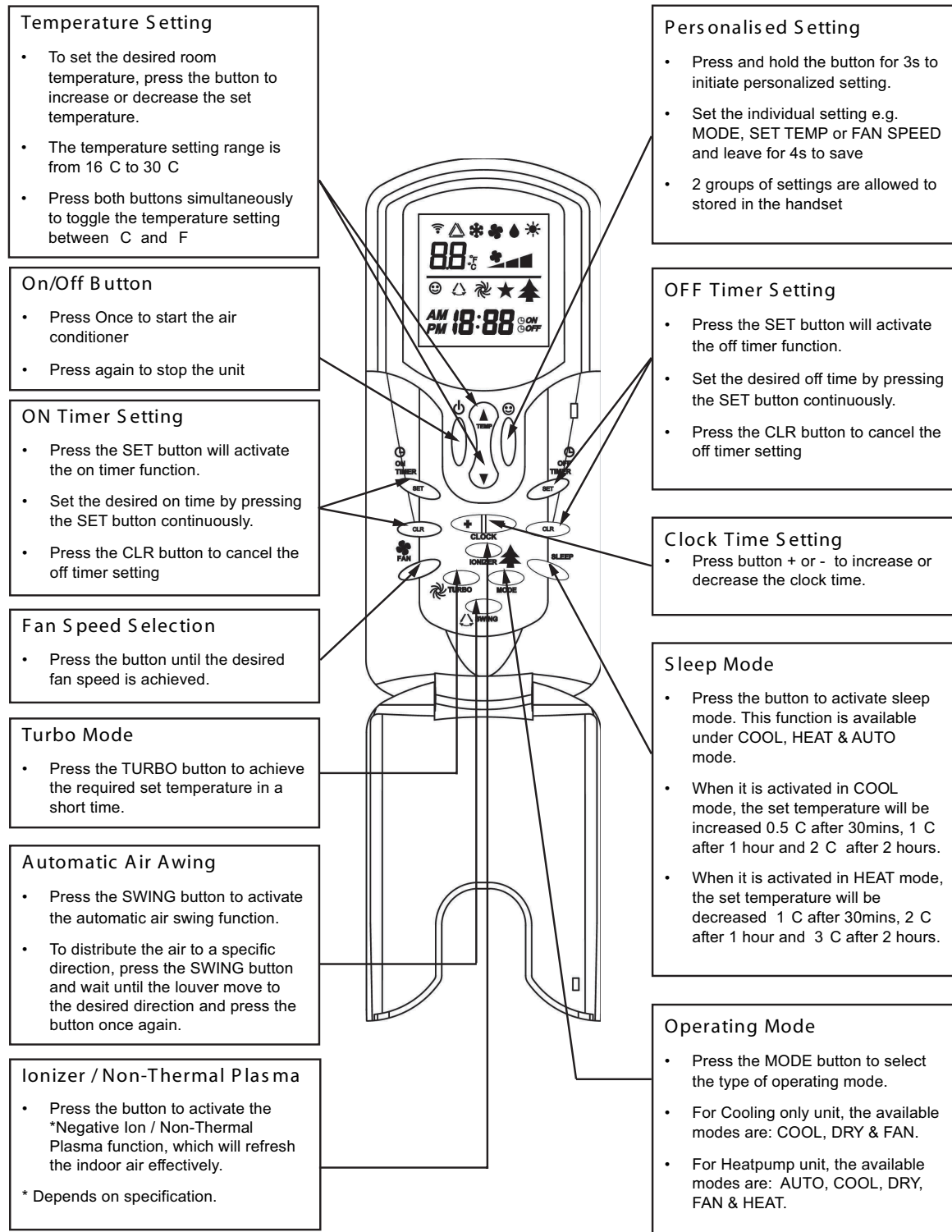
**MODEL : ACK 30AR - ALC 30CR
 ACK 40AR - ALC 35/40CR
 ACK 50AR - ALC 50CR**

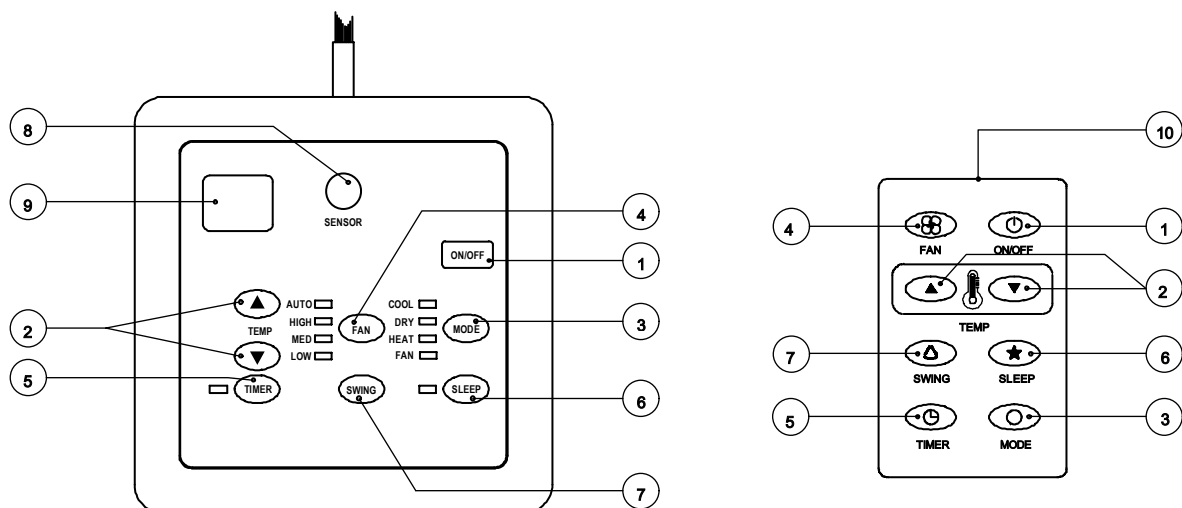


**MODEL : A5CK 30AR - A5LC 35CR
 A5CK 40AR - A5LC 35/40CR
 A5CK 50AR - A5LC 50CR**



G12 REMOTE CONTROLLER





1. "ON/OFF" SWITCH

- Press to start the air conditioner unit.
- Press again to stop the unit.

2. TEMPERATURE SETTING

- Set the desired room temperature.
- Press button to increase or decrease the set temperature. Setting range are between 16°C to 30°C (60°F to 80°F).

3. OPERATION MODES

- Press the "mode" button for select the type of operating mode.
 - Cooling Only :
COOL, DRY, FAN
 - Heat Pump :
AUTO, COOL, DRY, HEAT, FAN
(AUTO mode is represented by both COOL and HEAT LED light on)

4. FAN SPEED SELECTION.

- Press the button until the desired fan speed is achieved.

5. TIMER.

- Press the set button to select the switch timer of the air conditioner unit (the setting range is between 1 to 10 hours).

6. "SLEEP" MODE

- Press button to activate the sleep function can only be activated under "cool" or heating mode operation. activated under "cool" mode operation, the set temperature will increase 0.5°C after 30 minutes, 1°C after 1 hour and 2°C after 2 hours. If it is activated under "HEAT" mode operation, the set temperature will be decreased 0.5°C after 30 minutes, 1°C after 1 hour and 2°C after 2 hours.

7. AIR SWING

- Press button to activate the automatic air swing function.

8. SENSOR

- Infra red sensor to receive signals from wireless controller.

9. LED DISPLAY

- To display the set temperature (in °C) and timer delay setting (in hours).

10. TRANSMISSION SOURCE

- To transmit signals to the air conditioner.

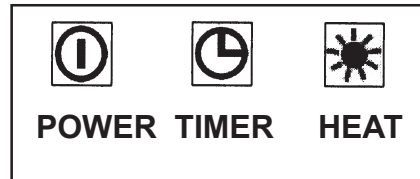
OPERATING STATE AND FAULT TABLE





Wireless Remote Control (Universal Board)

Cooling : LED Indicator Light Display



Heatpump : LED Indicator Light Display



 POWER	 TIMER	 SLEEP	 HEAT	Operation / Faulty Indication
○				Cool Mode
○	○			Timer On
○		○		Sleep Mode On
○			○	Heat Mode
○			●	Auto Mode - Cool
○			○	Auto Mode - Heat
	● 1 Time			Compressor Overload
	● 2 Times			Pump Fault
	● 3 Times			Gas Leak
● 1 Time				Room Sensor Open or Short
● 2 Times				Indoor Coil Sensor Open or Short
● 3 Times				Outdoor Coil Sensor Open or Short

○ ON ○ / ● ON or OFF ● BLINKING

WIRED REMOTE CONTROL (UNIVERSAL BOARD)

Cooling / Heatpump Model

Error Code at 7 Segment Display	Operation / Faulty Indication
Blink E1	Room sensor contact open / short
Blink E2	Indoor coil sensor contact open
Blink E3	Outdoor coil sensor contact open
Blink E4	Compressor overload/ Indoor coil sensor short/Outdoor coil sensor short
Blink E5	Gas leak
Blink E6	Pump faulty
Blink Heat LED	Outdoor defrost (for Heatpump only)

WATER PUMP

The water pump will on if compressor is on during cooling cycle. The pump will remain on for at least 5 minutes after the compressor is off.

During mode change from cooling to non-cooling mode, the pump will on for minimum 5 minutes. During defrost cycle, the pump will on and will on for another 5 minutes once the defrost cycle is terminated.

WATER LEVEL SWITCH

This normally close switch is to detect faults in water pump system. It will confirm for 30 seconds for switch open and 60 seconds for switch close.

Once switch is confirmed open, it will force compressor to cut off. If the switch is closed within 5 minutes, the compressor is allowed to cut in. If the switch does not close for more than 5 minutes, the system will warn user regarding the fault, the compressor is not allowed to cut in. If the switch is confirmed opened twice within 30 minutes, the system assumes there are faults.

PHASE SEQUENCER

The unit with Scroll Compressor can only rotate in one direction. For this reason, a protective device (phase sequencer) is fitted to prevent incorrect wiring of the electrical phases. When the three phases are not connected correctly, the phase sequencer operates, and the unit will not start. This device is located in the control box of the outdoor unit.

The following table shows the LED indicator light for phase sequencer under normal operation and fault conditions.

	LED_P (Red)	LED_R (Yellow)	LED_S (Yellow)	LED_T (Yellow)
Normal Operation	On	-	-	-
Reverse Phase	Blink	Blink	Blink	Blink
S & T Phase Missing	Blink	-	Blink	Blink
T Phase Missing	Blink	-	-	Blink
S Phase Missing	Blink	-	Blink	-
R Phase Missing	-	-	-	-
Overload	Blink	-	-	-
Sensor Missing	Blink	On	On	On

Notes: 1. "-" means LED off.

2. When R phase missing, no LED or buzzer will indicate the error, but relay 71 (Common) and 81 (NO) will cut off.

3. The unit will check the discharge sensor availability only during power up.

4. All errors can only recover through **manually reset**.



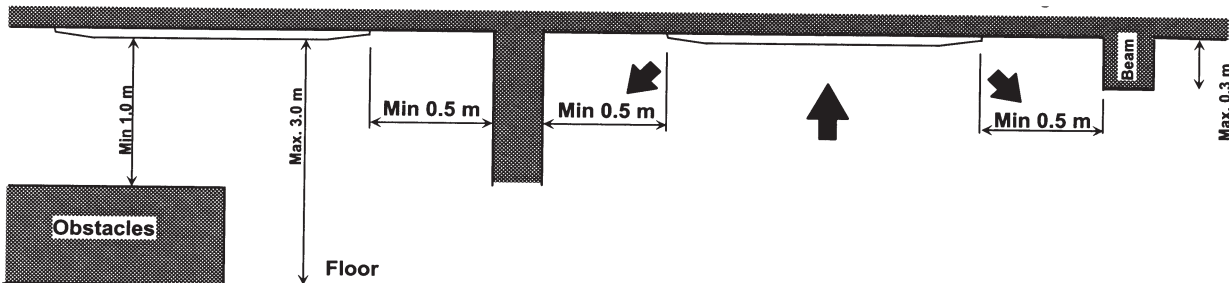
Caution

Sharp edges and coil surfaces are potential injury hazard. Avoid from contact with them.

(1) INSTALLATION OF INDOOR UNIT

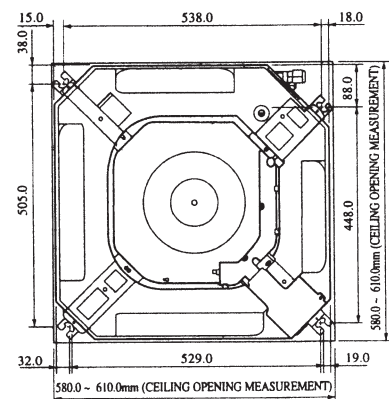
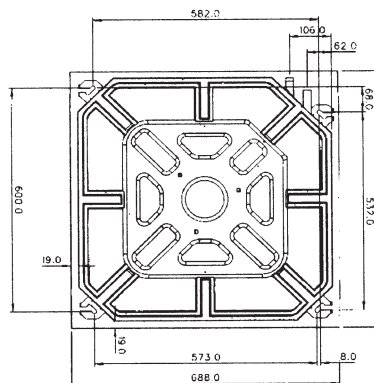
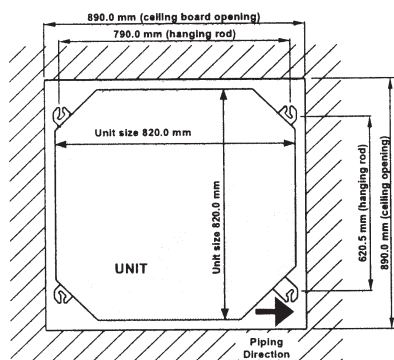
PRELIMINARY SITE SURVEY

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



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

UNIT INSTALLATION



ACK-A

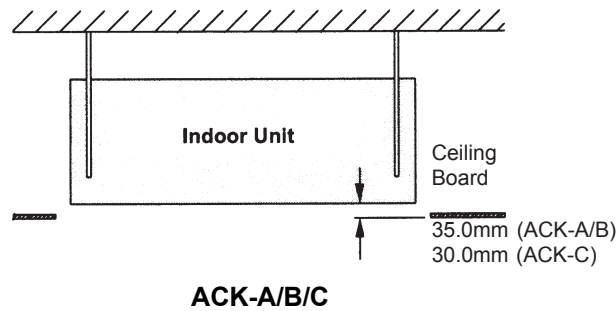
ACK-B

ACK-C

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

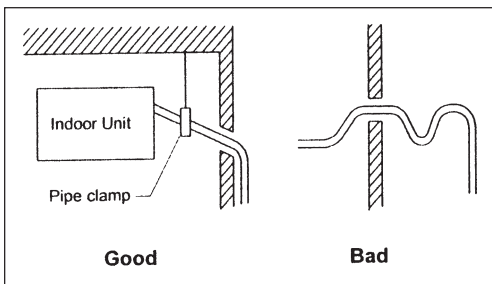
Note: Be sure to discuss the ceiling drilling work with the installers concerned.

UNIT HANGING



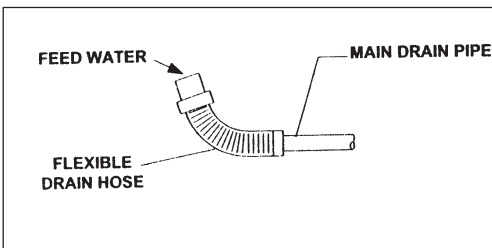
- Confirm the pitch of the hanging rod is 790.0mm X 620.5mm (ACK-A) / 600.0mm X 582.0mm (ACK-B).
- Hold the unit and hand it on the hanging rod with the nut and washer.
- Adjust the unit height to 35.0mm between the indoor unit bottom surface and the ceiling surface.
- Confirm with a level gauge that the unit is installed horizontally and tighten the nut and bol to prevent unit falling and vibration.
- Open the ceiling board along the outer edge of the paper installation template.

DRAIN PIPING WORK



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

DRAIN TEST

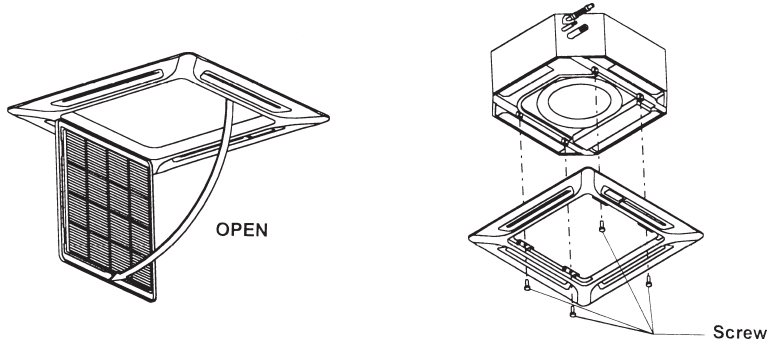


- Connect the main drain pipe to the flexible drain hose.
- Feed water from flexible drain hose and check the piping for leakage.
- When the test is completed, connect the flexible drain hose to the drain connector on the indoor unit.

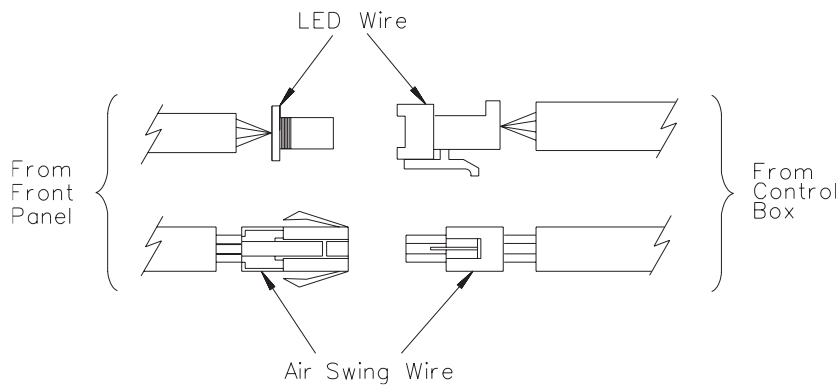
Note: This indoor unit use drain pump for condensed water drainage. Install the unit horizontally to prevent water leakage or condensation around the air outlet.

PANEL INSTALLATION

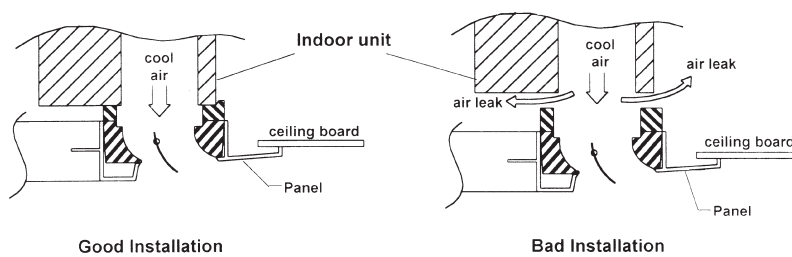
- The front panel can only be fitted in one direction, follow the piping direction. (Follow piping arrow sticker on the front panel).
- Be sure to remove the installation template before installing the front panel.



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



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

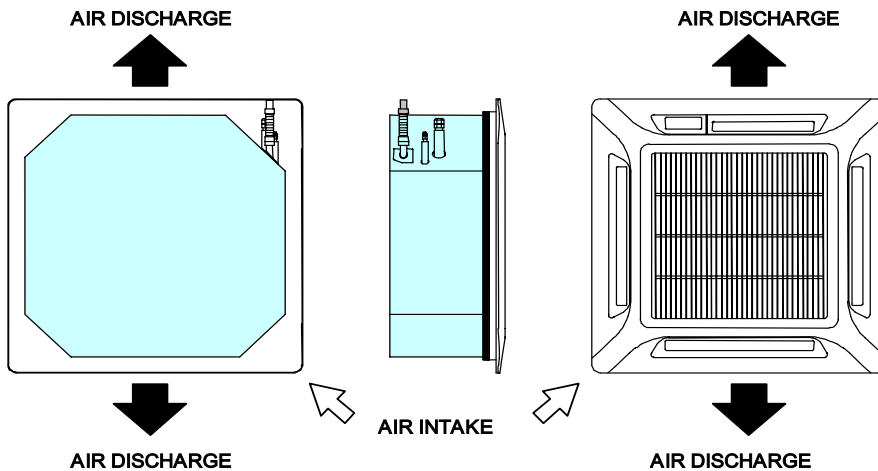


SHORT DUCT SPECIFICATION

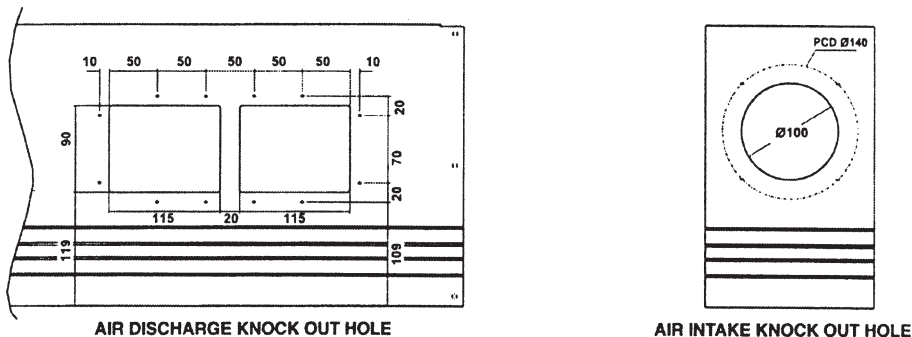
APPLICATION FOR ACK-A SERIES ONLY

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

POSSIBLE DIRECTION FOR AIR DISCHARGE AND AIR INTAKE



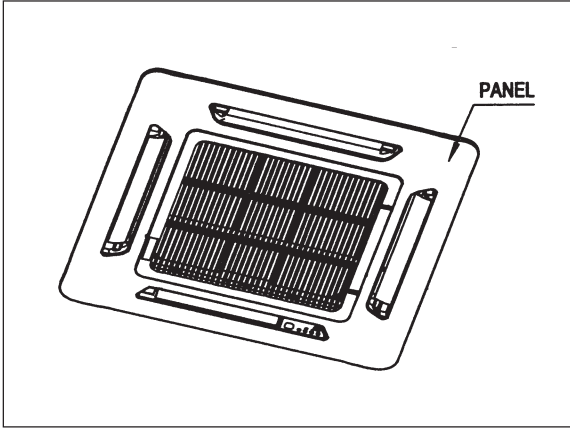
POSSIBLE OPENING DIMENSION FOR DUCT CONNECTION



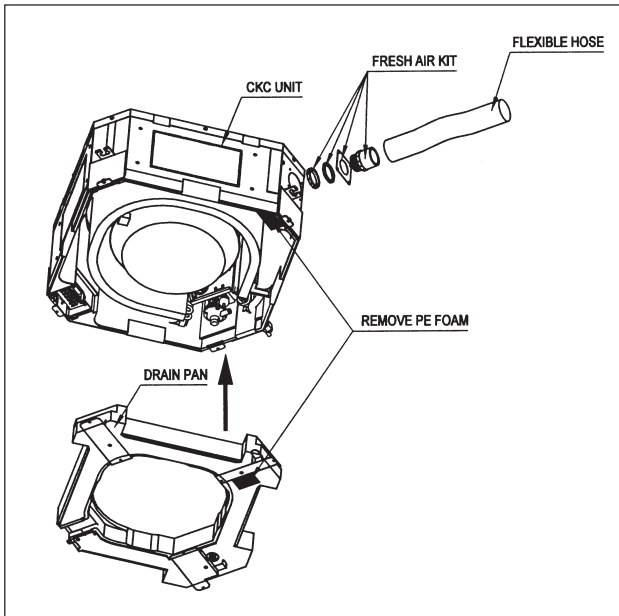
Note:

1. Avoid to use the short duct on which the air discharge grille can be completely closed, to prevent evaporator freezing.
2. In order to prevent condensation forming, be sure that there is sufficient thermal insulation and no leakage of cool air when installing the short duct.
3. Keep the introduction of fresh air intake within 20% of total air flow. Also provide a chamber and use a booster fan.

FRESH AIR INTAKE FOR ACK-C UNIT



Take off the panel from the indoor unit



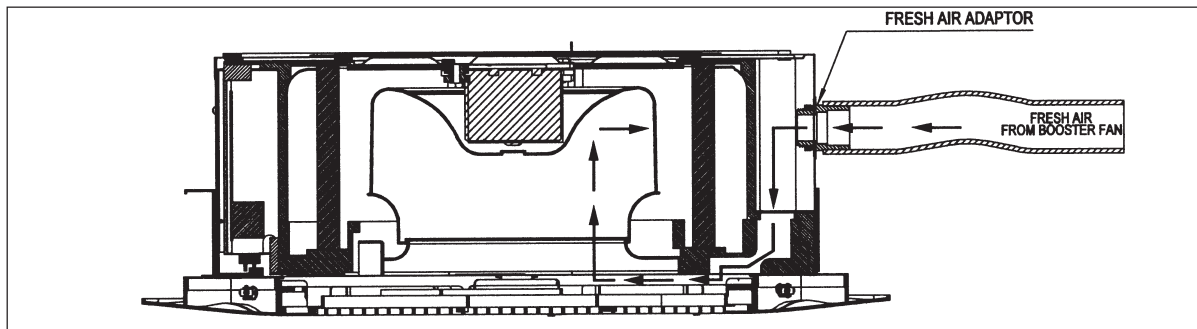
Remove the PE foam from the drain pan and another one on the unit.

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

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

Then, fix the fresh air kit (refer to parts list) to the hole.

Finally, a flexible duct is connected to let the fresh air moving in.



The direction of the fresh air intake is shown as figure 3.

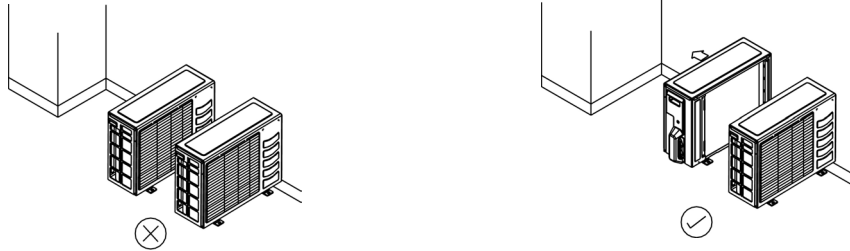
SEALING MATERIAL

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

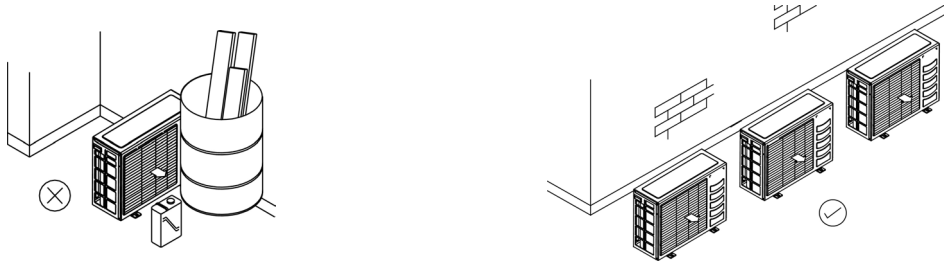
(2) INSTALLATION OF OUTDOOR UNIT

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 :

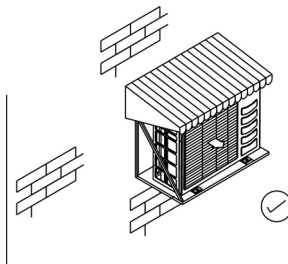
- Install the condensing (outdoor) unit in a way such that hot air distributed by the outdoor condensing unit cannot be drawn in again (as in the case of short circuit of hot discharge air). Allow sufficient space for maintenance around the unit.



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



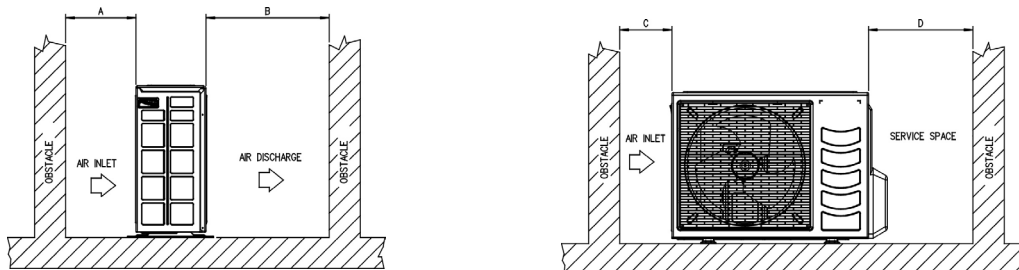
- The location must be well ventilated, so that the unit can draw in and distribute plenty of air thus lowering the condensing temperature.
- A place capable of bearing the weight of the outdoor unit and isolating noise and vibration.
- A place protected from direct sunlight. Otherwise use an awning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

(3) REFRIGERANT PIPING

MAXIMUM PIPING LENGTH AND MAXIMUM NUMBER OF BENDS

When the pipe length becomes too long, both the capacity and reliability drop. As the number of bends increases, system piping resistance to the refrigerant flow increases, thus lowering the cooling capacity, and as the result the compressor may become defective. Always choose the shortest path and follow the recommendation as tabulated below:

Model	Indoor	20A/AR	25A/AR	30A/AR		40A/AR	50A/AR
	Outdoor	18 / 20C/CR	25C/CR	28C/CR	30C/CR	35 / 40C/CR	50C/CR
Maximum Length, m		15	15	15	45	45	45
Maximum Elevation, m		8	8	8	25	25	25
Maximum No. of Bends		10	10	10	10	10	10

Model	Indoor	15B/BR	20B/BR	25B/BR
	Outdoor	15C/CR	18 / 20C/CR	25C/CR
Maximum Length, m		12	15	15
Maximum Elevation, m		5	8	8
Maximum No. of Bends		10	10	10

Model	Indoor	10C/CR	15C/CR	20C/CR
	Outdoor	10C/CR	15C/CR	18 / 20C/CR
Maximum Length, m		12	12	15
Maximum Elevation, m		5	5	8
Maximum No. of Bends		10	10	10

PIPING SIZES (FLARE CONNECTION TYPE)

Piping sizes are as follows:

R22

Model	ALC 10C/CR	ALC 15C/CR	ALC 18/20C/CR	ALC 25C/CR
Liquid (mm/in)	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4	9.52 / 3/8
Suction (mm/in)	9.52 / 3/8	12.70 / 1/2	15.88 / 5/8	15.88 / 5/8

Model	ALC 28C/CR	ALC 30C/CR	ALC 35 / 40C/CR	ALC 50C/CR
Liquid (mm/in)	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8
Suction (mm/in)	15.88 / 5/8	15.88 / 5/8	19.05 / 3/4	19.05 / 3/4

R410A

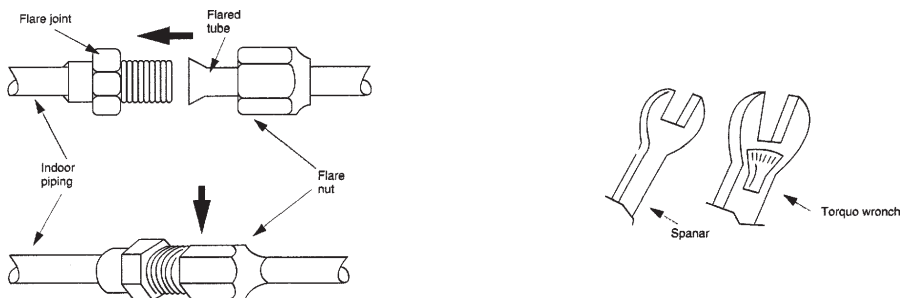
Model	A5LC 10C/CR	A5LC 15C/CR	A5LC 20C/CR	A5LC 25C/CR
Liquid (mm/in)	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4
Suction (mm/in)	9.52 / 3/8	12.70 / 1/2	12.70 / 1/2	15.88 / 5/8

Model	A5LC 28C/CR	A5LC 35C/CR	A5LC 40C/CR	A5LC 50C/CR
Liquid (mm/in)	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8
Suction (mm/in)	15.88 / 5/8	15.88 / 5/8	15.88 / 5/8	15.88 / 5/8

PIPING CONNECTION TO THE UNITS

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

Pipe Size (mm/in)	Torque (Nm)
6.35 (1/4)	18
9.52 (3/8)	42
12.70 (1/2)	55
15.88 (5/8)	65
19.05 (3/4)	78



(4) WIRING

ELECTRICAL CONNECTIONS

Wiring regulations on wire diameters differ from country to country. Please refer to your LOCAL ELECTRICAL CODES for field wiring rules. Be sure that installation is complied with such rules and regulations.

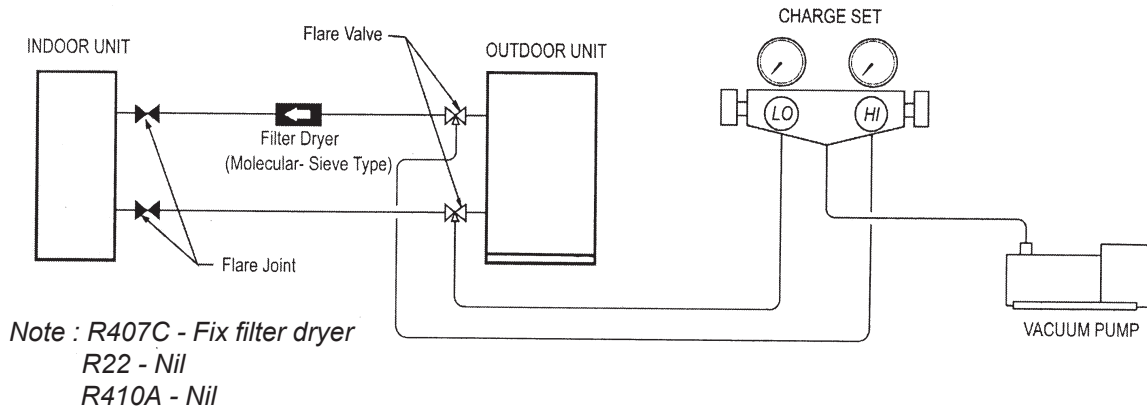
GENERAL PRECAUTIONS

- Ensure that the rated voltage of the unit corresponds to the nameplate before carrying out proper wiring according to the wiring diagram.
- Provide a power outlet to be used exclusively for each unit. A power supply disconnects and a circuit breaker for over current protection should be provided in the exclusive line.
- All wiring must be GROUNDED to prevent possible hazards due to insulation failures.
- All wiring must be firmly connected.
- All wiring must not come in contact with the hot refrigerant piping, compressor or any moving parts of fan motors.

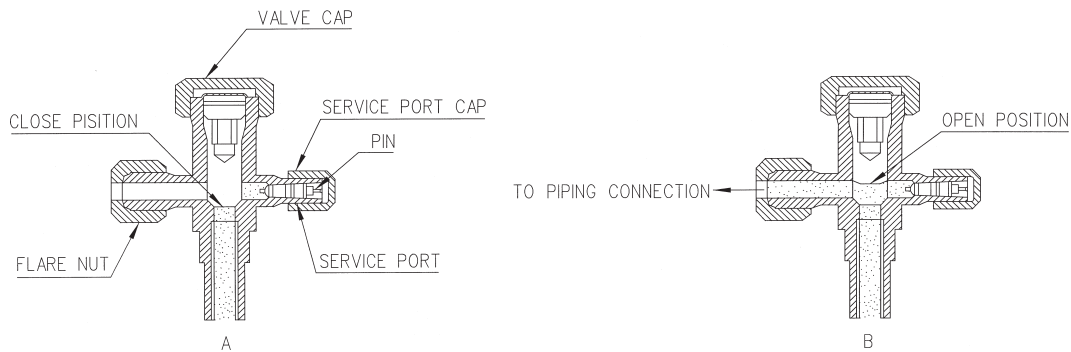
(5) VACUUMING AND CHARGING

The pre-charged outdoor unit does not need any vacuuming or charging. However once it is connected, the connecting pipe line and the indoor unit 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 (-760mmHg) or lower. (Evacuation time varies by the pump but averagely in 1 hour).



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



CAUTION FOR R407C / R410A

Do not top-up when servicing leak, as this will reduce the unit performance. Vacuum the unit thoroughly and then charge the unit with fresh R407C according to the amount recommended in the specification.

6) ADDITIONAL CHARGE

- The refrigerant charge has already charged into the outdoor unit. For the piping length of 7.6m, additional refrigerant charge after vacuuming is not necessary.
- When the piping length is more than 7.6m, please use the table below (unit in gram).

ACK-A SERIES

R22

Model	10m	12m	15m	25m	35m	45m
18C/CR	37 / 54	69 / 98	115 / 166	-	-	-
20C/CR	37 / 53	69 / 97	115 / 164	-	-	-
25C/CR	94 / 134	172 / 245	289 / 412	-	-	-
28C/CR	132 / 137	243 / 251	408 / 423	-	-	-
30C/CR	134 / 136	245 / 249	412 / 419	970 / 986	1527 / 1553	2084 / 2120
35C/CR	130 / 137	238 / 251	400 / 422	940 / 992	1481 / 1562	2021 / 2132
40C/CR	133 / 137	244 / 251	411 / 422	965 / 992	1520 / 1562	2075 / 2132
50C/CR	131 / 133	241 / 243	405 / 409	953 / 963	1500 / 1516	2048 / 2069

R410A

Model	10m	12m	15m	25m	35m	45m
20C/CR	25 / 37	45 / 68	76 / 115	-	-	-
25C/CR	62 / 88	114 / 161	191 / 270	-	-	-
28C/CR	65 / 98	118 / 180	199 / 303	-	-	-
35C/CR	65 / 98	118 / 180	199 / 303	469 / 712	738 / 1122	1007 / 1531
40C/CR	61 / 97	112 / 178	189 / 299	445 / 703	700 / 1107	956 / 1511
50C/CR	50 / 87	92 / 159	155 / 267	363 / 628	572 / 989	781 / 1350

ACK-B SERIES

R22

Model	10m	12m	15m	25m	35m	45m
15C/CR	37 / 55	69 / 100	-	-	-	-
20C/CR	38 / 53	69 / 97	117 / 163	-	-	-
25C/CR	93 / 134	171 / 246	287 / 413	-	-	-

ACK-C SERIES

R22

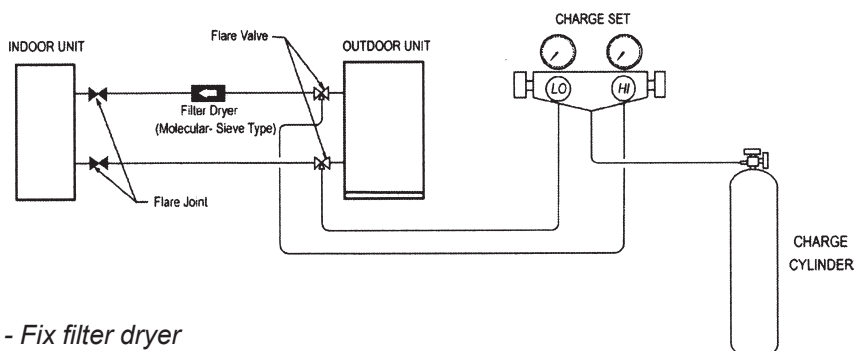
Model	10m	12m	15m	25m	35m	45m
10C/CR	38 / 54	70 / 100	-	-	-	-
15C/CR	37 / 55	69 / 100	-	-	-	-
18C/CR	38 / 54	70 / 98	117 / 166	-	-	-
20C/CR	38 / 53	70 / 97	117 / 163	-	-	-

R410A

Model	10m	12m	15m	25m	35m	45m
10C/CR	23 / 38	43 / 70	-	-	-	-
15C/CR	21 / 40	38 / 74	-	-	-	-
20C/CR	24 / 28	44 / 52	74 / 87	-	-	-

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

Diagram shows typical charging method:



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

CAUTION FOR R407C / 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.

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 vapour 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 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

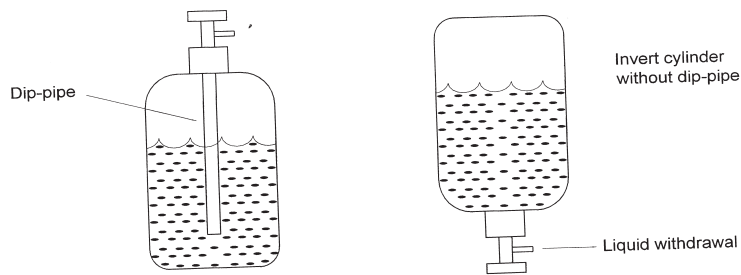
- Tubing
Refrigerant R410A is more easily affected by dust or moisture compared with R22, make sure to temporarily cover the ends of the tubing prior to installation.
- Compressor oil
No additional charge of compressor oil is permitted.
- Refrigerant
No other refrigerant other than R410A
- Tools (size of service port is different from R22 system)
Tools specifically for R410A only (must not be used for R22 or other refrigerant)
 - i) Gauge manifold and charging hose
 - ii) Gas leak detector
 - iii) Refrigerant cylinder/charging cylinder
 - iv) 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 hygroscopic 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 (700mmHg) 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 vapour composition.



- (e) 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.

(7) OVERALL CHECKING

- Ensure the following, in particular:
 1. The unit is mounted solidly and rigid in position.
 2. Piping and connections are leak proof after charging.
 3. Proper wiring has been done.
- Drainage check – pour some water into drain pan.
- Test run
 1. Conduct a test run after water drainage test and gas leakage test.
 2. Watch out for the following:
 - (a) Is the electric plug firmly inserted into the socket?
 - (b) Is there any abnormal sound from the unit?
 - (c) Is there any abnormal vibration with regard to the unit itself or piping?
 - (d) Is there smooth drainage of water?
- Check that:
 1. Outdoor fan is running, with warm air blowing off the outdoor unit (cooling cycle).
 2. Indoor blower is running and discharge cool air (cooling cycle).
 3. Suction (low side) pressure is as per recommendations.
 4. The remote controller has incorporated a 3 minutes delay in the circuit. Thus, it requires about 3 minutes before the outdoor unit can start up.

(8) STANDARD OPERATING CONDITION

COOLING UNIT ONLY

Temperature	T_s °C / °F	T_h °C / °F
Minimum Indoor Temperature	19.4 / 66.9	13.9 / 57.0
Maximum Indoor Temperature	26.7 / 80.1	19.4 / 66.9
Minimum Outdoor Temperature	19.4 / 66.9	13.9 / 57.0
Maximum Outdoor Temperature	46 / 114.8	24 / 75.2

HEAT PUMP UNIT

Temperature	T_s °C / °F	T_h °C / °F
Minimum Indoor Temperature	10 / 50	-
Maximum Indoor Temperature	26.7 / 80.1	-
Minimum Outdoor Temperature	-8 / 17.6	-9 / 15.8
Maximum Outdoor Temperature	24 / 75.2	18 / 64.4

T_s : Dry Bulb Temperature

T_h : Wet Bulb Temperature

4. SOUND DATA

ACK-A/AR

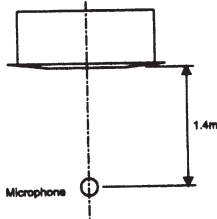
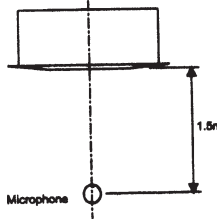
Model	Speed	1/1 Octave A-weighted Sound Pressure (dBA), ref 20 μ Pa							Overall A(dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
ACK20A/AR	High	46	45	40	38	32	21	14	42	37
	Medium	44	43	37	33	28	18	12	39	32
	Low	43	42	35	31	26	17	11	37	31
ACK25A/AR	High	48	46	43	39	33	27	19	45	38
	Medium	45	43	40	35	29	21	15	42	35
	Low	43	42	38	32	27	19	14	40	33
ACK30A/AR	High	50	48	47	43	37	35	28	49	42
	Medium	48	45	43	38	32	31	27	45	38
	Low	46	43	41	35	30	30	26	43	36
ACK40A/AR	High	50	49	49	46	39	38	31	51	45
	Medium	48	47	47	43	36	34	25	48	42
	Low	46	45	46	41	34	30	23	46	41
ACK50A/AR	High	54	52	51	48	43	42	34	53	47
	Medium	52	50	50	46	41	40	32	52	45
	Low	51	49	49	45	39	39	31	50	45

ACK-B/BR

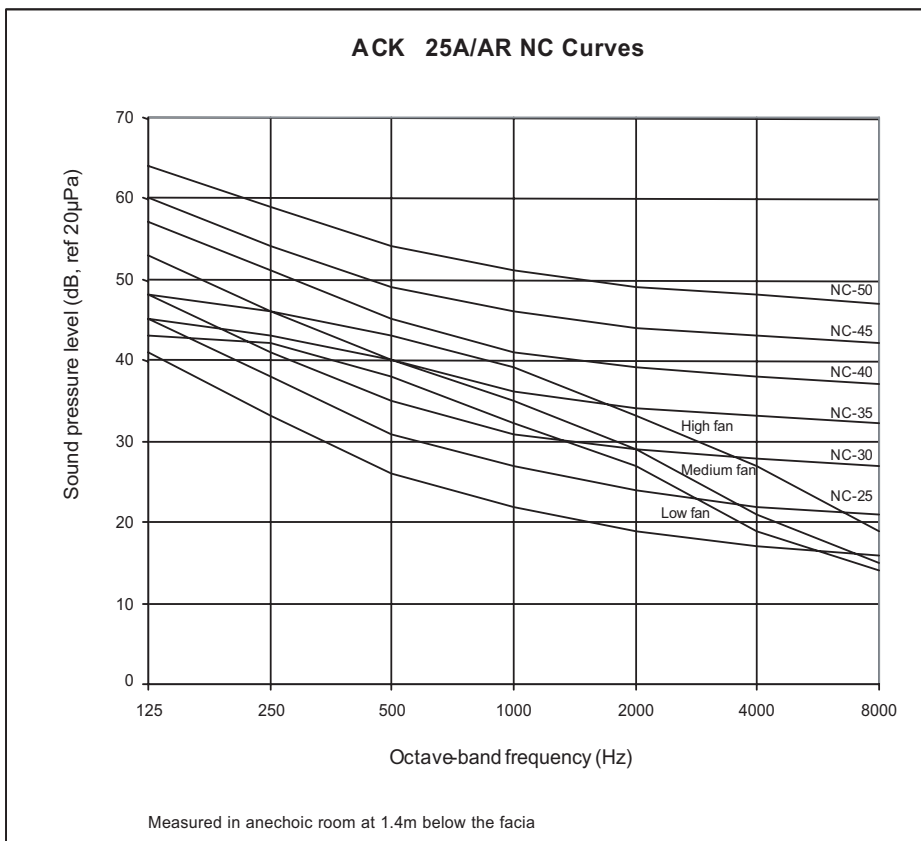
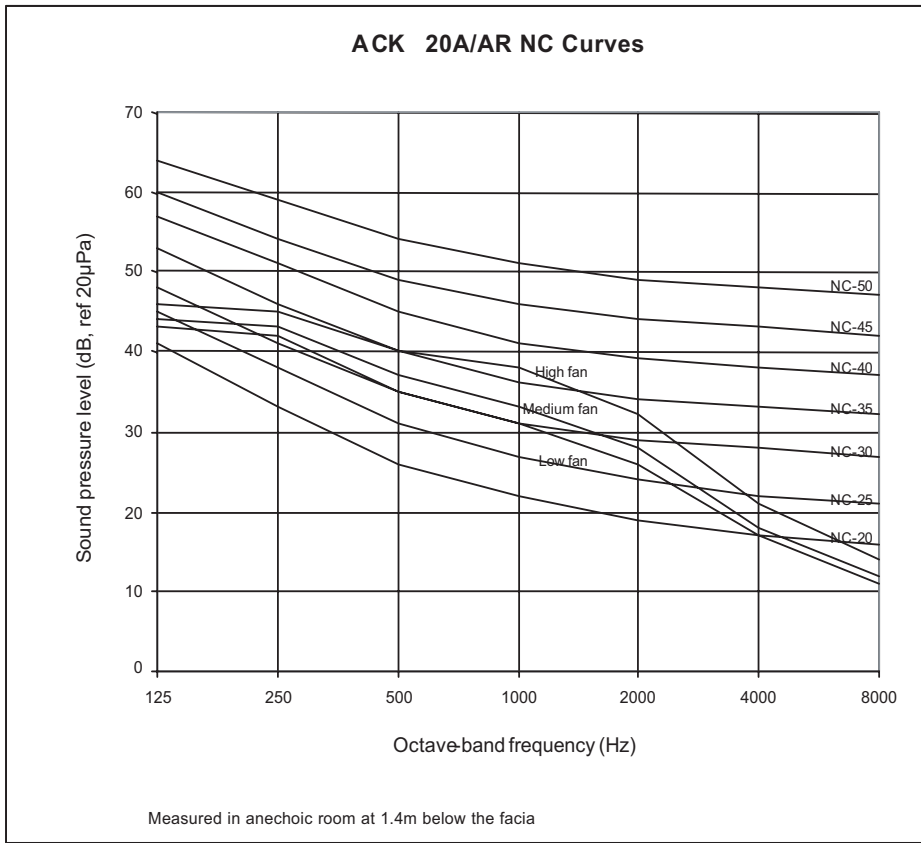
Model	Speed	1/1 Octave A-weighted Sound Pressure (dBA), ref 20 μ Pa							Overall A(dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
ACK15B/BR	High	41	42	42	34	30	23	13	41	37
	Medium	40	40	39	30	28	17	10	38	34
	Low	38	39	38	29	27	15	8	36	33
ACK20B/BR	High	42	43	43	35	31	24	14	42	38
	Medium	40	42	41	34	30	23	12	40	36
	Low	39	40	38	29	28	15	9	37	33
ACK25B/BR	High	47	45	46	38	34	28	17	45	41
	Medium	42	43	43	35	31	24	14	42	38
	Low	40	41	40	32	30	20	11	39	35

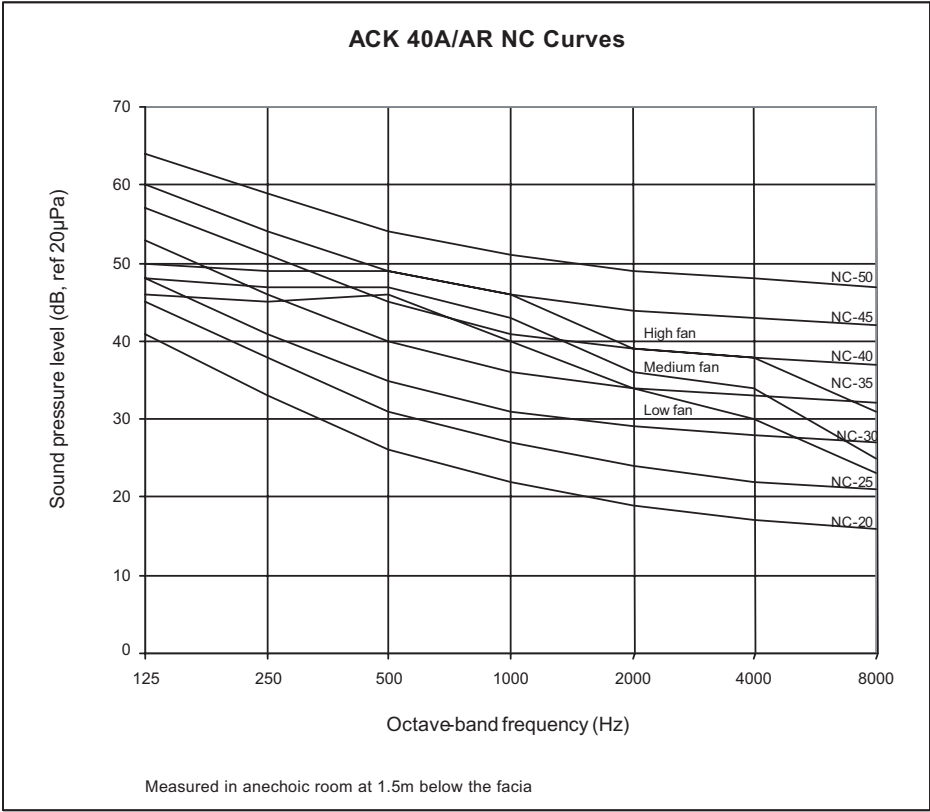
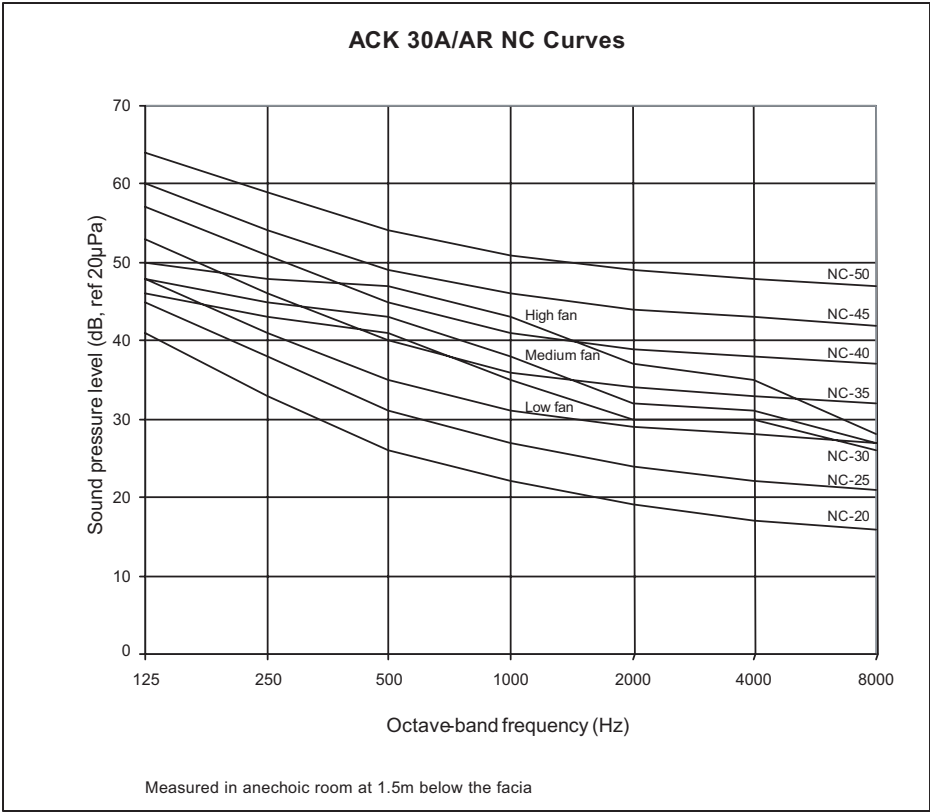
ACK-C/CR

Model	Speed	1/1 Octave A-weighted Sound Pressure (dBA), ref 20 μ Pa							Overall A(dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
ACK10C/CR	High	43	46	43	40	33	30	20	44	39
	Medium	42	44	42	39	32	28	19	43	38
	Low	41	43	40	37	30	25	17	42	36
ACK15C/CR	High	45	43	42	39	34	30	19	44	38
	Medium	44	42	40	38	33	28	17	42	37
	Low	43	41	39	36	31	25	16	41	35
ACK20C/CR	High	46	46	45	42	36	38	26	47	41
	Medium	45	46	43	41	35	37	23	46	40
	Low	43	44	42	39	33	35	20	44	38

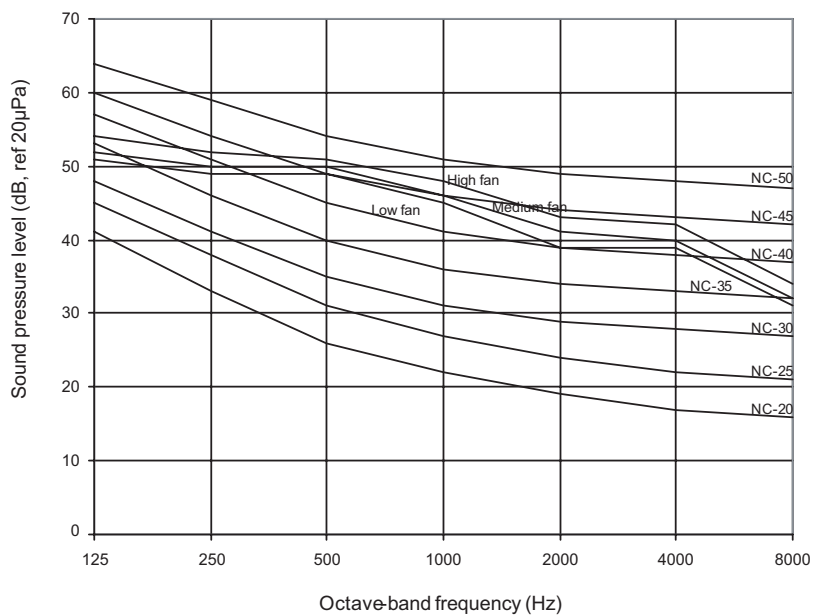
Model	Measuring location
<p> ACK / A5CK 20A/AR ACK / A5CK 25A/AR ACK 15B/BR ACK 20B/BR ACK 25B/BR ACK / A5CK 10C/CR ACK / A5CK 15C/CR ACK / A5CK 20C/CR </p>	<p>Standard : JIS C 9612</p> 
<p> ACK / A5CK 30A/AR ACK / A5CK 40A/AR ACK / A5CK 50A/AR </p>	<p>Standard : JIS B 8615</p> 

NC CURVES



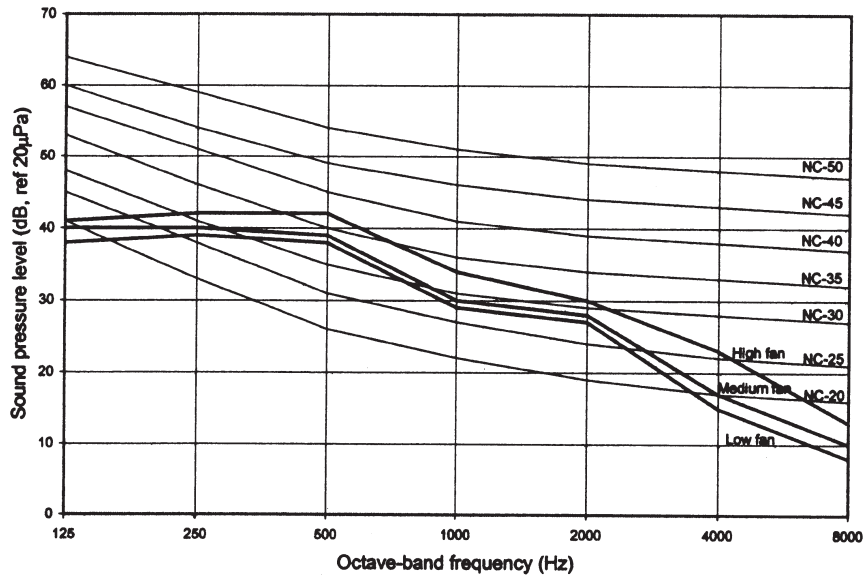


ACK 50A/AR NC Curves

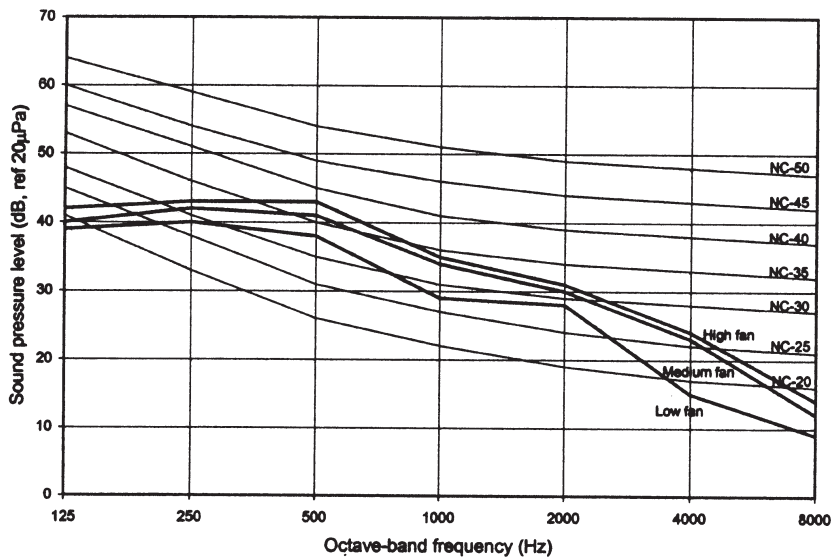


Measured in anechoic room at 1.5m below the facia

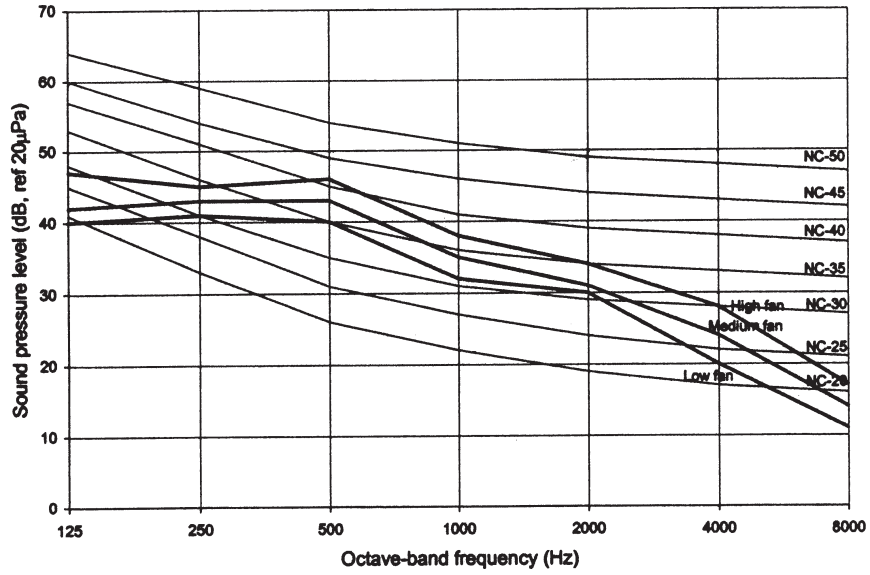
ACK 15B/BR NC Curves



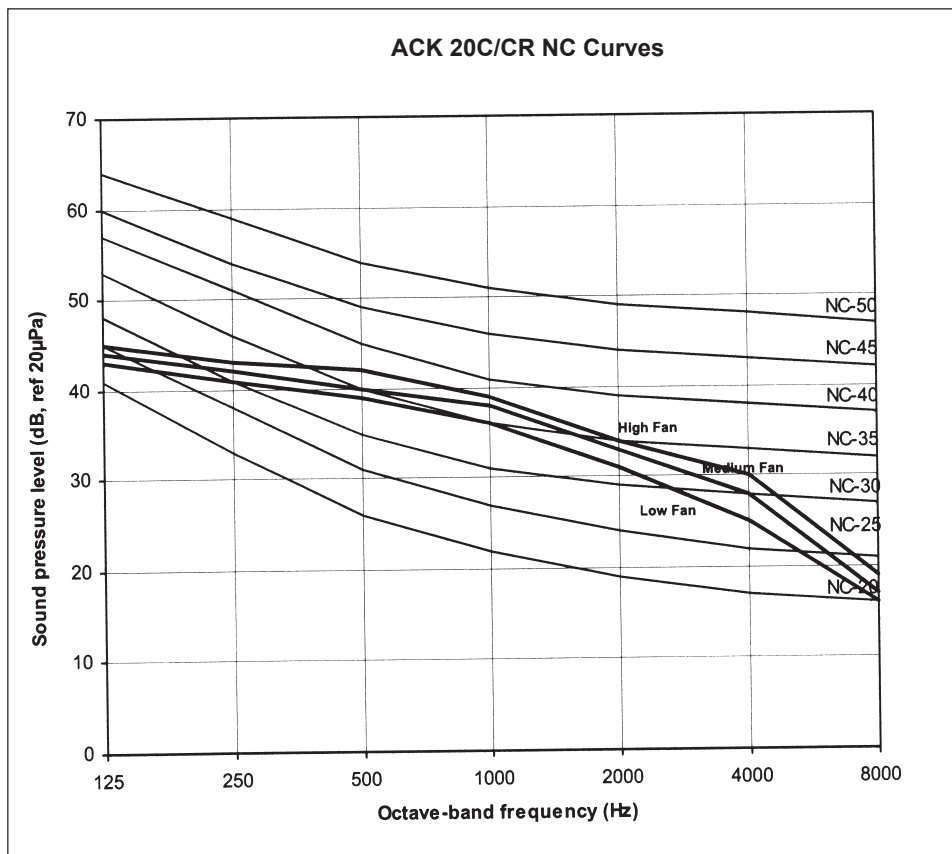
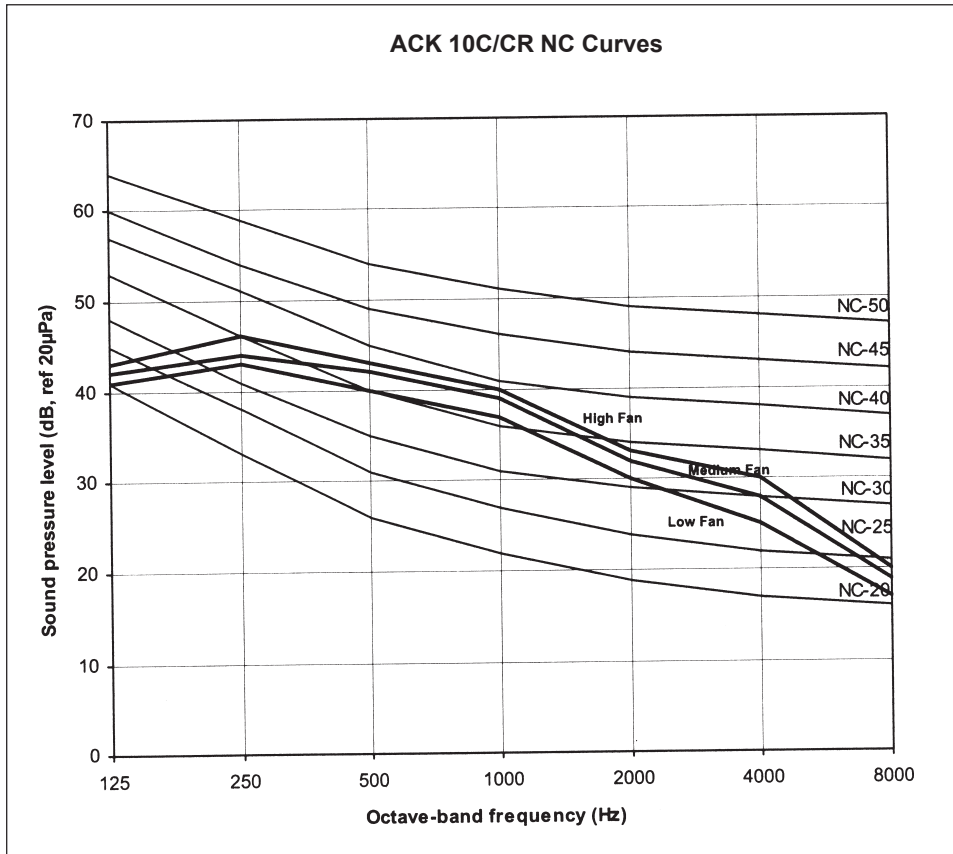
ACK 20B/BR NC Curves



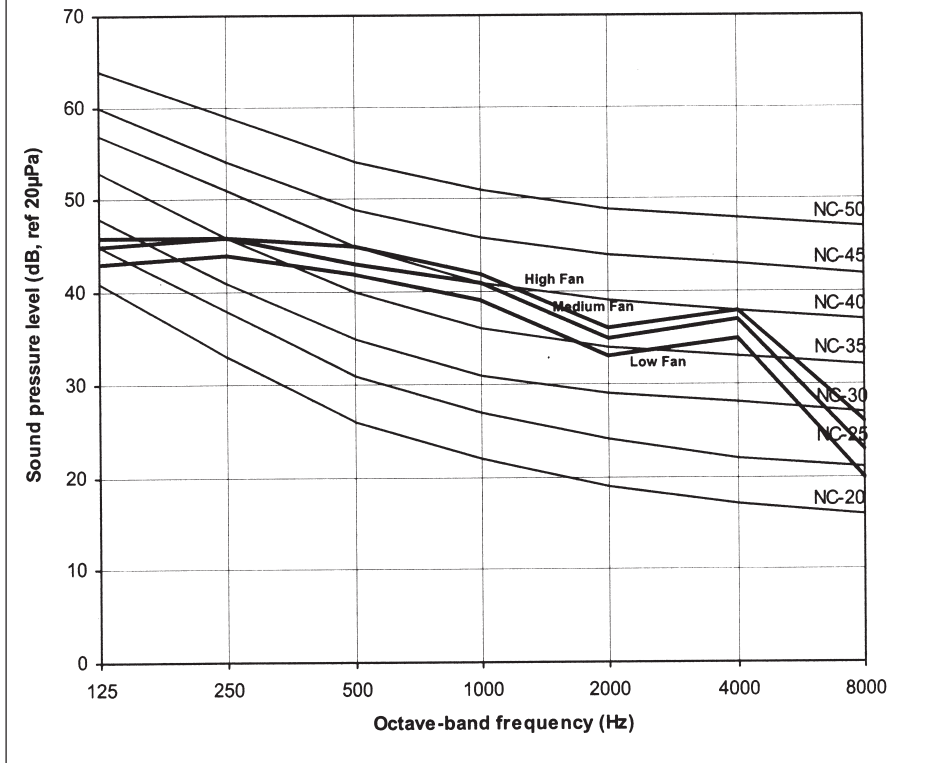
ACK 25B/BR NC Curves



Measured in anechoic room at 1.4m below the fascia



ACK 20C/CR NC Curves



5. ENGINEERING AND PHYSICAL DATA

GENERAL DATA - COOLING ONLY (R22) - ACK - A SERIES

		INDOOR UNIT		ACK 20A		
		OUTDOOR UNIT		ALC 18C	ALC 20C	
NOMINAL CAPACITY		Btu/h		18000	20000	
		W		5280	5860	
NOMINAL TOTAL INPUT POWER		W		1900	1931	
NOMINAL RUNNING CURRENT		A		8.6	8.2	
POWER SOURCE		V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER		W/W		2.78	3.03	
REFRIGERANT TYPE		R22				
REFRIGERANT CONTROL (EXPANSION DEVICE)		OUTDOOR CAP. TUBE				
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION		4 WAY AUTOMATIC LOUVER (UP & DOWN) WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
		AIR FLOW	HIGH	l/s / CFM	349 / 740	
	MEDIUM		l/s / CFM	297 / 630		
	LOW		l/s / CFM	283 / 600		
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	42 / 39 / 37		
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)		
		WIDTH	mm/in	820 (930) / 32.2 (36.6)		
		DEPTH	mm/in	820 (930) / 32.2 (36.6)		
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)		
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)		
		DEPTH	mm/in	920 (1000) / 36.2 (39.4)		
	UNIT WEIGHT (UNIT + PANEL)		kg/lb	31 + 4 / 68 + 9		
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4		
OUTDOOR UNIT	AIR FLOW		l/s / CFM	614 / 1300		
	SOUND PRESSURE LEVEL		dBA	51		
	UNIT DIMENSION	HEIGHT	mm/in	648 / 25.5		
		WIDTH	mm/in	855 / 33.7		
		DEPTH	mm/in	328 / 12.9		
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0		
		WIDTH	mm/in	990 / 39.0		
		DEPTH	mm/in	415 / 16.3		
	UNIT WEIGHT		kg/lb	58 / 128	59 / 130	
	PIPE CONNECTION	TYPE		FLARE VALVE		
SIZE		LIQUID	mm/in	6.4 / 1/4		
		GAS	mm/in	15.9 / 5/8		
REFRIGERANT CHARGE		kg/lb	0.85 / 1.87	1.35 / 2.98		

- 1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
 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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - COOLING ONLY (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 25A	
	OUTDOOR UNIT		ALC 25C	
NOMINAL CAPACITY	Btu/h		25000	
	W		7330	
NOMINAL TOTAL INPUT POWER	W		2602	
NOMINAL RUNNING CURRENT	A		13.5	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	
EER	W/W		2.82	
REFRIGERANT TYPE			R22	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH	l/s / CFM	368 / 780
		MEDIUM	l/s / CFM	311 / 660
		LOW	l/s / CFM	283 / 600
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0
	SOUND PRESSURE LEVEL (H/M/L)		dBA	45 / 42 / 40
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)
		WIDTH	mm/in	820 (930) / 32.2 (36.6)
		DEPTH	mm/in	820 (930) / 32.2 (36.6)
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)
		DEPTH	mm/in	920 (1000) / 36.2 (39.4)
	UNIT WEIGHT (UNIT + PANEL)		kg/lb	32 + 4 / 71 + 9
CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4	
OUTDOOR UNIT	AIR FLOW		CFM / L/s	755 / 1600
	SOUND PRESSURE LEVEL		dBA	52
	UNIT DIMENSION	HEIGHT	mm/in	750 / 29.5
		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	62 / 137
	PIPE CONNECTION	TYPE		FLARE VALVE
		SIZE	LIQUID	mm/in
GAS			mm/in	15.9 / 5/8
REFRIGERANT CHARGE		kg/lb	1.50 / 3.31	

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - COOLING ONLY (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 30A		
	OUTDOOR UNIT		ALC 28C	ALC 30C	
NOMINAL CAPACITY - 1Ø <3Ø>	Btu/h		28000	29000 / <29000>	
	W		8210	8790 / <8790>	
NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>	W		2954	2710 / <3460>	
NOMINAL RUNNING CURRENT - 1Ø <3Ø>	A		14.8	13.1 / <5.8>	
POWER SOURCE - 1Ø <3Ø>	V/Ph/Hz		220 - 240 / 1 / 50 <380 - 415 / 3 / 50>		
EER - 1Ø <3Ø>	W/W		2.78	3.24 / <2.54>	
REFRIGERANT TYPE			R22		
REFRIGERANT CONTROL (EXPANSION DEVICE)			INDOOR CAP. TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION		4 WAY AUTOMATIC LOUVER (UP & DOWN) WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
		AIR FLOW	HIGH	l/s / CFM	415 / 880
	MEDIUM		l/s / CFM	349 / 740	
	LOW		l/s / CFM	321 / 680	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	49 / 45 / 43	
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)	
		WIDTH	mm/in	820 (930) / 32.2 (36.6)	
		DEPTH	mm/in	820 (930) / 32.2 (36.6)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)	
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)	
		DEPTH	mm/in	920 (1000) / 36.2 (39.4)	
	UNIT WEIGHT (UNIT + PANEL)		kg/lb	35 + 4 / 77 + 9	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4	
OUTDOOR UNIT	AIR FLOW		l/s / CFM	741 / 1570	1605 / 3400
	SOUND PRESSURE LEVEL		dBA	54	58
	UNIT DIMENSION	HEIGHT	mm/in	750 / 29.5	850 / 33.5
		WIDTH	mm/in	855 / 33.7	1030 / 40.6
		DEPTH	mm/in	328 / 12.9	400 / 15.8
	PACKING DIMENSION	HEIGHT	mm/in	810 / 31.9	1000 / 39.4
		WIDTH	mm/in	990 / 39.0	1200 / 47.2
		DEPTH	mm/in	415 / 16.3	560 / 22.1
	UNIT WEIGHT		kg/lb	68 / 150	95 / 209
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	9.5 / 3/8
GAS			mm/in	15.9 / 5/8	15.9 / 5/8
REFRIGERANT CHARGE			kg/lb	2.40 / 5.29	1.70 / 3.75

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - COOLING ONLY (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 40A			
	OUTDOOR UNIT		ALC 35C	ALC 40C		
NOMINAL CAPACITY - 1Ø <3Ø>	Btu/h		34000	39500		
	W		9960	11570		
NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>	W		3120	3330 <3300>		
NOMINAL RUNNING CURRENT - 1Ø <3Ø>	A		15.1	17.6 <5.8>		
POWER SOURCE - 1Ø <3Ø>	V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50 <380 - 415 / 3 / 50>		
EER - 1Ø <3Ø>	WW		3.19	3.47 / <3.51>		
REFRIGERANT TYPE		R22				
REFRIGERANT CONTROL (EXPANSION DEVICE)		INDOOR CAP. TUBE				
INDOOR UNIT	CONTROL		AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
			OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
	AIR FLOW	HEIGHT	l/s / CFM	467 / 990		
		MEDIUM	l/s / CFM	406 / 860		
		LOW	l/s / CFM	359 / 760		
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	51 / 48 / 46		
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)		
		WIDTH	mm/in	820 (930) / 32.2 (36.6)		
		DEPTH	mm/in	820 (930) / 32.2 (36.6)		
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)		
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)		
		DEPTH	mm/in	920 (1000) / 36.2 (39.4)		
	UNIT WEIGHT (UNIT + PANEL)		kg/lb	38 + 4 / 84 + 9		
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4		
OUTDOOR UNIT	AIR FLOW		l/s / CFM	1605 / 3400		
	SOUND PRESSURE LEVEL		dBA	58	58	
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.5		
		WIDTH	mm/in	1030 / 40.6		
		DEPTH	mm/in	400 / 15.8		
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.4		
		WIDTH	mm/in	1200 / 47.2		
		DEPTH	mm/in	560 / 22.1		
	UNIT WEIGHT		kg/lb	95 / 209	100 / 221	
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	9.5 / 3/8	
			GAS	mm/in	19.1 / 3/4	
REFRIGERANT CHARGE		kg/lb	2.00 / 4.41	2.60 / 5.73		

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - COOLING ONLY (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 50A	
	OUTDOOR UNIT		ALC 50C	
NOMINAL CAPACITY	Btu/h		48500	
	W		14200	
NOMINAL TOTAL INPUT POWER	W		4440	
NOMINAL RUNNING CURRENT	A		8.1	
POWER SOURCE	V/Ph/Hz		380 - 415 / 3 / 50	
EER	W/W		3.20	
REFRIGERANT TYPE			R22	
REFRIGERANT CONTROL (EXPANSION DEVICE)			INDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH	l/s / CFM	491 / 1040
		MEDIUM	l/s / CFM	448 / 950
		LOW	l/s / CFM	411 / 870
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0
	SOUND PRESSURE LEVEL (H/M/L)		dBa	53 / 52 / 50
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)
		WIDTH	mm/in	820 (930) / 32.2 (36.6)
		DEPTH	mm/in	820 (930) / 32.2 (36.6)
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)
		DEPTH	mm/in	920 (1000) / 36.2 (39.4)
	UNIT WEIGHT (UNIT + PANEL)		kg/lb	40 + 4 / 88 + 9
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4
OUTDOOR UNIT	AIR FLOW		l/s / CFM	1605 / 3400
	SOUND PRESSURE LEVEL		dBa	58
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.5
		WIDTH	mm/in	1030 / 40.6
		DEPTH	mm/in	400 / 15.8
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.4
		WIDTH	mm/in	1200 / 47.2
		DEPTH	mm/in	560 / 22.1
	UNIT WEIGHT		kg/lb	105 / 232
	PIPE CONNECTION	TYPE		FLARE VALVE
		SIZE	LIQUID	mm/in
GAS			mm/in	19.1 / 3/4
REFRIGERANT CHARGE		kg/lb	2.60 / 5.73	

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - HEAT PUMP (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 20AR		
	OUTDOOR UNIT		ALC 18CR	ALC 20CR	
NOMINAL COOLING CAPACITY	Btu/h		18000	20000	
	W		5280	5860	
NOMINAL HEATING CAPACITY	Btu/h		18500	20000	
	W		5420	5860	
NOMINAL TOTAL INPUT POWER (COOLING)	W		1900	1931	
NOMINAL TOTAL INPUT POWER (HEATING)	W		1730	1943	
NOMINAL RUNNING CURRENT (COOLING)	A		8.6	8.2	
NOMINAL RUNNING CURRENT (HEATING)	A		7.7	8.3	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W		2.78	3.03	
COP	W/W		3.13	3.02	
REFRIGERANT TYPE			R22		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
	AIR FLOW	HIGH	CFM / L/s	349 / 740	
		MEDIUM	CFM / L/s	297 / 630	
		LOW	CFM / L/s	283 / 600	
	EXTERNAL STATIC PRESSURE (H/M/L)		mmAq	0	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	42 / 39 / 37	
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)	
		WIDTH	mm/in	820 (930) / 32.2 (36.6)	
		DEPTH	mm/in	820 (930) / 32.2 (36.6)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)	
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)	
		DEPTH	mm/in	920 (1000) / 36.2 (39.4)	
	UNIT WEIGHT		kg/lb	31 + 4 / 68 + 9	
CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4		
OUTDOOR UNIT	AIR FLOW		CFM / L/s	614 / 1300	
	SOUND PRESSURE LEVEL		dBA	51	
	UNIT DIMENSION	HEIGHT	mm/in	648 / 25.5	
		WIDTH	mm/in	855 / 33.7	
		DEPTH	mm/in	328 / 12.9	
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0	
		WIDTH	mm/in	990 / 39.0	
		DEPTH	mm/in	415 / 16.3	
	UNIT WEIGHT		kg/lb	58 / 128	59 / 130
	PIPE CONNECTION	TYPE		FLARE VALVE	
SIZE		LIQUID	mm/in	6.4 / 1/4	
		GAS	mm/in	15.9 / 5/8	
REFRIGERANT CHARGE		kg/lb	0.85 / 1.87	1.35 / 2.98	

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - HEAT PUMP (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 25AR	
	OUTDOOR UNIT		ALC 25CR	
NOMINAL COOLING CAPACITY	Btu/h		25000	
	W		7330	
NOMINAL HEATING CAPACITY	Btu/h		25000	
	W		7330	
NOMINAL TOTAL INPUT POWER (COOLING)	W		2602	
NOMINAL TOTAL INPUT POWER (HEATING)	W		2522	
NOMINAL RUNNING CURRENT (COOLING)	A		11.6	
NOMINAL RUNNING CURRENT (HEATING)	A		11.4	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	
EER	W/W		2.82	
COP	W/W		2.91	
REFRIGERANT TYPE			R22	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH	CFM / L/s	368 / 780
		MEDIUM	CFM / L/s	311 / 660
		LOW	CFM / L/s	283 / 600
	EXTERNAL STATIC PRESSURE (H/M/L)		mmAq	0
	SOUND PRESSURE LEVEL (H/M/L)		dBA	45 / 42 / 40
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)
		WIDTH	mm/in	820 (930) / 32.2 (36.6)
		DEPTH	mm/in	820 (930) / 32.2 (36.6)
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)
		DEPTH	mm/in	920 (1000) / 36.2 (39.4)
	UNIT WEIGHT		kg/lb	32 + 4 / 71 + 9
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4
OUTDOOR UNIT	AIR FLOW		CFM / L/s	755 / 1600
	SOUND PRESSURE LEVEL		dBA	52
	UNIT DIMENSION	HEIGHT	mm/in	750 / 29.5
		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	62 / 137
	PIPE CONNECTION	TYPE		FLARE VALVE
		SIZE	LIQUID	mm/in
GAS			mm/in	15.9 / 5/8
REFRIGERANT CHARGE		kg/lb	1.50 / 3.31	

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 - a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
 - b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
- 4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - HEAT PUMP (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 30AR		
	OUTDOOR UNIT		ALC 28CR	ALC 30CR	
NOMINAL COOLING CAPACITY	Btu/h		28000	30000	
	W		8210	8792	
NOMINAL HEATING CAPACITY	Btu/h		28000	31000	
	W		8210	9085	
NOMINAL TOTAL INPUT POWER (COOLING) - 1Ø <3Ø>	W		2954	2580 <2533>	
NOMINAL TOTAL INPUT POWER (HEATING) - 1Ø <3Ø>	W		2668	2480 <2430>	
NOMINAL RUNNING CURRENT (COOLING) - 1Ø <3Ø>	A		14.8	11.7 <6.55>	
NOMINAL RUNNING CURRENT (HEATING) - 1Ø <3Ø>	A		13.7	11.2 <6.35>	
POWER SOURCE - 1Ø <3Ø>	V/Ph/Hz		220 - 240 / 1 / 50 <380 - 415 / 3 / 50>		
EER - 1Ø / <3Ø>	W/W		2.78	3.14 / <3.47>	
COP - 1Ø / <3Ø>	W/W		3.08	3.66 / <3.74>	
REFRIGERANT TYPE			R22	R22	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE + TXV	
INDOOR UNIT	CONTROL		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
	AIR DISCHARGE OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
	AIR FLOW	HIGH	CFM / L/s	415 / 880	
		MEDIUM	CFM / L/s	349 / 740	
		LOW	CFM / L/s	321 / 680	
	EXTERNAL STATIC PRESSURE (H/M/L)		mmAq	0	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	49 / 45 / 43	
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)	
		WIDTH	mm/in	820 (930) / 32.2 (36.6)	
		DEPTH	mm/in	820 (930) / 32.2 (36.6)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)	
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)	
		DEPTH	mm/in	920 (1000) / 36.2 (39.4)	
UNIT WEIGHT		kg/lb	35 + 4 / 77.2 + 8.8		
CONDENSATE DRAIN SIZE		mm/in	19.05 / 3/4		
OUTDOOR UNIT	AIR FLOW		CFM / L/s	741 / 1570	1605 / 3400
	SOUND PRESSURE LEVEL		dBA	54	58
	UNIT DIMENSION	HEIGHT	mm/in	750 / 29.5	850 / 33.46
		WIDTH	mm/in	855 / 33.7	1030 / 40.55
		DEPTH	mm/in	328 / 12.9	400 / 15.75
	PACKING DIMENSION	HEIGHT	mm/in	810 / 31.9	1000 / 39.37
		WIDTH	mm/in	990 / 39.0	1200 / 47.24
		DEPTH	mm/in	415 / 16.3	560 / 22.05
	UNIT WEIGHT		kg/lb	68 / 150	95 / 209
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	9.5 / 3/8
GAS			mm/in	15.9 / 5/8	15.9 / 5/8
REFRIGERANT CHARGE		kg/lb	2.40 / 15.29	2.15 / 4.74	

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 - a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
 - b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
- 4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - HEAT PUMP (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 40AR		
	OUTDOOR UNIT		ALC 35CR	ALC 40CR	
NOMINAL COOLING CAPACITY - 1Ø <3Ø>	Btu/h		34000	39500 / <39500>	
	W		9960	11570 / <11570>	
NOMINAL HEATING CAPACITY - 1Ø <3Ø>	Btu/h		34000	41000 / <41000>	
	W		9960	12020 / <12020>	
NOMINAL TOTAL INPUT POWER (COOLING) - 1Ø <3Ø>	W		3039	3506 / <3476>	
NOMINAL TOTAL INPUT POWER (HEATING) - 1Ø <3Ø>	W		2980	3346 / <3316>	
NOMINAL RUNNING CURRENT (COOLING) - 1Ø <3Ø>	A		15.2	17.0 / <6.4>	
NOMINAL RUNNING CURRENT (HEATING) - 1Ø <3Ø>	A		15.1	16.2 / <5.6>	
POWER SOURCE - 1Ø <3Ø>	V/Ph/Hz		220 - 240 / 1 / 50 <380 - 415 / 3 / 50>		
EER - 1Ø / <3Ø>	W/W		3.28	3.30 / <3.33>	
COP - 1Ø / <3Ø>	W/W		3.34	3.59 / <3.63>	
REFRIGERANT TYPE			R22		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE + TXV		
INDOOR UNIT	CONTROL		AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)
			OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH	CFM / L/s	467 / 990	
		MEDIUM	CFM / L/s	406 / 860	
		LOW	CFM / L/s	359 / 760	
	EXTERNAL STATIC PRESSURE (H/M/L)		mmAq	0	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	51 / 48 / 46	
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)	
		WIDTH	mm/in	820 (930) / 32.2 (36.6)	
		DEPTH	mm/in	820 (930) / 32.2 (36.6)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)	
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)	
		DEPTH	mm/in	920 (1000) / 36.2 (39.4)	
	UNIT WEIGHT		kg/lb	38 + 4 / 84 + 9	
CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4		
OUTDOOR UNIT	AIR FLOW		CFM / L/s	1605 / 3400	
	SOUND PRESSURE LEVEL		dBA	58	58
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.5	
		WIDTH	mm/in	1030 / 40.6	
		DEPTH	mm/in	400 / 15.8	
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.4	
		WIDTH	mm/in	1200 / 47.2	
		DEPTH	mm/in	560 / 22.1	
	UNIT WEIGHT		kg/lb	95 / 209	100 / 221
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	9.5 / 3/8
GAS			mm/in	19.1 / 3/4	
REFRIGERANT CHARGE		kg/lb	2.60 / 5.73	2.60 / 5.73	

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a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - HEAT PUMP (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 50AR		
	OUTDOOR UNIT		ALC 50CR		
NOMINAL COOLING CAPACITY	Btu/h		48000		
	W		14070		
NOMINAL HEATING CAPACITY	Btu/h		50000		
	W		14650		
NOMINAL TOTAL INPUT POWER (COOLING)	W		4450		
NOMINAL TOTAL INPUT POWER (HEATING)	W		4170		
NOMINAL RUNNING CURRENT (COOLING)	A		8.3		
NOMINAL RUNNING CURRENT (HEATING)	A		7.9		
POWER SOURCE	V/Ph/Hz		380 - 415 / 3 / 50		
EER	W/W		3.16		
COP	W/W		3.51		
REFRIGERANT TYPE			R22		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE + TXV		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
	AIR FLOW	HIGH	CFM / L/s	491 / 1040	
		MEDIUM	CFM / L/s	448 / 950	
		LOW	CFM / L/s	411 / 870	
	EXTERNAL STATIC PRESSURE (H/M/L)	mmAq	0		
	SOUND PRESSURE LEVEL (H/M/L)	dBA	53 / 52 / 50		
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)	
		WIDTH	mm/in	820 (930) / 32.2 (36.6)	
		DEPTH	mm/in	820 (930) / 32.2 (36.6)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)	
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)	
		DEPTH	mm/in	920 (1000) / 36.2 (39.4)	
	UNIT WEIGHT	kg/lb	40 + 4 / 88 + 9		
CONDENSATE DRAIN SIZE	mm/in	19.1 / 3/4			
OUTDOOR UNIT	AIR FLOW	CFM / L/s	1605 / 3400		
	SOUND PRESSURE LEVEL	dBA	58		
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.5	
		WIDTH	mm/in	1030 / 40.6	
		DEPTH	mm/in	400 / 15.8	
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.4	
		WIDTH	mm/in	1200 / 47.2	
		DEPTH	mm/in	560 / 22.1	
	UNIT WEIGHT	kg/lb	105 / 232		
	PIPE CONNECTION	TYPE		FLARE VALVE	
SIZE		LIQUID	mm/in	9.5 / 3/8	
		GAS	mm/in	19.1 / 3/4	
REFRIGERANT CHARGE	kg/lb	2.75 / 6.06			

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a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - COOLING ONLY (R22) - ACK - B SERIES

MODEL	INDOOR UNIT		ACK 15B	ACK 20B	
	OUTDOOR UNIT		ALC 15C	ALC 20C	
NOMINAL CAPACITY	Btu/h		12500	19000	
	W		3660	5570	
NOMINAL TOTAL INPUT POWER	W		1194	1828	
NOMINAL RUNNING CURRENT	A		5.4	8.0	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W		3.07	3.05	
REFRIGERANT TYPE			R22		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
	AIR FLOW	HEIGHT	l/s / CFM	194 / 410	203 / 430
		MEDIUM	l/s / CFM	165 / 350	175 / 370
		LOW	l/s / CFM	142 / 300	146 / 310
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0	0
	SOUND PRESSURE LEVEL (H/M/L)		dBA	36 / 32 / 28	40 / 36 / 30
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	293 (345) / 11.5 (13.6)	
		WIDTH	mm/in	650 (727) / 25.6 (28.6)	
		DEPTH	mm/in	650 (727) / 25.6 (28.6)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	360 (110) / 14.2 (4.3)	
		WIDTH	mm/in	725 (840) / 28.5 (33.1)	
		DEPTH	mm/in	725 (840) / 28.5 (33.1)	
	UNIT WEIGHT (UNIT + PANEL)		kg/lb	30 + 3 / 66 + 7	30 + 3 / 66 + 7
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4	
OUTDOOR UNIT	AIR FLOW		l/s / CFM	453 / 960	614 / 1300
	SOUND PRESSURE LEVEL		dBA	49	51
	UNIT DIMENSION	HEIGHT	mm/in	540 / 21.3	648 / 25.5
		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 / 71	59 / 130
	PIPE CONNECTION	TYPE		FLARE VALVE	
SIZE		LIQUID	mm/in	6.4 / 1/4	6.35 / 1/4
		GAS	mm/in	12.7 / 1/2	15.88 / 5/8
REFRIGERANT CHARGE		kg/lb	0.60 / 1.32	1.35 / 2.98	

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - COOLING ONLY (R22) - ACK - B SERIES

MODEL	INDOOR UNIT		ACK 25B	
	OUTDOOR UNIT		ALC 25C	
NOMINAL CAPACITY	Btu/h		23500	
	W		6890	
NOMINAL TOTAL INPUT POWER	W		2530	
NOMINAL RUNNING CURRENT	A		11.3	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	
EER	W/W		2.72	
REFRIGERANT TYPE			R22	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH	l/s / CFM	236 / 500
		MEDIUM	l/s / CFM	212 / 450
		LOW	l/s / CFM	184 / 390
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0
	SOUND PRESSURE LEVEL (H/M/L)		dBA	43 / 41 / 37
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	293 (345) / 11.5 (13.6)
		WIDTH	mm/in	650 (727) / 25.6 (28.6)
		DEPTH	mm/in	650 (727) / 25.6 (28.6)
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	360 (110) / 14.2 (4.3)
		WIDTH	mm/in	725 (840) / 28.5 (33.1)
		DEPTH	mm/in	725 (840) / 28.5 (33.1)
	UNIT WEIGHT (UNIT + PANEL)		kg/lb	31 + 3 / 68 + 7
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4
OUTDOOR UNIT	AIR FLOW		l/s / CFM	755 / 1600
	SOUND PRESSURE LEVEL		dBA	52
	UNIT DIMENSION	HEIGHT	mm/in	750 / 29.5
		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	62 / 137
	PIPE CONNECTION	TYPE		FLARE VALVE
SIZE		LIQUID	mm/in	9.5 / 3/8
		GAS	mm/in	15.9 / 5/8
REFRIGERANT CHARGE		kg/lb	1.50 / 3.31	

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - HEAT PUMP (R22) - ACK - B SERIES

MODEL	INDOOR UNIT		ACK 15BR	ACK 20BR	
	OUTDOOR UNIT		ALC 15CR	ALC 20CR	
NOMINAL COOLING CAPACITY	Btu/h		12500	19000	
	W		3660	5570	
NOMINAL HEATING CAPACITY	Btu/h		12000	19500	
	W		3520	5720	
NOMINAL TOTAL INPUT POWER (COOLING)	W		1194	1828	
NOMINAL TOTAL INPUT POWER (HEATING)	W		1034	1778	
NOMINAL RUNNING CURRENT (COOLING)	A		5.4	8.0	
NOMINAL RUNNING CURRENT (HEATING)	A		4.7	7.8	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W		3.07	3.05	
COP	W/W		3.40	3.22	
REFRIGERANT TYPE			R22		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
	AIR FLOW	HIGH	l/s / CFM	194 / 410	203 / 430
		MEDIUM	l/s / CFM	165 / 350	175 / 370
		LOW	l/s / CFM	142 / 300	146 / 310
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0	0
	SOUND PRESSURE LEVEL (H/M/L)		dBA	36 / 32 / 28	40 / 36 / 30
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	293 (345) / 11.5 (13.6)	
		WIDTH	mm/in	650 (727) / 25.6 (28.6)	
		DEPTH	mm/in	650 (727) / 25.6 (28.6)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	360 (110) / 14.2 (4.3)	
		WIDTH	mm/in	725 (840) / 28.5 (33.1)	
		DEPTH	mm/in	725 (840) / 28.5 (33.1)	
UNIT WEIGHT (UNIT + PANEL)		kg/lb	30 + 3 / 66 + 7	30 + 3 / 66 + 7	
CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4		
OUTDOOR UNIT	AIR FLOW		l/s / CFM	453 / 960	614 / 1300
	SOUND PRESSURE LEVEL		dBA	49	51
	UNIT DIMENSION	HEIGHT	mm/in	540 / 21.3	648 / 25.5
		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 / 71	59 / 130
	PIPE CONNECTION	TYPE		FLARE VALVE	
SIZE		LIQUID	mm/in	6.4 / 1/4	6.35 / 1/4
		GAS	mm/in	12.7 / 1/2	15.88 / 5/8
REFRIGERANT CHARGE		kg/lb	0.60 / 1.32	1.35 / 2.98	

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - HEAT PUMP(R22) - ACK - B SERIES

MODEL	INDOOR UNIT		ACK 25BR	
	OUTDOOR UNIT		ALC 25CR	
NOMINAL COOLING CAPACITY	Btu/h		23500	
	W		6890	
NOMINAL HEATING CAPACITY	Btu/h		24000	
	W		7030	
NOMINAL TOTAL INPUT POWER (COOLING)	W		2530	
NOMINAL TOTAL INPUT POWER (HEATING)	W		2450	
NOMINAL RUNNING CURRENT (COOLING)	A		11.3	
NOMINAL RUNNING CURRENT (HEATING)	A		11.1	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	
EER	W/W		2.72	
COP	W/W		2.87	
REFRIGERANT TYPE			R22	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH	l/s / CFM	236 / 500
		MEDIUM	l/s / CFM	212 / 450
		LOW	l/s / CFM	184 / 390
	EXTERNAL STATIC PRESSURE (H/M/L)	Pa / in.wg.		0
	SOUND PRESSURE LEVEL (H/M/L)	dBA		43 / 41 / 37
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	293 (345) / 11.5 (13.6)
		WIDTH	mm/in	650 (727) / 25.6 (28.6)
		DEPTH	mm/in	650 (727) / 25.6 (28.6)
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	360 (110) / 14.2 (4.3)
		WIDTH	mm/in	725 (840) / 28.5 (33.1)
		DEPTH	mm/in	725 (840) / 28.5 (33.1)
	UNIT WEIGHT (UNIT + PANEL)	kg/lb		31 + 3 / 68 + 7
	CONDENSATE DRAIN SIZE	mm/in		19.1 / 3/4
OUTDOOR UNIT	AIR FLOW	l/s / CFM		755 / 1600
	SOUND PRESSURE LEVEL	dBA		52
	UNIT DIMENSION	HEIGHT	mm/in	750 / 29.5
		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		62 / 137
	PIPE CONNECTION	TYPE		FLARE VALVE
SIZE		LIQUID	mm/in	9.5 / 3/8
		GAS	mm/in	15.9 / 5/8
REFRIGERANT CHARGE	kg/lb		1.50 / 3.31	

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - COOLING ONLY (R22) - ACK - C SERIES

MODEL	INDOOR UNIT		ACK 10C	ACK 15C	
	OUTDOOR UNIT		ALC 10C	ALC 15C	
NOMINAL CAPACITY	Btu/h		9500	12500	
	W		2780	3660	
NOMINAL TOTAL INPUT POWER	W		889	1231	
NOMINAL RUNNING CURRENT	A		4.0	5.6	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W		3.13	2.97	
REFRIGERANT TYPE			R22		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
	AIR FLOW	HIGH	l/s / CFM	194 / 410	194 / 410
		MEDIUM	l/s / CFM	184 / 390	184 / 390
		LOW	l/s / CFM	175 / 370	170 / 360
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0	0
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	44 / 42 / 41
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	250 (295) / 9.8 (11.6)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	317 (127) / 12.5 (5)	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)	
	UNIT WEIGHT (UNIT + PANEL)		kg/lb	22 + 2 / 49 + 4	23 + 2 / 51 + 4
CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4		
OUTDOOR UNIT	AIR FLOW		l/s / CFM	453 / 960	
	SOUND PRESSURE LEVEL		dBA	49	
	UNIT DIMENSION	HEIGHT	mm/in	540 / 21.3	
		WIDTH	mm/in	700 / 27.6	
		DEPTH	mm/in	250 / 9.8	
	PACKING DIMENSION	HEIGHT	mm/in	620 / 24.4	
		WIDTH	mm/in	810 / 31.9	
		DEPTH	mm/in	330 / 13.0	
	UNIT WEIGHT		kg/lb	30 / 66	32 / 71
	PIPE CONNECTION	TYPE		FLARE VALVE	
SIZE		LIQUID	mm/in	6.4 / 1/4	6.4 / 1/4
		GAS	mm/in	9.5 / 3/8	12.7 / 1/2
REFRIGERANT CHARGE		kg/lb	0.63 / 1.39	0.60 / 1.32	

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW FASCIA.

GENERAL DATA - COOLING ONLY (R22) - ACK - C SERIES

MODEL	INDOOR UNIT		ACK 20C		
	OUTDOOR UNIT		ALC 18C	ALC 20C	
NOMINAL CAPACITY	Btu/h		18000	19000	
	W		5280	5570	
NOMINAL TOTAL INPUT POWER	W		1840	1832	
NOMINAL RUNNING CURRENT	A		8.2	8.1	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W		2.87	3.04	
REFRIGERANT TYPE			R22		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
	AIR FLOW	HIGH	l/s / CFM	212 / 450	
		MEDIUM	l/s / CFM	203 / 430	
		LOW	l/s / CFM	194 / 410	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	47 / 46 / 44	
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	250 (295) / 9.8 (11.6)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	317 (127) / 12.5 (5)	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)	
	UNIT WEIGHT (UNIT + PANEL)		kg/lb	23 + 2 / 51 + 4	
CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4		
OUTDOOR UNIT	AIR FLOW		l/s / CFM	614 / 1300	
	SOUND PRESSURE LEVEL		dBA	51	
	UNIT DIMENSION	HEIGHT	mm/in	648 / 25.5	
		WIDTH	mm/in	855 / 33.7	
		DEPTH	mm/in	328 / 12.9	
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0	
		WIDTH	mm/in	990 / 39.0	
		DEPTH	mm/in	415 / 16.3	
	UNIT WEIGHT		kg/lb	58 / 128	59 / 130
	PIPE CONNECTION	TYPE		FLARE VALVE	
SIZE		LIQUID	mm/in	6.4 / 1/4	
		GAS	mm/in	15.9 / 5/8	
REFRIGERANT CHARGE		kg/lb	0.85 / 1.87	1.35 / 2.98	

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - HEAT PUMP (R22) - ACK - C SERIES

MODEL	INDOOR UNIT		ACK 10CR	ACK 15CR	
	OUTDOOR UNIT		ALC 10CR	ALC 15CR	
NOMINAL COOLING CAPACITY	Btu/h		9500	12500	
	W		2780	3660	
NOMINAL HEATING CAPACITY	Btu/h		9500	12500	
	W		2780	3660	
NOMINAL TOTAL INPUT POWER (COOLING)	W		889	1206	
NOMINAL TOTAL INPUT POWER (HEATING)	W		779	1056	
NOMINAL RUNNING CURRENT (COOLING)	A		3.8	5.3	
NOMINAL RUNNING CURRENT (HEATING)	A		3.4	4.7	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W		3.13	3.03	
COP	W/W		3.57	3.47	
REFRIGERANT TYPE			R22		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE		
INDOOR UNIT	CONTROL		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
	AIR DISCHARGE OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
	AIR FLOW	HIGH	l/s / CFM	194 / 410	194 / 410
		MEDIUM	l/s / CFM	184 / 390	184 / 390
		LOW	l/s / CFM	175 / 370	170 / 360
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0	0
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	44 / 42 / 41
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	250 (295) / 9.8 (11.6)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	317 (127) / 12.5 (5)	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)	
UNIT WEIGHT (UNIT + PANEL)		kg/lb	22 + 2 / 49 + 4	23 + 2 / 51 + 4	
CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4		
OUTDOOR UNIT	AIR FLOW		l/s / CFM	453 / 960	
	SOUND PRESSURE LEVEL		dBA	49	
	UNIT DIMENSION	HEIGHT	mm/in	540 / 21.3	
		WIDTH	mm/in	700 / 27.6	
		DEPTH	mm/in	250 / 9.8	
	PACKING DIMENSION	HEIGHT	mm/in	620 / 24.4	
		WIDTH	mm/in	810 / 31.9	
		DEPTH	mm/in	330 / 13.0	
	UNIT WEIGHT		kg/lb	30 / 66	32 / 71
	PIPE CONNECTION	TYPE		FLARE VALVE	
SIZE		LIQUID	mm/in	6.4 / 1/4	
		GAS	mm/in	9.5 / 3/8	
REFRIGERANT CHARGE		kg/lb	0.63 / 1.39	0.60 / 1.32	

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

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI 210/240-94.

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

a) COOLING - 26.7°C DB / 19.4°C WB INDOOR AND 35.0°C DB / 23.9°C WB OUTDOOR

b) HEATING - 21.1°C DB / 15.6°C WB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - HEAT PUMP (R22) - ACK - C SERIES

MODEL	INDOOR UNIT		ACK 20CR			
	OUTDOOR UNIT		ALC 18CR	ALC 20CR		
NOMINAL COOLING CAPACITY	Btu/h		18000	19000		
	W		5280	5570		
NOMINAL HEATING CAPACITY	Btu/h		18400	19500		
	W		5390	5720		
NOMINAL TOTAL INPUT POWER (COOLING)	W		1840	1832		
NOMINAL TOTAL INPUT POWER (HEATING)	W		1680	1782		
NOMINAL RUNNING CURRENT (COOLING)	A		8.2	8.1		
NOMINAL RUNNING CURRENT (HEATING)	A		7.5	7.9		
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50		
EER	W/W		2.87	3.04		
COP	W/W		3.21	3.21		
REFRIGERANT TYPE			R22			
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE			
INDOOR UNIT	CONTROL		AIR DISCHARGE OPERATION		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
					WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
	AIR FLOW	HIGH		l/s / CFM	212 / 450	
		MEDIUM		l/s / CFM	203 / 430	
		LOW		l/s / CFM	194 / 410	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	47 / 46 / 44		
	UNIT DIMENSION () - WITH PANEL	HEIGHT		mm/in	250 (295) / 9.8 (11.6)	
		WIDTH		mm/in	570 (640) / 22.4 (25.2)	
		DEPTH		mm/in	570 (640) / 22.4 (25.2)	
	PACKING DIMENSION () - PANEL	HEIGHT		mm/in	317 (127) / 12.5 (5)	
		WIDTH		mm/in	630 (700) / 24.8 (27.6)	
		DEPTH		mm/in	630 (700) / 24.8 (27.6)	
	UNIT WEIGHT (UNIT + PANEL)		kg/lb	23 + 2 / 51 + 4		
CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4			
OUTDOOR UNIT	AIR FLOW		l/s / CFM	614 / 1300		
	SOUND PRESSURE LEVEL		dBA	51		
	UNIT DIMENSION	HEIGHT		mm/in	648 / 25.5	
		WIDTH		mm/in	855 / 33.7	
		DEPTH		mm/in	328 / 12.9	
	PACKING DIMENSION	HEIGHT		mm/in	710 / 28.0	
		WIDTH		mm/in	990 / 39.0	
		DEPTH		mm/in	415 / 16.3	
	UNIT WEIGHT		kg/lb	58 / 128	59 / 130	
	PIPE CONNECTION	SIZE		TYPE		FLARE VALVE
LIQUID				mm/in	6.4 / 1/4	
GAS		mm/in	15.9 / 5/8			
REFRIGERANT CHARGE			kg/lb	0.85 / 1.87	1.35 / 2.98	

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - COOLING ONLY (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 20A	A5CK 25A		
	OUTDOOR UNIT		A5LC 20C	A5LC 25C		
NOMINAL CAPACITY - 1Ø / <3Ø>	Btu/h		18500 / <18500>	20000 / <22860>		
	W		5420 / <5420>	5860 / <6700>		
NOMINAL TOTAL INPUT POWER - 1Ø / <3Ø>	W		1703 / <1778>	2003 / <2260>		
NOMINAL RUNNING CURRENT - 1Ø / <3Ø>	A		7.5 / <3.4>	8.9 / <4.2>		
POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50		
EER - 1Ø / <3Ø>	W/W		3.18 / <3.05>	2.93 / <2.96>		
REFRIGERANT TYPE			R410A			
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE			
INDOOR UNIT	CONTROL		AIR DISCHARGE			
			OPERATION			
	AIR FLOW		HIGH	l/s / CFM	349 / 740	368 / 780
			MEDIUM	l/s / CFM	297 / 630	311 / 660
			LOW	l/s / CFM	283 / 600	283 / 600
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	0	0	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	42 / 39 / 37	45 / 42 / 40	
	UNIT DIMENSION () - WITH PANEL		HEIGHT	mm/in	335 (363) / 13.2 (14.3)	
			WIDTH	mm/in	820 (930) / 32.2 (36.6)	
			DEPTH	mm/in	820 (930) / 32.2 (36.6)	
	PACKING DIMENSION () - PANEL		HEIGHT	mm/in	380 (130) / 15.0 (5.1)	
			WIDTH	mm/in	920 (1020) / 36.2 (40.2)	
			DEPTH	mm/in	920 (1000) / 32.2 (36.6)	
	WEIGHT (UNIT + PANEL)		kg/lb	31 + 4 / 68 + 9	32 + 4 / 71 + 9	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4		
OUTDOOR UNIT	AIR FLOW		l/s / CFM	614 / 1300	755 / 1600	
	SOUND PRESSURE LEVEL		dBA	52	52	
	UNIT DIMENSION		HEIGHT	mm/in	648 / 25.5	750 / 29.5
			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	62 / 137	
	PIPE CONNECTION		TYPE		FLARE VALVE	
			SIZE	LIQUID	mm/in	6.4 / 1/4
GAS				mm/in	12.7 / 1/2	15.9 / 5/8
REFRIGERANT CHARGE			kg/lb	1.30 / 2.87	1.65 / 3.64	

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

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

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

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW FASCIA.

GENERAL DATA - COOLING ONLY (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 30A		
	OUTDOOR UNIT		A5LC 28C	A5LC 35C	
NOMINAL CAPACITY - 1Ø / <3Ø>	Btu/h		28000 / <27000>	31000 / <31000>	
	W		8210 / <7910>	9090 / <9090>	
NOMINAL TOTAL INPUT POWER - 1Ø / <3Ø>	W		2680 / <2729>	2920 / <2820>	
NOMINAL RUNNING CURRENT - 1Ø / <3Ø>	A		12.7 / <4.7>	14.4 / <5.3>	
POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz		220 - 240 / 1 / 50 / <380 - 415 / 3 / 50>		
EER - 1Ø / <3Ø>	W/W		3.06 / <2.90>	3.11 / <3.22>	
REFRIGERANT TYPE			R410A	R410A	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE & TXV	
INDOOR UNIT	CONTROL		AIR DISCHARGE		
	OPERATION		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
	AIR FLOW	HIGH	l/s / CFM	415 / 880	
		MEDIUM	l/s / CFM	349 / 740	
		LOW	l/s / CFM	321 / 680	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	0	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	49 / 45 / 43	
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)	
		WIDTH	mm/in	820 (930) / 32.2 (36.6)	
		DEPTH	mm/in	820 (930) / 32.2 (36.6)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)	
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)	
		DEPTH	mm/in	920 (1000) / 32.2 (36.6)	
WEIGHT (UNIT + PANEL)		kg/lb	35 + 4 / 77 + 9		
CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4		
OUTDOOR UNIT	AIR FLOW		l/s / CFM	684 / 1450	1605 / 3400
	SOUND PRESSURE LEVEL		dBA	54	58
	UNIT DIMENSION	HEIGHT	mm/in	750 / 29.5	850 / 33.5
		WIDTH	mm/in	855 / 33.7	1030 / 40.6
		DEPTH	mm/in	328 / 12.9	400 / 15.8
	PACKING DIMENSION	HEIGHT	mm/in	810 / 31.9	1000 / 39.4
		WIDTH	mm/in	990 / 39.0	1200 / 47.2
		DEPTH	mm/in	415 / 16.3	560 / 22.1
	UNIT WEIGHT		kg/lb	68 / 150	95 / 209
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	9.5 / 3/8
GAS			mm/in	15.9 / 5/8	15.9 / 5/8
REFRIGERANT CHARGE		kg/lb	1.80 / 3.97	1.90 / 4.19	

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

2) ALL SPECIFICATIONS 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 1.5m BELOW FASCIA.

GENERAL DATA - COOLING ONLY (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 40A		
	OUTDOOR UNIT		A5LC 35C	A5LC 40C	
NOMINAL CAPACITY - 1Ø / <3Ø>	Btu/h		33500 / <33500>	39000 / <39000>	
	W		9820 / <9820>	11430 / <11430>	
NOMINAL TOTAL INPUT POWER - 1Ø / <3Ø>	W		2951 / <2880>	3834 / <3780>	
NOMINAL RUNNING CURRENT - 1Ø / <3Ø>	A		14.5 / <5.3>	18.1 / <6.9>	
POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz		220 - 240 / 1 / 50 / <380 - 415 / 3 / 50>		
EER - 1Ø / <3Ø>	W/W		3.33 / <3.41>	2.98 / <3.02>	
REFRIGERANT TYPE			R410A		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE & TXV		
INDOOR UNIT	CONTROL		AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)
			OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HEIGHT	l/s / CFM	467 / 990	
		MEDIUM	l/s / CFM	406 / 860	
		LOW	l/s / CFM	359 / 760	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	0	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	51 / 48 / 46	
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)	
		WIDTH	mm/in	820 (930) / 32.2 (36.6)	
		DEPTH	mm/in	820 (930) / 32.2 (36.6)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)	
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)	
		DEPTH	mm/in	920 (1000) / 32.2 (36.6)	
	WEIGHT (UNIT + PANEL)		kg/lb	38 + 4 / 83.8 + 8.8	
CONDENSATE DRAIN SIZE		mm/in	19.05 / 3/4		
AIR FLOW		l/s / CFM	1605 / 3400		
SOUND PRESSURE LEVEL		dBA	58		
UNIT DIMENSION	HEIGHT	mm/in	850 / 33.5		
	WIDTH	mm/in	1030 / 40.6		
	DEPTH	mm/in	400 / 15.8		
PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.4		
	WIDTH	mm/in	1200 / 47.2		
	DEPTH	mm/in	560 / 22.1		
UNIT WEIGHT		kg/lb	95 / 209	100 / 221	
PIPE CONNECTION		TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	9.5 / 3/8
			GAS	mm/in	15.8 / 5/8
REFRIGERANT CHARGE		kg/lb	1.90 / 4.19	1.95 / 4.30	

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2) ALL SPECIFICATIONS 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 1.5m BELOW FASCIA.

GENERAL DATA - COOLING ONLY (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 50A	
	OUTDOOR UNIT		A5LC 50C	
NOMINAL CAPACITY	Btu/h		48500	
	W		14210	
NOMINAL TOTAL INPUT POWER	W		5000	
NOMINAL RUNNING CURRENT	A		8.7	
POWER SOURCE	V/Ph/Hz		380 - 415 / 3 / 50	
EER	W/W		2.84	
REFRIGERANT TYPE			R410A	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE & TXV	
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH	l/s / CFM	491 / 1040
		MEDIUM	l/s / CFM	448 / 950
		LOW	l/s / CFM	411 / 870
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	0
	SOUND PRESSURE LEVEL (H/M/L)		dBA	53 / 52 / 50
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)
		WIDTH	mm/in	820 (930) / 32.2 (36.6)
		DEPTH	mm/in	820 (930) / 32.2 (36.6)
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)
		DEPTH	mm/in	920 (1000) / 32.2 (36.6)
	WEIGHT (UNIT + PANEL)		kg/lb	40 + 4 / 88 + 9
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4
OUTDOOR UNIT	AIR FLOW		l/s / CFM	2171 / 4600
	SOUND PRESSURE LEVEL		dBA	68
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.46
		WIDTH	mm/in	1030 / 40.55
		DEPTH	mm/in	400 / 15.75
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.37
		WIDTH	mm/in	1200 / 47.24
		DEPTH	mm/in	560 / 22.05
	UNIT WEIGHT		kg/lb	105 / 231.5
	PIPE CONNECTION	TYPE		FLARE VALVE
		SIZE	LIQUID	mm/in
GAS			mm/in	15.9 / 5/8
REFRIGERANT CHARGE		kg/lb	3.18 / 7.00	

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2) ALL SPECIFICATIONS 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 1.5m BELOW FASCIA.

GENERAL DATA - HEAT PUMP (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 20AR	A5CK 25AR		
	OUTDOOR UNIT		A5LC 20CR	A5LC 25CR		
NOMINAL COOLING CAPACITY - 1Ø / <3Ø>	Btu/h		18500 / <18500>	20000 / <22860>		
	W		5420 / <5420>	5860 / <6700>		
NOMINAL HEATING CAPACITY - 1Ø / <3Ø>	Btu/h		18500 / <18500>	21500 / 23200>		
	W		5420 / <5420>	6300 / 6800>		
NOMINAL TOTAL INPUT POWER (COOLING) - 1Ø / <3Ø>	W		1703 / <1778>	2003 / <2260>		
NOMINAL TOTAL INPUT POWER (HEATING) - 1Ø / <3Ø>	W		1563 / <1573>	2033 / <2153>		
NOMINAL RUNNING CURRENT (COOLING) - 1Ø / <3Ø>	A		7.5 / <3.4>	8.9 / <4.2>		
NOMINAL RUNNING CURRENT (HEATING) - 1Ø / <3Ø>	A		7.1 / <3.0>	9.2 / <4.0>		
POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz		220 - 240 / 1 / 50 / <380 - 415 / 3 / 50>			
EER - 1Ø / <3Ø>	W/W		3.18 / <3.05>	2.93 / <2.96>		
COP - 1Ø / <3Ø>	W/W		3.47 / <3.45>	3.10 / <3.16>		
REFRIGERANT TYPE			R410A			
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE			
INDOOR UNIT	CONTROL		AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
			OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
	AIR FLOW	HIGH		I/s / CFM	349 / 740	368 / 780
		MEDIUM		I/s / CFM	297 / 630	311 / 660
		LOW		I/s / CFM	283 / 600	283 / 600
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	0	0	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	42 / 39 / 37	45 / 42 / 40	
	UNIT DIMENSION () - WITH PANEL	HEIGHT		mm/in	335 (363) / 13.2 (14.3)	
		WIDTH		mm/in	820 (930) / 32.2 (36.6)	
		DEPTH		mm/in	820 (930) / 32.2 (36.6)	
	PACKING DIMENSION () - PANEL	HEIGHT		mm/in	380 (130) / 15.0 (5.1)	
		WIDTH		mm/in	920 (1020) / 36.2 (40.2)	
		DEPTH		mm/in	920 (1000) / 32.2 (36.6)	
	WEIGHT (UNIT + PANEL)		kg/lb	31 + 4 / 68 + 9	32 + 4 / 71 + 9	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4		
OUTDOOR UNIT	AIR FLOW		I/s / CFM	614 / 1300	755 / 1600	
	SOUND PRESSURE LEVEL		dBA	52	52	
	UNIT DIMENSION	HEIGHT		mm/in	648 / 25.5	750 / 29.5
		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	62 / 137	
	PIPE CONNECTION	TYPE		FLARE VALVE		
				SIZE	LIQUID	mm/in
GAS		mm/in	12.7 / 1/2		15.9 / 5/8	
REFRIGERANT CHARGE		kg/lb	1.30 / 2.87	1.65 / 3.64		

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - HEAT PUMP (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 30AR		
	OUTDOOR UNIT		A5LC 28CR	A5LC 35CR	
NOMINAL COOLING CAPACITY - 1Ø / <3Ø>	Btu/h		28000 / <27000>	31000 / <31000>	
	W		8210 / <7910>	9090 / <9090>	
NOMINAL HEATING CAPACITY - 1Ø / <3Ø>	Btu/h		28000 / <27000>	33000 / <33000>	
	W		8210 / <7910>	9670 / <9670>	
NOMINAL TOTAL INPUT POWER (COOLING) - 1Ø / <3Ø>	W		2680 / <2790>	2920 / <2820>	
NOMINAL TOTAL INPUT POWER (HEATING) - 1Ø / <3Ø>	W		2150 / <2381>	2780 / <2670>	
NOMINAL RUNNING CURRENT (COOLING) - 1Ø / <3Ø>	A		12.7 / <4.7>	14.4 / <5.3>	
NOMINAL RUNNING CURRENT (HEATING) - 1Ø / <3Ø>	A		10.6 / <4.3>	13.5 / <5.0>	
POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz		220 - 240 / 1 / 50 / <380 - 415 / 3 / 50>		
EER - 1Ø / <3Ø>	W/W		3.06 / <2.90>	3.11 / <3.22>	
COP - 1Ø / <3Ø>	W/W		3.82 / <3.32>	3.48 / <3.62>	
REFRIGERANT TYPE			R410A	R410A	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE	OUTDOOR CAP. TUBE & TXV	
INDOOR UNIT	CONTROL		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
	AIR DISCHARGE OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
	AIR FLOW	HIGH	l/s / CFM	415 / 880	
		MEDIUM	l/s / CFM	349 / 740	
		LOW	l/s / CFM	321 / 680	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	0	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	49 / 45 / 43	
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)	
		WIDTH	mm/in	820 (930) / 32.2 (36.6)	
		DEPTH	mm/in	820 (930) / 32.2 (36.6)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)	
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)	
		DEPTH	mm/in	920 (1000) / 32.2 (36.6)	
WEIGHT (UNIT + PANEL)		kg/lb	35 + 4 / 77 + 9		
CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4		
OUTDOOR UNIT	AIR FLOW		l/s / CFM	684 / 1450	1605 / 3400
	SOUND PRESSURE LEVEL		dBA	54	58
	UNIT DIMENSION	HEIGHT	mm/in	750 / 29.5	850 / 33.5
		WIDTH	mm/in	855 / 33.7	1030 / 40.6
		DEPTH	mm/in	328 / 12.9	400 / 15.8
	PACKING DIMENSION	HEIGHT	mm/in	810 / 31.9	1000 / 39.4
		WIDTH	mm/in	990 / 39.0	1200 / 47.2
		DEPTH	mm/in	415 / 16.3	560 / 22.1
	UNIT WEIGHT		kg/lb	68 / 150	95 / 209
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	9.5 / 3/8
GAS			mm/in	15.9 / 5/8	15.9 / 5/8
REFRIGERANT CHARGE		kg/lb	1.80 / 3.97	1.90 / 4.19	

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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 1.5m BELOW FASCIA.

GENERAL DATA - HEAT PUMP (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 40AR		
	OUTDOOR UNIT		A5LC 35CR	A5LC 40CR	
NOMINAL COOLING CAPACITY - 1Ø / <3Ø>	Btu/h		33500 / <33500>	39000 / <39000>	
	W		9820 / <9820>	11430 / <11430>	
NOMINAL HEATING CAPACITY - 1Ø / <3Ø>	Btu/h		34500 / <34500>	41000 / <41000>	
	W		10110 / <10110>	12020 / <12020>	
NOMINAL TOTAL INPUT POWER (COOLING) - 1Ø / <3Ø>	W		2951 / <2880>	3834 / <3780>	
NOMINAL TOTAL INPUT POWER (HEATING) - 1Ø / <3Ø>	W		2811 / <2600>	3310 / <3290>	
NOMINAL RUNNING CURRENT (COOLING) - 1Ø / <3Ø>	A		14.5 / <5.3>	18.1 / <6.9>	
NOMINAL RUNNING CURRENT (HEATING) - 1Ø / <3Ø>	A		13.6 / <5.1>	17.0 / <6.3>	
POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz		220 - 240 / 1 / 50 / <380 - 415 / 3 / 50>		
EER - 1Ø / <3Ø>	W/W		3.33 / <3.41>	2.98 / <3.02>	
COP - 1Ø / <3Ø>	W/W		3.60 / <3.89>	3.63 / <3.65>	
REFRIGERANT TYPE			R410A		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE & TXV		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
	AIR FLOW	HIGH	l/s / CFM	467 / 990	
		MEDIUM	l/s / CFM	406 / 860	
		LOW	l/s / CFM	359 / 760	
	EXTERNAL STATIC PRESSURE (H/M/L)	Pa (in.wg.)	0		
	SOUND PRESSURE LEVEL (H/M/L)	dBA	51 / 48 / 46		
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)	
		WIDTH	mm/in	820 (930) / 32.2 (36.6)	
		DEPTH	mm/in	820 (930) / 32.2 (36.6)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)	
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)	
		DEPTH	mm/in	920 (1000) / 32.2 (36.6)	
	WEIGHT (UNIT + PANEL)	kg/lb	38 + 4 / 84 + 9		
	CONDENSATE DRAIN SIZE	mm/in	19.1 / 3/4		
OUTDOOR UNIT	AIR FLOW	l/s / CFM	1605 / 3400		
	SOUND PRESSURE LEVEL	dBA	58		
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.5	
		WIDTH	mm/in	1030 / 40.6	
		DEPTH	mm/in	400 / 15.8	
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.4	
		WIDTH	mm/in	1200 / 47.2	
		DEPTH	mm/in	560 / 22.1	
	UNIT WEIGHT	kg/lb	95 / 209	100 / 221	
	PIPE CONNECTION	SIZE	TYPE		FLARE VALVE
LIQUID			mm/in	9.51 / 3/8	9.5 / 3/8
GAS		mm/in	15.9 / 5/8	15.9 / 5/8	
REFRIGERANT CHARGE	kg/lb	1.90 / 4.19		1.95 / 4.30	

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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 1.5m BELOW FASCIA.

GENERAL DATA - HEAT PUMP (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 50AR	
	OUTDOOR UNIT		A5LC 50CR	
NOMINAL COOLING CAPACITY	Btu/h		48500	
	W		14210	
NOMINAL HEATING CAPACITY	Btu/h		49000	
	W		14360	
NOMINAL TOTAL INPUT POWER (COOLING)	W		5000	
NOMINAL TOTAL INPUT POWER (HEATING)	W		4580	
NOMINAL RUNNING CURRENT (COOLING)	A		8.7	
NOMINAL RUNNING CURRENT (HEATING)	A		8.4	
POWER SOURCE	V/Ph/Hz		380 - 415 / 3 / 50	
EER	W/W		2.84	
COP	W/W		3.14	
REFRIGERANT TYPE			R410A	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE & TXV	
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH	l/s / CFM	491 / 1040
		MEDIUM	l/s / CFM	448 / 950
		LOW	l/s / CFM	411 / 870
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	0
	SOUND PRESSURE LEVEL (H/M/L)		dBA	53 / 52 / 50
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)
		WIDTH	mm/in	820 (930) / 32.2 (36.6)
		DEPTH	mm/in	820 (930) / 32.2 (36.6)
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	380 (130) / 15.0 (5.1)
		WIDTH	mm/in	920 (1020) / 36.2 (40.2)
		DEPTH	mm/in	920 (1000) / 32.2 (36.6)
	WEIGHT (UNIT + PANEL)		kg/lb	40 + 4 / 88 + 9
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4
OUTDOOR UNIT	AIR FLOW		l/s / CFM	2171 / 4600
	SOUND PRESSURE LEVEL		dBA	68
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.5
		WIDTH	mm/in	1030 / 40.6
		DEPTH	mm/in	400 / 15.8
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.4
		WIDTH	mm/in	1200 / 47.2
		DEPTH	mm/in	560 / 22.1
	UNIT WEIGHT		kg/lb	105 / 232
	PIPE CONNECTION	TYPE		FLARE VALVE
		SIZE	LIQUID	mm/in
GAS			mm/in	15.9 / 5/8
REFRIGERANT CHARGE		kg/lb	3.18 / 7.00	

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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 1.5m BELOW FASCIA.

GENERAL DATA - COOLING ONLY (R410A) - ACK - C SERIES

MODEL	INDOOR UNIT		A5CK 10C	A5CK 15C	
	OUTDOOR UNIT		A5LC 10C	A5LC 15C	
NOMINAL CAPACITY	Btu/h		9500	12500	
	W		2780	3660	
NOMINAL TOTAL INPUT POWER	W		950	1261	
NOMINAL RUNNING CURRENT	A		4.0	5.8	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W		2.93	2.90	
REFRIGERANT TYPE / CONTROL			R410A		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
	AIR FLOW	HIGH	l/s / CFM	189 / 400	194 / 410
		MEDIUM	l/s / CFM	184 / 390	184 / 390
		LOW	l/s / CFM	175 / 370	170 / 360
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0	0
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	44 / 42 / 41
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	250 (295) / 9.8 (11.6)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	317 (127) / 12.5 (5)	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)	
	UNIT WEIGHT (UNIT + PANEL)		kg/lb	22 + 2 / 49 + 4	23 + 2 / 51 + 4
CONDENSATE DRAIN SIZE		mm/in	19.05 / 3/4		
OUTDOOR UNIT	AIR FLOW		l/s / CFM	453 / 960	
	SOUND PRESSURE LEVEL		dBA	49	
	UNIT DIMENSION	HEIGHT	mm/in	540 / 21.3	
		WIDTH	mm/in	700 / 27.6	
		DEPTH	mm/in	250 / 9.8	
	PACKING DIMENSION	HEIGHT	mm/in	620 / 24.4	
		WIDTH	mm/in	810 / 31.9	
		DEPTH	mm/in	330 / 13.0	
	UNIT WEIGHT		kg/lb	30 / 66	32 / 71
	PIPE CONNECTION	TYPE		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	0.71 / 1.57	0.94 / 2.07	

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - COOLING ONLY (R410A) - ACK - C SERIES

MODEL	INDOOR UNIT		A5CK 20C	
	OUTDOOR UNIT		A5LC 20C	
NOMINAL CAPACITY - 1Ø / <3Ø>	Btu/h		17500 / <18000>	
	W		5130 / <5280>	
NOMINAL TOTAL INPUT POWER - 1Ø / <3Ø>	W		1690 / <1724>	
NOMINAL RUNNING CURRENT - 1Ø / <3Ø>	A		7.8 / <3.3>	
POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz		220 - 240 / 1 / 50 / <380 - 415 / 3 / 50>	
EER - 1Ø / <3Ø>	W/W		3.03 / <3.06>	
REFRIGERANT TYPE			R410A	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH	l/s / CFM	212 / 450
		MEDIUM	l/s / CFM	203 / 430
		LOW	l/s / CFM	194 / 410
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0
	SOUND PRESSURE LEVEL (H/M/L)		dBA	47 / 46 / 44
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	250 (295) / 9.8 (11.6)
		WIDTH	mm/in	570 (640) / 22.4 (25.2)
		DEPTH	mm/in	570 (640) / 22.4 (25.2)
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	317 (127) / 12.5 (5)
		WIDTH	mm/in	630 (700) / 24.8 (27.6)
		DEPTH	mm/in	630 (700) / 24.8 (27.6)
	UNIT WEIGHT (UNIT + PANEL)		kg/lb	23 + 2 / 51 + 4
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4
AIR FLOW		l/s / CFM	614 / 1300	
SOUND PRESSURE LEVEL		dBA	52	
UNIT DIMENSION	HEIGHT	mm/in	648 / 25.5	
	WIDTH	mm/in	855 / 33.7	
	DEPTH	mm/in	328 / 12.9	
PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0	
	WIDTH	mm/in	990 / 39.0	
	DEPTH	mm/in	415 / 16.3	
UNIT WEIGHT		kg/lb	59 / 130	
PIPE CONNECTION	TYPE		FLARE VALVE	
	SIZE	LIQUID	mm/in	6.35 / 1/4
		GAS	mm/in	12.7 / 1/2
REFRIGERANT CHARGE		kg/lb	1.38 / 3.03	

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - HEAT PUMP (R410A) - ACK - C SERIES

MODEL	INDOOR UNIT		A5CK 10CR	A5CK 15CR	
	OUTDOOR UNIT		A5LC 10CR	A5LC 15CR	
NOMINAL COOLING CAPACITY	Btu/h		9500	12500	
	W		2780	3660	
NOMINAL HEATING CAPACITY	Btu/h		9500	11500	
	W		2780	3370	
NOMINAL TOTAL INPUT POWER (COOLING)	W		950	1261	
NOMINAL TOTAL INPUT POWER (HEATING)	W		802	1111	
NOMINAL RUNNING CURRENT (COOLING)	A		4.0	5.9	
NOMINAL RUNNING CURRENT (HEATING)	A		3.7	4.6	
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50	
EER	W/W		2.93	2.9	
COP	W/W		3.47	3.03	
REFRIGERANT TYPE			R410A		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
	AIR FLOW	HEIGHT	l/s / CFM	189 / 400	194 / 410
		MEDIUM	l/s / CFM	184 / 390	184 / 390
		LOW	l/s / CFM	175 / 370	170 / 360
	EXTERNAL STATIC PRESSURE (H/M/L)	Pa / in.wg.		0	0
	SOUND PRESSURE LEVEL (H/M/L)	dBA		44 / 43 / 42	44 / 42 / 41
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	250 (295) / 9.8 (11.6)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	317 (127) / 12.5 (5)	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)	
	UNIT WEIGHT (UNIT + PANEL)	kg/lb		22 + 2 / 49 + 4	23 + 2 / 51 + 4
	CONDENSATE DRAIN SIZE	mm/in		19.1 / 3/4	
OUTDOOR UNIT	AIR FLOW	l/s / CFM		453 / 960	
	SOUND PRESSURE LEVEL	dBA		49	
	UNIT DIMENSION	HEIGHT	mm/in	540 / 21.3	
		WIDTH	mm/in	700 / 27.6	
		DEPTH	mm/in	250 / 9.8	
	PACKING DIMENSION	HEIGHT	mm/in	620 / 24.4	
		WIDTH	mm/in	810 / 31.9	
		DEPTH	mm/in	330 / 13.0	
	UNIT WEIGHT	kg/lb		30 / 66	32 / 71
	PIPE CONNECTION	TYPE		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		0.71 / 1.57	0.94 / 2.07	

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

GENERAL DATA - HEAT PUMP (R410A) - ACK - C SERIES

MODEL	INDOOR UNIT		A5CK 20CR		
	OUTDOOR UNIT		A5LC 20CR		
NOMINAL COOLING CAPACITY - 1Ø / <3Ø>	Btu/h		17500 / <18000>		
	W		5130 / <5280>		
NOMINAL HEATING CAPACITY - 1Ø / <3Ø>	Btu/h		17500 / <18500>		
	W		5130 / <5420>		
NOMINAL TOTAL INPUT POWER (COOLING) - 1Ø / <3Ø>	W		1690 / <1724>		
NOMINAL TOTAL INPUT POWER (HEATING) - 1Ø / <3Ø>	W		1520 / <1494>		
NOMINAL RUNNING CURRENT (COOLING) - 1Ø / <3Ø>	A		7.8 / <3.3>		
NOMINAL RUNNING CURRENT (HEATING) - 1Ø / <3Ø>	A		7.1 / <2.8>		
POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz		220 - 240 / 1 / 50 / <380 - 415 / 3 / 50>		
EER - 1Ø / <3Ø>	W/W		3.03 / <3.06>		
COP - 1Ø / <3Ø>	W/W		3.37 / <3.63>		
REFRIGERANT TYPE			R410A		
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP. TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
	AIR FLOW	HIGH	l/s / CFM	212 / 450	
		MEDIUM	l/s / CFM	203 / 430	
		LOW	l/s / CFM	194 / 410	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa / in.wg.	0	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	47 / 46 / 44	
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	250 (295) / 9.8 (11.6)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)	
	PACKING DIMENSION () - PANEL	HEIGHT	mm/in	317 (127) / 12.5 (5)	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)	
	UNIT WEIGHT (UNIT + PANEL)		kg/lb	23 + 2 / 51 + 4	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / 3/4	
OUTDOOR UNIT	AIR FLOW		l/s / CFM	614 / 1300	
	SOUND PRESSURE LEVEL		dBA	52	
	UNIT DIMENSION	HEIGHT	mm/in	648 / 25.5	
		WIDTH	mm/in	855 / 33.7	
		DEPTH	mm/in	328 / 12.9	
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0	
		WIDTH	mm/in	990 / 39.0	
		DEPTH	mm/in	415 / 16.3	
	UNIT WEIGHT		kg/lb	59 / 130	
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	6.35 / 1/4
			GAS	mm/in	12.7 / 1/2
REFRIGERANT CHARGE		kg/lb	1.38 / 3.03		

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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 C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

COMPONENTS DATA (R22) - ACK - A SERIES

MODEL	INDOOR UNIT			ACK 20A			
	OUTDOOR UNIT			ALC 18C		ALC 20C	
INDOOR FAN	TYPE			TURBO FAN			
	QUANTITY			1			
	MATERIAL			ASG20			
	DRIVE			DIRECT			
	DIAMETER		mm/in	450 / 17.72			
	LENGTH		mm/in	169.5 / 6.67			
INDOOR FAN MOTOR	TYPE			INDUCTION			
	QUANTITY			1			
	INDEX OF PROTECTION (IP)			IP22			
OUTDOOR FAN	TYPE			PROPELLER			
	QUANTITY			1			
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN			
	DRIVE			DIRECT			
	DIAMETER		mm/in	457 / 18			
OUTDOOR FAN MOTOR	TYPE			INDUCTION			
	QUANTITY			1			
	INDEX OF PROTECTION (IP)			IP54			
COMPRESSOR	TYPE			ROTARY			
	OIL TYPE			ATMOS NM56M or SUNISO 4GDID			
	OIL AMOUNT		cm ³ / fl.oz.	670 / 23.6			
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER			
		DIAMETER	mm/in	9.52 / 3/8			
		THICKNESS	mm/in	0.35 / 0.014			
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)			
		THICKNESS	mm/in	0.11 / 0.0043			
		FACE AREA	m ² /ft ²	0.469 / 5.022			
		ROW	2				
		FIN PER INCH	12				
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER			
		DIAMETER	mm/in	7.00 / 0.276			
		THICKNESS	mm/in	0.28 / 0.011			
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)			
		THICKNESS	mm/in	0.10 / 0.004			
		FACE AREA	m ² /ft ²	0.52 / 5.59			
		ROW	1		2		
		FIN PER INCH	20		24		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER			
		QUANTITY	pc	1			
		SIZE	LENGTH	mm/in	576.0 / 22.7		
		WIDTH	mm/in	556.0 / 21.9			
		THICKNESS	mm/in	22.0 / 0.87			
CASING	PANEL	MATERIAL		ABS			
		FINISHING		N/A			
		COLOUR		LIGHT GREY			
	INDOOR UNIT	MATERIAL		GALVANIZED IRON			
		FINISHING		WITH PE INSULATION			
		COLOUR		GREY			
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL			
		FINISHING		POLYESTER POWDER			
		COLOUR		LIGHT GREY			

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COMPONENTS DATA (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 25A		
	OUTDOOR UNIT		ALC 25C		
INDOOR FAN	TYPE		TURBO FAN		
	QUANTITY		1		
	MATERIAL		ASG20		
	DRIVE		DIRECT		
	DIAMETER	mm/in	450 / 17.72		
	LENGTH	mm/in	169.5 / 6.67		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP22		
OUTDOOR FAN	TYPE		PROPELLER		
	QUANTITY		1		
	MATERIAL		GLASS REINFORCED ARCYL STYRENE RESIN		
	DIAMETER	mm/in	457 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP54		
COMPRESSOR	TYPE		ROTARY		
	OIL TYPE		ATMOS NM56M or SUNISO 4GDID		
	OIL AMOUNT	cm ³ / fl.oz.	700 / 24.6		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.35 / 0.014	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.469 / 5.022	
		ROW		2	
FIN PER INCH			14		
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.00 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)	
		THICKNESS	mm/in	0.10 / 0.004	
		FACE AREA	m ² /ft ²	0.62 / 6.67	
		ROW		2	
FIN PER INCH			18		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY	pc	1	
		SIZE	LENGTH	mm/in	576.0 / 22.7
			WIDTH	mm/in	556.0 / 21.9
			THICKNESS	mm/in	22.0 / 0.87
CASING	PANEL	MATERIAL		ABS	
		FINISHING		N/A	
		COLOUR		LIGHT GREY	
	INDOOR UNIT	MATERIAL		GALVANIZED IRON	
		FINISHING		WITH PE INSULATION	
		COLOUR		GREY	
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL	
		FINISHING		POLYESTER POWDER	
		COLOUR		LIGHT GREY	

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COMPONENTS DATA (R22) - ACK - A SERIES

MODEL	INDOOR UNIT			ACK 30A				
	OUTDOOR UNIT			ALC 28C		ALC 30C		
INDOOR FAN	TYPE			TURBO FAN				
	QUANTITY			1				
	MATERIAL			ASG20				
	DRIVE			DIRECT				
	DIAMETER		mm/in	450 / 17.72				
	LENGTH		mm/in	169.5 / 6.67				
INDOOR FAN MOTOR	TYPE			INDUCTION				
	QUANTITY			1				
	INDEX OF PROTECTION (IP)			IP22				
OUTDOOR FAN	TYPE			PROPELLER				
	QUANTITY			1				
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN				
	DRIVE			DIRECT				
	DIAMETER		mm/in	457 / 18	609.6 / 24			
OUTDOOR FAN MOTOR	TYPE			INDUCTION				
	QUANTITY			1				
	INDEX OF PROTECTION (IP)			IP54		-		
COMPRESSOR	TYPE			ROTARY		SCROLL		
	OIL TYPE			ATMOS M60 or SUNISO 4GDID		MINERAL (Sontex 200 LT)		
	OIL AMOUNT		cm ³ / fl.oz.	1130 / 39.8		1240 / 43.6		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER				
		DIAMETER		mm/in	9.52 / 3/8			
		THICKNESS		mm/in	0.35 / 0.014			
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)				
		THICKNESS		mm/in	0.11 / 0.0043			
		FACE AREA		m ² /ft ²	0.469 / 5.022			
		ROW		2				
FIN PER INCH		16						
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		SEAMLESS COPPER		
		DIAMETER		mm/in	9.52 / 3/8		9.52 / 3/8	
		THICKNESS		mm/in	0.33 / 0.013		0.35 / 0.014	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)		ALUMINIUM (SLIT FIN)		
		THICKNESS		mm/in	0.12 / 0.005		0.12 / 0.005	
		FACE AREA		m ² /ft ²	0.61 / 6.52		0.87 / 9.33	
		ROW		2		1		
		FIN PER INCH		18		16		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER				
		QUANTITY		pc		1		
		SIZE	LENGTH		mm/in		576.0 / 22.7	
			WIDTH		mm/in		556.0 / 21.9	
			THICKNESS		mm/in		22.0 / 0.87	
CASING	PANEL	MATERIAL		ABS				
		FINISHING		N/A				
		COLOUR		LIGHT GREY				
	INDOOR UNIT	MATERIAL		GALVANIZED IRON				
		FINISHING		WITH PE INSULATION				
		COLOUR		GREY				
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL				
		FINISHING		POLYESTER POWDER				
		COLOUR		LIGHT GREY				

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COMPONENTS DATA (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 40A		
	OUTDOOR UNIT		ALC 35C	ALC 40C	
INDOOR FAN	TYPE		TURBO FAN		
	Q'TY		1		
	MATERIAL		ASG20		
	DRIVE		DIRECT		
	DIAMETER	mm/in	450 / 17.72		
	LENGTH	mm/in	169.5 / 6.67		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	Q'TY		1		
	INDEX OF PROTECTION (IP)		IP22		
OUTDOOR FAN	TYPE		PROPELLER		
	Q'TY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	Q'TY		1		
	INDEX OF PROTECTION (IP)		-		
COMPRESSOR	TYPE		SCROLL		
	OIL TYPE		MINERAL (Sontex 200 LT)	MINERAL (Sontex 200 LT)	
	OIL AMOUNT	cm ³ / fl.oz.	1240 / 43.6	1240 / 43.6	
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVED COPPER	
		DIAMETER	mm/in	7.00 / 0.28	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.469 / 5.022	
		ROW		3	
FIN PER INCH		20			
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.35 / 0.014	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (CORR. FIN)
		THICKNESS	mm/in	0.127 / 0.005	0.127 / 0.005
		FACE AREA	m ² /ft ²	0.87 / 9.33	0.87 / 9.33
		ROW		1	2
FIN PER INCH		16	14		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY	pc	1	
		SIZE	LENGTH	mm/in	576.0 / 22.7
			WIDTH	mm/in	556.0 / 21.9
			THICKNESS	mm/in	22.0 / 0.87
CASING	PANEL	MATERIAL		ABS	
		FINISHING		N/A	
		COLOUR		LIGHT GREY	
	INDOOR UNIT	MATERIAL		GALVANIZED IRON	
		FINISHING		WITH PE INSULATION	
		COLOUR		GREY	
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL	
		FINISHING		POLYESTER POWDER	
		COLOUR		LIGHT GREY	

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COMPONENTS DATA (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 50A		
	OUTDOOR UNIT		ALC 50C		
INDOOR FAN	TYPE		TURBO FAN		
	QUANTITY		1		
	MATERIAL		ASG20		
	DRIVE		DIRECT		
	DIAMETER	mm/in	450 / 17.72		
	LENGTH	mm/in	169.5 / 6.67		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP22		
OUTDOOR FAN	TYPE		PROPELLER		
	QUANTITY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DIAMETER	mm/in	609.6 / 24		
OUTDOOR FAN MOTOR	TYPE		PROPELLER		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		-		
COMPRESSOR	TYPE		SCROLL		
	OIL TYPE		MINERAL (Sontex 200 LT)		
	OIL AMOUNT	cm ³ / fl.oz.	1950 / 68.6		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVED COPPER	
		DIAMETER	mm/in	7.00 / 0.28	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.469 / 5.022	
		ROW		3	
		FIN PER INCH		20	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.35 / 0.014	
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	
		THICKNESS	mm/in	0.127 / 0.005	
		FACE AREA	m ² /ft ²	0.87 / 9.33	
		ROW		2	
		FIN PER INCH		16	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY	pc	1	
		SIZE	LENGTH	mm/in	576.0 / 22.7
			WIDTH	mm/in	556.0 / 21.9
			THICKNESS	mm/in	22.0 / 0.87
CASING	PANEL	MATERIAL		ABS	
		FINISHING		N/A	
		COLOUR		LIGHT GREY	
	INDOOR UNIT	MATERIAL		GALVANIZED IRON	
		FINISHING		WITH PE INSULATION	
		COLOUR		GREY	
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL	
		FINISHING		POLYESTER POWDER	
		COLOUR		LIGHT GREY	

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COMPONENTS DATA (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 20AR			
	OUTDOOR UNIT		ALC 18CR	ALC 20CR		
INDOOR FAN	TYPE		TURBO FAN			
	QUANTITY		1			
	MATERIAL		ASG20			
	DRIVE		DIRECT			
	DIAMETER	mm/in	450 / 17.72			
	LENGTH	mm/in	169.5 / 6.67			
INDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		IP22			
OUTDOOR FAN	TYPE		PROPELLER			
	QUANTITY		1			
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN			
	DRIVE		DIRECT			
	DIAMETER	mm/in	457 / 18			
OUTDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		IP54			
COMPRESSOR	TYPE		ROTARY			
	OIL TYPE		ATMOS NM56M or SUNISO 4GDID			
	OIL AMOUNT	cm ³ / fl.oz.	670 / 23.6			
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.35 / 0.014		
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m ² /ft ²	0.469 / 5.022		
		ROW		2		
		FIN PER INCH		12		
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		
		DIAMETER	mm/in	7.00 / 0.276		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)		
		THICKNESS	mm/in	0.10 / 0.004		
		FACE AREA	m ² /ft ²	0.52 / 5.59		
		ROW		1	2	
		FIN PER INCH		20	24	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	576.0 / 22.7	
			WIDTH	mm/in	556.0 / 21.9	
			THICKNESS	mm/in	22.0 / 0.87	
CASING	PANEL	MATERIAL		ABS		
		FINISHING		N/A		
		COLOUR		LIGHT GREY		
	INDOOR UNIT	MATERIAL		GALVANIZED IRON		
		FINISHING		WITH PE INSULATION		
		COLOUR		GREY		
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL		
		FINISHING		POLYESTER POWDER		
COLOUR		LIGHT GREY				

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COMPONENTS DATA (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 25AR		
	OUTDOOR UNIT		ALC 25CR		
INDOOR FAN	TYPE		TURBO FAN		
	QUANTITY		1		
	MATERIAL		ASG20		
	DRIVE		DIRECT		
	DIAMETER	mm/in	450 / 17.72		
	LENGTH	mm/in	169.5 / 6.67		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP22		
OUTDOOR FAN	TYPE		PROPELLER		
	QUANTITY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT		
	DIAMETER	mm/in	457 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP54		
COMPRESSOR	TYPE		ROTARY		
	OIL TYPE		ATMOS NM56M or SUNISO 4GDID		
	OIL AMOUNT	cm ³ / fl.oz.	700 / 24.6		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.35 / 0.014	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.469 / 5.022	
		ROW		2	
		FIN PER INCH		16	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.00 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)	
		THICKNESS	mm/in	0.10 / 0.004	
		FACE AREA	m ² /ft ²	0.62 / 6.67	
		ROW		2	
		FIN PER INCH		18	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY	pc	1	
		SIZE	LENGTH	mm/in	576.0 / 22.7
			WIDTH	mm/in	556.0 / 21.9
			THICKNESS	mm/in	22.0 / 0.87
CASING	PANEL	MATERIAL		ABS	
		FINISHING		N/A	
		COLOUR		LIGHT GREY	
	INDOOR UNIT	MATERIAL		GALVANIZED IRON	
		FINISHING		WITH PE INSULATION	
		COLOUR		GREY	
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL	
		FINISHING		POLYESTER POWDER	
		COLOUR		LIGHT GREY	

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COMPONENTS DATA (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 30AR			
	OUTDOOR UNIT		ALC 28CR	ALC 30CR		
INDOOR FAN	TYPE		TURBO FAN			
	QUANTITY		1			
	MATERIAL		ASG20			
	DRIVE		DIRECT			
	DIAMETER	mm/in	450 / 17.72			
	LENGTH	mm/in	169.5 / 6.67			
INDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		IP22			
OUTDOOR FAN	TYPE		PROPELLER			
	QUANTITY		1			
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN			
	DRIVE		DIRECT			
	DIAMETER	mm/in	457 / 18	609.6 / 24		
OUTDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		IP54	-		
COMPRESSOR	TYPE		ROTARY	SCROLL		
	OIL TYPE		ATMOS M60 or SUNISO 4GDID	MINERAL (Sontex 200 LT)		
	OIL AMOUNT	cm ³ / fl.oz.	1130 / 39.8	1240 / 43.6		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.35 / 0.014		
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m ² /ft ²	0.469 / 5.022		
		ROW		2		
FIN PER INCH		16				
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS COPPER	
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	0.35 / 0.014	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (CORR. FIN)	
		THICKNESS	mm/in	0.12 / 0.005	0.12 / 0.005	
		FACE AREA	m ² /ft ²	0.61 / 6.52	0.87 / 9.33	
		ROW		2	2	
		FIN PER INCH		18	16	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	576.0 / 22.7	
			WIDTH	mm/in	556.0 / 21.9	
			THICKNESS	mm/in	22.0 / 0.87	
CASING	PANEL	MATERIAL		ABS		
		FINISHING		N/A		
		COLOUR		LIGHT GREY		
	INDOOR UNIT	MATERIAL		GALVANIZED IRON		
		FINISHING		WITH PE INSULATION		
		COLOUR		GREY		
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL		
		FINISHING		POLYESTER POWDER		
		COLOUR		LIGHT GREY		

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COMPONENTS DATA (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 40AR		
	OUTDOOR UNIT		ALC 35CR	ALC 40CR	
INDOOR FAN	TYPE		TURBO FAN		
	QUANTITY		1		
	MATERIAL		ASG20		
	DRIVE		DIRECT		
	DIAMETER	mm/in	450 / 17.72		
	LENGTH	mm/in	169.5 / 6.67		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP22		
OUTDOOR FAN	TYPE		PROPELLER		
	QUANTITY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT		
	DIAMETER	mm/in	609.6 / 24		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		-		
COMPRESSOR	TYPE		SCROLL		
	OIL TYPE		MINERAL (Sontex 200 LT)	MINERAL (Sontex 200 LT)	
	OIL AMOUNT	cm ³ / fl.oz.	1240 / 43.6	1240 / 43.6	
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVED COPPER	
		DIAMETER	mm/in	7.00 / 0.28	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.469 / 5.022	
		ROW		3	
		FIN PER INCH		20	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVED COPPER	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	
		THICKNESS	mm/in	0.127 / 0.005	
		FACE AREA	m ² /ft ²	0.87 / 9.33	
		ROW		2	
		FIN PER INCH		16	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY	pc	1	
		SIZE	LENGTH	mm/in	576.0 / 22.7
			WIDTH	mm/in	556.0 / 21.9
			THICKNESS	mm/in	22.0 / 0.87
		CASING	PANEL	MATERIAL	ABS
FINISHING	N/A				
COLOUR	LIGHT GREY				
INDOOR UNIT	MATERIAL		GALVANIZED IRON		
	FINISHING		WITH PE INSULATION		
	COLOUR		GREY		
OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL		
	FINISHING		POLYESTER POWDER		
	COLOUR	LIGHT GREY			

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COMPONENTS DATA (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 50AR		
	OUTDOOR UNIT		ALC 50CR		
INDOOR FAN	TYPE		TURBO FAN		
	QUANTITY		1		
	MATERIAL		ASG20		
	DRIVE		DIRECT		
	DIAMETER	mm/in	450 / 17.72		
	LENGTH	mm/in	169.5 / 6.67		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP22		
OUTDOOR FAN	TYPE		PROPELLER		
	QUANTITY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT		
	DIAMETER	mm/in	609.6 / 24		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		-		
COMPRESSOR	TYPE		SCROLL		
	OIL TYPE		MINERAL (Sontex 200 LT)		
	OIL AMOUNT	cm ³ / fl.oz.	1950 / 68.6		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVED COPPER	
		DIAMETER	mm/in	7.00 / 0.28	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.469 / 5.022	
		ROW		3	
		FIN PER INCH		20	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVED COPPER	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	
		THICKNESS	mm/in	0.127 / 0.005	
		FACE AREA	m ² /ft ²	0.87 / 9.33	
		ROW		2	
FIN PER INCH		16			
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY	pc	1	
		SIZE	LENGTH	mm/in	576.0 / 22.7
			WIDTH	mm/in	556.0 / 21.9
			THICKNESS	mm/in	22.0 / 0.87
CASING	PANEL	MATERIAL	ABS		
		FINISHING	N/A		
		COLOUR	LIGHT GREY		
	INDOOR UNIT	MATERIAL	GALVANIZED IRON		
		FINISHING	WITH PE INSULATION		
		COLOUR	GREY		
	OUTDOOR UNIT	MATERIAL	GALVANIZED MILD STEEL		
		FINISHING	POLYESTER POWDER		
		COLOUR	LIGHT GREY		

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COMPONENTS DATA (R22) - ACK - B SERIES

MODEL	INDOOR UNIT		ACK 15B	ACK 20B		
	OUTDOOR UNIT		ALC 15C	ALC 20C		
INDOOR FAN	TYPE		TURBO FAN			
	QUANTITY		1			
	MATERIAL		ASG20			
	DRIVE		DIRECT			
	DIAMETER	mm/in	446.5 / 17.6			
	LENGTH	mm/in	201.5 / 7.9			
INDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		-			
OUTDOOR FAN	TYPE		PROPELLER			
	QUANTITY		1			
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN			
	DRIVE		DIRECT			
	DIAMETER	mm/in	404 / 16	457 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		IP54			
COMPRESSOR	TYPE		ROTARY			
	OIL TYPE		ATMOS M60 or SUNISO 4GDID			
	OIL AMOUNT	cm ³ / fl.oz.	350 / 11.8	670 / 23.6		
INDOOR 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)	ALUMINIUM (SLIT FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.39 / 4.2	0.38 / 4.1	
		ROW		1	2	
		FIN PER INCH		18	14	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		
		DIAMETER	mm/in	7.00 / 0.276		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)	ALUMINIUM (RAISE LANCE)	
		THICKNESS	mm/in	0.10 / 0.004	0.10 / 0.004	
		FACE AREA	m ² /ft ²	0.36 / 3.88	0.52 / 5.59	
		ROW		1	1	
		FIN PER INCH		20	20	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	449.2 / 17.7	
		WIDTH	mm/in	458.2 / 18.0		
		THICKNESS	mm/in	24 / 0.9		
CASING	PANEL	MATERIAL		ABS		
		FINISHING		N/A		
		COLOUR		LIGHT GREY		
	INDOOR UNIT	MATERIAL		GALVANIZED IRON		
		FINISHING		WITH PE INSULATION		
		COLOUR		GREY		
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL		
		FINISHING		POLYESTER POWDER		
		COLOUR		LIGHT GREY		

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COMPONENTS DATA (R22) - ACK - B SERIES

MODEL	INDOOR UNIT		ACK 25B		
	OUTDOOR UNIT		ALC 25C		
INDOOR FAN	TYPE		TURBO FAN		
	QUANTITY		1		
	MATERIAL		ASG20		
	DRIVE		DIRECT		
	DIAMETER	mm/in	446.5 / 17.6		
	LENGTH	mm/in	201.5 / 7.9		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		-		
OUTDOOR FAN	TYPE		PROPELLER		
	QUANTITY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT		
	DIAMETER	mm/in	457 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP43		
COMPRESSOR	TYPE		ROTARY		
	OIL TYPE		ATMOS NM56M or SUNISO 4GDID		
	OIL AMOUNT	cm ³ / fl.oz.	700 / 24.6		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVED 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 / 0.0043	
		FACE AREA	m ² /ft ²	0.38 / 4.1	
		ROW		2	
		FIN PER INCH		14	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.00 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)	
		THICKNESS	mm/in	0.10 / 0.004	
		FACE AREA	m ² /ft ²	0.62 / 6.67	
		ROW		2	
		FIN PER INCH		18	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY	pc	1	
		SIZE	LENGTH	mm/in	449.2 / 17.7
			WIDTH	mm/in	458.2 / 18.0
			THICKNESS	mm/in	24 / 0.9
CASING	PANEL	MATERIAL		ABS	
		FINISHING		N/A	
		COLOUR		LIGHT GREY	
	INDOOR UNIT	MATERIAL		GALVANIZED IRON	
		FINISHING		WITH PE INSULATION	
		COLOUR		GREY	
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL	
		FINISHING		POLYESTER POWDER	
COLOUR		LIGHT GREY			

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COMPONENTS DATA (R22) - ACK - B SERIES

MODEL	INDOOR UNIT		ACK 15BR	ACK 20BR		
	OUTDOOR UNIT		ALC 15CR	ALC 20CR		
INDOOR FAN	TYPE		TURBO FAN			
	QUANTITY		1			
	MATERIAL		ASG20			
	DRIVE		DIRECT			
	DIAMETER	mm/in	446.5 / 17.6			
	LENGTH	mm/in	201.5 / 7.9			
INDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		-			
OUTDOOR FAN	TYPE		PROPELLER			
	QUANTITY		1			
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN			
	DRIVE		DIRECT			
	DIAMETER	mm/in	404 / 16	457 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		IP54			
COMPRESSOR	TYPE		ROTARY			
	OIL TYPE		ATMOS M60 or SUNISO 4GDID			
	OIL AMOUNT	cm ³ / fl.oz.	350 / 11.8	670 / 23.6		
INDOOR 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)	ALUMINIUM (SLIT FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.39 / 4.2	0.38 / 4.1	
		ROW		1	2	
		FIN PER INCH		18	14	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		
		DIAMETER	mm/in	7.00 / 0.276		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)	ALUMINIUM (RAISE LANCE)	
		THICKNESS	mm/in	0.10 / 0.004	0.10 / 0.004	
		FACE AREA	m ² /ft ²	0.36 / 3.88	0.52 / 5.59	
		ROW		1	1	
		FIN PER INCH		20	20	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	449.2 / 17.7	
			WIDTH	mm/in	458.2 / 18.0	
			THICKNESS	mm/in	24 / 0.9	
CASING	PANEL	MATERIAL		ABS		
		FINISHING		N/A		
		COLOUR		LIGHT GREY		
	INDOOR UNIT	MATERIAL		GALVANIZED IRON		
		FINISHING		WITH PE INSULATION		
		COLOUR		GREY		
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL		
		FINISHING		POLYESTER POWDER		
COLOUR		LIGHT GREY				

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COMPONENTS DATA (R22) - ACK - B SERIES

MODEL	INDOOR UNIT		ACK 25BR		
	OUTDOOR UNIT		ALC 25CR		
INDOOR FAN	TYPE		TURBO FAN		
	QUANTITY		1		
	MATERIAL		ASG20		
	DRIVE		DIRECT		
	DIAMETER	mm/in	446.5 / 17.6		
	LENGTH	mm/in	201.5 / 7.9		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		-		
OUTDOOR FAN	TYPE		PROPELLER		
	QUANTITY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT		
	DIAMETER	mm/in	457 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP43		
COMPRESSOR	TYPE		ROTARY		
	OIL TYPE		ATMOS NM56M or SUNISO 4GDID		
	OIL AMOUNT	cm ³ / fl.oz.	700 / 24.6		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.00 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)	
		THICKNESS	mm/in	0.10 / 0.004	
		FACE AREA	m ² /ft ²	0.62 / 6.67	
		ROW		2	
		FIN PER INCH		18	
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	0.127 / 0.005	
		FACE AREA	m ² /ft ²	0.51 / 5.53	
		ROW		2	
		FIN PER INCH		14	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY	pc	1	
		SIZE	LENGTH	mm/in	449.2 / 17.7
			WIDTH	mm/in	458.2 / 18.0
			THICKNESS	mm/in	24 / 0.9
CASING	PANEL	MATERIAL		ABS	
		FINISHING		N/A	
		COLOUR		LIGHT GREY	
	INDOOR UNIT	MATERIAL		GALVANIZED IRON	
		FINISHING		WITH PE INSULATION	
		COLOUR		GREY	
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL	
		FINISHING		POLYESTER POWDER	
		COLOUR		LIGHT GREY	

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COMPONENTS DATA (R22) - ACK - C SERIES

MODEL	INDOOR UNIT		ACK 10C	ACK 15C		
	OUTDOOR UNIT		ALC 10C	ALC 15C		
INDOOR FAN	TYPE		TURBO FAN			
	QUANTITY		1			
	MATERIAL		ASG20			
	DRIVE		DIRECT			
	DIAMETER	mm/in	330 / 13			
	LENGTH	mm/in	177.76 / 7			
INDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		-			
OUTDOOR FAN	TYPE		PROPELLER			
	QUANTITY		1			
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN			
	DIAMETER	mm/in	404 / 16			
OUTDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		IP54			
COMPRESSOR	TYPE		ROTARY			
	OIL TYPE		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		
		DIAMETER	mm/in	7.00 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (HYDROPHILIC FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.318 / 3.42	0.318 / 3.42	
		ROW		1	2	
FIN PER INCH			20	20		
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		
		DIAMETER	mm/in	7.00 / 0.276		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)		
		THICKNESS	mm/in	0.10 / 0.004		
		FACE AREA	m ² /ft ²	0.36 / 3.88		
ROW			1			
FIN PER INCH			20			
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	367.5 / 14.5	
			WIDTH	mm/in	381.0 / 15.0	
THICKNESS	mm/in	20.8 / 0.8				
CASING	PANEL	MATERIAL		ABS		
		FINISHING		N/A		
		COLOUR		LIGHT GREY		
	INDOOR UNIT	MATERIAL		GALVANIZED IRON		
		FINISHING		WITH PE INSULATION		
		COLOUR		GREY		
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL		
		FINISHING		POLYESTER POWDER		
COLOUR		LIGHT GREY				

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Components Data (R22) - ACK - C Series

MODEL	INDOOR UNIT			ACK 20C		
	OUTDOOR UNIT			ALC 18C	ALC 20C	
INDOOR FAN	TYPE			TURBO FAN		
	QUANTITY			1		
	MATERIAL			ASG20		
	DRIVE			DIRECT		
	DIAMETER		mm/in	330 / 13		
	LENGTH		mm/in	177.76 / 7		
INDOOR FAN MOTOR	TYPE			INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			-		
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER		mm/in	457 / 18		
OUTDOOR FAN MOTOR	TYPE			INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			IP54		
COMPRESSOR	TYPE			ROTARY		
	OIL TYPE			ATMOS NM56M or SUNISO 4GDID		
	OIL AMOUNT		cm ³ / fl.oz.	670 / 23.6		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVED COPPER		
		DIAMETER	mm/in	7.00 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m ² /ft ²	0.318 / 3.42		
		ROW	2			
		FIN PER INCH	20			
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		
		DIAMETER	mm/in	7.00 / 0.276		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)		
		THICKNESS	mm/in	0.10 / 0.004		
		FACE AREA	m ² /ft ²	0.52 / 5.59		
		ROW	1	2		
		FIN PER INCH	20	24		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	367.5 / 14.5	
			WIDTH	mm/in	381.0 / 15.0	
			THICKNESS	mm/in	20.8 / 0.8	
CASING	PANEL	MATERIAL		ABS		
		FINISHING		N/A		
		COLOUR		LIGHT GREY		
	INDOOR UNIT	MATERIAL		GALVANIZED IRON		
		FINISHING		WITH PE INSULATION		
		COLOUR		GREY		
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL		
		FINISHING		POLYESTER POWDER		
COLOUR		LIGHT GREY				

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COMPONENTS DATA (R22) - ACK - C SERIES

MODEL	INDOOR UNIT		ACK 10CR	ACK 15CR		
	OUTDOOR UNIT		ALC 10CR	ALC 15CR		
INDOOR FAN	TYPE		TURBO FAN			
	QUANTITY		1			
	MATERIAL		ASG20			
	DRIVE		DIRECT			
	DIAMETER	mm/in	330 / 13			
	LENGTH	mm/in	177.76 / 7			
INDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		-			
OUTDOOR FAN	TYPE		PROPELLER			
	QUANTITY		1			
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN			
	DRIVE		DIRECT			
	DIAMETER	mm/in	404 / 16			
OUTDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		IP54			
COMPRESSOR	TYPE		ROTARY			
	OIL TYPE		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		
		DIAMETER	mm/in	7.00 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (HYDROPHILIC FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.318 / 3.42	0.318 / 3.42	
		ROW		1	2	
		FIN PER INCH		20	20	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		
		DIAMETER	mm/in	7.00 / 0.276		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)		
		THICKNESS	mm/in	0.10 / 0.004		
		FACE AREA	m ² /ft ²	0.36 / 3.88		
		ROW		1		
FIN PER INCH		20				
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	367.5 / 14.5	
		WIDTH	mm/in	381.0 / 15.0		
		THICKNESS	mm/in	20.8 / 0.8		
CASING	PANEL	MATERIAL		ABS		
		FINISHING		N/A		
		COLOUR		LIGHT GREY		
	INDOOR UNIT	MATERIAL		GALVANIZED IRON		
		FINISHING		WITH PE INSULATION		
		COLOUR		GREY		
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL		
		FINISHING		POLYESTER POWDER		
		COLOUR		LIGHT GREY		

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COMPONENTS DATA (R22) - ACK - C SERIES

MODEL	INDOOR UNIT		ACK 20CR			
	OUTDOOR UNIT		ALC 18CR	ALC 20CR		
INDOOR FAN	TYPE		TURBO FAN			
	QUANTITY		1			
	MATERIAL		ASG20			
	DRIVE		DIRECT			
	DIAMETER	mm/in	330 / 13			
	LENGTH	mm/in	177.76 / 7			
INDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		-			
OUTDOOR FAN	TYPE		PROPELLER			
	QUANTITY		1			
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN			
	DRIVE		DIRECT			
	DIAMETER	mm/in	457 / 18			
OUTDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		IP54			
COMPRESSOR	TYPE		ROTARY			
	OIL TYPE		ATMOS NM56M or SUNISO 4GDID			
	OIL AMOUNT	cm ³ / fl.oz.	670 / 23.6			
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVED COPPER		
		DIAMETER	mm/in	7.00 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m ² /ft ²	0.318 / 3.42		
		ROW		2		
		FIN PER INCH		20		
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		
		DIAMETER	mm/in	7.00 / 0.276		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)		
		THICKNESS	mm/in	0.10 / 0.004		
		FACE AREA	m ² /ft ²	0.52 / 5.59		
		ROW		1	2	
		FIN PER INCH		20	24	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	367.5 / 14.5	
			WIDTH	mm/in	381.0 / 15.0	
			THICKNESS	mm/in	20.8 / 0.8	
CASING	PANEL	MATERIAL		ABS		
		FINISHING		N/A		
		COLOUR		LIGHT GREY		
	INDOOR UNIT	MATERIAL		GALVANIZED IRON		
		FINISHING		WITH PE INSULATION		
		COLOUR		GREY		
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL		
		FINISHING		POLYESTER POWDER		
		COLOUR		LIGHT GREY		

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COMPONENTS DATA (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 20A	A5CK 25A	
	OUTDOOR UNIT		A5LC 20C	A5LC 25C	
INDOOR FAN	TYPE		TURBO FAN		
	QUANTITY		1		
	MATERIAL		ASG20		
	DRIVE		DIRECT		
	DIAMETER	mm/in	450 / 17.72		
	LENGTH	mm/in	169.5 / 6.67		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP22		
OUTDOOR FAN	TYPE		PROPELLER		
	QUANTITY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT		
	DIAMETER	mm/in	457 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP54		
COMPRESSOR	TYPE		ROTARY	ROTARY	
	OIL TYPE		RB68A or Freol Alpha68M	RB68A or Freol Alpha68M	
	OIL AMOUNT	cm ³ / fl.oz.	670 / 23.6	1130 / 39.8	
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.00 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.476 / 0.005	
		ROW		1	
		FIN PER INCH		20	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.00 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)	ALUMINIUM (RAISE LANCE)
		THICKNESS	mm/in	0.10 / 0.004	0.10 / 0.004
		FACE AREA	m ² /ft ²	0.510 / 5.460	0.620 / 6.630
		ROW		2	2
		FIN PER INCH		18	18
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY	pc	1	
		SIZE	LENGTH	mm/in	576.0 / 22.7
			WIDTH	mm/in	556.0 / 21.9
			THICKNESS	mm/in	22.0 / 0.87
CASING	PANEL	MATERIAL	ABS		
		FINISHING	N/A		
		COLOUR	LIGHT GREY		
	INDOOR UNIT	MATERIAL	GALVANIZED IRON		
		FINISHING	WITH PE INSULATION		
		COLOUR	GREY		
	OUTDOOR UNIT	MATERIAL	GALVANIZED MILD STEEL		
		FINISHING	POLYESTER POWDER		
		COLOUR	LIGHT GREY		

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COMPONENTS DATA (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 30A			
	OUTDOOR UNIT		A5LC 28C	A5LC 35C		
INDOOR FAN	TYPE		TURBO FAN			
	Q'TY		1			
	MATERIAL		ASG20			
	DRIVE		DIRECT			
	DIAMETER	mm/in	450 / 17.72			
	LENGTH	mm/in	169.5 / 6.67			
INDOOR FAN MOTOR	TYPE		INDUCTION			
	Q'TY		1			
	INDEX OF PROTECTION (IP)		IP22			
OUTDOOR FAN	TYPE		PROPELLER			
	Q'TY		1			
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN			
	DRIVE		DIRECT			
	DIAMETER	mm/in	457 / 18	609.6 / 24		
OUTDOOR FAN MOTOR	TYPE		INDUCTION			
	Q'TY		1			
	INDEX OF PROTECTION (IP)		IP54	N/A		
COMPRESSOR	TYPE		ROTARY	SCROLL		
	OIL TYPE		RB68A or Freol Alpha68M	MOBIL EAL ARCTIC 22CC		
	OIL AMOUNT	cm ³ / fl.oz.	1130 / 39.8	1242 / 43.7		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		
		DIAMETER	mm/in	7.00 / 0.276		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m ² /ft ²	0.56 / 6.03		
		ROW		3		
		FIN PER INCH		20		
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS COPPER	
		DIAMETER	mm/in	7.00 / 0.276	7.00 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	ALUMINIUM (CORR. FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.620 / 6.630	0.87 / 9.33	
		ROW		2	2	
		FIN PER INCH		18	18	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	576.0 / 22.7	
			WIDTH	mm/in	556.0 / 21.9	
			THICKNESS	mm/in	22.0 / 0.87	
CASING	PANEL	MATERIAL	ABS			
		FINISHING	N/A			
		COLOUR	LIGHT GREY			
	INDOOR UNIT	MATERIAL	GALVANIZED IRON			
		FINISHING	WITH PE INSULATION			
		COLOUR	GREY			
	OUTDOOR UNIT	MATERIAL	GALVANIZED MILD STEEL			
		FINISHING	POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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COMPONENTS DATA (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT			A5CK 40A			
	OUTDOOR UNIT			A5LC 35C		A5LC 40C	
INDOOR FAN	TYPE			TURBO FAN			
	Q'TY			1			
	MATERIAL			ASG20			
	DRIVE			DIRECT			
	DIAMETER		mm/in	450 / 17.72			
	LENGTH		mm/in	169.5 / 6.67			
INDOOR FAN MOTOR	TYPE			INDUCTION			
	Q'TY			1			
	INDEX OF PROTECTION (IP)			IP22			
OUTDOOR FAN	TYPE			PROPELLER			
	Q'TY			1			
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN			
	DRIVE			DIRECT			
DIAMETER		mm/in	609.6 / 24				
OUTDOOR FAN MOTOR	TYPE			INDUCTION			
	Q'TY			1			
	INDEX OF PROTECTION (IP)			-			
COMPRESSOR	TYPE			SCROLL	SCROLL		
	OIL TYPE			MOBIL EAL ARCTIC 22CC		MOBIL EAL ARCTIC 22CC	
	OIL AMOUNT		cm ³ / fl.oz.	1242 / 43.7	1951 / 68.7		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER			
		DIAMETER	mm/in	7.00 / 0.276			
		THICKNESS	mm/in	0.28 / 0.011			
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)			
		THICKNESS	mm/in	0.11 / 0.0043			
		FACE AREA	m ² /ft ²	0.56 / 6.03			
		ROW	3				
FIN PER INCH		20					
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER			
		DIAMETER	mm/in	7.00 / 0.276			
		THICKNESS	mm/in	0.28 / 0.011			
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	ALUMINIUM (CORR. FIN)		
		THICKNESS	mm/in	0.10 / 0.0039	0.10 / 0.0039		
		FACE AREA	m ² /ft ²	0.87 / 9.33	0.87 / 9.33		
		ROW	2		2		
FIN PER INCH		18		18			
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER			
		QUANTITY		1			
		SIZE	LENGTH	mm/in	576.0 / 22.7		
			WIDTH	mm/in	556.0 / 21.9		
			THICKNESS	mm/in	22.0 / 0.87		
CASING	PANEL	MATERIAL		ABS			
		FINISHING		N/A			
		COLOUR		LIGHT GREY			
	INDOOR UNIT	MATERIAL		GALVANIZED IRON			
		FINISHING		WITH PE INSULATION			
		COLOUR		GREY			
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL			
		FINISHING		POLYESTER POWDER			
		COLOUR		LIGHT GREY			

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COMPONENTS DATA (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 50A		
	OUTDOOR UNIT		A5LC 50C		
INDOOR FAN	TYPE		TURBO FAN		
	Q'TY		1		
	MATERIAL		ASG20		
	DRIVE		DIRECT		
	DIAMETER	mm/in	450 / 17.72		
	LENGTH	mm/in	169.5 / 6.67		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	Q'TY		1		
	INDEX OF PROTECTION (IP)		IP22		
OUTDOOR FAN	TYPE		PROPELLER		
	Q'TY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DIAMETER	mm/in	609.6 / 24		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	Q'TY		1		
	INDEX OF PROTECTION (IP)		-		
COMPRESSOR	TYPE		SCROLL		
	OIL TYPE		MOBIL EAL ARCTIC 22CC		
	OIL AMOUNT	cm ³ / fl.oz.	1656 / 58.3		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.00 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.56 / 6.03	
		ROW		3	
		FIN PER INCH		20	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVED COPPER	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.30 / 0.012	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.36 / 3.95	
		ROW		2	
		FIN PER INCH		18	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY	pc	1	
		SIZE	LENGTH	mm/in	576.0 / 22.7
			WIDTH	mm/in	556.0 / 21.9
			THICKNESS	mm/in	22.0 / 0.87
CASING	PANEL	MATERIAL	ABS		
		FINISHING	N/A		
		COLOUR	LIGHT GREY		
	INDOOR UNIT	MATERIAL	GALVANIZED IRON		
		FINISHING	WITH PE INSULATION		
		COLOUR	GREY		
	OUTDOOR UNIT	MATERIAL	GALVANIZED MILD STEEL		
		FINISHING	POLYESTER POWDER		
		COLOUR	LIGHT GREY		

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COMPONENTS DATA (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 20AR	A5CK 25AR	
	OUTDOOR UNIT		A5LC 20CR	A5LC 25CR	
INDOOR FAN	TYPE		TURBO FAN		
	Q'TY		1		
	MATERIAL		ASG20		
	DRIVE		DIRECT		
	DIAMETER	mm/in	450 / 17.72		
	LENGTH	mm/in	169.5 / 6.67		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	Q'TY		1		
	INDEX OF PROTECTION (IP)		IP22		
OUTDOOR FAN	TYPE		PROPELLER		
	Q'TY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT		
	DIAMETER	mm/in	457 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	Q'TY		1		
	INDEX OF PROTECTION (IP)		IP54		
COMPRESSOR	TYPE		ROTARY	ROTARY	
	OIL TYPE		RB68A or Freol Alpha68M	RB68A or Freol Alpha68M	
	OIL AMOUNT	cm ³ / fl.oz.	670 / 23.6	1130 / 39.8	
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.00 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.475 / 0.005	
		ROW		1	
		FIN PER INCH		20	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.00 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)	ALUMINIUM (RAISE LANCE)
		THICKNESS	mm/in	0.10 / 0.004	0.10 / 0.004
		FACE AREA	m ² /ft ²	0.510 / 5.460	0.620 / 6.630
		ROW		2	2
		FIN PER INCH		18	18
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY	pc	1	
		SIZE	LENGTH	mm/in	576.0 / 22.7
			WIDTH	mm/in	556.0 / 21.9
			THICKNESS	mm/in	22.0 / 0.87
CASING	PANEL	MATERIAL	ABS		
		FINISHING	N/A		
		COLOUR	LIGHT GREY		
	INDOOR UNIT	MATERIAL	GALVANIZED IRON		
		FINISHING	WITH PE INSULATION		
		COLOUR	GREY		
	OUTDOOR UNIT	MATERIAL	GALVANIZED MILD STEEL		
		FINISHING	POLYESTER POWDER		
		COLOUR	LIGHT GREY		

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COMPONENTS DATA (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 30AR			
	OUTDOOR UNIT		A5LC 28CR	A5LC 35CR		
INDOOR FAN	TYPE		TURBO FAN			
	Q'TY		1			
	MATERIAL		ACG20			
	DRIVE		DIRECT			
	DIAMETER	mm/in	450 / 17.72			
	LENGTH	mm/in	169.5 / 6.67			
INDOOR FAN MOTOR	TYPE		INDUCTION			
	Q'TY		1			
	INDEX OF PROTECTION (IP)		IP22			
OUTDOOR FAN	TYPE		PROPELLER			
	Q'TY		1			
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN			
	DRIVE		DIRECT			
	DIAMETER	mm/in	457 / 18	609.6 / 24		
OUTDOOR FAN MOTOR	TYPE		INDUCTION			
	Q'TY		1			
	INDEX OF PROTECTION (IP)		IP54	-		
COMPRESSOR	TYPE		ROTARY	SCROLL		
	OIL TYPE		RB68A or Freol Alpha68M	MOBIL EAL ARCTIC 22C		
	OIL AMOUNT	cm ³ / fl.oz.	1130 / 39.8	1242 / 43.7		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		
		DIAMETER	mm/in	7.00 / 0.276		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m ² /ft ²	0.56 / 6.03		
		ROW		3		
		FIN PER INCH		20		
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		
		DIAMETER	mm/in	7.00 / 0.276		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	ALUMINIUM (CORR. FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.62 / 6.63	0.87 / 9.33	
		ROW		2	2	
		FIN PER INCH		18	18	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	576.0 / 22.7	
			WIDTH	mm/in	556.0 / 21.9	
			THICKNESS	mm/in	22.0 / 0.87	
CASING	PANEL	MATERIAL	ABS			
		FINISHING	N/A			
		COLOUR	LIGHT GREY			
	INDOOR UNIT	MATERIAL	GALVANIZED IRON			
		FINISHING	WITH PE INSULATION			
		COLOUR	GREY			
	OUTDOOR UNIT	MATERIAL	GALVANIZED MILD STEEL			
		FINISHING	POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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COMPONENTS DATA (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT			A5CK 40AR			
	OUTDOOR UNIT			A5LC 35CR		A5LC 40CR	
INDOOR FAN	TYPE			TURBO FAN			
	Q'TY			1			
	MATERIAL			ASG20			
	DRIVE			DIRECT			
	DIAMETER		mm/in	450 / 17.72			
	LENGTH		mm/in	169.5 / 6.67			
INDOOR FAN MOTOR	TYPE			INDUCTION			
	Q'TY			1			
	INDEX OF PROTECTION (IP)			IP22			
OUTDOOR FAN	TYPE			PROPELLER			
	Q'TY			1			
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN			
	DRIVE			DIRECT			
	DIAMETER		mm/in	609.6 / 24			
OUTDOOR FAN MOTOR	TYPE			INDUCTION			
	Q'TY			1			
	INDEX OF PROTECTION (IP)			-			
COMPRESSOR	TYPE			SCROLL	SCROLL		
	OIL TYPE			MOBIL EAL ARCTIC 22CC		MOBIL EAL ARCTIC 22CC	
	OIL AMOUNT		cm ³ / fl.oz.	1242 / 43.7	1951 / 68.7		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER			
		DIAMETER	mm/in	7.00 / 0.276			
		THICKNESS	mm/in	0.28 / 0.011			
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)			
		THICKNESS	mm/in	0.11 / 0.0043			
		FACE AREA	m ² /ft ²	0.56 / 6.03			
		ROW	3				
		FIN PER INCH	20				
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER			
		DIAMETER	mm/in	7.00 / 0.276			
		THICKNESS	mm/in	0.28 / 0.011			
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	ALUMINIUM (CORR. FIN)		
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043		
		FACE AREA	m ² /ft ²	0.87 / 9.33	0.87 / 9.33		
		ROW	2		2		
		FIN PER INCH	18		18		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER			
		QUANTITY		1			
		SIZE	LENGTH	mm/in	576.0 / 22.7		
			WIDTH	mm/in	556.0 / 21.9		
			THICKNESS	mm/in	22.0 / 0.87		
CASING	PANEL	MATERIAL		ABS			
		FINISHING		N/A			
		COLOUR		LIGHT GREY			
	INDOOR UNIT	MATERIAL		GALVANIZED IRON			
		FINISHING		WITH PE INSULATION			
		COLOUR		GREY			
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL			
		FINISHING		POLYESTER POWDER			
		COLOUR		LIGHT GREY			

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COMPONENTS DATA (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 50AR		
	OUTDOOR UNIT		A5LC 50CR		
INDOOR FAN	TYPE		TURBO FAN		
	Q'TY		1		
	MATERIAL		ASG20		
	DRIVE		DIRECT		
	DIAMETER	mm/in	450 / 17.72		
	LENGTH	mm/in	169.5 / 6.67		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	Q'TY		1		
	INDEX OF PROTECTION (IP)		IP22		
OUTDOOR FAN	TYPE		PROPELLER		
	Q'TY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT		
	DIAMETER	mm/in	609.6 / 24		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	Q'TY		1		
	INDEX OF PROTECTION (IP)		-		
COMPRESSOR	TYPE		SCROLL		
	OIL TYPE		MOBIL EAL ARCTIC 22CC		
	OIL AMOUNT	cm ³ / fl.oz.	1656 / 58.3		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	
		DIAMETER	mm/in	7.00 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.56 / 6.03	
		ROW		3	
		FIN PER INCH		20	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	
		DIAMETER	mm/in	7.00 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.87 / 9.33	
		ROW		2	
		FIN PER INCH		18	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY	pc	1	
		SIZE	LENGTH	mm/in	576.0 / 22.7
			WIDTH	mm/in	556.0 / 21.9
			THICKNESS	mm/in	22.0 / 0.87
CASING	PANEL	MATERIAL	ABS		
		FINISHING	N/A		
		COLOUR	LIGHT GREY		
	INDOOR UNIT	MATERIAL	GALVANIZED IRON		
		FINISHING	WITH PE INSULATION		
		COLOUR	GREY		
	OUTDOOR UNIT	MATERIAL	GALVANIZED MILD STEEL		
		FINISHING	POLYESTER POWDER		
COLOUR		LIGHT GREY			

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COMPONENTS DATA (R410A) - ACK - C SERIES

MODEL	INDOOR UNIT		A5CK 10C	A5CK 15C		
	OUTDOOR UNIT		A5LC 10C	A5LC 15C		
INDOOR FAN	TYPE		TURBO FAN			
	QUANTITY		1			
	MATERIAL		ASG20			
	DRIVE		DIRECT			
	DIAMETER	mm/in	330 / 13			
	LENGTH	mm/in	177.76 / 7			
INDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		-			
OUTDOOR FAN	TYPE		PROPELLER			
	QUANTITY		1			
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN			
	DRIVE		DIRECT			
	DIAMETER	mm/in	406 / 16			
OUTDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		IP54			
COMPRESSOR	TYPE		ROTARY			
	OIL TYPE		RB68A or Freol Alpha68M			
	OIL AMOUNT	cm ³ / fl.oz.	350 / 12.3	430 / 15.1		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		
		DIAMETER	mm/in	7.00 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (HYDROPHILIC FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.318 / 3.42	0.318 / 3.42	
		ROW		1	2	
		FIN PER INCH		16	20	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		
		DIAMETER	mm/in	7.00 / 0.276		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)		
		THICKNESS	mm/in	0.10 / 0.004		
		FACE AREA	m ² /ft ²	0.360 / 3.940		
		ROW		1		
		FIN PER INCH		20		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	367.5 / 14.5	
			WIDTH	mm/in	381.0 / 15.0	
			THICKNESS	mm/in	20.8 / 0.8	
CASING	PANEL	MATERIAL		ABS		
		FINISHING		N/A		
		COLOUR		LIGHT GREY		
	INDOOR UNIT	MATERIAL		GALVANIZED IRON		
		FINISHING		WITH PE INSULATION		
		COLOUR		GREY		
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL		
		FINISHING		POLYESTER POWDER		
		COLOUR		LIGHT GREY		

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COMPONENTS DATA (R410A) - ACK - C SERIES

MODEL	INDOOR UNIT		A5CK 20C		
	OUTDOOR UNIT		A5LC 20C		
INDOOR FAN	TYPE		TURBO FAN		
	QUANTITY		1		
	MATERIAL		ASG20		
	DRIVE		DIRECT		
	DIAMETER	mm/in	330 / 13		
	LENGTH	mm/in	177.76 / 7		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		-		
OUTDOOR FAN	TYPE		PROPELLER		
	QUANTITY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DIAMETER	mm/in	457 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP54		
COMPRESSOR	TYPE		ROTARY		
	OIL TYPE		RB68A or Freol Alpha68M		
	OIL AMOUNT	cm ³ / fl.oz.	670 / 23.6		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVED COPPER	
		DIAMETER	mm/in	7.00 / 0.28	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.318 / 3.42	
		ROW		2	
FIN PER INCH			20		
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVED COPPER	
		DIAMETER	mm/in	7.00 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)	
		THICKNESS	mm/in	0.10 / 0.004	
		FACE AREA	m ² /ft ²	0.510 / 5.460	
		ROW		2	
FIN PER INCH			18		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY	pc	1	
		SIZE	LENGTH	mm/in	367.5 / 14.5
			WIDTH	mm/in	381.0 / 15.0
			THICKNESS	mm/in	20.8 / 0.8
CASING	PANEL	MATERIAL		ABS	
		FINISHING		N/A	
		COLOUR		LIGHT GREY	
	INDOOR UNIT	MATERIAL		GALVANIZED IRON	
		FINISHING		WITH PE INSULATION	
		COLOUR		GREY	
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL	
		FINISHING		POLYESTER POWDER	
		COLOUR		LIGHT GREY	

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COMPONENTS DATA (R410A) - ACK - C SERIES

MODEL	INDOOR UNIT		A5CK 10CR	A5CK 15CR		
	OUTDOOR UNIT		A5LC 10CR	A5LC 15CR		
INDOOR FAN	TYPE		TURBO FAN			
	QUANTITY		1			
	MATERIAL		ASG20			
	DRIVE		DIRECT			
	DIAMETER	mm/in	330 / 13			
	LENGTH	mm/in	177.76 / 7			
INDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		-			
OUTDOOR FAN	TYPE		PROPELLER			
	QUANTITY		1			
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN			
	DRIVE		DIRECT			
	DIAMETER	mm/in	404 / 16			
OUTDOOR FAN MOTOR	TYPE		INDUCTION			
	QUANTITY		1			
	INDEX OF PROTECTION (IP)		IP54			
COMPRESSOR	TYPE		ROTARY			
	OIL TYPE		RB68A or Freol Alpha68M			
	OIL AMOUNT	cm ³ / fl.oz.	350 / 12.3	430 / 15.1		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		
		DIAMETER	mm/in	7.00 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (HYDROPHILIC FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.318 / 3.42	0.318 / 3.42	
		ROW		1	2	
		FIN PER INCH		16	20	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER		
		DIAMETER	mm/in	7.00 / 0.276		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)		
		THICKNESS	mm/in	0.10 / 0.004		
		FACE AREA	m ² /ft ²	0.360 / 3.940		
		ROW		1		
FIN PER INCH		20				
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	367.5 / 14.5	
			WIDTH	mm/in	381.0 / 15.0	
			THICKNESS	mm/in	20.8 / 0.8	
CASING	PANEL	MATERIAL		ABS		
		FINISHING		N/A		
		COLOUR		LIGHT GREY		
	INDOOR UNIT	MATERIAL		GALVANIZED IRON		
		FINISHING		WITH PE INSULATION		
		COLOUR		GREY		
	OUTDOOR UNIT	MATERIAL		GALVANIZED MILD STEEL		
		FINISHING		POLYESTER POWDER		
		COLOUR		LIGHT GREY		

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COMPONENTS DATA (R410A) - ACK - C SERIES

MODEL	INDOOR UNIT		A5CK 20C		
	OUTDOOR UNIT		A5LC 20C		
INDOOR FAN	TYPE		TURBO FAN		
	QUANTITY		1		
	MATERIAL		ASG20		
	DRIVE		DIRECT		
	DIAMETER	mm/in	330 / 13		
	LENGTH	mm/in	177.76 / 7		
INDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		-		
OUTDOOR FAN	TYPE		PROPELLER		
	QUANTITY		1		
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE		DIRECT		
	DIAMETER	mm/in	457 / 18		
OUTDOOR FAN MOTOR	TYPE		INDUCTION		
	QUANTITY		1		
	INDEX OF PROTECTION (IP)		IP54		
COMPRESSOR	TYPE		ROTARY		
	OIL TYPE		RB68A or Freol Alpha68M		
	OIL AMOUNT	cm ³ / fl.oz.	670 / 23.6		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVED COPPER	
		DIAMETER	mm/in	7.00 / 0.28	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m ² /ft ²	0.318 / 3.42	
		ROW		2	
		FIN PER INCH		20	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVED COPPER	
		DIAMETER	mm/in	7.00 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (RAISE LANCE)	
		THICKNESS	mm/in	0.10 / 0.004	
		FACE AREA	m ² /ft ²	0.510 / 5.460	
		ROW		2	
		FIN PER INCH		18	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY	pc	1	
		SIZE	LENGTH	mm/in	367.5 / 14.5
			WIDTH	mm/in	381.0 / 15.0
			THICKNESS	mm/in	20.8 / 0.8
CASING	PANEL	MATERIAL	ABS		
		FINISHING	N/A		
		COLOUR	LIGHT GREY		
	INDOOR UNIT	MATERIAL	GALVANIZED IRON		
		FINISHING	WITH PE INSULATION		
		COLOUR	GREY		
	OUTDOOR UNIT	MATERIAL	GALVANIZED MILD STEEL		
		FINISHING	POLYESTER POWDER		
		COLOUR	LIGHT GREY		

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

SAFETY DEVICES - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 20A		
	OUTDOOR UNIT		ALC 18C	ALC 20C	
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	LOW PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

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

MODEL	INDOOR UNIT		ACK 30A		
	OUTDOOR UNIT		ALC 28C	ALC 30C	
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	NC
		OPEN	kPa / psi	N/A	2937 / 426
		CLOSE	kPa / psi	N/A	2413 / 350
	LOW PRESSURE SWITCH	TYPE		N/A	NC
		OPEN	kPa / psi	N/A	124 / 18
		CLOSE	kPa / psi	N/A	193 / 28
	PHASE SEQUENCER - 1Ø / <3Ø>			N/A	N/A / <YES>
	DISCHARGE THERMOSTAT SETTING - 1Ø / <3Ø>		°C / °F	N/A	N/A / <130 / 266>

MODEL	INDOOR UNIT		ACK 40A		
	OUTDOOR UNIT		ALC 35C	ALC 40C	
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC	NC
		OPEN	kPa / psi	2937 / 426	2937 / 426
		CLOSE	kPa / psi	2413 / 350	2413 / 350
	LOW PRESSURE SWITCH	TYPE		NC	NC
		OPEN	kPa / psi	124 / 18	124 / 18
		CLOSE	kPa / psi	193 / 28	193 / 28
	PHASE SEQUENCER - 1Ø / <3Ø>			N/A	N/A / <YES>
	DISCHARGE THERMOSTAT SETTING - 1Ø / <3Ø>		°C / °F	N/A	N/A / <130 / 266>

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

SAFETY DEVICES - ACK - A SERIES

MODEL	INDOOR UNIT			ACK 50A	
	OUTDOOR UNIT			ALC 50C	
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC	
		OPEN	kPa / psi	2937 / 426	
		CLOSE	kPa / psi	2413 / 350	
	LOW PRESSURE SWITCH	TYPE		NC	
		OPEN	kPa / psi	124 / 18	
		CLOSE	kPa / psi	193 / 28	
	PHASE SEQUENCER			YES	
	DISCHARGE THERMOSTAT SETTING		°C / °F	130 / 266	

MODEL	INDOOR UNIT			ACK 20AR	
	OUTDOOR UNIT			ALC 18CR	ALC 20CR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	LOW PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

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

MODEL	INDOOR UNIT			ACK 30AR	
	OUTDOOR UNIT			ALC 28CR	ALC 30CR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	NC
		OPEN	kPa / psi	N/A	2937 / 426
		CLOSE	kPa / psi	N/A	2413 / 350
	LOW PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	PHASE SEQUENCER - 1Ø / <3Ø>			N/A	NA / <YES>
	DISCHARGE THERMOSTAT SETTING - 1Ø / <3Ø>		°C / °F	N/A	N/A / <130 / 266>

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

SAFETY DEVICES - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 40AR		
	OUTDOOR UNIT		ALC 35CR	ALC 40CR	
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC	NC
		OPEN	kPa / psi	2937 / 426	2937 / 426
		CLOSE	kPa / psi	2413 / 350	2413 / 350
	LOW PRESSURE SWITCH	TYPE		N/A	N/A
		OPEN	kPa / psi	N/A	N/A
		CLOSE	kPa / psi	N/A	N/A
	PHASE SEQUENCER - 1Ø / <3Ø>			N/A	N/A / <YES>
DISCHARGE THERMOSTAT SETTING - 1Ø / <3Ø>		°C / °F	N/A	N/A / <130 / 266>	

MODEL	INDOOR UNIT		ACK 50AR	
	OUTDOOR UNIT		ALC 50CR	
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	2937 / 426
		CLOSE	kPa / psi	2413 / 350
	LOW PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	PHASE SEQUENCER			YES
DISCHARGE THERMOSTAT SETTING		°C / °F	130 / 266	

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

SAFETY DEVICES - ACK - B SERIES

MODEL	INDOOR UNIT		ACK 15B	ACK 20B	
	OUTDOOR UNIT		ALC 15C	ALC 20C	
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	
		OPEN	kPa / psi	N/A	
		CLOSE	kPa / psi	N/A	
	LOW PRESSURE SWITCH	TYPE		N/A	
		OPEN	kPa / psi	N/A	
		CLOSE	kPa / psi	N/A	
	PHASE SEQUENCER				N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	

MODEL	INDOOR UNIT		ACK 25B		
	OUTDOOR UNIT		ALC 25C		
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	
		OPEN	kPa / psi	N/A	
		CLOSE	kPa / psi	N/A	
	LOW PRESSURE SWITCH	TYPE		N/A	
		OPEN	kPa / psi	N/A	
		CLOSE	kPa / psi	N/A	
	PHASE SEQUENCER				N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	

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

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

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

SAFETY DEVICES - ACK - B SERIES

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

MODEL	INDOOR UNIT		ACK 20C		
	OUTDOOR UNIT		ALC 18C	ALC 20C	
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	
		OPEN	kPa / psi	N/A	
		CLOSE	kPa / psi	N/A	
	LOW PRESSURE SWITCH	TYPE		N/A	
		OPEN	kPa / psi	N/A	
		CLOSE	kPa / psi	N/A	
	PHASE SEQUENCER				N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	

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

MODEL	INDOOR UNIT		ACK 20CR		
	OUTDOOR UNIT		ALC 18CR	ALC 20CR	
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	
		OPEN	kPa / psi	N/A	
		CLOSE	kPa / psi	N/A	
	LOW PRESSURE SWITCH	TYPE		N/A	
		OPEN	kPa / psi	N/A	
		CLOSE	kPa / psi	N/A	
	PHASE SEQUENCER				N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	

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

SAFETY DEVICES - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 20A	A5CK 25A
	OUTDOOR UNIT		A5LC 20C	A5LC 25C
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	LOW PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	PHASE SEQUENCER - 1Ø / <3Ø>			N/A / <YES>
	DISCHARGE THERMOSTAT SETTING - 1Ø / <3Ø>			°C / °F

MODEL	INDOOR UNIT		A5CK 30A	
	OUTDOOR UNIT		A5LC 28C	A5LC 35C
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	LOW PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	PHASE SEQUENCER - 1Ø / <3Ø>			N/A / <YES>
	DISCHARGE THERMOSTAT SETTING - 1Ø / <3Ø>			°C / °F

MODEL	INDOOR UNIT		A5CK 40A	
	OUTDOOR UNIT		A5LC 35C	A5LC 40C
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	4137 / 600
		CLOSE	kPa / psi	3310 / 480
	LOW PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	48 / 7
		CLOSE	kPa / psi	152 / 22
	PHASE SEQUENCER - 1Ø / <3Ø>			N/A / <YES>
	DISCHARGE THERMOSTAT SETTING - 1Ø / <3Ø>			°C / °F

MODEL	INDOOR UNIT		A5CK 50A	
	OUTDOOR UNIT		A5LC 50C	
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	4137 / 600
		CLOSE	kPa / psi	3310 / 480
	LOW PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	48 / 7
		CLOSE	kPa / psi	152 / 22
	PHASE SEQUENCER			YES
	DISCHARGE THERMOSTAT SETTING			°C / °F

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

SAFETY DEVICES - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 20AR	A5CK 25AR
	OUTDOOR UNIT		A5LC 20CR	A5LC 25CR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	LOW PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	PHASE SEQUENCER - 1Ø / <3Ø>			N/A / <YES>
DISCHARGE THERMOSTAT SETTING - 1Ø / <3Ø>		°C / °F	N/A / <130 / 266>	

MODEL	INDOOR UNIT		A5CK 30AR	
	OUTDOOR UNIT		A5LC 28CR	A5LC 35CR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	LOW PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	PHASE SEQUENCER - 1Ø / <3Ø>			N/A / <YES>
DISCHARGE THERMOSTAT SETTING - 1Ø / <3Ø>		°C / °F	N/A / <130 / 266>	

MODEL	INDOOR UNIT		A5CK 40AR	
	OUTDOOR UNIT		A5LC 35CR	A5LC 40CR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	4137 / 600
		CLOSE	kPa / psi	3310 / 480
	LOW PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	48 / 7
		CLOSE	kPa / psi	152 / 22
	PHASE SEQUENCER - 1Ø / <3Ø>			N/A / <YES>
DISCHARGE THERMOSTAT SETTING - 1Ø / <3Ø>		°C / °F	N/A / <130 / 266>	

MODEL	INDOOR UNIT		A5CK 50AR	
	OUTDOOR UNIT		A5LC 50CR	
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	4137 / 600
		CLOSE	kPa / psi	3310 / 480
	LOW PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	48 / 7
		CLOSE	kPa / psi	152 / 22
	PHASE SEQUENCER			YES
DISCHARGE THERMOSTAT SETTING		°C / °F	130 / 266	

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

SAFETY DEVICES - ACK - C SERIES

MODEL	INDOOR UNIT		A5CK 10C	A5CK 15C
	OUTDOOR UNIT		A5LC 10C	A5LC 15C
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	LOW PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	PHASE SEQUENCER		N/A	
	DISCHARGE THERMOSTAT SETTING		°C / °F	

MODEL	INDOOR UNIT		A5CK 20C	
	OUTDOOR UNIT		A5LC 20C	
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	LOW PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	PHASE SEQUENCER - 1Ø / <3Ø>		N/A / <YES>	
	DISCHARGE THERMOSTAT SETTING - 1Ø / <3Ø>		°C / °F	

MODEL	INDOOR UNIT		A5CK 10CR	A5CK 15CR
	OUTDOOR UNIT		A5LC 10CR	A5LC 15CR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	LOW PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	PHASE SEQUENCER		N/A	
	DISCHARGE THERMOSTAT SETTING		°C / °F	

MODEL	INDOOR UNIT		A5CK 20CR	
	OUTDOOR UNIT		A5LC 20CR	
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	LOW PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	PHASE SEQUENCER - 1Ø / <3Ø>		N/A / <YES>	
	DISCHARGE THERMOSTAT SETTING - 1Ø / <3Ø>		°C / °F	

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

6. 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: ACK 20A – ALC 18C

Indoor Condition: 23°C DB, 15°C WB

Outdoor Condition: 37°C DB

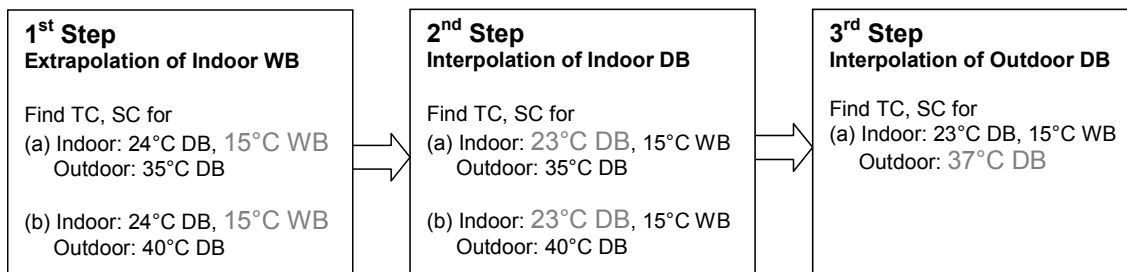
Solution:

OVERALL

Based on the Performance table on Pg 117

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.



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		4.896	3.205
	17		5.040	2.950

Total capacity, TC

$$\Rightarrow x_1 = 4.752\text{kW (Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB \& 35°C Outdoor WB)*}$$

Sensible capacity, SC

Extrapolation Method:

$$\Rightarrow \frac{17^\circ\text{C} - 15^\circ\text{C}}{17^\circ\text{C} - 16^\circ\text{C}} = \frac{2.950\text{kW} - y_1}{2.950\text{kW} - 3.205\text{kW}}$$

$$\Rightarrow y_1 = 3.460\text{kW}$$

(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		4.509	2.866
	17		4.635	2.618

Total capacity, TC

$$\Rightarrow x_2 = 4.383\text{kW (Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB \& 40°C Outdoor WB)*}$$

Sensible capacity, SC

Extrapolation Method:

$$\Rightarrow \frac{17^\circ\text{C} - 15^\circ\text{C}}{17^\circ\text{C} - 16^\circ\text{C}} = \frac{2.618\text{kW} - y_2}{2.618\text{kW} - 2.866\text{kW}}$$

$$\Rightarrow y_2 = 3.114\text{kW}$$

* 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

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	4.752	2.190	
23	15	----- x_3	y_3	
24	15	4.752	3.460	

Total capacity, TC

$$x_3 = 4.752\text{kW (Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB \& 35°C Outdoor WB)*}$$

Sensible capacity, SC

Interpolation Method:

$$\Rightarrow \frac{24^\circ\text{C} - 20^\circ\text{C}}{24^\circ\text{C} - 23^\circ\text{C}} = \frac{3.460\text{kW} - 2.190\text{kW}}{3.460\text{kW} - y_3}$$

$$\Rightarrow y_3 = 3.143\text{kW}$$

(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	4.383	1.846	
23	15	----- x_4	y_4	
24	15	4.383	3.114	

Total capacity, TC

$$\Rightarrow x_4 = 4.383\text{kW (Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB \& 40°C Outdoor WB)*}$$

Sensible capacity, SC

Interpolation Method:

$$\Rightarrow \frac{24^\circ\text{C} - 20^\circ\text{C}}{24^\circ\text{C} - 23^\circ\text{C}} = \frac{3.114\text{kW} - 1.846\text{kW}}{3.114\text{kW} - y_4}$$

$$\Rightarrow y_4 = 2.797\text{kW}$$

* 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	-----	4.752	3.143	x	y	4.383	2.797

Total capacity, TC

Interpolation Method:

$$\Rightarrow \frac{40^{\circ}\text{C} - 35^{\circ}\text{C}}{40^{\circ}\text{C} - 37^{\circ}\text{C}} = \frac{4.383\text{kW} - 4.752\text{kW}}{4.383\text{kW} - x}$$

$$\Rightarrow x = 4.604\text{kW}$$

Sensible capacity, SC

Interpolation Method:

$$\Rightarrow \frac{40^{\circ}\text{C} - 35^{\circ}\text{C}}{40^{\circ}\text{C} - 37^{\circ}\text{C}} = \frac{2.797\text{kW} - 3.143\text{kW}}{2.797\text{kW} - y}$$

$$\Rightarrow y = 3.005\text{kW}$$

**R22 MODELS
A SERIES (COOLING ONLY)**

MODEL : ACK 20A / ALC 18C

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	5.860	3.221	5.491	2.877	5.121	2.534	4.752	2.190	4.383	1.846	3.939	1.434
	16	6.059	2.950	5.671	2.612	5.284	2.274	4.896	1.936	4.509	1.597	4.044	1.192
24	16	6.059	4.219	5.671	3.881	5.284	3.543	4.896	3.205	4.509	2.866	4.044	2.461
	17	6.257	3.949	5.851	3.616	5.446	3.283	5.040	2.950	4.635	2.618	4.148	2.218
	18	6.455	3.678	6.032	3.351	5.608	3.023	5.185	2.696	4.761	2.369	4.253	1.976
	19	6.654	3.408	6.212	3.086	5.771	2.764	5.329	2.442	4.887	2.120	4.357	1.734
	20	6.853	3.139	6.403	2.842	5.953	2.545	5.502	2.247	5.052	1.950	4.512	1.593
28	18	6.455	4.947	6.032	4.620	5.608	4.292	5.185	3.965	4.761	3.638	4.253	3.245
	19	6.654	4.677	6.212	4.355	5.771	4.033	5.329	3.711	4.887	3.389	4.357	3.003
	20	6.853	4.408	6.403	4.111	5.953	3.814	5.502	3.516	5.052	3.219	4.512	2.862
	21	7.054	4.142	6.601	3.882	6.148	3.622	5.695	3.362	5.243	3.102	4.699	2.790
	22	7.254	3.875	6.799	3.652	6.344	3.430	5.889	3.207	5.433	2.985	4.887	2.718
	23	7.454	3.608	6.997	3.423	6.539	3.238	6.082	3.053	5.624	2.868	5.075	2.646
30	20	6.853	5.043	6.403	4.746	5.953	4.448	5.502	4.151	5.052	3.854	4.512	3.497
	21	7.054	4.776	6.601	4.516	6.148	4.256	5.695	3.996	5.243	3.736	4.699	3.425
	22	7.254	4.509	6.799	4.287	6.344	4.064	5.889	3.842	5.433	3.619	4.887	3.352
	23	7.454	4.243	6.997	4.058	6.539	3.872	6.082	3.687	5.624	3.502	5.075	3.280
	24	7.655	3.976	7.195	3.828	6.735	3.681	6.275	3.533	5.815	3.385	5.263	3.208

MODEL : ACK 20A / ALC 20C

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	6.888	3.832	6.407	3.380	5.926	2.929	5.445	2.477	4.964	2.025	4.387	1.484
	16	7.007	3.417	6.527	2.993	6.048	2.570	5.568	2.146	5.088	1.723	4.512	1.214
24	16	7.007	4.892	6.527	4.469	6.048	4.045	5.568	3.622	5.088	3.198	4.512	2.690
	17	7.127	4.478	6.648	4.082	6.169	3.686	5.691	3.291	5.212	2.895	4.637	2.420
	18	7.246	4.063	6.769	3.695	6.291	3.327	5.813	2.960	5.336	2.592	4.762	2.151
	19	7.366	3.648	6.889	3.308	6.413	2.969	5.936	2.629	5.459	2.289	4.888	1.882
	20	7.486	3.236	7.019	2.944	6.551	2.653	6.084	2.362	5.617	2.070	5.056	1.721
28	18	7.246	5.538	6.769	5.171	6.291	4.803	5.813	4.435	5.336	4.068	4.762	3.626
	19	7.366	5.124	6.889	4.784	6.413	4.444	5.936	4.104	5.459	3.765	4.888	3.357
	20	7.486	4.711	7.019	4.420	6.551	4.128	6.084	3.837	5.617	3.546	5.056	3.196
	21	7.607	4.301	7.155	4.071	6.702	3.842	6.250	3.612	5.797	3.382	5.254	3.107
	22	7.728	3.890	7.290	3.722	6.853	3.555	6.415	3.387	5.977	3.219	5.452	3.018
	23	7.849	3.479	7.426	3.373	7.003	3.268	6.580	3.162	6.157	3.056	5.650	2.929
30	24	7.970	3.069	7.562	3.025	7.154	2.981	6.746	2.937	6.337	2.893	5.847	2.840
	20	7.486	5.449	7.019	5.158	6.551	4.866	6.084	4.575	5.617	4.283	5.056	3.934
	21	7.607	5.038	7.155	4.809	6.702	4.579	6.250	4.350	5.797	4.120	5.254	3.845
	22	7.728	4.628	7.290	4.460	6.853	4.292	6.415	4.125	5.977	3.957	5.452	3.756
	23	7.849	4.217	7.426	4.111	7.003	4.005	6.580	3.900	6.157	3.794	5.650	3.667
24	7.970	3.806	7.562	3.762	7.154	3.718	6.746	3.675	6.337	3.631	5.847	3.578	

**R22 MODELS
A SERIES (COOLING ONLY)**

MODEL : ACK 25A / ALC 25C

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	8.677	5.285	8.056	4.678	7.435	4.070	6.814	3.463	6.192	2.855	5.447	2.126
	16	8.869	4.973	8.235	4.365	7.600	3.757	6.966	3.149	6.331	2.540	5.569	1.811
24	16	8.869	6.670	8.235	6.062	7.600	5.454	6.966	4.846	6.331	4.238	5.569	3.508
	17	9.062	6.358	8.413	5.749	7.765	5.140	7.117	4.532	6.469	3.923	5.692	3.193
	18	9.254	6.045	8.592	5.436	7.931	4.827	7.269	4.218	6.608	3.609	5.814	2.878
	19	9.446	5.733	8.771	5.123	8.096	4.514	7.421	3.904	6.746	3.294	5.937	2.563
	20	9.640	5.424	8.971	4.843	8.301	4.262	7.631	3.681	6.962	3.100	6.158	2.403
28	18	9.254	7.743	8.592	7.134	7.931	6.524	7.269	5.915	6.608	5.306	5.814	4.575
	19	9.446	7.430	8.771	6.821	8.096	6.211	7.421	5.601	6.746	4.992	5.937	4.260
	20	9.640	7.121	8.971	6.541	8.301	5.960	7.631	5.379	6.962	4.798	6.158	4.101
	21	9.836	6.815	9.184	6.282	8.532	5.750	7.880	5.217	7.229	4.685	6.446	4.046
	22	10.032	6.508	9.398	6.024	8.764	5.540	8.129	5.056	7.495	4.572	6.734	3.991
	23	10.228	6.202	9.611	5.766	8.995	5.330	8.378	4.894	7.762	4.458	7.022	3.935
30	20	9.640	7.970	8.971	7.389	8.301	6.808	7.631	6.227	6.962	5.647	6.158	4.949
	21	9.836	7.664	9.184	7.131	8.532	6.599	7.880	6.066	7.229	5.533	6.446	4.894
	22	10.032	7.357	9.398	6.873	8.764	6.389	8.129	5.904	7.495	5.420	6.734	4.839
	23	10.228	7.051	9.611	6.615	8.995	6.179	8.378	5.743	7.762	5.307	7.022	4.784
	24	10.424	6.744	9.825	6.357	9.226	5.969	8.627	5.582	8.029	5.194	7.310	4.729

MODEL : ACK 30A / ALC 28C

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	9.809	5.821	9.114	5.150	8.419	4.480	7.724	3.810	7.029	3.140	6.196	2.336
	16	9.855	5.223	9.194	4.609	8.534	3.995	7.873	3.381	7.213	2.768	6.420	2.031
24	16	9.855	7.178	9.194	6.564	8.534	5.951	7.873	5.337	7.213	4.723	6.420	3.987
	17	9.901	6.580	9.274	6.023	8.648	5.465	8.022	4.908	7.396	4.351	6.644	3.682
	18	9.947	5.982	9.355	5.481	8.763	4.980	8.171	4.479	7.579	3.978	6.868	3.377
	19	9.993	5.384	9.435	4.940	8.877	4.495	8.320	4.050	7.762	3.606	7.092	3.072
	20	10.039	4.788	9.515	4.416	8.991	4.043	8.466	3.671	7.942	3.299	7.313	2.852
28	18	9.947	7.938	9.355	7.437	8.763	6.936	8.171	6.435	7.579	5.934	6.868	5.333
	19	9.993	7.340	9.435	6.895	8.877	6.451	8.320	6.006	7.762	5.561	7.092	5.028
	20	10.039	6.744	9.515	6.371	8.991	5.999	8.466	5.627	7.942	5.254	7.313	4.807
	21	10.085	6.149	9.594	5.859	9.103	5.570	8.612	5.280	8.121	4.991	7.531	4.643
	22	10.131	5.554	9.673	5.347	9.215	5.141	8.757	4.934	8.299	4.727	7.750	4.479
	23	10.177	4.960	9.752	4.835	9.327	4.711	8.903	4.587	8.478	4.463	7.968	4.314
30	24	10.223	4.365	9.831	4.323	9.440	4.282	9.048	4.241	8.656	4.200	8.186	4.150
	20	10.039	7.722	9.515	7.349	8.991	6.977	8.466	6.604	7.942	6.232	7.313	5.785
	21	10.085	7.127	9.594	6.837	9.103	6.548	8.612	6.258	8.121	5.968	7.531	5.621
	22	10.131	6.532	9.673	6.325	9.215	6.118	8.757	5.912	8.299	5.705	7.750	5.457
30	23	10.177	5.937	9.752	5.813	9.327	5.689	8.903	5.565	8.478	5.441	7.968	5.292
	24	10.223	5.343	9.831	5.301	9.440	5.260	9.048	5.219	8.656	5.177	8.186	5.128

**R22 MODELS
A SERIES (COOLING ONLY)**

MODEL : ACK 30A / ALC 30C

ID DB°C	ID WB°C	Outdoor DB°C															
		20		25		30		35		40		46		50		54	
		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)	TC(kW)	SC(kW)
20	15	9.725	5.751	9.086	5.187	8.447	4.623	7.807	4.059	7.433	3.708	7.042	3.341	6.738	3.055	6.399	2.737
	16	10.058	5.448	9.383	4.916	8.707	4.384	8.031	3.852	7.646	3.510	7.244	3.154	6.931	2.876	6.583	2.567
24	16	10.058	7.400	9.383	6.868	8.707	6.336	8.031	5.804	7.646	5.463	7.244	5.106	6.931	4.829	6.583	4.519
	17	10.391	7.097	9.679	6.597	8.967	6.096	8.255	5.596	7.859	5.265	7.446	4.919	7.125	4.649	6.766	4.349
	18	10.724	6.793	9.976	6.325	9.227	5.857	8.479	5.389	8.072	5.067	7.648	4.732	7.318	4.470	6.950	4.179
	19	11.057	6.490	10.272	6.054	9.488	5.617	8.703	5.181	8.286	4.869	7.850	4.544	7.511	4.291	7.133	4.009
	20	11.393	6.185	10.594	5.768	9.794	5.351	8.995	4.934	8.564	4.634	8.114	4.321	7.763	4.078	7.373	3.806
28	18	10.724	8.746	9.976	8.278	9.227	7.809	8.479	7.341	8.072	7.020	7.648	6.684	7.318	6.423	6.950	6.131
	19	11.057	8.442	10.272	8.006	9.488	7.570	8.703	7.134	8.286	6.822	7.850	6.497	7.511	6.244	7.133	5.961
	20	11.393	8.137	10.594	7.720	9.794	7.303	8.995	6.887	8.564	6.587	8.114	6.274	7.763	6.030	7.373	5.759
	21	11.730	7.831	10.931	7.425	10.132	7.019	9.333	6.613	8.886	6.327	8.419	6.027	8.055	5.794	7.650	5.535
	22	12.068	7.525	11.269	7.130	10.470	6.735	9.671	6.340	9.207	6.066	8.723	5.781	8.347	5.559	7.927	5.311
	23	12.405	7.220	11.606	6.835	10.808	6.451	10.009	6.067	9.529	5.806	9.028	5.534	8.638	5.323	8.203	5.087
	24	12.742	6.914	11.944	6.540	11.145	6.167	10.347	5.793	9.851	5.546	9.333	5.288	8.930	5.087	8.480	4.863
30	20	11.393	9.114	10.594	8.697	9.794	8.280	8.995	7.863	8.564	7.563	8.114	7.250	7.763	7.007	7.373	6.735
	21	11.730	8.808	10.931	8.402	10.132	7.996	9.333	7.589	8.886	7.303	8.419	7.004	8.055	6.771	7.650	6.511
	22	12.068	8.502	11.269	8.107	10.470	7.711	9.671	7.316	9.207	7.043	8.723	6.757	8.347	6.535	7.927	6.287
	23	12.405	8.196	11.606	7.811	10.808	7.427	10.009	7.043	9.529	6.782	9.028	6.511	8.638	6.299	8.203	6.063
	24	12.742	7.890	11.944	7.516	11.145	7.143	10.347	6.770	9.851	6.522	9.333	6.264	8.930	6.063	8.480	5.839

HIGH AMBIENT

MODEL : ACK 40A / ALC 35C

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	11.168	7.067	10.477	6.411	9.786	5.756	9.095	5.101	8.404	4.446	7.575	3.659
	16	11.314	6.418	10.656	5.829	9.998	5.240	9.340	4.651	8.683	4.061	7.894	3.354
24	16	11.314	8.346	10.656	7.756	9.998	7.167	9.340	6.578	8.683	5.989	7.894	5.281
	17	11.459	7.698	10.834	7.174	10.210	6.651	9.586	6.128	8.962	5.604	8.212	4.976
	18	11.604	7.049	11.013	6.592	10.422	6.135	9.831	5.677	9.240	5.220	8.531	4.671
	19	11.749	6.401	11.191	6.010	10.634	5.618	10.076	5.227	9.519	4.836	8.850	4.366
	20	11.892	5.753	11.356	5.432	10.820	5.110	10.283	4.788	9.747	4.466	9.103	4.080
28	18	11.604	8.977	11.013	8.519	10.422	8.062	9.831	7.605	9.240	7.147	8.531	6.598
	19	11.749	8.328	11.191	7.937	10.634	7.546	10.076	7.154	9.519	6.763	8.850	6.293
	20	11.892	7.681	11.356	7.359	10.820	7.037	10.283	6.715	9.747	6.394	9.103	6.008
	21	12.035	7.033	11.512	6.784	10.988	6.534	10.464	6.284	9.941	6.035	9.313	5.735
	22	12.178	6.386	11.667	6.208	11.156	6.031	10.646	5.853	10.135	5.676	9.522	5.463
	23	12.320	5.738	11.822	5.633	11.325	5.528	10.827	5.422	10.329	5.317	9.731	5.190
30	24	12.463	5.091	11.978	5.058	11.493	5.024	11.008	4.991	10.523	4.958	9.941	4.917
	20	11.892	8.644	11.356	8.323	10.820	8.001	10.283	7.679	9.747	7.357	9.103	6.971
	21	12.035	7.997	11.512	7.747	10.988	7.498	10.464	7.248	9.941	6.998	9.313	6.699
	22	12.178	7.350	11.667	7.172	11.156	6.994	10.646	6.817	10.135	6.639	9.522	6.426
	23	12.320	6.702	11.822	6.597	11.325	6.491	10.827	6.386	10.329	6.280	9.731	6.154
24	12.463	6.055	11.978	6.021	11.493	5.988	11.008	5.955	10.523	5.921	9.941	5.881	

**R22 MODELS
A SERIES (COOLING ONLY)**

MODEL : ACK 40A / ALC 40C

ID DB°C	ID WB°C	Outdoor DB°C															
		20		25		30		35		40		46		50		54	
		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)	TC(kW)	SC(kW)
20	15	11.784	7.575	11.181	7.097	10.578	6.618	9.975	6.140	9.135	5.366	8.291	4.589	7.976	4.299	7.860	4.192
	16	12.321	7.104	11.671	6.682	11.022	6.261	10.372	5.839	9.498	5.091	8.622	4.340	8.294	4.059	8.173	3.955
24	16	12.321	8.922	11.671	8.501	11.022	8.079	10.372	7.658	9.498	6.909	8.622	6.158	8.294	5.878	8.173	5.774
	17	12.857	8.451	12.162	8.086	11.466	7.722	10.770	7.358	9.862	6.634	8.952	5.908	8.612	5.637	8.486	5.537
	18	13.394	7.980	12.652	7.672	11.909	7.365	11.167	7.057	10.226	6.359	9.282	5.659	8.930	5.397	8.799	5.300
	19	13.931	7.508	13.142	7.258	12.353	7.007	11.564	6.757	10.590	6.084	9.612	5.409	9.247	5.157	9.112	5.063
	20	14.468	7.033	13.636	6.809	12.805	6.585	11.973	6.361	10.964	5.722	9.952	5.080	9.574	4.841	9.434	4.752
28	18	13.394	9.798	12.652	9.491	11.909	9.183	11.167	8.876	10.226	8.178	9.282	7.477	8.930	7.216	8.799	7.119
	19	13.931	9.327	13.142	9.076	12.353	8.826	11.564	8.575	10.590	7.903	9.612	7.228	9.247	6.976	9.112	6.882
	20	14.468	8.852	13.636	8.628	12.805	8.404	11.973	8.180	10.964	7.541	9.952	6.899	9.574	6.659	9.434	6.571
	21	15.005	8.375	14.133	8.157	13.261	7.939	12.389	7.721	11.345	7.120	10.298	6.518	9.907	6.293	9.762	6.209
	22	15.542	7.897	14.630	7.686	13.718	7.474	12.806	7.263	11.727	6.700	10.644	6.136	10.240	5.926	10.090	5.848
	23	16.080	7.420	15.127	7.214	14.174	7.009	13.222	6.804	12.108	6.280	10.990	5.755	10.573	5.559	10.418	5.486
30	24	16.617	6.942	15.624	6.743	14.631	6.544	13.638	6.345	12.489	5.860	11.336	5.374	10.906	5.192	10.746	5.125
	20	14.468	9.761	13.636	9.537	12.805	9.313	11.973	9.089	10.964	8.450	9.952	7.808	9.574	7.569	9.434	7.480
	21	15.005	9.284	14.133	9.066	13.261	8.848	12.389	8.631	11.345	8.030	10.298	7.427	9.907	7.202	9.762	7.118
	22	15.542	8.806	14.630	8.595	13.718	8.383	12.806	8.172	11.727	7.610	10.644	7.046	10.240	6.835	10.090	6.757
	23	16.080	8.329	15.127	8.124	14.174	7.918	13.222	7.713	12.108	7.190	10.990	6.664	10.573	6.468	10.418	6.396
	24	16.617	7.852	15.624	7.653	14.631	7.453	13.638	7.254	12.489	6.770	11.336	6.283	10.906	6.102	10.746	6.034
HIGH AMBIENT																	

MODEL : ACK 50A / ALC 50C

ID DB°C	ID WB°C	Outdoor DB°C															
		20		25		30		35		40		46		50		54	
		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)	TC(kW)	SC(kW)
20	15	14.909	9.524	14.048	8.870	13.187	8.216	12.326	7.562	11.614	6.913	10.960	6.318	10.579	5.971	10.242	5.664
	16	15.712	8.766	14.738	8.186	13.763	7.606	12.789	7.026	12.050	6.408	11.372	5.842	10.977	5.512	10.626	5.219
24	16	15.712	10.952	14.738	10.372	13.763	9.792	12.789	9.212	12.050	8.594	11.372	8.028	10.977	7.697	10.626	7.405
	17	16.515	10.194	15.427	9.688	14.340	9.182	13.252	8.676	12.486	8.089	11.784	7.552	11.374	7.238	11.011	6.960
	18	17.319	9.436	16.117	9.004	14.916	8.572	13.715	8.141	12.922	7.585	12.195	7.075	11.771	6.778	11.395	6.515
	19	18.122	8.677	16.807	8.320	15.492	7.963	14.178	7.605	13.358	7.080	12.607	6.599	12.168	6.318	11.780	6.070
	20	18.930	7.918	17.543	7.624	16.156	7.330	14.769	7.036	13.915	6.544	13.133	6.093	12.676	5.830	12.271	5.597
28	18	17.319	11.622	16.117	11.190	14.916	10.758	13.715	10.327	12.922	9.771	12.195	9.261	11.771	8.964	11.395	8.700
	19	18.122	10.863	16.807	10.506	15.492	10.149	14.178	9.791	13.358	9.266	12.607	8.785	12.168	8.504	11.780	8.255
	20	18.930	10.104	17.543	9.810	16.156	9.516	14.769	9.222	13.915	8.730	13.133	8.279	12.676	8.016	12.271	7.783
	21	19.741	9.344	18.310	9.106	16.878	8.868	15.446	8.630	14.553	8.173	13.735	7.753	13.257	7.508	12.834	7.291
	22	20.553	8.583	19.076	8.402	17.600	8.220	16.123	8.039	15.191	7.615	14.337	7.227	13.839	7.000	13.397	6.800
	23	21.364	7.823	19.843	7.698	18.322	7.573	16.801	7.447	15.829	7.058	14.939	6.701	14.420	6.493	13.959	6.308
30	24	22.176	7.063	20.610	6.994	19.044	6.925	17.478	6.856	16.467	6.501	15.541	6.175	15.001	5.985	14.522	5.817
	20	18.930	11.197	17.543	10.903	16.156	10.609	14.769	10.315	13.915	9.823	13.133	9.372	12.676	9.109	12.271	8.876
	21	19.741	10.437	18.310	10.199	16.878	9.961	15.446	9.723	14.553	9.266	13.735	8.846	13.257	8.601	12.834	8.384
	22	20.553	9.676	19.076	9.495	17.600	9.313	16.123	9.132	15.191	8.708	14.337	8.320	13.839	8.093	13.397	7.893
	23	21.364	8.916	19.843	8.791	18.322	8.665	16.801	8.540	15.829	8.151	14.939	7.794	14.420	7.586	13.959	7.401
	24	22.176	8.156	20.610	8.087	19.044	8.018	17.478	7.949	16.467	7.593	15.541	7.268	15.001	7.078	14.522	6.910
HIGH AMBIENT																	

**R22 MODELS
A SERIES (HEATPUMP)**

**MODEL : ACK 20AR / 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	5.860	3.221	5.491	2.877	5.121	2.534	4.752	2.190	4.383	1.846	3.939	1.434
	16	6.059	2.950	5.671	2.612	5.284	2.274	4.896	1.936	4.509	1.597	4.044	1.192
24	16	6.059	4.219	5.671	3.881	5.284	3.543	4.896	3.205	4.509	2.866	4.044	2.461
	17	6.257	3.949	5.851	3.616	5.446	3.283	5.040	2.950	4.635	2.618	4.148	2.218
	18	6.455	3.678	6.032	3.351	5.608	3.023	5.185	2.696	4.761	2.369	4.253	1.976
	19	6.654	3.408	6.212	3.086	5.771	2.764	5.329	2.442	4.887	2.120	4.357	1.734
	20	6.853	3.139	6.403	2.842	5.953	2.545	5.502	2.247	5.052	1.950	4.512	1.593
28	18	6.455	4.947	6.032	4.620	5.608	4.292	5.185	3.965	4.761	3.638	4.253	3.245
	19	6.654	4.677	6.212	4.355	5.771	4.033	5.329	3.711	4.887	3.389	4.357	3.003
	20	6.853	4.408	6.403	4.111	5.953	3.814	5.502	3.516	5.052	3.219	4.512	2.862
	21	7.054	4.142	6.601	3.882	6.148	3.622	5.695	3.362	5.243	3.102	4.699	2.790
	22	7.254	3.875	6.799	3.652	6.344	3.430	5.889	3.207	5.433	2.985	4.887	2.718
	23	7.454	3.608	6.997	3.423	6.539	3.238	6.082	3.053	5.624	2.868	5.075	2.646
30	24	7.655	3.341	7.195	3.194	6.735	3.046	6.275	2.898	5.815	2.751	5.263	2.573
	20	6.853	5.043	6.403	4.746	5.953	4.448	5.502	4.151	5.052	3.854	4.512	3.497
	21	7.054	4.776	6.601	4.516	6.148	4.256	5.695	3.996	5.243	3.736	4.699	3.425
	22	7.254	4.509	6.799	4.287	6.344	4.064	5.889	3.842	5.433	3.619	4.887	3.352
	23	7.454	4.243	6.997	4.058	6.539	3.872	6.082	3.687	5.624	3.502	5.075	3.280
	24	7.655	3.976	7.195	3.828	6.735	3.681	6.275	3.533	5.815	3.385	5.263	3.208

HEATING MODE

ID DB°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	2.597	2.597	3.151	3.151	3.335	3.335	5.366	5.366	6.474	6.474	7.028	7.028	7.582	7.582
17	2.556	2.556	3.094	3.094	3.274	3.274	5.299	5.299	6.299	6.299	6.833	6.833	7.367	7.367
19	2.516	2.516	3.038	3.038	3.213	3.213	5.231	5.231	6.124	6.124	6.637	6.637	7.151	7.151
21	2.475	2.475	2.982	2.982	3.151	3.151	5.164	5.164	5.948	5.948	6.442	6.442	6.935	6.935
23	2.447	2.447	2.929	2.929	3.090	3.090	4.958	4.958	5.773	5.773	6.246	6.246	6.720	6.720
25	2.419	2.419	2.876	2.876	3.028	3.028	4.751	4.751	5.597	5.597	6.051	6.051	6.504	6.504
27	2.390	2.390	2.823	2.823	2.967	2.967	4.545	4.545	5.422	5.422	5.855	5.855	6.289	6.289
FROST REGION														

**R22 MODELS
A SERIES (HEATPUMP)**

**MODEL : ACK 20AR / 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	6.888	3.832	6.407	3.380	5.926	2.929	5.445	2.477	4.964	2.025	4.387	1.484
	16	7.007	3.417	6.527	2.993	6.048	2.570	5.568	2.146	5.088	1.723	4.512	1.214
24	16	7.007	4.892	6.527	4.469	6.048	4.045	5.568	3.622	5.088	3.198	4.512	2.690
	17	7.127	4.478	6.648	4.082	6.169	3.686	5.691	3.291	5.212	2.895	4.637	2.420
	18	7.246	4.063	6.769	3.695	6.291	3.327	5.813	2.960	5.336	2.592	4.762	2.151
	19	7.366	3.648	6.889	3.308	6.413	2.969	5.936	2.629	5.459	2.289	4.888	1.882
	20	7.486	3.236	7.019	2.944	6.551	2.653	6.084	2.362	5.617	2.070	5.056	1.721
28	18	7.246	5.538	6.769	5.171	6.291	4.803	5.813	4.435	5.336	4.068	4.762	3.626
	19	7.366	5.124	6.889	4.784	6.413	4.444	5.936	4.104	5.459	3.765	4.888	3.357
	20	7.486	4.711	7.019	4.420	6.551	4.128	6.084	3.837	5.617	3.546	5.056	3.196
	21	7.607	4.301	7.155	4.071	6.702	3.842	6.250	3.612	5.797	3.382	5.254	3.107
	22	7.728	3.890	7.290	3.722	6.853	3.555	6.415	3.387	5.977	3.219	5.452	3.018
	23	7.849	3.479	7.426	3.373	7.003	3.268	6.580	3.162	6.157	3.056	5.650	2.929
30	24	7.970	3.069	7.562	3.025	7.154	2.981	6.746	2.937	6.337	2.893	5.847	2.840
	20	7.486	5.449	7.019	5.158	6.551	4.866	6.084	4.575	5.617	4.283	5.056	3.934
	21	7.607	5.038	7.155	4.809	6.702	4.579	6.250	4.350	5.797	4.120	5.254	3.845
	22	7.728	4.628	7.290	4.460	6.853	4.292	6.415	4.125	5.977	3.957	5.452	3.756
	23	7.849	4.217	7.426	4.111	7.003	4.005	6.580	3.900	6.157	3.794	5.650	3.667
	24	7.970	3.806	7.562	3.762	7.154	3.718	6.746	3.675	6.337	3.631	5.847	3.578

HEATING MODE

ID DB°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	2.518	2.518	3.154	3.154	3.366	3.366	5.700	5.700	6.973	6.973	7.609	7.609	8.246	8.246
17	2.454	2.454	3.090	3.090	3.302	3.302	5.661	5.661	6.783	6.783	7.397	7.397	8.011	8.011
19	2.390	2.390	3.026	3.026	3.238	3.238	5.622	5.622	6.593	6.593	7.185	7.185	7.777	7.777
21	2.326	2.326	2.962	2.962	3.173	3.173	5.583	5.583	6.402	6.402	6.972	6.972	7.542	7.542
23	2.322	2.322	2.912	2.912	3.109	3.109	5.325	5.325	6.212	6.212	6.760	6.760	7.308	7.308
25	2.318	2.318	2.863	2.863	3.045	3.045	5.067	5.067	6.022	6.022	6.548	6.548	7.073	7.073
27	2.314	2.314	2.814	2.814	2.981	2.981	4.809	4.809	5.832	5.832	6.335	6.335	6.839	6.839
FROST REGION														

**R22 MODELS
A SERIES (HEATPUMP)**

**MODEL : ACK 25AR / 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	8.677	5.285	8.056	4.678	7.435	4.070	6.814	3.463	6.192	2.855	5.447	2.126
	16	8.869	4.973	8.235	4.365	7.600	3.757	6.966	3.149	6.331	2.540	5.569	1.811
24	16	8.869	6.670	8.235	6.062	7.600	5.454	6.966	4.846	6.331	4.238	5.569	3.508
	17	9.062	6.358	8.413	5.749	7.765	5.140	7.117	4.532	6.469	3.923	5.692	3.193
	18	9.254	6.045	8.592	5.436	7.931	4.827	7.269	4.218	6.608	3.609	5.814	2.878
	19	9.446	5.733	8.771	5.123	8.096	4.514	7.421	3.904	6.746	3.294	5.937	2.563
	20	9.640	5.424	8.971	4.843	8.301	4.262	7.631	3.681	6.962	3.100	6.158	2.403
28	18	9.254	7.743	8.592	7.134	7.931	6.524	7.269	5.915	6.608	5.306	5.814	4.575
	19	9.446	7.430	8.771	6.821	8.096	6.211	7.421	5.601	6.746	4.992	5.937	4.260
	20	9.640	7.121	8.971	6.541	8.301	5.960	7.631	5.379	6.962	4.798	6.158	4.101
	21	9.836	6.815	9.184	6.282	8.532	5.750	7.880	5.217	7.229	4.685	6.446	4.046
	22	10.032	6.508	9.398	6.024	8.764	5.540	8.129	5.056	7.495	4.572	6.734	3.991
	23	10.228	6.202	9.611	5.766	8.995	5.330	8.378	4.894	7.762	4.458	7.022	3.935
	24	10.424	5.895	9.825	5.508	9.226	5.120	8.627	4.733	8.029	4.345	7.310	3.880
30	20	9.640	7.970	8.971	7.389	8.301	6.808	7.631	6.227	6.962	5.647	6.158	4.949
	21	9.836	7.664	9.184	7.131	8.532	6.599	7.880	6.066	7.229	5.533	6.446	4.894
	22	10.032	7.357	9.398	6.873	8.764	6.389	8.129	5.904	7.495	5.420	6.734	4.839
	23	10.228	7.051	9.611	6.615	8.995	6.179	8.378	5.743	7.762	5.307	7.022	4.784
	24	10.424	6.744	9.825	6.357	9.226	5.969	8.627	5.582	8.029	5.194	7.310	4.729

HEATING MODE

ID DB°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	3.815	3.815	4.639	4.639	4.914	4.914	7.936	7.936	9.584	9.584	10.408	10.408	11.232	11.232
17	3.753	3.753	4.556	4.556	4.823	4.823	7.617	7.617	9.324	9.324	10.119	10.119	10.913	10.913
19	3.691	3.691	4.472	4.472	4.733	4.733	7.297	7.297	9.065	9.065	9.829	9.829	10.594	10.594
21	3.629	3.629	4.389	4.389	4.642	4.642	6.978	6.978	8.805	8.805	9.540	9.540	10.274	10.274
23	3.590	3.590	4.311	4.311	4.551	4.551	6.904	6.904	8.545	8.545	9.250	9.250	9.955	9.955
25	3.551	3.551	4.233	4.233	4.461	4.461	6.829	6.829	8.286	8.286	8.961	8.961	9.636	9.636
27	3.512	3.512	4.155	4.155	4.370	4.370	6.754	6.754	8.026	8.026	8.671	8.671	9.316	9.316
FROST REGION														

**R22 MODELS
A SERIES (HEATPUMP)**

**MODEL : ACK 30AR / 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	9.809	5.821	9.114	5.150	8.419	4.480	7.724	3.810	7.029	3.140	6.196	2.336
	16	9.855	5.223	9.194	4.609	8.534	3.995	7.873	3.381	7.213	2.768	6.420	2.031
24	16	9.855	7.178	9.194	6.564	8.534	5.951	7.873	5.337	7.213	4.723	6.420	3.987
	17	9.901	6.580	9.274	6.023	8.648	5.465	8.022	4.908	7.396	4.351	6.644	3.682
	18	9.947	5.982	9.355	5.481	8.763	4.980	8.171	4.479	7.579	3.978	6.868	3.377
	19	9.993	5.384	9.435	4.940	8.877	4.495	8.320	4.050	7.762	3.606	7.092	3.072
	20	10.039	4.788	9.515	4.416	8.991	4.043	8.466	3.671	7.942	3.299	7.313	2.852
28	18	9.947	7.938	9.355	7.437	8.763	6.936	8.171	6.435	7.579	5.934	6.868	5.333
	19	9.993	7.340	9.435	6.895	8.877	6.451	8.320	6.006	7.762	5.561	7.092	5.028
	20	10.039	6.744	9.515	6.371	8.991	5.999	8.466	5.627	7.942	5.254	7.313	4.807
	21	10.085	6.149	9.594	5.859	9.103	5.570	8.612	5.280	8.121	4.991	7.531	4.643
	22	10.131	5.554	9.673	5.347	9.215	5.141	8.757	4.934	8.299	4.727	7.750	4.479
	23	10.177	4.960	9.752	4.835	9.327	4.711	8.903	4.587	8.478	4.463	7.968	4.314
30	20	10.039	7.722	9.515	7.349	8.991	6.977	8.466	6.604	7.942	6.232	7.313	5.785
	21	10.085	7.127	9.594	6.837	9.103	6.548	8.612	6.258	8.121	5.968	7.531	5.621
	22	10.131	6.532	9.673	6.325	9.215	6.118	8.757	5.912	8.299	5.705	7.750	5.457
	23	10.177	5.937	9.752	5.813	9.327	5.689	8.903	5.565	8.478	5.441	7.968	5.292
	24	10.223	5.343	9.831	5.301	9.440	5.260	9.048	5.219	8.656	5.177	8.186	5.128

HEATING MODE

ID DB°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	3.596	3.596	4.467	4.467	4.758	4.758	7.954	7.954	9.697	9.697	10.568	10.568	11.440	11.440
17	3.514	3.514	4.379	4.379	4.668	4.668	7.908	7.908	9.433	9.433	10.274	10.274	11.114	11.114
19	3.432	3.432	4.291	4.291	4.578	4.578	7.862	7.862	9.169	9.169	9.979	9.979	10.789	10.789
21	3.350	3.350	4.203	4.203	4.488	4.488	7.816	7.816	8.905	8.905	9.684	9.684	10.464	10.464
23	3.335	3.335	4.132	4.132	4.398	4.398	7.448	7.448	8.641	8.641	9.390	9.390	10.138	10.138
25	3.321	3.321	4.061	4.061	4.308	4.308	7.081	7.081	8.377	8.377	9.095	9.095	9.813	9.813
27	3.306	3.306	3.990	3.990	4.218	4.218	6.713	6.713	8.113	8.113	8.800	8.800	9.488	9.488
FROST REGION														

**R22 MODELS
A SERIES (HEATPUMP)**

**MODEL : ACK 30AR / ALC 30CR
COOLING MODE**

ID DB°C	ID WB°C	Outdoor DB°C															
		20		25		30		35		40		46		50		54	
		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)	TC(kW)	SC(kW)
20	15	9.260	5.292	8.724	4.842	8.187	4.393	7.651	3.944	7.284	3.601	6.901	3.244	6.603	2.965	6.271	2.655
	16	9.592	4.929	9.031	4.535	8.471	4.141	7.910	3.747	7.531	3.414	7.135	3.066	6.827	2.796	6.483	2.494
24	16	9.592	6.840	9.031	6.446	8.471	6.053	7.910	5.659	7.531	5.326	7.135	4.978	6.827	4.707	6.483	4.405
	17	9.923	6.478	9.339	6.139	8.754	5.801	8.170	5.462	7.778	5.138	7.369	4.800	7.051	4.537	6.696	4.244
	18	10.255	6.115	9.646	5.832	9.038	5.549	8.429	5.265	8.025	4.951	7.603	4.623	7.275	4.368	6.909	4.083
	19	10.586	5.752	9.954	5.524	9.321	5.296	8.689	5.069	8.272	4.764	7.837	4.446	7.499	4.198	7.121	3.922
	20	10.918	5.386	10.268	5.183	9.618	4.980	8.968	4.777	8.538	4.486	8.089	4.183	7.740	3.946	7.350	3.683
28	18	10.255	8.026	9.646	7.743	9.038	7.460	8.429	7.177	8.025	6.863	7.603	6.534	7.275	6.279	6.909	5.994
	19	10.586	7.664	9.954	7.436	9.321	7.208	8.689	6.980	8.272	6.675	7.837	6.357	7.499	6.109	7.121	5.833
	20	10.918	7.297	10.268	7.094	9.618	6.892	8.968	6.689	8.538	6.398	8.089	6.094	7.740	5.858	7.350	5.594
	21	11.251	6.928	10.588	6.730	9.924	6.532	9.261	6.334	8.817	6.060	8.353	5.774	7.992	5.552	7.590	5.304
	22	11.584	6.560	10.907	6.366	10.230	6.173	9.553	5.980	9.095	5.723	8.617	5.455	8.245	5.246	7.830	5.013
	23	11.917	6.191	11.226	6.002	10.536	5.814	9.846	5.625	9.374	5.385	8.881	5.135	8.497	4.940	8.070	4.723
30	20	10.918	8.253	10.268	8.050	9.618	7.847	8.968	7.644	8.538	7.354	8.089	7.050	7.740	6.814	7.350	6.550
	21	11.251	7.884	10.588	7.686	9.924	7.488	9.261	7.290	8.817	7.016	8.353	6.730	7.992	6.508	7.590	6.259
	22	11.584	7.515	10.907	7.322	10.230	7.129	9.553	6.936	9.095	6.679	8.617	6.410	8.245	6.202	7.830	5.969
	23	11.917	7.147	11.226	6.958	10.536	6.770	9.846	6.581	9.374	6.341	8.881	6.091	8.497	5.896	8.070	5.678
	24	12.249	6.778	11.546	6.594	10.842	6.410	10.138	6.227	9.652	6.004	9.145	5.771	8.750	5.590	8.310	5.388
HIGH AMBIENT																	

HEATING MODE

ID DB°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	5.370	5.370	6.196	6.196	6.471	6.471	9.500	9.500	11.152	11.152	11.978	11.978	12.804	12.804
17	5.365	5.365	6.111	6.111	6.360	6.360	9.362	9.362	10.854	10.854	11.647	11.647	12.440	12.440
19	5.360	5.360	6.026	6.026	6.248	6.248	9.224	9.224	10.556	10.556	11.316	11.316	12.076	12.076
21	5.355	5.355	5.941	5.941	6.136	6.136	9.086	9.086	10.258	10.258	10.985	10.985	11.712	11.712
23	5.221	5.221	5.824	5.824	6.025	6.025	8.754	8.754	9.960	9.960	10.654	10.654	11.348	11.348
25	5.087	5.087	5.707	5.707	5.913	5.913	8.423	8.423	9.662	9.662	10.323	10.323	10.984	10.984
27	4.954	4.954	5.590	5.590	5.802	5.802	8.092	8.092	9.364	9.364	9.992	9.992	10.621	10.621
FROST REGION														

**R22 MODELS
A SERIES (HEATPUMP)**

**MODEL : ACK 40AR / ALC 35CR
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	11.168	7.067	10.477	6.411	9.786	5.756	9.095	5.101	8.404	4.446	7.575	3.659
	16	11.314	6.418	10.656	5.829	9.998	5.240	9.340	4.651	8.683	4.061	7.894	3.354
24	16	11.314	8.346	10.656	7.756	9.998	7.167	9.340	6.578	8.683	5.989	7.894	5.281
	17	11.459	7.698	10.834	7.174	10.210	6.651	9.586	6.128	8.962	5.604	8.212	4.976
	18	11.604	7.049	11.013	6.592	10.422	6.135	9.831	5.677	9.240	5.220	8.531	4.671
	19	11.749	6.401	11.191	6.010	10.634	5.618	10.076	5.227	9.519	4.836	8.850	4.366
	20	11.892	5.753	11.356	5.432	10.820	5.110	10.283	4.788	9.747	4.466	9.103	4.080
28	18	11.604	8.977	11.013	8.519	10.422	8.062	9.831	7.605	9.240	7.147	8.531	6.598
	19	11.749	8.328	11.191	7.937	10.634	7.546	10.076	7.154	9.519	6.763	8.850	6.293
	20	11.892	7.681	11.356	7.359	10.820	7.037	10.283	6.715	9.747	6.394	9.103	6.008
	21	12.035	7.033	11.512	6.784	10.988	6.534	10.464	6.284	9.941	6.035	9.313	5.735
	22	12.178	6.386	11.667	6.208	11.156	6.031	10.646	5.853	10.135	5.676	9.522	5.463
	23	12.320	5.738	11.822	5.633	11.325	5.528	10.827	5.422	10.329	5.317	9.731	5.190
30	24	12.463	5.091	11.978	5.058	11.493	5.024	11.008	4.991	10.523	4.958	9.941	4.917
	20	11.892	8.644	11.356	8.323	10.820	8.001	10.283	7.679	9.747	7.357	9.103	6.971
	21	12.035	7.997	11.512	7.747	10.988	7.498	10.464	7.248	9.941	6.998	9.313	6.699
	22	12.178	7.350	11.667	7.172	11.156	6.994	10.646	6.817	10.135	6.639	9.522	6.426
	23	12.320	6.702	11.822	6.597	11.325	6.491	10.827	6.386	10.329	6.280	9.731	6.154
	24	12.463	6.055	11.978	6.021	11.493	5.988	11.008	5.955	10.523	5.921	9.941	5.881

HEATING MODE

ID DB°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	4.651	4.651	5.850	5.850	6.249	6.249	10.644	10.644	13.041	13.041	14.239	14.239	15.438	15.438
17	4.527	4.527	5.729	5.729	6.129	6.129	10.445	10.445	12.685	12.685	13.842	13.842	14.999	14.999
19	4.404	4.404	5.608	5.608	6.009	6.009	10.247	10.247	12.329	12.329	13.445	13.445	14.560	14.560
21	4.280	4.280	5.487	5.487	5.890	5.890	10.049	10.049	11.974	11.974	13.047	13.047	14.121	14.121
23	4.278	4.278	5.397	5.397	5.770	5.770	9.698	9.698	11.618	11.618	12.650	12.650	13.682	13.682
25	4.276	4.276	5.306	5.306	5.650	5.650	9.347	9.347	11.262	11.262	12.252	12.252	13.243	13.243
27	4.274	4.274	5.216	5.216	5.530	5.530	8.997	8.997	10.906	10.906	11.855	11.855	12.804	12.804
FROST REGION														

**R22 MODELS
A SERIES (HEATPUMP)**

**MODEL : ACK 40AR / ALC 40CR
COOLING MODE**

ID DB°C	ID WB°C	Outdoor DB°C															
		20		25		30		35		40		46		50		54	
		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)	TC(kW)	SC(kW)
20	15	12.306	7.737	11.588	7.148	10.869	6.560	10.151	5.971	9.295	5.172	8.437	4.371	8.117	4.071	7.998	3.960
	16	12.846	7.312	12.067	6.782	11.287	6.251	10.508	5.721	9.623	4.943	8.734	4.162	8.403	3.871	8.279	3.762
24	16	12.846	9.410	12.067	8.879	11.287	8.349	10.508	7.818	9.623	7.040	8.734	6.259	8.403	5.968	8.279	5.860
	17	13.386	8.985	12.546	8.513	11.705	8.040	10.865	7.567	9.950	6.810	9.031	6.051	8.688	5.767	8.561	5.662
	18	13.925	8.561	13.024	8.146	12.124	7.731	11.223	7.316	10.277	6.581	9.328	5.842	8.974	5.567	8.843	5.464
	19	14.465	8.137	13.503	7.780	12.542	7.423	11.580	7.066	10.605	6.351	9.626	5.634	9.260	5.366	9.124	5.267
	20	15.007	7.709	14.006	7.375	13.005	7.041	12.004	6.707	10.993	6.022	9.978	5.336	9.599	5.079	9.458	4.984
28	18	13.925	10.659	13.024	10.244	12.124	9.829	11.223	9.414	10.277	8.678	9.328	7.940	8.974	7.664	8.843	7.562
	19	14.465	10.234	13.503	9.877	12.542	9.520	11.580	9.163	10.605	8.448	9.626	7.731	9.260	7.464	9.124	7.364
	20	15.007	9.806	14.006	9.472	13.005	9.138	12.004	8.804	10.993	8.120	9.978	7.433	9.599	7.177	9.458	7.081
	21	15.551	9.375	14.525	9.041	13.499	8.707	12.473	8.373	11.422	7.725	10.367	7.075	9.974	6.832	9.827	6.742
	22	16.095	8.944	15.044	8.610	13.992	8.276	12.941	7.942	11.851	7.331	10.757	6.717	10.348	6.488	10.196	6.403
	23	16.639	8.513	15.562	8.179	14.486	7.845	13.409	7.512	12.279	6.936	11.146	6.359	10.723	6.143	10.565	6.063
30	20	15.007	10.855	14.006	10.521	13.005	10.187	12.004	9.853	10.993	9.168	9.978	8.482	9.599	8.225	9.458	8.130
	21	15.551	10.424	14.525	10.090	13.499	9.756	12.473	9.422	11.422	8.774	10.367	8.124	9.974	7.881	9.827	7.791
	22	16.095	9.992	15.044	9.659	13.992	9.325	12.941	8.991	11.851	8.379	10.757	7.765	10.348	7.536	10.196	7.451
	23	16.639	9.561	15.562	9.228	14.486	8.894	13.409	8.560	12.279	7.985	11.146	7.407	10.723	7.192	10.565	7.112
	24	17.183	9.130	16.081	8.797	14.979	8.463	13.878	8.130	12.708	7.590	11.535	7.049	11.097	6.847	10.934	6.772

HIGH AMBIENT

HEATING MODE

ID DB°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	6.763	6.763	7.974	7.974	8.377	8.377	12.815	12.815	15.236	15.236	16.447	16.447	17.657	17.657
17	6.715	6.715	7.850	7.850	8.228	8.228	12.549	12.549	14.827	14.827	15.991	15.991	17.155	17.155
19	6.666	6.666	7.726	7.726	8.080	8.080	12.283	12.283	14.417	14.417	15.535	15.535	16.654	16.654
21	6.618	6.618	7.603	7.603	7.931	7.931	12.016	12.016	14.007	14.007	15.079	15.079	16.152	16.152
23	6.490	6.490	7.459	7.459	7.782	7.782	11.645	11.645	13.597	13.597	14.624	14.624	15.650	15.650
25	6.361	6.361	7.315	7.315	7.633	7.633	11.273	11.273	13.188	13.188	14.168	14.168	15.148	15.148
27	6.233	6.233	7.172	7.172	7.485	7.485	10.902	10.902	12.778	12.778	13.712	13.712	14.646	14.646

FROST REGION

**R22 MODELS
A SERIES (HEATPUMP)**

**MODEL : ACK 50AR / ALC 50CR
COOLING MODE**

ID DB°C	ID WB°C	Outdoor DB°C															
		20		25		30		35		40		46		50		54	
		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)	TC(kW)	SC(kW)
20	15	14.909	9.524	14.048	8.870	13.187	8.216	12.326	7.562	11.614	6.913	10.960	6.318	10.579	5.971	10.242	5.664
	16	15.712	8.766	14.738	8.186	13.763	7.606	12.789	7.026	12.050	6.408	11.372	5.842	10.977	5.512	10.626	5.219
24	16	15.712	10.952	14.738	10.372	13.763	9.792	12.789	9.212	12.050	8.594	11.372	8.028	10.977	7.697	10.626	7.405
	17	16.515	10.194	15.427	9.688	14.340	9.182	13.252	8.676	12.486	8.089	11.784	7.552	11.374	7.238	11.011	6.960
	18	17.319	9.436	16.117	9.004	14.916	8.572	13.715	8.141	12.922	7.585	12.195	7.075	11.771	6.778	11.395	6.515
	19	18.122	8.677	16.807	8.320	15.492	7.963	14.178	7.605	13.358	7.080	12.607	6.599	12.168	6.318	11.780	6.070
	20	18.930	7.918	17.543	7.624	16.156	7.330	14.769	7.036	13.915	6.544	13.133	6.093	12.676	5.830	12.271	5.597
28	18	17.319	11.622	16.117	11.190	14.916	10.758	13.715	10.327	12.922	9.771	12.195	9.261	11.771	8.964	11.395	8.700
	19	18.122	10.863	16.807	10.506	15.492	10.149	14.178	9.791	13.358	9.266	12.607	8.785	12.168	8.504	11.780	8.255
	20	18.930	10.104	17.543	9.810	16.156	9.516	14.769	9.222	13.915	8.730	13.133	8.279	12.676	8.016	12.271	7.783
	21	19.741	9.344	18.310	9.106	16.878	8.868	15.446	8.630	14.553	8.173	13.735	7.753	13.257	7.508	12.834	7.291
	22	20.553	8.583	19.076	8.402	17.600	8.220	16.123	8.039	15.191	7.615	14.337	7.227	13.839	7.000	13.397	6.800
	23	21.364	7.823	19.843	7.698	18.322	7.573	16.801	7.447	15.829	7.058	14.939	6.701	14.420	6.493	13.959	6.308
30	20	18.930	11.197	17.543	10.903	16.156	10.609	14.769	10.315	13.915	9.823	13.133	9.372	12.676	9.109	12.271	8.876
	21	19.741	10.437	18.310	10.199	16.878	9.961	15.446	9.723	14.553	9.266	13.735	8.846	13.257	8.601	12.834	8.384
	22	20.553	9.676	19.076	9.495	17.600	9.313	16.123	9.132	15.191	8.708	14.337	8.320	13.839	8.093	13.397	7.893
	23	21.364	8.916	19.843	8.791	18.322	8.665	16.801	8.540	15.829	8.151	14.939	7.794	14.420	7.586	13.959	7.401
	24	22.176	8.156	20.610	8.087	19.044	8.018	17.478	7.949	16.467	7.593	15.541	7.268	15.001	7.078	14.522	6.910

HIGH AMBIENT

HEATING MODE

ID DB°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	6.466	6.466	8.125	8.125	8.679	8.679	14.764	14.764	18.084	18.084	19.743	19.743	21.403	21.403
17	6.295	6.295	7.958	7.958	8.512	8.512	14.495	14.495	17.590	17.590	19.192	19.192	20.794	20.794
19	6.125	6.125	7.791	7.791	8.346	8.346	14.226	14.226	17.097	17.097	18.641	18.641	20.185	20.185
21	5.955	5.955	7.623	7.623	8.180	8.180	13.956	13.956	16.604	16.604	18.090	18.090	19.577	19.577
23	5.951	5.951	7.498	7.498	8.013	8.013	13.464	13.464	16.110	16.110	17.539	17.539	18.968	18.968
25	5.946	5.946	7.372	7.372	7.847	7.847	12.972	12.972	15.617	15.617	16.988	16.988	18.359	18.359
27	5.942	5.942	7.246	7.246	7.681	7.681	12.480	12.480	15.124	15.124	16.437	16.437	17.751	17.751

FROST REGION

**R22 MODELS
B SERIES (COOLING ONLY)**

**MODEL : ACK 15B / ALC 150C
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	4.179	2.549	3.911	2.297	3.642	2.045	3.374	1.793	3.105	1.541	2.783	1.238
	16	4.218	2.331	3.965	2.108	3.711	1.885	3.457	1.663	3.203	1.440	2.899	1.173
24	16	4.218	3.133	3.965	2.910	3.711	2.687	3.457	2.465	3.203	2.242	2.899	1.975
	17	4.258	2.914	4.019	2.721	3.780	2.528	3.540	2.335	3.301	2.141	3.014	1.909
	18	4.297	2.696	4.073	2.532	3.848	2.368	3.624	2.205	3.399	2.041	3.130	1.844
	19	4.337	2.478	4.127	2.343	3.917	2.209	3.707	2.074	3.497	1.940	3.246	1.778
	20	4.376	2.259	4.177	2.148	3.977	2.036	3.778	1.924	3.578	1.813	3.339	1.679
28	18	4.297	3.498	4.073	3.334	3.848	3.170	3.624	3.006	3.399	2.843	3.130	2.646
	19	4.337	3.280	4.127	3.145	3.917	3.011	3.707	2.876	3.497	2.742	3.246	2.580
	20	4.376	3.061	4.177	2.949	3.977	2.838	3.778	2.726	3.578	2.615	3.339	2.481
	21	4.415	2.841	4.223	2.749	4.031	2.656	3.840	2.563	3.648	2.471	3.418	2.359
	22	4.453	2.622	4.269	2.548	4.085	2.474	3.902	2.400	3.718	2.326	3.497	2.237
	23	4.492	2.403	4.316	2.347	4.140	2.292	3.963	2.237	3.787	2.182	3.576	2.116
30	20	4.376	3.462	4.177	3.350	3.977	3.239	3.778	3.127	3.578	3.016	3.339	2.882
	21	4.415	3.242	4.223	3.150	4.031	3.057	3.840	2.964	3.648	2.871	3.418	2.760
	22	4.453	3.023	4.269	2.949	4.085	2.875	3.902	2.801	3.718	2.727	3.497	2.638
	23	4.492	2.803	4.316	2.748	4.140	2.693	3.963	2.638	3.787	2.583	3.576	2.516
	24	4.531	2.584	4.362	2.548	4.194	2.511	4.025	2.475	3.857	2.438	3.655	2.395

MODEL : ACK 20B / ALC 20C

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	5.590	3.670	5.320	3.462	5.050	3.254	4.780	3.045	4.510	2.837	4.186	2.587
	16	5.890	3.377	5.589	3.194	5.287	3.011	4.986	2.828	4.684	2.645	4.323	2.426
24	16	5.890	4.142	5.589	3.959	5.287	3.777	4.986	3.594	4.684	3.411	4.323	3.191
	17	6.190	3.849	5.857	3.691	5.524	3.534	5.191	3.376	4.859	3.219	4.459	3.030
	18	6.489	3.556	6.125	3.423	5.761	3.291	5.397	3.159	5.033	3.027	4.596	2.868
	19	6.789	3.262	6.393	3.155	5.998	3.049	5.602	2.942	5.207	2.835	4.732	2.707
	20	7.089	2.969	6.665	2.884	6.242	2.799	5.819	2.714	5.395	2.629	4.887	2.528
28	18	6.489	4.321	6.125	4.189	5.761	4.057	5.397	3.925	5.033	3.792	4.596	3.634
	19	6.789	4.028	6.393	3.921	5.998	3.814	5.602	3.707	5.207	3.601	4.732	3.472
	20	7.089	3.734	6.665	3.649	6.242	3.564	5.819	3.480	5.395	3.395	4.887	3.293
	21	7.389	3.440	6.940	3.375	6.491	3.310	6.042	3.245	5.593	3.180	5.054	3.102
	22	7.689	3.146	7.215	3.101	6.740	3.055	6.265	3.010	5.790	2.965	5.221	2.911
	23	7.990	2.852	7.489	2.826	6.989	2.801	6.488	2.775	5.988	2.750	5.387	2.719
30	20	7.089	4.117	6.665	4.032	6.242	3.947	5.819	3.862	5.395	3.778	4.887	3.676
	21	7.389	3.823	6.940	3.758	6.491	3.693	6.042	3.628	5.593	3.563	5.054	3.485
	22	7.689	3.529	7.215	3.483	6.740	3.438	6.265	3.393	5.790	3.348	5.221	3.293
	23	7.990	3.235	7.489	3.209	6.989	3.184	6.488	3.158	5.988	3.133	5.387	3.102
	24	8.290	2.941	7.764	2.935	7.238	2.929	6.712	2.923	6.185	2.918	5.554	2.911

**R22 MODELS
B SERIES (COOLING ONLY)**

MODEL : ACK 25A / ALC 25C

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	7.446	5.195	7.012	4.816	6.579	4.437	6.145	4.058	5.711	3.679	5.191	3.224
	16	7.676	4.778	7.233	4.439	6.790	4.100	6.346	3.761	5.903	3.422	5.371	3.016
24	16	7.676	5.698	7.233	5.359	6.790	5.020	6.346	4.681	5.903	4.342	5.371	3.936
	17	7.907	5.280	7.454	4.981	7.001	4.683	6.548	4.384	6.095	4.085	5.552	3.727
	18	8.137	4.863	7.675	4.604	7.212	4.345	6.750	4.087	6.287	3.828	5.732	3.518
	19	8.368	4.445	7.895	4.226	7.423	4.008	6.951	3.790	6.479	3.571	5.912	3.309
	20	8.598	4.027	8.118	3.849	7.637	3.671	7.157	3.494	6.677	3.316	6.100	3.102
28	18	8.137	5.783	7.675	5.524	7.212	5.265	6.750	5.007	6.287	4.748	5.732	4.438
	19	8.368	5.365	7.895	5.146	7.423	4.928	6.951	4.710	6.479	4.491	5.912	4.229
	20	8.598	4.947	8.118	4.769	7.637	4.591	7.157	4.414	6.677	4.236	6.100	4.022
	21	8.829	4.530	8.341	4.393	7.853	4.255	7.366	4.118	6.878	3.981	6.292	3.817
	22	9.060	4.112	8.565	4.016	8.070	3.919	7.574	3.823	7.079	3.727	6.485	3.611
	23	9.291	3.695	8.788	3.639	8.286	3.583	7.783	3.528	7.281	3.472	6.678	3.406
	24	9.521	3.277	9.011	3.262	8.502	3.247	7.992	3.233	7.482	3.218	6.870	3.200
30	20	8.598	5.407	8.118	5.229	7.637	5.051	7.157	4.874	6.677	4.696	6.100	4.482
	21	8.829	4.990	8.341	4.853	7.853	4.715	7.366	4.578	6.878	4.441	6.292	4.277
	22	9.060	4.572	8.565	4.476	8.070	4.379	7.574	4.283	7.079	4.187	6.485	4.071
	23	9.291	4.155	8.788	4.099	8.286	4.043	7.783	3.988	7.281	3.932	6.678	3.866
	24	9.521	3.737	9.011	3.722	8.502	3.707	7.992	3.693	7.482	3.678	6.870	3.660

**R22 MODELS
B SERIES (HEAT PUMP)**

**MODEL : ACK 15BR / ALC 15CR
COOLING ONLY**

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	4.179	2.549	3.911	2.297	3.642	2.045	3.374	1.793	3.105	1.541	2.783	1.238
	16	4.218	2.331	3.965	2.108	3.711	1.885	3.457	1.663	3.203	1.440	2.899	1.173
24	16	4.218	3.133	3.965	2.910	3.711	2.687	3.457	2.465	3.203	2.242	2.899	1.975
	17	4.258	2.914	4.019	2.721	3.780	2.528	3.540	2.335	3.301	2.141	3.014	1.909
	18	4.297	2.696	4.073	2.532	3.848	2.368	3.624	2.205	3.399	2.041	3.130	1.844
	19	4.337	2.478	4.127	2.343	3.917	2.209	3.707	2.074	3.497	1.940	3.246	1.778
	20	4.376	2.259	4.177	2.148	3.977	2.036	3.778	1.924	3.578	1.813	3.339	1.679
28	18	4.297	3.498	4.073	3.334	3.848	3.170	3.624	3.006	3.399	2.843	3.130	2.646
	19	4.337	3.280	4.127	3.145	3.917	3.011	3.707	2.876	3.497	2.742	3.246	2.580
	20	4.376	3.061	4.177	2.949	3.977	2.838	3.778	2.726	3.578	2.615	3.339	2.481
	21	4.415	2.841	4.223	2.749	4.031	2.656	3.840	2.563	3.648	2.471	3.418	2.359
	22	4.453	2.622	4.269	2.548	4.085	2.474	3.902	2.400	3.718	2.326	3.497	2.237
	23	4.492	2.403	4.316	2.347	4.140	2.292	3.963	2.237	3.787	2.182	3.576	2.116
30	20	4.376	3.462	4.177	3.350	3.977	3.239	3.778	3.127	3.578	3.016	3.339	2.882
	21	4.415	3.242	4.223	3.150	4.031	3.057	3.840	2.964	3.648	2.871	3.418	2.760
	22	4.453	3.023	4.269	2.949	4.085	2.875	3.902	2.801	3.718	2.727	3.497	2.638
	23	4.492	2.803	4.316	2.748	4.140	2.693	3.963	2.638	3.787	2.583	3.576	2.516
	24	4.531	2.584	4.362	2.548	4.194	2.511	4.025	2.475	3.857	2.438	3.655	2.395

HEATING MODE

ID DB°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	1.493	1.493	1.873	1.873	1.999	1.999	3.392	3.392	4.152	4.152	4.532	4.532	4.912	4.912
17	1.454	1.454	1.834	1.834	1.961	1.961	3.378	3.378	4.039	4.039	4.406	4.406	4.773	4.773
19	1.416	1.416	1.796	1.796	1.923	1.923	3.364	3.364	3.926	3.926	4.279	4.279	4.633	4.633
21	1.377	1.377	1.758	1.758	1.885	1.885	3.350	3.350	3.813	3.813	4.153	4.153	4.493	4.493
23	1.375	1.375	1.729	1.729	1.846	1.846	3.186	3.186	3.699	3.699	4.026	4.026	4.353	4.353
25	1.374	1.374	1.699	1.699	1.808	1.808	3.023	3.023	3.586	3.586	3.900	3.900	4.214	4.214
27	1.372	1.372	1.670	1.670	1.770	1.770	2.860	2.860	3.473	3.473	3.773	3.773	4.074	4.074
FROST REGION														

**R22 MODELS
B SERIES (HEAT PUMP)**

**MODEL : ACK 20BR / 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	5.590	3.670	5.320	3.462	5.050	3.254	4.780	3.045	4.510	2.837	4.186	2.587
	16	5.890	3.377	5.589	3.194	5.287	3.011	4.986	2.828	4.684	2.645	4.323	2.426
24	16	5.890	4.142	5.589	3.959	5.287	3.777	4.986	3.594	4.684	3.411	4.323	3.191
	17	6.190	3.849	5.857	3.691	5.524	3.534	5.191	3.376	4.859	3.219	4.459	3.030
	18	6.489	3.556	6.125	3.423	5.761	3.291	5.397	3.159	5.033	3.027	4.596	2.868
	19	6.789	3.262	6.393	3.155	5.998	3.049	5.602	2.942	5.207	2.835	4.732	2.707
	20	7.089	2.969	6.665	2.884	6.242	2.799	5.819	2.714	5.395	2.629	4.887	2.528
28	18	6.489	4.321	6.125	4.189	5.761	4.057	5.397	3.925	5.033	3.792	4.596	3.634
	19	6.789	4.028	6.393	3.921	5.998	3.814	5.602	3.707	5.207	3.601	4.732	3.472
	20	7.089	3.734	6.665	3.649	6.242	3.564	5.819	3.480	5.395	3.395	4.887	3.293
	21	7.389	3.440	6.940	3.375	6.491	3.310	6.042	3.245	5.593	3.180	5.054	3.102
	22	7.689	3.146	7.215	3.101	6.740	3.055	6.265	3.010	5.790	2.965	5.221	2.911
	23	7.990	2.852	7.489	2.826	6.989	2.801	6.488	2.775	5.988	2.750	5.387	2.719
30	20	7.089	4.117	6.665	4.032	6.242	3.947	5.819	3.862	5.395	3.778	4.887	3.676
	21	7.389	3.823	6.940	3.758	6.491	3.693	6.042	3.628	5.593	3.563	5.054	3.485
	22	7.689	3.529	7.215	3.483	6.740	3.438	6.265	3.393	5.790	3.348	5.221	3.293
	23	7.990	3.235	7.489	3.209	6.989	3.184	6.488	3.158	5.988	3.133	5.387	3.102
	24	8.290	2.941	7.764	2.935	7.238	2.929	6.712	2.923	6.185	2.918	5.554	2.911

HEATING MODE

ID DB°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	2.518	2.518	3.154	3.154	3.366	3.366	5.700	5.700	6.973	6.973	7.609	7.609	8.246	8.246
17	2.454	2.454	3.090	3.090	3.302	3.302	5.614	5.614	6.783	6.783	7.397	7.397	8.011	8.011
19	2.390	2.390	3.026	3.026	3.238	3.238	5.529	5.529	6.593	6.593	7.185	7.185	7.777	7.777
21	2.326	2.326	2.962	2.962	3.173	3.173	5.443	5.443	6.402	6.402	6.972	6.972	7.542	7.542
23	2.322	2.322	2.912	2.912	3.109	3.109	5.234	5.234	6.212	6.212	6.760	6.760	7.308	7.308
25	2.318	2.318	2.863	2.863	3.045	3.045	5.025	5.025	6.022	6.022	6.548	6.548	7.073	7.073
27	2.314	2.314	2.814	2.814	2.981	2.981	4.816	4.816	5.832	5.832	6.335	6.335	6.839	6.839
FROST REGION														

**R22 MODELS
B SERIES (HEAT PUMP)**

**MODEL : ACK 25BR / 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	7.446	5.195	7.012	4.816	6.579	4.437	6.145	4.058	5.711	3.679	5.191	3.224
	16	7.676	4.778	7.233	4.439	6.790	4.100	6.346	3.761	5.903	3.422	5.371	3.016
24	16	7.676	5.698	7.233	5.359	6.790	5.020	6.346	4.681	5.903	4.342	5.371	3.936
	17	7.907	5.280	7.454	4.981	7.001	4.683	6.548	4.384	6.095	4.085	5.552	3.727
	18	8.137	4.863	7.675	4.604	7.212	4.345	6.750	4.087	6.287	3.828	5.732	3.518
	19	8.368	4.445	7.895	4.226	7.423	4.008	6.951	3.790	6.479	3.571	5.912	3.309
	20	8.598	4.027	8.118	3.849	7.637	3.671	7.157	3.494	6.677	3.316	6.100	3.102
28	18	8.137	5.783	7.675	5.524	7.212	5.265	6.750	5.007	6.287	4.748	5.732	4.438
	19	8.368	5.365	7.895	5.146	7.423	4.928	6.951	4.710	6.479	4.491	5.912	4.229
	20	8.598	4.947	8.118	4.769	7.637	4.591	7.157	4.414	6.677	4.236	6.100	4.022
	21	8.829	4.530	8.341	4.393	7.853	4.255	7.366	4.118	6.878	3.981	6.292	3.817
	22	9.060	4.112	8.565	4.016	8.070	3.919	7.574	3.823	7.079	3.727	6.485	3.611
	23	9.291	3.695	8.788	3.639	8.286	3.583	7.783	3.528	7.281	3.472	6.678	3.406
30	20	8.598	5.407	8.118	5.229	7.637	5.051	7.157	4.874	6.677	4.696	6.100	4.482
	21	8.829	4.990	8.341	4.853	7.853	4.715	7.366	4.578	6.878	4.441	6.292	4.277
	22	9.060	4.572	8.565	4.476	8.070	4.379	7.574	4.283	7.079	4.187	6.485	4.071
	23	9.291	4.155	8.788	4.099	8.286	4.043	7.783	3.988	7.281	3.932	6.678	3.866
	24	9.521	3.737	9.011	3.722	8.502	3.707	7.992	3.693	7.482	3.678	6.870	3.660

HEATING MODE

ID DB°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	9.827	9.827
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														

**R22 MODELS
C SERIES (COOLING ONLY)**

MODEL : ACK 10C / ALC 10C

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	3.360	1.995	3.119	1.738	2.878	1.480	2.637	1.223	2.396	0.966	2.107	0.658
	16	3.364	1.884	3.138	1.626	2.911	1.369	2.685	1.111	2.458	0.854	2.186	0.545
24	16	3.364	2.621	3.138	2.364	2.911	2.106	2.685	1.849	2.458	1.591	2.186	1.282
	17	3.368	2.510	3.156	2.252	2.944	1.995	2.732	1.737	2.520	1.479	2.266	1.169
	18	3.371	2.399	3.174	2.141	2.976	1.883	2.779	1.625	2.582	1.366	2.345	1.057
	19	3.375	2.288	3.192	2.030	3.009	1.771	2.826	1.512	2.644	1.254	2.424	0.944
	20	3.378	2.178	3.209	1.931	3.040	1.683	2.870	1.435	2.701	1.187	2.498	0.890
28	18	3.371	3.137	3.174	2.879	2.976	2.620	2.779	2.362	2.582	2.104	2.345	1.794
	19	3.375	3.026	3.192	2.767	3.009	2.509	2.826	2.250	2.644	1.991	2.424	1.681
	20	3.378	2.916	3.209	2.668	3.040	2.420	2.870	2.172	2.701	1.925	2.498	1.627
	21	3.381	2.807	3.225	2.577	3.069	2.348	2.912	2.118	2.756	1.888	2.569	1.612
	22	3.385	2.698	3.241	2.487	3.098	2.275	2.955	2.063	2.811	1.852	2.639	1.598
	23	3.388	2.590	3.258	2.396	3.127	2.202	2.997	2.009	2.866	1.815	2.709	1.583
30	20	3.378	3.285	3.209	3.037	3.040	2.789	2.870	2.541	2.701	2.293	2.498	1.996
	21	3.381	3.176	3.225	2.946	3.069	2.716	2.912	2.487	2.756	2.257	2.569	1.981
	22	3.385	3.067	3.241	2.856	3.098	2.644	2.955	2.432	2.811	2.221	2.639	1.967
	23	3.388	2.958	3.258	2.765	3.127	2.571	2.997	2.378	2.866	2.184	2.709	1.952
	24	3.392	2.850	3.274	2.674	3.156	2.499	3.039	2.323	2.921	2.148	2.780	1.937

MODEL : ACK 15C / ALC 15C

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	4.279	2.743	3.992	2.455	3.704	2.168	3.417	1.880	3.130	1.592	2.785	1.247
	16	4.296	2.547	4.028	2.278	3.759	2.009	3.491	1.740	3.223	1.471	2.900	1.149
24	16	4.296	3.327	4.028	3.058	3.759	2.789	3.491	2.520	3.223	2.252	2.900	1.929
	17	4.314	3.131	4.064	2.881	3.815	2.631	3.565	2.381	3.316	2.131	3.016	1.831
	18	4.331	2.934	4.100	2.703	3.870	2.472	3.639	2.241	3.409	2.010	3.132	1.733
	19	4.348	2.738	4.137	2.526	3.925	2.314	3.713	2.102	3.502	1.890	3.247	1.635
	20	4.365	2.542	4.168	2.350	3.971	2.159	3.774	1.967	3.577	1.776	3.341	1.546
28	18	4.331	3.715	4.100	3.484	3.870	3.252	3.639	3.021	3.409	2.790	3.132	2.513
	19	4.348	3.518	4.137	3.306	3.925	3.094	3.713	2.882	3.502	2.670	3.247	2.415
	20	4.365	3.322	4.168	3.131	3.971	2.939	3.774	2.747	3.577	2.556	3.341	2.326
	21	4.382	3.126	4.197	2.956	4.012	2.786	3.827	2.616	3.642	2.446	3.420	2.243
	22	4.398	2.930	4.225	2.782	4.052	2.634	3.879	2.485	3.707	2.337	3.499	2.159
	23	4.415	2.734	4.254	2.608	4.093	2.481	3.932	2.354	3.771	2.228	3.578	2.076
30	24	4.431	2.538	4.282	2.433	4.133	2.328	3.985	2.223	3.836	2.118	3.657	1.993
	20	4.365	3.712	4.168	3.521	3.971	3.329	3.774	3.137	3.577	2.946	3.341	2.716
	21	4.382	3.516	4.197	3.346	4.012	3.176	3.827	3.006	3.642	2.837	3.420	2.633
	22	4.398	3.320	4.225	3.172	4.052	3.024	3.879	2.875	3.707	2.727	3.499	2.549
	23	4.415	3.124	4.254	2.998	4.093	2.871	3.932	2.744	3.771	2.618	3.578	2.466
24	4.431	2.928	4.282	2.823	4.133	2.718	3.985	2.613	3.836	2.509	3.657	2.383	

**R22 MODELS
C SERIES (COOLING ONLY)**

MODEL : ACK 20C / ALC 18C

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	5.371	3.326	5.095	3.093	4.820	2.859	4.544	2.626	4.269	2.392	3.939	2.112
	16	5.680	3.126	5.365	2.892	5.050	2.657	4.736	2.423	4.421	2.189	4.043	1.908
24	16	5.680	4.020	5.365	3.785	5.050	3.551	4.736	3.317	4.421	3.083	4.043	2.802
	17	5.989	3.819	5.635	3.584	5.281	3.349	4.927	3.114	4.573	2.879	4.147	2.597
	18	6.299	3.619	5.905	3.383	5.512	3.147	5.118	2.912	4.724	2.676	4.252	2.393
	19	6.608	3.418	6.175	3.182	5.742	2.945	5.309	2.709	4.876	2.472	4.356	2.189
	20	6.919	3.219	6.456	2.992	5.993	2.765	5.529	2.538	5.066	2.311	4.511	2.038
28	18	6.299	4.512	5.905	4.277	5.512	4.041	5.118	3.805	4.724	3.570	4.252	3.287
	19	6.608	4.312	6.175	4.075	5.742	3.839	5.309	3.603	4.876	3.366	4.356	3.082
	20	6.919	4.113	6.456	3.886	5.993	3.659	5.529	3.432	5.066	3.205	4.511	2.932
	21	7.230	3.914	6.743	3.703	6.256	3.492	5.769	3.282	5.283	3.071	4.698	2.818
	22	7.541	3.716	7.031	3.521	6.520	3.326	6.009	3.132	5.499	2.937	4.886	2.703
	23	7.852	3.517	7.318	3.339	6.784	3.160	6.249	2.982	5.715	2.803	5.074	2.589
30	20	6.919	4.559	6.456	4.332	5.993	4.105	5.529	3.878	5.066	3.651	4.511	3.379
	21	7.230	4.361	6.743	4.150	6.256	3.939	5.769	3.728	5.283	3.518	4.698	3.265
	22	7.541	4.162	7.031	3.968	6.520	3.773	6.009	3.578	5.499	3.384	4.886	3.150
	23	7.852	3.964	7.318	3.785	6.784	3.607	6.249	3.429	5.715	3.250	5.074	3.036
	24	8.164	3.765	7.606	3.603	7.047	3.441	6.489	3.279	5.931	3.116	5.262	2.921

MODEL : ACK 20C / ALC 20C

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	5.679	3.680	5.393	3.454	5.107	3.228	4.821	3.002	4.535	2.776	4.192	2.505
	16	5.949	3.399	5.639	3.204	5.328	3.008	5.018	2.812	4.707	2.617	4.334	2.382
24	16	5.949	4.239	5.639	4.044	5.328	3.848	5.018	3.652	4.707	3.457	4.334	3.222
	17	6.220	3.958	5.884	3.793	5.549	3.628	5.214	3.463	4.879	3.297	4.476	3.099
	18	6.490	3.677	6.130	3.542	5.770	3.407	5.410	3.273	5.050	3.138	4.618	2.976
	19	6.760	3.396	6.375	3.292	5.991	3.187	5.606	3.083	5.222	2.978	4.760	2.853
28	20	7.030	3.114	6.623	3.030	6.216	2.947	5.809	2.863	5.402	2.780	4.913	2.679
	18	6.490	4.517	6.130	4.382	5.770	4.248	5.410	4.113	5.050	3.978	4.618	3.816
	19	6.760	4.236	6.375	4.132	5.991	4.027	5.606	3.923	5.222	3.819	4.760	3.693
	20	7.030	3.954	6.623	3.870	6.216	3.787	5.809	3.703	5.402	3.620	4.913	3.519
	21	7.301	3.671	6.872	3.602	6.444	3.533	6.016	3.464	5.587	3.395	5.073	3.312
	22	7.571	3.388	7.122	3.333	6.672	3.279	6.223	3.224	5.773	3.170	5.234	3.104
30	23	7.842	3.105	7.371	3.065	6.900	3.025	6.429	2.985	5.959	2.945	5.394	2.897
	24	8.112	2.822	7.620	2.796	7.128	2.771	6.636	2.745	6.144	2.720	5.554	2.689
	20	7.030	4.374	6.623	4.290	6.216	4.207	5.809	4.123	5.402	4.040	4.913	3.940
	21	7.301	4.091	6.872	4.022	6.444	3.953	6.016	3.884	5.587	3.815	5.073	3.732
30	22	7.571	3.808	7.122	3.753	6.672	3.699	6.223	3.644	5.773	3.590	5.234	3.524
	23	7.842	3.525	7.371	3.485	6.900	3.445	6.429	3.405	5.959	3.365	5.394	3.317
	24	8.112	3.242	7.620	3.216	7.128	3.191	6.636	3.165	6.144	3.140	5.554	3.109

**R22 MODELS
C SERIES (HEAT PUMP)**

**MODEL : ACK 10CR / 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	3.360	1.995	3.119	1.738	2.878	1.480	2.637	1.223	2.396	0.966	2.107	0.658
	16	3.364	1.884	3.138	1.626	2.911	1.369	2.685	1.111	2.458	0.854	2.186	0.545
24	16	3.364	2.621	3.138	2.364	2.911	2.106	2.685	1.849	2.458	1.591	2.186	1.282
	17	3.368	2.510	3.156	2.252	2.944	1.995	2.732	1.737	2.520	1.479	2.266	1.169
	18	3.371	2.399	3.174	2.141	2.976	1.883	2.779	1.625	2.582	1.366	2.345	1.057
	19	3.375	2.288	3.192	2.030	3.009	1.771	2.826	1.512	2.644	1.254	2.424	0.944
	20	3.378	2.178	3.209	1.931	3.040	1.683	2.870	1.435	2.701	1.187	2.498	0.890
28	18	3.371	3.137	3.174	2.879	2.976	2.620	2.779	2.362	2.582	2.104	2.345	1.794
	19	3.375	3.026	3.192	2.767	3.009	2.509	2.826	2.250	2.644	1.991	2.424	1.681
	20	3.378	2.916	3.209	2.668	3.040	2.420	2.870	2.172	2.701	1.925	2.498	1.627
	21	3.381	2.807	3.225	2.577	3.069	2.348	2.912	2.118	2.756	1.888	2.569	1.612
	22	3.385	2.698	3.241	2.487	3.098	2.275	2.955	2.063	2.811	1.852	2.639	1.598
	23	3.388	2.590	3.258	2.396	3.127	2.202	2.997	2.009	2.866	1.815	2.709	1.583
30	24	3.392	2.481	3.274	2.305	3.156	2.130	3.039	1.954	2.921	1.779	2.780	1.568
	20	3.378	3.285	3.209	3.037	3.040	2.789	2.870	2.541	2.701	2.293	2.498	1.996
	21	3.381	3.176	3.225	2.946	3.069	2.716	2.912	2.487	2.756	2.257	2.569	1.981
	22	3.385	3.067	3.241	2.856	3.098	2.644	2.955	2.432	2.811	2.221	2.639	1.967
	23	3.388	2.958	3.258	2.765	3.127	2.571	2.997	2.378	2.866	2.184	2.709	1.952
	24	3.392	2.850	3.274	2.674	3.156	2.499	3.039	2.323	2.921	2.148	2.780	1.937

HEATING MODE

ID DB°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	1.202	1.202	1.497	1.497	1.596	1.596	2.679	2.679	3.269	3.269	3.565	3.565	3.860	3.860
17	1.173	1.173	1.467	1.467	1.565	1.565	2.670	2.670	3.180	3.180	3.465	3.465	3.750	3.750
19	1.145	1.145	1.437	1.437	1.535	1.535	2.661	2.661	3.091	3.091	3.366	3.366	3.640	3.640
21	1.117	1.117	1.408	1.408	1.505	1.505	2.652	2.652	3.002	3.002	3.266	3.266	3.531	3.531
23	1.113	1.113	1.384	1.384	1.474	1.474	2.521	2.521	2.913	2.913	3.167	3.167	3.421	3.421
25	1.109	1.109	1.360	1.360	1.444	1.444	2.390	2.390	2.824	2.824	3.068	3.068	3.311	3.311
27	1.105	1.105	1.337	1.337	1.414	1.414	2.259	2.259	2.735	2.735	2.968	2.968	3.201	3.201
FROST REGION														

**R22 MODELS
C SERIES (HEAT PUMP)**

**MODEL : ACK 15CR / 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	4.279	2.743	3.992	2.455	3.704	2.168	3.417	1.880	3.130	1.592	2.785	1.247
	16	4.296	2.547	4.028	2.278	3.759	2.009	3.491	1.740	3.223	1.471	2.900	1.149
24	16	4.296	3.327	4.028	3.058	3.759	2.789	3.491	2.520	3.223	2.252	2.900	1.929
	17	4.314	3.131	4.064	2.881	3.815	2.631	3.565	2.381	3.316	2.131	3.016	1.831
	18	4.331	2.934	4.100	2.703	3.870	2.472	3.639	2.241	3.409	2.010	3.132	1.733
	19	4.348	2.738	4.137	2.526	3.925	2.314	3.713	2.102	3.502	1.890	3.247	1.635
	20	4.365	2.542	4.168	2.350	3.971	2.159	3.774	1.967	3.577	1.776	3.341	1.546
28	18	4.331	3.715	4.100	3.484	3.870	3.252	3.639	3.021	3.409	2.790	3.132	2.513
	19	4.348	3.518	4.137	3.306	3.925	3.094	3.713	2.882	3.502	2.670	3.247	2.415
	20	4.365	3.322	4.168	3.131	3.971	2.939	3.774	2.747	3.577	2.556	3.341	2.326
	21	4.382	3.126	4.197	2.956	4.012	2.786	3.827	2.616	3.642	2.446	3.420	2.243
	22	4.398	2.930	4.225	2.782	4.052	2.634	3.879	2.485	3.707	2.337	3.499	2.159
	23	4.415	2.734	4.254	2.608	4.093	2.481	3.932	2.354	3.771	2.228	3.578	2.076
30	20	4.365	3.712	4.168	3.521	3.971	3.329	3.774	3.137	3.577	2.946	3.341	2.716
	21	4.382	3.516	4.197	3.346	4.012	3.176	3.827	3.006	3.642	2.837	3.420	2.633
	22	4.398	3.320	4.225	3.172	4.052	3.024	3.879	2.875	3.707	2.727	3.499	2.549
	23	4.415	3.124	4.254	2.998	4.093	2.871	3.932	2.744	3.771	2.618	3.578	2.466
	24	4.431	2.928	4.282	2.823	4.133	2.718	3.985	2.613	3.836	2.509	3.657	2.383

HEATING MODE

ID DB°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	1.610	1.610	2.016	2.016	2.152	2.152	3.640	3.640	4.451	4.451	4.857	4.857	5.263	5.263
17	1.570	1.570	1.975	1.975	2.110	2.110	3.590	3.590	4.330	4.330	4.722	4.722	5.114	5.114
19	1.529	1.529	1.934	1.934	2.069	2.069	3.539	3.539	4.209	4.209	4.586	4.586	4.964	4.964
21	1.489	1.489	1.893	1.893	2.028	2.028	3.489	3.489	4.087	4.087	4.451	4.451	4.814	4.814
23	1.486	1.486	1.862	1.862	1.987	1.987	3.351	3.351	3.966	3.966	4.315	4.315	4.664	4.664
25	1.483	1.483	1.830	1.830	1.946	1.946	3.213	3.213	3.845	3.845	4.180	4.180	4.515	4.515
27	1.480	1.480	1.799	1.799	1.905	1.905	3.075	3.075	3.723	3.723	4.044	4.044	4.365	4.365

FROST REGION

**R22 MODELS
C SERIES (HEAT PUMP)**

**MODEL : ACK 20CR / 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	5.371	3.326	5.095	3.093	4.820	2.859	4.544	2.626	4.269	2.392	3.939	2.112
	16	5.680	3.126	5.365	2.892	5.050	2.657	4.736	2.423	4.421	2.189	4.043	1.908
24	16	5.680	4.020	5.365	3.785	5.050	3.551	4.736	3.317	4.421	3.083	4.043	2.802
	17	5.989	3.819	5.635	3.584	5.281	3.349	4.927	3.114	4.573	2.879	4.147	2.597
	18	6.299	3.619	5.905	3.383	5.512	3.147	5.118	2.912	4.724	2.676	4.252	2.393
	19	6.608	3.418	6.175	3.182	5.742	2.945	5.309	2.709	4.876	2.472	4.356	2.189
	20	6.919	3.219	6.456	2.992	5.993	2.765	5.529	2.538	5.066	2.311	4.511	2.038
28	18	6.299	4.512	5.905	4.277	5.512	4.041	5.118	3.805	4.724	3.570	4.252	3.287
	19	6.608	4.312	6.175	4.075	5.742	3.839	5.309	3.603	4.876	3.366	4.356	3.082
	20	6.919	4.113	6.456	3.886	5.993	3.659	5.529	3.432	5.066	3.205	4.511	2.932
	21	7.230	3.914	6.743	3.703	6.256	3.492	5.769	3.282	5.283	3.071	4.698	2.818
	22	7.541	3.716	7.031	3.521	6.520	3.326	6.009	3.132	5.499	2.937	4.886	2.703
	23	7.852	3.517	7.318	3.339	6.784	3.160	6.249	2.982	5.715	2.803	5.074	2.589
30	20	6.919	4.559	6.456	4.332	5.993	4.105	5.529	3.878	5.066	3.651	4.511	3.379
	21	7.230	4.361	6.743	4.150	6.256	3.939	5.769	3.728	5.283	3.518	4.698	3.265
	22	7.541	4.162	7.031	3.968	6.520	3.773	6.009	3.578	5.499	3.384	4.886	3.150
	23	7.852	3.964	7.318	3.785	6.784	3.607	6.249	3.429	5.715	3.250	5.074	3.036
	24	8.164	3.765	7.606	3.603	7.047	3.441	6.489	3.279	5.931	3.116	5.262	2.921

HEATING MODE

ID DB°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	2.597	2.597	3.151	3.151	3.335	3.335	5.366	5.366	6.474	6.474	7.028	7.028	7.582	7.582
17	2.556	2.556	3.094	3.094	3.274	3.274	5.290	5.290	6.299	6.299	6.833	6.833	7.367	7.367
19	2.516	2.516	3.038	3.038	3.213	3.213	5.213	5.213	6.124	6.124	6.637	6.637	7.151	7.151
21	2.475	2.475	2.982	2.982	3.151	3.151	5.136	5.136	5.948	5.948	6.442	6.442	6.935	6.935
23	2.447	2.447	2.929	2.929	3.090	3.090	4.939	4.939	5.773	5.773	6.246	6.246	6.720	6.720
25	2.419	2.419	2.876	2.876	3.028	3.028	4.743	4.743	5.597	5.597	6.051	6.051	6.504	6.504
27	2.390	2.390	2.823	2.823	2.967	2.967	4.546	4.546	5.422	5.422	5.855	5.855	6.289	6.289
FROST REGION														

**R22 MODELS
C SERIES (HEAT PUMP)**

**MODEL : ACK 20CR / 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	5.679	3.680	5.393	3.454	5.107	3.228	4.821	3.002	4.535	2.776	4.192	2.505
	16	5.949	3.399	5.639	3.204	5.328	3.008	5.018	2.812	4.707	2.617	4.334	2.382
24	16	5.949	4.239	5.639	4.044	5.328	3.848	5.018	3.652	4.707	3.457	4.334	3.222
	17	6.220	3.958	5.884	3.793	5.549	3.628	5.214	3.463	4.879	3.297	4.476	3.099
	18	6.490	3.677	6.130	3.542	5.770	3.407	5.410	3.273	5.050	3.138	4.618	2.976
	19	6.760	3.396	6.375	3.292	5.991	3.187	5.606	3.083	5.222	2.978	4.760	2.853
	20	7.030	3.114	6.623	3.030	6.216	2.947	5.809	2.863	5.402	2.780	4.913	2.679
28	18	6.490	4.517	6.130	4.382	5.770	4.248	5.410	4.113	5.050	3.978	4.618	3.816
	19	6.760	4.236	6.375	4.132	5.991	4.027	5.606	3.923	5.222	3.819	4.760	3.693
	20	7.030	3.954	6.623	3.870	6.216	3.787	5.809	3.703	5.402	3.620	4.913	3.519
	21	7.301	3.671	6.872	3.602	6.444	3.533	6.016	3.464	5.587	3.395	5.073	3.312
	22	7.571	3.388	7.122	3.333	6.672	3.279	6.223	3.224	5.773	3.170	5.234	3.104
	23	7.842	3.105	7.371	3.065	6.900	3.025	6.429	2.985	5.959	2.945	5.394	2.897
30	20	7.030	4.374	6.623	4.290	6.216	4.207	5.809	4.123	5.402	4.040	4.913	3.940
	21	7.301	4.091	6.872	4.022	6.444	3.953	6.016	3.884	5.587	3.815	5.073	3.732
	22	7.571	3.808	7.122	3.753	6.672	3.699	6.223	3.644	5.773	3.590	5.234	3.524
	23	7.842	3.525	7.371	3.485	6.900	3.445	6.429	3.405	5.959	3.365	5.394	3.317
	24	8.112	3.242	7.620	3.216	7.128	3.191	6.636	3.165	6.144	3.140	5.554	3.109

HEATING MODE

ID DB°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	2.577	2.577	3.226	3.226	3.442	3.442	5.824	5.824	7.122	7.122	7.772	7.772	8.421	8.421
17	2.512	2.512	3.161	3.161	3.377	3.377	5.697	5.697	6.928	6.928	7.555	7.555	8.182	8.182
19	2.447	2.447	3.095	3.095	3.311	3.311	5.570	5.570	6.734	6.734	7.338	7.338	7.942	7.942
21	2.382	2.382	3.030	3.030	3.245	3.245	5.443	5.443	6.540	6.540	7.121	7.121	7.703	7.703
23	2.377	2.377	2.979	2.979	3.180	3.180	5.271	5.271	6.346	6.346	6.904	6.904	7.463	7.463
25	2.373	2.373	2.929	2.929	3.114	3.114	5.099	5.099	6.152	6.152	6.688	6.688	7.224	7.224
27	2.368	2.368	2.878	2.878	3.048	3.048	4.927	4.927	5.957	5.957	6.471	6.471	6.984	6.984
FROST REGION														

**R410A MODELS
A SERIES (COOLING ONLY)**

MODEL : A5CK 20A / A5LC 25C (1 & 3 PHASE)

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	6.263	3.943	5.791	3.471	5.331	3.011	4.872	2.551	4.412	2.092	3.861	1.540
	16	6.380	3.654	5.930	3.225	5.487	2.803	5.044	2.381	4.600	1.959	4.068	1.452
24	16	6.380	4.981	5.930	4.553	5.487	4.130	5.044	3.708	4.600	3.286	4.068	2.779
	17	6.497	4.692	6.070	4.307	5.643	3.923	5.215	3.538	4.788	3.153	4.275	2.692
	18	6.609	4.397	6.200	4.052	5.791	3.707	5.382	3.363	4.973	3.018	4.482	2.604
	19	6.712	4.099	6.282	3.775	5.852	3.451	5.422	3.127	5.089	2.849	4.689	2.516
	20	6.827	3.795	6.435	3.468	6.043	3.142	5.651	2.815	5.258	2.488	4.788	2.096
28	18	6.609	5.724	6.200	5.380	5.791	5.035	5.382	4.690	4.973	4.345	4.482	3.931
	19	6.712	5.426	6.282	5.102	5.852	4.778	5.422	4.454	5.089	4.176	4.689	3.843
	20	6.827	5.122	6.435	4.796	6.043	4.469	5.651	4.142	5.258	3.815	4.788	3.423
	21	6.934	4.815	6.541	4.467	6.147	4.118	5.753	3.770	5.359	3.421	4.886	3.003
	22	7.042	4.508	6.646	4.138	6.251	3.768	5.855	3.397	5.459	3.027	4.985	2.583
	23	7.149	4.201	6.752	3.809	6.354	3.417	5.957	3.025	5.560	2.633	5.083	2.163
30	24	7.256	3.893	6.857	3.480	6.458	3.066	6.059	2.653	5.660	2.239	5.182	1.743
	20	6.827	5.786	6.435	5.459	6.043	5.132	5.651	4.806	5.258	4.479	4.788	4.087
	21	6.934	5.479	6.541	5.130	6.147	4.782	5.753	4.433	5.359	4.085	4.886	3.667
	22	7.042	5.171	6.646	4.801	6.251	4.431	5.855	4.061	5.459	3.691	4.985	3.247
	23	7.149	4.864	6.752	4.472	6.354	4.081	5.957	3.689	5.560	3.297	5.083	2.827
24	7.256	4.557	6.857	4.143	6.458	3.730	6.059	3.317	5.660	2.903	5.182	2.407	

MODEL : A5CK 25A / A5LC 25C (1 PHASE)

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	6.402	4.055	5.959	3.612	5.539	3.191	5.119	2.771	4.698	2.350	4.194	1.845
	16	6.572	3.803	6.144	3.399	5.726	3.006	5.309	2.614	4.892	2.221	4.391	1.750
24	16	6.572	5.147	6.144	4.743	5.726	4.350	5.309	3.957	4.892	3.565	4.391	3.094
	17	6.743	4.894	6.328	4.530	5.914	4.165	5.500	3.800	5.086	3.436	4.588	2.998
	18	6.902	4.631	6.495	4.299	6.088	3.967	5.681	3.634	5.274	3.302	4.786	2.903
	19	7.061	4.378	6.662	4.124	6.262	3.871	5.862	3.618	5.463	3.250	4.983	2.808
	20	7.218	4.092	6.808	3.757	6.398	3.422	5.989	3.088	5.579	2.753	5.088	2.351
28	18	6.902	5.975	6.495	5.643	6.088	5.310	5.681	4.978	5.274	4.646	4.786	4.247
	19	7.061	5.721	6.662	5.468	6.262	5.215	5.862	4.962	5.463	4.593	4.983	4.151
	20	7.218	5.436	6.808	5.101	6.398	4.766	5.989	4.431	5.579	4.097	5.088	3.695
	21	7.374	5.159	6.954	4.790	6.535	4.421	6.115	4.051	5.696	3.682	5.192	3.239
	22	7.530	4.883	7.100	4.479	6.671	4.075	6.241	3.671	5.812	3.267	5.297	2.782
	23	7.686	4.607	7.246	4.168	6.807	3.730	6.368	3.291	5.929	2.852	5.401	2.326
30	24	7.842	4.330	7.393	3.857	6.943	3.384	6.494	2.911	6.045	2.438	5.506	1.870
	20	7.218	6.108	6.808	5.773	6.398	5.438	5.989	5.103	5.579	4.769	5.088	4.367
	21	7.374	5.831	6.954	5.462	6.535	5.093	6.115	4.723	5.696	4.354	5.192	3.911
	22	7.530	5.555	7.100	5.151	6.671	4.747	6.241	4.343	5.812	3.939	5.297	3.454
	23	7.686	5.279	7.246	4.840	6.807	4.401	6.368	3.963	5.929	3.524	5.401	2.998
24	7.842	5.002	7.393	4.529	6.943	4.056	6.494	3.583	6.045	3.109	5.506	2.542	

**R410A MODELS
A SERIES (COOLING ONLY)**

MODEL : A5CK 25A / A5LC 25C

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	6.767	4.370	6.423	3.968	6.026	3.604	5.628	3.241	5.231	2.877	4.753	2.441
	16	6.995	4.115	6.639	3.756	6.256	3.418	5.873	3.079	5.490	2.740	5.031	2.333
24	16	6.995	5.438	6.639	5.079	6.256	4.741	5.873	4.402	5.490	4.063	5.031	3.656
	17	7.224	5.183	6.855	4.868	6.487	4.554	6.119	4.240	5.750	3.925	5.308	3.548
	18	7.477	4.909	7.114	4.627	6.750	4.344	6.386	4.062	6.022	3.779	5.585	3.440
	19	7.734	4.634	7.389	4.372	7.045	4.110	6.701	3.849	6.320	3.614	5.862	3.332
	20	7.979	4.347	7.595	4.053	7.212	3.758	6.829	3.463	6.445	3.168	5.985	2.815
28	18	7.477	6.232	7.114	5.950	6.750	5.667	6.386	5.385	6.022	5.102	5.585	4.763
	19	7.734	5.957	7.389	5.695	7.045	5.434	6.701	5.172	6.320	4.937	5.862	4.655
	20	7.979	5.670	7.595	5.376	7.212	5.081	6.829	4.786	6.445	4.492	5.985	4.138
	21	8.227	5.382	7.819	5.043	7.412	4.704	7.005	4.366	6.597	4.027	6.108	3.621
	22	8.474	5.093	8.043	4.711	7.612	4.328	7.180	3.945	6.749	3.563	6.232	3.104
	23	8.722	4.805	8.267	4.378	7.812	3.952	7.356	3.525	6.901	3.098	6.355	2.586
	24	8.970	4.516	8.491	4.046	8.011	3.575	7.532	3.104	7.053	2.634	6.478	2.069
30	20	7.979	6.332	7.595	6.037	7.212	5.743	6.829	5.448	6.445	5.153	5.985	4.799
	21	8.227	6.043	7.819	5.705	7.412	5.366	7.005	5.027	6.597	4.689	6.108	4.282
	22	8.474	5.755	8.043	5.372	7.612	4.990	7.180	4.607	6.749	4.224	6.232	3.765
	23	8.722	5.466	8.267	5.040	7.812	4.613	7.356	4.186	6.901	3.760	6.355	3.248
	24	8.970	5.178	8.491	4.707	8.011	4.237	7.532	3.766	7.053	3.295	6.478	2.731

MODEL : A5CK 30A / A5LC 28C (1 PHASE)

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	9.103	5.895	8.423	5.216	7.764	4.556	7.104	3.897	6.444	3.237	5.653	2.446
	16	9.320	5.455	8.654	4.844	7.999	4.242	7.344	3.641	6.689	3.039	5.903	2.317
24	16	9.320	7.287	8.654	6.675	7.999	6.073	7.344	5.472	6.689	4.870	5.903	4.149
	17	9.536	6.847	8.885	6.303	8.235	5.760	7.584	5.216	6.934	4.672	6.153	4.020
	18	9.743	6.397	9.101	5.916	8.458	5.434	7.816	4.952	7.174	4.470	6.403	3.892
	19	9.960	5.930	9.375	5.418	8.791	4.906	8.206	4.393	7.500	4.107	6.653	3.763
	20	10.153	5.481	9.507	5.033	8.860	4.584	8.214	4.136	7.568	3.687	6.793	3.149
28	18	9.743	8.229	9.101	7.747	8.458	7.265	7.816	6.783	7.174	6.301	6.403	5.723
	19	9.960	7.761	9.375	7.249	8.791	6.737	8.206	6.225	7.500	5.938	6.653	5.594
	20	10.153	7.312	9.507	6.864	8.860	6.415	8.214	5.967	7.568	5.518	6.793	4.980
	21	10.356	6.845	9.697	6.368	9.039	5.891	8.381	5.415	7.722	4.938	6.932	4.366
	22	10.558	6.378	9.888	5.873	9.218	5.368	8.547	4.863	7.877	4.357	7.072	3.751
	23	10.761	5.910	10.079	5.377	9.396	4.844	8.714	4.310	8.031	3.777	7.212	3.137
	24	10.964	5.443	10.269	4.882	9.575	4.320	8.880	3.758	8.185	3.197	7.352	2.523
30	20	10.153	8.228	9.507	7.779	8.860	7.331	8.214	6.882	7.568	6.434	6.793	5.896
	21	10.356	7.760	9.697	7.284	9.039	6.807	8.381	6.330	7.722	5.853	6.932	5.281
	22	10.558	7.293	9.888	6.788	9.218	6.283	8.547	5.778	7.877	5.273	7.072	4.667
	23	10.761	6.826	10.079	6.293	9.396	5.759	8.714	5.226	8.031	4.693	7.212	4.053
	24	10.964	6.359	10.269	5.797	9.575	5.235	8.880	4.674	8.185	4.112	7.352	3.438

**R410A MODELS
A SERIES (COOLING ONLY)**

MODEL : A5CK 30A / A5LC 28C (3 PHASE)

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	8.821	5.613	8.152	4.945	7.501	4.294	6.850	3.643	6.199	2.992	5.418	2.211
	16	9.024	5.183	8.371	4.581	7.728	3.987	7.084	3.394	6.440	2.800	5.668	2.088
24	16	9.024	7.014	8.371	6.412	7.728	5.818	7.084	5.225	6.440	4.631	5.668	3.919
	17	9.227	6.584	8.591	6.048	7.954	5.512	7.318	4.976	6.682	4.440	5.918	3.796
	18	9.422	6.146	8.797	5.671	8.171	5.195	7.545	4.719	6.919	4.244	6.168	3.673
	19	9.626	5.691	9.055	5.190	8.484	4.689	7.913	4.187	7.234	3.898	6.419	3.550
	20	9.809	5.254	9.183	4.813	8.557	4.372	7.931	3.931	7.305	3.490	6.553	2.961
28	18	9.422	7.977	8.797	7.502	8.171	7.026	7.545	6.551	6.919	6.075	6.168	5.504
	19	9.626	7.522	9.055	7.021	8.484	6.520	7.913	6.019	7.234	5.729	6.419	5.381
	20	9.809	7.085	9.183	6.644	8.557	6.203	7.931	5.762	7.305	5.321	6.553	4.792
	21	10.000	6.630	9.363	6.163	8.726	5.697	8.089	5.230	7.452	4.763	6.688	4.203
	22	10.191	6.175	9.543	5.682	8.895	5.190	8.248	4.698	7.600	4.205	6.823	3.615
	23	10.382	5.720	9.723	5.202	9.065	4.684	8.406	4.166	7.748	3.647	6.958	3.026
30	24	10.573	5.265	9.903	4.721	9.234	4.177	8.565	3.633	7.896	3.090	7.092	2.437
	20	9.809	8.000	9.183	7.559	8.557	7.119	7.931	6.678	7.305	6.237	6.553	5.708
	21	10.000	7.545	9.363	7.079	8.726	6.612	8.089	6.145	7.452	5.679	6.688	5.119
	22	10.191	7.090	9.543	6.598	8.895	6.106	8.248	5.613	7.600	5.121	6.823	4.530
	23	10.382	6.635	9.723	6.117	9.065	5.599	8.406	5.081	7.748	4.563	6.958	3.941
	24	10.573	6.180	9.903	5.636	9.234	5.093	8.565	4.549	7.896	4.005	7.092	3.352

MODEL : A5CK 30A / A5LC 35C (1 & 3 PHASE)

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	9.262	6.159	8.715	5.612	8.224	5.122	7.733	4.631	7.243	4.141	6.654	3.552
	16	9.605	5.768	9.061	5.290	8.545	4.840	8.030	4.390	7.514	3.941	6.895	3.401
24	16	9.605	7.539	9.061	7.061	8.545	6.611	8.030	6.161	7.514	5.712	6.895	5.172
	17	9.948	7.148	9.407	6.739	8.867	6.330	8.326	5.921	7.786	5.512	7.137	5.021
	18	10.264	6.731	9.709	6.373	9.155	6.015	8.600	5.657	8.045	5.299	7.379	4.869
	19	10.594	6.288	10.091	5.849	9.589	5.409	9.086	4.970	8.419	4.856	7.620	4.718
	20	10.895	5.876	10.296	5.514	9.697	5.153	9.098	4.791	8.499	4.429	7.780	3.995
28	18	10.264	8.502	9.709	8.144	9.155	7.786	8.600	7.428	8.045	7.070	7.379	6.640
	19	10.594	8.059	10.091	7.620	9.589	7.180	9.086	6.741	8.419	6.627	7.620	6.489
	20	10.895	7.647	10.296	7.285	9.697	6.924	9.098	6.562	8.499	6.200	7.780	5.766
	21	11.208	7.209	10.580	6.792	9.951	6.376	9.323	5.959	8.694	5.543	7.940	5.043
	22	11.522	6.771	10.864	6.299	10.206	5.828	9.548	5.357	8.890	4.885	8.100	4.320
	23	11.836	6.332	11.148	5.806	10.461	5.280	9.773	4.754	9.085	4.228	8.260	3.597
30	24	12.149	5.894	11.432	5.313	10.715	4.732	9.998	4.151	9.281	3.571	8.420	2.873
	20	10.895	8.533	10.296	8.171	9.697	7.809	9.098	7.447	8.499	7.086	7.780	6.652
	21	11.208	8.094	10.580	7.678	9.951	7.261	9.323	6.845	8.694	6.428	7.940	5.928
	22	11.522	7.656	10.864	7.185	10.206	6.713	9.548	6.242	8.890	5.771	8.100	5.205
	23	11.836	7.218	11.148	6.692	10.461	6.166	9.773	5.640	9.085	5.113	8.260	4.482
	24	12.149	6.780	11.432	6.199	10.715	5.618	9.998	5.037	9.281	4.456	8.420	3.759

**R410A MODELS
A SERIES (HEATPUMP)**

MODEL : A5CK 40A / A5LC 35C (1 & 3 PHASE)

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	10.103	6.504	9.495	5.895	8.946	5.346	8.397	4.797	7.848	4.248	7.189	3.589
	16	10.465	6.079	9.874	5.545	9.313	5.040	8.751	4.535	8.190	4.031	7.516	3.425
24	16	10.465	8.137	9.874	7.603	9.313	7.098	8.751	6.594	8.190	6.089	7.516	5.484
	17	10.827	7.712	10.253	7.252	9.679	6.792	9.106	6.332	8.532	5.872	7.844	5.320
	18	11.161	7.260	10.586	6.855	10.011	6.451	9.436	6.046	8.862	5.642	8.172	5.157
	19	11.499	6.782	10.939	6.308	10.378	5.834	9.818	5.360	9.219	5.194	8.499	4.993
	20	11.824	6.332	11.219	5.924	10.614	5.516	10.009	5.109	9.404	4.701	8.678	4.212
28	18	11.161	9.318	10.586	8.914	10.011	8.509	9.436	8.105	8.862	7.701	8.172	7.215
	19	11.499	8.841	10.939	8.367	10.378	7.893	9.818	7.419	9.219	7.252	8.499	7.052
	20	11.824	8.391	11.219	7.983	10.614	7.575	10.009	7.167	9.404	6.759	8.678	6.270
	21	12.153	7.915	11.519	7.448	10.885	6.982	10.251	6.515	9.617	6.048	8.856	5.488
	22	12.482	7.440	11.819	6.914	11.156	6.389	10.493	5.863	9.830	5.337	9.035	4.706
	23	12.811	6.965	12.119	6.380	11.427	5.795	10.735	5.211	10.044	4.626	9.213	3.924
	24	13.140	6.489	12.419	5.846	11.698	5.202	10.978	4.559	10.257	3.915	9.392	3.143
30	20	11.824	9.420	11.219	9.012	10.614	8.604	10.009	8.196	9.404	7.789	8.678	7.299
	21	12.153	8.944	11.519	8.478	10.885	8.011	10.251	7.544	9.617	7.077	8.856	6.517
	22	12.482	8.469	11.819	7.943	11.156	7.418	10.493	6.892	9.830	6.366	9.035	5.736
	23	12.811	7.994	12.119	7.409	11.427	6.825	10.735	6.240	10.044	5.655	9.213	4.954
	24	13.140	7.519	12.419	6.875	11.698	6.231	10.978	5.588	10.257	4.944	9.392	4.172

MODEL : A5CK 40A / A5LC 40C (1 & 3 PHASE)

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	11.323	7.578	10.819	6.979	10.239	6.462	9.658	5.946	9.078	5.430	8.381	4.811
	16	11.740	7.136	11.194	6.619	10.610	6.143	10.026	5.667	9.442	5.191	8.740	4.620
24	16	11.740	9.178	11.194	8.660	10.610	8.184	10.026	7.709	9.442	7.233	8.740	6.662
	17	12.157	8.736	11.569	8.300	10.981	7.865	10.393	7.429	9.805	6.994	9.100	6.471
	18	12.609	8.255	12.003	7.876	11.397	7.496	10.792	7.116	10.186	6.737	9.459	6.281
	19	13.076	7.743	12.528	7.258	11.979	6.774	11.430	6.289	10.698	6.199	9.818	6.090
	20	13.508	7.268	12.838	6.866	12.168	6.464	11.498	6.063	10.828	5.661	10.024	5.179
28	18	12.609	10.297	12.003	9.917	11.397	9.538	10.792	9.158	10.186	8.778	9.459	8.323
	19	13.076	9.785	12.528	9.300	11.979	8.816	11.430	8.331	10.698	8.241	9.818	8.132
	20	13.508	9.310	12.838	8.908	12.168	8.506	11.498	8.104	10.828	7.703	10.024	7.220
	21	13.954	8.802	13.238	8.323	12.522	7.843	11.806	7.364	11.090	6.884	10.231	6.309
	22	14.401	8.295	13.639	7.738	12.876	7.181	12.114	6.623	11.352	6.066	10.437	5.397
	23	14.848	7.788	14.039	7.153	13.230	6.518	12.422	5.883	11.613	5.248	10.643	4.486
	24	15.294	7.281	14.439	6.568	13.585	5.856	12.730	5.143	11.875	4.430	10.849	3.574
30	20	13.508	10.330	12.838	9.929	12.168	9.527	11.498	9.125	10.828	8.723	10.024	8.241
	21	13.954	9.823	13.238	9.344	12.522	8.864	11.806	8.385	11.090	7.905	10.231	7.330
	22	14.401	9.316	13.639	8.759	12.876	8.202	12.114	7.644	11.352	7.087	10.437	6.418
	23	14.848	8.809	14.039	8.174	13.230	7.539	12.422	6.904	11.613	6.269	10.643	5.507
	24	15.294	8.302	14.439	7.589	13.585	6.876	12.730	6.163	11.875	5.451	10.849	4.595

**R410A MODELS
A SERIES (HEATPUMP)**

MODEL : A5CK 50A / A5LC 50C

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	13.822	9.032	13.155	8.384	12.383	7.842	11.610	7.300	10.837	6.757	9.910	6.107
	16	14.367	8.533	13.661	7.980	12.902	7.480	12.143	6.981	11.384	6.481	10.473	5.881
24	16	14.367	10.704	13.661	10.151	12.902	9.651	12.143	9.152	11.384	8.652	10.473	8.052
	17	14.912	10.204	14.167	9.747	13.421	9.290	12.676	8.833	11.930	8.376	11.036	7.827
	18	15.506	9.655	14.755	9.260	14.003	8.865	13.252	8.471	12.501	8.076	11.599	7.602
	19	16.125	9.063	15.488	8.513	14.850	7.964	14.213	7.415	13.281	7.398	12.162	7.377
	20	16.684	8.526	15.863	8.098	15.043	7.670	14.222	7.242	13.402	6.814	12.417	6.300
28	18	15.506	11.826	14.755	11.431	14.003	11.036	13.252	10.642	12.501	10.247	11.599	9.773
	19	16.125	11.234	15.488	10.684	14.850	10.135	14.213	9.586	13.281	9.569	12.162	9.548
	20	16.684	10.697	15.863	10.269	15.043	9.841	14.222	9.413	13.402	8.985	12.417	8.471
	21	17.267	10.116	16.383	9.593	15.500	9.069	14.616	8.546	13.733	8.022	12.673	7.394
	22	17.850	9.536	16.903	8.917	15.957	8.298	15.010	7.679	14.064	7.060	12.928	6.317
	23	18.433	8.955	17.423	8.241	16.414	7.526	15.404	6.812	14.395	6.097	13.183	5.240
	24	19.016	8.375	17.943	7.565	16.871	6.755	15.798	5.945	14.726	5.135	13.439	4.163
30	20	16.684	11.782	15.863	11.354	15.043	10.926	14.222	10.498	13.402	10.070	12.417	9.556
	21	17.267	11.202	16.383	10.678	15.500	10.155	14.616	9.631	13.733	9.108	12.673	8.479
	22	17.850	10.621	16.903	10.002	15.957	9.383	15.010	8.764	14.064	8.145	12.928	7.402
	23	18.433	10.041	17.423	9.326	16.414	8.612	15.404	7.897	14.395	7.183	13.183	6.325
	24	19.016	9.460	17.943	8.650	16.871	7.840	15.798	7.030	14.726	6.220	13.439	5.248

**R410A MODELS
A SERIES (HEAT PUMP)**

**MODEL : A5CK 20AR / A5LC 20CR (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	6.263	3.943	5.791	3.471	5.331	3.011	4.872	2.551	4.412	2.092	3.861	1.540
	16	6.380	3.654	5.930	3.225	5.487	2.803	5.044	2.381	4.600	1.959	4.068	1.452
24	16	6.380	4.981	5.930	4.553	5.487	4.130	5.044	3.708	4.600	3.286	4.068	2.779
	17	6.497	4.692	6.070	4.307	5.643	3.923	5.215	3.538	4.788	3.153	4.275	2.692
	18	6.609	4.397	6.200	4.052	5.791	3.707	5.382	3.363	4.973	3.018	4.482	2.604
	19	6.712	4.099	6.282	3.775	5.852	3.451	5.422	3.127	5.089	2.849	4.689	2.516
	20	6.827	3.795	6.435	3.468	6.043	3.142	5.651	2.815	5.258	2.488	4.788	2.096
28	18	6.609	5.724	6.200	5.380	5.791	5.035	5.382	4.690	4.973	4.345	4.482	3.931
	19	6.712	5.426	6.282	5.102	5.852	4.778	5.422	4.454	5.089	4.176	4.689	3.843
	20	6.827	5.122	6.435	4.796	6.043	4.469	5.651	4.142	5.258	3.815	4.788	3.423
	21	6.934	4.815	6.541	4.467	6.147	4.118	5.753	3.770	5.359	3.421	4.886	3.003
	22	7.042	4.508	6.646	4.138	6.251	3.768	5.855	3.397	5.459	3.027	4.985	2.583
	23	7.149	4.201	6.752	3.809	6.354	3.417	5.957	3.025	5.560	2.633	5.083	2.163
	24	7.256	3.893	6.857	3.480	6.458	3.066	6.059	2.653	5.660	2.239	5.182	1.743
30	20	6.827	5.786	6.435	5.459	6.043	5.132	5.651	4.806	5.258	4.479	4.788	4.087
	21	6.934	5.479	6.541	5.130	6.147	4.782	5.753	4.433	5.359	4.085	4.886	3.667
	22	7.042	5.171	6.646	4.801	6.251	4.431	5.855	4.061	5.459	3.691	4.985	3.247
	23	7.149	4.864	6.752	4.472	6.354	4.081	5.957	3.689	5.560	3.297	5.083	2.827
	24	7.256	4.557	6.857	4.143	6.458	3.730	6.059	3.317	5.660	2.903	5.182	2.407

HEATING MODE

ID DB°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	3.633	3.633	3.777	3.777	5.432	5.432	6.266	6.266	6.705	6.705	7.145	7.145
19	3.106	3.106	3.556	3.556	3.701	3.701	5.425	5.425	6.230	6.230	6.676	6.676	7.122	7.122
21	3.020	3.020	3.477	3.477	3.624	3.624	5.381	5.381	6.194	6.194	6.647	6.647	7.100	7.100
23	2.934	2.934	3.397	3.397	3.548	3.548	5.299	5.299	6.157	6.157	6.618	6.618	7.078	7.078
25	2.848	2.848	3.317	3.317	3.472	3.472	5.217	5.217	6.121	6.121	6.589	6.589	7.056	7.056
27	2.762	2.762	3.237	3.237	3.395	3.395	5.135	5.135	6.085	6.085	6.559	6.559	7.034	7.034
FROST REGION														

**R410A MODELS
A SERIES (HEAT PUMP)**

**MODEL : A5CK 25AR / 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	6.402	4.055	5.959	3.612	5.539	3.191	5.119	2.771	4.698	2.350	4.194	1.845
	16	6.572	3.803	6.144	3.399	5.726	3.006	5.309	2.614	4.892	2.221	4.391	1.750
24	16	6.572	5.147	6.144	4.743	5.726	4.350	5.309	3.957	4.892	3.565	4.391	3.094
	17	6.743	4.894	6.328	4.530	5.914	4.165	5.500	3.800	5.086	3.436	4.588	2.998
	18	6.902	4.631	6.495	4.299	6.088	3.967	5.681	3.634	5.274	3.302	4.786	2.903
	19	7.061	4.378	6.662	4.124	6.262	3.871	5.862	3.618	5.463	3.250	4.983	2.808
	20	7.218	4.092	6.808	3.757	6.398	3.422	5.989	3.088	5.579	2.753	5.088	2.351
28	18	6.902	5.975	6.495	5.643	6.088	5.310	5.681	4.978	5.274	4.646	4.786	4.247
	19	7.061	5.721	6.662	5.468	6.262	5.215	5.862	4.962	5.463	4.593	4.983	4.151
	20	7.218	5.436	6.808	5.101	6.398	4.766	5.989	4.431	5.579	4.097	5.088	3.695
	21	7.374	5.159	6.954	4.790	6.535	4.421	6.115	4.051	5.696	3.682	5.192	3.239
	22	7.530	4.883	7.100	4.479	6.671	4.075	6.241	3.671	5.812	3.267	5.297	2.782
	23	7.686	4.607	7.246	4.168	6.807	3.730	6.368	3.291	5.929	2.852	5.401	2.326
	24	7.842	4.330	7.393	3.857	6.943	3.384	6.494	2.911	6.045	2.438	5.506	1.870
30	20	7.218	6.108	6.808	5.773	6.398	5.438	5.989	5.103	5.579	4.769	5.088	4.367
	21	7.374	5.831	6.954	5.462	6.535	5.093	6.115	4.723	5.696	4.354	5.192	3.911
	22	7.530	5.555	7.100	5.151	6.671	4.747	6.241	4.343	5.812	3.939	5.297	3.454
	23	7.686	5.279	7.246	4.840	6.807	4.401	6.368	3.963	5.929	3.524	5.401	2.998
	24	7.842	5.002	7.393	4.529	6.943	4.056	6.494	3.583	6.045	3.109	5.506	2.542

HEATING MODE

ID DB°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	3.809	3.809	4.311	4.311	4.479	4.479	6.320	6.320	7.324	7.324	7.827	7.827	8.329	8.329
17	3.709	3.709	4.287	4.287	4.390	4.390	6.313	6.313	7.283	7.283	7.793	7.793	8.304	8.304
19	3.610	3.610	4.262	4.262	4.301	4.301	6.305	6.305	7.241	7.241	7.759	7.759	8.278	8.278
21	3.510	3.510	4.180	4.180	4.212	4.212	6.254	6.254	7.199	7.199	7.726	7.726	8.253	8.253
23	3.410	3.410	4.041	4.041	4.124	4.124	6.159	6.159	7.157	7.157	7.692	7.692	8.228	8.228
25	3.310	3.310	3.901	3.901	4.035	4.035	6.064	6.064	7.115	7.115	7.659	7.659	8.202	8.202
27	3.210	3.210	3.762	3.762	3.946	3.946	5.970	5.970	7.073	7.073	7.625	7.625	8.177	8.177
FROST REGION														

**R410A MODELS
A SERIES (HEAT PUMP)**

**MODEL : A5CK 25AR / 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	6.767	4.370	6.423	3.968	6.026	3.604	5.628	3.241	5.231	2.877	4.753	2.441
	16	6.995	4.115	6.639	3.756	6.256	3.418	5.873	3.079	5.490	2.740	5.031	2.333
24	16	6.995	5.438	6.639	5.079	6.256	4.741	5.873	4.402	5.490	4.063	5.031	3.656
	17	7.224	5.183	6.855	4.868	6.487	4.554	6.119	4.240	5.750	3.925	5.308	3.548
	18	7.477	4.909	7.114	4.627	6.750	4.344	6.386	4.062	6.022	3.779	5.585	3.440
	19	7.734	4.634	7.389	4.372	7.045	4.110	6.701	3.849	6.320	3.614	5.862	3.332
	20	7.979	4.347	7.595	4.053	7.212	3.758	6.829	3.463	6.445	3.168	5.985	2.815
28	18	7.477	6.232	7.114	5.950	6.750	5.667	6.386	5.385	6.022	5.102	5.585	4.763
	19	7.734	5.957	7.389	5.695	7.045	5.434	6.701	5.172	6.320	4.937	5.862	4.655
	20	7.979	5.670	7.595	5.376	7.212	5.081	6.829	4.786	6.445	4.492	5.985	4.138
	21	8.227	5.382	7.819	5.043	7.412	4.704	7.005	4.366	6.597	4.027	6.108	3.621
	22	8.474	5.093	8.043	4.711	7.612	4.328	7.180	3.945	6.749	3.563	6.232	3.104
	23	8.722	4.805	8.267	4.378	7.812	3.952	7.356	3.525	6.901	3.098	6.355	2.586
30	20	7.979	6.332	7.595	6.037	7.212	5.743	6.829	5.448	6.445	5.153	5.985	4.799
	21	8.227	6.043	7.819	5.705	7.412	5.366	7.005	5.027	6.597	4.689	6.108	4.282
	22	8.474	5.755	8.043	5.372	7.612	4.990	7.180	4.607	6.749	4.224	6.232	3.765
	23	8.722	5.466	8.267	5.040	7.812	4.613	7.356	4.186	6.901	3.760	6.355	3.248
	24	8.970	5.178	8.491	4.707	8.011	4.237	7.532	3.766	7.053	3.295	6.478	2.731

HEATING MODE

ID DB°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	4.110	4.110	4.652	4.652	4.833	4.833	6.820	6.820	7.904	7.904	8.446	8.446	8.987	8.987
17	4.003	4.003	4.538	4.538	4.724	4.724	6.812	6.812	7.790	7.790	8.331	8.331	8.872	8.872
19	3.895	3.895	4.424	4.424	4.615	4.615	6.804	6.804	7.676	7.676	8.216	8.216	8.756	8.756
21	3.787	3.787	4.315	4.315	4.506	4.506	6.706	6.706	7.562	7.562	8.102	8.102	8.641	8.641
23	3.679	3.679	4.210	4.210	4.397	4.397	6.520	6.520	7.448	7.448	7.987	7.987	8.525	8.525
25	3.572	3.572	4.105	4.105	4.288	4.288	6.334	6.334	7.335	7.335	7.872	7.872	8.410	8.410
27	3.464	3.464	4.001	4.001	4.180	4.180	6.147	6.147	7.221	7.221	7.758	7.758	8.294	8.294
FROST REGION														

**R410A MODELS
A SERIES (HEAT PUMP)**

**MODEL : A5CK 30AR / A5LC 28CR (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	9.103	5.895	8.423	5.216	7.764	4.556	7.104	3.897	6.444	3.237	5.653	2.446
	16	9.320	5.455	8.654	4.844	7.999	4.242	7.344	3.641	6.689	3.039	5.903	2.317
24	16	9.320	7.287	8.654	6.675	7.999	6.073	7.344	5.472	6.689	4.870	5.903	4.149
	17	9.536	6.847	8.885	6.303	8.235	5.760	7.584	5.216	6.934	4.672	6.153	4.020
	18	9.743	6.397	9.101	5.916	8.458	5.434	7.816	4.952	7.174	4.470	6.403	3.892
	19	9.960	5.930	9.375	5.418	8.791	4.906	8.206	4.393	7.500	4.107	6.653	3.763
	20	10.153	5.481	9.507	5.033	8.860	4.584	8.214	4.136	7.568	3.687	6.793	3.149
	24	10.153	7.312	9.507	6.864	8.860	6.415	8.214	5.967	7.568	5.518	6.793	4.980
28	18	9.743	8.229	9.101	7.747	8.458	7.265	7.816	6.783	7.174	6.301	6.403	5.723
	19	9.960	7.761	9.375	7.249	8.791	6.737	8.206	6.225	7.500	5.938	6.653	5.594
	20	10.153	7.312	9.507	6.864	8.860	6.415	8.214	5.967	7.568	5.518	6.793	4.980
	21	10.356	6.845	9.697	6.368	9.039	5.891	8.381	5.415	7.722	4.938	6.932	4.366
	22	10.558	6.378	9.888	5.873	9.218	5.368	8.547	4.863	7.877	4.357	7.072	3.751
	23	10.761	5.910	10.079	5.377	9.396	4.844	8.714	4.310	8.031	3.777	7.212	3.137
	24	10.964	5.443	10.269	4.882	9.575	4.320	8.880	3.758	8.185	3.197	7.352	2.523
30	20	10.153	8.228	9.507	7.779	8.860	7.331	8.214	6.882	7.568	6.434	6.793	5.896
	21	10.356	7.760	9.697	7.284	9.039	6.807	8.381	6.330	7.722	5.853	6.932	5.281
	22	10.558	7.293	9.888	6.788	9.218	6.283	8.547	5.778	7.877	5.273	7.072	4.667
	23	10.761	6.826	10.079	6.293	9.396	5.759	8.714	5.226	8.031	4.693	7.212	4.053
	24	10.964	6.359	10.269	5.797	9.575	5.235	8.880	4.674	8.185	4.112	7.352	3.438

HEATING MODE

ID DB°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	4.961	4.961	5.615	5.615	5.833	5.833	8.231	8.231	9.539	9.539	10.193	10.193	10.847	10.847
17	4.831	4.831	5.538	5.538	5.697	5.697	8.221	8.221	9.377	9.377	10.026	10.026	10.675	10.675
19	4.701	4.701	5.461	5.461	5.561	5.561	8.211	8.211	9.214	9.214	9.859	9.859	10.504	10.504
21	4.571	4.571	5.334	5.334	5.424	5.424	8.079	8.079	9.052	9.052	9.692	9.692	10.333	10.333
23	4.441	4.441	5.158	5.158	5.288	5.288	7.823	7.823	8.890	8.890	9.526	9.526	10.161	10.161
25	4.311	4.311	4.983	4.983	5.152	5.152	7.568	7.568	8.728	8.728	9.359	9.359	9.990	9.990
27	4.181	4.181	4.807	4.807	5.016	5.016	7.313	7.313	8.565	8.565	9.192	9.192	9.818	9.818
FROST REGION														

**R410A MODELS
A SERIES (HEAT PUMP)**

**MODEL : A5CK 30AR / A5LC 28CR (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	8.821	5.613	8.152	4.945	7.501	4.294	6.850	3.643	6.199	2.992	5.418	2.211
	16	9.024	5.183	8.371	4.581	7.728	3.987	7.084	3.394	6.440	2.800	5.668	2.088
24	16	9.024	7.014	8.371	6.412	7.728	5.818	7.084	5.225	6.440	4.631	5.668	3.919
	17	9.227	6.584	8.591	6.048	7.954	5.512	7.318	4.976	6.682	4.440	5.918	3.796
	18	9.422	6.146	8.797	5.671	8.171	5.195	7.545	4.719	6.919	4.244	6.168	3.673
	19	9.626	5.691	9.055	5.190	8.484	4.689	7.913	4.187	7.234	3.898	6.419	3.550
	20	9.809	5.254	9.183	4.813	8.557	4.372	7.931	3.931	7.305	3.490	6.553	2.961
28	18	9.422	7.977	8.797	7.502	8.171	7.026	7.545	6.551	6.919	6.075	6.168	5.504
	19	9.626	7.522	9.055	7.021	8.484	6.520	7.913	6.019	7.234	5.729	6.419	5.381
	20	9.809	7.085	9.183	6.644	8.557	6.203	7.931	5.762	7.305	5.321	6.553	4.792
	21	10.000	6.630	9.363	6.163	8.726	5.697	8.089	5.230	7.452	4.763	6.688	4.203
	22	10.191	6.175	9.543	5.682	8.895	5.190	8.248	4.698	7.600	4.205	6.823	3.615
	23	10.382	5.720	9.723	5.202	9.065	4.684	8.406	4.166	7.748	3.647	6.958	3.026
30	20	9.809	8.000	9.183	7.559	8.557	7.119	7.931	6.678	7.305	6.237	6.553	5.708
	21	10.000	7.545	9.363	7.079	8.726	6.612	8.089	6.145	7.452	5.679	6.688	5.119
	22	10.191	7.090	9.543	6.598	8.895	6.106	8.248	5.613	7.600	5.121	6.823	4.530
	23	10.382	6.635	9.723	6.117	9.065	5.599	8.406	5.081	7.748	4.563	6.958	3.941
	24	10.573	6.180	9.903	5.636	9.234	5.093	8.565	4.549	7.896	4.005	7.092	3.352

HEATING MODE

ID DB°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	4.784	4.784	5.414	5.414	5.625	5.625	7.937	7.937	9.198	9.198	9.829	9.829	10.459	10.459
17	4.658	4.658	5.324	5.324	5.491	5.491	7.927	7.927	9.030	9.030	9.655	9.655	10.279	10.279
19	4.533	4.533	5.233	5.233	5.358	5.358	7.918	7.918	8.862	8.862	9.481	9.481	10.099	10.099
21	4.408	4.408	5.107	5.107	5.224	5.224	7.783	7.783	8.694	8.694	9.307	9.307	9.919	9.919
23	4.282	4.282	4.947	4.947	5.091	5.091	7.523	7.523	8.526	8.526	9.133	9.133	9.739	9.739
25	4.157	4.157	4.786	4.786	4.957	4.957	7.262	7.262	8.358	8.358	8.959	8.959	9.559	9.559
27	4.031	4.031	4.625	4.625	4.824	4.824	7.002	7.002	8.190	8.190	8.785	8.785	9.379	9.379
FROST REGION														

**R410A MODELS
A SERIES (HEAT PUMP)**

**MODEL : A5CK 30AR / A5LC 35CR (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	9.262	6.159	8.715	5.612	8.224	5.122	7.733	4.631	7.243	4.141	6.654	3.552
	16	9.605	5.768	9.061	5.290	8.545	4.840	8.030	4.390	7.514	3.941	6.895	3.401
24	16	9.605	7.539	9.061	7.061	8.545	6.611	8.030	6.161	7.514	5.712	6.895	5.172
	17	9.948	7.148	9.407	6.739	8.867	6.330	8.326	5.921	7.786	5.512	7.137	5.021
	18	10.264	6.731	9.709	6.373	9.155	6.015	8.600	5.657	8.045	5.299	7.379	4.869
	19	10.594	6.288	10.091	5.849	9.589	5.409	9.086	4.970	8.419	4.856	7.620	4.718
	20	10.895	5.876	10.296	5.514	9.697	5.153	9.098	4.791	8.499	4.429	7.780	3.995
28	18	10.264	8.502	9.709	8.144	9.155	7.786	8.600	7.428	8.045	7.070	7.379	6.640
	19	10.594	8.059	10.091	7.620	9.589	7.180	9.086	6.741	8.419	6.627	7.620	6.489
	20	10.895	7.647	10.296	7.285	9.697	6.924	9.098	6.562	8.499	6.200	7.780	5.766
	21	11.208	7.209	10.580	6.792	9.951	6.376	9.323	5.959	8.694	5.543	7.940	5.043
	22	11.522	6.771	10.864	6.299	10.206	5.828	9.548	5.357	8.890	4.885	8.100	4.320
	23	11.836	6.332	11.148	5.806	10.461	5.280	9.773	4.754	9.085	4.228	8.260	3.597
30	20	10.895	8.533	10.296	8.171	9.697	7.809	9.098	7.447	8.499	7.086	7.780	6.652
	21	11.208	8.094	10.580	7.678	9.951	7.261	9.323	6.845	8.694	6.428	7.940	5.928
	22	11.522	7.656	10.864	7.185	10.206	6.713	9.548	6.242	8.890	5.771	8.100	5.205
	23	11.836	7.218	11.148	6.692	10.461	6.166	9.773	5.640	9.085	5.113	8.260	4.482
	24	12.149	6.780	11.432	6.199	10.715	5.618	9.998	5.037	9.281	4.456	8.420	3.759

HEATING MODE

ID DB°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	5.847	5.847	6.618	6.618	6.875	6.875	9.701	9.701	11.242	11.242	12.013	12.013	12.784	12.784
17	5.694	5.694	6.550	6.550	6.725	6.725	9.689	9.689	11.109	11.109	11.882	11.882	12.656	12.656
19	5.540	5.540	6.482	6.482	6.575	6.575	9.678	9.678	10.975	10.975	11.752	11.752	12.528	12.528
21	5.387	5.387	6.343	6.343	6.426	6.426	9.557	9.557	10.842	10.842	11.621	11.621	12.400	12.400
23	5.234	5.234	6.134	6.134	6.276	6.276	9.326	9.326	10.708	10.708	11.490	11.490	12.272	12.272
25	5.080	5.080	5.924	5.924	6.127	6.127	9.096	9.096	10.575	10.575	11.359	11.359	12.144	12.144
27	4.927	4.927	5.715	5.715	5.977	5.977	8.866	8.866	10.441	10.441	11.229	11.229	12.016	12.016
FROST REGION														

**R410A MODELS
A SERIES (HEAT PUMP)**

**MODEL : A5CK 40AR / A5LC 35CR (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	10.103	6.504	9.495	5.895	8.946	5.346	8.397	4.797	7.848	4.248	7.189	3.589
	16	10.465	6.079	9.874	5.545	9.313	5.040	8.751	4.535	8.190	4.031	7.516	3.425
24	16	10.465	8.137	9.874	7.603	9.313	7.098	8.751	6.594	8.190	6.089	7.516	5.484
	17	10.827	7.712	10.253	7.252	9.679	6.792	9.106	6.332	8.532	5.872	7.844	5.320
	18	11.161	7.260	10.586	6.855	10.011	6.451	9.436	6.046	8.862	5.642	8.172	5.157
	19	11.499	6.782	10.939	6.308	10.378	5.834	9.818	5.360	9.219	5.194	8.499	4.993
	20	11.824	6.332	11.219	5.924	10.614	5.516	10.009	5.109	9.404	4.701	8.678	4.212
28	18	11.161	9.318	10.586	8.914	10.011	8.509	9.436	8.105	8.862	7.701	8.172	7.215
	19	11.499	8.841	10.939	8.367	10.378	7.893	9.818	7.419	9.219	7.252	8.499	7.052
	20	11.824	8.391	11.219	7.983	10.614	7.575	10.009	7.167	9.404	6.759	8.678	6.270
	21	12.153	7.915	11.519	7.448	10.885	6.982	10.251	6.515	9.617	6.048	8.856	5.488
	22	12.482	7.440	11.819	6.914	11.156	6.389	10.493	5.863	9.830	5.337	9.035	4.706
	23	12.811	6.965	12.119	6.380	11.427	5.795	10.735	5.211	10.044	4.626	9.213	3.924
30	20	11.824	9.420	11.219	9.012	10.614	8.604	10.009	8.196	9.404	7.789	8.678	7.299
	21	12.153	8.944	11.519	8.478	10.885	8.011	10.251	7.544	9.617	7.077	8.856	6.517
	22	12.482	8.469	11.819	7.943	11.156	7.418	10.493	6.892	9.830	6.366	9.035	5.736
	23	12.811	7.994	12.119	7.409	11.427	6.825	10.735	6.240	10.044	5.655	9.213	4.954
	24	13.140	7.519	12.419	6.875	11.698	6.231	10.978	5.588	10.257	4.944	9.392	4.172

HEATING MODE

ID DB°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	6.113	6.113	6.918	6.918	7.187	7.187	10.142	10.142	11.753	11.753	12.559	12.559	13.365	13.365
17	5.952	5.952	6.871	6.871	7.035	7.035	10.130	10.130	11.638	11.638	12.450	12.450	13.262	13.262
19	5.792	5.792	6.823	6.823	6.884	6.884	10.117	10.117	11.522	11.522	12.341	12.341	13.160	13.160
21	5.632	5.632	6.685	6.685	6.732	6.732	10.006	10.006	11.407	11.407	12.232	12.232	13.057	13.057
23	5.472	5.472	6.455	6.455	6.580	6.580	9.795	9.795	11.292	11.292	12.123	12.123	12.954	12.954
25	5.311	5.311	6.225	6.225	6.428	6.428	9.583	9.583	11.176	11.176	12.014	12.014	12.852	12.852
27	5.151	5.151	5.995	5.995	6.277	6.277	9.372	9.372	11.061	11.061	11.905	11.905	12.749	12.749
FROST REGION														

**R410A MODELS
A SERIES (HEAT PUMP)**

**MODEL : A5CK 40AR / A5LC 40CR (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	11.323	7.578	10.819	6.979	10.239	6.462	9.658	5.946	9.078	5.430	8.381	4.811
	16	11.740	7.136	11.194	6.619	10.610	6.143	10.026	5.667	9.442	5.191	8.740	4.620
24	16	11.740	9.178	11.194	8.660	10.610	8.184	10.026	7.709	9.442	7.233	8.740	6.662
	17	12.157	8.736	11.569	8.300	10.981	7.865	10.393	7.429	9.805	6.994	9.100	6.471
	18	12.609	8.255	12.003	7.876	11.397	7.496	10.792	7.116	10.186	6.737	9.459	6.281
	19	13.076	7.743	12.528	7.258	11.979	6.774	11.430	6.289	10.698	6.199	9.818	6.090
	20	13.508	7.268	12.838	6.866	12.168	6.464	11.498	6.063	10.828	5.661	10.024	5.179
	24	15.294	7.281	14.439	6.568	13.585	5.856	12.730	5.143	11.875	4.430	10.849	3.574
28	18	12.609	10.297	12.003	9.917	11.397	9.538	10.792	9.158	10.186	8.778	9.459	8.323
	19	13.076	9.785	12.528	9.300	11.979	8.816	11.430	8.331	10.698	8.241	9.818	8.132
	20	13.508	9.310	12.838	8.908	12.168	8.506	11.498	8.104	10.828	7.703	10.024	7.220
	21	13.954	8.802	13.238	8.323	12.522	7.843	11.806	7.364	11.090	6.884	10.231	6.309
	22	14.401	8.295	13.639	7.738	12.876	7.181	12.114	6.623	11.352	6.066	10.437	5.397
	23	14.848	7.788	14.039	7.153	13.230	6.518	12.422	5.883	11.613	5.248	10.643	4.486
30	20	13.508	10.330	12.838	9.929	12.168	9.527	11.498	9.125	10.828	8.723	10.024	8.241
	21	13.954	9.823	13.238	9.344	12.522	8.864	11.806	8.385	11.090	7.905	10.231	7.330
	22	14.401	9.316	13.639	8.759	12.876	8.202	12.114	7.644	11.352	7.087	10.437	6.418
	23	14.848	8.809	14.039	8.174	13.230	7.539	12.422	6.904	11.613	6.269	10.643	5.507
	24	15.294	8.302	14.439	7.589	13.585	6.876	12.730	6.163	11.875	5.451	10.849	4.595

HEATING MODE

ID DB°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	7.264	7.264	8.222	8.222	8.541	8.541	12.052	12.052	13.968	13.968	14.925	14.925	15.883	15.883
17	7.074	7.074	8.098	8.098	8.341	8.341	12.038	12.038	13.728	13.728	14.679	14.679	15.629	15.629
19	6.883	6.883	7.975	7.975	8.141	8.141	12.024	12.024	13.488	13.488	14.432	14.432	15.376	15.376
21	6.693	6.693	7.788	7.788	7.942	7.942	11.828	11.828	13.249	13.249	14.185	14.185	15.122	15.122
23	6.503	6.503	7.538	7.538	7.742	7.742	11.452	11.452	13.009	13.009	13.939	13.939	14.868	14.868
25	6.312	6.312	7.287	7.287	7.542	7.542	11.075	11.075	12.770	12.770	13.692	13.692	14.615	14.615
27	6.122	6.122	7.037	7.037	7.342	7.342	10.699	10.699	12.530	12.530	13.446	13.446	14.361	14.361
FROST REGION														

**R410A MODELS
A SERIES (HEAT PUMP)**

**MODEL: A5CK 50AR / A5LC 50CR
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	13.822	9.032	13.155	8.384	12.383	7.842	11.610	7.300	10.837	6.757	9.910	6.107
	16	14.367	8.533	13.661	7.980	12.902	7.480	12.143	6.981	11.384	6.481	10.473	5.881
24	16	14.367	10.704	13.661	10.151	12.902	9.651	12.143	9.152	11.384	8.652	10.473	8.052
	17	14.912	10.204	14.167	9.747	13.421	9.290	12.676	8.833	11.930	8.376	11.036	7.827
	18	15.506	9.655	14.755	9.260	14.003	8.865	13.252	8.471	12.501	8.076	11.599	7.602
	19	16.125	9.063	15.488	8.513	14.850	7.964	14.213	7.415	13.281	7.398	12.162	7.377
	20	16.684	8.526	15.863	8.098	15.043	7.670	14.222	7.242	13.402	6.814	12.417	6.300
28	18	15.506	11.826	14.755	11.431	14.003	11.036	13.252	10.642	12.501	10.247	11.599	9.773
	19	16.125	11.234	15.488	10.684	14.850	10.135	14.213	9.586	13.281	9.569	12.162	9.548
	20	16.684	10.697	15.863	10.269	15.043	9.841	14.222	9.413	13.402	8.985	12.417	8.471
	21	17.267	10.116	16.383	9.593	15.500	9.069	14.616	8.546	13.733	8.022	12.673	7.394
	22	17.850	9.536	16.903	8.917	15.957	8.298	15.010	7.679	14.064	7.060	12.928	6.317
	23	18.433	8.955	17.423	8.241	16.414	7.526	15.404	6.812	14.395	6.097	13.183	5.240
30	20	16.684	11.782	15.863	11.354	15.043	10.926	14.222	10.498	13.402	10.070	12.417	9.556
	21	17.267	11.202	16.383	10.678	15.500	10.155	14.616	9.631	13.733	9.108	12.673	8.479
	22	17.850	10.621	16.903	10.002	15.957	9.383	15.010	8.764	14.064	8.145	12.928	7.402
	23	18.433	10.041	17.423	9.326	16.414	8.612	15.404	7.897	14.395	7.183	13.183	6.325
	24	19.016	9.460	17.943	8.650	16.871	7.840	15.798	7.030	14.726	6.220	13.439	5.248

HEATING MODE

ID DB°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	8.682	8.682	9.826	9.826	10.208	10.208	14.404	14.404	16.693	16.693	17.837	17.837	18.982	18.982
17	8.454	8.454	9.706	9.706	9.943	9.943	14.387	14.387	16.271	16.271	17.388	17.388	18.505	18.505
19	8.226	8.226	9.585	9.585	9.679	9.679	14.370	14.370	15.850	15.850	16.939	16.939	18.028	18.028
21	7.999	7.999	9.349	9.349	9.414	9.414	14.053	14.053	15.428	15.428	16.489	16.489	17.551	17.551
23	7.771	7.771	8.998	8.998	9.149	9.149	13.438	13.438	15.007	15.007	16.040	16.040	17.074	17.074
25	7.544	7.544	8.646	8.646	8.885	8.885	12.822	12.822	14.585	14.585	15.591	15.591	16.597	16.597
27	7.316	7.316	8.294	8.294	8.620	8.620	12.207	12.207	14.163	14.163	15.141	15.141	16.120	16.120
FROST REGION														

**R410A MODELS
C SERIES (COOLING ONLY)**

MODEL : A5CK 10C / A5LC 10C

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	3.368	2.102	3.102	1.836	2.839	1.574	2.577	1.311	2.314	1.049	1.999	0.734
	16	3.410	1.946	3.152	1.703	2.897	1.461	2.641	1.220	2.385	0.979	2.079	0.689
24	16	3.410	2.667	3.152	2.424	2.897	2.182	2.641	1.941	2.385	1.700	2.079	1.410
	17	3.451	2.511	3.203	2.291	2.954	2.070	2.705	1.850	2.457	1.629	2.158	1.365
	18	3.491	2.354	3.250	2.155	3.009	1.956	2.768	1.757	2.527	1.558	2.238	1.319
	19	3.529	2.197	3.281	2.025	3.034	1.852	2.787	1.680	2.573	1.495	2.317	1.274
	20	3.570	2.032	3.339	1.845	3.107	1.657	2.875	1.470	2.644	1.282	2.366	1.057
28	18	3.491	3.075	3.250	2.876	3.009	2.677	2.768	2.478	2.527	2.279	2.238	2.041
	19	3.529	2.918	3.281	2.746	3.034	2.573	2.787	2.401	2.573	2.217	2.317	1.995
	20	3.570	2.753	3.339	2.566	3.107	2.378	2.875	2.191	2.644	2.003	2.366	1.778
	21	3.609	2.589	3.379	2.392	3.150	2.194	2.920	1.996	2.690	1.798	2.415	1.561
	22	3.648	2.426	3.420	2.218	3.192	2.010	2.964	1.802	2.737	1.594	2.463	1.344
	23	3.687	2.262	3.461	2.043	3.235	1.825	3.009	1.607	2.783	1.389	2.512	1.127
30	24	3.725	2.098	3.501	1.869	3.277	1.641	3.053	1.412	2.829	1.184	2.561	0.910
	20	3.570	3.114	3.339	2.926	3.107	2.739	2.875	2.551	2.644	2.364	2.366	2.139
	21	3.609	2.950	3.379	2.752	3.150	2.555	2.920	2.357	2.690	2.159	2.415	1.922
	22	3.648	2.786	3.420	2.578	3.192	2.370	2.964	2.162	2.737	1.954	2.463	1.705
	23	3.687	2.622	3.461	2.404	3.235	2.186	3.009	1.968	2.783	1.749	2.512	1.488
	24	3.725	2.458	3.501	2.230	3.277	2.001	3.053	1.773	2.829	1.545	2.561	1.270

MODEL : A5CK 15C / A5LC 15C

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	4.113	2.652	3.829	2.367	3.560	2.098	3.291	1.828	3.022	1.559	2.699	1.235
	16	4.206	2.485	3.923	2.227	3.647	1.976	3.371	1.725	3.096	1.475	2.765	1.174
24	16	4.206	3.324	3.923	3.066	3.647	2.815	3.371	2.564	3.096	2.313	2.765	2.012
	17	4.298	3.157	4.016	2.925	3.734	2.693	3.452	2.461	3.169	2.229	2.830	1.951
	18	4.384	2.984	4.098	2.774	3.812	2.563	3.526	2.353	3.240	2.142	2.896	1.889
	19	4.474	2.814	4.204	2.643	3.935	2.472	3.666	2.300	3.346	2.086	2.962	1.828
	20	4.555	2.629	4.261	2.418	3.966	2.208	3.672	1.997	3.377	1.787	3.024	1.534
28	18	4.384	3.823	4.098	3.612	3.812	3.402	3.526	3.191	3.240	2.981	2.896	2.728
	19	4.474	3.653	4.204	3.482	3.935	3.310	3.666	3.139	3.346	2.924	2.962	2.667
	20	4.555	3.468	4.261	3.257	3.966	3.046	3.672	2.836	3.377	2.625	3.024	2.373
	21	4.641	3.286	4.342	3.054	4.043	2.821	3.744	2.589	3.445	2.357	3.086	2.079
	22	4.726	3.104	4.423	2.850	4.119	2.597	3.816	2.343	3.513	2.089	3.149	1.785
	23	4.812	2.922	4.504	2.647	4.196	2.372	3.888	2.096	3.580	1.821	3.211	1.491
30	24	4.897	2.740	4.585	2.443	4.273	2.147	3.960	1.850	3.648	1.553	3.273	1.197
	20	4.555	3.887	4.261	3.676	3.966	3.466	3.672	3.255	3.377	3.045	3.024	2.792
	21	4.641	3.705	4.342	3.473	4.043	3.241	3.744	3.009	3.445	2.777	3.086	2.498
	22	4.726	3.523	4.423	3.269	4.119	3.016	3.816	2.762	3.513	2.509	3.149	2.204
	23	4.812	3.341	4.504	3.066	4.196	2.791	3.888	2.516	3.580	2.241	3.211	1.910
	24	4.897	3.159	4.585	2.863	4.273	2.566	3.960	2.269	3.648	1.973	3.273	1.617

**R410A MODELS
C SERIES (COOLING ONLY)**

MODEL : A5CK 20C / A5LC 20C (1 PHASE)

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	5.088	3.181	4.804	3.009	4.471	2.880	4.138	2.751	3.804	2.622	3.405	2.467
	16	5.271	3.059	4.981	2.913	4.666	2.788	4.352	2.664	4.037	2.539	3.660	2.390
24	16	5.271	3.596	4.981	3.450	4.666	3.325	4.352	3.200	4.037	3.076	3.660	2.926
	17	5.454	3.473	5.158	3.353	4.862	3.233	4.566	3.113	4.270	2.993	3.915	2.849
	18	5.660	3.331	5.373	3.224	5.087	3.116	4.800	3.008	4.514	2.901	4.170	2.771
	19	5.871	3.187	5.624	3.079	5.376	2.971	5.129	2.863	4.809	2.786	4.426	2.694
	20	6.065	3.036	5.768	2.899	5.470	2.762	5.173	2.625	4.875	2.488	4.518	2.324
28	18	5.660	3.868	5.373	3.760	5.087	3.652	4.800	3.545	4.514	3.437	4.170	3.308
	19	5.871	3.723	5.624	3.615	5.376	3.508	5.129	3.400	4.809	3.323	4.426	3.231
	20	6.065	3.573	5.768	3.436	5.470	3.299	5.173	3.162	4.875	3.025	4.518	2.860
	21	6.265	3.420	5.947	3.241	5.629	3.062	5.311	2.883	4.993	2.704	4.611	2.490
	22	6.464	3.266	6.126	3.046	5.787	2.825	5.449	2.605	5.111	2.384	4.704	2.120
	23	6.664	3.113	6.305	2.851	5.946	2.589	5.587	2.326	5.228	2.064	4.797	1.749
30	20	6.065	3.841	5.768	3.704	5.470	3.567	5.173	3.430	4.875	3.293	4.518	3.128
	21	6.265	3.688	5.947	3.509	5.629	3.330	5.311	3.151	4.993	2.973	4.611	2.758
	22	6.464	3.535	6.126	3.314	5.787	3.094	5.449	2.873	5.111	2.652	4.704	2.388
	23	6.664	3.382	6.305	3.119	5.946	2.857	5.587	2.595	5.228	2.332	4.797	2.017
	24	6.864	3.229	6.484	2.925	6.105	2.620	5.725	2.316	5.346	2.012	4.890	1.647

MODEL : ACK 20C / A5LC 20C (3 PHASE)

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	5.443	3.766	5.030	3.353	4.628	2.951	4.226	2.548	3.824	2.146	3.341	1.663
	16	5.629	3.522	5.236	3.145	4.847	2.774	4.459	2.403	4.071	2.032	3.605	1.587
24	16	5.629	4.481	5.236	4.105	4.847	3.734	4.459	3.363	4.071	2.992	3.605	2.547
	17	5.816	4.237	5.441	3.898	5.067	3.558	4.692	3.218	4.318	2.878	3.869	2.471
	18	5.997	3.988	5.638	3.682	5.280	3.375	4.921	3.069	4.563	2.762	4.132	2.395
	19	6.186	3.741	5.883	3.474	5.579	3.207	5.275	2.940	4.876	2.658	4.396	2.319
	20	6.353	3.480	5.995	3.187	5.636	2.893	5.277	2.600	4.919	2.307	4.489	1.955
28	18	5.997	4.948	5.638	4.642	5.280	4.335	4.921	4.029	4.563	3.722	4.132	3.354
	19	6.186	4.700	5.883	4.434	5.579	4.167	5.275	3.900	4.876	3.617	4.396	3.278
	20	6.353	4.439	5.995	4.146	5.636	3.853	5.277	3.560	4.919	3.267	4.489	2.915
	21	6.528	4.180	6.154	3.867	5.779	3.553	5.405	3.240	5.030	2.927	4.581	2.552
	22	6.703	3.920	6.313	3.587	5.923	3.254	5.532	2.921	5.142	2.588	4.673	2.188
	23	6.878	3.660	6.472	3.307	6.066	2.954	5.659	2.601	5.253	2.248	4.766	1.825
30	24	7.053	3.401	6.631	3.028	6.209	2.655	5.787	2.282	5.364	1.909	4.858	1.461
	20	6.353	4.919	5.995	4.626	5.636	4.333	5.277	4.040	4.919	3.747	4.489	3.395
	21	6.528	4.660	6.154	4.346	5.779	4.033	5.405	3.720	5.030	3.407	4.581	3.031
	22	6.703	4.400	6.313	4.067	5.923	3.734	5.532	3.401	5.142	3.068	4.673	2.668
	23	6.878	4.140	6.472	3.787	6.066	3.434	5.659	3.081	5.253	2.728	4.766	2.305
24	7.053	3.881	6.631	3.508	6.209	3.135	5.787	2.762	5.364	2.389	4.858	1.941	

**R410A MODELS
C SERIES (HEAT PUMP)**

**MODEL : A5CK 10CR / 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	3.368	2.102	3.102	1.836	2.839	1.574	2.577	1.311	2.314	1.049	1.999	0.734
	16	3.410	1.946	3.152	1.703	2.897	1.461	2.641	1.220	2.385	0.979	2.079	0.689
24	16	3.410	2.667	3.152	2.424	2.897	2.182	2.641	1.941	2.385	1.700	2.079	1.410
	17	3.451	2.511	3.203	2.291	2.954	2.070	2.705	1.850	2.457	1.629	2.158	1.365
	18	3.491	2.354	3.250	2.155	3.009	1.956	2.768	1.757	2.527	1.558	2.238	1.319
	19	3.529	2.197	3.281	2.025	3.034	1.852	2.787	1.680	2.573	1.495	2.317	1.274
	20	3.570	2.032	3.339	1.845	3.107	1.657	2.875	1.470	2.644	1.282	2.366	1.057
28	18	3.491	3.075	3.250	2.876	3.009	2.677	2.768	2.478	2.527	2.279	2.238	2.041
	19	3.529	2.918	3.281	2.746	3.034	2.573	2.787	2.401	2.573	2.217	2.317	1.995
	20	3.570	2.753	3.339	2.566	3.107	2.378	2.875	2.191	2.644	2.003	2.366	1.778
	21	3.609	2.589	3.379	2.392	3.150	2.194	2.920	1.996	2.690	1.798	2.415	1.561
	22	3.648	2.426	3.420	2.218	3.192	2.010	2.964	1.802	2.737	1.594	2.463	1.344
	23	3.687	2.262	3.461	2.043	3.235	1.825	3.009	1.607	2.783	1.389	2.512	1.127
	24	3.725	2.098	3.501	1.869	3.277	1.641	3.053	1.412	2.829	1.184	2.561	0.910
30	20	3.570	3.114	3.339	2.926	3.107	2.739	2.875	2.551	2.644	2.364	2.366	2.139
	21	3.609	2.950	3.379	2.752	3.150	2.555	2.920	2.357	2.690	2.159	2.415	1.922
	22	3.648	2.786	3.420	2.578	3.192	2.370	2.964	2.162	2.737	1.954	2.463	1.705
	23	3.687	2.622	3.461	2.404	3.235	2.186	3.009	1.968	2.783	1.749	2.512	1.488
	24	3.725	2.458	3.501	2.230	3.277	2.001	3.053	1.773	2.829	1.545	2.561	1.270

HEATING MODE

ID DB°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	1.882	1.882	1.939	1.939	2.789	2.789	3.213	3.213	3.438	3.438	3.663	3.663
19	1.595	1.595	1.858	1.858	1.899	1.899	2.786	2.786	3.190	3.190	3.418	3.418	3.645	3.645
21	1.551	1.551	1.820	1.820	1.859	1.859	2.760	2.760	3.166	3.166	3.397	3.397	3.628	3.628
23	1.507	1.507	1.766	1.766	1.818	1.818	2.713	2.713	3.143	3.143	3.377	3.377	3.610	3.610
25	1.463	1.463	1.712	1.712	1.778	1.778	2.665	2.665	3.120	3.120	3.356	3.356	3.593	3.593
27	1.418	1.418	1.658	1.658	1.738	1.738	2.617	2.617	3.096	3.096	3.336	3.336	3.576	3.576
FROST REGION														

**R410A MODELS
C SERIES (HEAT PUMP)**

**MODEL : A5CK 15CR / 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	4.113	2.652	3.829	2.367	3.560	2.098	3.291	1.828	3.022	1.559	2.699	1.235
	16	4.206	2.485	3.923	2.227	3.647	1.976	3.371	1.725	3.096	1.475	2.765	1.174
24	16	4.206	3.324	3.923	3.066	3.647	2.815	3.371	2.564	3.096	2.313	2.765	2.012
	17	4.298	3.157	4.016	2.925	3.734	2.693	3.452	2.461	3.169	2.229	2.830	1.951
	18	4.384	2.984	4.098	2.774	3.812	2.563	3.526	2.353	3.240	2.142	2.896	1.889
	19	4.474	2.814	4.204	2.643	3.935	2.472	3.666	2.300	3.346	2.086	2.962	1.828
	20	4.555	2.629	4.261	2.418	3.966	2.208	3.672	1.997	3.377	1.787	3.024	1.534
28	18	4.384	3.823	4.098	3.612	3.812	3.402	3.526	3.191	3.240	2.981	2.896	2.728
	19	4.474	3.653	4.204	3.482	3.935	3.310	3.666	3.139	3.346	2.924	2.962	2.667
	20	4.555	3.468	4.261	3.257	3.966	3.046	3.672	2.836	3.377	2.625	3.024	2.373
	21	4.641	3.286	4.342	3.054	4.043	2.821	3.744	2.589	3.445	2.357	3.086	2.079
	22	4.726	3.104	4.423	2.850	4.119	2.597	3.816	2.343	3.513	2.089	3.149	1.785
	23	4.812	2.922	4.504	2.647	4.196	2.372	3.888	2.096	3.580	1.821	3.211	1.491
30	24	4.897	2.740	4.585	2.443	4.273	2.147	3.960	1.850	3.648	1.553	3.273	1.197
	20	4.555	3.887	4.261	3.676	3.966	3.466	3.672	3.255	3.377	3.045	3.024	2.792
	21	4.641	3.705	4.342	3.473	4.043	3.241	3.744	3.009	3.445	2.777	3.086	2.498
	22	4.726	3.523	4.423	3.269	4.119	3.016	3.816	2.762	3.513	2.509	3.149	2.204
	23	4.812	3.341	4.504	3.066	4.196	2.791	3.888	2.516	3.580	2.241	3.211	1.910
	24	4.897	3.159	4.585	2.863	4.273	2.566	3.960	2.269	3.648	1.973	3.273	1.617

HEATING MODE

ID DB°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	2.038	2.038	2.306	2.306	2.396	2.396	3.381	3.381	3.918	3.918	4.186	4.186	4.455	4.455
17	1.984	1.984	2.286	2.286	2.336	2.336	3.377	3.377	3.830	3.830	4.094	4.094	4.357	4.357
19	1.931	1.931	2.267	2.267	2.276	2.276	3.372	3.372	3.742	3.742	4.001	4.001	4.260	4.260
21	1.877	1.877	2.214	2.214	2.216	2.216	3.305	3.305	3.654	3.654	3.908	3.908	4.162	4.162
23	1.824	1.824	2.128	2.128	2.156	2.156	3.174	3.174	3.566	3.566	3.815	3.815	4.064	4.064
25	1.770	1.770	2.042	2.042	2.096	2.096	3.043	3.043	3.478	3.478	3.722	3.722	3.966	3.966
27	1.717	1.717	1.956	1.956	2.036	2.036	2.912	2.912	3.391	3.391	3.630	3.630	3.869	3.869
FROST REGION														

**R410A MODELS
C SERIES (HEAT PUMP)**

**MODEL : A5CK 20CR / 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	5.088	3.181	4.804	3.009	4.471	2.880	4.138	2.751	3.804	2.622	3.405	2.467
	16	5.271	3.059	4.981	2.913	4.666	2.788	4.352	2.664	4.037	2.539	3.660	2.390
24	16	5.271	3.596	4.981	3.450	4.666	3.325	4.352	3.200	4.037	3.076	3.660	2.926
	17	5.454	3.473	5.158	3.353	4.862	3.233	4.566	3.113	4.270	2.993	3.915	2.849
	18	5.660	3.331	5.373	3.224	5.087	3.116	4.800	3.008	4.514	2.901	4.170	2.771
	19	5.871	3.187	5.624	3.079	5.376	2.971	5.129	2.863	4.809	2.786	4.426	2.694
	20	6.065	3.036	5.768	2.899	5.470	2.762	5.173	2.625	4.875	2.488	4.518	2.324
28	18	5.660	3.868	5.373	3.760	5.087	3.652	4.800	3.545	4.514	3.437	4.170	3.308
	19	5.871	3.723	5.624	3.615	5.376	3.508	5.129	3.400	4.809	3.323	4.426	3.231
	20	6.065	3.573	5.768	3.436	5.470	3.299	5.173	3.162	4.875	3.025	4.518	2.860
	21	6.265	3.420	5.947	3.241	5.629	3.062	5.311	2.883	4.993	2.704	4.611	2.490
	22	6.464	3.266	6.126	3.046	5.787	2.825	5.449	2.605	5.111	2.384	4.704	2.120
	23	6.664	3.113	6.305	2.851	5.946	2.589	5.587	2.326	5.228	2.064	4.797	1.749
	24	6.864	2.960	6.484	2.656	6.105	2.352	5.725	2.048	5.346	1.744	4.890	1.379
30	20	6.065	3.841	5.768	3.704	5.470	3.567	5.173	3.430	4.875	3.293	4.518	3.128
	21	6.265	3.688	5.947	3.509	5.629	3.330	5.311	3.151	4.993	2.973	4.611	2.758
	22	6.464	3.535	6.126	3.314	5.787	3.094	5.449	2.873	5.111	2.652	4.704	2.388
	23	6.664	3.382	6.305	3.119	5.946	2.857	5.587	2.595	5.228	2.332	4.797	2.017
	24	6.864	3.229	6.484	2.925	6.105	2.620	5.725	2.316	5.346	2.012	4.890	1.647

HEATING MODE

ID DB°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	3.101	3.101	3.509	3.509	3.646	3.646	5.144	5.144	5.962	5.962	6.371	6.371	6.779	6.779
17	3.019	3.019	3.395	3.395	3.566	3.566	5.138	5.138	5.889	5.889	6.299	6.299	6.709	6.709
19	2.938	2.938	3.281	3.281	3.486	3.486	5.132	5.132	5.817	5.817	6.228	6.228	6.639	6.639
21	2.857	2.857	3.196	3.196	3.407	3.407	5.067	5.067	5.745	5.745	6.157	6.157	6.570	6.570
23	2.775	2.775	3.140	3.140	3.327	3.327	4.943	4.943	5.672	5.672	6.086	6.086	6.500	6.500
25	2.694	2.694	3.085	3.085	3.248	3.248	4.819	4.819	5.600	5.600	6.015	6.015	6.430	6.430
27	2.613	2.613	3.029	3.029	3.168	3.168	4.695	4.695	5.527	5.527	5.944	5.944	6.360	6.360
FROST REGION														

**R410A MODELS
C SERIES (HEAT PUMP)**

**MODEL : A5CK 20CR / 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	5.443	3.766	5.030	3.353	4.628	2.951	4.226	2.548	3.824	2.146	3.341	1.663
	16	5.629	3.522	5.236	3.145	4.847	2.774	4.459	2.403	4.071	2.032	3.605	1.587
24	16	5.629	4.481	5.236	4.105	4.847	3.734	4.459	3.363	4.071	2.992	3.605	2.547
	17	5.816	4.237	5.441	3.898	5.067	3.558	4.692	3.218	4.318	2.878	3.869	2.471
	18	5.997	3.988	5.638	3.682	5.280	3.375	4.921	3.069	4.563	2.762	4.132	2.395
	19	6.186	3.741	5.883	3.474	5.579	3.207	5.275	2.940	4.876	2.658	4.396	2.319
	20	6.353	3.480	5.995	3.187	5.636	2.893	5.277	2.600	4.919	2.307	4.489	1.955
28	18	5.997	4.948	5.638	4.642	5.280	4.335	4.921	4.029	4.563	3.722	4.132	3.354
	19	6.186	4.700	5.883	4.434	5.579	4.167	5.275	3.900	4.876	3.617	4.396	3.278
	20	6.353	4.439	5.995	4.146	5.636	3.853	5.277	3.560	4.919	3.267	4.489	2.915
	21	6.528	4.180	6.154	3.867	5.779	3.553	5.405	3.240	5.030	2.927	4.581	2.552
	22	6.703	3.920	6.313	3.587	5.923	3.254	5.532	2.921	5.142	2.588	4.673	2.188
	23	6.878	3.660	6.472	3.307	6.066	2.954	5.659	2.601	5.253	2.248	4.766	1.825
30	20	6.353	4.919	5.995	4.626	5.636	4.333	5.277	4.040	4.919	3.747	4.489	3.395
	21	6.528	4.660	6.154	4.346	5.779	4.033	5.405	3.720	5.030	3.407	4.581	3.031
	22	6.703	4.400	6.313	4.067	5.923	3.734	5.532	3.401	5.142	3.068	4.673	2.668
	23	6.878	4.140	6.472	3.787	6.066	3.434	5.659	3.081	5.253	2.728	4.766	2.305
	24	7.053	3.881	6.631	3.508	6.209	3.135	5.787	2.762	5.364	2.389	4.858	1.941

HEATING MODE

ID DB°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	3.680	3.680	3.770	3.770	5.432	5.432	6.228	6.228	6.662	6.662	7.096	7.096
19	3.106	3.106	3.649	3.649	3.686	3.686	5.425	5.425	6.154	6.154	6.589	6.589	7.025	7.025
21	3.020	3.020	3.573	3.573	3.603	3.603	5.358	5.358	6.080	6.080	6.517	6.517	6.954	6.954
23	2.934	2.934	3.450	3.450	3.519	3.519	5.229	5.229	6.005	6.005	6.444	6.444	6.883	6.883
25	2.848	2.848	3.327	3.327	3.435	3.435	5.101	5.101	5.931	5.931	6.371	6.371	6.812	6.812
27	2.762	2.762	3.204	3.204	3.352	3.352	4.973	4.973	5.857	5.857	6.299	6.299	6.741	6.741
FROST REGION														

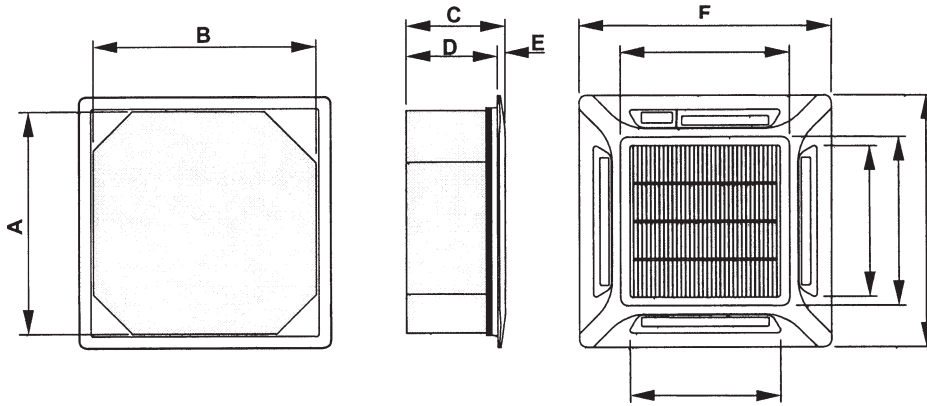
7. DIMENSIONAL DATA

INDOOR UNIT

ACK/ A5CK 20/ 25/ 30/ 40/ 50 A/AR

ACK 15/ 20/ 25 B/BR

ACK / A5CK 10/15/20 C/CR

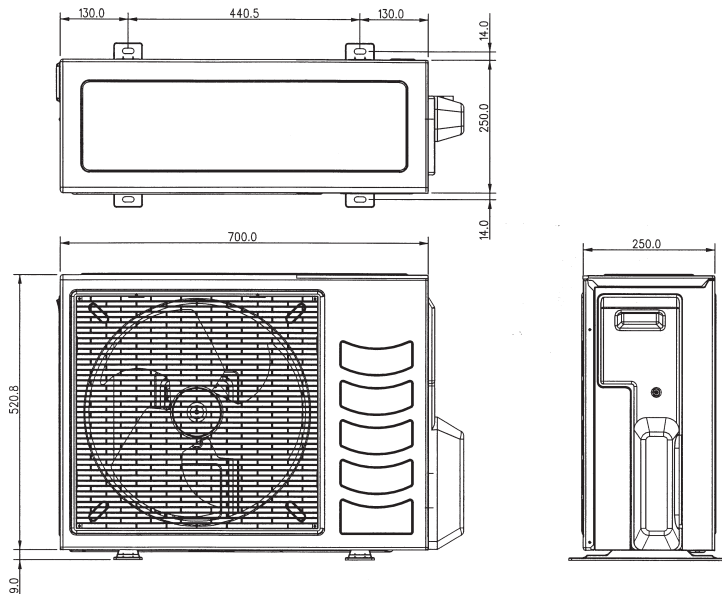


MODEL	A	B	C	D	E	F	G	H	I	J	K
ACK-A	820	820	378	350	28	930	930	626	626	555	555
ACK-B	650	650	362	340	22	727	727	489	489	444	444
ACK-C	570	570	295	275	20	640	640	408	408	364	364

Note : All Dimension in mm

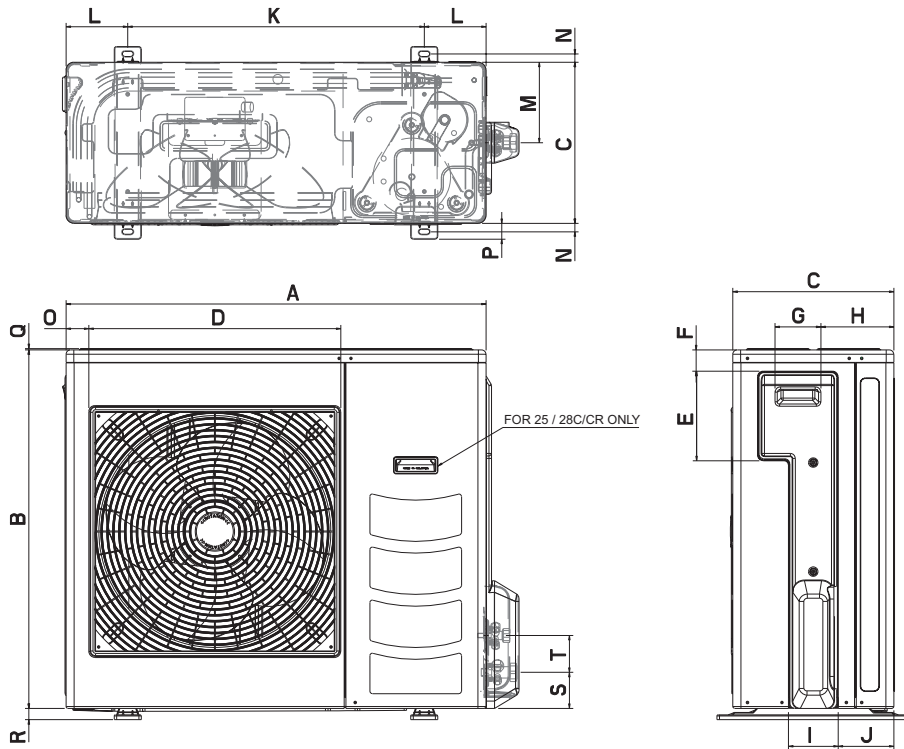
OUTDOOR UNIT

ALC / A5LC 10/ 15C/CR



Note : All Dimension in mm

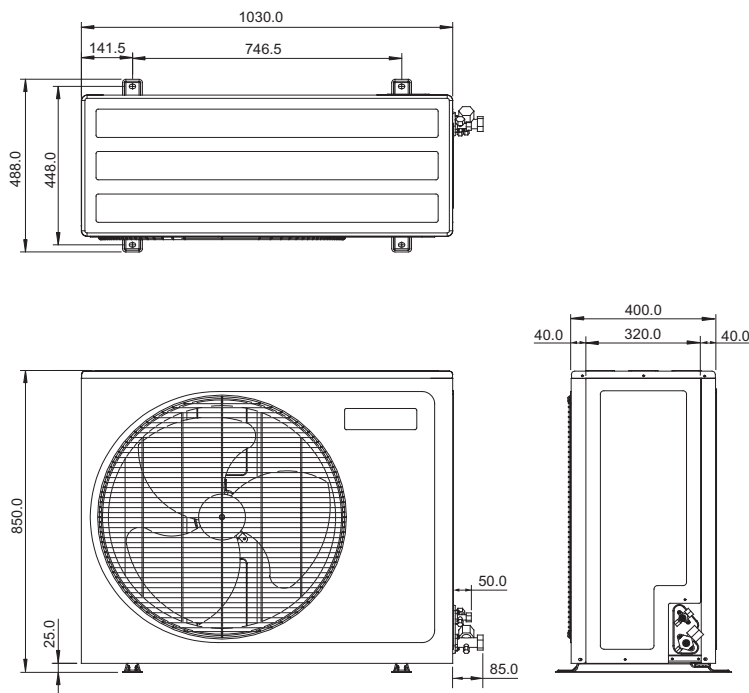
ALC 18C/CR
ALC / A5LC 20/ 25/ 28C/CR



Note : All Dimension in mm

MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
18C, 20C/CR	855	628	328	508	181	44	93	149	101	113	603	126	164	17	49	32	3	23	73	75
25/28C/CR	855	730	328	513	182	44	93	149	101	113	603	126	164	17	47	32	3	23	73	75

ALC / A4LC 30/ 35/ 40/ 50C/CR
A5LC 35/ 40/ 50C/CR



Note : All Dimension in mm

8. ELECTRICAL DATA

ELECTRICAL DATA - COOLING ONLY (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 20A	
	OUTDOOR UNIT		ALC 18C	ALC 20C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	122	
	RATED RUNNING CURRENT	A	0.53	
	MOTOR OUTPUT	W	35	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	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	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR	μF	60.0	60.0
	RATED INPUT POWER	W	1658	1689
	RATED RUNNING CURRENT	A	7.54	7.14
	LOCKED ROTOR AMP.	A	32	32

MODEL	INDOOR UNIT		ACK 25A	
	OUTDOOR UNIT		ALC 25C	
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	138	
	RATED RUNNING CURRENT	A	0.61	
	MOTOR OUTPUT	W	50	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	124	
	RATED RUNNING CURRENT	A	0.54	
	MOTOR OUTPUT	W	64	
	POLES		6	
COMPRESSOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR	μF	50.0	
	RATED INPUT POWER	W	2340	
	RATED RUNNING CURRENT	A	10.49	
	LOCKED ROTOR AMP.	A	54	

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ELECTRICAL DATA - COOLING ONLY (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 30A	
	OUTDOOR UNIT		ALC 28C	ALC 30C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	153	
	RATED RUNNING CURRENT	A	0.67	
	MOTOR OUTPUT	W	60	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	142	220
	RATED RUNNING CURRENT	A	0.62	1.02
	MOTOR OUTPUT	W	75	145
	POLES		6	8
COMPRESSOR	INSULATION GRADE		CLASS E	
	POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR - 1Ø / <3Ø>	µF	50.0	50.0 / <NIL>
	RATED INPUT POWER - 1Ø / <3Ø>	W	2659	2337 / <3050>
	RATED RUNNING CURRENT - 1Ø / <3Ø>	A	13.5	11.4 / <5.2>
	LOCKED ROTOR AMP. - 1Ø / <3Ø>	A	66	82 / <35>

MODEL	INDOOR UNIT		ACK 40A	
	OUTDOOR UNIT		ALC 35C	ALC 40C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	184	
	RATED RUNNING CURRENT	A	0.80	
	MOTOR OUTPUT	W	83	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	220	
	RATED RUNNING CURRENT	A	1.02	
	MOTOR OUTPUT	W	145	
	POLES		8	
COMPRESSOR	INSULATION GRADE		-	-
	POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz	220 - 240 / 1 / 50 <380 - 415 / 3 / 50>	
	CAPACITOR - 1Ø / <3Ø>	µF	60.0	60.0 / <NIL>
	RATED INPUT POWER - 1Ø / <3Ø>	W	2716	2926 / <2896>
	RATED RUNNING CURRENT - 1Ø / <3Ø>	A	13.3	15.8 / <5.2>
	LOCKED ROTOR AMP. - 1Ø / <3Ø>	A	97	114 / <48>

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ELECTRICAL DATA - COOLING ONLY (R22) - ACK - A SERIES

MODEL	INDOOR UNIT	ACK 50A	
	OUTDOOR UNIT	ALC 50C	
INDOOR MOTOR	INSULATION GRADE		CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50
	RATED INPUT POWER	W	232
	RATED RUNNING CURRENT	A	1.02
	MOTOR OUTPUT	W	120
	POLES		6
OUTDOOR MOTOR	INSULATION GRADE		CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50
	RATED INPUT POWER	W	220
	RATED RUNNING CURRENT	A	1.02
	MOTOR OUTPUT	W	145
	POLES		8
COMPRESSOR	INSULATION GRADE		-
	POWER SOURCE	V/Ph/Hz	380 - 415 / 3 / 50
	CAPACITOR	μF	NIL
	RATED INPUT POWER	W	3988
	RATED RUNNING CURRENT	A	7.4
	LOCKED ROTOR AMP.	A	66

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ELECTRICAL DATA - HEAT PUMP (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 20AR	
	OUTDOOR UNIT		ALC 18CR	ALC 20CR
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	122	
	RATED RUNNING CURRENT	A	0.53	
	MOTOR OUTPUT	W	35	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	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	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR	μF	60.0	60.0
	RATED INPUT POWER (COOLING)	W	1658	1689
	RATED INPUT POWER (HEATING)	W	1488	1701
	RATED RUNNING CURRENT (COOLING)	A	7.5	7.14
	RATED RUNNING CURRENT (HEATING)	A	6.6	7.24
	LOCKED ROTOR AMP.	A	32	32

MODEL	INDOOR UNIT		ACK 25AR	
	OUTDOOR UNIT		ALC 25CR	
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	138	
	RATED RUNNING CURRENT	A	0.61	
	MOTOR OUTPUT	W	50	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	124	
	RATED RUNNING CURRENT	A	0.54	
	MOTOR OUTPUT	W	64	
	POLES		6	
COMPRESSOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR	μF	50.0	
	RATED INPUT POWER (COOLING)	W	2340	
	RATED INPUT POWER (HEATING)	W	2260	
	RATED RUNNING CURRENT (COOLING)	A	10.49	
	RATED RUNNING CURRENT (HEATING)	A	10.24	
	LOCKED ROTOR AMP.	A	54	

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ELECTRICAL DATA - HEAT PUMP (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 30AR	
	OUTDOOR UNIT		ALC 28CR	ALC 30CR
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	153	
	RATED RUNNING CURRENT	A	0.67	
	MOTOR OUTPUT	W	60	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	142	220
	RATED RUNNING CURRENT	A	0.62	1.02
	MOTOR OUTPUT	W	75	145
	POLES		6	8
COMPRESSOR	INSULATION GRADE		CLASS E	
	POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz	220 - 240 / 1 / 50 <380 - 415 / 3 / 50>	
	CAPACITOR - 1Ø / <3Ø>	µF	50.0	50.0 / <NIL>
	RATED INPUT POWER (COOLING) - 1Ø / <3Ø>	W	2659	2207 / <2160>
	RATED INPUT POWER (HEATING) - 1Ø / <3Ø>	W	2373	2107 / <2057>
	RATED RUNNING CURRENT (COOLING) - 1Ø / <3Ø>	A	13.5	10.0 / <4.8>
	RATED RUNNING CURRENT (HEATING) - 1Ø / <3Ø>	A	12.4	9.5 / <4.6>
	LOCKED ROTOR AMP. - 1Ø / <3Ø>	A	66	82 / <40>

MODEL	INDOOR UNIT		ACK 40AR	
	OUTDOOR UNIT		ALC 35CR	ALC 40CR
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	184	
	RATED RUNNING CURRENT	A	0.80	
	MOTOR OUTPUT	W	83	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	220	
	RATED RUNNING CURRENT	A	1.02	
	MOTOR OUTPUT	W	145	
	POLES		8	
COMPRESSOR	INSULATION GRADE		-	-
	POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz	220 - 240 / 1 / 50 <380 - 415 / 3 / 50>	
	CAPACITOR - 1Ø / <3Ø>	µF	60	60 / <NIL>
	RATED INPUT POWER (COOLING) - 1Ø / <3Ø>	W	2635	3102 / <3072>
	RATED INPUT POWER (HEATING) - 1Ø / <3Ø>	W	2576	2942 / <2912>
	RATED RUNNING CURRENT (COOLING) - 1Ø / <3Ø>	A	13.4	15.2 / <4.6>
	RATED RUNNING CURRENT (HEATING) - 1Ø / <3Ø>	A	13.3	14.4 / <3.8>
	LOCKED ROTOR AMP. - 1Ø / <3Ø>	A	97	114 / <48>

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ELECTRICAL DATA - HEAT PUMP (R22) - ACK - A SERIES

MODEL	INDOOR UNIT		ACK 50AR
	OUTDOOR UNIT		ALC 50CR
INDOOR MOTOR	INSULATION GRADE		CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50
	RATED INPUT POWER	W	232
	RATED RUNNING CURRENT	A	1.02
	MOTOR OUTPUT	W	120
	POLES		6
OUTDOOR MOTOR	INSULATION GRADE		CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50
	RATED INPUT POWER	W	220
	RATED RUNNING CURRENT	A	1.02
	MOTOR OUTPUT	W	145
	POLES		8
COMPRESSOR	INSULATION GRADE		-
	POWER SOURCE	V/Ph/Hz	380 - 415 / 3 / 50
	CAPACITOR	μF	NIL
	RATED INPUT POWER (COOLING)	W	3998
	RATED INPUT POWER (HEATING)	W	3718
	RATED RUNNING CURRENT (COOLING)	A	7.7
	RATED RUNNING CURRENT (HEATING)	A	7.2
	LOCKED ROTOR AMP.	A	66

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ELECTRICAL DATA - COOLING ONLY (R22) - ACK - B SERIES

MODEL	INDOOR UNIT		ACK 15B	ACK 20B
	OUTDOOR UNIT		ALC 15C	ALC 20C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	66	68
	RATED RUNNING CURRENT	A	0.29	0.30
	MOTOR OUTPUT	W	22	22
	POLES		6	6
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	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	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR	μF	30.0	60.0
	RATED INPUT POWER	W	1069	1640
	RATED RUNNING CURRENT	A	4.8	7.2
	LOCKED ROTOR AMP.	A	21	32

MODEL	INDOOR UNIT		ACK 25B
	OUTDOOR UNIT		ALC 25C
INDOOR MOTOR	INSULATION GRADE		CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50
	RATED INPUT POWER	W	66
	RATED RUNNING CURRENT	A	0.29
	MOTOR OUTPUT	W	30
	POLES		6
OUTDOOR MOTOR	INSULATION GRADE		CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50
	RATED INPUT POWER	W	124
	RATED RUNNING CURRENT	A	0.54
	MOTOR OUTPUT	W	55
	POLES		6
COMPRESSOR	INSULATION GRADE		CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50
	CAPACITOR	μF	50.0
	RATED INPUT POWER	W	2340
	RATED RUNNING CURRENT	A	10.5
	LOCKED ROTOR AMP.	A	54

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ELECTRICAL DATA - HEAT PUMP (R22) - ACK - B SERIES

MODEL	INDOOR UNIT		ACK 15BR	ACK 20BR
	OUTDOOR UNIT		ALC 15CR	ALC 20CR
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	66	68
	RATED RUNNING CURRENT	A	0.29	0.30
	MOTOR OUTPUT	W	22	22
	POLES		6	6
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	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	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR	μF	30.0	60.0
	RATED INPUT POWER (COOLING)	W	1069	1640
	RATED INPUT POWER (HEATING)	W	909	1590
	RATED RUNNING CURRENT (COOLING)	A	4.8	7.2
	RATED RUNNING CURRENT (HEATING)	A	4.1	7.0
	LOCKED ROTOR AMP.	A	21	32

MODEL	INDOOR UNIT		ACK 25BR	
	OUTDOOR UNIT		ALC 25CR	
INDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	66	
	RATED RUNNING CURRENT	A	0.29	
	MOTOR OUTPUT	W	30	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	124	
	RATED RUNNING CURRENT	A	0.54	
	MOTOR OUTPUT	W	55	
	POLES		6	
COMPRESSOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR	μF	50.0	
	RATED INPUT POWER (COOLING)	W	2340	
	RATED INPUT POWER (HEATING)	W	2260	
	RATED RUNNING CURRENT (COOLING)	A	10.5	
	RATED RUNNING CURRENT (HEATING)	A	10.2	
	LOCKED ROTOR AMP.	A	54	

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 2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI 210/240-94.

ELECTRICAL DATA - COOLING ONLY (R22) - ACK - C SERIES

MODEL	INDOOR UNIT		ACK 10C		ACK 15C	
	OUTDOOR UNIT		ALC 10C		ALC 15C	
INDOOR MOTOR	INSULATION GRADE		CLASS E			
	POWER SOURCE		220 - 240 / 1 / 50			
	RATED INPUT POWER		W		54	
	RATED RUNNING CURRENT		A		0.23	
	MOTOR OUTPUT		W		16	
	POLES				6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B			
	POWER SOURCE		220 - 240 / 1 / 50			
	RATED INPUT POWER		W		52	
	RATED RUNNING CURRENT		A		0.23	
	MOTOR OUTPUT		W		35	
	POLES				6	
COMPRESSOR	INSULATION GRADE		CLASS E			
	POWER SOURCE		220 - 240 / 1 / 50			
	CAPACITOR		μF		30.0	
	RATED INPUT POWER		W		783	
	RATED RUNNING CURRENT		A		3.5	
	LOCKED ROTOR AMP.		A		19	

MODEL	INDOOR UNIT		ACK 20C			
	OUTDOOR UNIT		ALC 18C		ALC 20C	
INDOOR MOTOR	INSULATION GRADE		CLASS E			
	POWER SOURCE		220 - 240 / 1 / 50			
	RATED INPUT POWER		W		72	
	RATED RUNNING CURRENT		A		0.32	
	MOTOR OUTPUT		W		22	
	POLES				6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B			
	POWER SOURCE		220 - 240 / 1 / 50			
	RATED INPUT POWER		W		120	
	RATED RUNNING CURRENT		A		0.53	
	MOTOR OUTPUT		W		64	
	POLES				6	
COMPRESSOR	INSULATION GRADE		CLASS E			
	POWER SOURCE		220 - 240 / 1 / 50			
	CAPACITOR		μF		60.0	
	RATED INPUT POWER		W		1652	
	RATED RUNNING CURRENT		A		7.4	
	LOCKED ROTOR AMP.		A		32	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
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ELECTRICAL DATA - HEAT PUMP (R22) - ACK - C SERIES

MODEL	INDOOR UNIT		ACK 10CR		ACK 15CR	
	OUTDOOR UNIT		ALC 10CR		ALC 15CR	
INDOOR MOTOR	INSULATION GRADE		CLASS E			
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50			
	RATED INPUT POWER	W	54		60	
	RATED RUNNING CURRENT	A	0.23		0.27	
	MOTOR OUTPUT	W	16		18	
	POLES		6		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B			
	POWER SOURCE	V/Ph/Hz	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			
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50			
	CAPACITOR	μF	30.0		30.0	
	RATED INPUT POWER (COOLING)	W	783		1087	
	RATED INPUT POWER (HEATING)	W	673		937	
	RATED RUNNING CURRENT (COOLING)	A	3.3		4.8	
	RATED RUNNING CURRENT (HEATING)	A	2.9		4.2	
	LOCKED ROTOR AMP.	A	19		21	

MODEL	INDOOR UNIT		ACK 20CR			
	OUTDOOR UNIT		ALC 18R		ALC 20CR	
INDOOR MOTOR	INSULATION GRADE		CLASS E			
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50			
	RATED INPUT POWER	W	72			
	RATED RUNNING CURRENT	A	0.32			
	MOTOR OUTPUT	W	22			
	POLES		6			
OUTDOOR MOTOR	INSULATION GRADE		CLASS B			
	POWER SOURCE	V/Ph/Hz	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			
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50			
	CAPACITOR	μF	60.0		60.0	
	RATED INPUT POWER (COOLING)	W	1652		1640	
	RATED INPUT POWER (HEATING)	W	1492		1590	
	RATED RUNNING CURRENT (COOLING)	A	7.4		7.2	
	RATED RUNNING CURRENT (HEATING)	A	6.7		7.0	
	LOCKED ROTOR AMP.	A	32		32	

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ELECTRICAL DATA - COOLING ONLY (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 20A		A5CK 25A	
	OUTDOOR UNIT		A5LC 20C		A5LC 25C	
INDOOR MOTOR	INSULATION GRADE		CLASS E			
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50			
	RATED INPUT POWER	W	122		138	
	RATED RUNNING CURRENT	A	0.53		0.61	
	MOTOR OUTPUT	W	35		45	
	POLES		6		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B			
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50			
	RATED INPUT POWER	W	120		132	
	RATED RUNNING CURRENT	A	0.53		0.58	
	MOTOR OUTPUT	W	64		64	
	POLES		6		6	
COMPRESSOR	INSULATION GRADE		CLASS E			
	POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz	220 - 240 / 1 / 50 / <380 - 415 / 3 / 50>			
	CAPACITOR - 1Ø / <3Ø>	µF	50.0 / <NIL>		50.0 / <NIL>	
	RATED INPUT POWER - 1Ø / <3Ø>	W	1461 / <1536>		1733 / <1990>	
	RATED RUNNING CURRENT - 1Ø / <3Ø>	A	6.4 / <3.0>		7.7 / <3.8>	
	LOCKED ROTOR AMP. - 1Ø / <3Ø>	A	27 / <19>		32 / <26>	

MODEL	INDOOR UNIT		A5CK 30A			
	OUTDOOR UNIT		A5LC 28C		A5LC 35C	
INDOOR MOTOR	INSULATION GRADE		CLASS E			
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50			
	RATED INPUT POWER	W	153			
	RATED RUNNING CURRENT	A	0.67			
	MOTOR OUTPUT	W	60			
	POLES		6			
OUTDOOR MOTOR	INSULATION GRADE		CLASS B			
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50			
	RATED INPUT POWER	W	142		220	
	RATED RUNNING CURRENT	A	0.62		1.02	
	MOTOR OUTPUT	W	75		145	
	POLES		6		8	
COMPRESSOR	INSULATION GRADE		CLASS E			
	POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz	220 - 240 / 1 / 50 / <380 - 415 / 3 / 50>			
	CAPACITOR - 1Ø / <3Ø>	µF	45.0 / <NIL>		60.0 / <NIL>	
	RATED INPUT POWER - 1Ø / <3Ø>	W	2385 / <2434>		2547 / <2447>	
	RATED RUNNING CURRENT - 1Ø / <3Ø>	A	11.45 / <4.29>		12.70 / <4.75>	
	LOCKED ROTOR AMP. - 1Ø / <3Ø>	A	65 / <26>		97 / <48>	

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ELECTRICAL DATA - COOLING ONLY (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 40A	
	OUTDOOR UNIT		A5LC 35C	A5LC 40C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	184	
	RATED RUNNING CURRENT	A	0.80	
	MOTOR OUTPUT	W	83	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	220	
	RATED RUNNING CURRENT	A	1.02	
	MOTOR OUTPUT	W	145	
	POLES		8	
COMPRESSOR	INSULATION GRADE		-	-
	POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz	220 - 240 / 1 / 50 / <380 - 415 / 3 / 50>	
	CAPACITOR - 1Ø / <3Ø>	µF	60.0 / <NIL>	40.0 x 2 / <NIL>
	RATED INPUT POWER - 1Ø / <3Ø>	W	2547 / <2476>	3430
	RATED RUNNING CURRENT - 1Ø / <3Ø>	A	12.70 / <4.70>	16.30
	LOCKED ROTOR AMP. - 1Ø / <3Ø>	A	97 / <48>	136 / <64>

MODEL	INDOOR UNIT		A5CK 50A	
	OUTDOOR UNIT		A5LC 50C	
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	232	
	RATED RUNNING CURRENT	A	1.02	
	MOTOR OUTPUT	W	120	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	575	
	RATED RUNNING CURRENT	A	2.54	
	MOTOR OUTPUT	W	600	
	POLES		6	
COMPRESSOR	INSULATION GRADE		-	
	POWER SOURCE	V/Ph/Hz	380 - 415 / 3 / 50	
	CAPACITOR	µF	NIL	
	RATED INPUT POWER	W	4193	
	RATED RUNNING CURRENT	A	7.54	
	LOCKED ROTOR AMP.	A	74	

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ELECTRICAL DATA - HEAT PUMP (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 20AR		A5CK 25AR	
	OUTDOOR UNIT		A5LC 20CR		A5LC 25CR	
INDOOR MOTOR	INSULATION GRADE		CLASS E			
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50			
	RATED INPUT POWER	W	122		138	
	RATED RUNNING CURRENT	A	0.53		0.61	
	MOTOR OUTPUT	W	35		45	
	POLES		6		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B			
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50			
	RATED INPUT POWER	W	120		132	
	RATED RUNNING CURRENT	A	0.53		0.58	
	MOTOR OUTPUT	W	64		64	
	POLES		6		6	
COMPRESSOR	INSULATION GRADE		CLASS E			
	POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz	220 - 240 / 1 / 50 / <380 - 415 / 3 / 50>			
	CAPACITOR - 1Ø / <3Ø>	µF	50.0 / <NIL>		50.0 / <NIL>	
	RATED INPUT POWER (COOLING) - 1Ø / <3Ø>	W	1461 / <1536>		1733 / <1990>	
	RATED INPUT POWER (HEATING) - 1Ø / <3Ø>	W	1321 / <1331>		1763 / <1883>	
	RATED RUNNING CURRENT (COOLING) - 1Ø / <3Ø>	A	6.4 / <3.0>		7.7 / <3.8>	
	RATED RUNNING CURRENT (HEATING) - 1Ø / <3Ø>	A	6.0 / <2.6>		8.0 / <3.6>	
	LOCKED ROTOR AMP. - 1Ø / <3Ø>	A	27 / <19>		32 / <26>	

MODEL	INDOOR UNIT		A5CK 30AR			
	OUTDOOR UNIT		A5LC 28CR		A5LC 35CR	
INDOOR MOTOR	INSULATION GRADE		CLASS E			
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50			
	RATED INPUT POWER	W	153			
	RATED RUNNING CURRENT	A	0.67			
	MOTOR OUTPUT	W	60			
	POLES		6			
OUTDOOR MOTOR	INSULATION GRADE		CLASS B			
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50			
	RATED INPUT POWER	W	142		220	
	RATED RUNNING CURRENT	A	0.62		1.02	
	MOTOR OUTPUT	W	75		145	
	POLES		6		8	
COMPRESSOR	INSULATION GRADE		CLASS E		-	
	POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz	220 - 240 / 1 / 50 / <380 - 415 / 3 / 50>			
	CAPACITOR - 1Ø / <3Ø>	µF	45.0 / <NIL>		60.0 / <NIL>	
	RATED INPUT POWER (COOLING) - 1Ø / <3Ø>	W	2385 / <2434>		2547 / <2447>	
	RATED INPUT POWER (HEATING) - 1Ø / <3Ø>	W	1855 / <2086>		2407 / <2297>	
	RATED RUNNING CURRENT (COOLING) - 1Ø / <3Ø>	A	11.45 / <4.29>		12.70 / <4.75>	
	RATED RUNNING CURRENT (HEATING) - 1Ø / <3Ø>	A	9.30 / <3.89>		11.80 / <4.47>	
	LOCKED ROTOR AMP. - 1Ø / <3Ø>	A	65 / <26>		97 / <48>	

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ELECTRICAL DATA - HEAT PUMP (R410A) - ACK - A SERIES

MODEL	INDOOR UNIT		A5CK 40AR	
	OUTDOOR UNIT		A5LC 35CR	A5LC 40CR
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	184	
	RATED RUNNING CURRENT	A	0.80	
	MOTOR OUTPUT	W	83	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	220	
	RATED RUNNING CURRENT	A	1.02	
	MOTOR OUTPUT	W	145	
	POLES		8	
COMPRESSOR	INSULATION GRADE		-	-
	POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz	220 - 240 / 1 / 50 / <380 - 415 / 3 / 50>	
	CAPACITOR - 1Ø / <3Ø>	µF	60.0 / <NIL>	40.0 x 2 / <NIL>
	RATED INPUT POWER (COOLING) - 1Ø / <3Ø>	W	2547 / <2476>	3430 / <3376>
	RATED INPUT POWER (HEATING) - 1Ø / <3Ø>	W	2407 / <2196>	2906 / <2886>
	RATED RUNNING CURRENT (COOLING) - 1Ø / <3Ø>	A	12.70 / <4.70>	16.30 / <6.33>
	RATED RUNNING CURRENT (HEATING) - 1Ø / <3Ø>	A	11.80 / <4.47>	15.20 / <5.73>
	LOCKED ROTOR AMP. - 1Ø / <3Ø>	A	97 / <48>	136 / <64>

MODEL	INDOOR UNIT		A5CK 50AR	
	OUTDOOR UNIT		A5LC 50CR	
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	232	
	RATED RUNNING CURRENT	A	1.02	
	MOTOR OUTPUT	W	120	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	575	
	RATED RUNNING CURRENT	A	2.54	
	MOTOR OUTPUT	W	600	
	POLES		6	
COMPRESSOR	INSULATION GRADE		-	
	POWER SOURCE	V/Ph/Hz	380 - 415 / 3 / 50	
	CAPACITOR	µF	NIL	
	RATED INPUT POWER (COOLING)	W	4193	
	RATED INPUT POWER (HEATING)	W	3773	
	RATED RUNNING CURRENT (COOLING)	A	7.54	
	RATED RUNNING CURRENT (HEATING)	A	7.3	
LOCKED ROTOR AMP.	A	74		

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ELECTRICAL DATA - HEAT PUMP (R410A) - ACK - C SERIES

MODEL	INDOOR UNIT		A5CK 10C	A5CK 15C
	OUTDOOR UNIT		A5LC 10C	A5LC 15C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	54	60
	RATED RUNNING CURRENT	A	0.23	0.27
	MOTOR OUTPUT	W	16	18
	POLES		6	6
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	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	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR	μF	25.0	30.0
	RATED INPUT POWER	W	844	1142
	RATED RUNNING CURRENT	A	3.54	5.27
	LOCKED ROTOR AMP.	A	19	24

MODEL	INDOOR UNIT		A5CK 20C	
	OUTDOOR UNIT		A5LC 20C	
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	72	
	RATED RUNNING CURRENT	A	0.32	
	MOTOR OUTPUT	W	22	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	120	
	RATED RUNNING CURRENT	A	0.53	
	MOTOR OUTPUT	W	64	
	POLES		6	
COMPRESSOR	INSULATION GRADE		CLASS E	
	POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR - 1Ø / <3Ø>	μF	50.0 / <NIL>	
	RATED INPUT POWER - 1Ø / <3Ø>	W	1498 / <1536>	
	RATED RUNNING CURRENT - 1Ø / <3Ø>	A	7.0 / <3.0>	
	LOCKED ROTOR AMP. - 1Ø / <3Ø>	A	27 / <19>	

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ELECTRICAL DATA - HEAT PUMP (R410A) - ACK - C SERIES

MODEL	INDOOR UNIT		A5CK 10CR	A5CK 15CR
	OUTDOOR UNIT		A5LC 10CR	A5LC 15CR
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	54	60
	RATED RUNNING CURRENT	A	0.23	0.27
	MOTOR OUTPUT	W	16	18
	POLES		6	6
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	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	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	CAPACITOR	μF	25.0	30.0
	RATED INPUT POWER (COOLING)	W	844	1142
	RATED INPUT POWER (HEATING)	W	696	992
	RATED RUNNING CURRENT (COOLING)	A	3.54	5.37
	RATED RUNNING CURRENT (HEATING)	A	3.2	4.07
	LOCKED ROTOR AMP.	A	19	24

MODEL	INDOOR UNIT		A5CK 20CR	
	OUTDOOR UNIT		A5LC 20CR	
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	72	
	RATED RUNNING CURRENT	A	0.32	
	MOTOR OUTPUT	W	22	
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	
	RATED INPUT POWER	W	120	
	RATED RUNNING CURRENT	A	0.53	
	MOTOR OUTPUT	W	64	
	POLES		6	
COMPRESSOR	INSULATION GRADE		CLASS E	
	POWER SOURCE - 1Ø / <3Ø>	V/Ph/Hz	220 - 240 / 1 / 50 / <380 - 415 / 3 / 50>	
	CAPACITOR - 1Ø / <3Ø>	μF	50.0 / <NIL>	
	RATED INPUT POWER (COOLING) - 1Ø / <3Ø>	W	1498 / <1536>	
	RATED INPUT POWER (HEATING) - 1Ø / <3Ø>	W	1328 / <1306>	
	RATED RUNNING CURRENT (COOLING) - 1Ø / <3Ø>	A	7.0 / <3.0>	
	RATED RUNNING CURRENT (HEATING) - 1Ø / <3Ø>	A	7.2 / <2.5>	
LOCKED ROTOR AMP. - 1Ø / <3Ø>	A	27 / <19>		

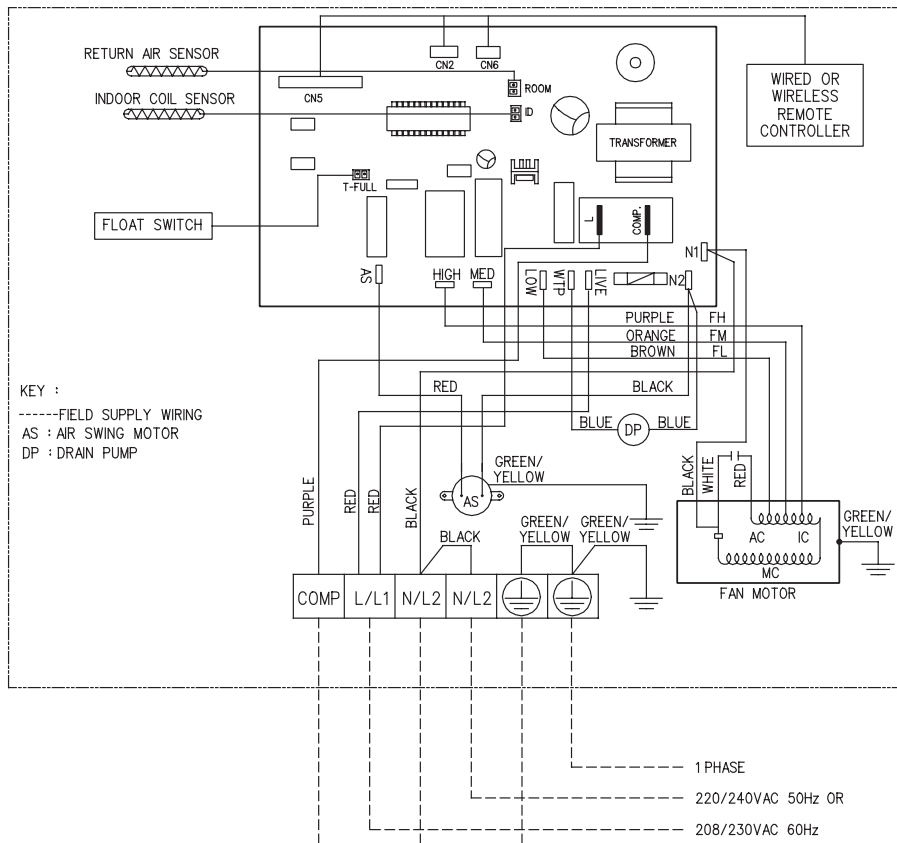
- 1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
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8. WIRING DIAGRAMS

COOLING ONLY

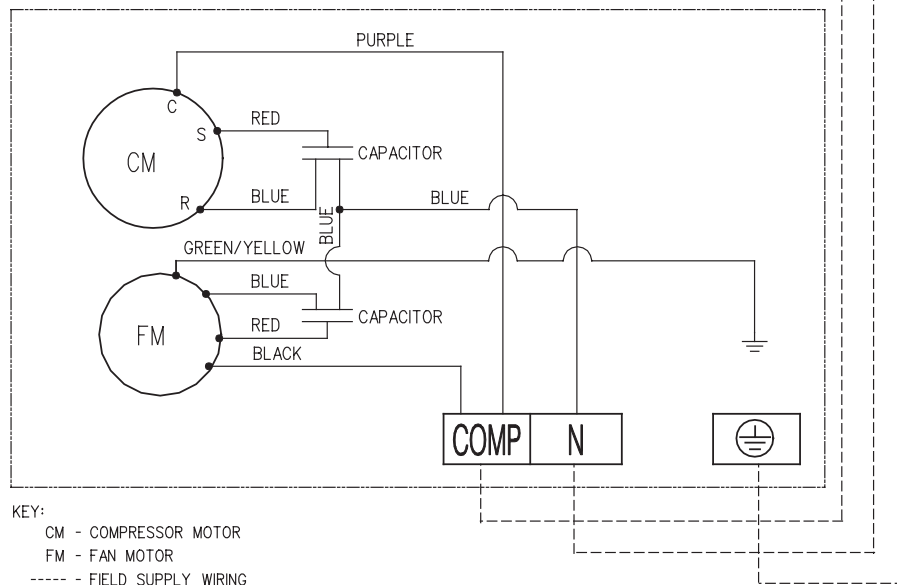
INDOOR UNIT

MODEL : ACK / A5CK 20/25A

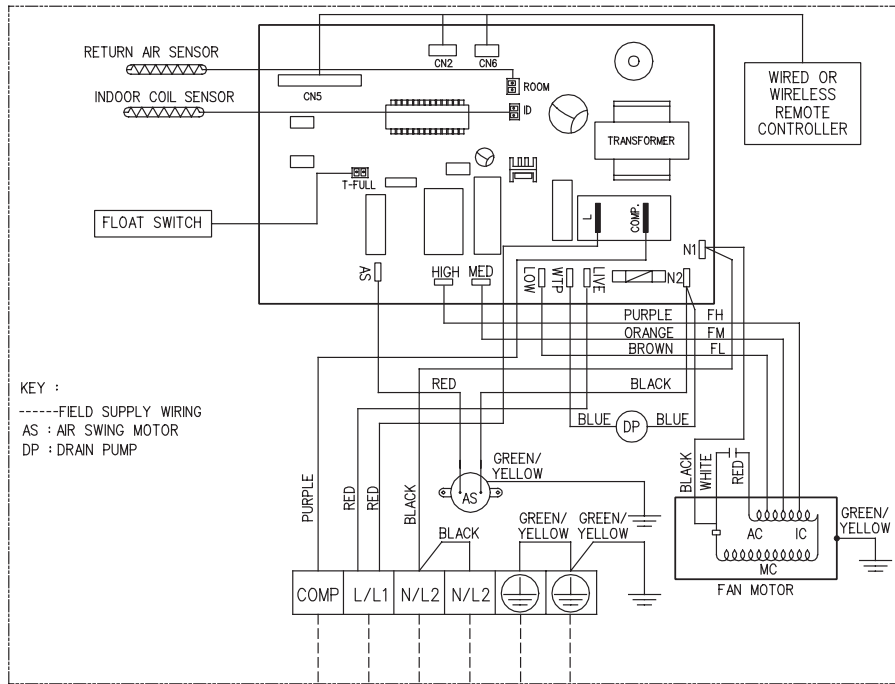


OUTDOOR UNIT

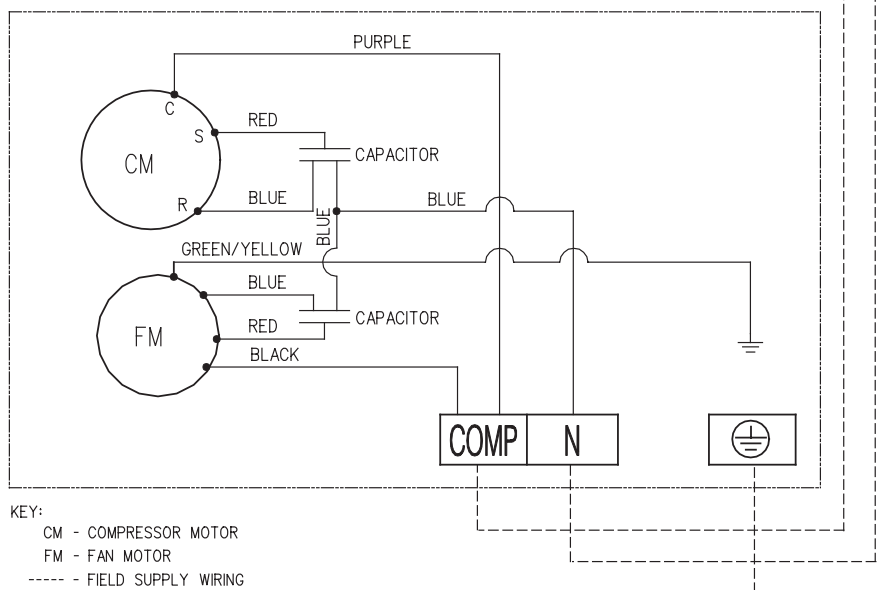
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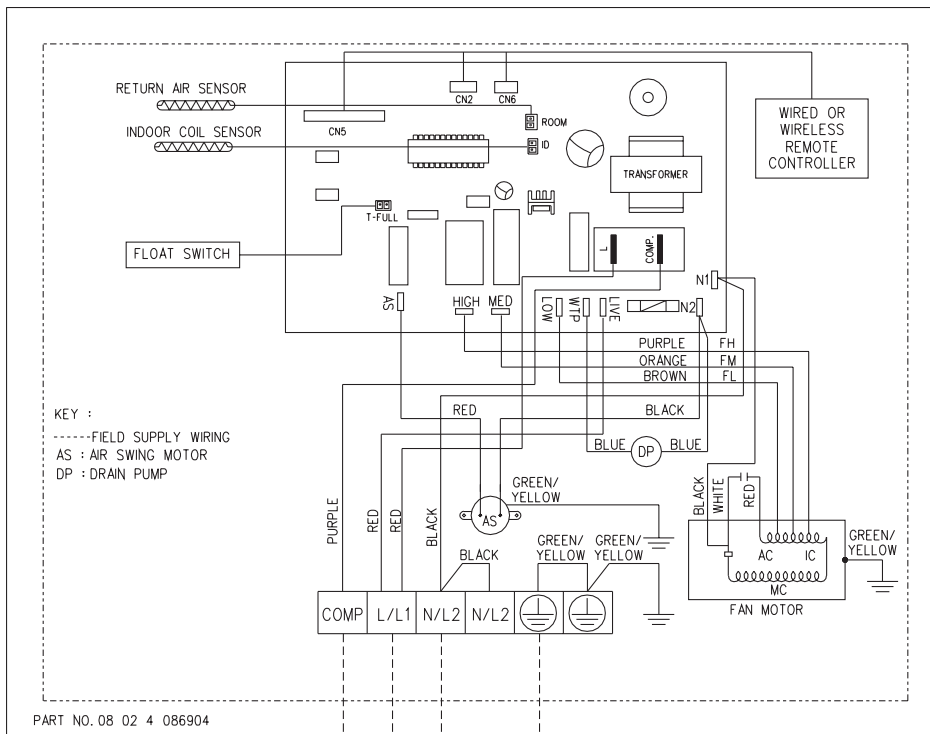
INDOOR UNIT
MODEL : ACK / A5CK 30A



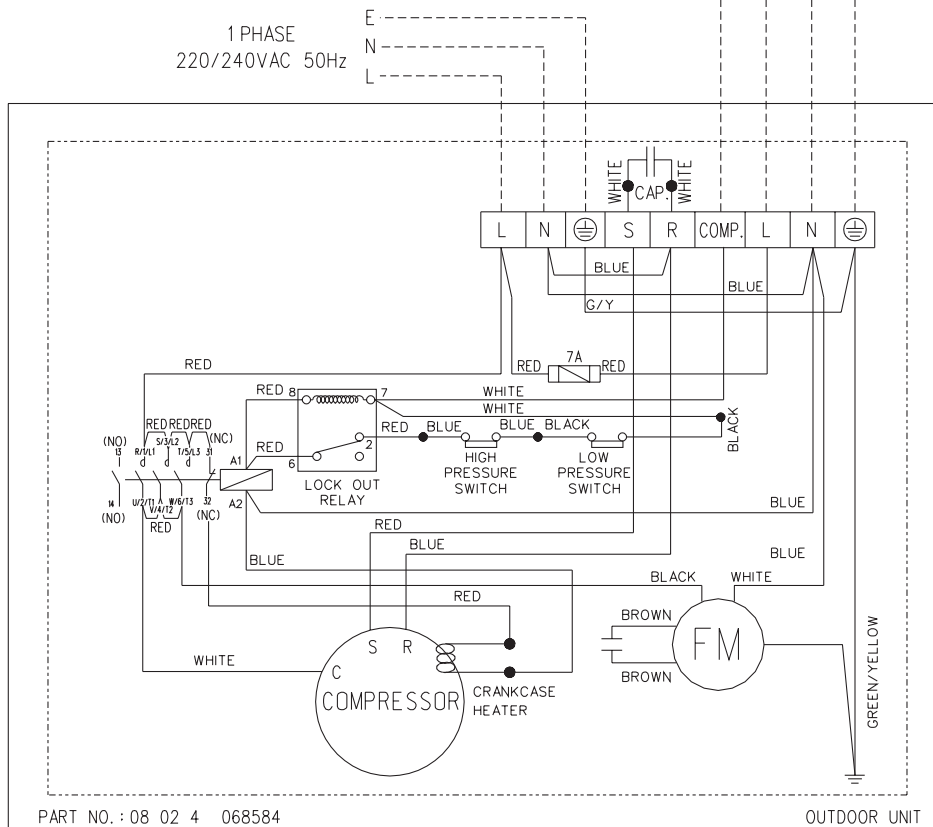
OUTDOOR UNIT
MODEL : ALC / A5LC 28C



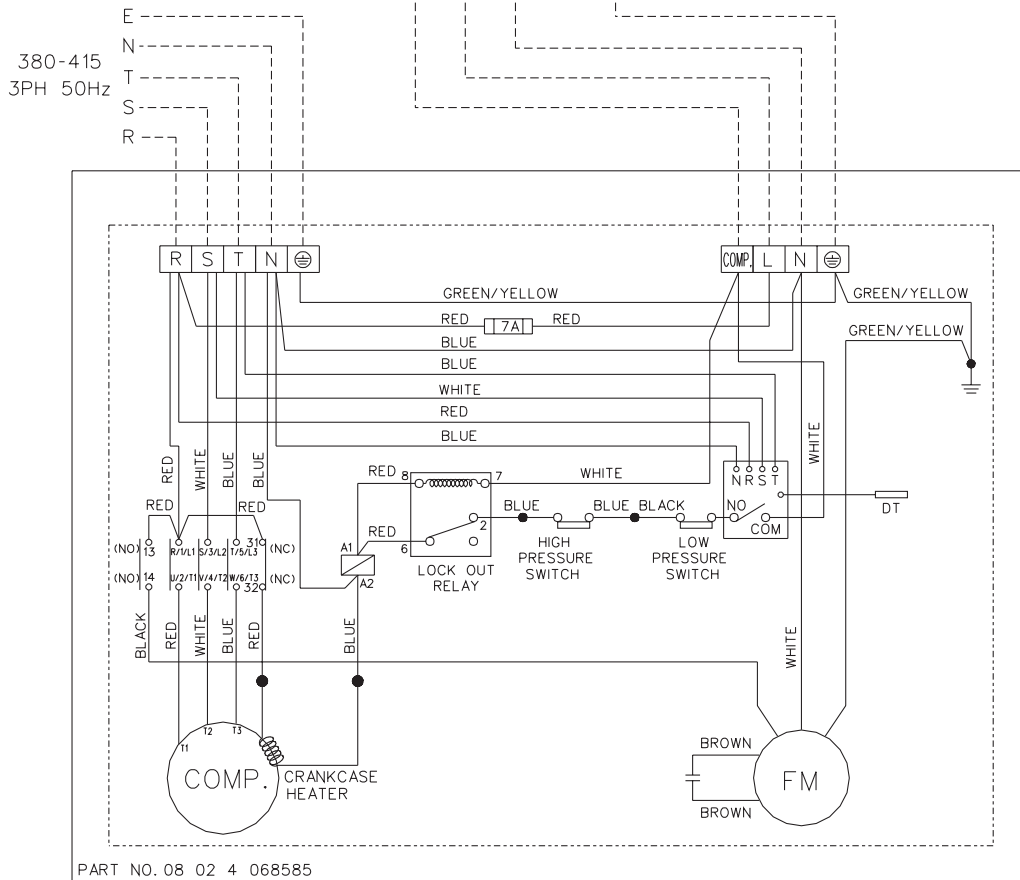
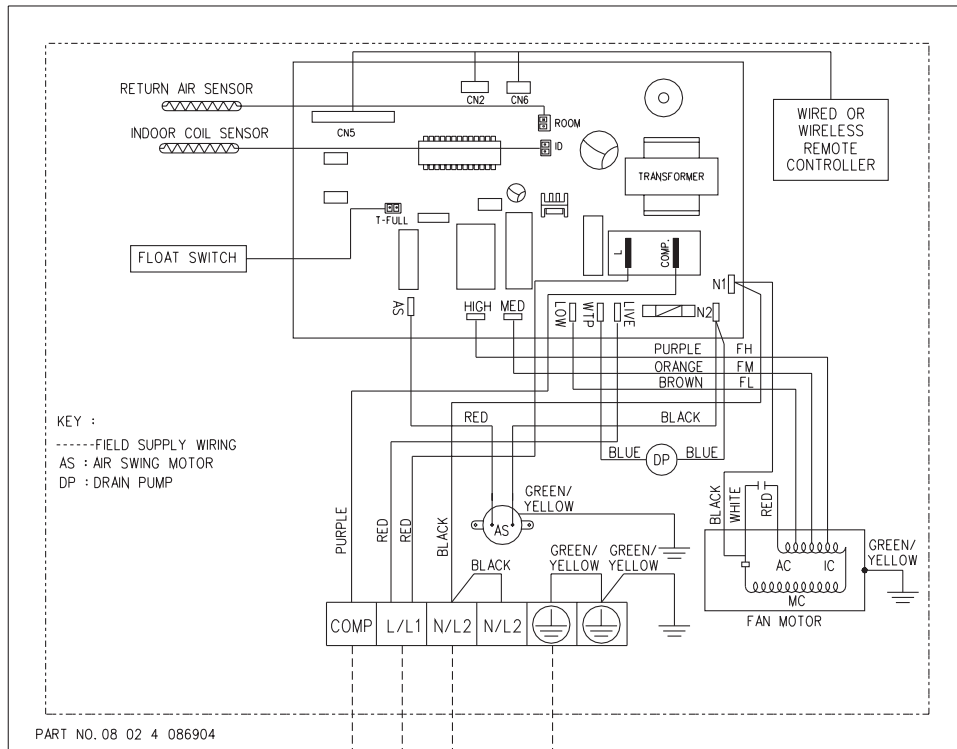
**INDOOR UNIT
MODEL : ACK 030A**



**OUTDOOR UNIT
MODEL : ALC 30C (1 PHASE)**

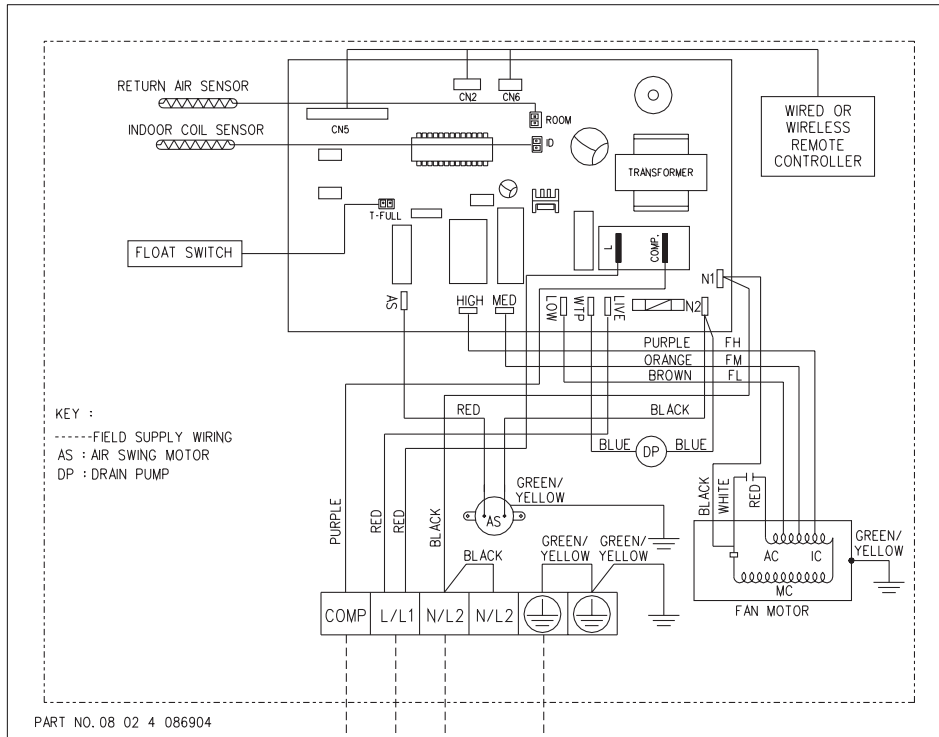


**OUTDOOR UNIT
MODEL : ACK / A5CK 30A**

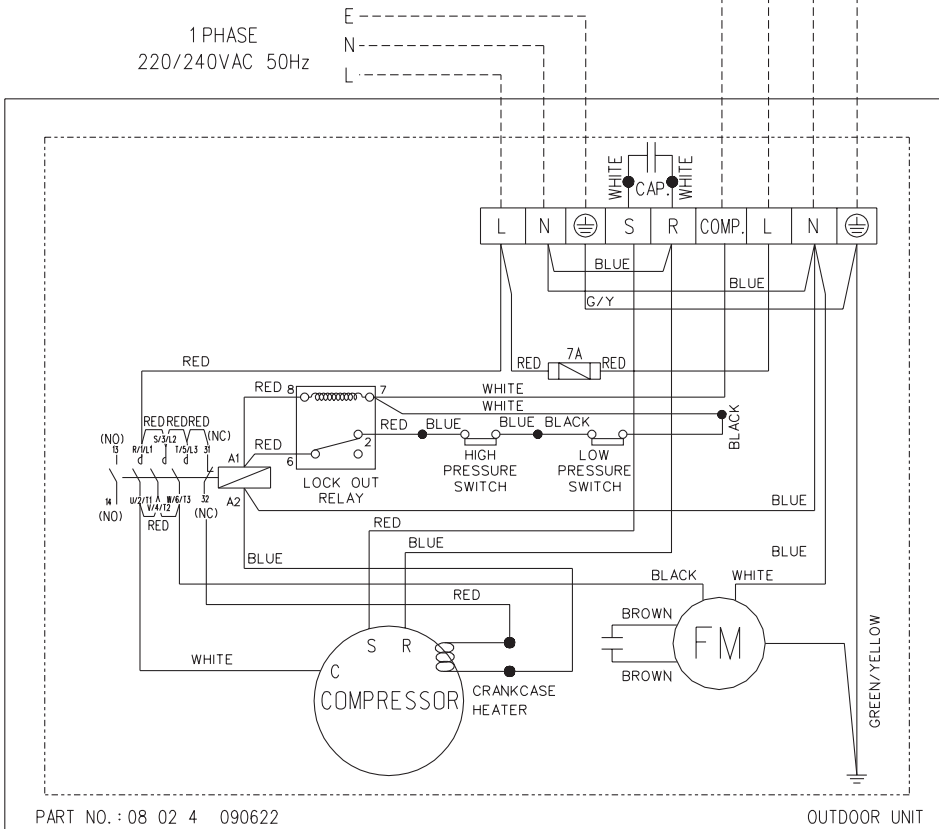


**OUTDOOR UNIT
MODEL : ALC 30C , A5LC 35C (3 PHASE)**

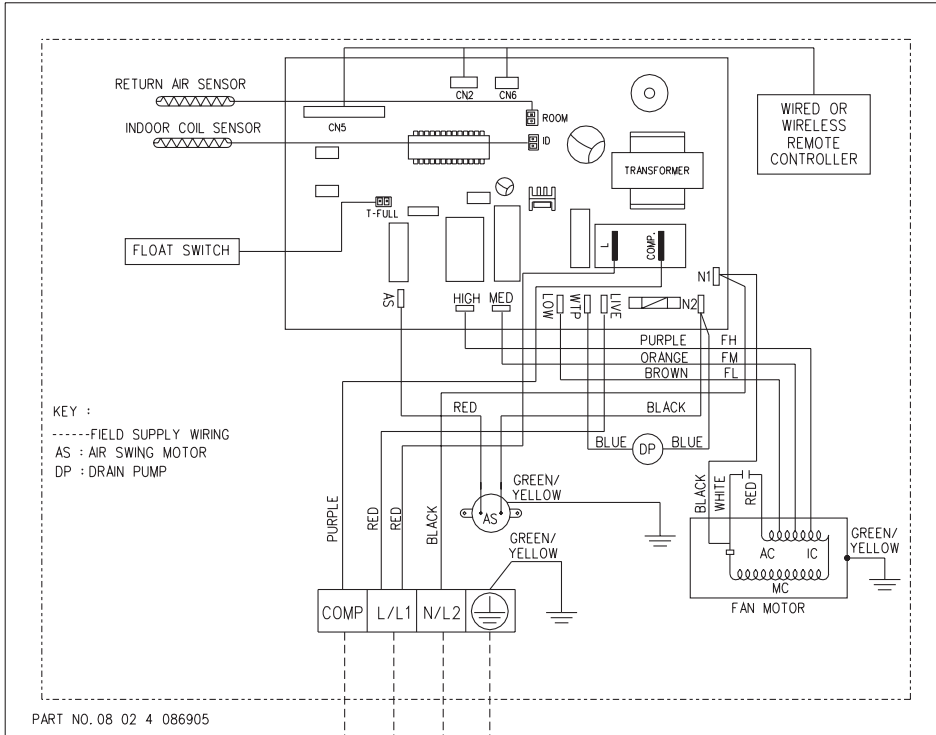
MODEL : A5CK 30A



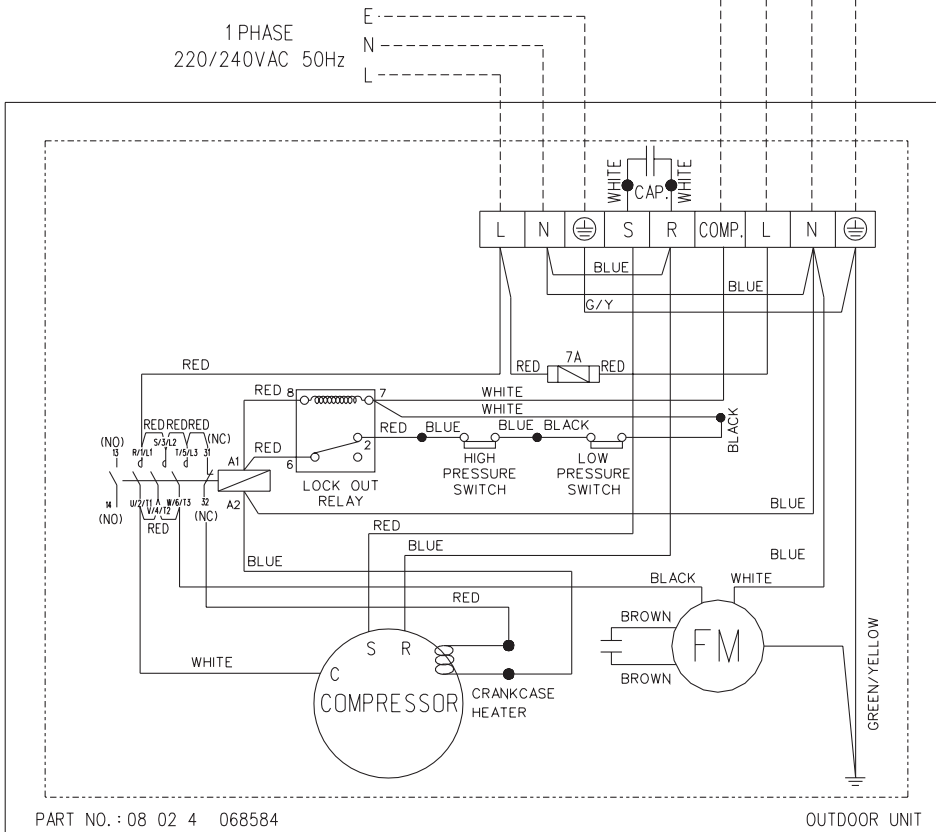
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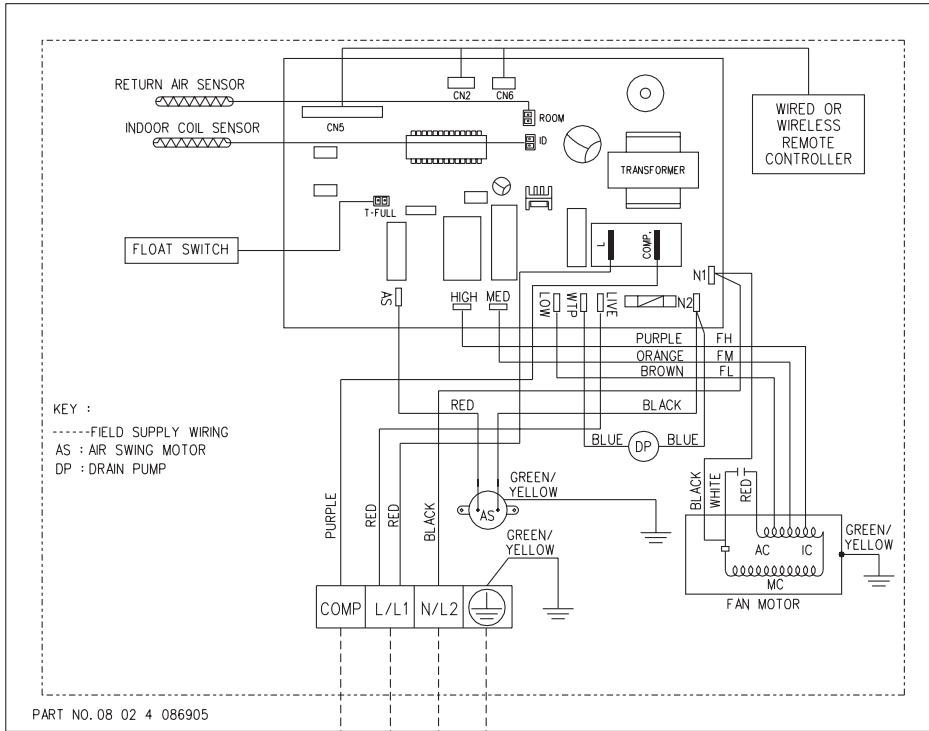
**INDOOR UNIT
MODEL : ACK 40A**



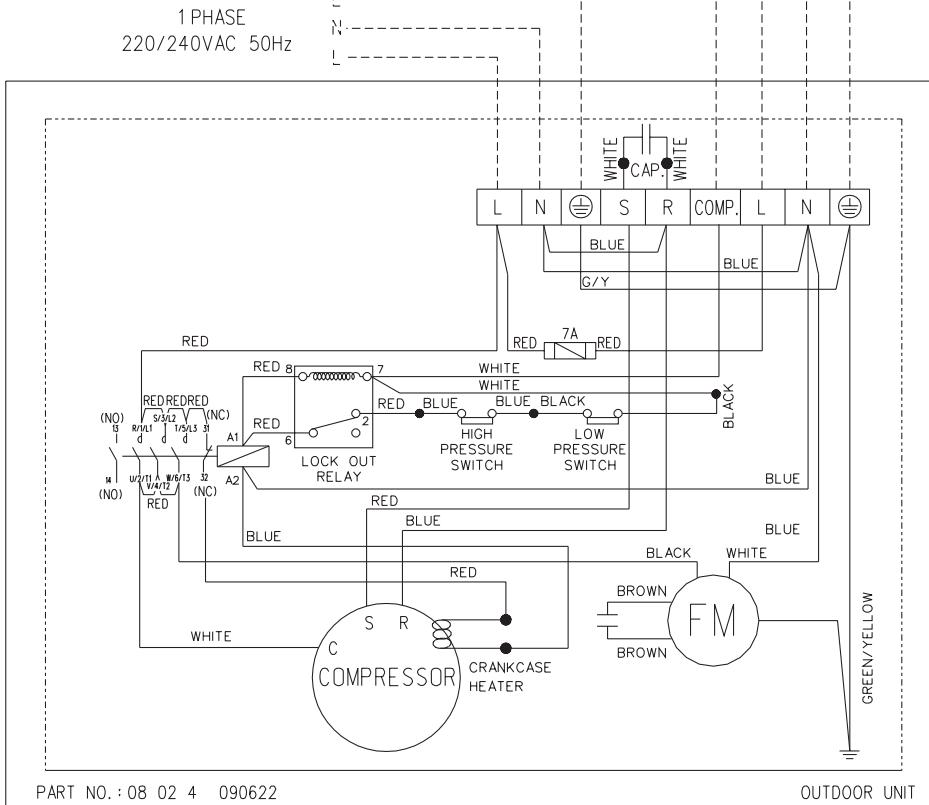
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MODEL : ALC 35/ 40C (1 PHASE)**



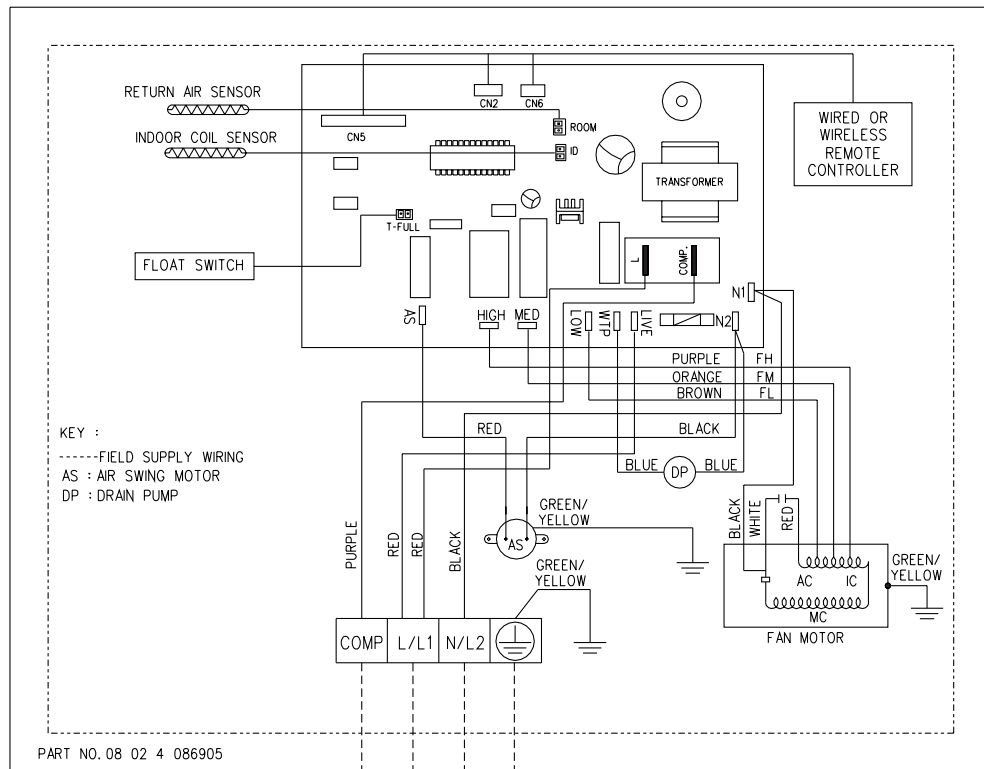
MODEL : A5CK 40A



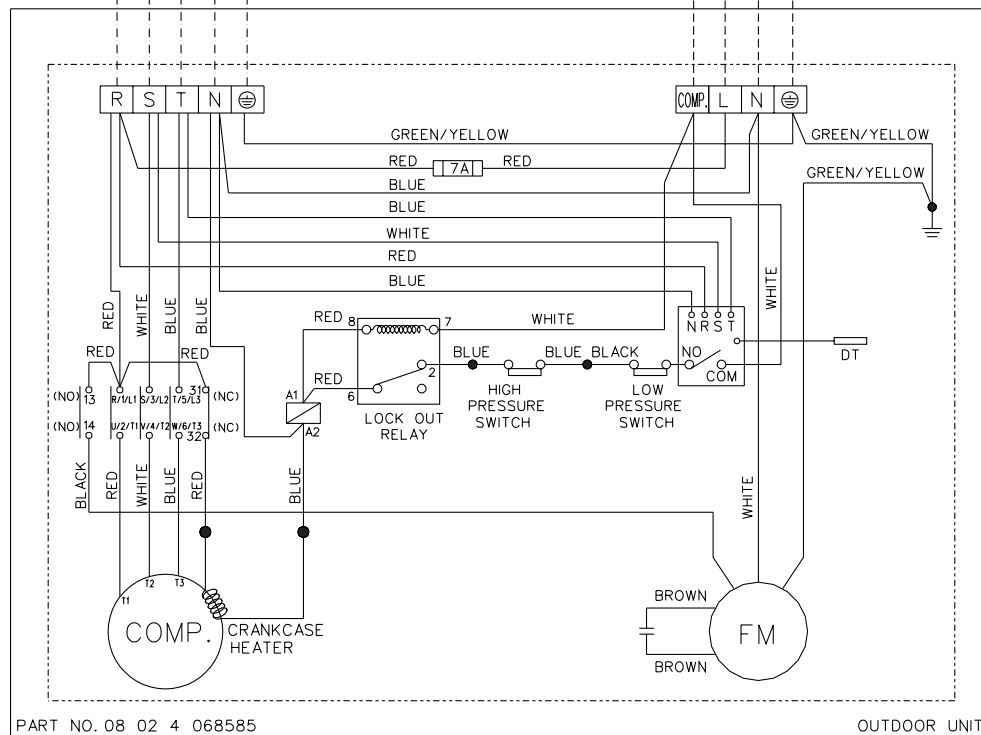
MODEL : A5LC 35C(1 PHASE)



INDOOR UNIT
MODEL: ACK / A5CK 40A, ACK 50A

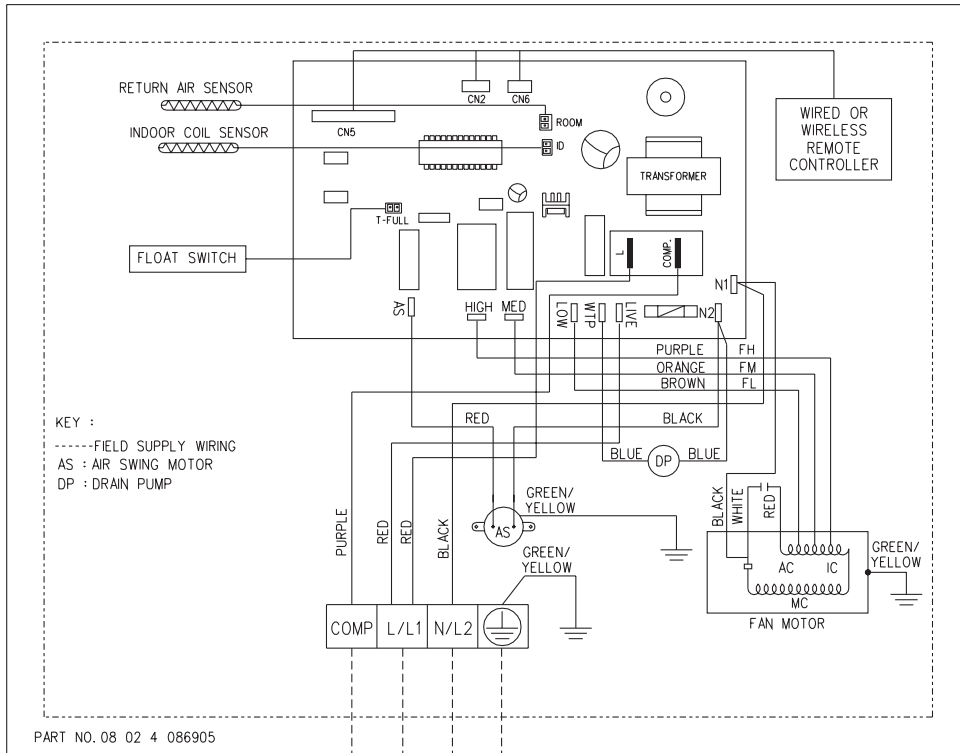


380-415
 3PH 50Hz

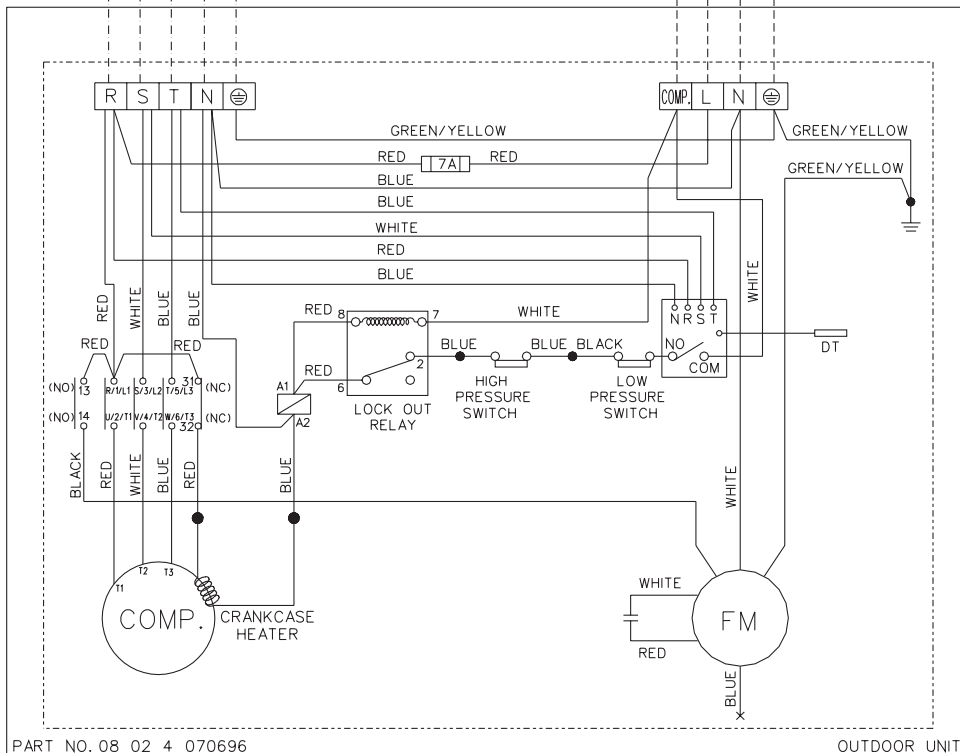


OUTDOOR UNIT
MODEL : A5LC 35 / 40C , ALC 40/ 50C (3 PHASE)

MODEL : A5CK 50A

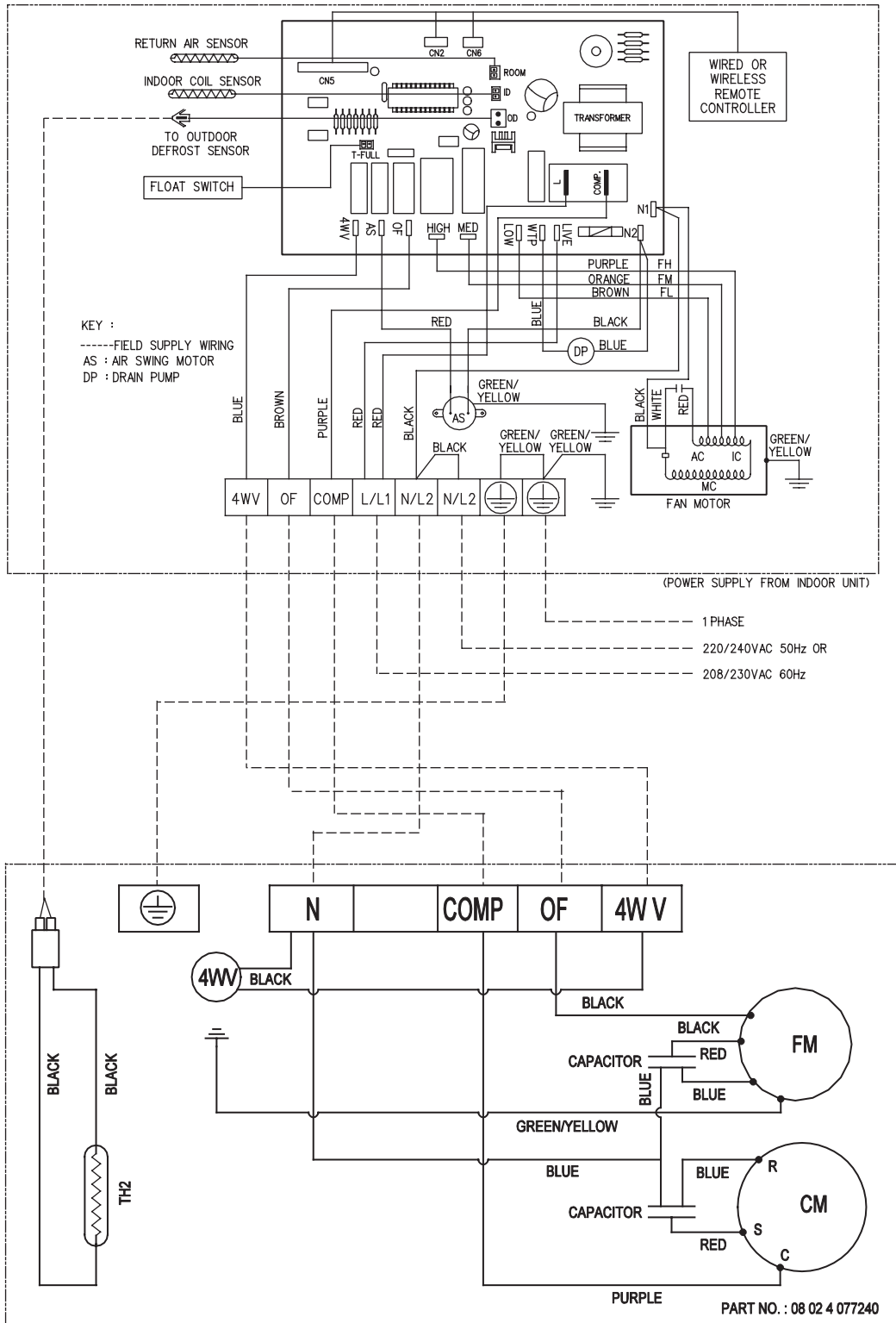


380-415V
3PH 50Hz
R
S
T
N
E



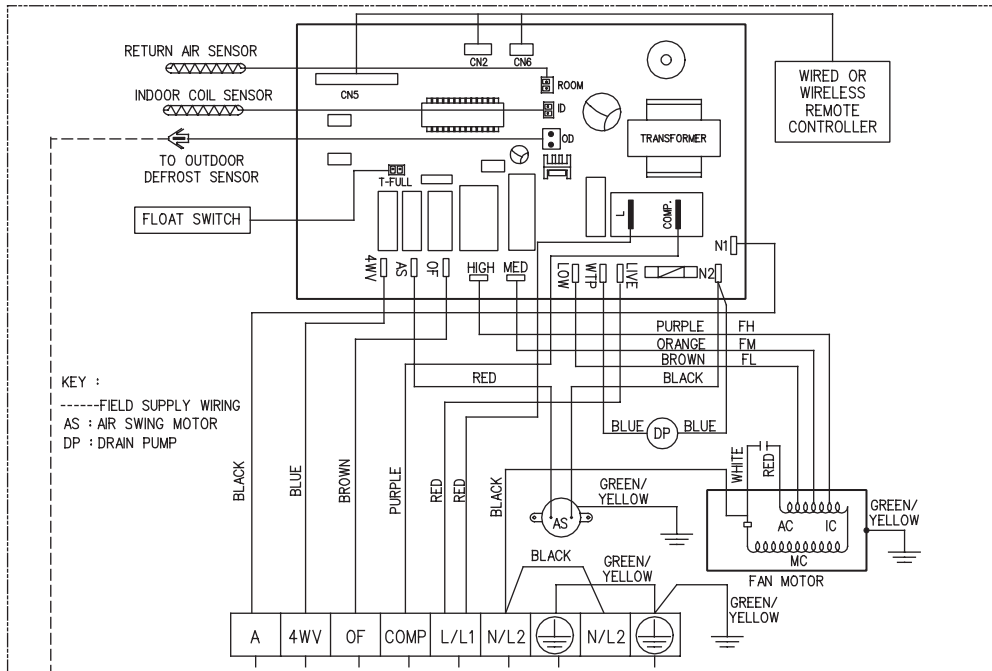
MODEL : A5LC 50C

INDOOR UNIT
MODEL : ACK / A5CK 20/ 25AR

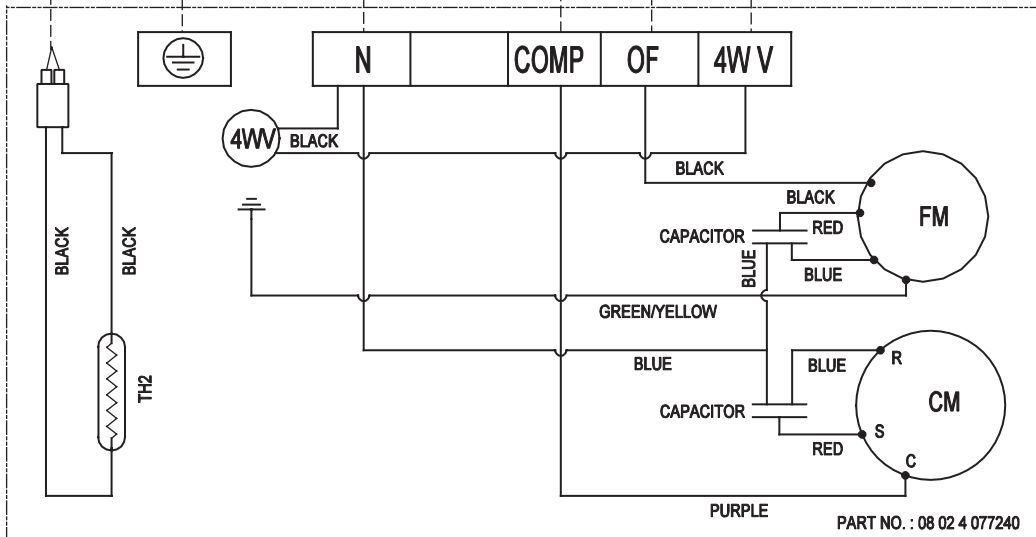


OUTDOOR UNIT
MODEL : ALC / A5LC 20/ 25CR, ALC 18CR

INDOOR UNIT
MODEL : ACK / A5CK 30AR

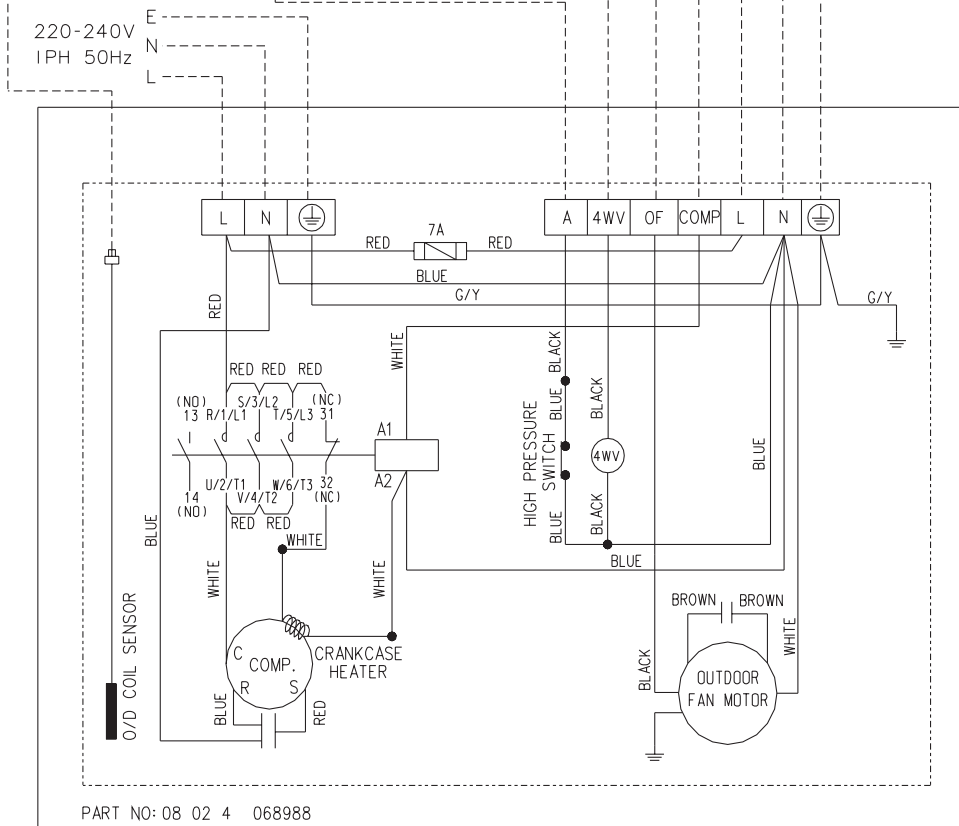
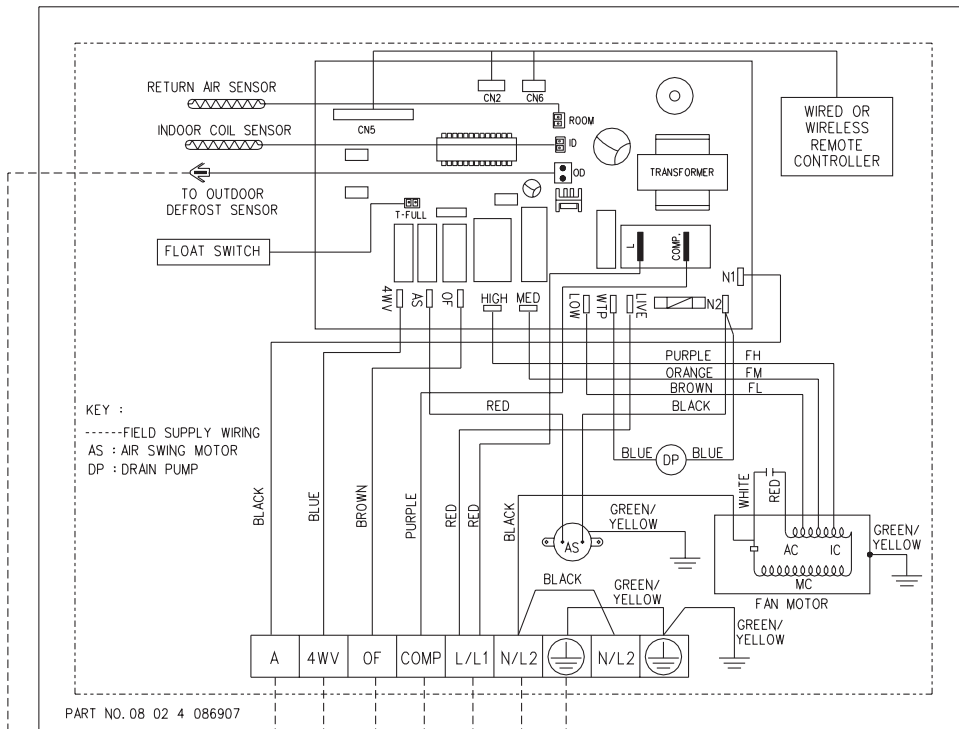


1 PHASE
 220/240VAC 50Hz OR
 208/230VAC 60Hz



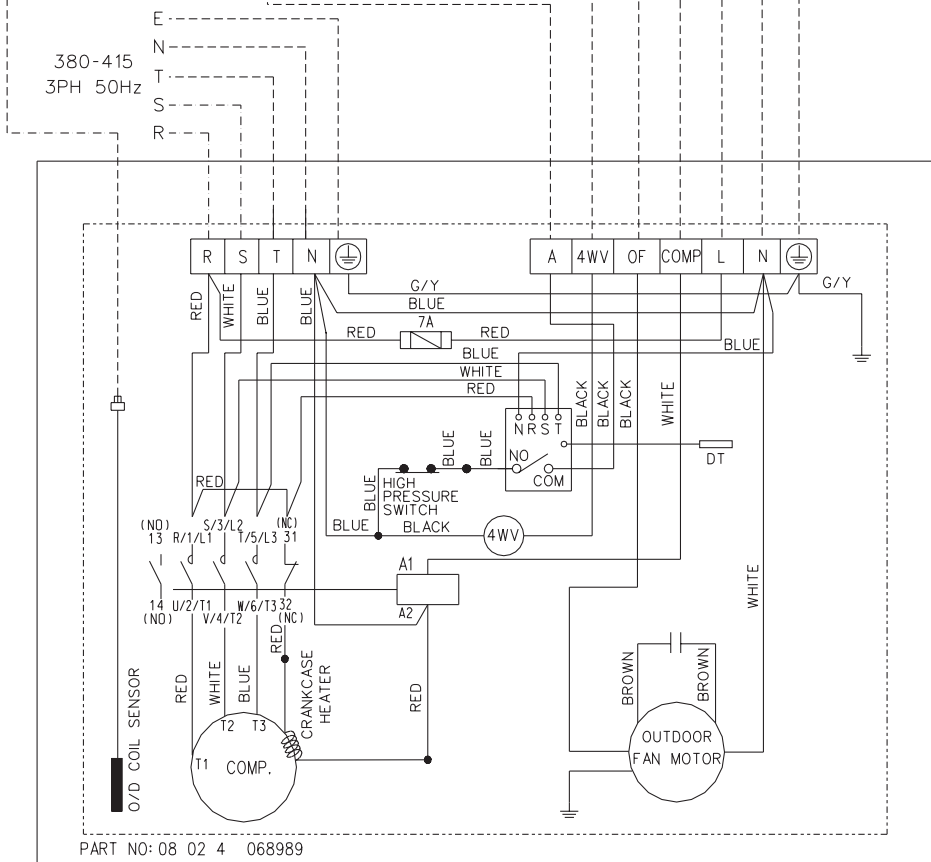
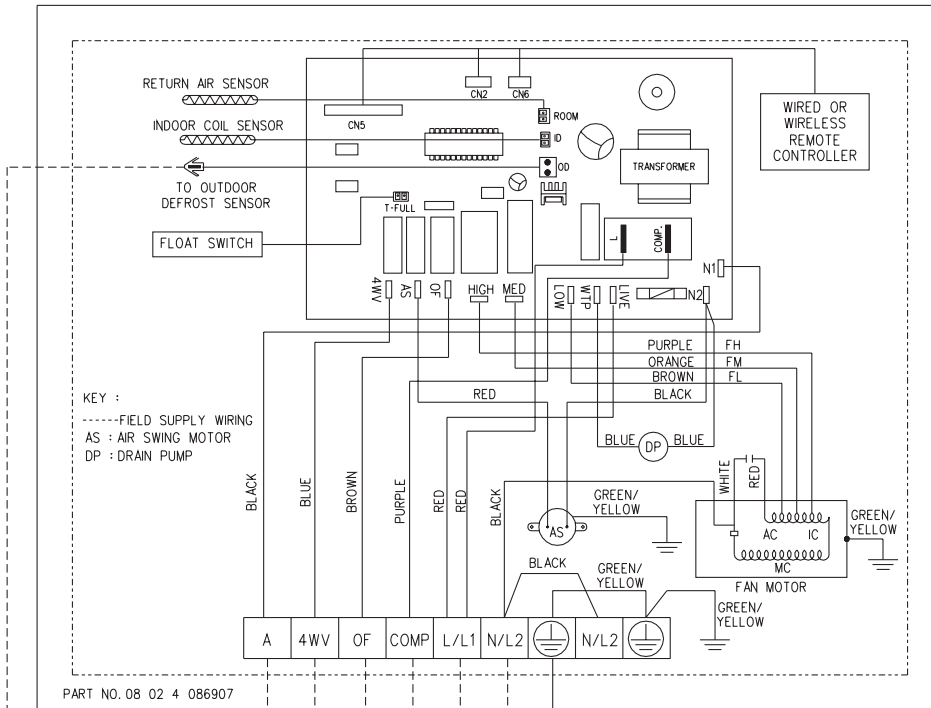
OUTDOOR UNIT
MODEL : ALC / A5LC 28CR

**INDOOR UNIT
MODEL : ACK 30AR**



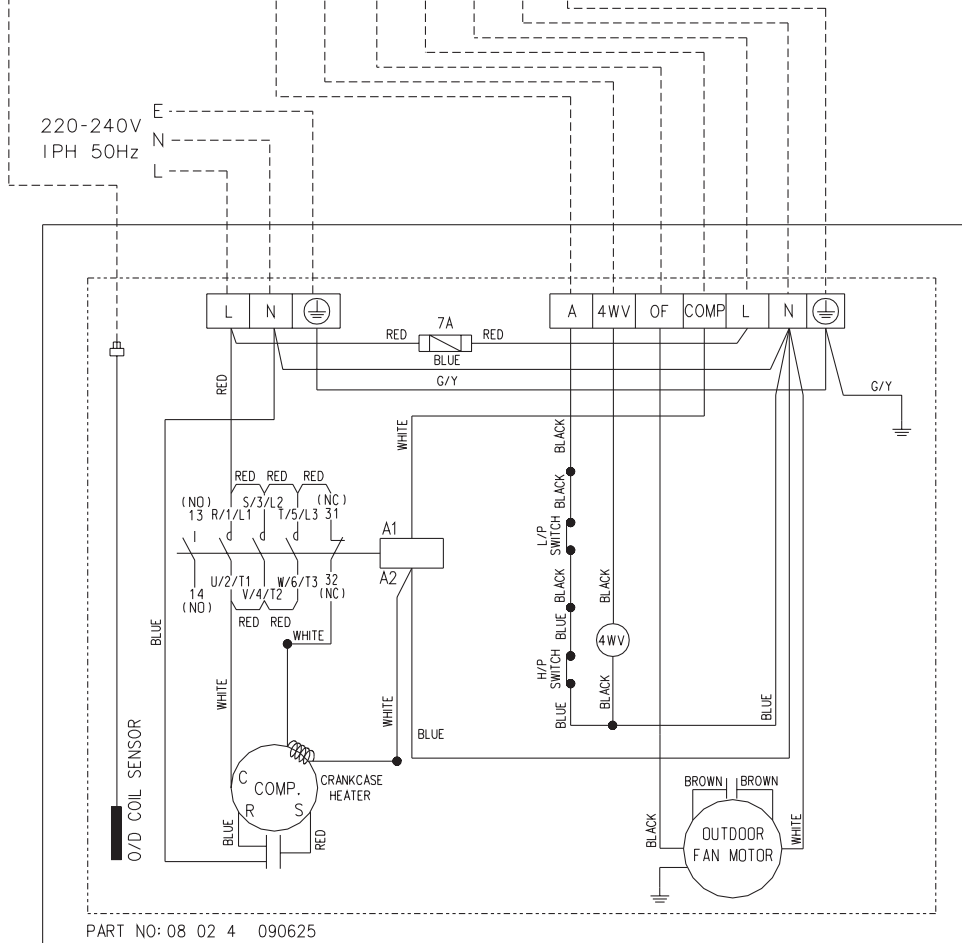
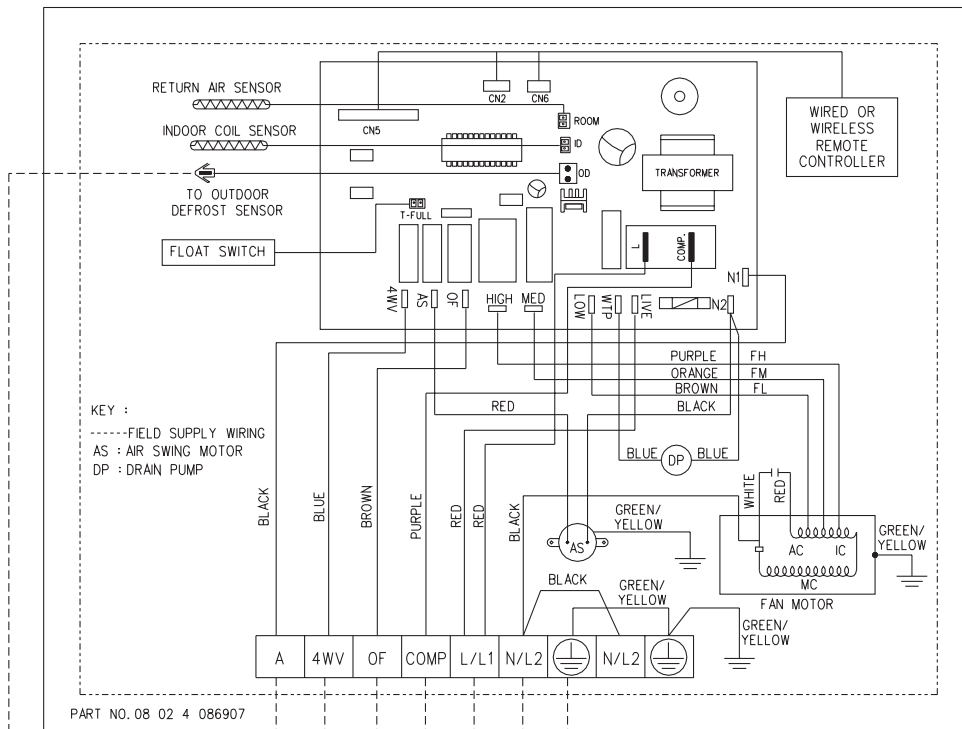
**OUTDOOR UNIT
MODEL : ALC 30CR (1 PHASE)**

**INDOOR UNIT
MODEL : ACK 30AR**



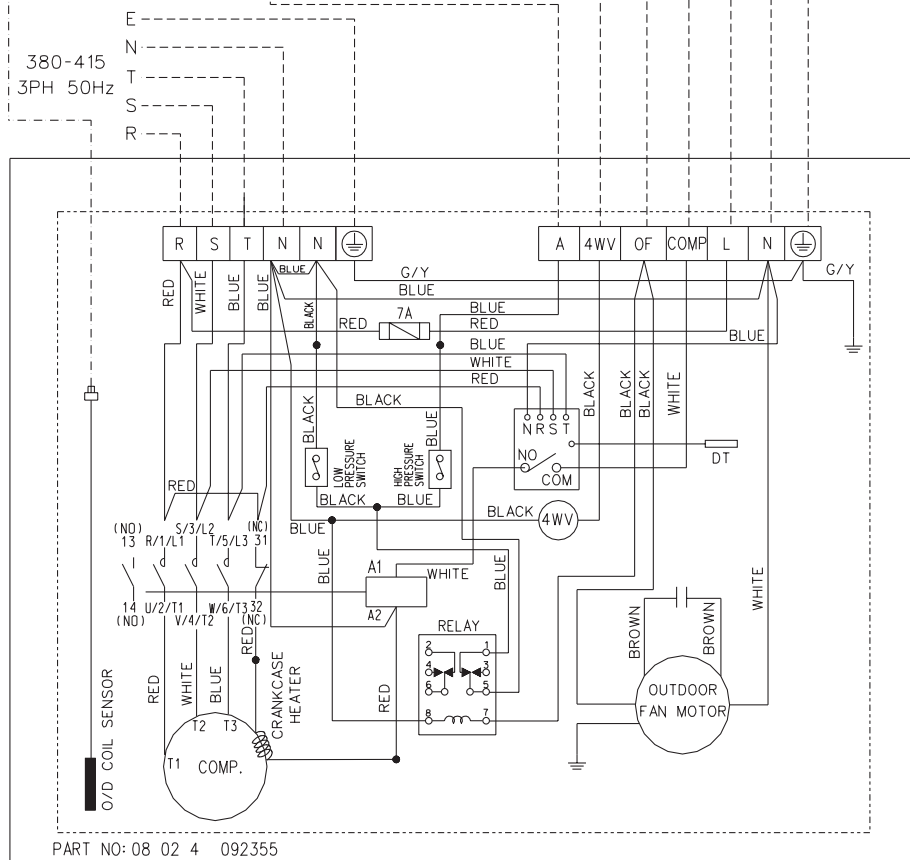
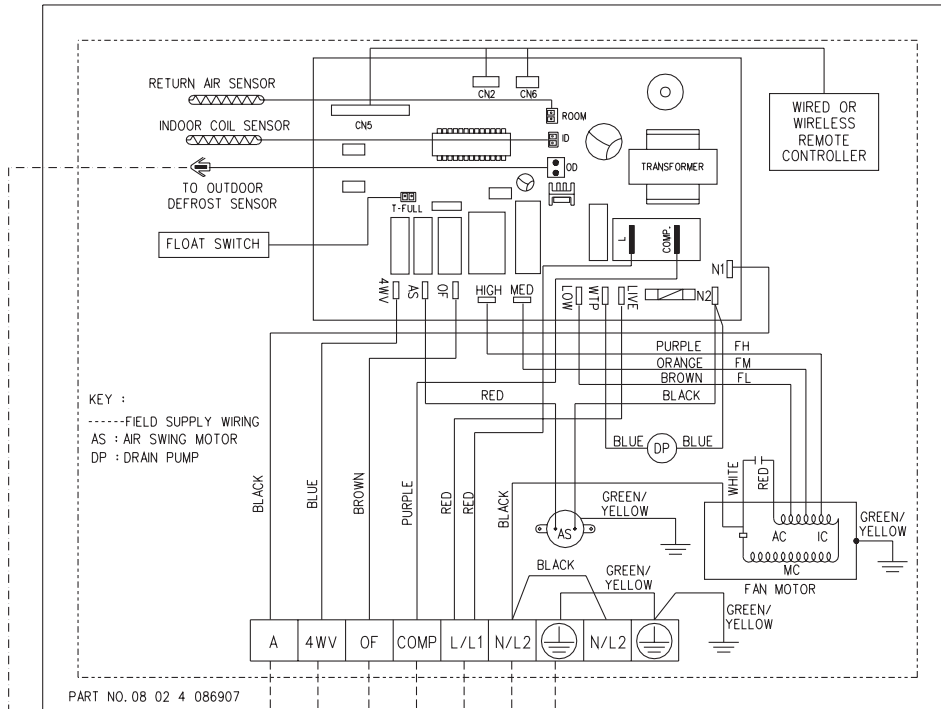
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MODEL : ALC 30CR (3 PHASE)**

MODEL : A5CK 30AR



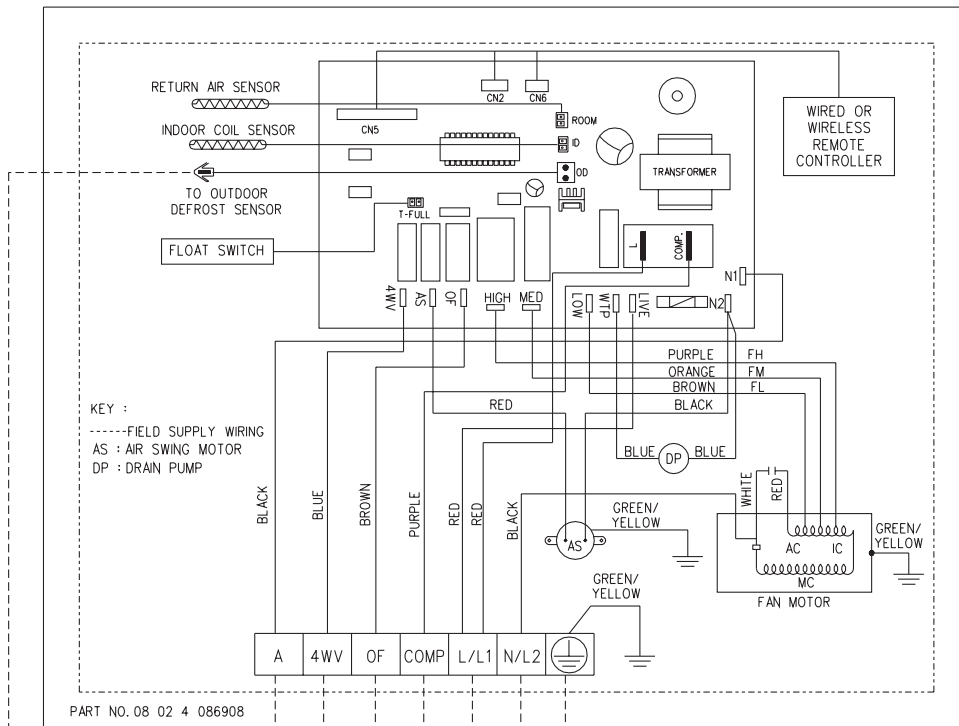
MODEL : A5LC 35CR (1 PHASE)

INDOOR UNIT
MODEL : A5CK 30AR

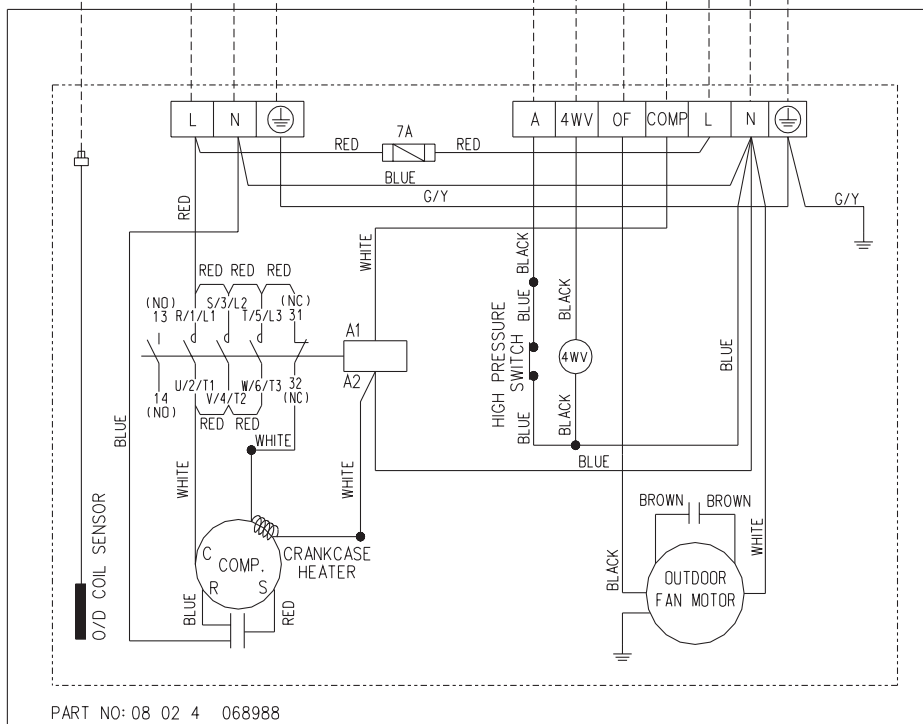


OUTDOOR UNIT
MODEL : A5LC 35CR (3 PHASE)

**INDOOR UNIT
MODEL : ACK 40AR**

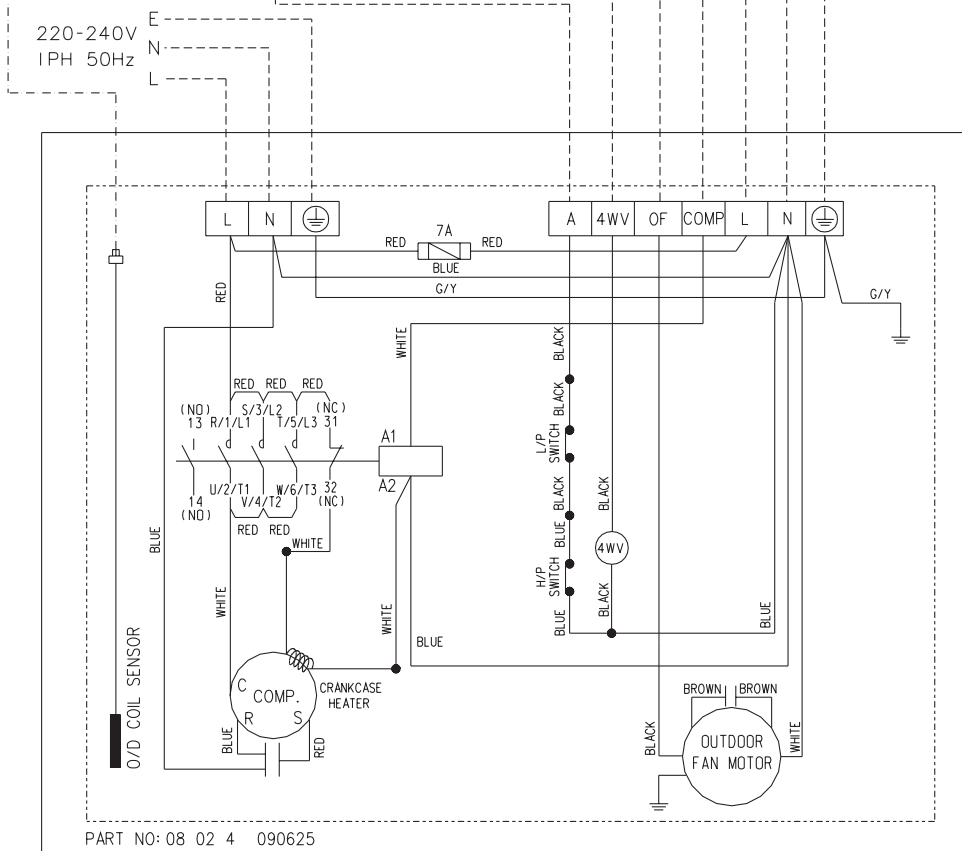
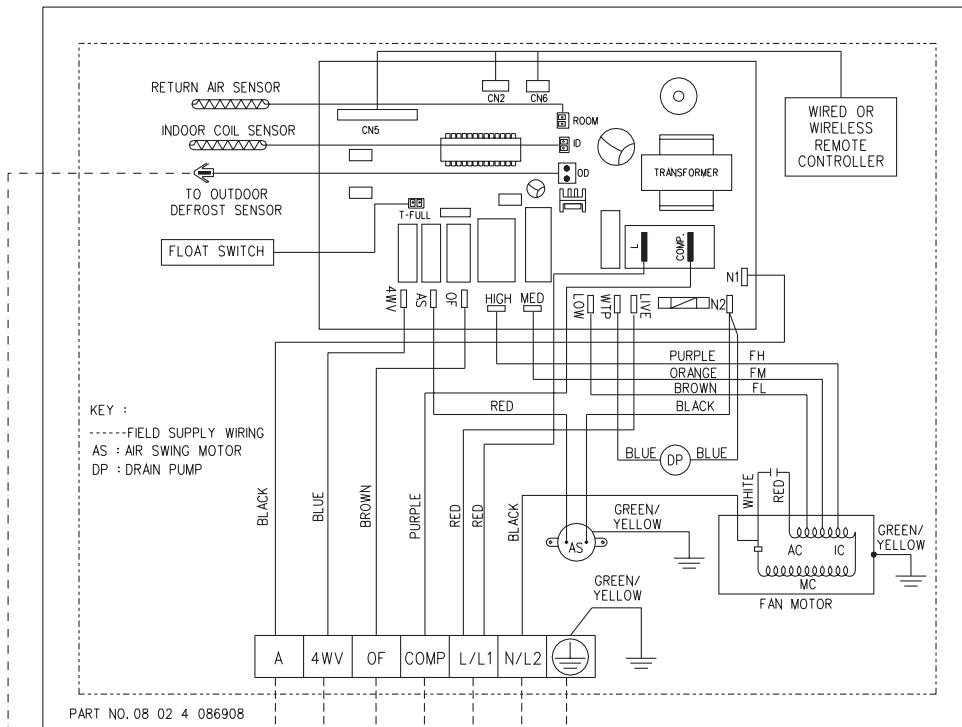


220-240V
1PH 50Hz



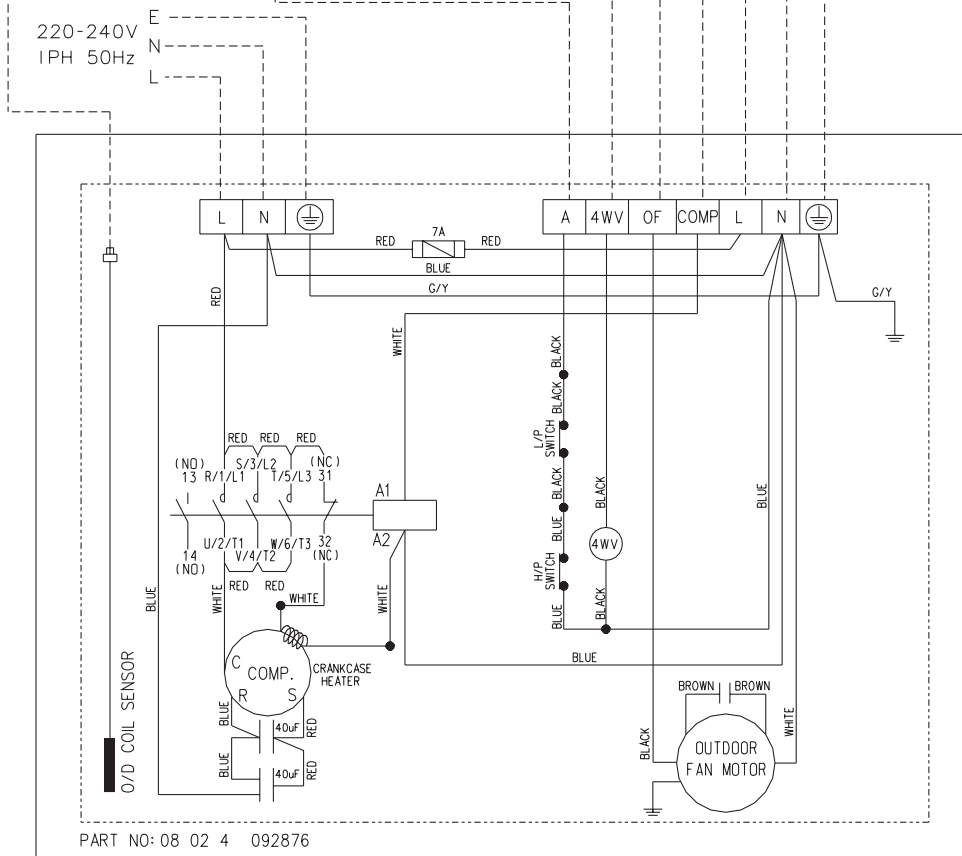
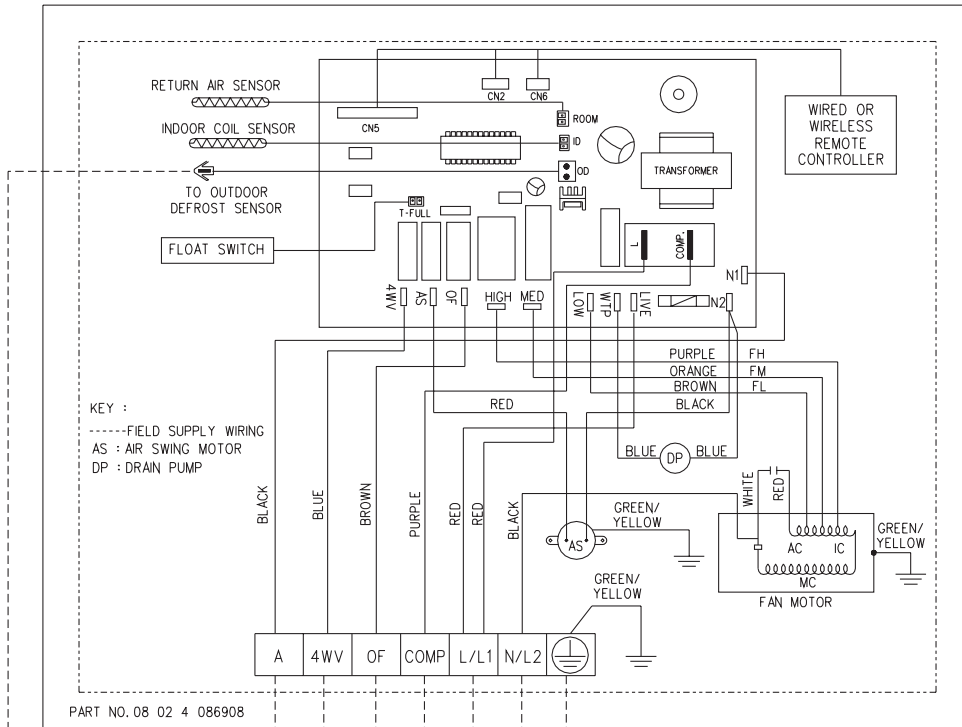
**OUTDOOR UNIT
MODEL : ALC 35/ 40CR (1 PHASE)**

MODEL : A5CK 40AR



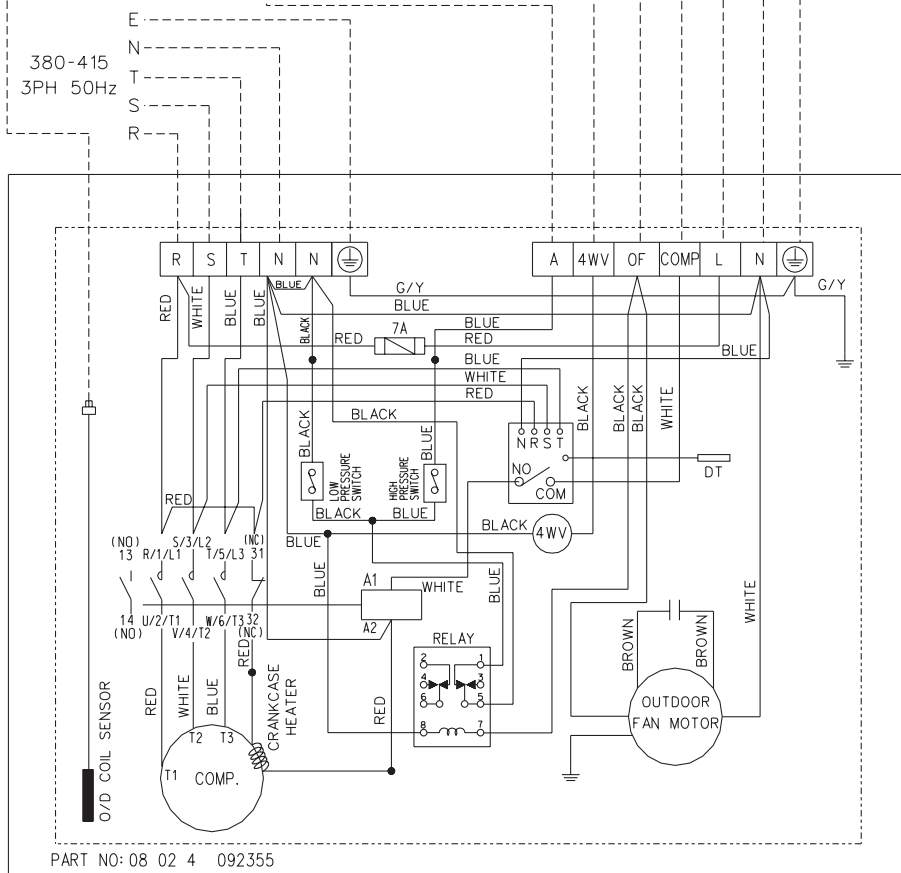
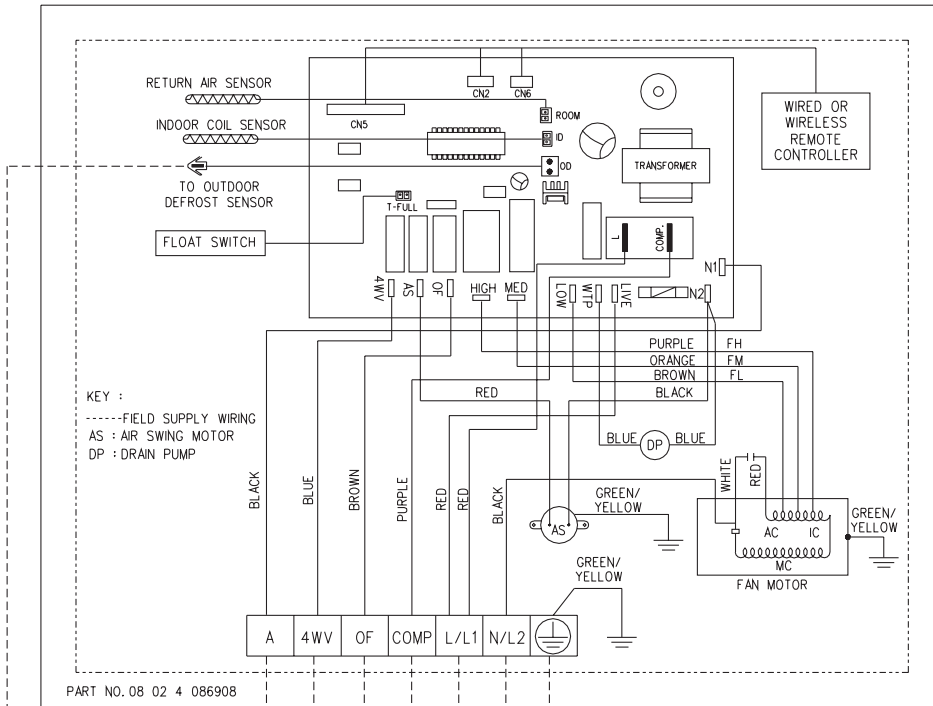
MODEL : A5LC 35CR (1 PHASE)

MODEL : A5CK 40AR



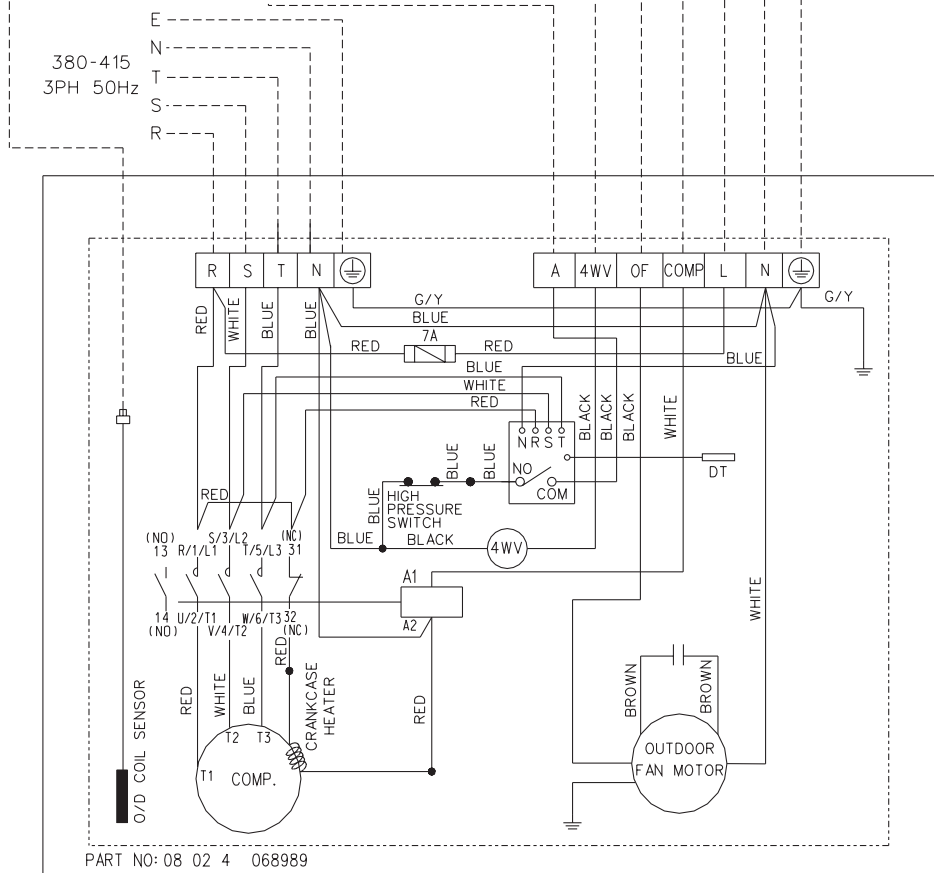
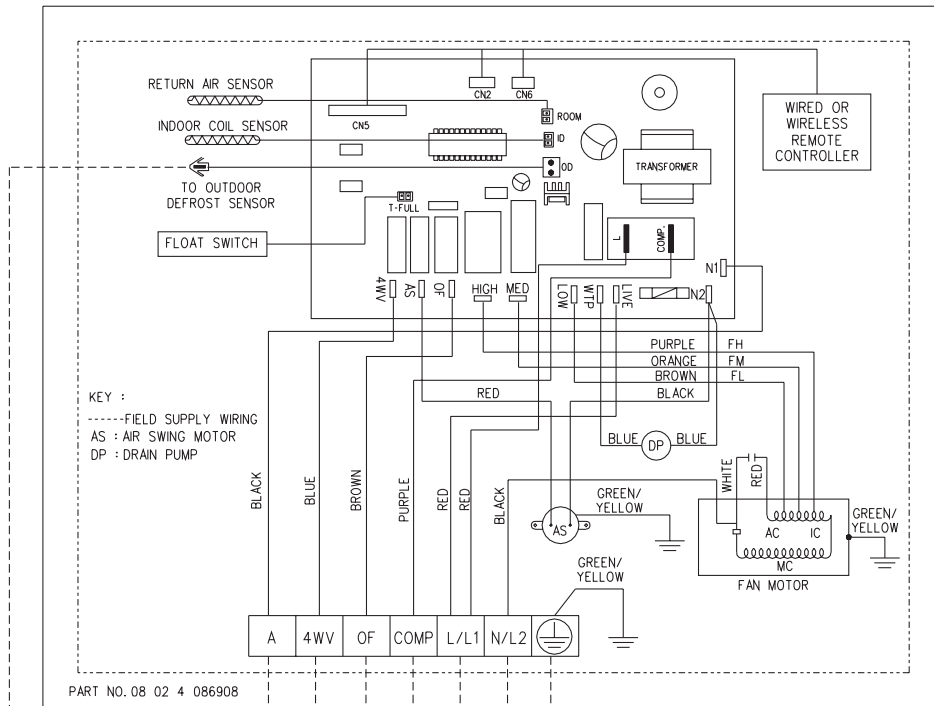
MODEL : A5LC 40CR (1 PHASE)

MODEL : A5CK 40AR



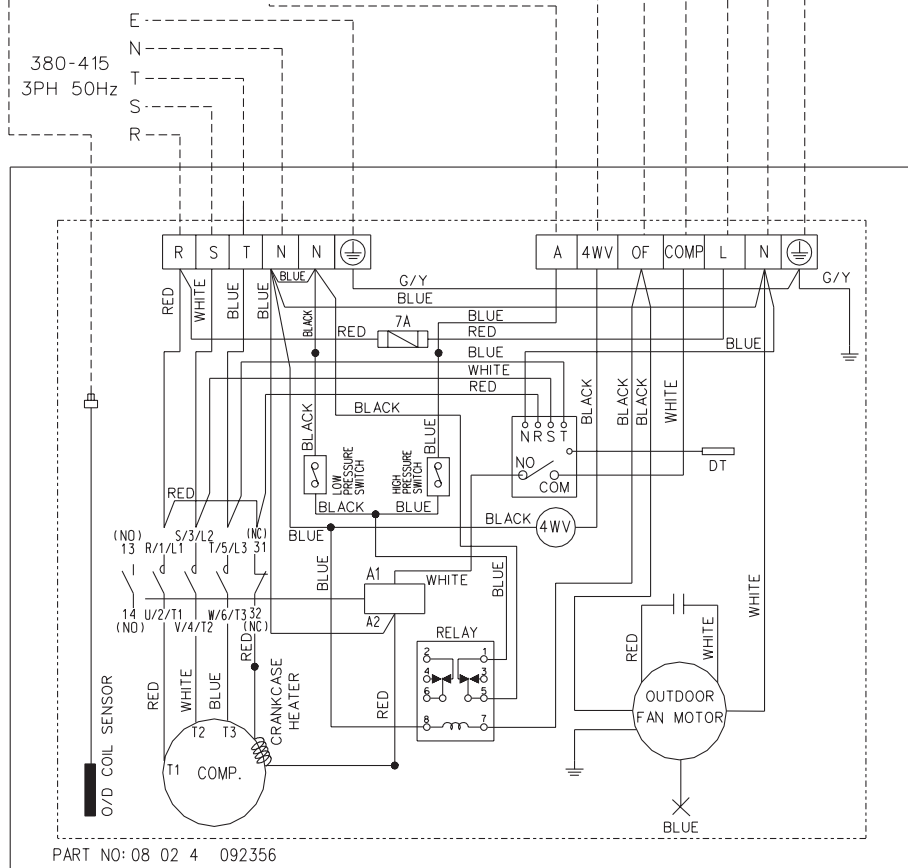
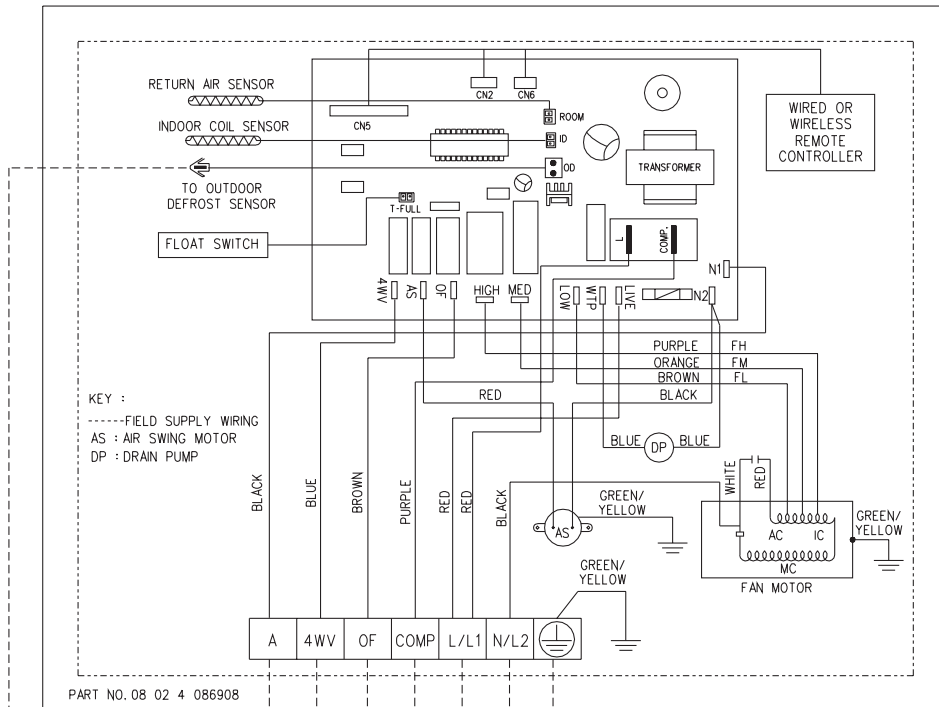
MODEL : A5LC 35 / 40CR (3 PHASE)

**INDOOR UNIT
MODEL : ACK 40/ 50AR**



**OUTDOOR UNIT
MODEL : ALC 40/ 50CR (3 PHASE)**

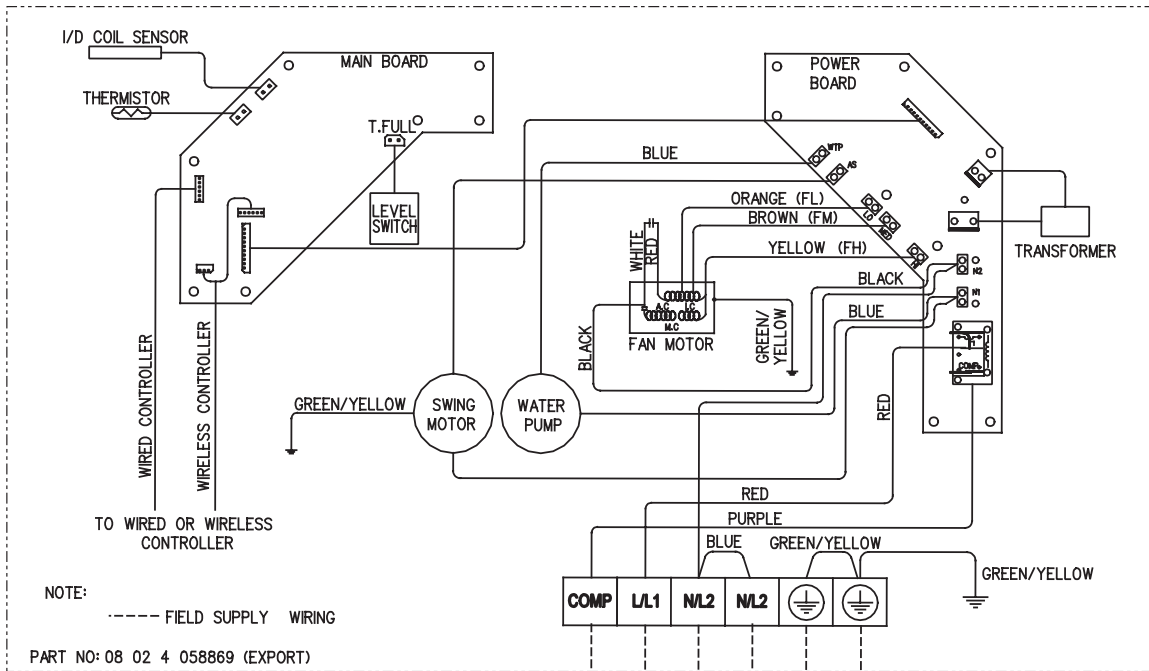
**INDOOR UNIT
MODEL : A5CK 50AR**



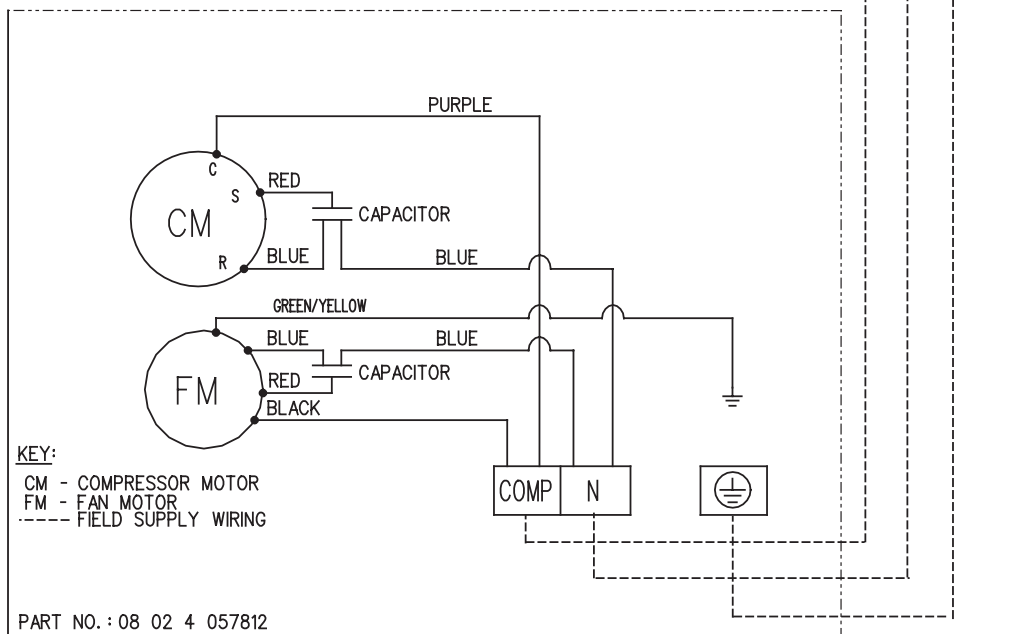
**OUTDOOR UNIT
MODEL : A5LC 50CR**

COOLING ONLY

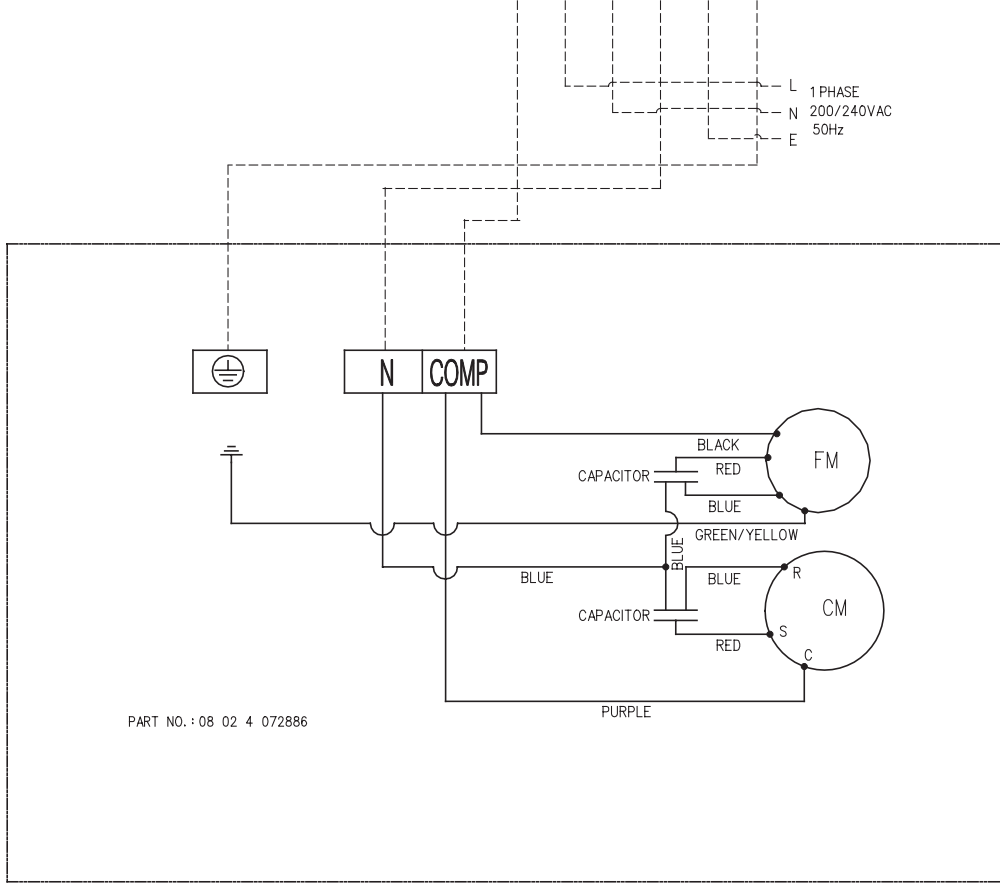
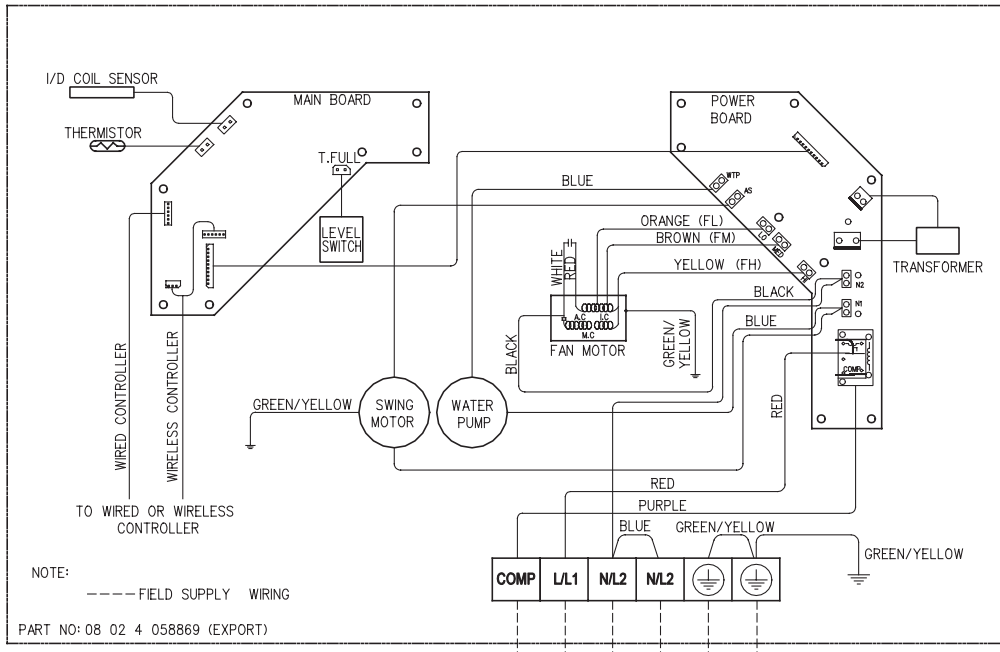
INDOOR UNIT MODEL : ACK 15B



OUTDOOR UNIT MODEL : ALC 15C



INDOOR UNIT
MODEL : ACK 20/ 25B

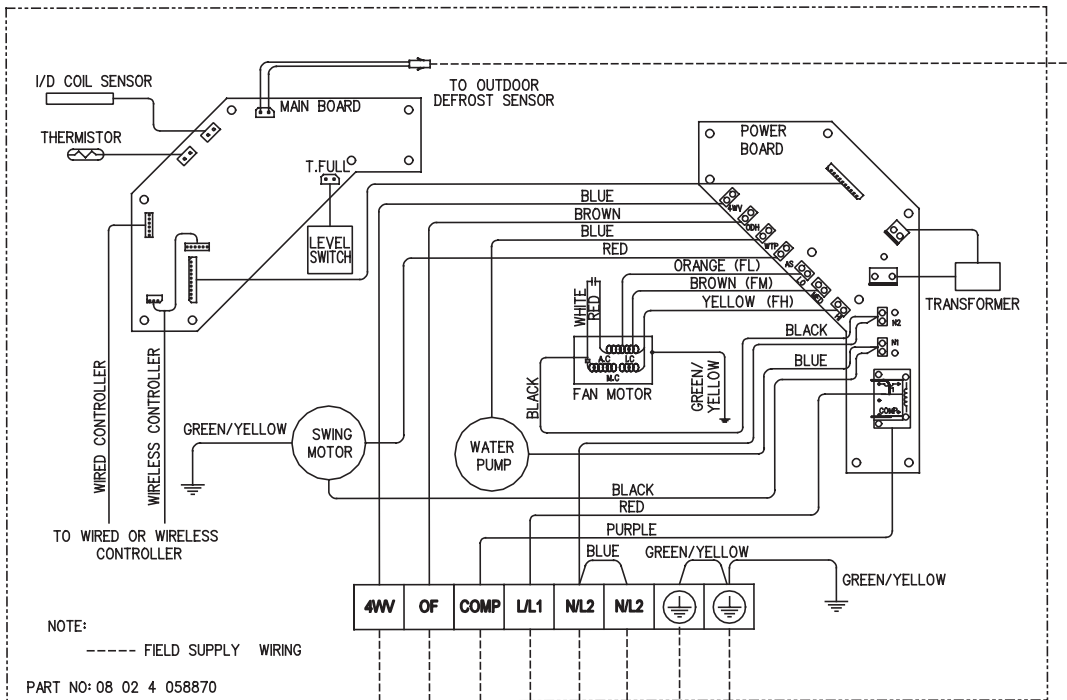


OUTDOOR UNIT
MODEL : ALC 20/ 25C

HEATPUMP

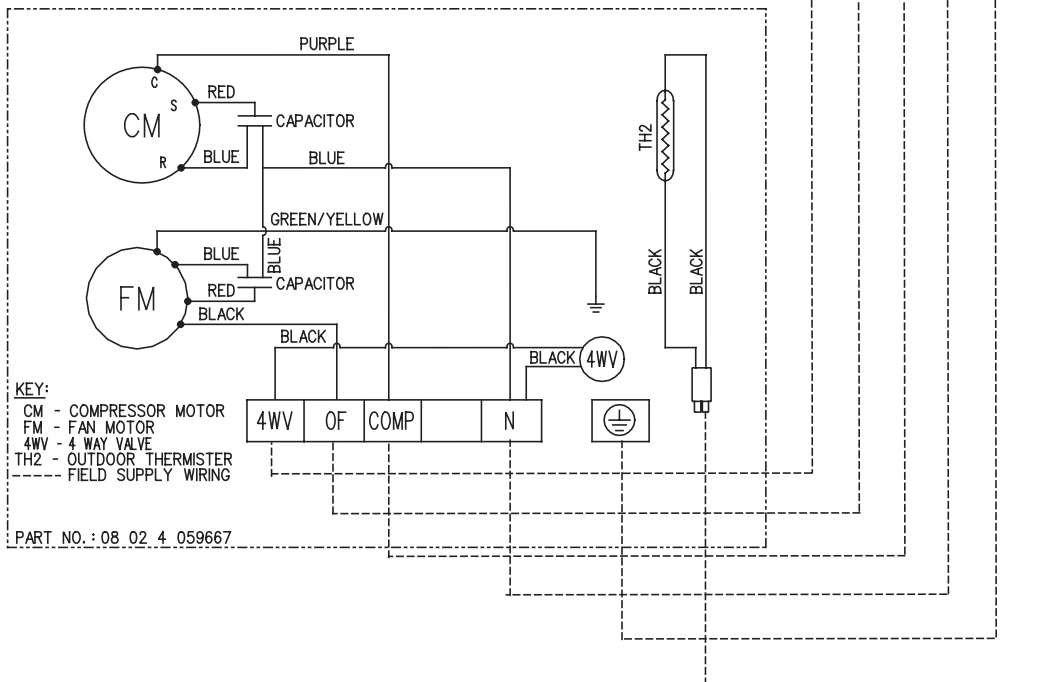
INDOOR UNIT

MODEL : ACK 15BR

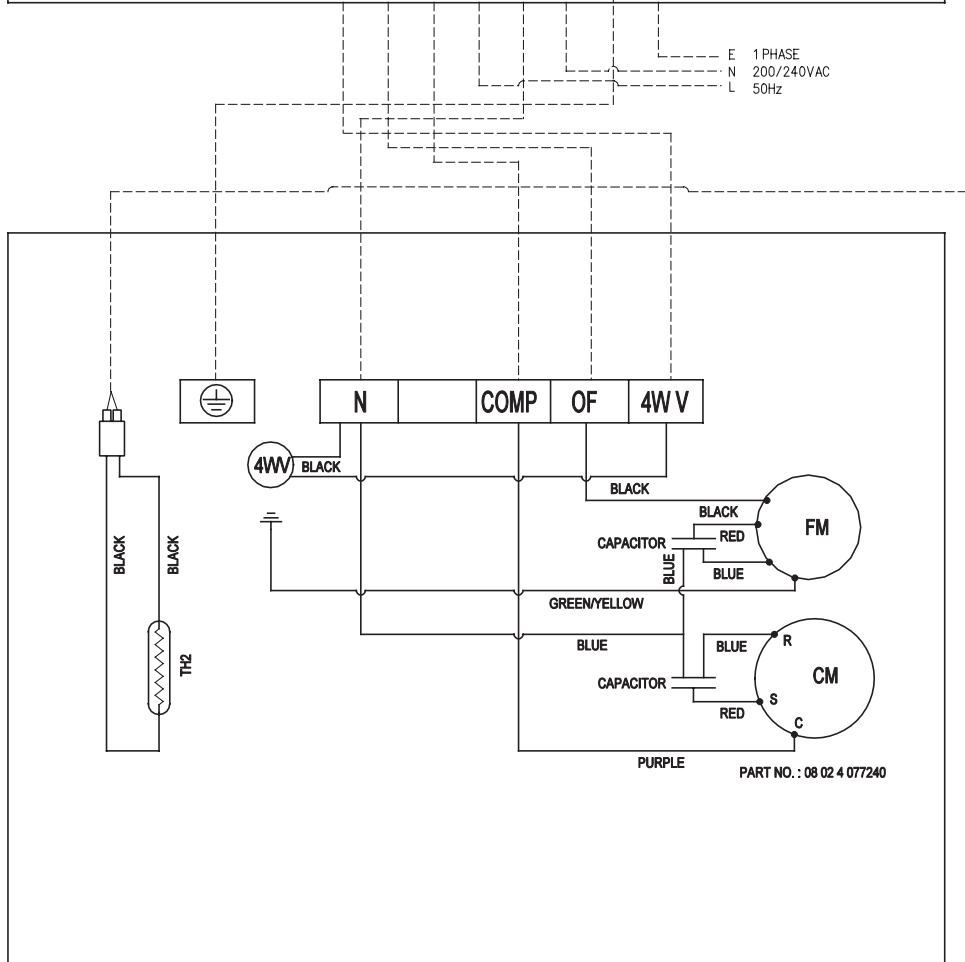
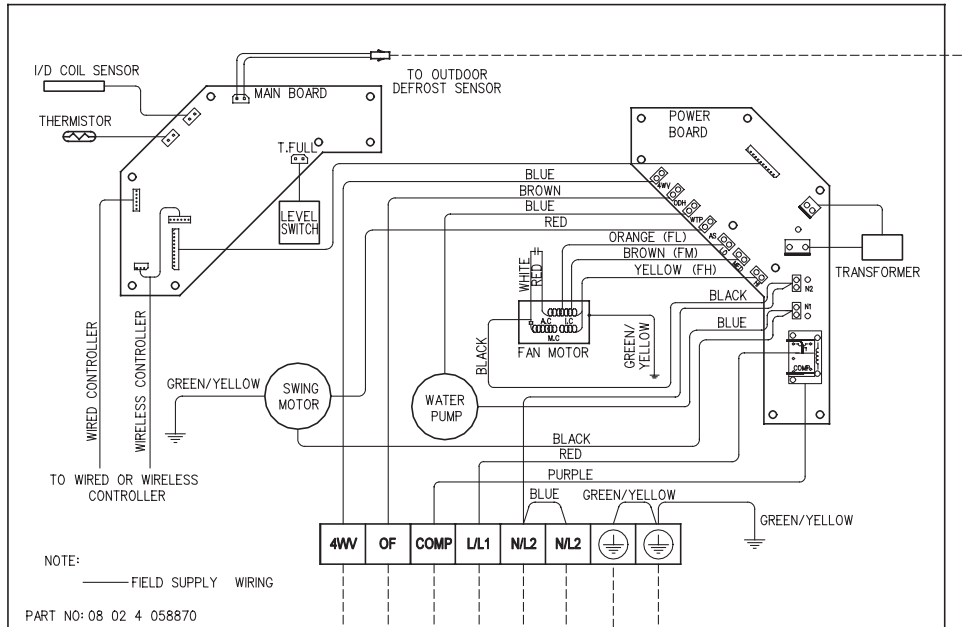


OUTDOOR UNIT

MODEL : ALC 15CR



INDOOR UNIT
MODEL : ACK 20/ 25BR

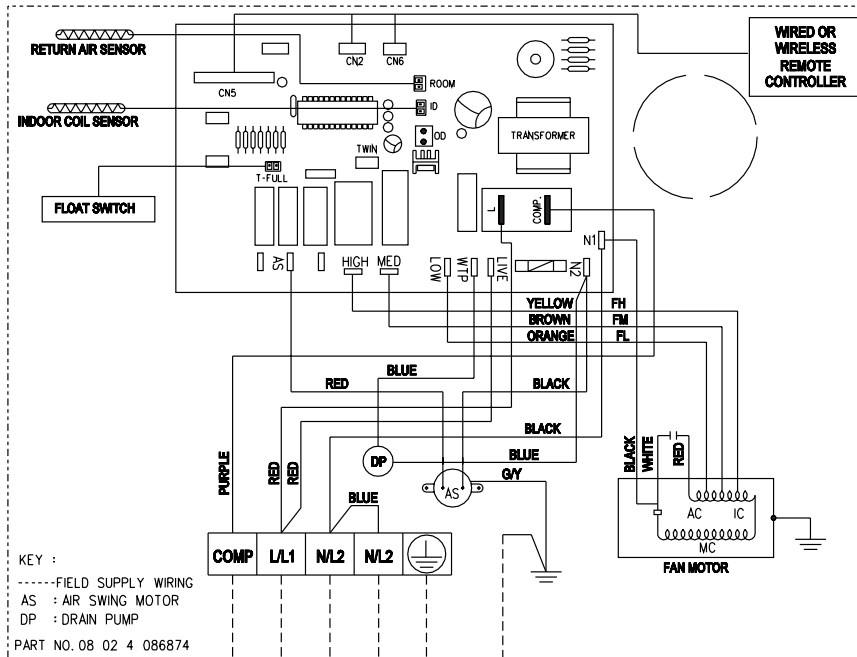


OUTDOOR UNIT
MODEL : ALC 20/ 25CR

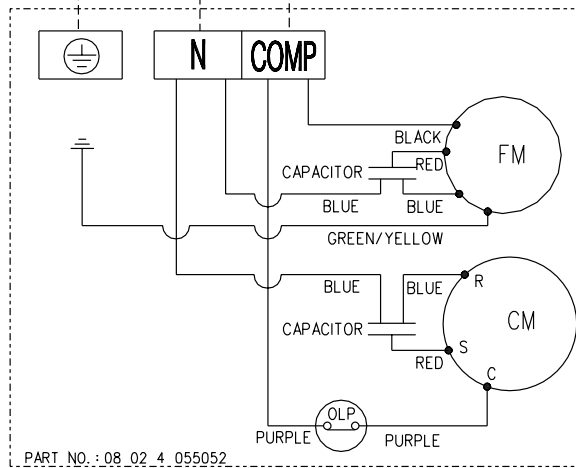
COOLING ONLY

INDOOR UNIT

MODEL : ACK / A5CK 10 / 15C



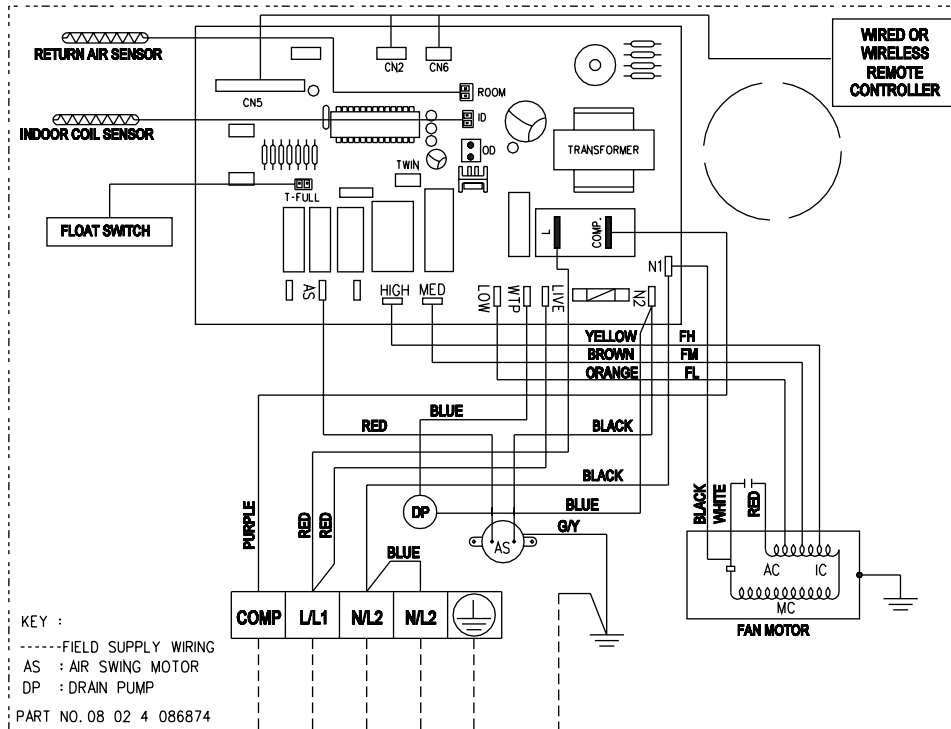
E 1 PHASE
N 220/240VAC 50Hz OR
L 208/230VAC 60Hz



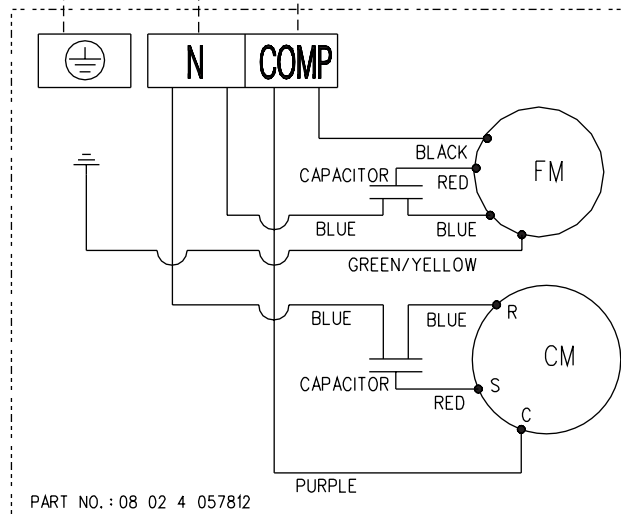
OUTDOOR UNIT

MODEL : ALC / A5LC 10 / 15C

**INDOOR UNIT
MODEL : ACK 15C**

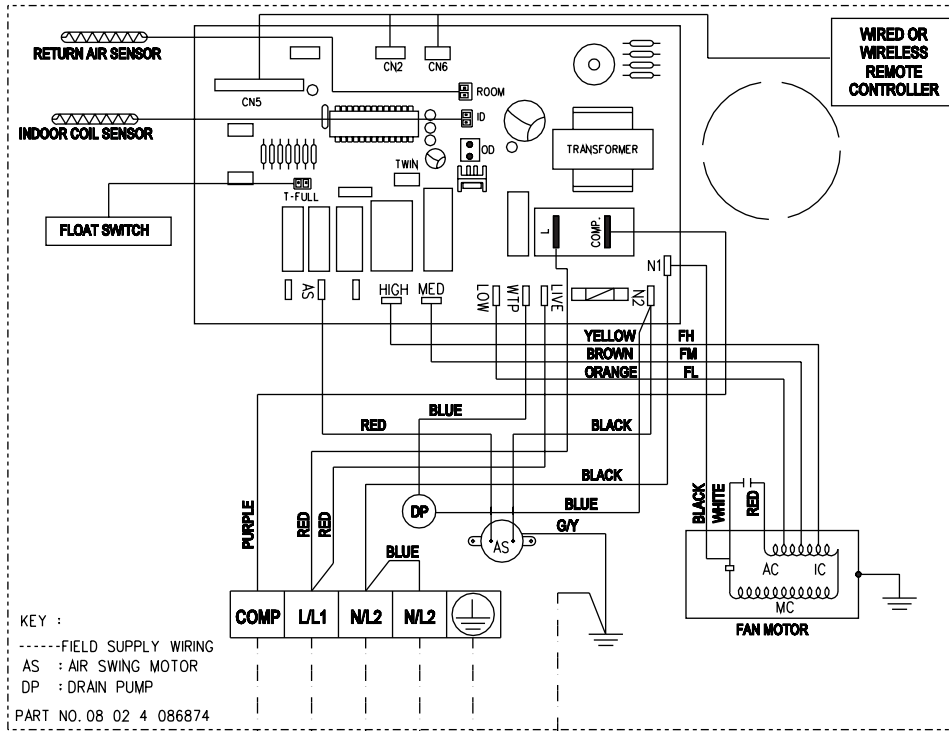


E 1 PHASE
N 220/240VAC 50Hz OR
L 208/230VAC 60Hz

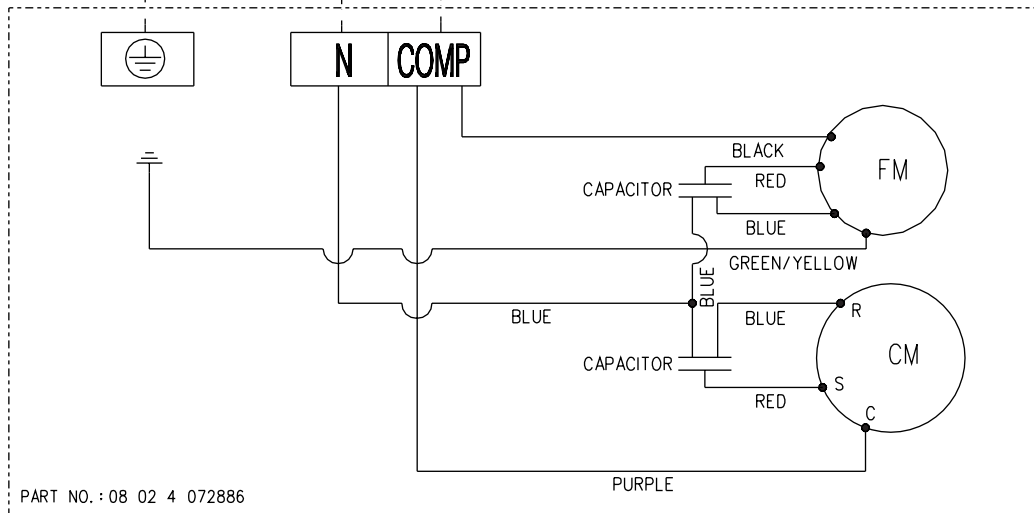


**OUTDOOR UNIT
MODEL : ALC 15C**

INDOOR UNIT
MODEL : ACK / A5CK 20C



E 1 PHASE
 N 220/240VAC 50Hz OR
 L 208/230VAC 60Hz

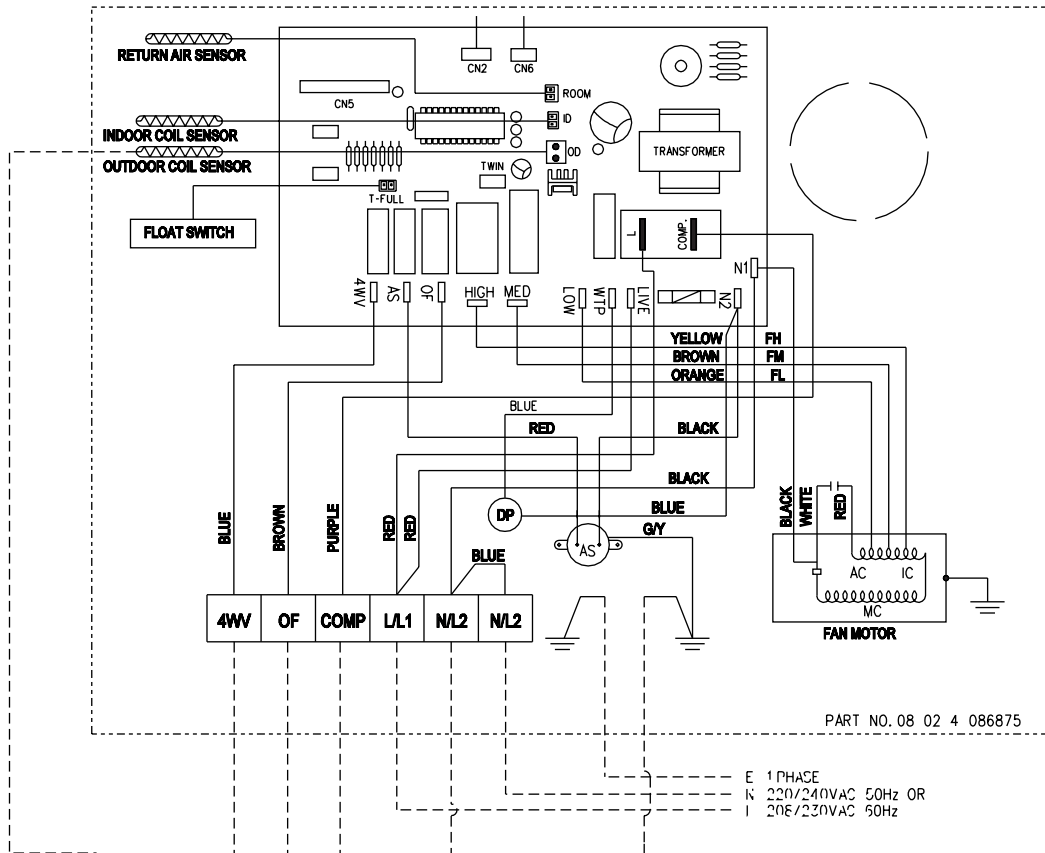


OUTDOOR UNIT
MODEL : ALC / A5LC 20, ALC 18C

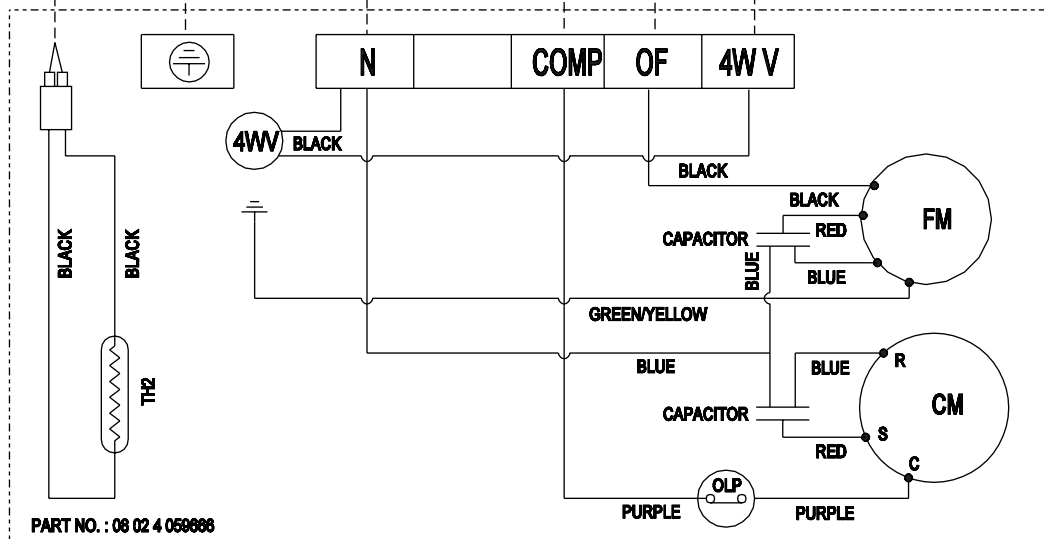
HEATPUMP

INDOOR UNIT

MODEL : ACK / A5CK 10CR, A5CK 15CR



PART NO. 08 02 4 086875

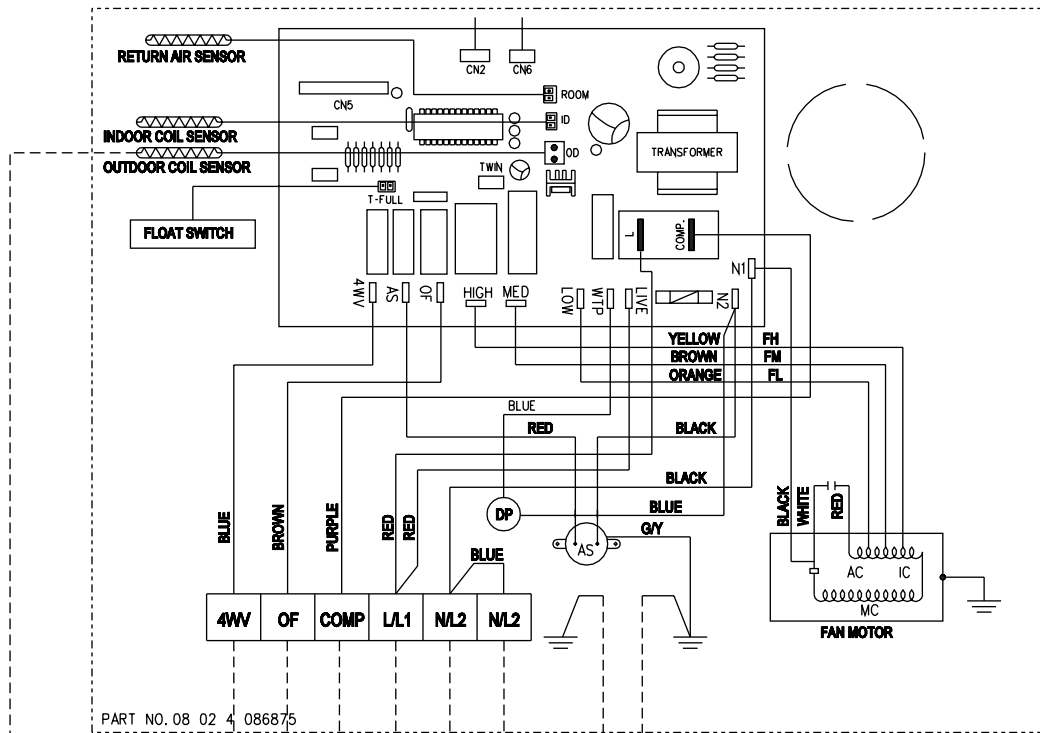


PART NO. : 08 02 4 058886

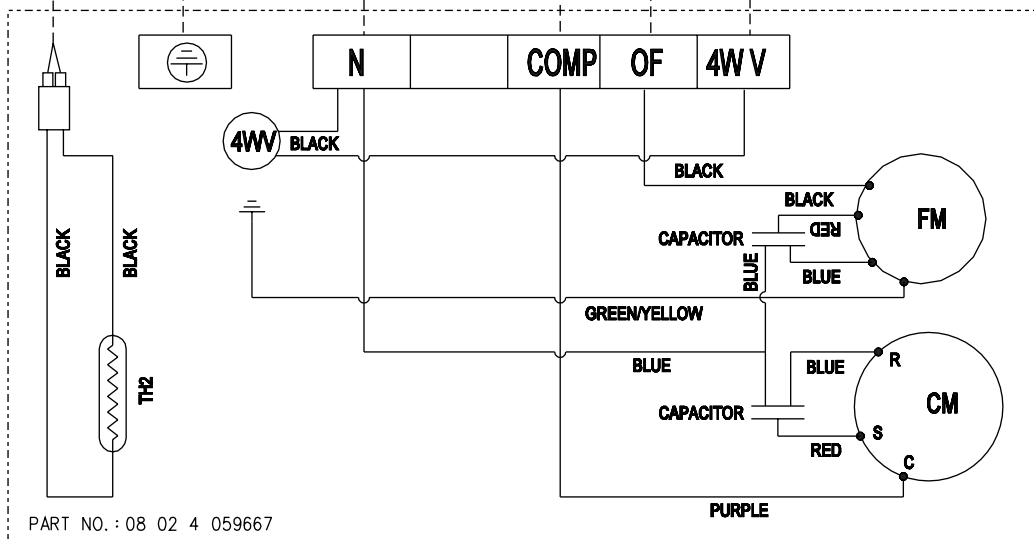
OUTDOOR UNIT

MODEL : ALC / A5LC 10CR, A5LC 15CR

**INDOOR UNIT
MODEL : ACK 15CR**

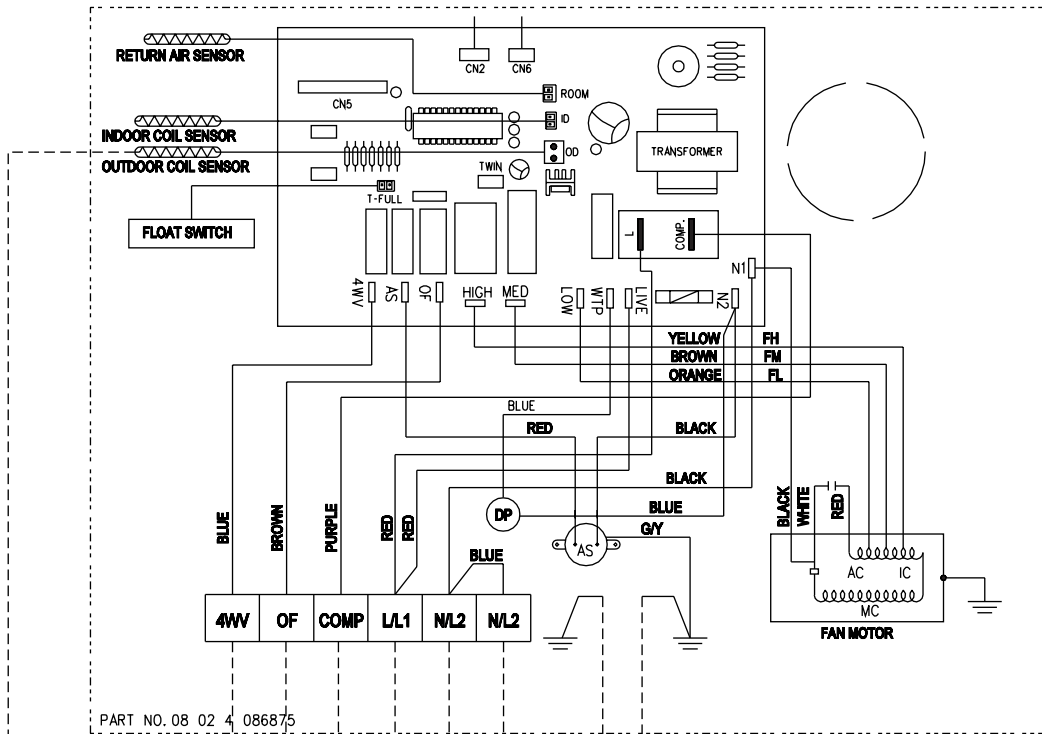


E 1 PHASE
N 220/240VAC 50Hz OR
I 208/230VAC 60Hz

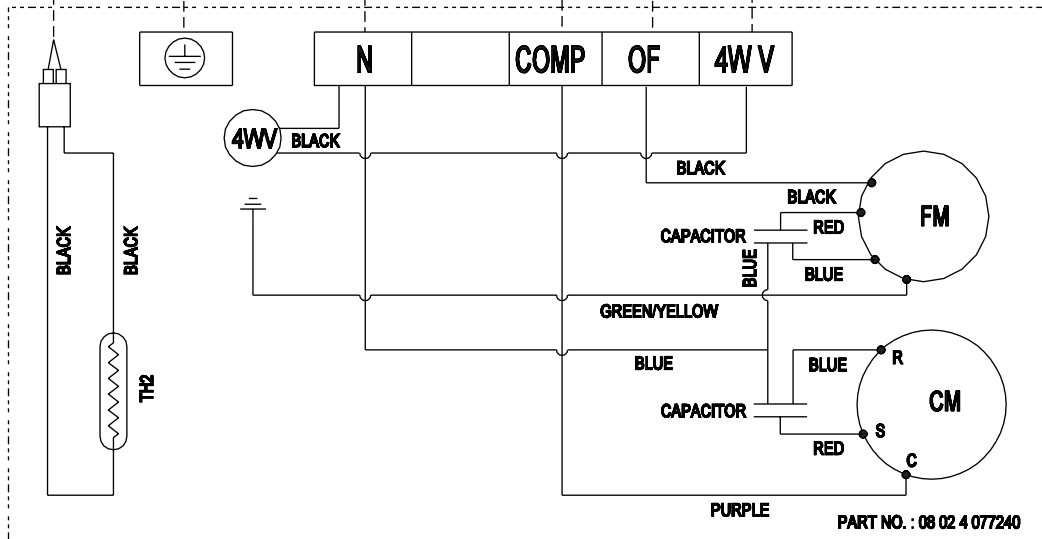


**OUTDOOR UNIT
MODEL : ALC 15CR**

INDOOR UNIT
MODEL : ACK /A5CK 20CR

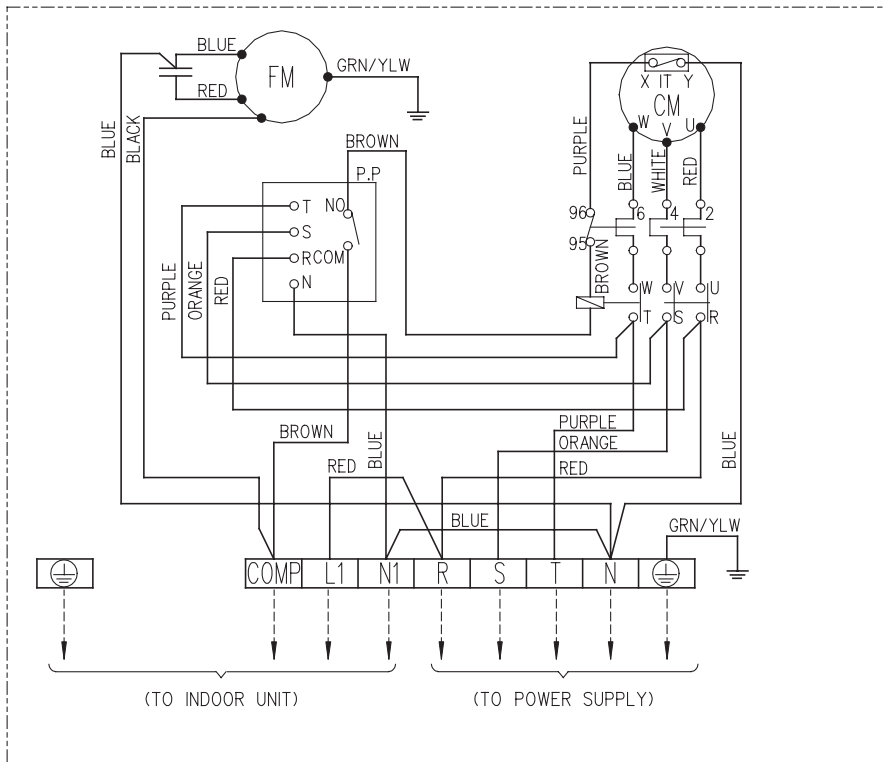


E 1PHASE
 N 220/240VAC 50Hz OR
 I 208/230VAC 60Hz

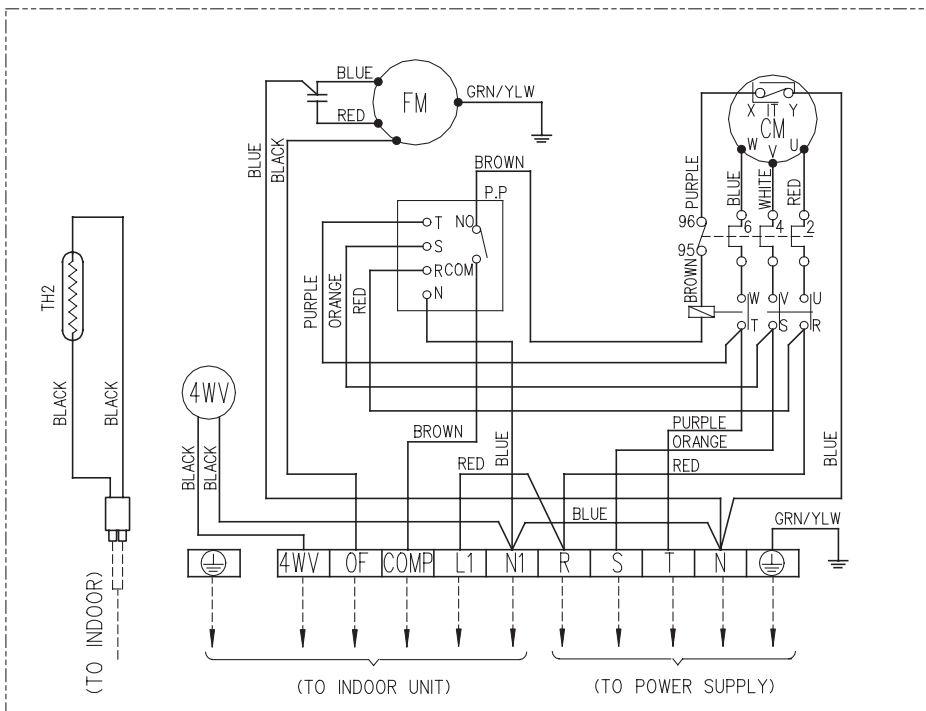


OUTDOOR UNIT
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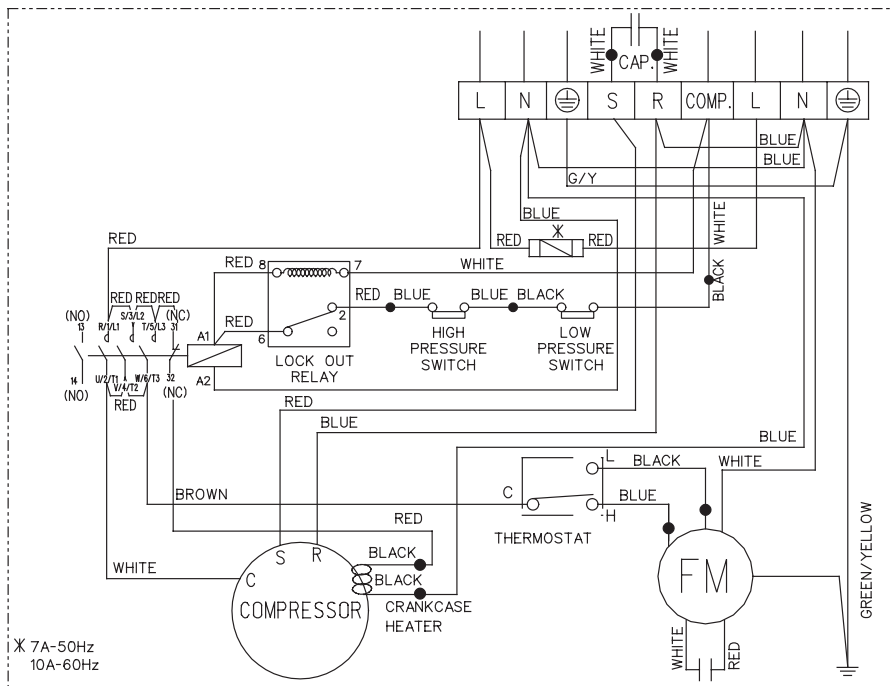
**3 PHASE FOR 2 & 2.5HP OUTDOOR UNIT
 MODEL: A5LC 20 / 25C (COOLING ONLY)
 3 PHASE / 50 HZ / 380 ~ 415V**



**MODEL : A5LC 20 / 25CR (HEAT PUMP)
 3 PHASE / 50 HZ / 380 ~ 415V**



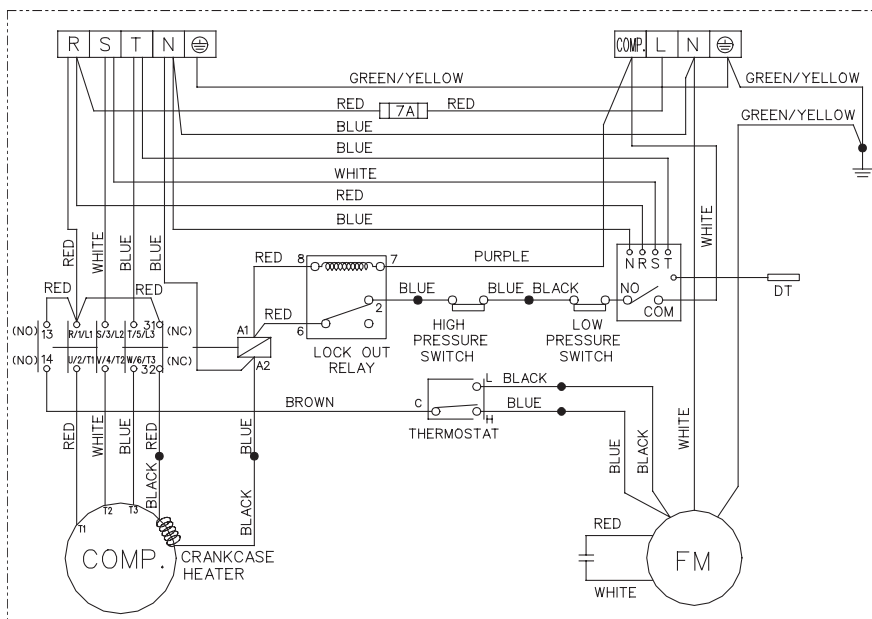
**HIGH AMBIENT UNIT
OUTDOOR UNIT
MODEL : ALC 30C (COOLING ONLY)
50HZ / 1 PHASE / 220 ~ 240V**



PART NO. : 08 02 4 068586

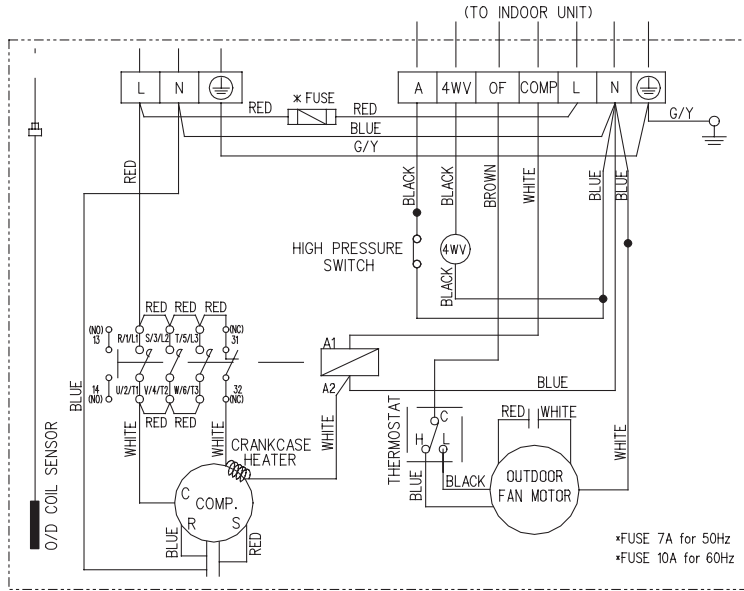
OUTDOOR UNIT

**HIGH AMBIENT UNIT
OUTDOOR UNIT
MODEL : ALC 40 / 050C (COOLING ONLY)
50HZ / 3 PHASE / 380 ~ 415V**



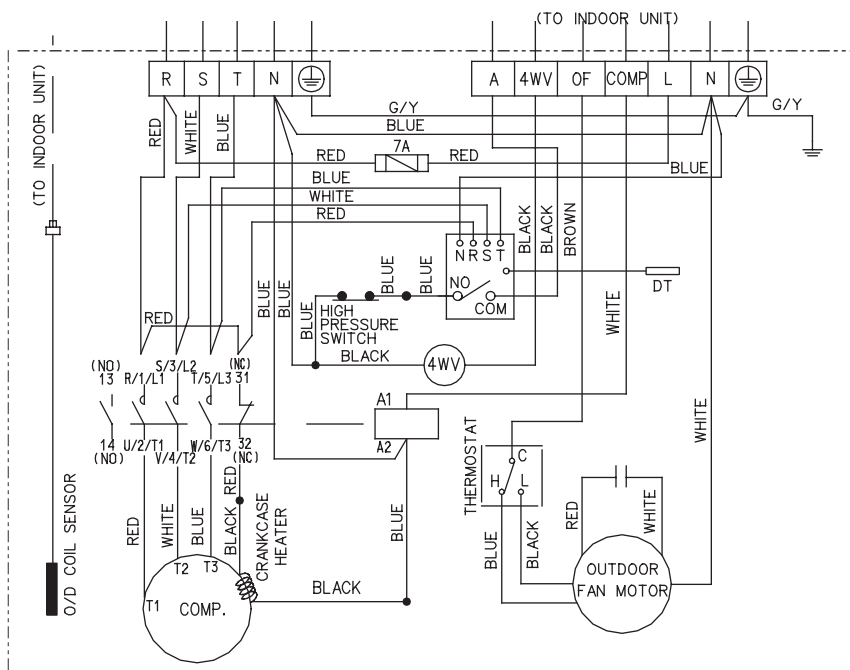
OUTDOOR UNIT

**HIGH AMBIENT UNIT
OUTDOOR UNIT
MODEL : ALC 30CR (HEATPUMP)
50HZ / 1 PHASE / 220 ~ 240V**



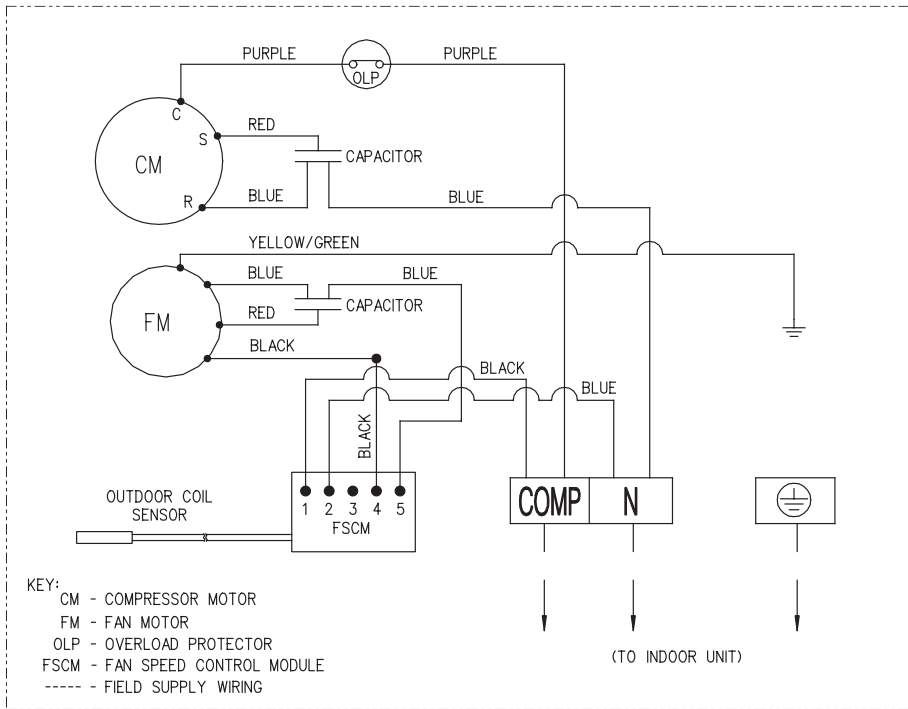
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**OUTDOOR UNIT
MODEL : ALC 40 / 50CR (HEATPUMP)
50HZ / 3 PHASE / 380 ~ 415V**

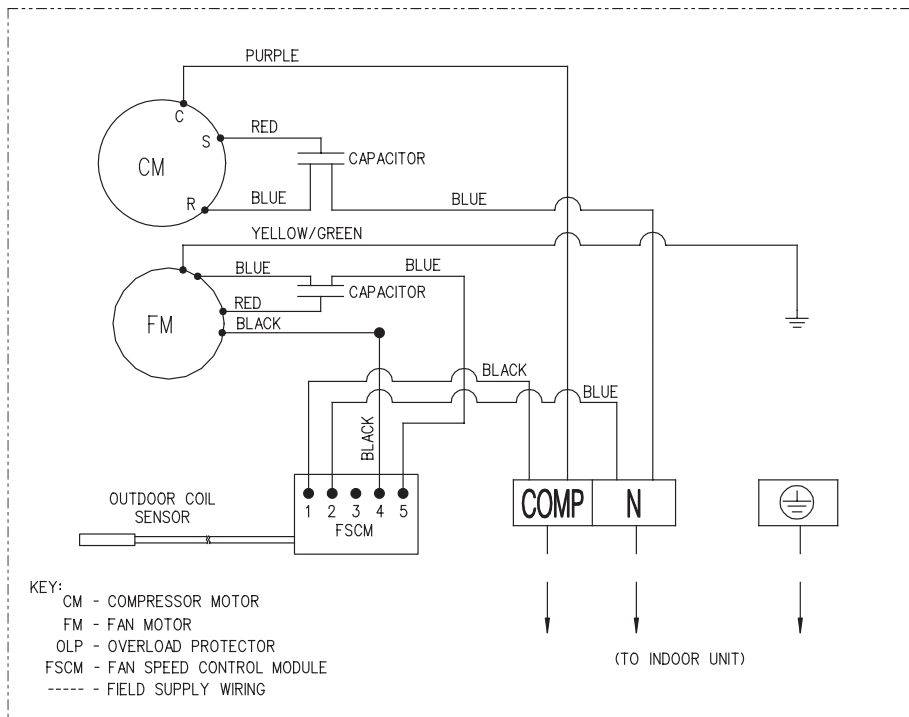


PART NO: 08 02 4 068993

**LOW AMBIENT UNIT
OUTDOOR UNIT
MODEL : ALC 10C (COOLING ONLY)
50HZ / 1 PHASE / 220 ~ 240V**



**LOW AMBIENT UNIT
OUTDOOR UNIT
MODEL : ALC 15C (COOLING ONLY)
50HZ / 1 PHASE / 220 ~ 240V**



9. SERVICING AND MAINTENANCE



Warning: **Disconnect from main supply before servicing the air conditioner**

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

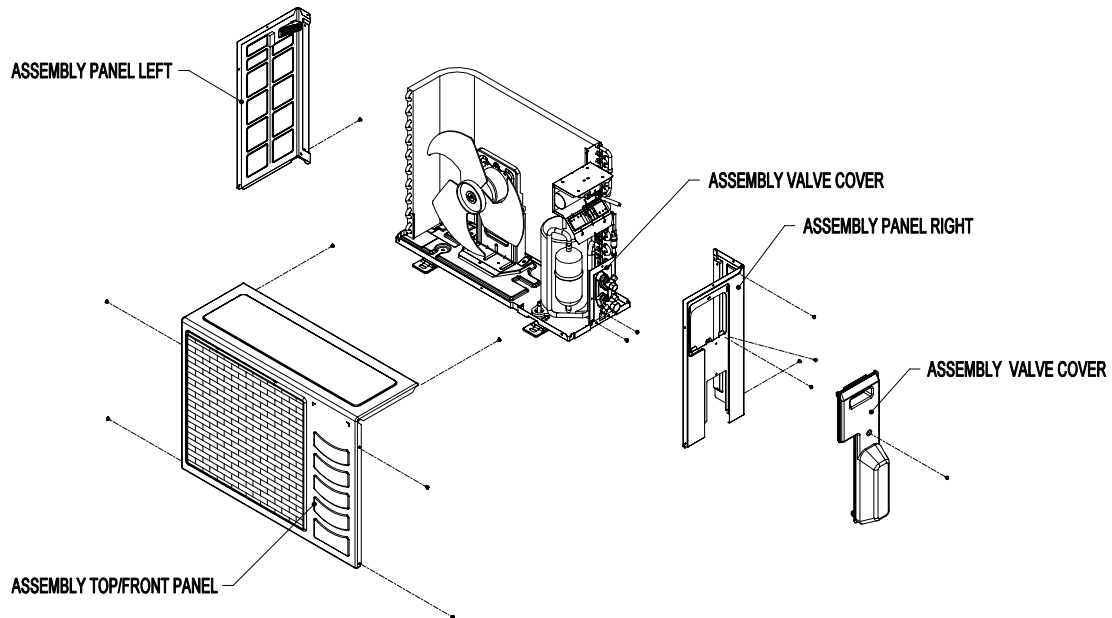
Components	Maintenance Procedures	Recommended Schedule
Air Filter (Indoor Unit)	<ol style="list-style-type: none"> 1. Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40°C) with a neutral cleaning detergent. 2. Rinse the filter well and dry before placing it back onto the unit. 3. Note: Never use gasoline, volatile substances or chemicals to clean the filter. 	At least once every 2 weeks. More frequently if necessary.
Indoor Unit	<ol style="list-style-type: none"> 1. Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40°C) and a neutral detergent solution. 2. Note: Never use gasoline, volatile substances or chemicals to clean the indoor unit. 	At least once every 2 weeks. More frequently if necessary.
Condense Drain Pan & Pipe	<ol style="list-style-type: none"> 1. Check the cleanliness and clean it if necessary. 2. Check the condensate water flow. 	Every 3 months.
Indoor Fan	Check if there is any abnormal noise.	If necessary.
Indoor / Outdoor Coil	<ol style="list-style-type: none"> 1. Check and remove the dirt between the fins. 2. Check and remove any obstacles which hinder air flow through the indoor or outdoor. 	Every month.
Power Supply	<ol style="list-style-type: none"> 1. Check the running current and voltage for indoor and outdoor unit. 2. Check the electrical wiring and tighten the wire onto the terminal block if necessary. 	Every 2 months. Every year.
Compressor	No maintenance needed if refrigerant circuit remains sealed. However, check for refrigerant leak at joint and fitting.	Every 6 months.
Compressor Oil	Oil is factory charged. Not necessary to add oil if circuit remains sealed.	No maintenance required.
Fan Motor Oil	All motors are 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.

For ALC Outdoor Models

The design of the ALC outdoor series allows servicing to be carried out easily. The removal of the top, front and side panels makes almost every part accessible.



Under normal circumstances, these outdoor units only require a check and cleaning of air intake coil surface once every 3 months. However, if a unit is installed in areas subjected to much oil mist and dust, the coils must be regularly cleaned by qualified Air Conditioner Service Technicians to ensure sufficient heat exchange and proper operation. Otherwise, the systems life span may be shortened.

CAUTION!

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

10. TROUBLESHOOTING

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

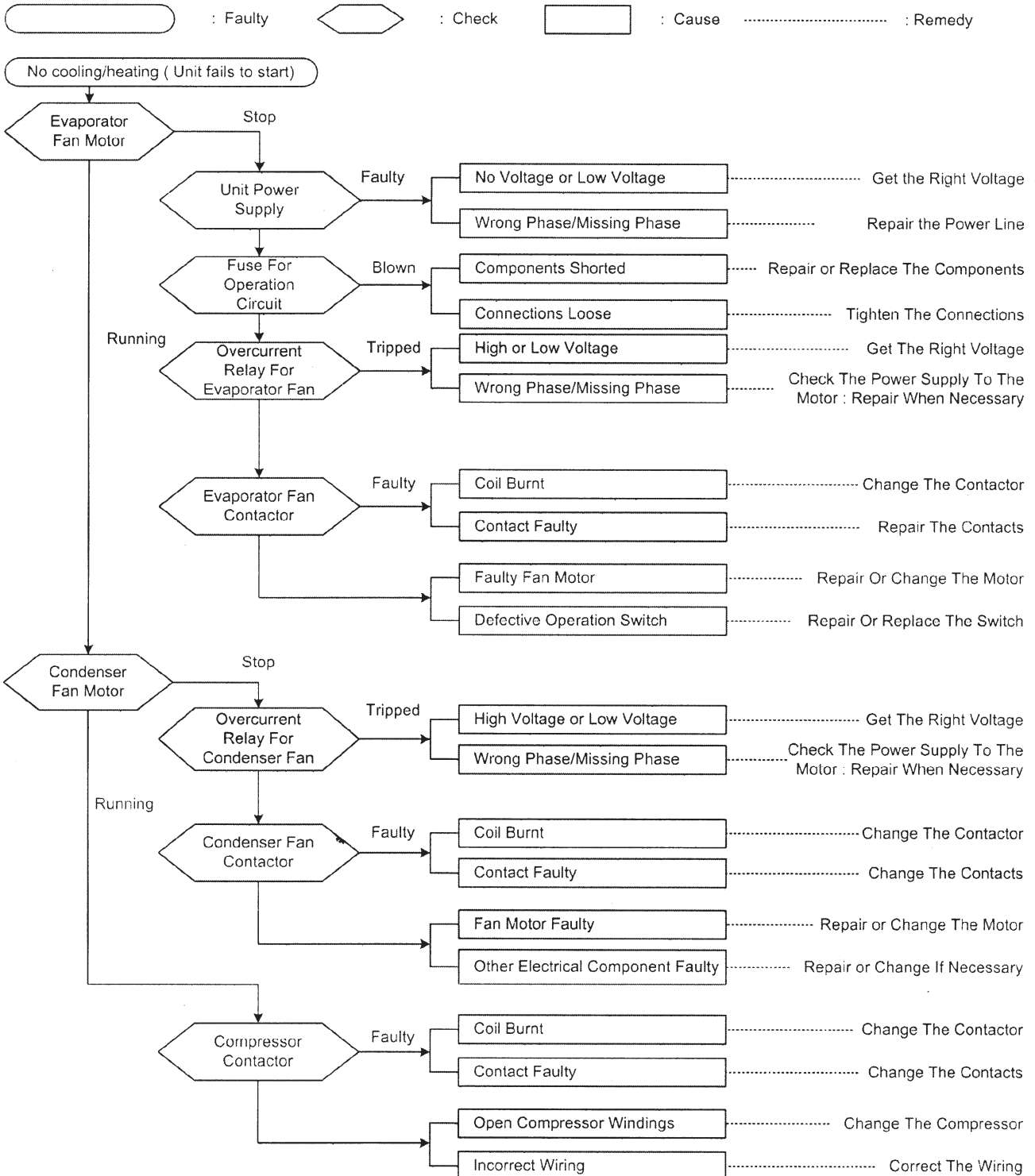
By means of pressure reading:

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"> • • 	<ol 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	•				•	<ol style="list-style-type: none"> 1. Poor compression / no compression (compressor defective) 2. Reversing valve leaking.
High side Low side	•	•				<ol 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				•	•	<ol 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				•	•	<ol 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

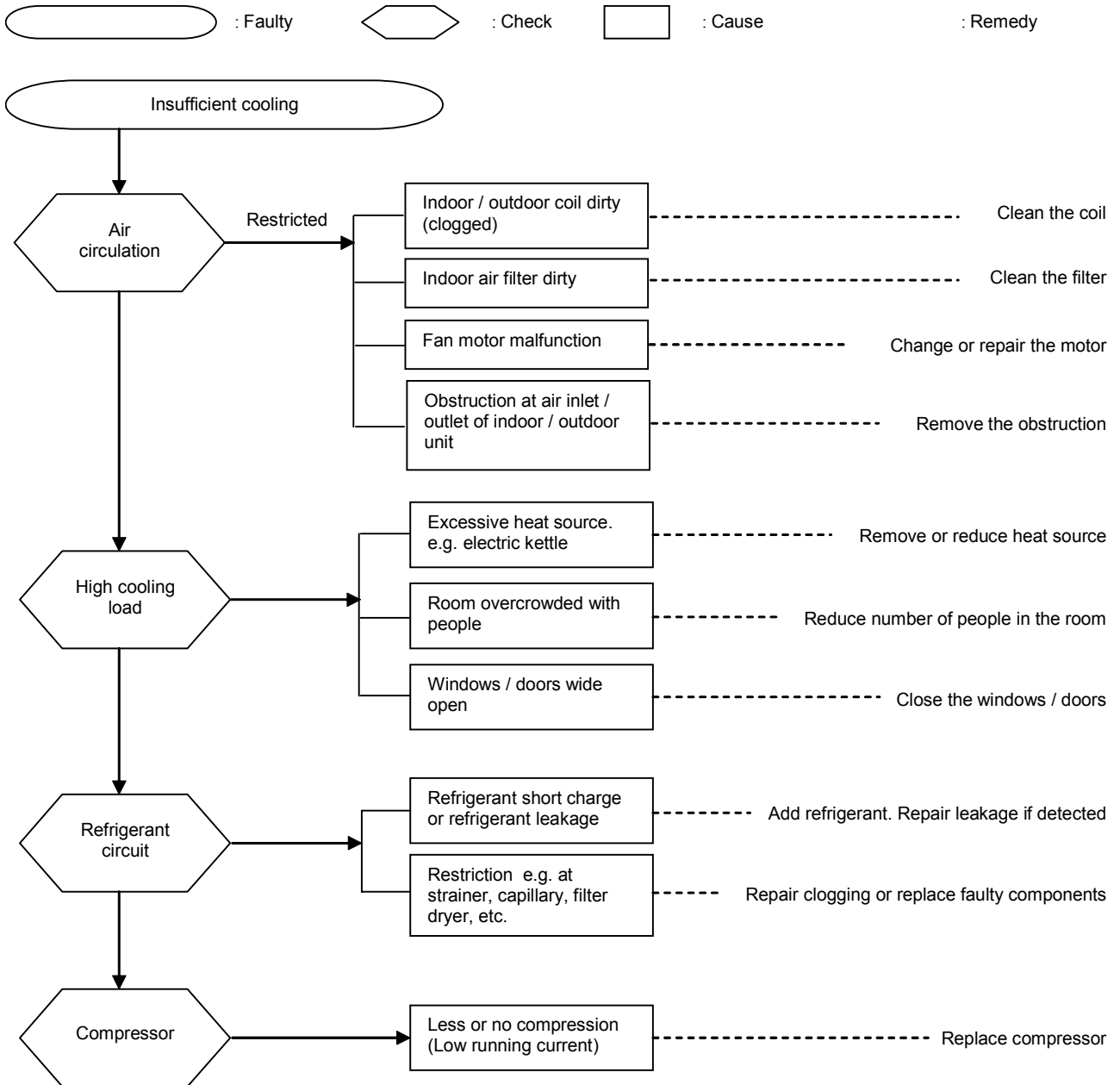


The most common causes of air conditioner failure to "start" are :

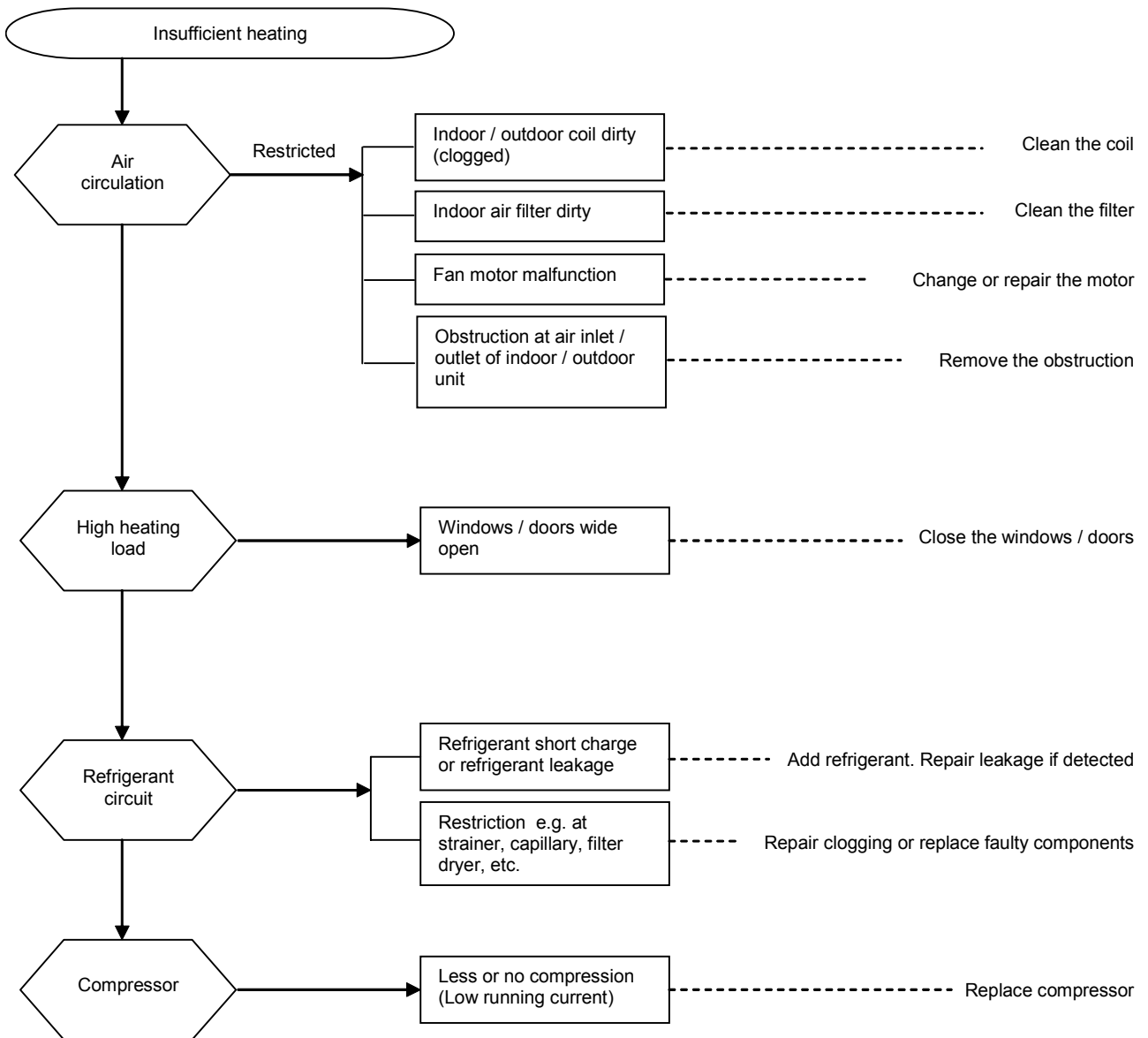
- a) Voltage not within ±10% of rated voltage.
- b) Power supply interrupted.
- c) Improper control settings.
- d) Air conditioner is disconnected from main power source.
- e) Fuse blown or circuit breaker off.

ii) Diagnosis of Refrigerant Circuit / Application

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



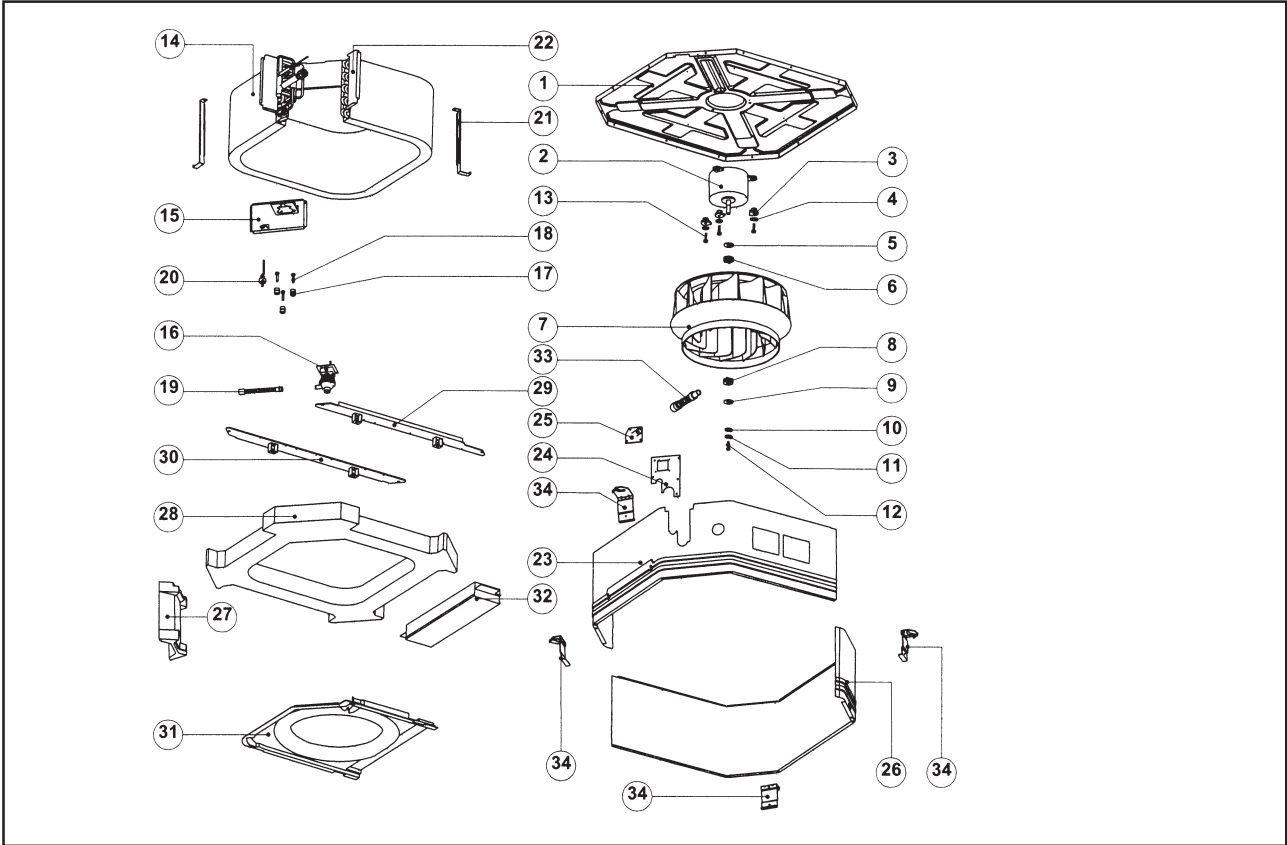
Satisfactory operation with temperature difference of air intake & discharge of indoor unit 8°C to 13°C. *
 (* value is for reference only)



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

11. EXPLODED VIEW AND PARTS LIST

UNIT - ACK - A/AR (R22)



No	Description	Part No.
1	Base Pan	R50013028745
2	Fan Motor	
	ACK 20A/AR	R03039001735
	ACK 25A/AR	R03039001734
	ACK 30A/AR	R03039001612
	ACK 40A/AR	R03039006056
	ACK 50A/AR	R03039006057
3	Fan Motor Bush	R11014026620
4	Plain Washer	R07044003768
5	Fan Motor Washer	R01024031691
6	Bottom Coupling	R11054026619
7	Turbo Fan	R03029001613
8	Top Coupling	R11054026610
9	Flat Washer	R07044003872
10	Plain Washer	R07044003768
11	Spring Washer	R07044003769
12	Hexagon Bolt, M8 x 20mm	R07034003822
13	Hexagon Bolt, M8 x 15mm	R07034028746
14	Assy., Coil	
	ACK 20A	R50029006230
	ACK 20AR	R50029008682
	ACK 25A	R50029006231
	ACK 30A	R50029006232
	ACK 25/30AR	R50029008683
	ACK 40/50A	R50029006233
	ACK 40/50AR	R50029008684

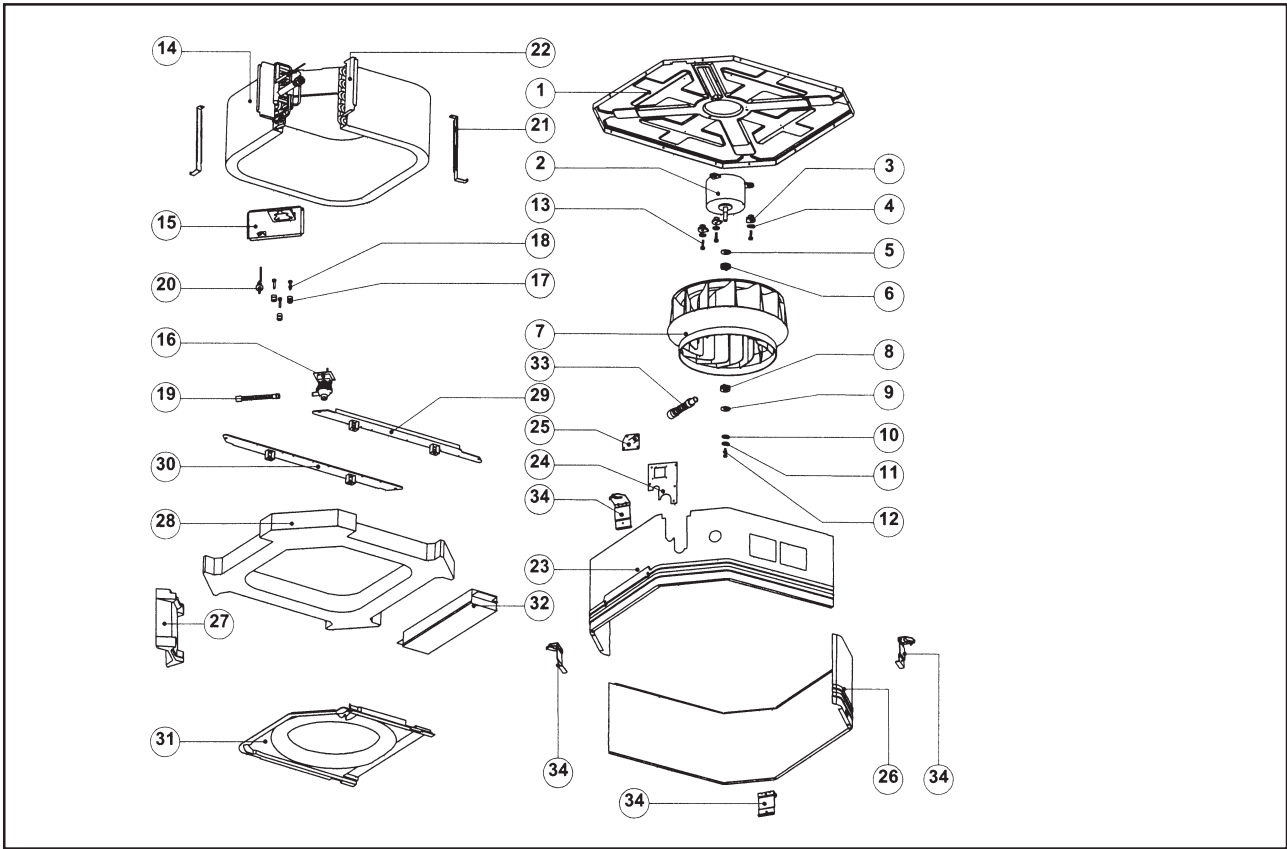
No	Description	Part No.
15	Drain Pump Bracket	R50014028765
16	Drain Pump	R04139001614
17	Drain Pump Bush	R11014026614
18	Hexagon Bolt, M5 x 27mm	R07034028747
19	Drain Hose	R10029001615
20	Level Switch	R04069022966
21	Coil Support	R01024028602
22	Partition	R50014028766
23	Side Panel Front	R50013028767
24	Valve Plate	R01014028024
25	Drain Connector	R12014028769
26	Side Panel Back	R50013028771
27	Air Guide	R12033028773
28	Drain Pan	R50123028775
29	Fix Bracket Front	R50014028779
30	Fix Bracket Back	R50014028782
31	Fan Cover	R12010027359
32	Terminal Box	R50014033553
33	Drain Pipe	R50124025113
34	Hanger A	R01024037399
	Hanger B	R01014037400
	Hanger C	R01024037401

Parts Not in Diagram

No	Description	Part No.
	L2 Control Module	
	Cooling Only Models	R04089027262
	Heat Pump Models	R04089027263

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

UNIT - ACK - A/AR (R410A)



No	Description	Part No.
1	Base Pan	R50013028745
2	Fan Motor ACK 20A/AR ACK 25A/AR ACK 30A/AR ACK 40A/AR ACK 50A/AR	R03039001735 R03039001734 R03039001612 R03039006056 R03039006057
3	Fan Motor Bush	R11014026620
4	Plain Washer	R07044003768
5	Fan Motor Washer	R01024031691
6	Bottom Coupling	R11054026619
7	Turbo Fan	R03029001613
8	Top Coupling	R11054026610
9	Flat Washer	R07044003872
10	Plain Washer	R07044003768
11	Spring Washer	R07044003769
12	Hexagon Bolt, M8 x 20mm	R07034003822
13	Hexagon Bolt, M8 x 15mm	R07034028746
14	Assy., Coil A5CK 20A/AR A5CK 25A/AR A5CK 30/40A/AR A5CK 50A/AR	R50024082149 R50024082148 R50024080686 R50024082914
15	Drain Pump Bracket	R50014028765
16	Drain Pump	R04139001614

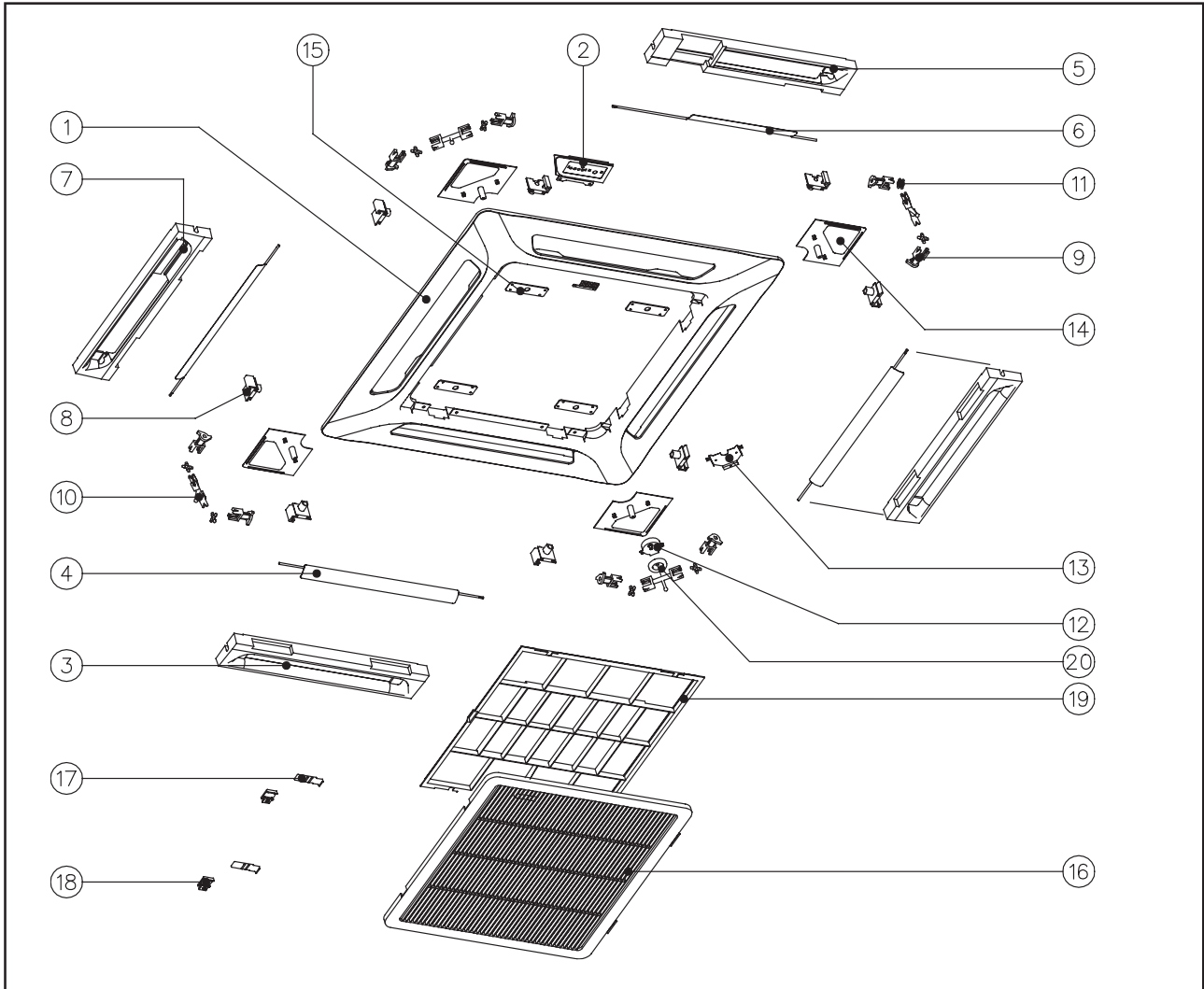
No	Description	Part No.
17	Drain Pump Bush	R11014026614
18	Hexagon Bolt, M5 x 27mm	R07034028747
19	Drain Hose	R10029001615
20	Level Switch	R04069022966
21	Coil Support	R01024028602
22	Partition	R50014028766
23	Side Panel Front	R50013028767
24	Valve Plate	R01014028024
25	Drain Connector	R12014028769
26	Side Panel Back	R50013028771
27	Air Guide	R12033028773
28	Drain Pan	R50123028775
29	Fix Bracket Front	R50014028779
30	Fix Bracket Back	R50014028782
31	Fan Cover	R12010027359
32	Terminal Box	R50014033553
33	Drain Pipe	R50124025113
34	Hanger A Hanger B Hanger C	R01024037399 R01014037400 R01024037401

Parts Not in Diagram

	L2 Control Module Cooling Only Models	R04089027262
	Heat Pump Models	R04089027263

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PANEL - ACK – A/AR



No	Description	Part No.
1	Front Frame Panel	R12010024616
2	Receiver Bracket	R12013028834
3	Discharge Housing A	R06083028837
4	Assy., Louver A	R50124072026
5	Discharge Housing B	R06083028843
6	Assy., Louver B	R50124073292
7	Discharge Housing D	R06083028846
8	Louver Bracket	R12014028670
9	Crank Shaft	R12014028671
10	Crank Connector	R12014028673
11	Crank Cross	R12014028669
12	Swing Motor	R03039001653

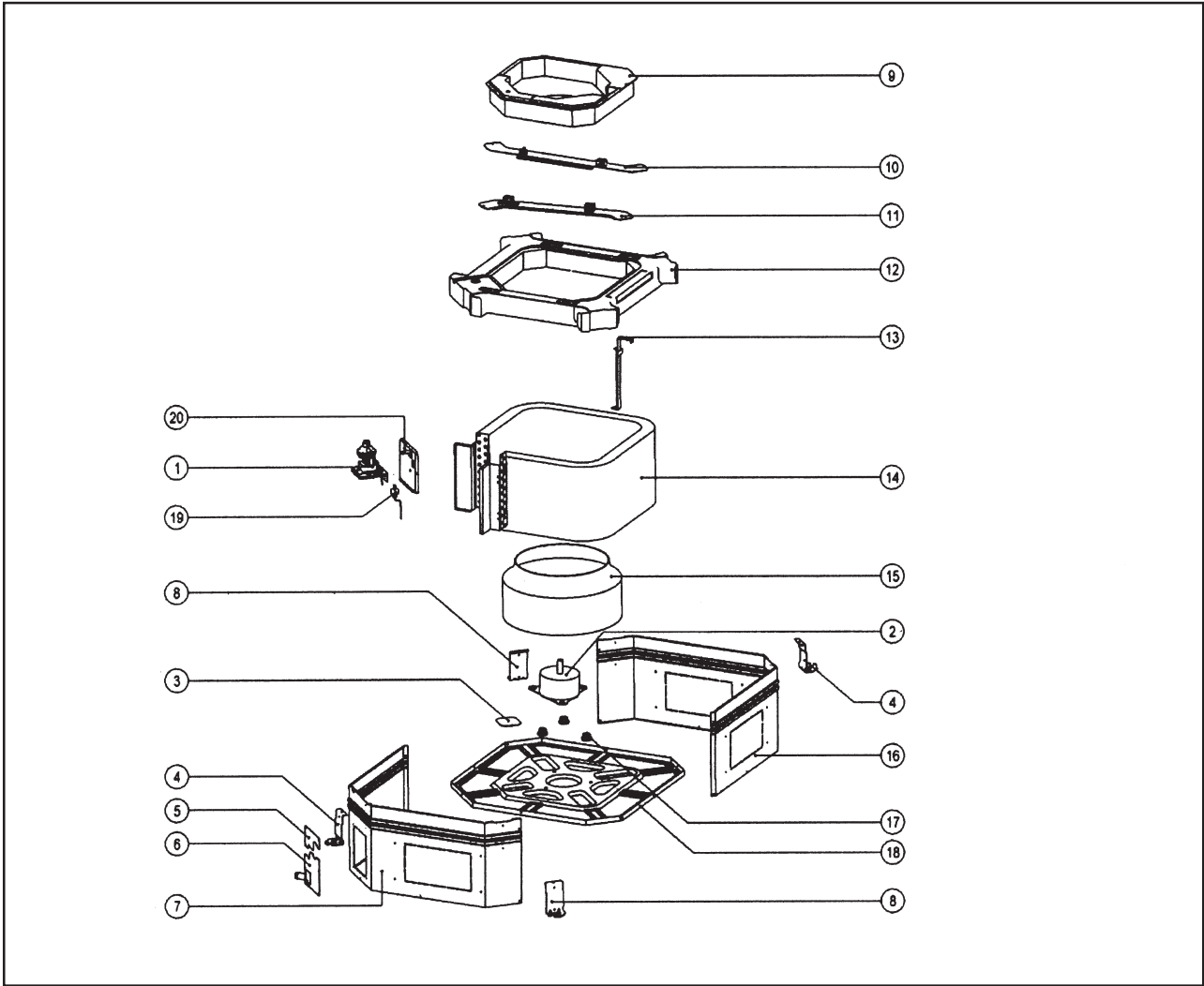
No	Description	Part No.
13	Swing Motor Bracket	R01024033167
14	Panel Cover	R12014028668
15	Fix Plate	R01024028051
16	Air Intake Grille	R12010021920
17	Grille Lock	R12014028674
18	Grille Lock Bracket	R12014028675
19	Air Filter	R03080021919
20	Air Swing Cap	R12014028672

Parts Not in Diagram

	G8 Handset	
	Cooling Only Model	R04084048493
	Heat Pump Model	R04084048496

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UNIT - ACK - B/BR

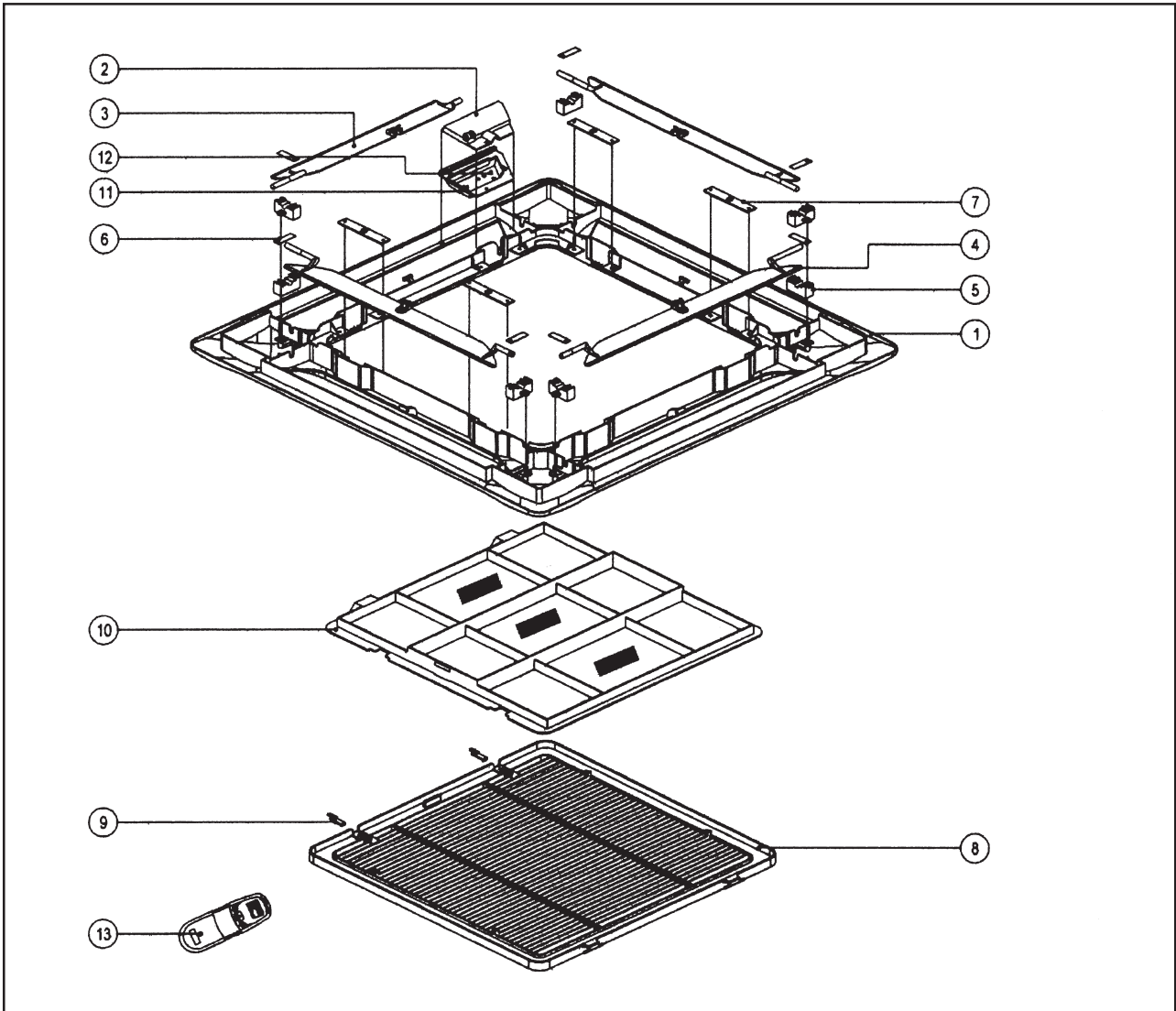


No	Description	Part No.
1	Drain Pump	R04139001614
2	Fan Motor ACK 15/20B/BR ACK 25B/BR	R03039011983 R03039010829
3	Plate Wire	R01014040805
4	Assy., Hanger Bracket A	R50014042806
5	Assy., Valve Plate Bottom	R50014042379
6	Assy., Valve Plate Top	R50014042381
7	Assy., Panel B	R50014042452
8	Assy., Hanger Bracket B	R50014042807
9	Assy. Control Box ACK 15/20B ACK 15/20BR ACK 25B ACK 25BR	A50044058860 A50044058857 A50044058861 A50044058858
10	Assy, Holder Grille - Long	R50014042450
11	Assy, Holder Grille - Short	R50014042449
12	Drain Pan	R50064040826

No	Description	Part No.
13	Coil Holder	R50014042881
14	Assy., Coil ACK 15B/BR ACK 20B/BR ACK 25B/BR	R50024051456 R50024043533 R50024043534
15	Turbo Fan	R03024043626
16	Assy., Panel A	R50014042451
17	Bush, Fan Motor	R11014049558
18	Base Pan	R50014042382
19	Level Switch	R04069022966
20	Drain Pump Support Plate	R50044032469
Parts Not in Diagram		
	U1.4 Control Module Cooling Only Models Heat Pump Models	A04089014297 A04089014296
	Capacitor ACK 15/20B/BR ACK 25B/BR	R04024021453 R04029026755

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PANEL - ACK - B/BR

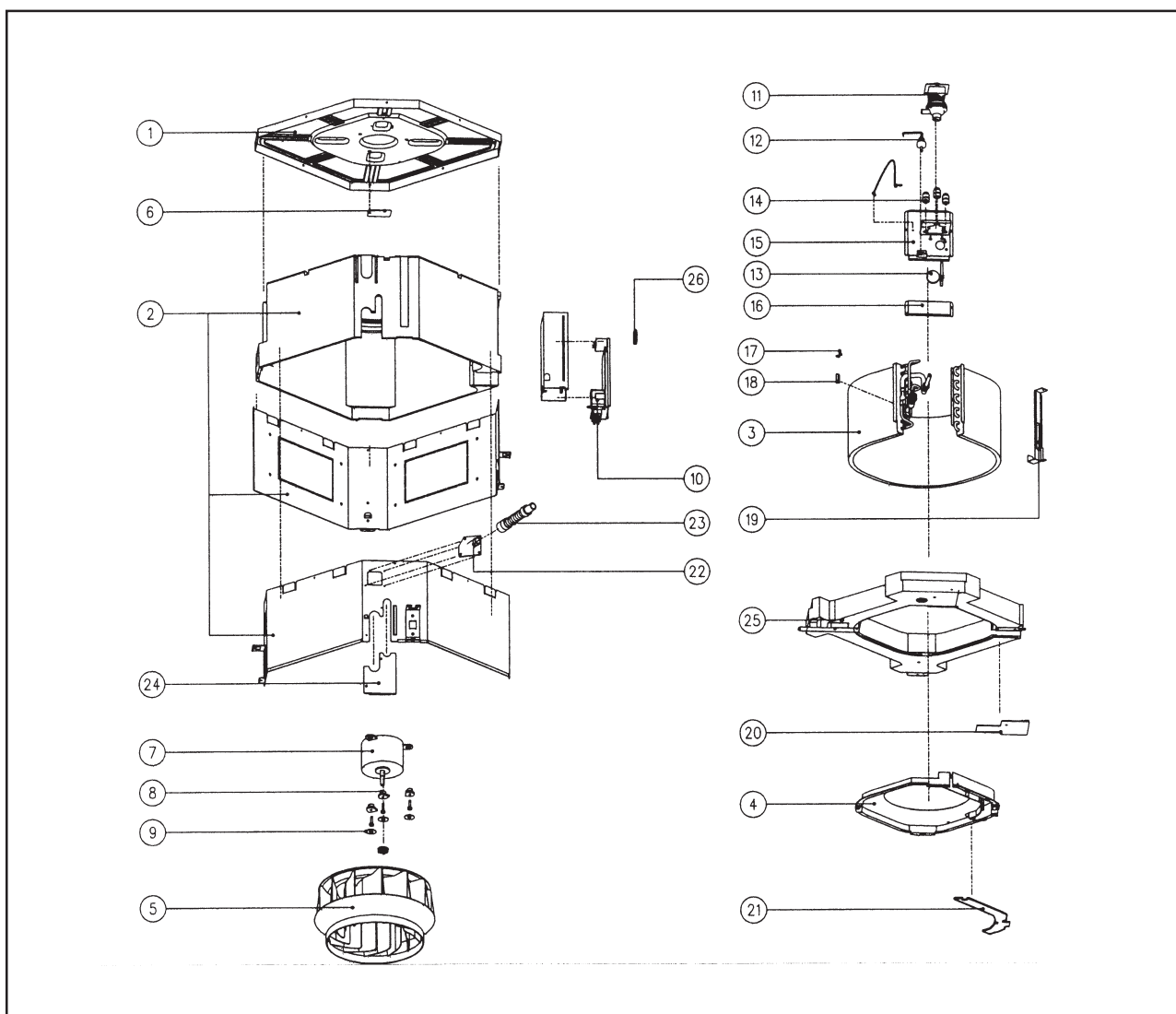


No	Description	Part No.
1	Frame	R12014038964
2	Receiver Bracket	R12014045443
3	Louver, Short	R12014040820
4	Louver	R12014040819
5	Louver Holder	R12014033620
6	Louver Clip	R01014040822
7	Plate, Fix	R01014032703
8	Intake Grille	R12014038962
9	Grille Lock	R12014040824

No	Description	Part No.
10	Air Filter	R12014040825
11	Receiver Cover	R12014045442
12	LED Display Board	
	Cooling Only Models	R12019010871
	Heat Pump Models	R12019012315
13	G8 Handset	
	Cooling Only Model	R04084048493
	Heat Pump Model	R04084048496

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UNIT ACK - C/CR

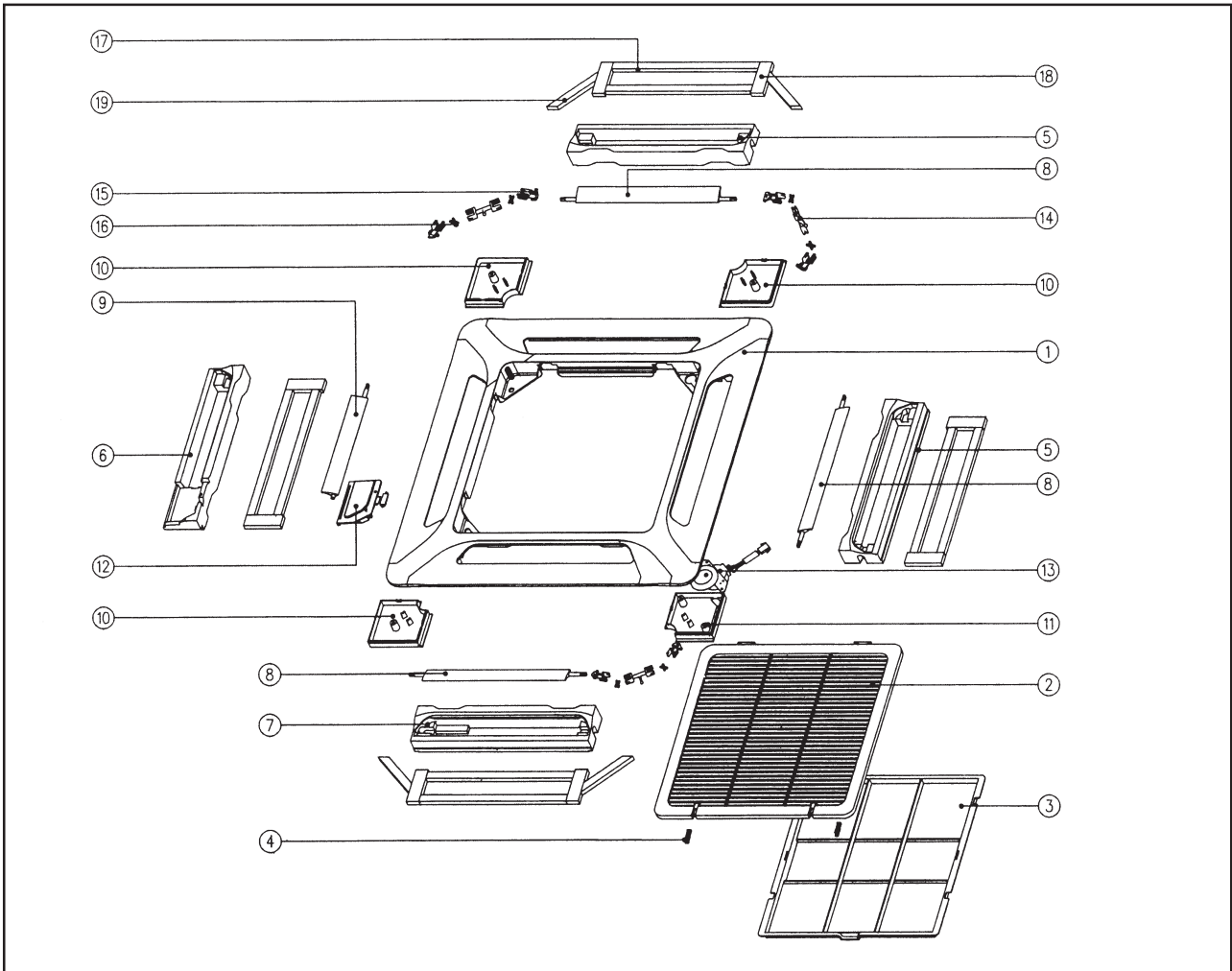


No	Description	Part No.
1	Assy., Base Pan	R01014053368
2	Assy., Casing Side Panel A Side Panel B	R50014057905 R01014053369 R01014053370
3	Assy., Coil ACK / A5CK 10C/CR ACK / A5CK 15C/CR, A5CK 20CR ACK 20C ACK 20CR A5CK 20C	R50024061111 R50024061114 R50024061115 R50024061229 R50024068865
4	Fan Cover	R12014053394
5	Turbo Fan	R03029016598
6	Plate, Wire	R01014053397
7	Fan Motor ACK / A5CK 10C/CR ACK / A5CK 15C/CR ACK / A5CK 20C/CR	R03039025286 R03039025285 R03039025284
8	Bush, Fan Motor	R11014049558
9	Bush, Fan Motor Ring	R11014049559
10	L2 Control Module Cooling Only Models Heat Pump Models	R04089016654 R04089027274

No	Description	Part No.
11	Drain Pump	R04139001614
12	Level Switch	R04069022966
13	Bush, Wire	R11014001876
14	Bush, Drain Pump	R11014026614
15	Assy., Drain Pump Support Bracket	R50014054265
16	Assy., End Plate Support	R50014057987
17	Clip, Coil Sensor	R07054021183
18	Tube, Coil Sensor Holder	R02019014065
19	Bracket, Coil	R01014053398
20	Cover, Terminal	R12014053387
21	Cover, Wire	R12014053396
22	Drain Connector	R12014028769
23	Drain Hose	R10029001615
24	Assy., Valve Cover	R50014057903
25	Assy., Drain Pan	R50064061257
26	Bush, Wire	R11014042391
Parts Not in Diagram		
	Capacitor ACK / A5CK 10/15C/CR ACK / A5CK 20C/CR	R04029026753 R04029026755

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PANEL : ACK - C/CR

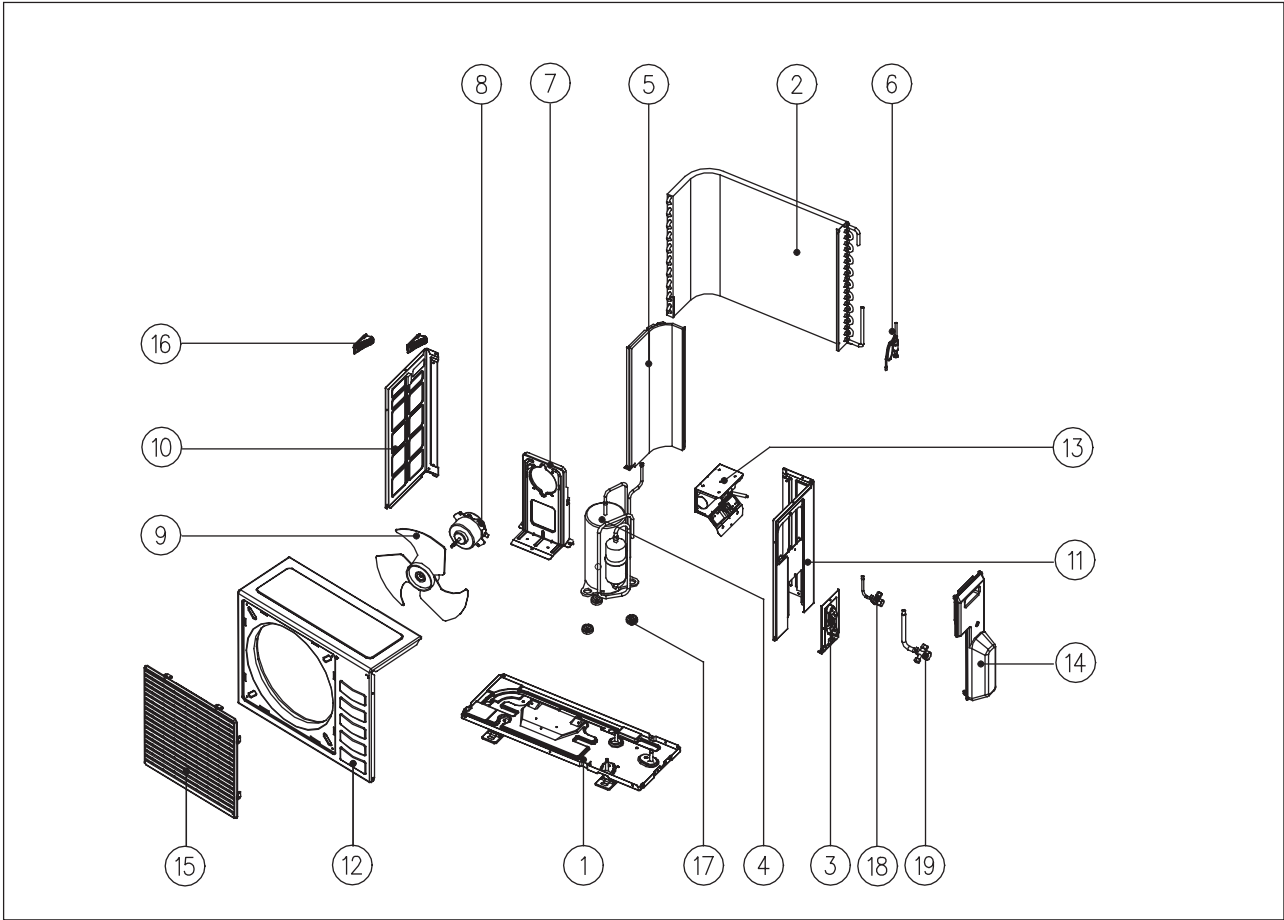


No	Description	Part No.
1	Frame	R12014053936
2	Intake Grille	R50124054279
3	Air Filter	R12014053942
4	Grille Lock	R12014053940
5	Discharge Foam	R50064058333
6	Discharge Foam, LED	R50064058332
7	Discharge Foam, Short	R50064058331
8	Louver	R12014084918
9	Louver, LED	R50124084915
10	Linkage Cover	R12014053947
11	Linkage Cover, Motor	R12014053946
12	Assy., Bracket Receiver	R12014053937

No	Description	Part No.
13	Air Swing Motor	R50134058091
14	Crank Connector	R12014053952
15	Louver Holder	R12014053943
16	Crank Cross	R12014028669
17	Insulation, Long	R06014055980
18	Insulation, Short	R06014055981
19	Insulation, Corner	R06014055982
Parts Not in Diagram		
	G8 Handset	
	Cooling Only Model	R04084048493
	Heat Pump Model	R04084048496
	Assy., LED	R04089016655

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MODEL : ALC / A5LC 10 / 15C

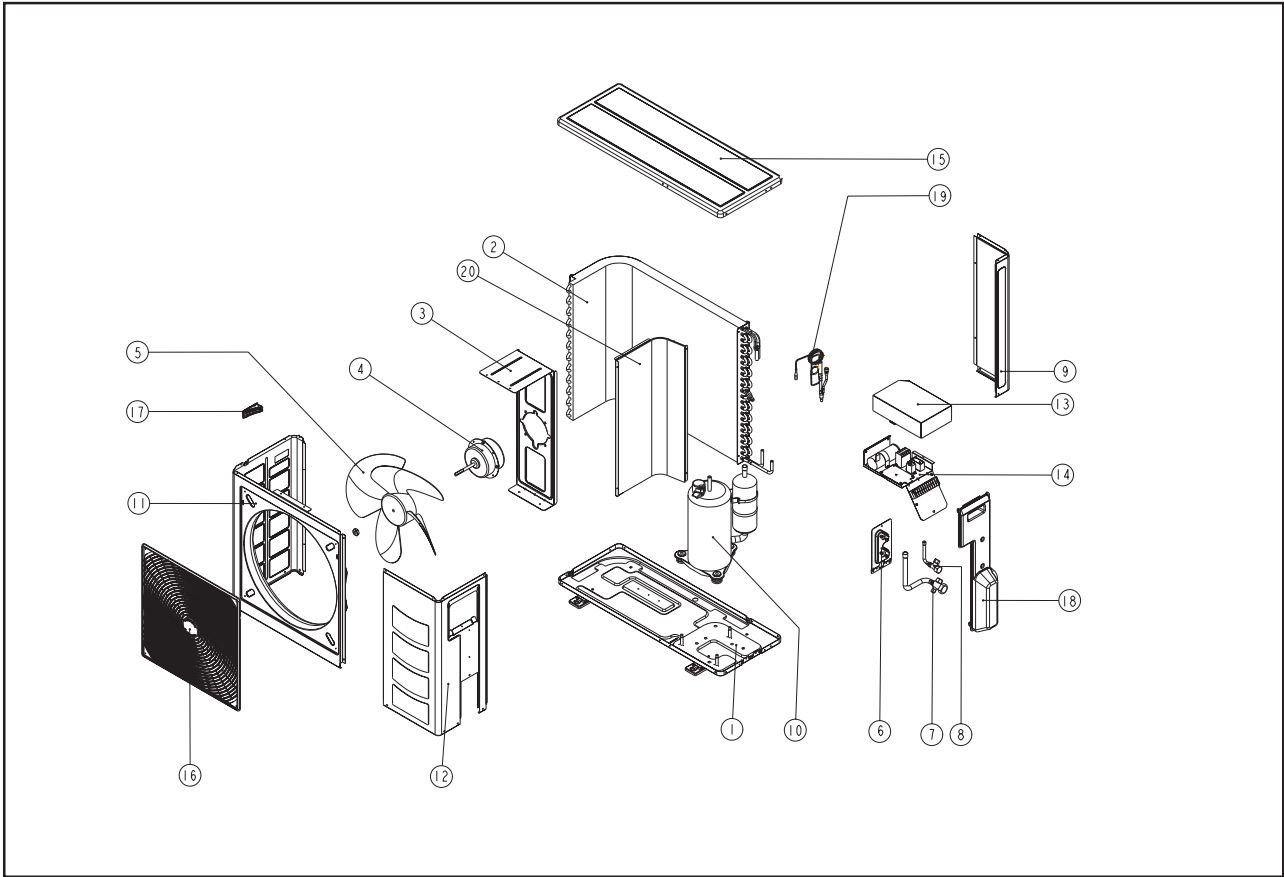


No	Description	Part No
1	Assy. Base Pan	R50014051158
2	Assy. Outdoor Coil ALC 10C A5LC 10C ALC 15C A5LC 15C	A50024085384 R50024083859 A50024087838 R50024084998
3	Valve Bracket	R01014051164
4	Compressor ALC 10C A5LC 10C ALC 15C A5LC 15C	R50049019551 R50049019591 A04019027709 R04019026326
5	Assy., Partition	R50064055063
6	Assy., Cap Tube ALC 10C A5LC 10C ALC / A5LC 15C	R50024085382 R50024084026 R50024087757
7	Bracket, Fan Motor	R01014051162
8	Fan Motor ALC / A5LC 10C ALC / A5LC 15C	R03039016104 R03039015323
9	Fan Blade	R03019015339
10	Left Panel	R01014051166

No	Description	Part No
11	Right Panel	R01014051167
12	Assy., Front Panel	R01014051171
13	Assy., Control Panel	R50044086056
14	Assy., Valve Cover	R50124051173
15	Assy., Front Grille	R50124056700
16	Plastic Handle	R12014057948
17	Rubber Grommet	R11054000271
18	Assy., Flare Valve 2 Ways 1/4" ALC 10/15C A5LC 10/15C	R50054054950 R50059019453
19	Assy., Flare Valve 3 Ways 3/8" ALC 10C A5LC 10C Assy., Flare Valve 3 Ways 1/2" ALC 15C A5LC 15C	R50054054951 R50059019454 R50054064042 R50059019452
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026755
	Capacitor, Compressor ALC 10C A5LC 10C ALC 15C A5LC 15C	A04024012931 R04029026774 R04029026775 R04029026776

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MODEL : ALC 18 / 20C, A5LC 20C



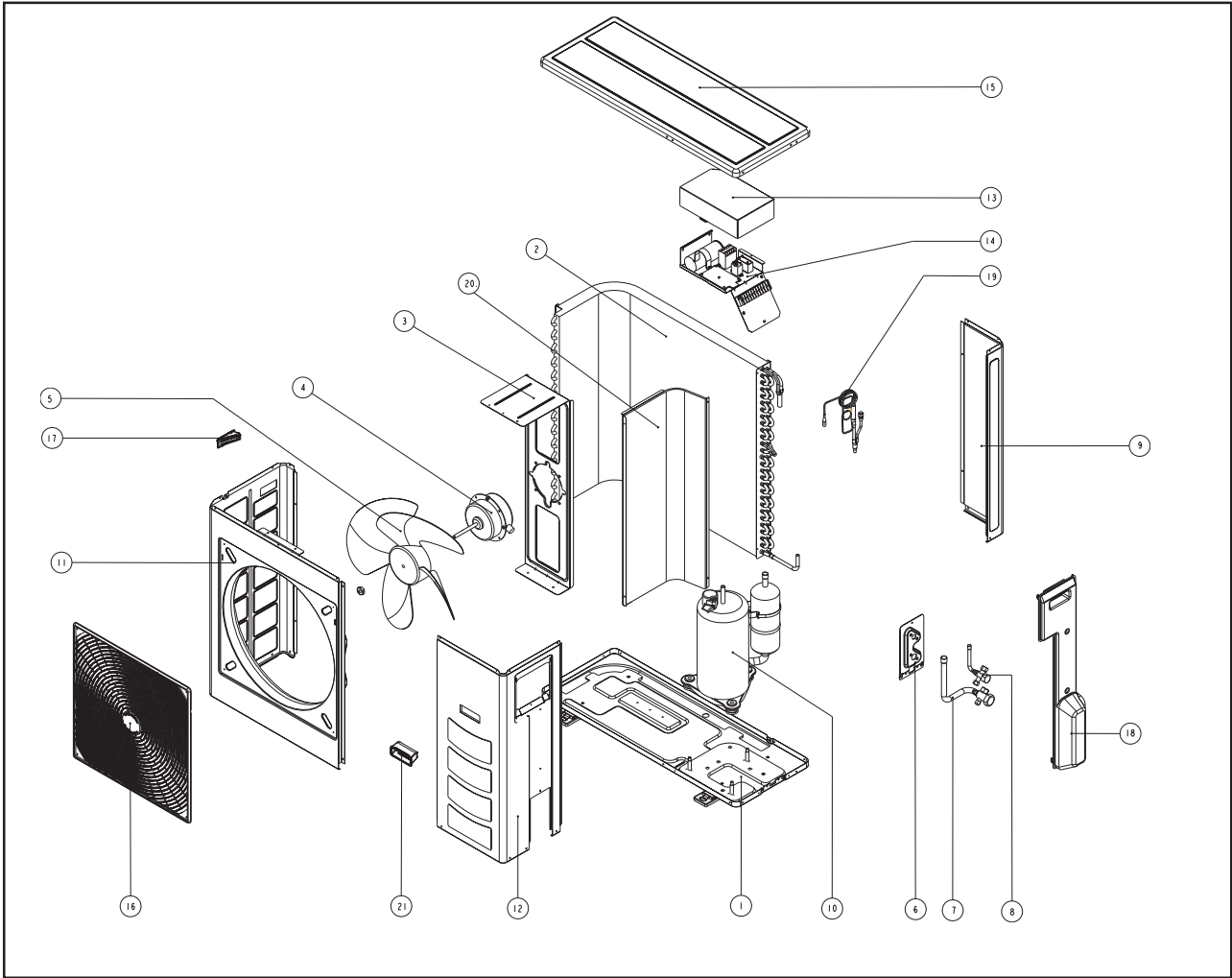
No	Description	Part No
1	Assy. Base Pan	R50014078281
2	Assy. Outdoor Coil ALC 18C ALC 20C A5LC 20C	R50024089940 A50024084570 R50024079078
3	Motor Bracket	R01014070601
4	Fan Motor	R03039024539
5	Fan Blade	R03019023393
6	Valve Bracket ALC 18/20C A5LC 20C	A50014072861 R50014078280
7	ALC 18/20C Assy. Flare Valve 3 Ways 5/8" A5LC 20C Assy. Flare Valve 3 Ways 1/2"	R50054072863 R50059023335
8	Assy. Flare Valve 2 Ways 1/4" ALC 18/20C A5LC 20C	R50059022156 R50059023334
9	Back Panel, Right	R01014070599

No	Description	Part No
10	Compressor ALC 18/20C A5LC 20C	A04019027266 R04019020625
11	Front Panel, Left	R01014070597
12	Service Panel	R01014070598
13	Terminal Cover Panel	R01014070838
14	Assy. Control Panel	R50014072877
15	Top Panel	R01014070596
16	Assy. Front Grille	R50124072880
17	Plastic Handle	R12014057948
18	Assy. Valve Cover	R50124072885
19	Assy. Cap Tube ALC 18C ALC 20C A5LC 20C	R50024089926 A50024087066 R50024081921
20	Partition	R01014070603

Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026759
	Capacitor, Compressor ALC 18/20C A5LC 20C	R04029026782 R04029026779

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MODEL : ALC / A5LC 25 / 28C

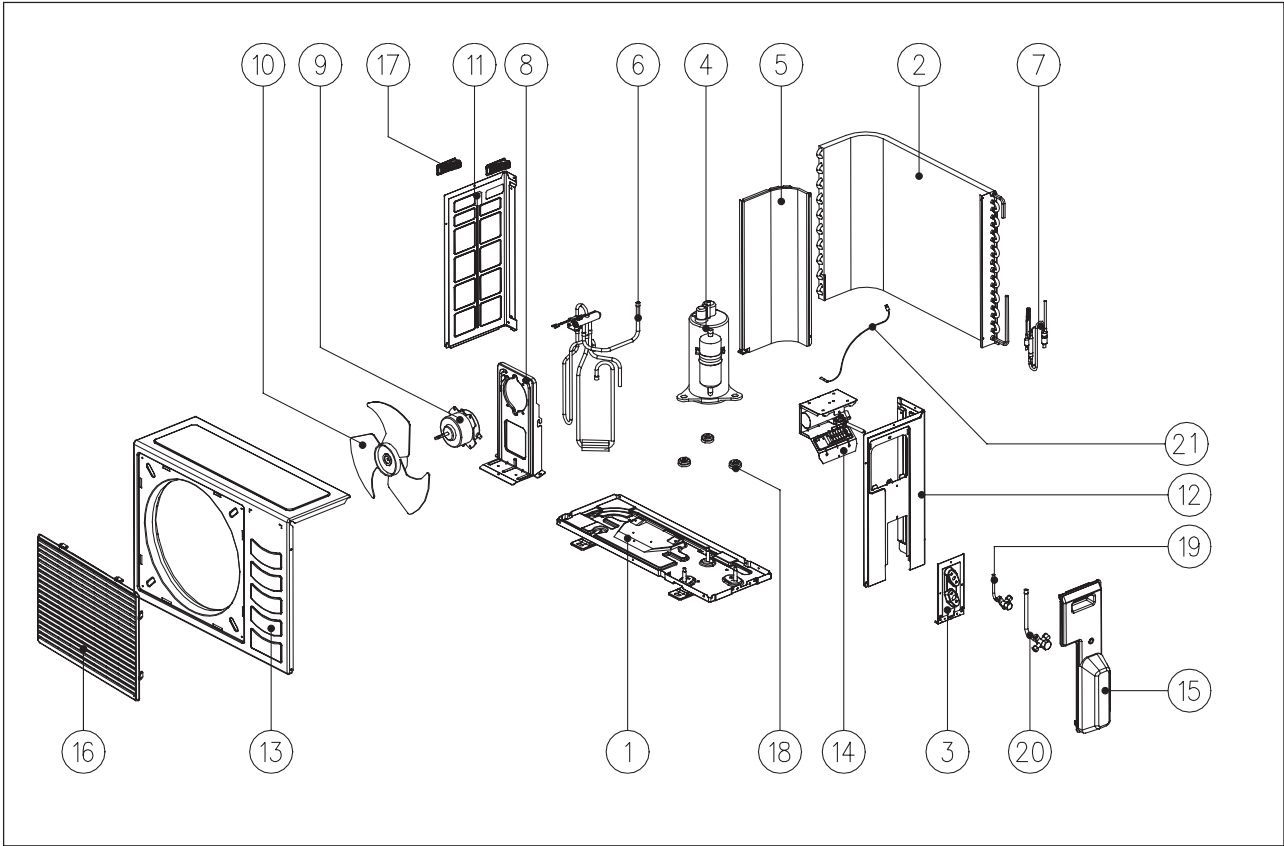


No	Description	Part No
1	Assy. Base Pan	R50014073884
2	Assy. Outdoor Coil ALC 25C A5LC 25/28C ALC 28C	R50024089206 R50024079238 A50024070959
3	Motor Bracket	R01014070948
4	Fan Motor ALC 25C A5LC 25C ALC / A5LC 28C	R03039028207 R03039023391 R03039024538
5	Fan Blade	R03019023393
6	Valve Bracket ALC 25/28C A5LC 25C A5LC 28C	A50014073890 R50014078321 R50014080371
7	Assy. Flare Valve 3 Ways 5/8" ALC 25/28C A5LC 25/28C	R50054072863 R50059023336
8	ALC 25/28C Assy. Flare Valve 3 Ways 3/8" A5LC 25C Assy. Flare Valve 2 Ways 1/4" A5LC 28C Assy. Flare Valve 3 Ways 3/8"	R50059022577 R50059023334 R50059024820
9	Back Panel, Right	R01014070950

No	Description	Part No
10	Compressor ALC 25C A5LC 25C ALC 28C A5LC 28C	A04019027570 R04019021361 R04019012828 R04019020449
11	Front Panel, Left	R01014070947
12	Service Panel	R01014070949
13	Terminal Cover Panel	A01014070838
14	Assy. Control Panel ALC / A5LC 25C ALC 28C A5LC 28C	R50044086076 R50044086137 R50044086138
15	Top Panel	R01014070596
16	Assy. Front Grille	R50124072880
17	Plastic Handle, Side	R12014057948
18	Assy. Valve Cover	R50124073905
19	Assy. Cap Tube ALC 25C A5LC 25C A5LC 28C	R50024090095 R50024081916 R50024079593
20	Partition	R01014070951
21	Plastic Handle, Front	R12014070955
Parts Not in Diagram		
	Capacitor, Fan Motor ALC / A5LC 25C ALC / A5LC 28C	R04029026759 R04029026966
	Capacitor, Compressor ALC / A5LC 25C, ALC 28C A5LC 28C	R04029026779 R04029026778

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MODEL : ALC / A5LC 10 / 15CR



No	Description	Part No
1	Assy. Base Pan	R50014051158
2	Assy. Outdoor Coil	
	ALC 10CR	A50024085384
	A5LC 10CR	R50024083859
	ALC 15CR	A50024086953
	A5LC 15CR	R50024084998
3	Valve Bracket	R01014051164
4	Compressor	
	ALC 10CR	R50049019551
	A5LC 10CR	R50049019591
	ALC 15CR	R04019019125
	A5LC 15CR	R04019026326
5	Assy., Partition	R50064055063
6	Assy., 4 Way Valve	
	ALC 10CR	R05019004157
	A5LC 10CR	R05019016936
	ALC 15CR	A50024087158
	A5LC 15CR	R50024084737
7	Assy., Cap Tube	
	ALC 10CR	R50024085462
	A5LC 10CR	R50024083856
	ALC 15CR	A50024087023
	A5LC 15CR	R50024084738
8	Bracket, Fan Motor	R01014051162
9	Fan Motor	
	ALC / A5LC 10C	R03039016104
	ALC / A5LC 15C	R03039015323

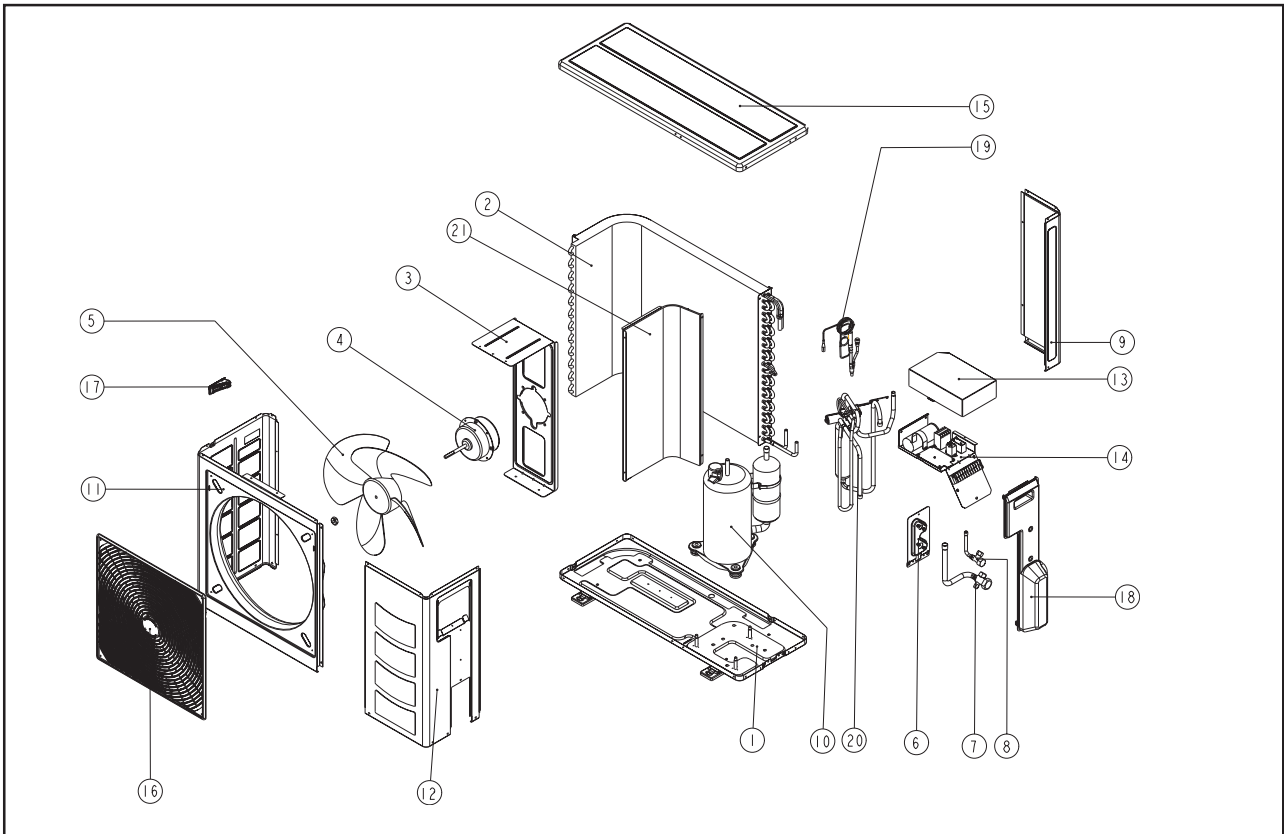
No	Description	Part No
10	Fan Blade	R03019015339
11	Left Panel	R01014051166
12	Right Panel	R01014051167
13	Assy., Front Panel	R01014051171
14	Assy., Control Panel	R50044086063
15	Assy., Valve Cover	R50124051173
16	Assy., Front Grille	R50124056700
17	Plastic Handle	R12014057948
18	Rubber Grommet	R11054000271
19	Assy., Flare Valve 2 Ways 1/4"	
	ALC 10/15CR	R50054054950
	A5LC 10/15CR	R50059019453
20	Assy., Flare Valve 3 Ways 3/8"	
	ALC 10CR	R50054054951
	A5LC 10CR	R50059019454
	Assy., Flare Valve 3 Ways 1/2"	
	ALC 15CR	R50054064042
	A5LC 15CR	R50059019452
21	Sensor, Outdoor Defrost	R50134039416

Parts Not in Diagram

No	Description	Part No
	Capacitor, Fan Motor	R04029026755
	Capacitor, Compressor	
	ALC 10C	A04024012931
	A5LC 10C	R04029026774
	ALC 15C	R04029026775
	A5LC 15C	R04029026776

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MODEL : ALC / A5LC 20CR, ALC 18CR

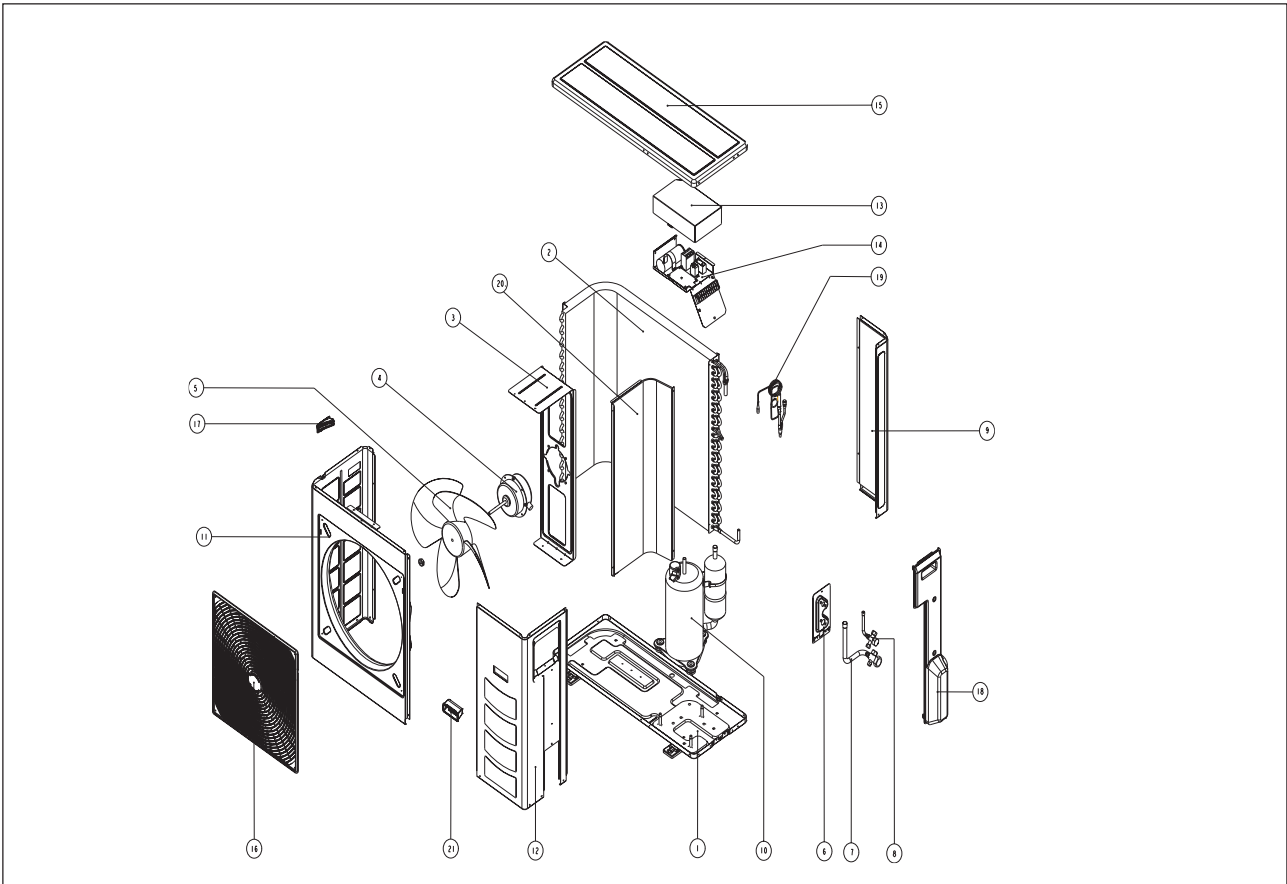


No	Description	Part No
1	Assy. Base Pan	R50014078281
2	Assy. Outdoor Coil ALC 18CR ALC / A5LC 20CR	R50024090296 R50024075143
3	Motor Bracket	R01014070601
4	Fan Motor	R03039024539
5	Fan Blade	R03019023393
6	Valve Bracket ALC 18/20CR A5LC 20CR	A50014072861 R50014078280
7	ALC 18/20CR Assy. Flare Valve 3 Ways 5/8" A5LC 20CR Assy. Flare Valve 3 Ways 1/2"	R50054072863 R50059023335
8	Assy. Flare Valve 2 Ways 1/4" ALC 18/20CR A5LC 20CR	R50059022156 R50059023334
9	Back Panel, Right	R01014070599
10	Compressor ALC 18/20CR A5LC 20CR	A04019027266 R04019020625

No	Description	Part No
11	Front Panel, Left	R01014070597
12	Service Panel	R01014070598
13	Terminal Cover Panel	R01014070838
14	Assy. Control Panel	R50014072877
15	Top Panel	R01014070596
16	Assy. Front Grille	R50124072880
17	Plastic Handle	R12014057948
18	Assy. Valve Cover	R50124072885
19	Assy. Cap Tube ALC 18CR ALC 20CR A5LC 20CR	R50024089931 R50024087058 R50024081904
20	Assy. 4 Way Valve ALC 18/20CR A5LC 20CR	R50054077222 R50059024520
21	Partition	R01014070603
Parts Not in Diagram		
	Capacitor, Fan Motor	R04029026759
	Capacitor, Compressor ALC 18/20CR A5LC 20CR	R04029026782 R04029026779

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MODEL : ALC / A5LC 25 / 28CR

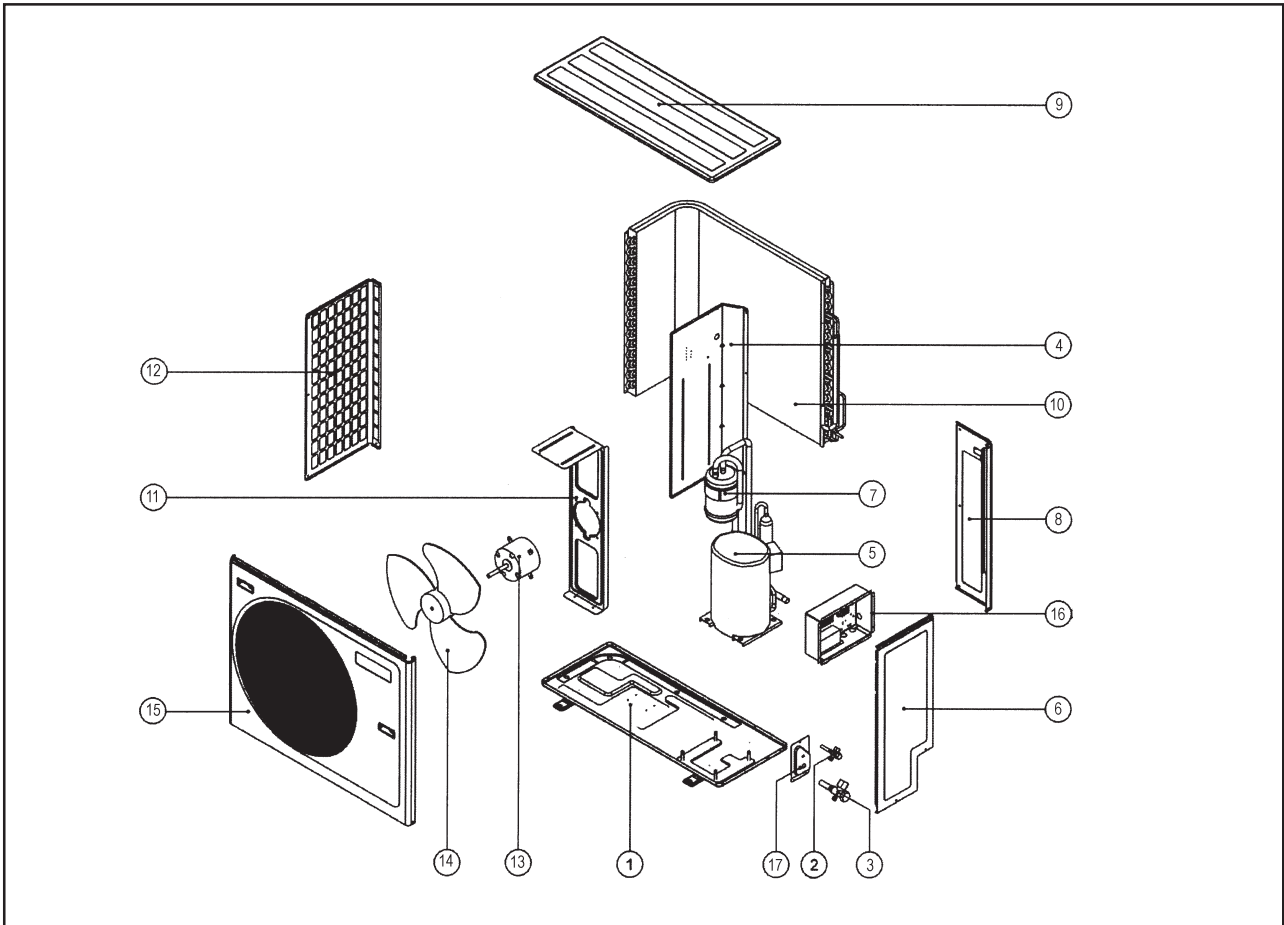


No	Description	Part No
1	Assy. Base Pan	R50014073884
2	Assy. Outdoor Coil	
	ALC 25CR	R50024088731
	A5LC 25/28CR	R50024075147
	ALC 28CR	A50024082133
3	Motor Bracket	R01014070948
4	Fan Motor	
	ALC 25CR	R03039028207
	A5LC 25CR	R03039023391
	ALC / A5LC 28CR	R03039024538
5	Fan Blade	R03019023393
6	Valve Bracket	
	ALC 25/28CR	A50014073890
	A5LC 25CR	R50014078321
	A5LC 28CR	R50014080371
7	Assy. Flare Valve 3 Ways 5/8"	
	ALC 25/28CR	R50054072863
	A5LC 25/28CR	R50059023336
8	ALC 25/28CR	
	Assy. Flare Valve 3 Ways 3/8"	R50059022577
	A5LC 25CR	R50059023334
	Assy. Flare Valve 2 Ways 1/4"	R50059023334
	A5LC 28CR	R50059024820
	Assy. Flare Valve 3 Ways 3/8"	R50059024820
9	Back Panel, Right	R01014070950
10	Compressor	
	ALC 25CR	A04019027570
	A5LC 25CR	R04019021361
	ALC 28CR	R04019012828
	A5LC 28CR	R04019020449

No	Description	Part No
11	Front Panel, Left	R01014070947
12	Service Panel	R01014070949
13	Terminal Cover Panel	R01014070838
14	Assy. Control Panel	
	ALC / A5LC 25CR	R50044086136
	ALC 28CR	R50044086139
	A5LC 28CR	R50044086140
15	Top Panel	R01014070596
16	Assy. Front Grille	R50124072880
17	Plastic Handle, Side	R12014057948
18	Assy. Valve Cover	R50124073905
19	Assy. Cap Tube	
	ALC 25CR	R50024088789
	A5LC 25CR	R50024081899
	ALC 28CR	A50024080186
	A5LC 28CR	R50024080312
20	Assy. 4 Way Valve	
	ALC 25/28CR	R50054077222
	A5LC 25/28CR	R50059024520
21	Partition	R01014070951
22	Plastic Handle, Front	R12014070955
Parts Not in Diagram		
	Capacitor, Fan Motor	
	ALC / A5LC 25CR	R04029026759
	ALC / A5LC 28CR	R04029026966
	Capacitor, Compressor	
	ALC /A5LC 25CR, ALC 28CR	R04029026779
	A5LC 28CR	R04029026778

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MODEL : ALC 30 / 40C/CR

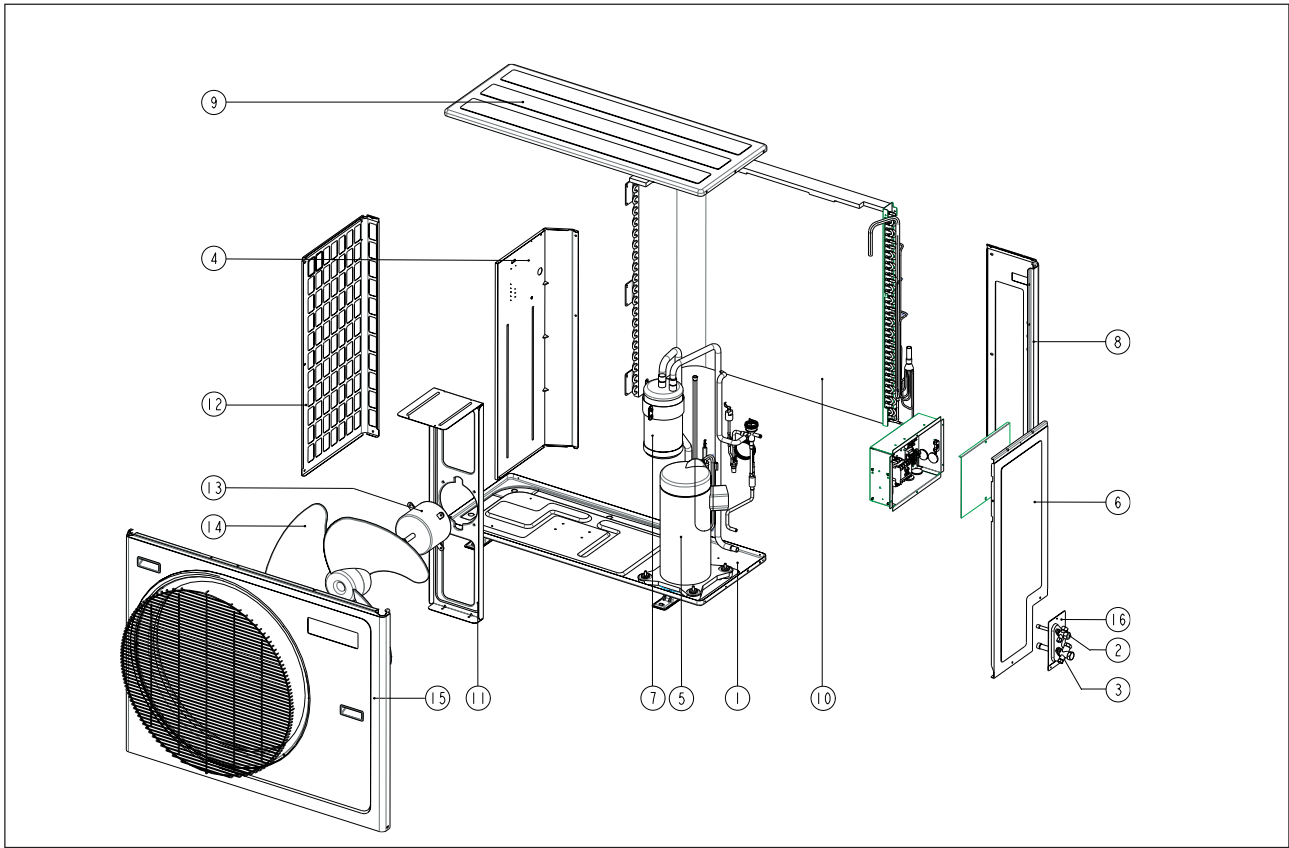


No	Description	Part No
1	Assy. Base Pan	R50014053238
2	Assy. Flare Valve 3/8" ALC 30/40C/CR	R50059000221
3	Assy. Flare Valve 5/8" ALC 30C/CR Assy. Flare Valve 3/4" ALC 40C/CR	R50059000071 R50059003794
4	Panel, Partition	R50014053277
5	Compressor ALC 30C/CR 220-240V/1PH/50Hz 380-415V/3PH/50Hz ALC 40C/CR 220-240V/1PH/50Hz 380-415V/3PH/50Hz	R50049013221 R50049019889 R50049018853 R50049013222
6	Service Panel	R01010029898
7	Accumulator ALC 30C/CR ALC 40C/CR	R02119025988 R02119002010
8	Back Panel, Right	R01014053233
9	Top Panel	R01011029900
10	Assy. Coil ALC 30C ALC 30CR ALC 40C ALC 40CR	A50024041851 A50024035282 A50024041850 A50024035281

No	Description	Part No
11	Bracket, Fan Motor	R01014053232
12	Side Panel, Left	R01010029899
13	Fan Motor	R03039004046
14	Fan Blade	R03013028160
15	Assy. Front Panel	R50014053236
16	Plate, Flare Valve	R01013034235
Parts Not in Diagram		
	Phase Sequencer	R04089017029
	High Pressure Switch	R04109015136
	Low Pressure Switch	R04109015125
	Assy. 4 Way Valve ALC 30CR ALC 40CR	R05029001991 R05019000863
	Capacitor, Fan Motor	R04029026761
	Capacitor, Compressor ALC 30C/CR ALC 40C/CR	R04029026779 R04029026782
	TXV	R05019020252
	Contactora	R04039018866

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MODEL : A5LC 35 / 40C/CR



No	Description	Part No
1	Assy. Base Pan	R50014053238
2	Assy. Flare Valve 3/8"	R50059017536
3	Assy. Flare Valve 5/8"	R50059020805
4	Panel, Partition	R50014053277
5	Compressor A5LC 35C/CR 220-240V/1PH/50Hz 380-415V/3PH/50Hz A5LC 40C/CR 220-240V/1PH/50Hz 380-415V/3PH/50Hz	R50049025547 R50049025336 R50049028527 R50049025380
6	Service Panel	R01010029898
7	Accumulator	R02119024262
8	Back Panel, Right	R01014053233
9	Top Panel	R01011029900
10	Assy. Coil A5LC 35C/CR A5LC 40C/CR	R50024082878 R50024076551

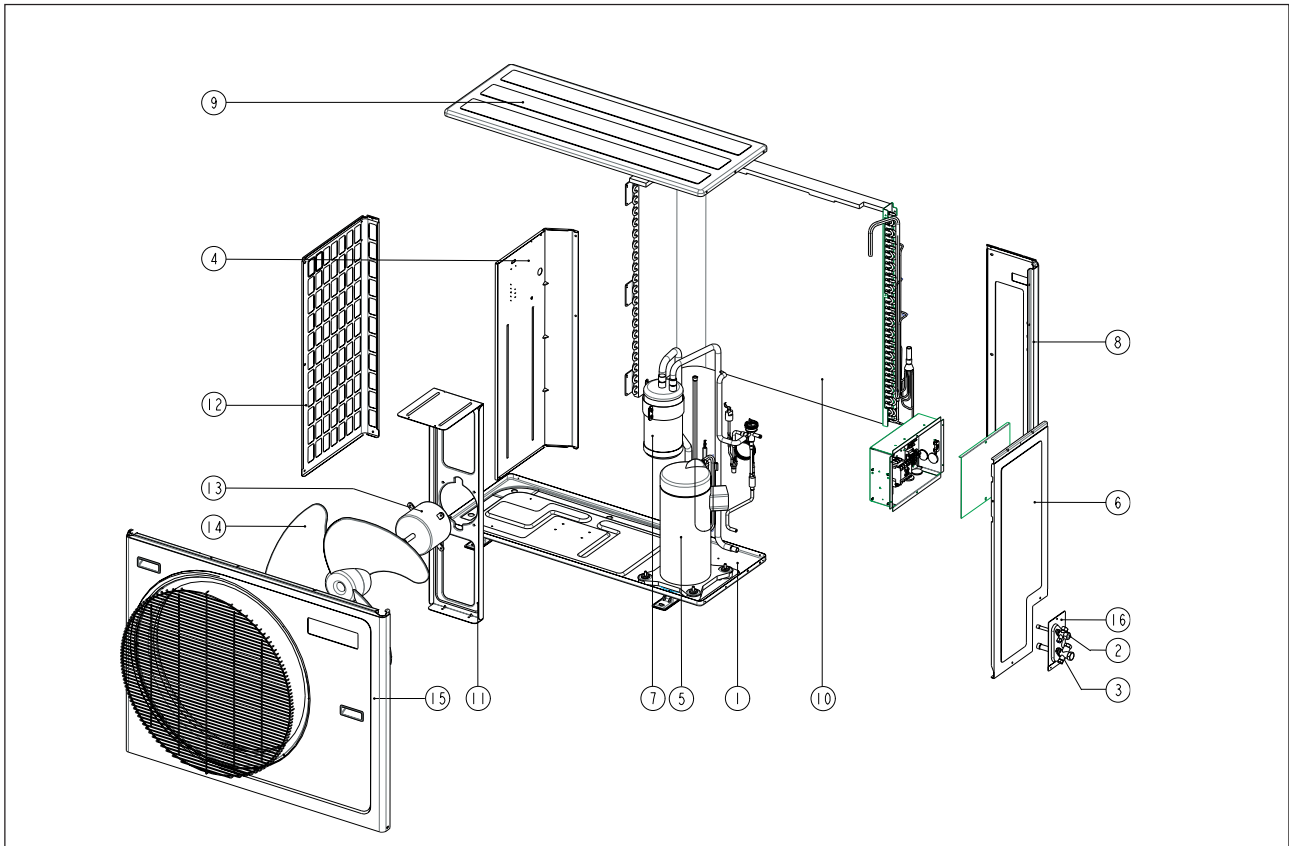
No	Description	Part No
11	Bracket, Fan Motor	R01014053232
12	Side Panel, Left	R01010029899
13	Fan Motor	R03039004046
14	Fan Blade	R03013028160
15	Assy. Front Panel	R50014053236
16	Plate, Flare Valve	R01013034235

Parts Not in Diagram

	Phase Sequencer	R04089017029
	High Pressure Switch	R04104061879
	Low Pressure Switch	R04109015400
	Assy. 4 Way Valve	R05019019861
	Capacitor, Fan Motor	R04029026761
	Capacitor, Compressor A5LC 35C/CR A5LC 40C/CR	R04029026782 R04029026777
	TXV	R05019020252
	Contactora	R04039018866

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MODEL : ALC 50C/CR

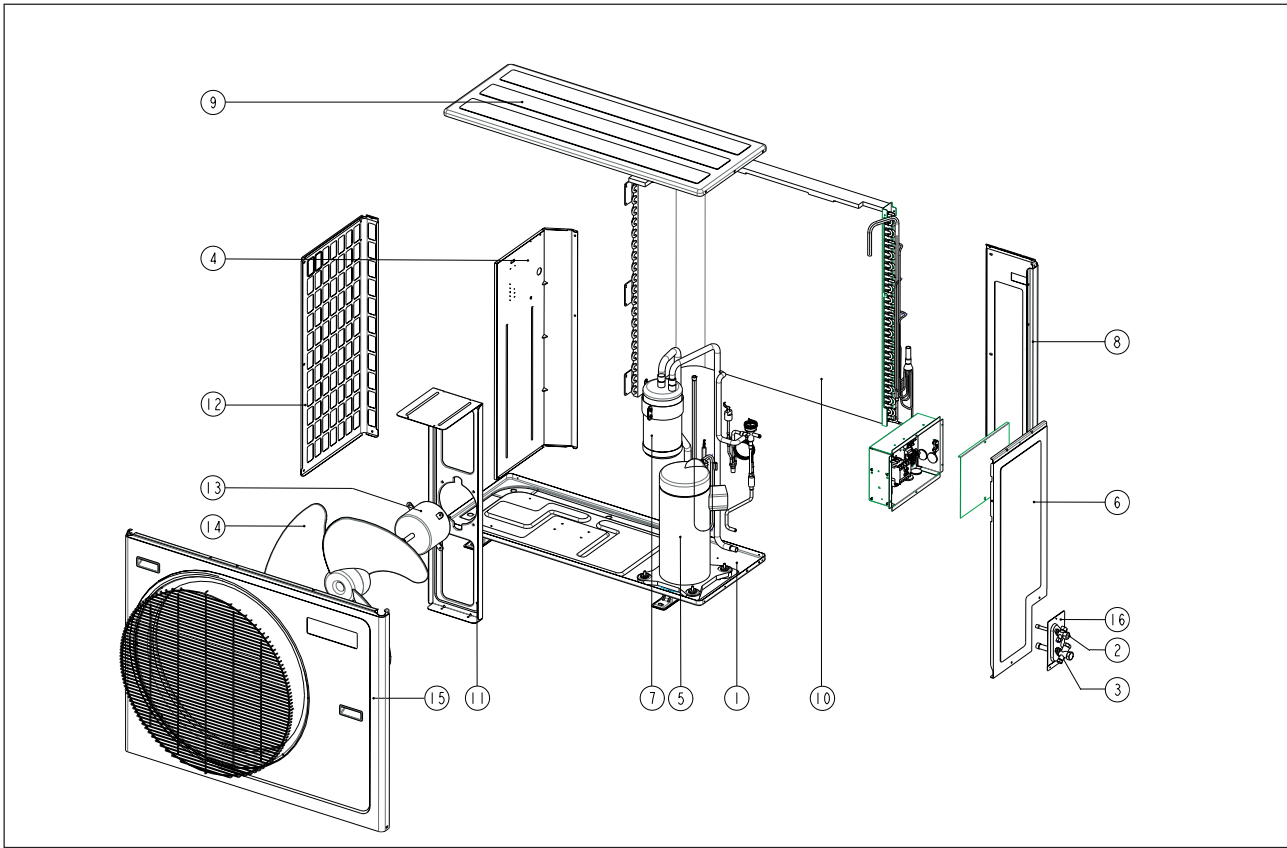


No	Description	Part No
1	Assy. Base Pan	R50014053238
2	Assy. Flare Valve 3/8"	R50059000221
3	Assy. Flare Valve 3/4"	R50059003794
4	Panel, Partition	R50014053277
5	Compressor	R50049013223
6	Service Panel	R01010029898
7	Accumulator	R02119002010
8	Back Panel, Right	R01014053233
9	Top Panel	R01011029900
10	Assy. Coil ALC 50C ALC 50CR	A50024041849 A50024035281
11	Bracket, Fan Motor	R01014053232

No	Description	Part No
12	Side Panel, Left	R01010029899
13	Fan Motor	R03039004046
14	Fan Blade	R03013028160
15	Assy. Front Panel	R50014053236
16	Plate, Flare Valve	R01013029901
Parts Not in Diagram		
	Phase Sequencer	R04089017029
	High Pressure Switch	R04109015136
	Low Pressure Switch	R04109015125
	Assy. 4 Way Valve	R05019000863
	Capacitor, Fan Motor	R04029026761
	TXV	R05019002020
	Contactora	R04039018866

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MODEL : A5LC 50C/CR



No	Description	Part No
1	Assy. Base Pan	R50014053238
2	Assy. Flare Valve 3/8"	R50059017536
3	Assy. Flare Valve 5/8"	R50059020805
4	Panel, Partition	R50014053277
5	Compressor	R50049022878
6	Service Panel	R01010029898
7	Accumulator	R02119024262
8	Back Panel, Right	R01014053233
9	Top Panel	R01011029900
10	Assy. Coil	R50024084456
11	Bracket, Fan Motor	R01014053232
12	Side Panel, Left	R01010029899

No	Description	Part No
13	Fan Motor	R03039004046
14	Fan Blade	R03013028160
15	Assy. Front Panel	R50014053236
16	Plate, Flare Valve	R01013034235

Parts Not in Diagram

	Phase Sequencer	R04089017029
	High Pressure Switch	R04104061879
	Low Pressure Switch	R04109015400
	Assy. 4 Way Valve	R05019019861
	Capacitor, Fan Motor	R04029026761
	TXV	R05019020252
	Contactora	R04039018866

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