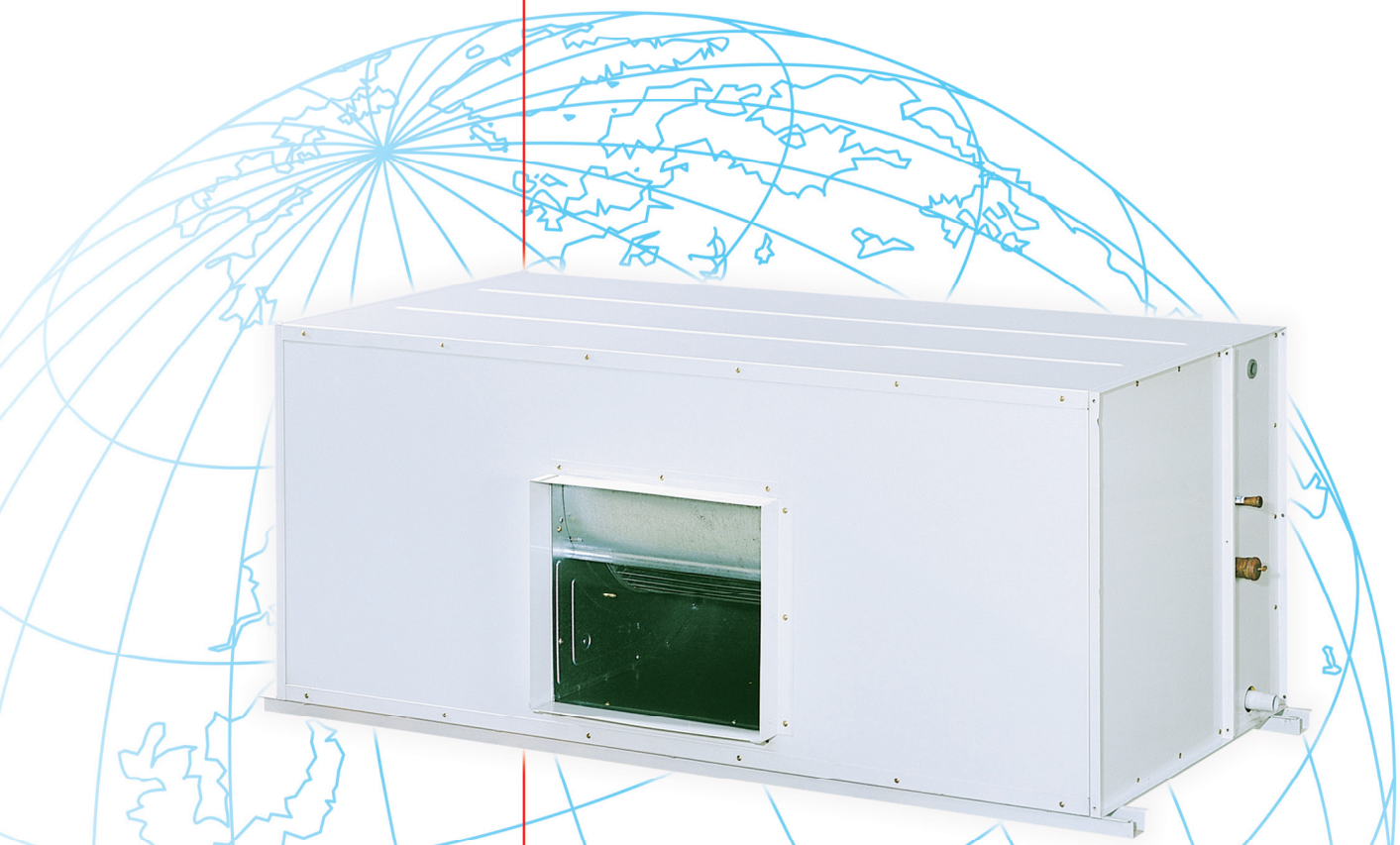
Models:

ADB 75-500 BR
ADSB 200-500 BR
ADB 125 CR

ACSON International



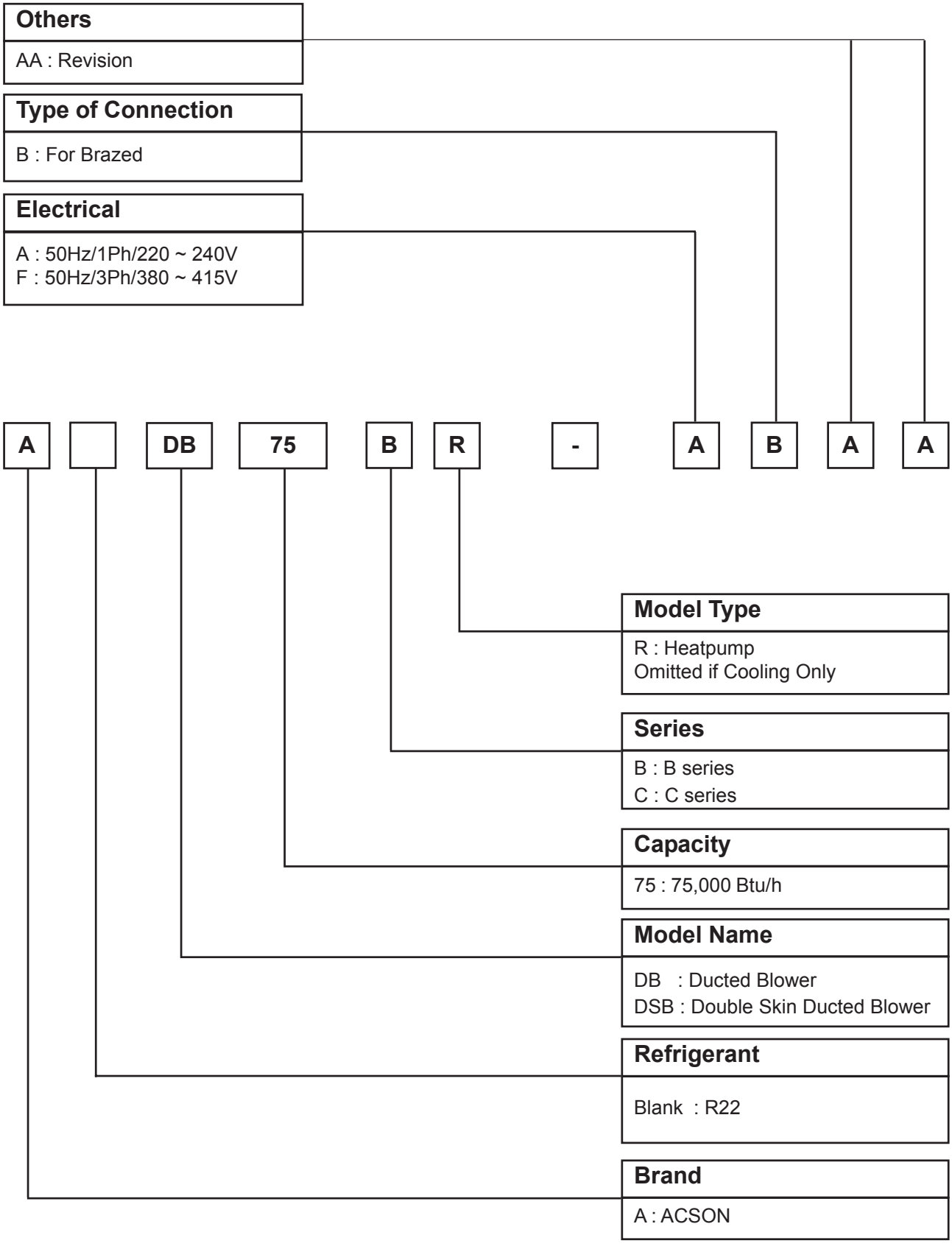
Ducted Blower Split Systems

ADB - R - 2008

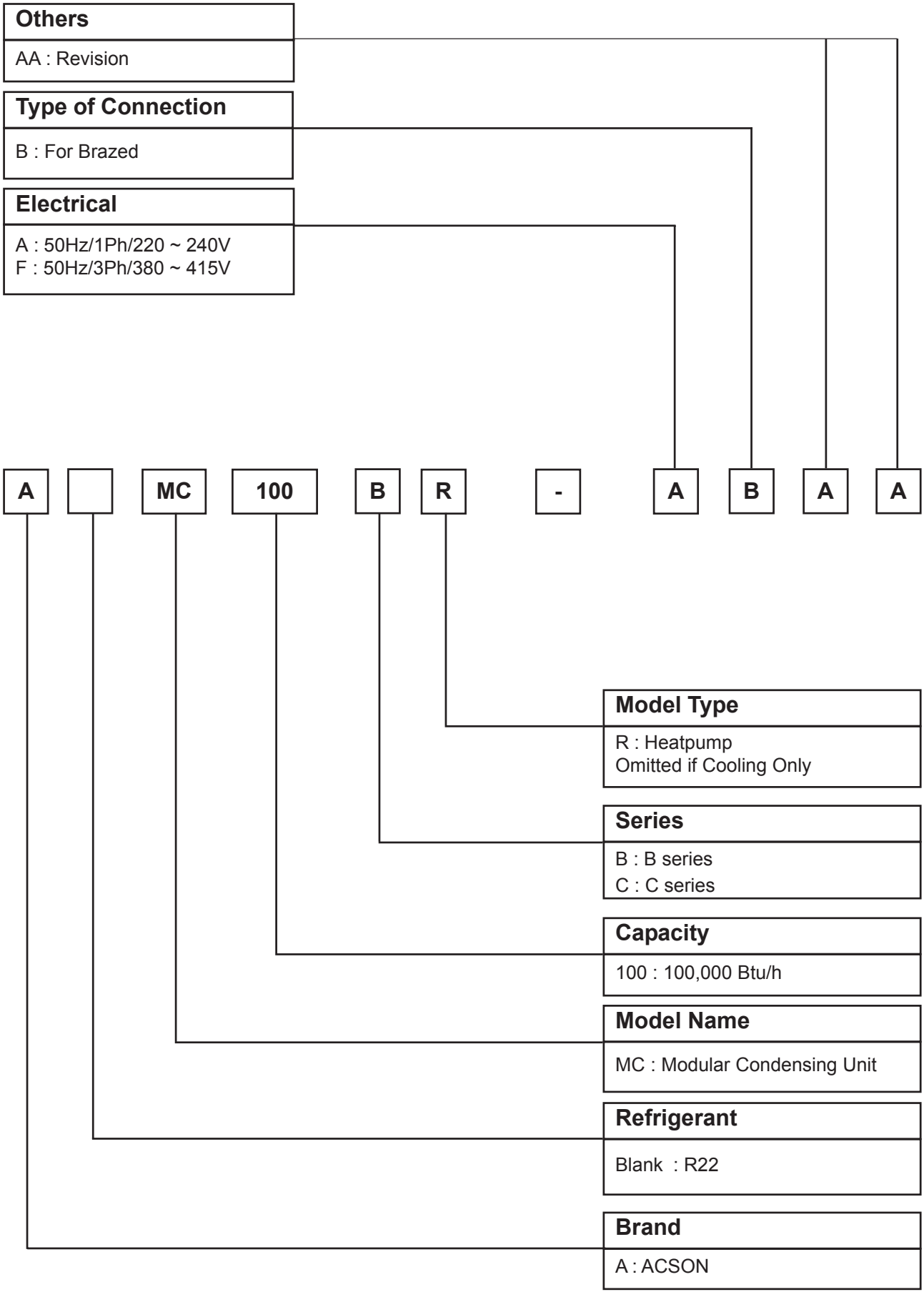
TABLE OF CONTENTS

1. NOMENCLATURE

Indoor



Outdoor


Others
AA : Revision
Type of Connection
B : For Brazed
Electrical
A : 50Hz/1Ph/220 ~ 240V
F : 50Hz/3Ph/380 ~ 415V
A
MC
100
B
R
-
A
B
A
A
Model Type
R : Heatpump
Omitted if Cooling Only
Series
B : B series
C : C series
Capacity
100 : 100,000 Btu/h
Model Name
MC : Modular Condensing Unit
Refrigerant
Blank : R22
Brand
A : ACSON

Product Line Up

ADB		Nomenclature	Classification																	
			Controller					Handset		Marking			Refrigerant Control			Filter	Air Discharge			Others
			W/out Control	With Contactor	L208A	U1_SB125	Sequential	SLM3	LCD Sequential Controller	Local (w/out DOL)	CE Mark	Without Marking	TXV	Capillary Tube	Without Expansion Device	With air filter	Horizontal & Changeable	Horizontal & Not Changeable	Vertical & Changeable	Rivet "Made In Malaysia"
Heat Pump Model	75BR	ABEF			X			X			X				X	X		X		
	100BR	ABEE			X			X			X				X	X		X		
	125CR	FBED		X		X		X			X				X	X		X		
	150BR2	FBED		X			X		X		X				X	X	X			
	200BR2	FBED		X			X		X		X				X	X	X			
	250BR2	FBEA		X			X		X			X			X	X			X	
	300BR3	FBEB		X			X		X			X			X	X			X	
	350BR3	FBEB		X			X		X			X			X	X			X	
	400BR4	FBEB		X			X		X			X			X	X			X	
	500BR4	FBEB		X			X		X			X			X	X			X	

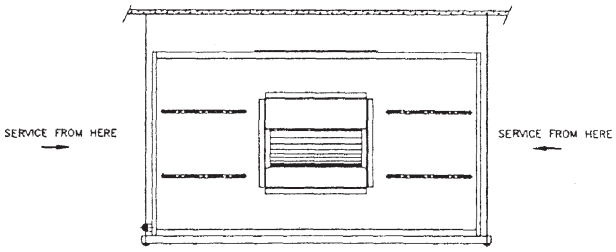
ADSB		Nomenclature	Classification															
			Controller				Handset	Marking		Refrigerant Control			Filter		Air Discharge			
			W/out Control	With Contactor	W/out Contactor	Sequential Controller	LCD Wired Handset	CE Mark	Without Marking	TXV	Capillary Tube	Without Expansion Device	With air filter	W/out Air Filter	Horizontal & Changeable	Horizontal & Not Changeable	Vertical as Standard	Vertical & Changeable
Heat Pump Model	200BR2	FBAA				X	X		X			X	X		X			
	250BR2	FBAA				X	X		X			X	X					X
	300BR3	FBAA				X	X		X			X	X					X
	350BR3	FBAA				X	X		X			X	X					X
	400BR4	FBAA				X	X		X			X	X					X
	500BR4	FBAA				X	X		X			X	X					X

AMC		Nomenclature	Classification																				
			Controller					Marking			Compressor					Refrigerant Control			Others				
			With Togami Contactor	With Chint Contactor	Without Contactor	With Auto HP/LP	With Manual HP/LP	CE Mark	ETL	Without Marking	Scroll-Copeland	Scroll Maneurop	Reciprocating-Maneurop	Reciprocating Bristol	Reciproacating-Copeland	TXV	Capillary Tube	Without Expansion Device	Centrifugal Fan	Rivet "Made In Malaysia"	With Accumulator	Phase Sequencer	Gold Fin (NA549)
Heat Pump Model	75CR	FBED	X			X		X			X					X							
		FBEJ	X			X		X			X					X							X
	100BR	FBEC	X			X		X			X					X							
		FBEJ	X			X		X			X					X							X
	125BR	FBEC	X			X		X			X					X							
		FBEJ	X			X		X			X					X							X

2. FEATURES

Easy Maintenance

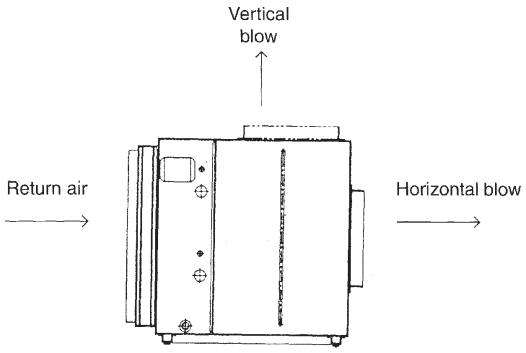
The simple design concept has maintenance and servicing in mind. Access to the internal part of the unit can be from either side of the unit by loosening a few screws.



Only for model ADB 75BR and 100BR
with additional servicing panel from bottom

Flexibility In Installation

ADB75BR - ADB200BR models come with standard horizontal air discharge whereas ADB250BR - ADB500BR models come with standard vertical air discharge. However, the range from ADB150BR - ADB500BR are designed to cater for either horizontal or vertical air discharge application.



Versatility

Multiple rooms can be cooled together at the same time by using just one unit of fan coil unit.

Fresh Air For Healthy Living

Fresh air can be introduced into the building through the design of fresh air intakes. This will help to improve the indoor air quality.

Superior Air Distribution For Comfortable Living

The conditioned air can be effectively distributed to every corner of the room through the ducting and this ensure a more pleasant environment for comfort living.

Flexibility Of Air Supply

ACSON ADB series using belt driven fan such as that the air volume and static required can be adjusted according to the requirement. This flexibility allow for wider application.

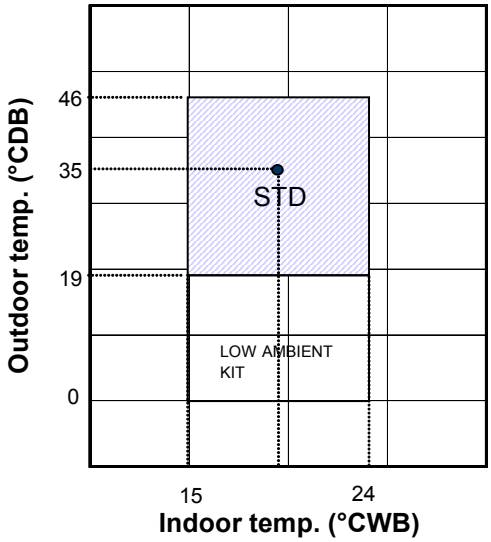
3. APPLICATION INFORMATION

Operating Range

Ensure the operating temperature is in allowable range.

Cooling only

Cooling

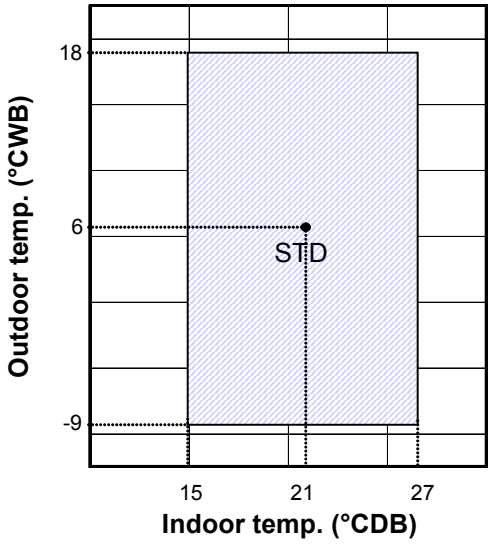


Caution :

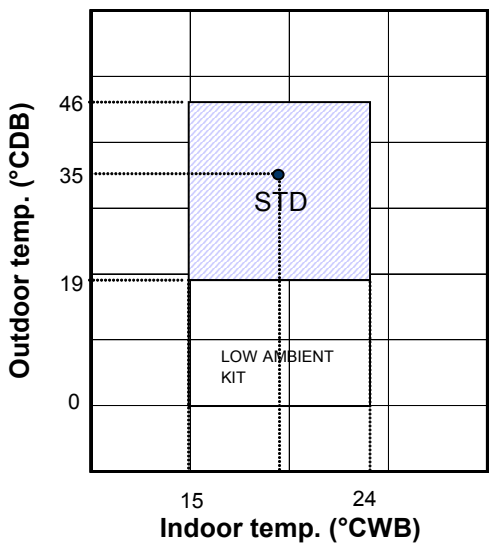
The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

Heatpump

Heating

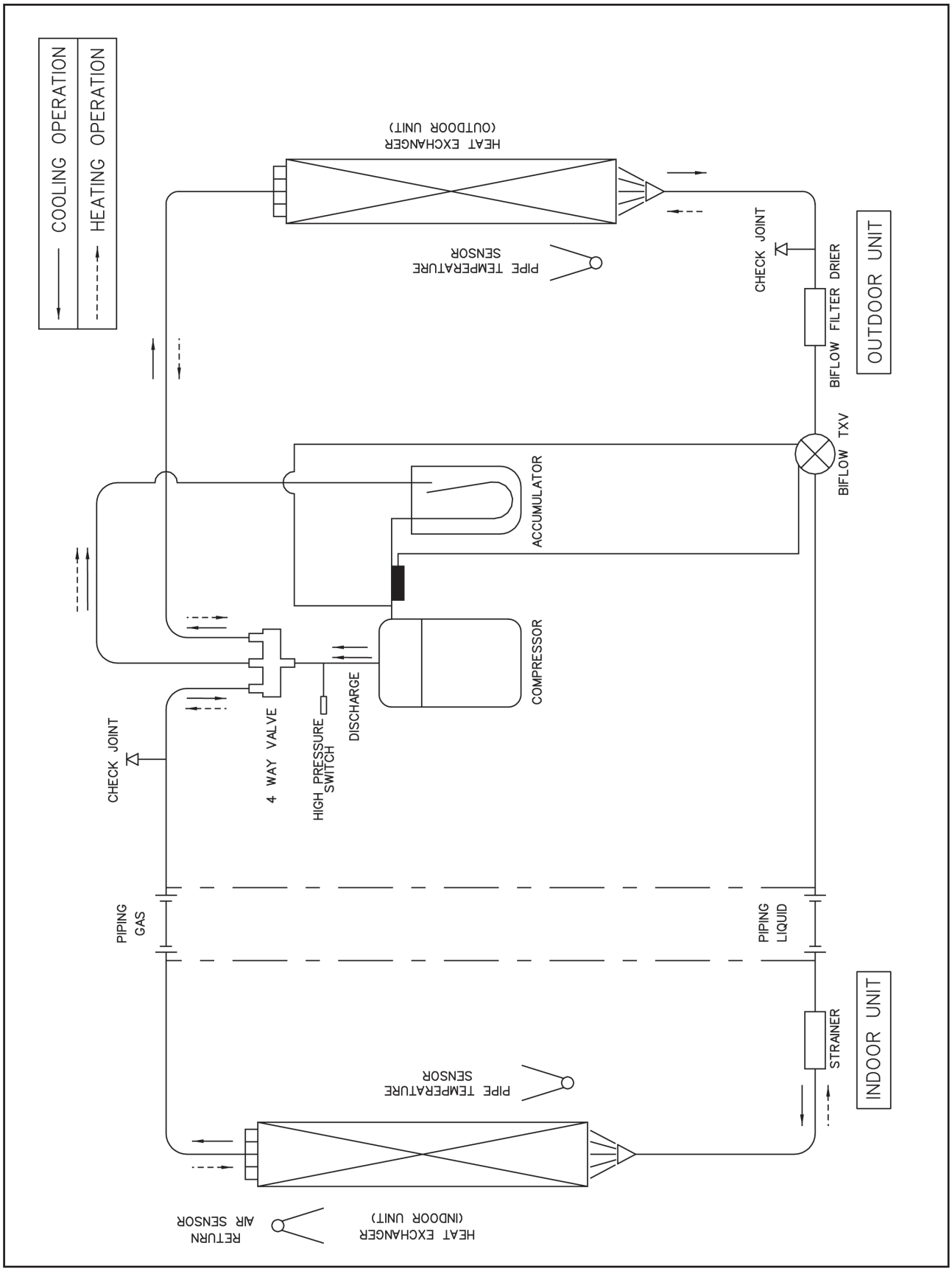


Cooling

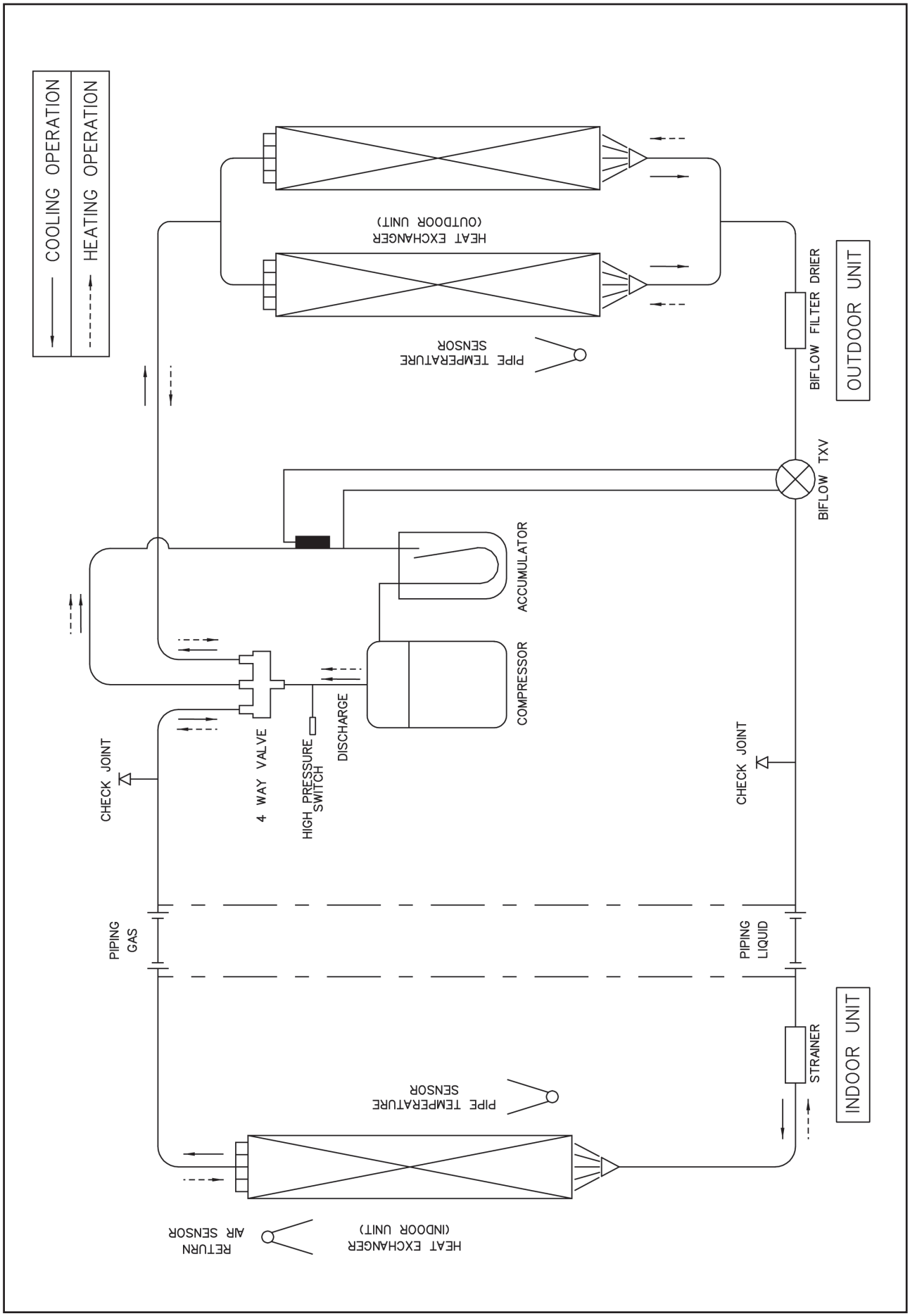


Refrigerant Circuit Diagrams

MODEL : AMC75CR



MODEL : AMC100/125BR



Controllers

Electrical Connection
Wiring regulations about wire diameter differs from country to country. Please refer to your LOCAL ELECTRICAL CODES for field wiring rules. Be sure that installation comply with such rules and regulations.

General Precaution
Ensure that the rated voltage of the unit correspond to the name plate before carrying out proper wiring according to the wiring diagram.

Provide a power outlet to be used exclusively for each unit. A power supply disconnect and a circuit breaker for overcurrent protection should be provided in the exclusive line.

The unit must be GROUNDED to prevent possible hazard due to insulation failures

Every wiring must be firmly connected.

Every wiring should not touch the refrigerant piping, compressor and any moving parts of fan motor.

Operational Check
After all wiring is completed and the system is charged with refrigerant, make sure the unit is operating properly. Check that :

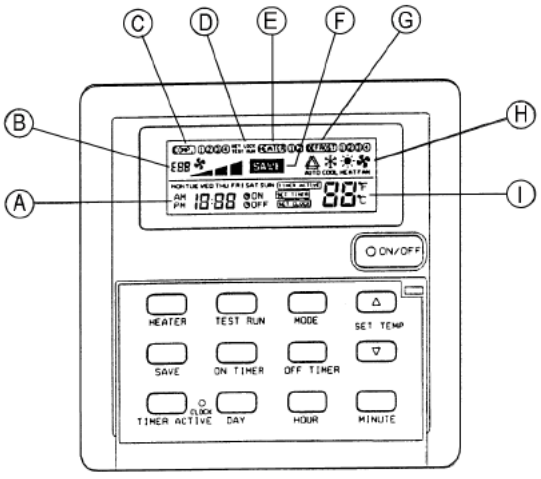
Condenser fans are running with warm air blowing off the condensing unit.

Evaporator blowers are running and discharging cool air from ducts.

Suction line and liquid line pressures are in the region of 75 psig and 275 psig respectively.

Sequential Controller Lcd Operating Instructions
(Standard for cooling and heatpump units)

1. Sequential controller LCD display



A : Time display
B : Error indication
C : Compressor running display (up to 4 compressors)
D : Key lock display
E : Heater display (up to 2 heaters)
F : Energy saving mode display
G : Compressor defrost cycle display (up to 4 compressors)
H : Operation mode display
I : Temperature set display

2. Operating Guide

2.1 **ON/OFF** key
Press once to start the air conditioning unit.
Press again to stop the unit.
The operation lamp next to the key lights up and goes off respectively when the unit is running or not running.
Caution : In the case when the **ON/OFF** key is pressed immediately after the operation is stopped, the unit will not restart until 3 minutes later to protect the compressor.

2.2 Selecting Operation Mode

Press the **MODE** key to select the type of operating mode. Consecutive press of the key switches the operation over *"COOL", "HEAT", "AUTO" and "FAN"*

2.3 SAVE Mode

Press the **SAVE** key to select the energy saving function. This option is only available for "COOL", "HEAT" and "AUTO" modes.

2.4 Auxiliary Electric Heater

If the "HEAT" mode provides insufficient heating to a room even at the highest temperature setting (30°C), press the **HEATER** key to activate the auxiliary electric heater. For models with two heaters, consecutive press of the key allows the selection of one or both heaters active.

2.5 Temperature Setting

To set the desired room temperature, press (▲) or (▼) to increase or decrease the set temperature in the range of 16°C to 30°C.

Press both (▲) and (▼) simultaneously to toggle between °C and °F setting.

2.6 Time Setting

Real time Clock

Press the **CLOCK** key once to activate set clock mode.

Press again to disable set clock mode.

Under set clock mode, the time of the present day can be set by pressing the respective **MINUTE, HOUR** and **DAY** key.

7days timer

Press the **ON TIMER** key to activate autoON timer mode. Under this mode, press the respective **MINUTE, HOUR** and **DAY** key to select the time of the week when the air-conditioning unit is to automatically start running. Press the **ON TIMER** key again to save the setting.

Press the **OFF TIMER** key to activate autoOFF timer mode. Under this mode, press the respective **MINUTE, HOUR** and **DAY** key to select the time of the week when the air-conditioning unit is to automatically stop running. Press the **ON TIMER** key again to save the setting.

Then to activate the 7days timer, press and hold the **TIMER ACTIVE** key until the word "TIMER ACTIVE" appears on the LCD screen. Repeat the same step to disable the 7days timer.

2.7 Other Function

Key Lock

Press the **MINUTE** key 3 times consecutively to activate the key lock. A *"KEY LOCK" symbol* will appear on the LCD screen. At this point, only the **ON/OFF** key is valid.

To disable the key lock, again press the **MINUTE** key 3 times consecutively.

Test run

Press the TEST key 2 times consecutively to test run the unit.

3. Error Code

When the system is on and an error occurs, the **ON/OFF** LED on the LCD panel will blink and an error code is shown. When the system is off and there is a thermistor error, the **ON/OFF** LED is off but the error code is still displayed. Each error code represents different message as below

Error code	Possible fault	Error code	Possible fault
E01	Require manual reset (possible causes)	E19	Indoor coil sensor 4 short
E02	Compressor 1 high temperature (overload)	E20	Indoor coil sensor 1 open
E03	Compressor 2 high temperature(overload)	E21	Indoor coil sensor 2 open
E04	Compressor 3 high temperature(overload)	E22	Indoor coil sensor 3 open
E05	Compressor 4 high temperature(overload)	E23	Indoor coil sensor 4 open
E06	Compressor 1 high pressure trip / contact open	E24	Outdoor coil sensor 1 short
E07	Compressor 2 high pressure trip / contact open	E25	Outdoor coil sensor 2 short
E08	Compressor 3 high pressure trip / contact open	E26	Outdoor coil sensor 3 short
E09	Compressor 4 high pressure trip / contact open	E27	Outdoor coil sensor 4 short
E10	Compressor 1 trip / low R-22 / outdoor abnormal	E28	Outdoor coil sensor 1 open
E11	Compressor 2 trip / low R-22 / outdoor abnormal	E29	Outdoor coil sensor 2 open
E12	Compressor 3 trip / low R-22 / outdoor abnormal	E30	Outdoor coil sensor 3 open
E13	Compressor 4 trip / low R-22 / outdoor abnormal	E31	Outdoor coil sensor 4 open
E14	Room sensor short	E32	Compressor 1 de-ice
E15	Room sensor open	E33	Compressor 2 de-ice
E16	Indoor coil sensor 1 short	E34	Compressor 3 de-ice
E17	Indoor coil sensor 2 short	E35	Compressor 4 de-ice
E18	Indoor coil sensor 3 short		

4. Installation Of Lcd Remote Controller

4.1 Accessories

The following accessories are included. If any part is missing, contact your dealer immediately.

① Remote controller

② Wooden screw 4.1 x 16 (2 pieces)

③ Instruction manual

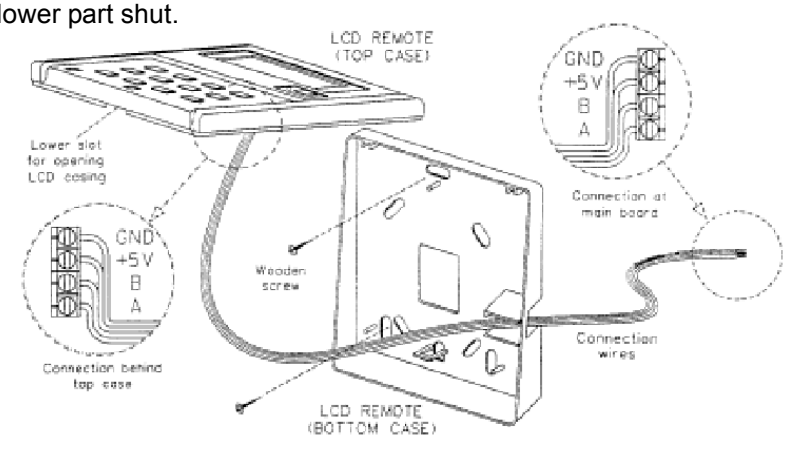
4.2 Stepbystep guide

i) First, open up the casing of the LCD remote controller **into its top and bottom** case using a screwdriver. To do this, insert the screwdriver into the lower slot and slide it in the outward direction.

ii) Fix the bottom case onto the wall with the 2 wooden screws provided. Then, insert the 4 connecting wires (from the main board) through the slot on the lower right.

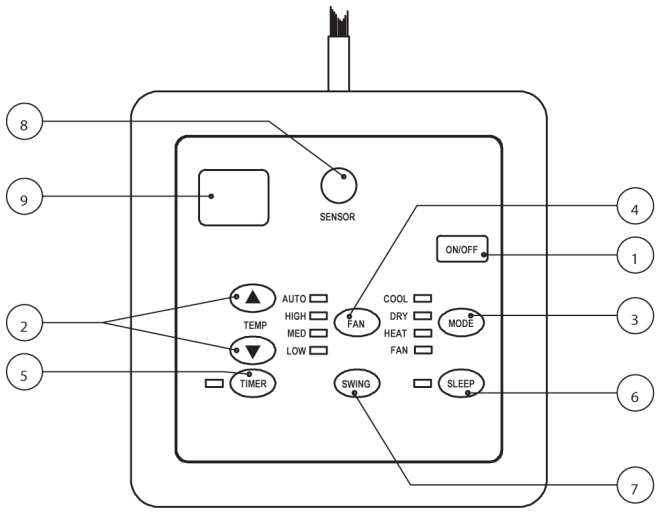
iii) Connect one end in each of the 4 wires to the terminal block behind the top case as shown below. The wire that goes into the “GND” terminal at the top case must be connected at the other end to the “GND” terminal at the main board. The same goes for the “+5V”, “B” and “A” connection.

iv) Fasten back the top and bottom case into place. Hook the two upper claws into their respective slots and snap the lower part shut.

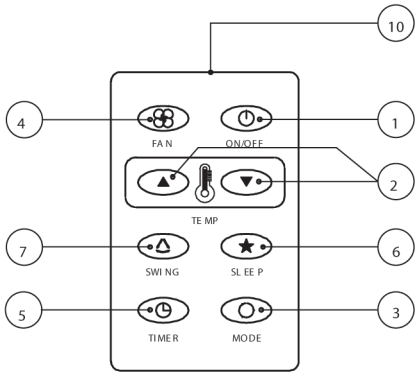


5. Auto Random Restart

When power resumed, the unit will automatically restart and operate at the previous setting as before power failure occurred. (Remove jumper at JH/JP1 will cancel the auto random restart function. Please refer to wiring diagram for the location of the JH/JP1).



SLM



AC-5300 (OPTIONAL)

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 bothCOOL 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. When it is 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 actiaved under "HEAT" mode operation, the set temperature will be descreased 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.

Installation

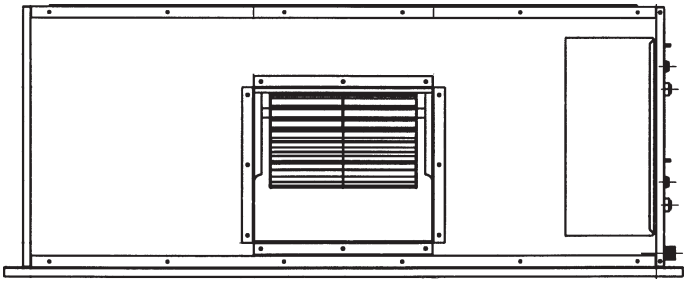
Indoor

Preliminary Site Survey

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

Mounting

a) For ceiling mounted models, locate a position where piping and ducting work can be kept to a minimum. Ensure that overhead supports are strong enough to hold the unit's weight. Position hanger rods and check for alignment with the unit. Check that hangers are secure and that the base of fan-coil unit is level in two horizontal directions.



DRAINAGE PIPE SIDE

Pipings

Do not use contaminated or damaged copper tubings. If pipings, evaporator or condenser are exposed or had been opened for 15 seconds or more, vacuum and purge with field supplied refrigerant. Generally, do not remove plastic/rubber plugs/caps from fittings, tubings and coils until ready to connect suction or liquid line into fittings.

Operational Check

After all electrical wiring is completed and the system is charged with refrigerant, make sure unit is operating properly. Check that:

a) Condenser fans are running, with warm air blowing off the condenser coil.
b) Evaporator blowers are running and discharging cool air.
c) Suction line inside condensing unit feels cool.
d) Liquid line inside condensing unit feels warm.

Electrical Connection

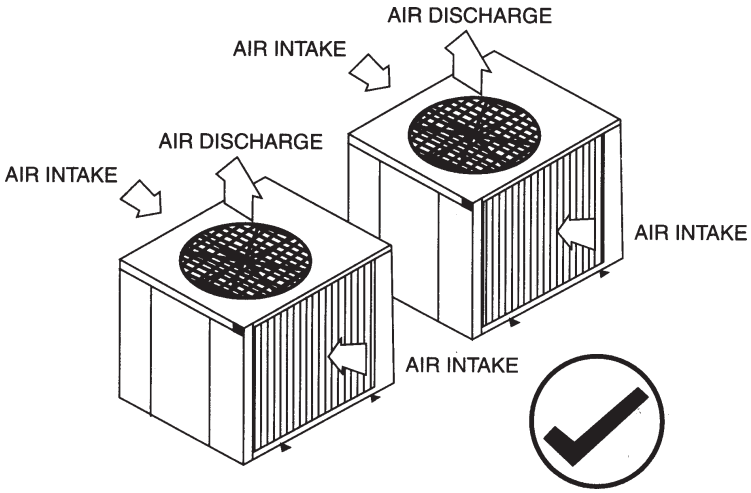
As wiring regulations differ from country to country, please refer to your LOCAL ELECTRICAL CODES for field wiring regulations and ensure that these are complied with. Besides, observe the following general precautions:

a) Ensure that the rated voltage of the unit corresponds to that of the name plate before commencing wiring work.
b) Provide a power outlet to be used exclusively for each unit. A power supply disconnect and a circuit breaker for over-current protection should be provided in the exclusive line.
c) The unit must be GROUNDED to prevent possible hazard due to insulation failure.
d) All wiring must be firmly connected.
e) Electrical wiring must not touch the refrigerant piping, compressor and any moving parts of the fan motors.

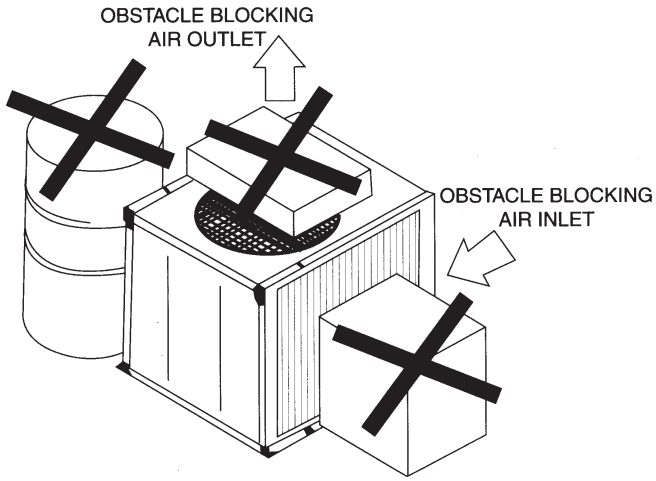
Outdoor

Location For Installation Of The Condensing Units
As condensing temperature rises, evaporating temperature rises and cooling capacity drops. In order to achieve maximum cooling capacity, the location selected should fulfill the following requirements:-

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



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



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

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

Field Piping

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

a) Liquid loops or oil traps must be provided according to the position of the outdoor and the indoor units (depending on whether the indoor unit is above or below the outdoor unit).
b) Field supplied filter dryer should be provided as close to the expansion valve(s) of the indoor unit (evaporator) as possible.
c) Field supplied sight glass must be assembled and mounted next to filter dryer.

Maximum Pipe Length And Maximum Number Of Bends

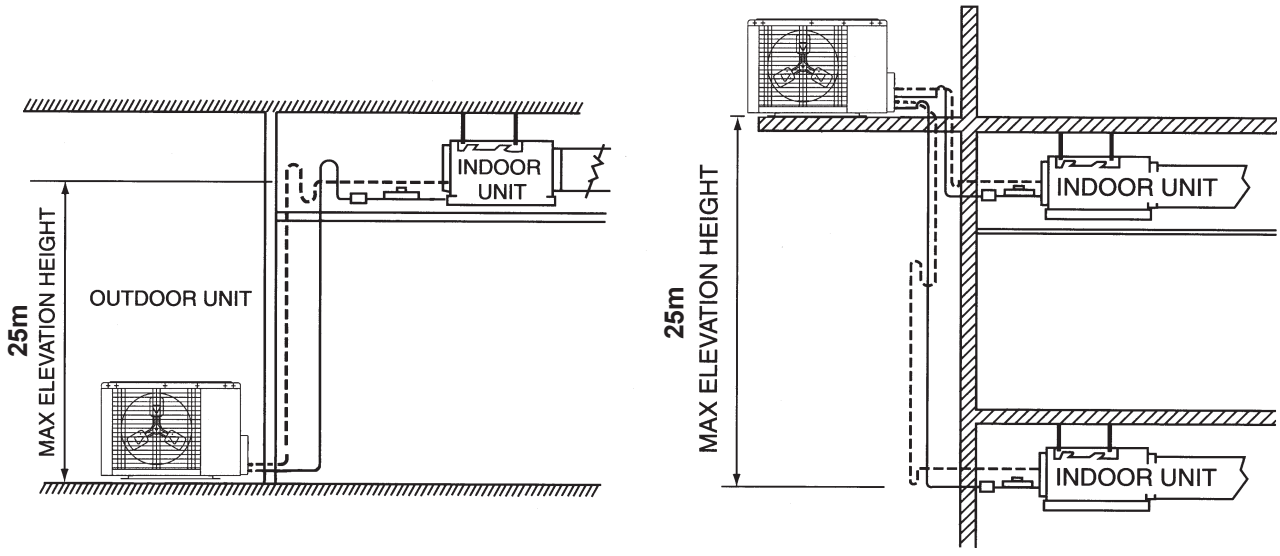
When the pipe is too long, the required refrigerant quantity increases. Both the capacity and reliability drops as a result. As the number of bends increases, system piping resistance to the refrigerant flow increases, thus lowering the cooling capacity and the compressor may become defective. If the height difference between the evaporator and the condenser is excessive, the cooling capacity drops, the lubricating oil return is retarded, affecting the compressor efficiency adversely.

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

Model	Max. elevation,	Max. Total Length, m (ft)	Max. of Bends m(ft)
AMC 75CR	25 (82.0)	45 (147.6)	8
AMC 100/125BR	25 (82.0)	45 (147.6)	8

CAUTION:

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



Maximum Allowable Piping Length & Elevation Difference

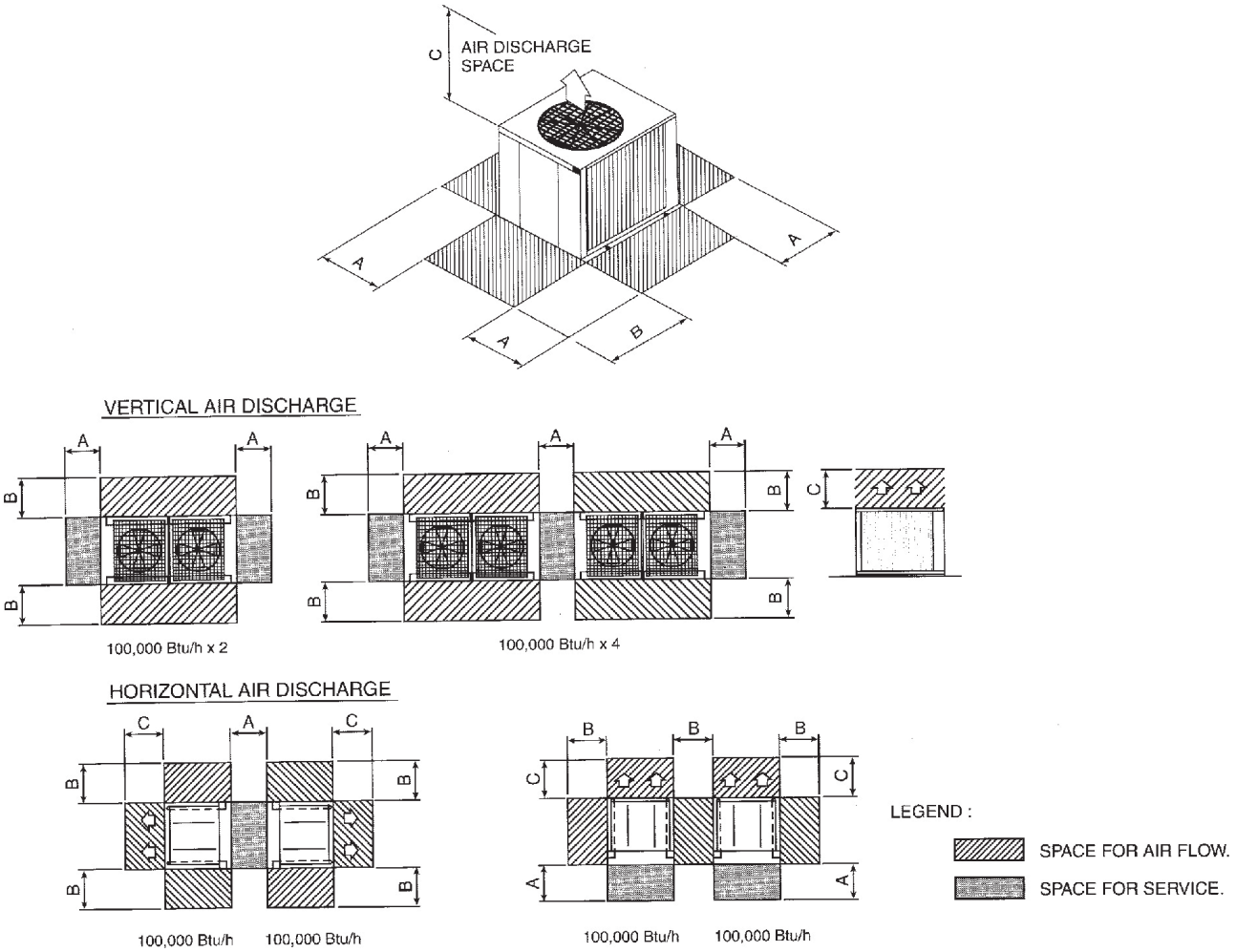
Installation Clearance

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

This also applies when two or more units are installed one above the other. Below are the installation clearance guidelines :

Model	AMC 75CR	AMC 100BR	AMC 125BR	2 x AMC 100BR	2 x AMC 125BR
A (mm)	300	500	500	700	700
B (mm)	500	300	300	300	300
C (mm)	1,200	1,200	1,200	1,500	1,500

Model	3 x AMC 100BR	AMC 100BR + 2 x AMC 125BR	4 x AMC 100BR	4 x AMC 125BR
A (mm)	1,000	1,000	1,000	1,000
B (mm)	300	300	300	300
C (mm)	2,000	2,000	2,000	2,000



Guidelines Of Field-charging Air Conditioning Systems With Scroll Compressors

These guidelines are intended for use with Scroll compressors only with R22, R407C, R134a, R404A, R507, and R410A refrigerants. They do not apply to reciprocating compressors or competitive Scroll compressors.

Field-charging - Some Precaution Points

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

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

Equipment

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

Set of service gauges
Hoses
Vacuum pump
Vacuum gauge
Scales
Thermometer

Charging Hoses

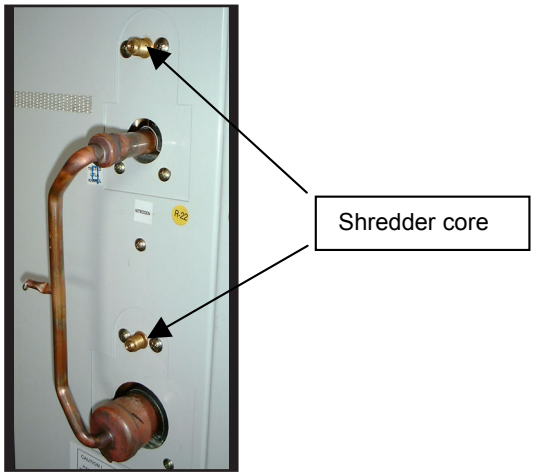
Most field-charging is done using standard service hoses. Hoses are made in different colors with different working pressures and with different leak rates but the most important point is the presence or absence of Shredder valve depressors. Shredder valve depressors severely restrict the flow through the service hoses. This slows evacuation and vapor charging dramatically. In most cases the Shredder depressor can be removed but it is simpler to have one set of hoses with and one set without Shredder depressors.

Hose with Shredder valve Depressor

Hose without Shredder valve Depressor

Hose selection is important depending whether the system is being evacuated or charged. Charging liquid from the cylinder into the liquid line should be carried out using an open hose connected to an unrestricted fitting. This will reduce charging time.

Typical service valves found on the outdoor unit



Shredder valves

Shredder valve with core in place

Shredder valve with core removed

Most split systems have a suitable connection on the outdoor unit

Shredder valves provide easy system access for pressure reading and addition of refrigerant. On small systems, they provide a reasonable connection for evacuation also. However, Shredder valves and the hoses connected to them can cause very severe pressure drops and can multiply evacuation time by a factor of 4 or 5. On the positive side, Shredder valves provide a restriction that slows the speed of liquid charging into the suction side. When a pressure drop is desirable (charging liquid into suction), connect via a Shredder valve. When a pressure drop is detrimental (evacuation), connect via an open fitting.

How Much Refrigerant?

The proper refrigerant charge should follow the volume as recommended by manufacturer and recommendation should be followed by the installer. Refer to the table of Refrigerant Charge Level.

If the installer cannot find the correct charge but the system must be started, refrigerant should be carefully added to the system until reasonable sub-cooling is measured in the liquid line and reasonable suction superheat is measured at the compressor suction. Suction and discharge pressures must be monitored carefully during the charging process.

Charge Limits

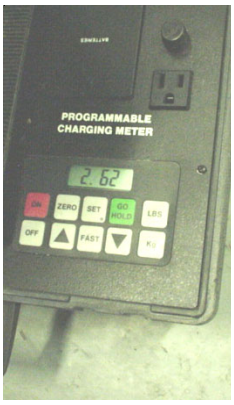
Copeland Scroll compressors have the different charge limits for different compressor models as shown in table below. If the total charge exceeds these limits, the system should have a crankcase heater and/or pump down cycle and/or accumulator to prevent liquid damage to the compressor. Some systems may require accumulators to limit liquid floodback even though the charge is lower than the published limit.

Compressor Range	Model	lbs.	kg.
Quest	ZR46 to ZR81	10	4.5
Summit	ZR84 to ZR144	16	7.3
Specter	ZR90 to ZR19M	17	7.7

Charging Recommendations

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

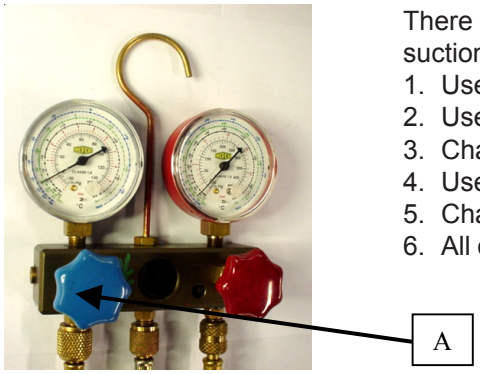
Charging Cylinder on Scale



Close-up of Scale

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

CAUTION : Manifold Gauge will show cylinder pressure rather than suction pressure if the cylinder valve and Manifold valve "A" are both open.



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

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

Charging Procedures - Three phase compressors

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

As compressors get larger the importance of correct field charging procedures grows exponentially. Unfortunately larger systems are often field charged which leads to many infant failures. All Specter compressors have internal discharge temperature protectors which are very effective in preventing dangerously high discharge temperatures during charging. The protection module will trip and lock the compressor out for 30 minutes. It is not normally necessary to wait 30 minutes for the module to reset. When the compressor has cooled down the module can be reset by breaking the power supply to the control circuit. Very often the serviceman does not understand why the module tripped and uses a jumper wire to bypass it. He continues to charge the system and removes the jumper when charging is complete. The compressor may or may not run with the protector back in the circuit but it is certain that the compressor has been damaged and premature failure is inevitable.

System Refrigerant Charge Level Guidelines

Indoor	Outdoor	Liquid Pipe	Gas Pipe	Refrigerant Charge (kg/7.5m pipe length)
ADB75BR	AMC75CR	1/2	1	4.60
ADB100BR	AMC100BR	5/8	1-1/8	5.60
ADB125CR	AMC125BR	5/8	1-3/8	6.50
ADB150BR2	AMC75CR x 2	1/2	1	4.60 x 2
ADB200BR2	AMC100BR x 2	5/8	1-1/8	5.60 x 2
ADB250BR2	AMC125BR x 2	5/8	1-3/8	6.50 x 2
ADB300BR3	AMC100BR x 3	5/8	1-1/8	5.60 x 3
ADB350BR3	AMC100BR + AMC125BR x 2	5/8	1-1/8 & 1-3/8	5.60 + (6.50 x 2)
ADB400BR4	AMC100BR x 4	5/8	1-1/8	5.60 x 4
ADB500BR4	AMC125BR x 4	5/8	1-3/8	6.50 x 4
ADSB200BR2	AMC100BR x 2	5/8	1-1/8	5.60 x 2
ADSB250BR2	AMC125BR x 2	5/8	1-3/8	6.50 x 2
ADSB300BR3	AMC100BR x 3	5/8	1-1/8	5.60 x 3
ADSB350BR3	AMC100BR + AMC125BR x 2	5/8	1-1/8 & 1-3/8	5.60 + (6.50 x 2)
ADSB400BR4	AMC100BR x 4	5/8	1-1/8	5.60 x 4
ADSB500BR4	AMC125BR x 4	5/8	1-3/8	6.50 x 4

Additional charge

Based on liquid pipe size per meter length:

Liquid Pipe Size, inch	Additional Charge, kg/meter
1/4"	0.02
5/16"	0.04
3/8"	0.05
1/2"	0.1
5/8"	0.17
3/4"	0.26
7/8"	0.37

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

4. SOUND DATA

SOUND PRESSURE LEVEL

ADB-BR SERIES

Model	Speed	1/1 Octave Sound Pressure Level (dB, ref 20μPa)							Overall A (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
*ADB75BR	High	55	54	54	51	49	44	36	56	50
	Medium	53	52	52	49	47	42	34	54	48
	Low	52	50	49	47	45	40	32	52	46
*ADB100BR	High	56	55	55	52	50	45	37	57	51
	Medium	54	54	53	50	48	43	36	55	49
	Low	53	52	51	48	46	41	35	53	47
*ADB150BR	High	58	56	57	54	52	47	39	59	54
ADB200BR	High	60	56	58	56	54	49	41	61	55
ADB250BR	High	62	57	59	59	57	52	43	63	58
ADB300BR	High	66	60	62	61	59	54	44	66	60
ADB350BR	High	67	60	62	62	59	54	44	66	61
ADB400BR	High	67	64	63	63	59	54	45	66	62
ADB500BR	High	69	66	66	64	61	56	47	68	63

Microphone position: 1 m away from the service panel and 1 m height from the floor level (free return and the discharge air was ducted to adjacent room).
*Microphone position: 1.4 m below the unit, discharge air is ducted to adjacent room, free return.

ADB-CR SERIES

Model	Speed	1/1 Octave Sound Pressure Level (dB, ref 20μPa)							Overall A (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
ADB125CR	High	58	56	57	54	52	47	39	59	54

Microphone position: 1.4 m below the unit, discharge air is ducted to adjacent room, free return.

ADSB-BR SERIES

Model	Speed	1/1 Octave Sound Pressure Level (dB, ref 20μPa)							Overall A (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
ADSB200BR	High	60	56	54	53	50	47	39	58	52
ADSB250BR	High	62	57	55	56	53	50	41	60	55
ADSB300BR	High	66	60	58	58	55	52	42	63	57
ADSB350BR	High	67	60	58	59	55	52	42	63	58
ADSB400BR	High	67	64	59	60	55	52	43	64	59
ADSB500BR	High	69	66	62	61	57	54	45	65	60

Microphone position: 1 m away from the service panel and 1 m height from the floor level (free return and the discharge air was ducted to adjacent room).

SOUND POWER LEVEL

ADB-BR SERIES

Model	Speed	1/1 Octave Sound Power Level (dB, reference 1pW)							Overall A (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
ADB75BR	High	72	73	71	68	65	61	56	73
	Medium	70	70	68	65	62	58	53	70
	Low	68	67	65	62	59	55	50	67
ADB100BR	High	74	74	73	70	67	63	58	75
	Medium	72	73	71	68	65	61	56	73
	Low	70	70	68	65	62	58	53	70
ADB150BR	High	77	78	77	74	71	67	62	79
ADB200BR	High	83	84	83	81	77	73	68	85
ADB250BR	High	85	86	85	83	79	75	70	87
ADB300BR	High	87	88	87	85	81	77	72	89
ADB350BR	High	90	91	90	87	84	80	75	92
ADB400BR	High	88	89	88	86	82	78	73	90
ADB500BR	High	94	95	94	92	88	84	79	96

Remarks:Test with 5ft length discharge duct, terminated flush with the internal wall of reverberation room

ADB-CR SERIES

Model	Speed	1/1 Octave Sound Power Level (dB, reference 1pW)							Overall A (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
ADB125CR	High	77	78	77	74	71	67	62	79

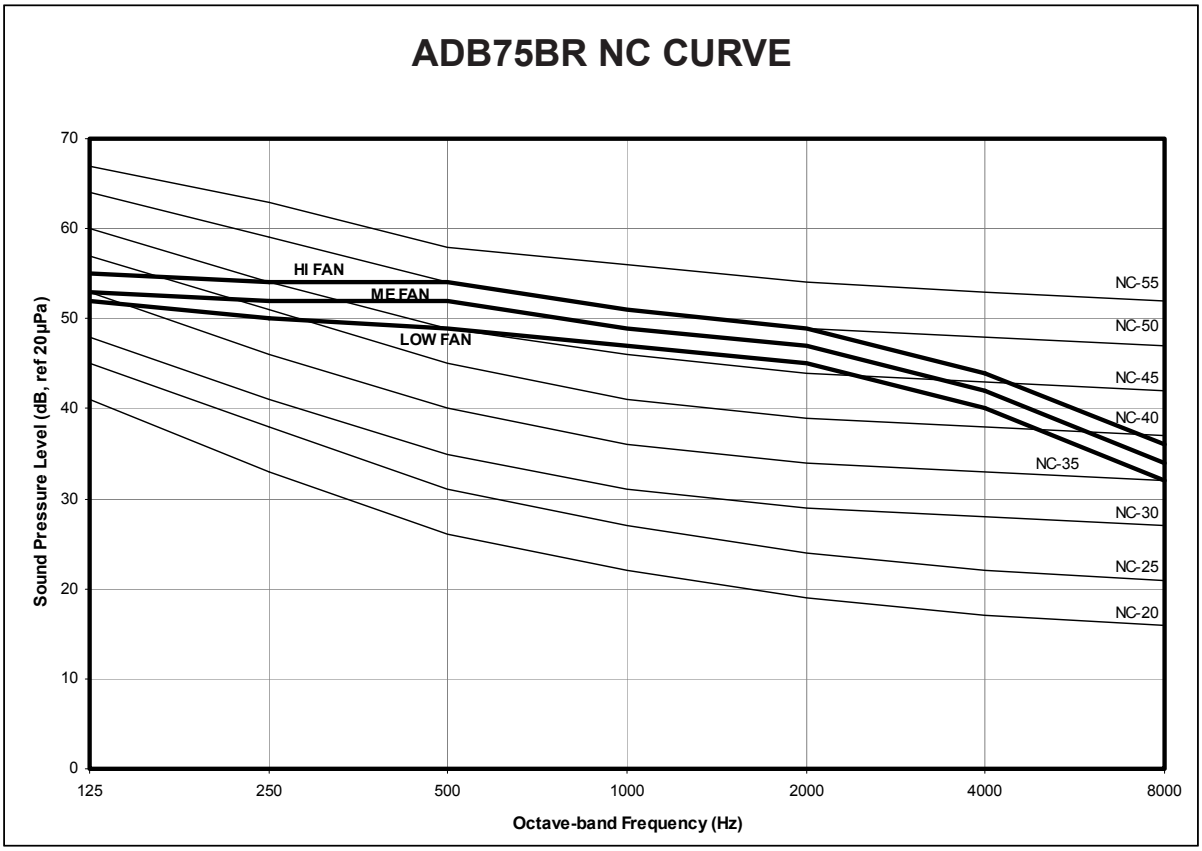
Remarks:Test with 5ft length discharge duct, terminated flush with the internal wall of reverberation room

ADSB-BR SERIES

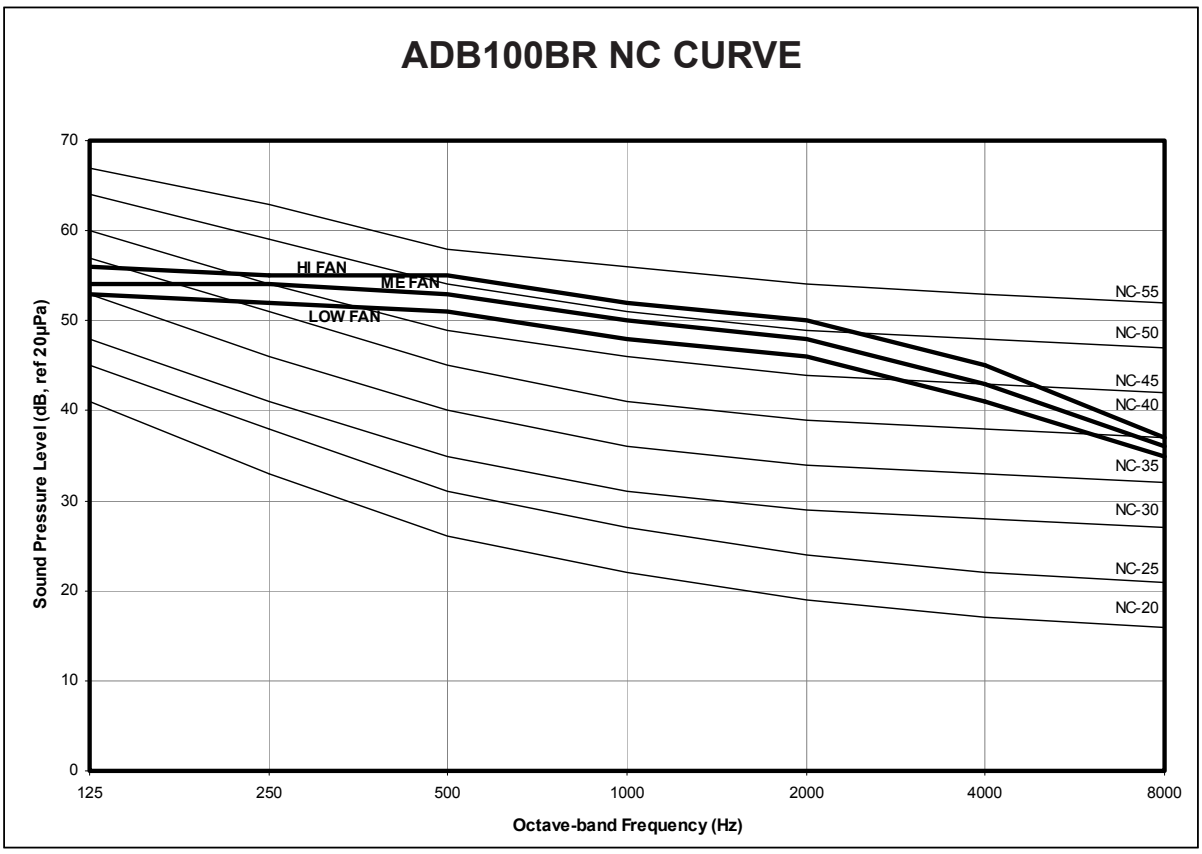
Model	Speed	1/1 Octave Sound Power Level (dB, reference 1pW)							Overall A (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
ADSB200BR	High	83	84	79	78	73	71	66	83
ADSB250BR	High	85	86	81	80	75	73	68	85
ADSB300BR	High	87	88	83	82	77	75	70	87
ADSB350BR	High	90	91	86	84	80	78	73	89
ADSB400BR	High	88	89	84	83	78	76	71	88
ADSB500BR	High	94	95	90	89	84	82	77	94

Remarks:Test with 5ft length discharge duct, terminated flush with the internal wall of reverberation room

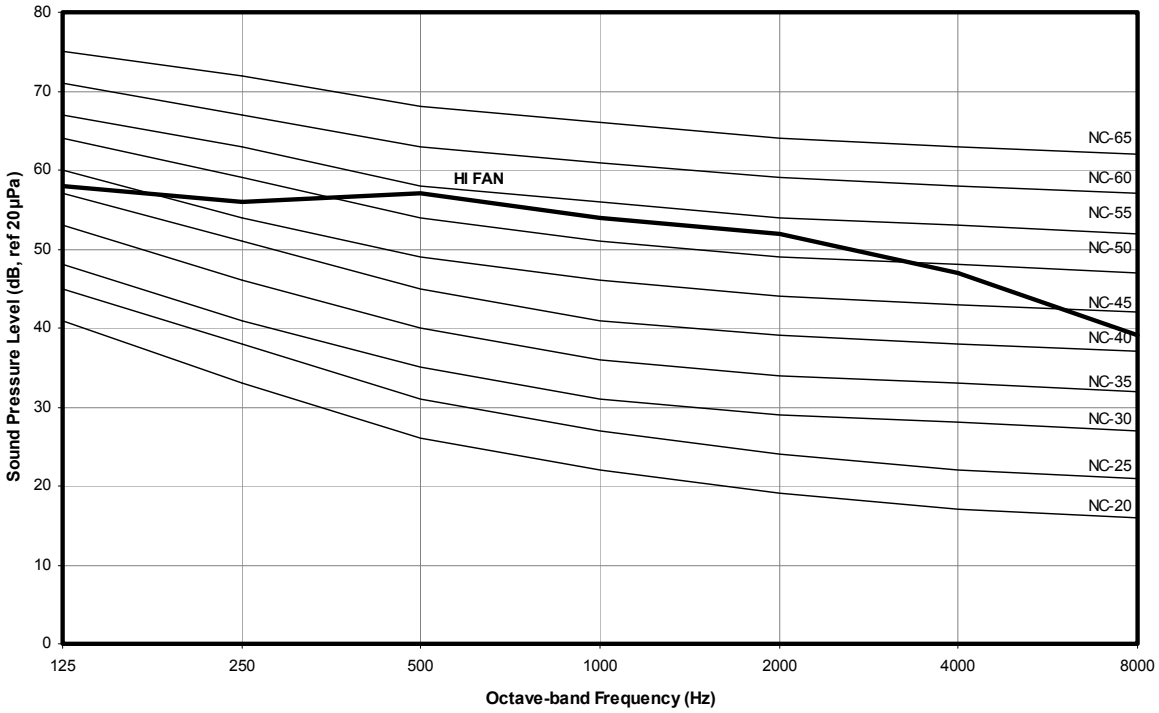
ADB75BR NC CURVE



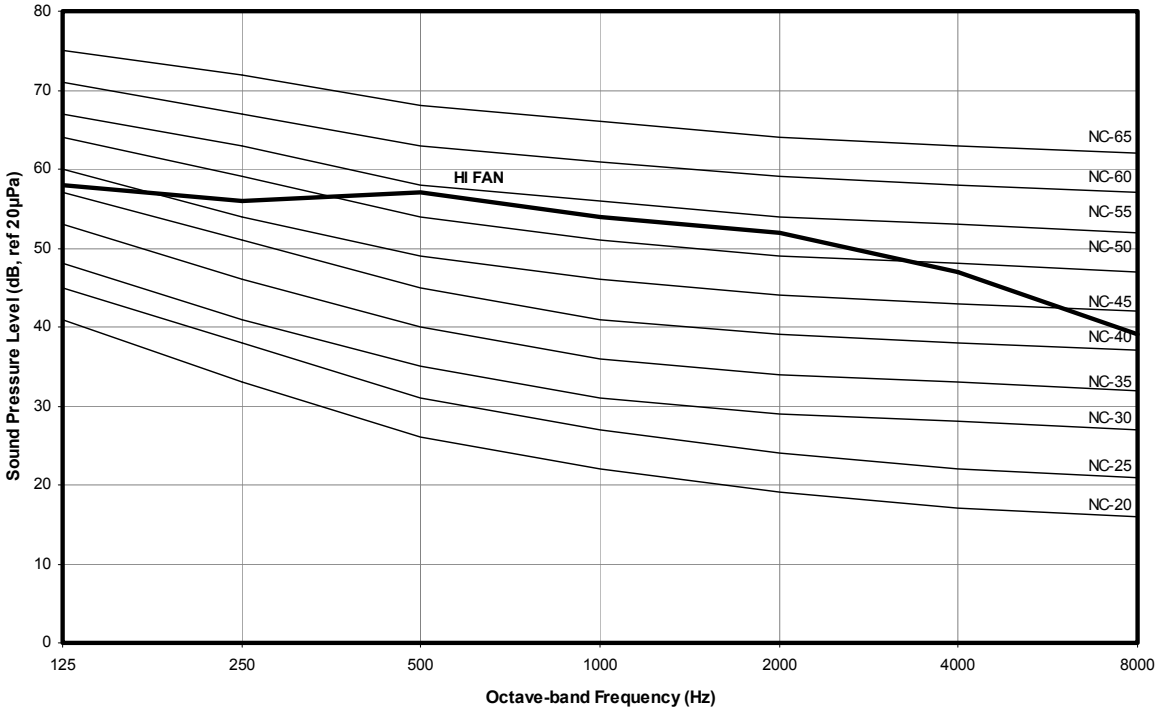
ADB100BR NC CURVE



ADB125CR NC CURVE



ADB150BR NC CURVE



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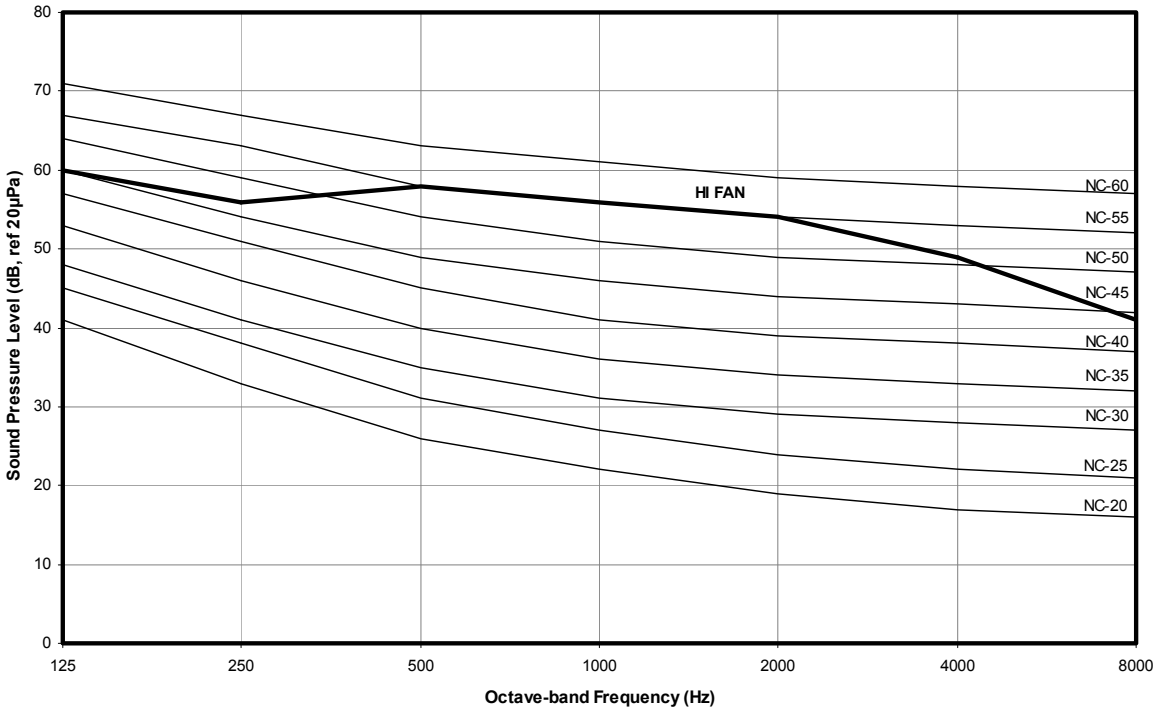

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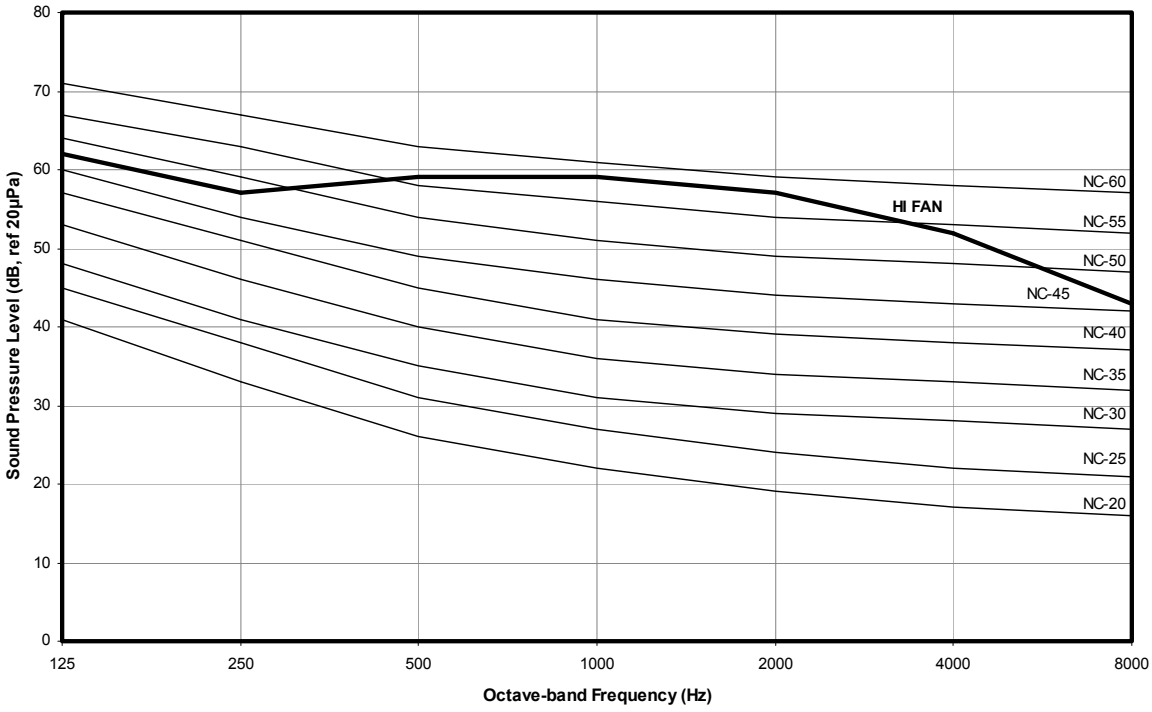

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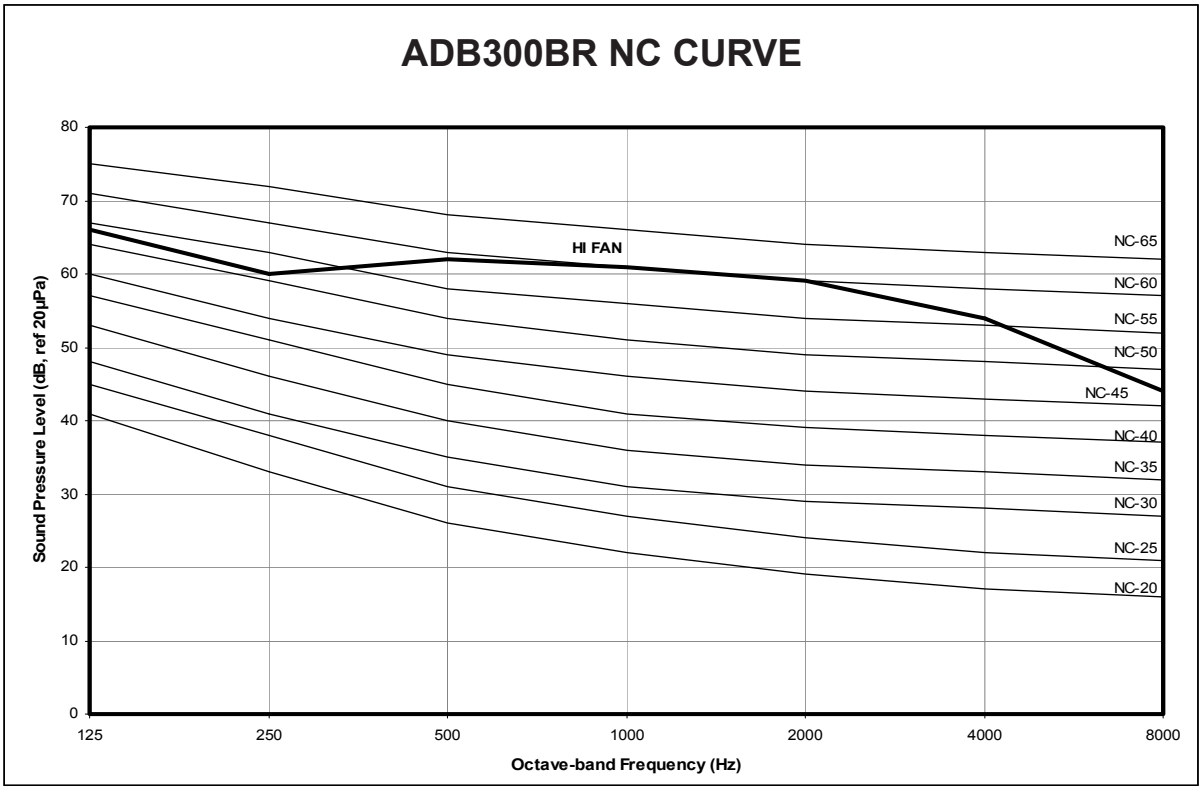
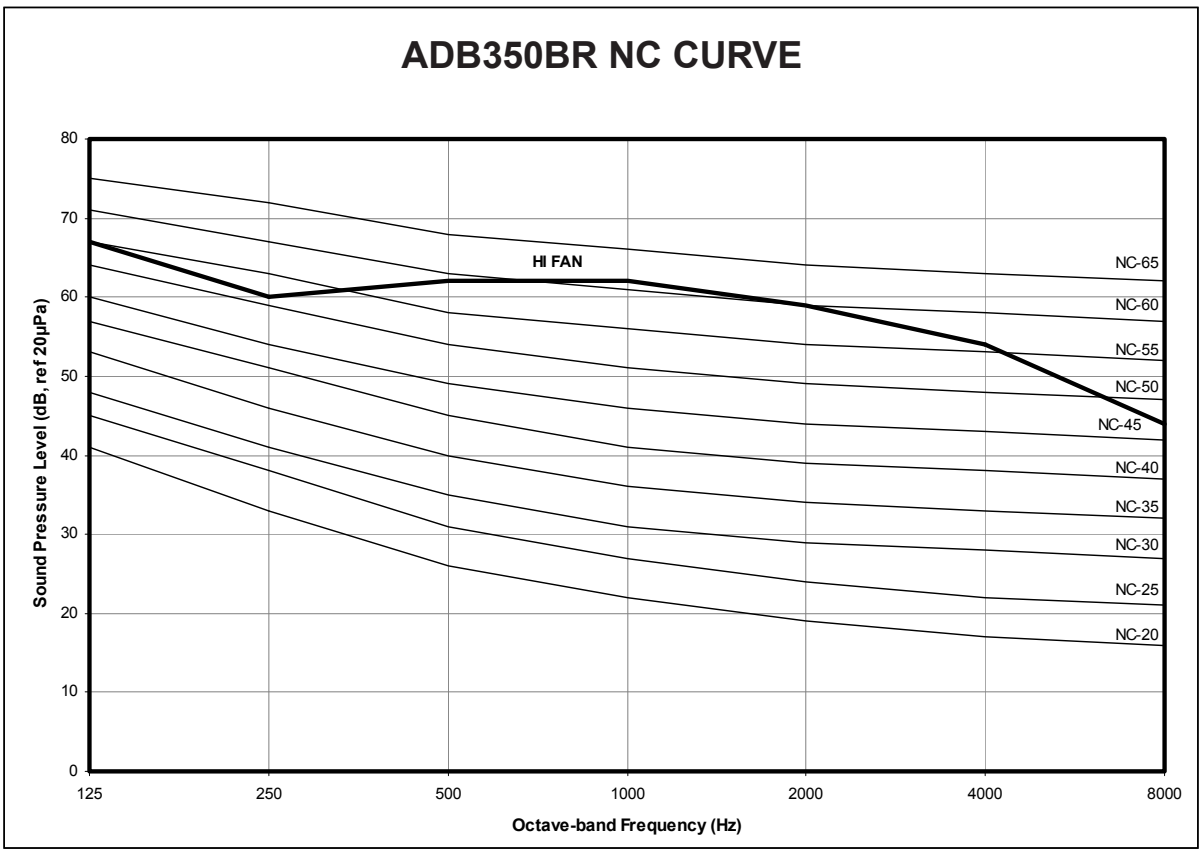
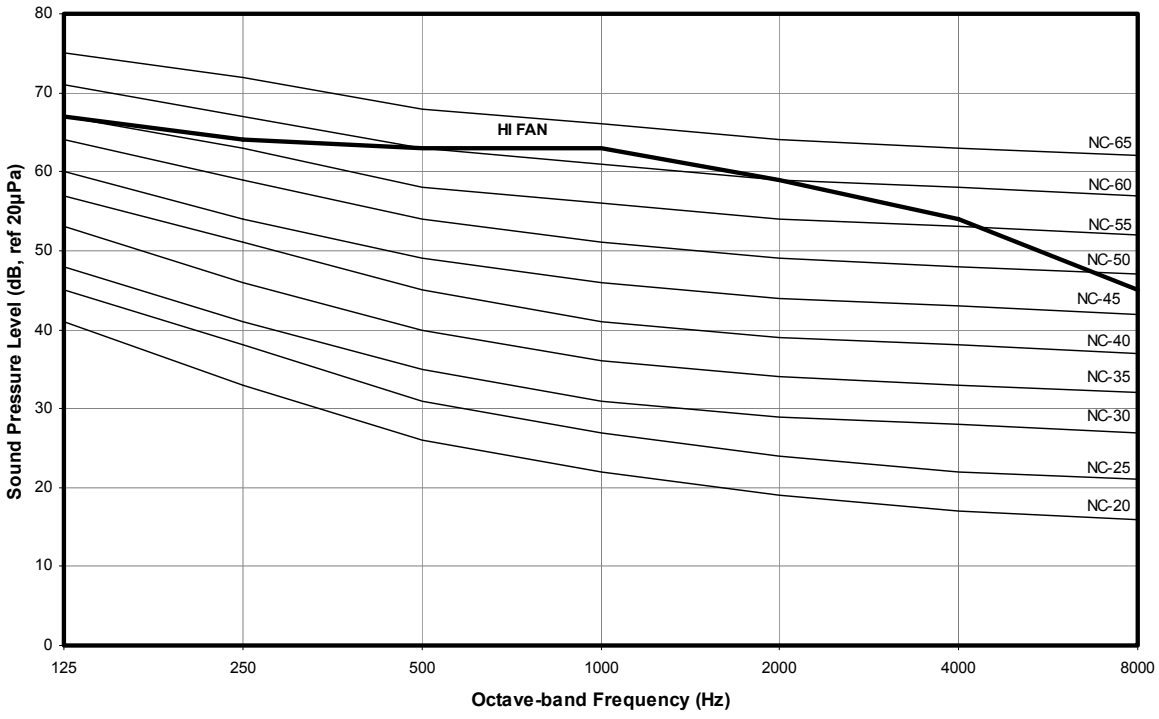


ADB350BR NC CURVE



ADB400BR NC CURVE



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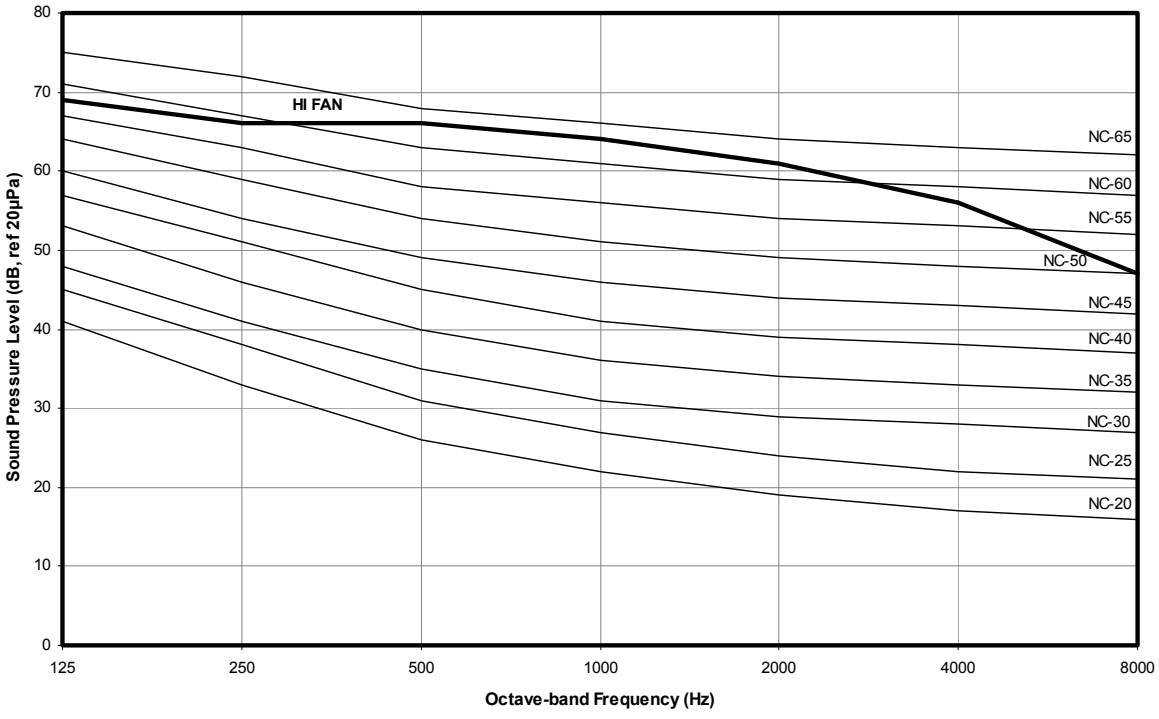
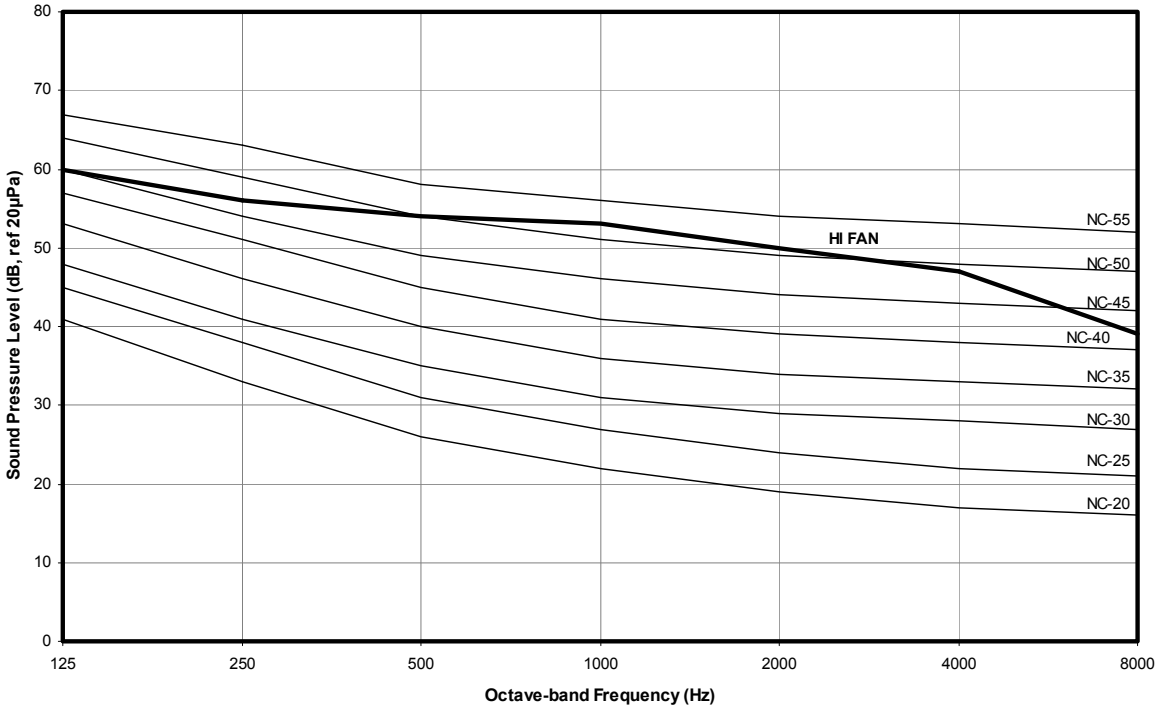


ADSB200BR NC CURVE



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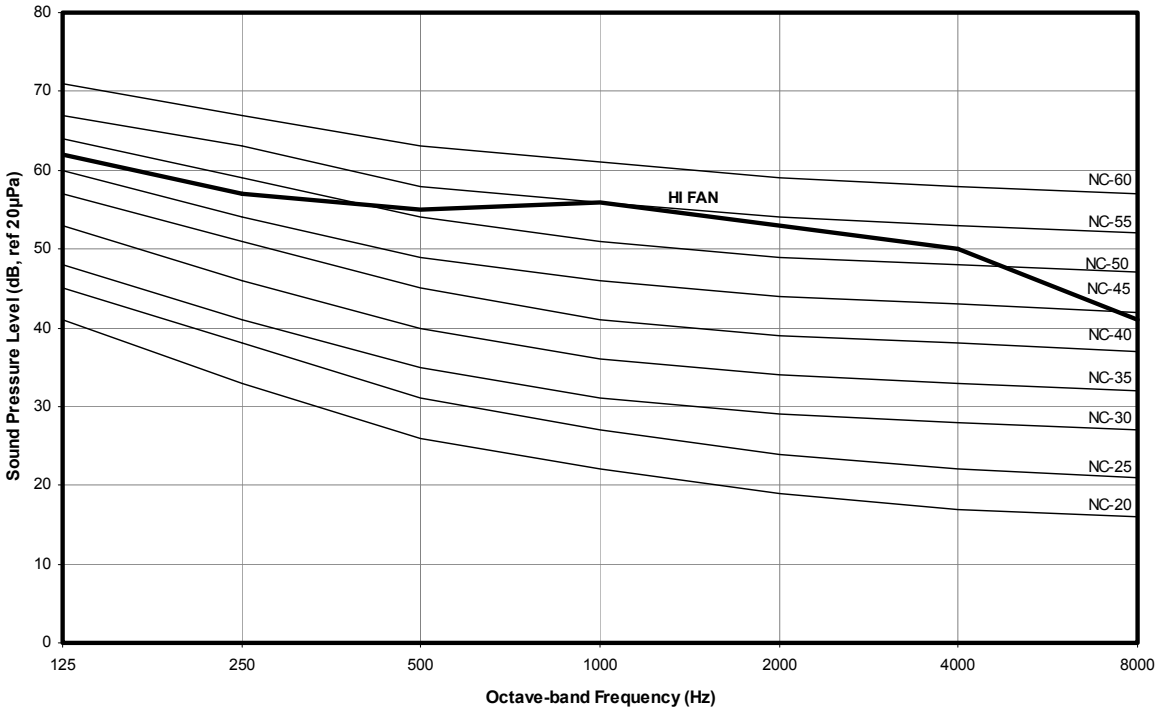
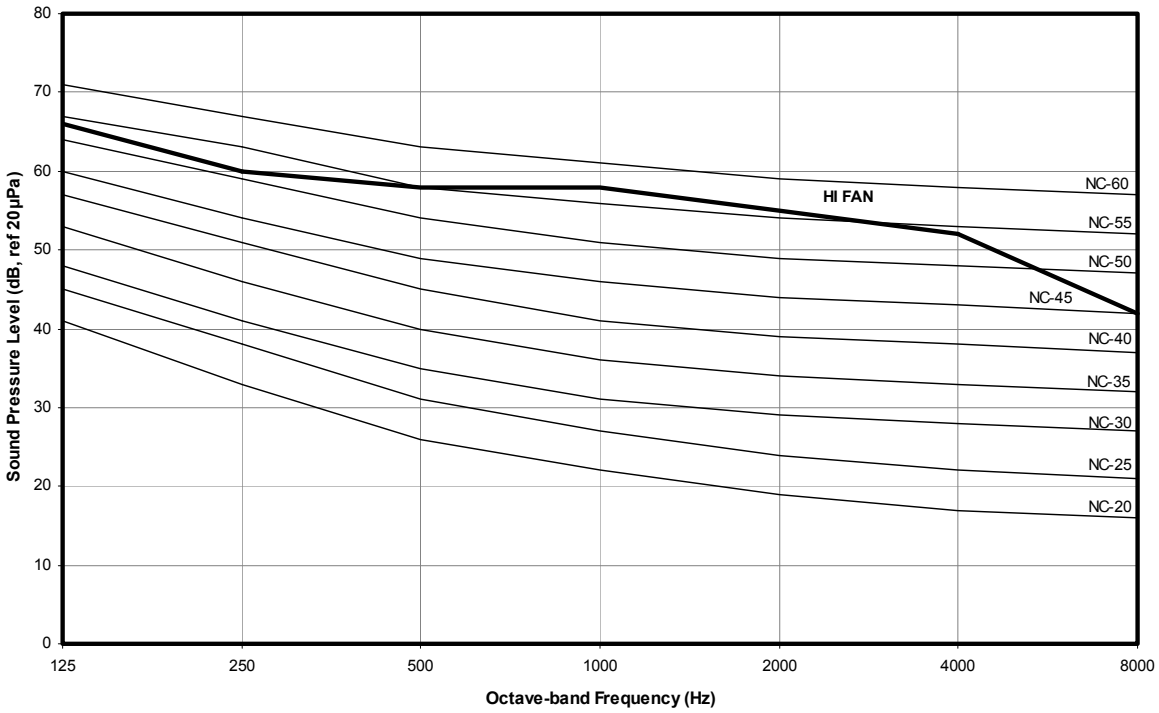


ADSB300BR NC CURVE



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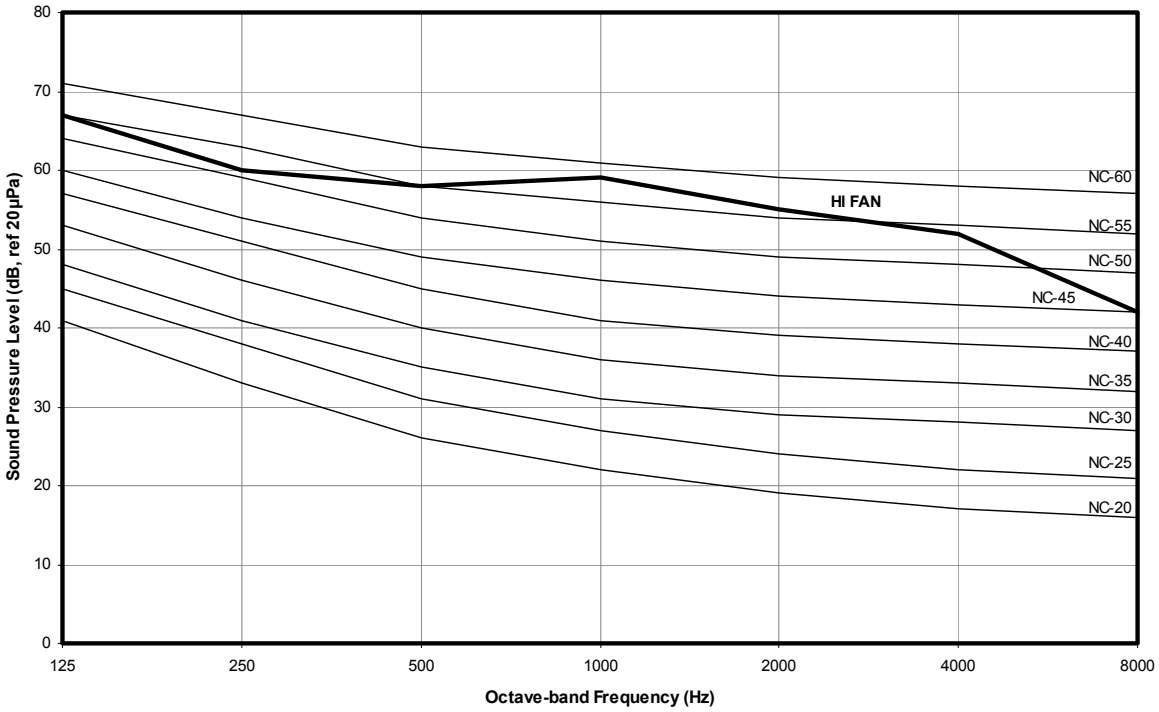

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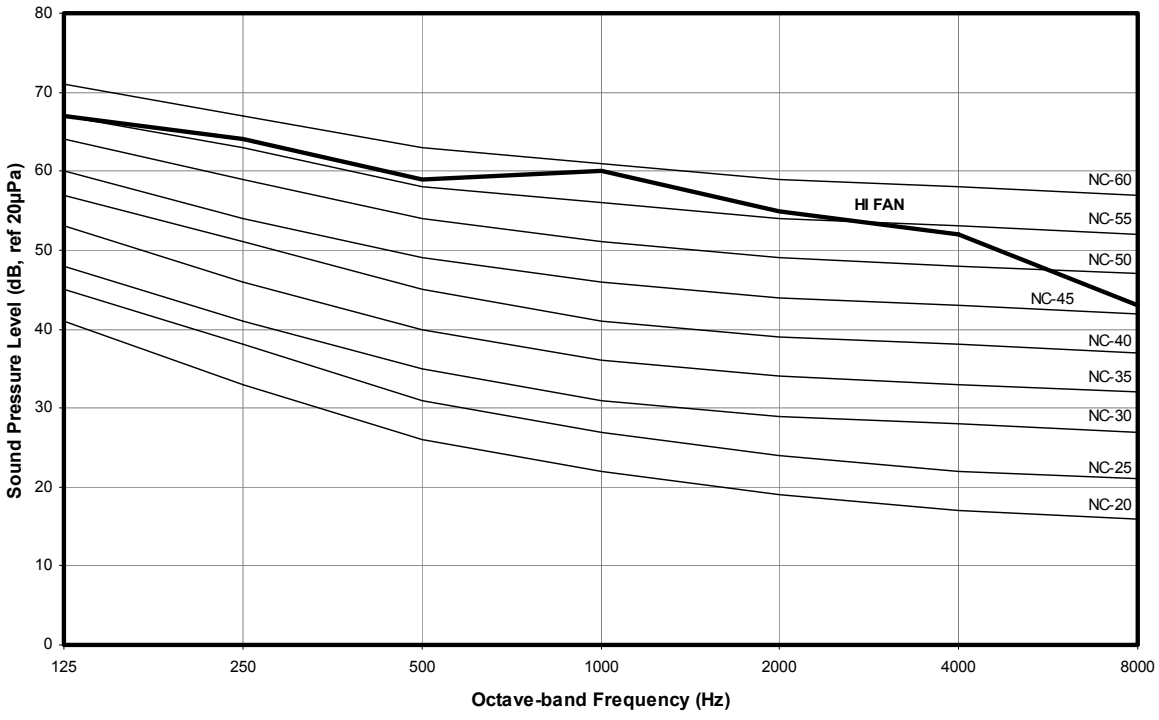
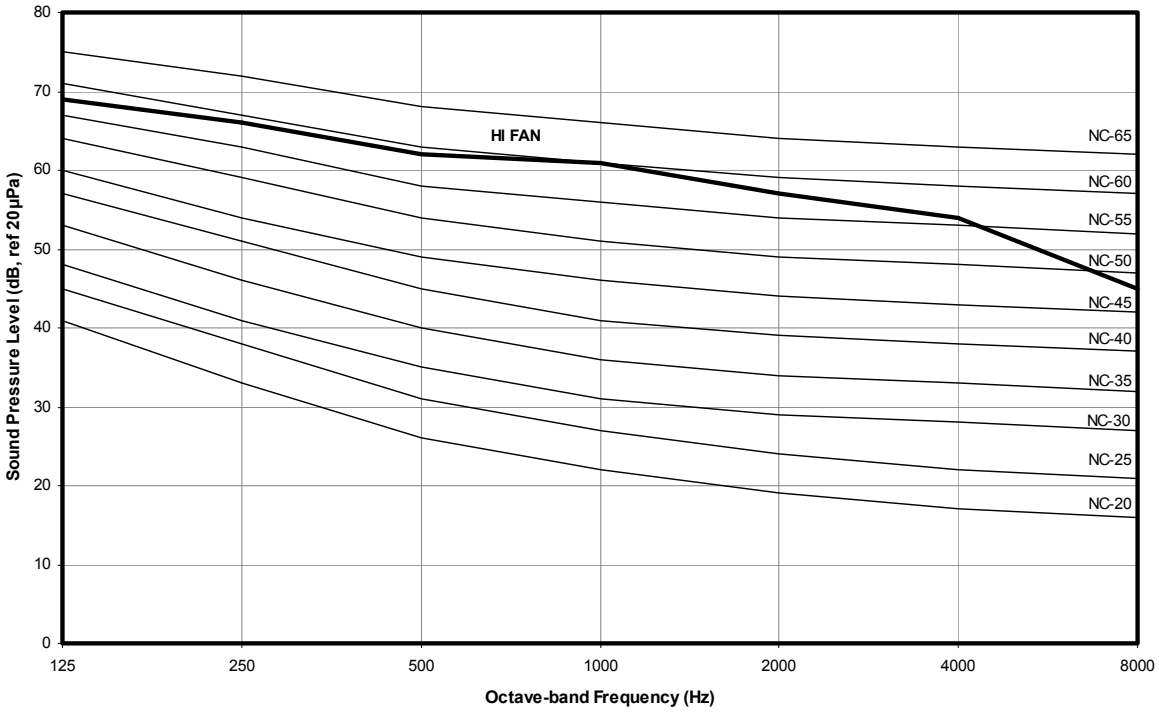


ADSB500BR NC CURVE



5. SELECTION PROCESS

Fan Performance Chart

The following are the design requirements for ADB125CR unit:

Model:		**ADB125CR**		
Supply Air Quantity	=	4250	CFM
External Static Pressure	=	25	mmAq

Step 1:

From the fan curve (at 4250 CFM),
Standard operating system;

Total Static Pressure	=	**33.5**	mmAq
Internal Static Pressure	=	**10.5**	mmAq
External Static Pressure	=	**23.0**	mmAq

External Static Pressure of 23.0 mmAq did not fulfill the design requirements.

Step 2:

Therefore at 4500 CFM and 25 mmAq External static pressure,

Total Static Pressure	=	10.5 + 25	mmAq
	=	**35.5**	mmAq

Step 3:

From the fan curve, the design requirement calls for RPM about 800, whereas the unit can only deliver RPM about 780 under the same CFM. Therefore, it is necessary to resize the pulley sizes.

From the table:

Motor pulley	=	3.5"
Blower pulley	=	6.5"
Motor RPM	=	1425

In order to obtain 800 RPM, we recalculate the new blower pulley as:
(while maintaining the motor pulley)

Db	=	3.5" x (1425/800)
	=	6.234"

The nearest pulley size will be a diameter of 6"

Recheck, with Db = **6"**

Blower pulley	=	1425 x (3.5/6)
	=	**831**

We thus need to change the blower pulley from 6.5" to 6" in order to obtain the higher operating static pressure.

Step 4:

When the pulley is changed, the V-belt length must be rechecked. We have for horizontal air throw configuration:

V-belt length, L	=	2C + 1.57 (Db + Dm)
	=	(2 x (180 x 0.03937")) + 1.57 (3.5" + 6")
	=	29.1"

We thus can use a belt with a length of **30"**

where,	C	=	distance between the centres of the two pulleys
	Db	=	diameter of blower pulley
	Dm	=	diameter of motor pulley

Step 5:

From the fan curve, we can also notice that the motor power input has increased. At the new operating point, the power is approximately 1.25 kW.

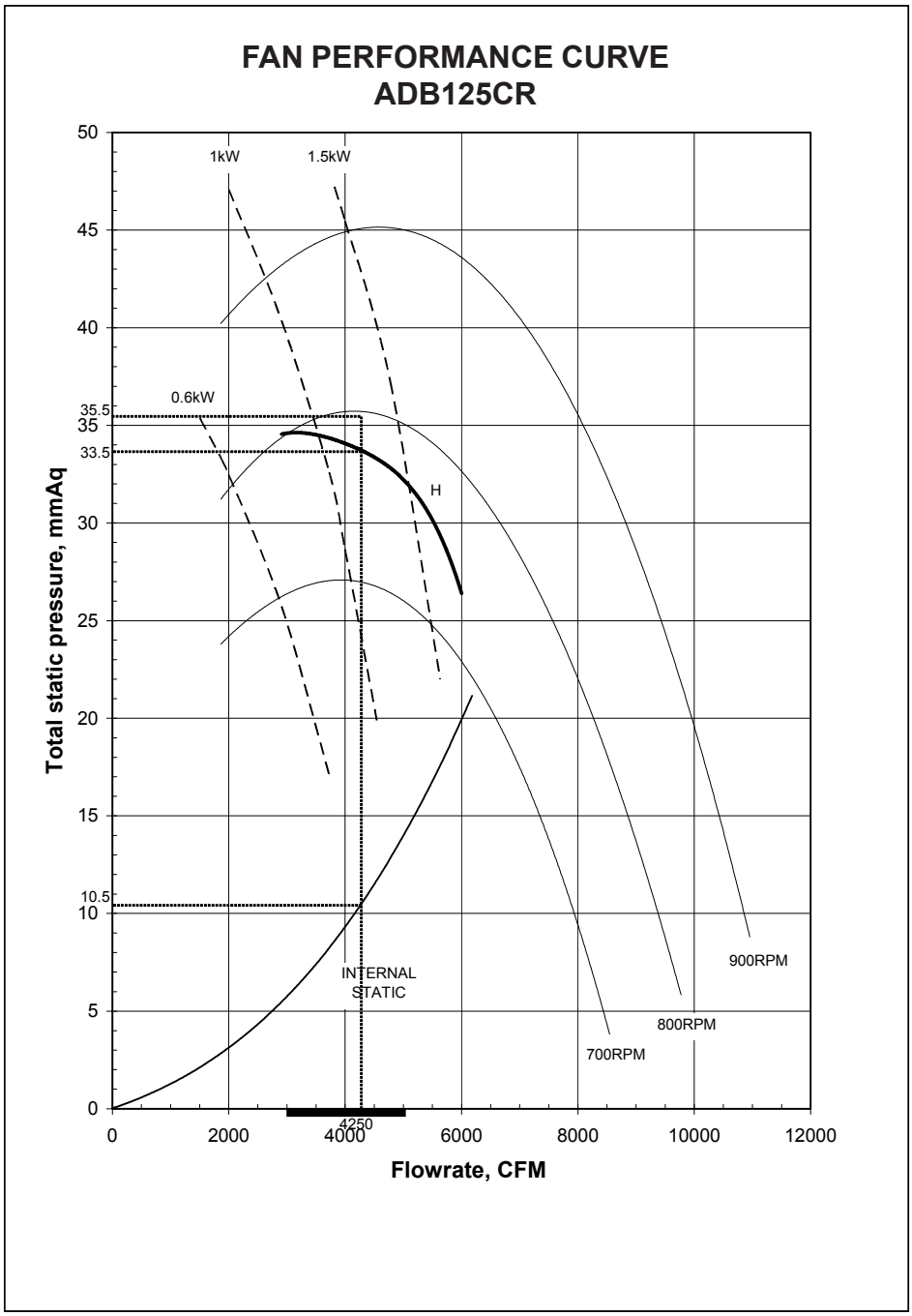
By applying a safety factor of 1.2 to account for losses, we calculate that the motor power input requirement should be = 1.25 x 1.2 = **1.5 kW**
Thus, the existing motor is still sufficient to drive the blower with the smaller 6" pulley.

Summary:

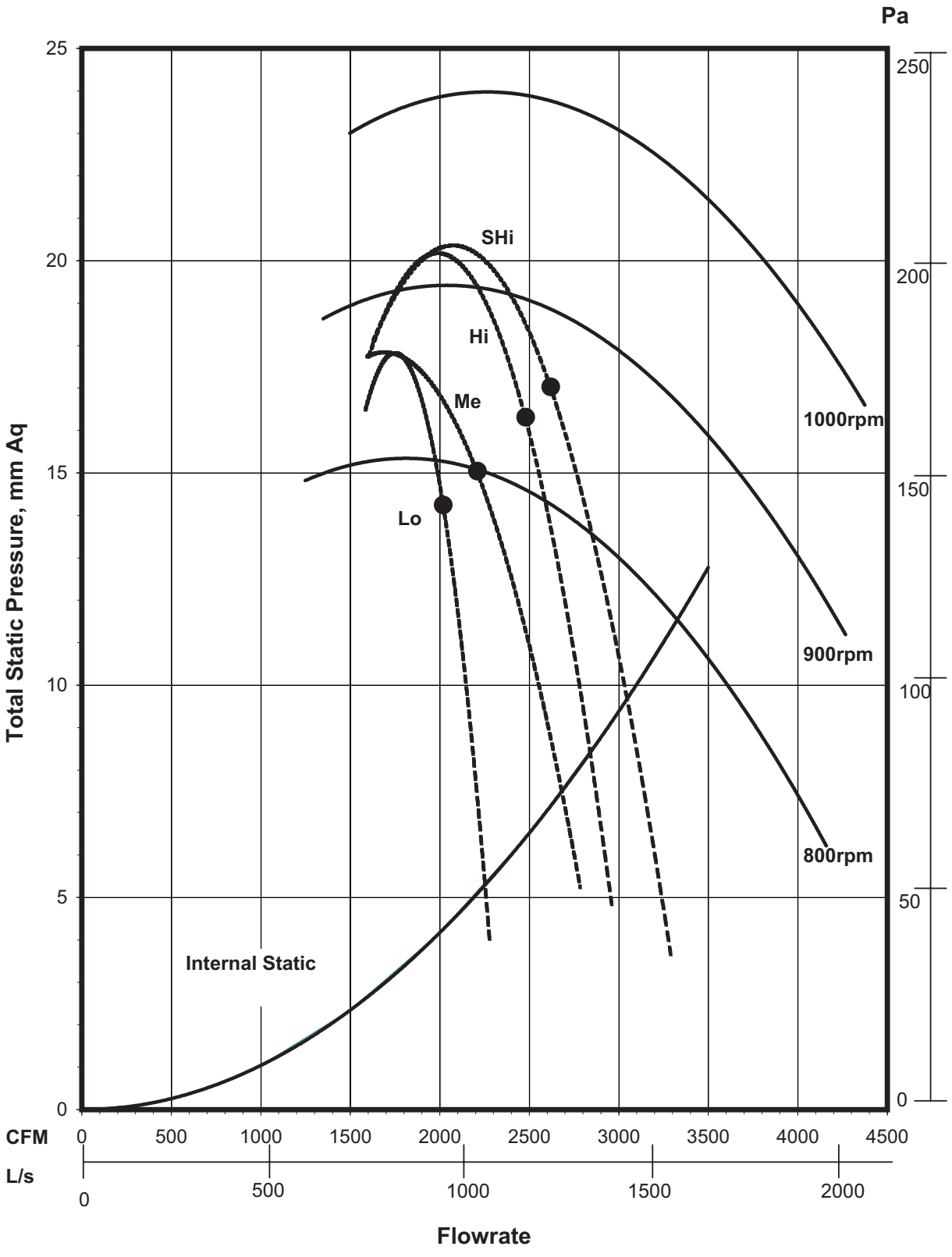
i) Fan motor kW	=	**1.5**	kW
ii) Blower pulley diameter	=	**6"**	
iii) V-belt size	=	**30"**	

The following table summarizes the pulley data, motor size used for the ADB/ADSB series, as manufactured:

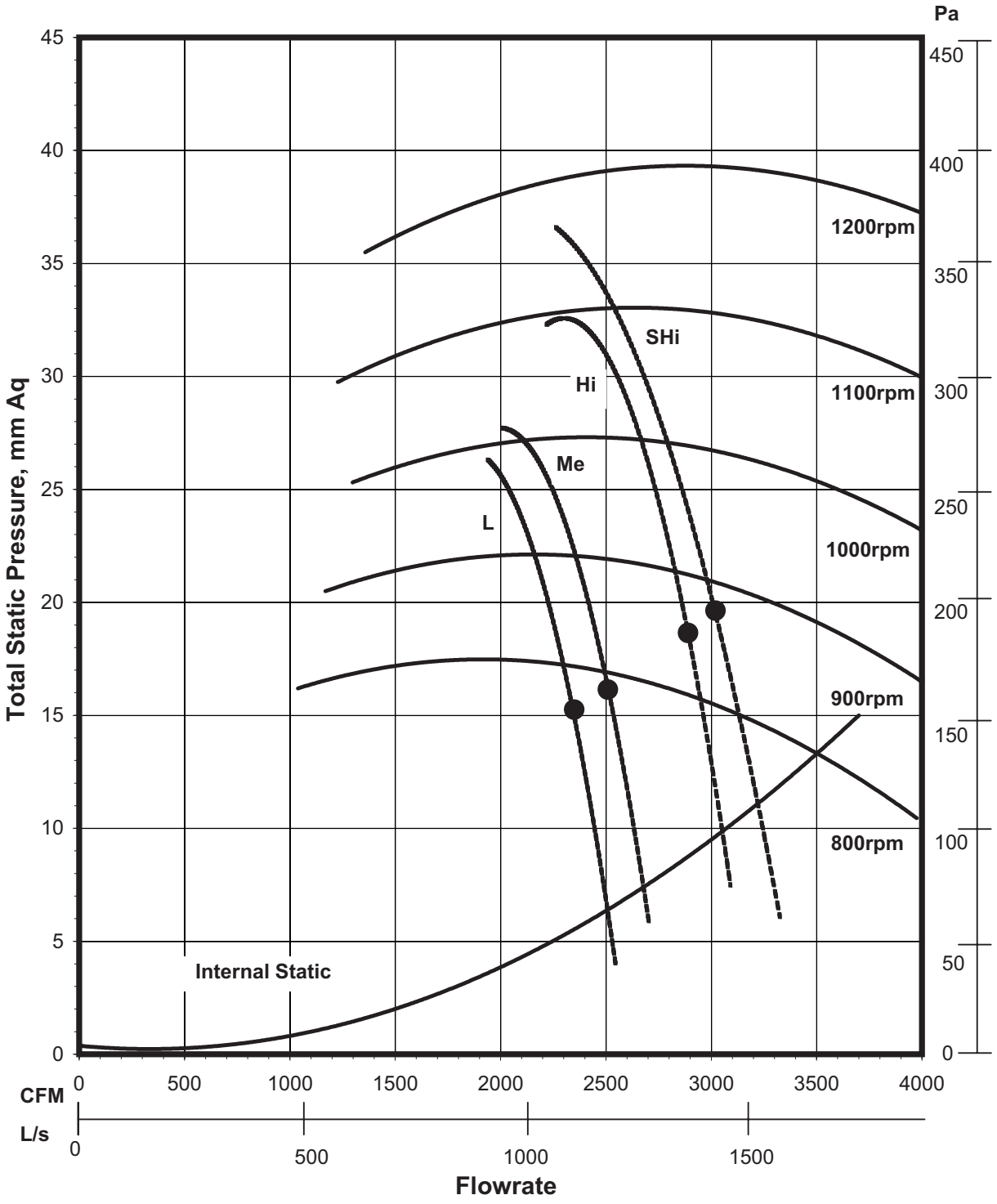
Model	Motor pulley, Dm		Blower pulley, Db		Pulley Centre Distance, C		Motor
	V-pulley	Taper #	V-pulley	Taper #	Horizontal	Vertical	
	(in.)	(mm)	(in.)	(mm)	(mm)	(mm)	kW
ADB 125CR	3.5	85	6.5	160	180	-	1.5
ADB 150BR	4.0	80	8.0	160	319	340	1.5
ADB/ADSB 200BR	4.0	80	7.0	140	314	330	3.0
ADB/ADSB 250BR	6.5	90	12.0	180	599	623	4.0
ADB/ADSB 300BR	6.5	95	12.0	180	599	623	4.0
ADB/ADSB 350BR	6.0	125	12.0	250	840	870	5.5
ADB/ADSB 400BR	5.5	106	13.0	250	732	782	5.5
ADB/ADSB 500BR	6.0	150	12.0	315	700	751	11.0



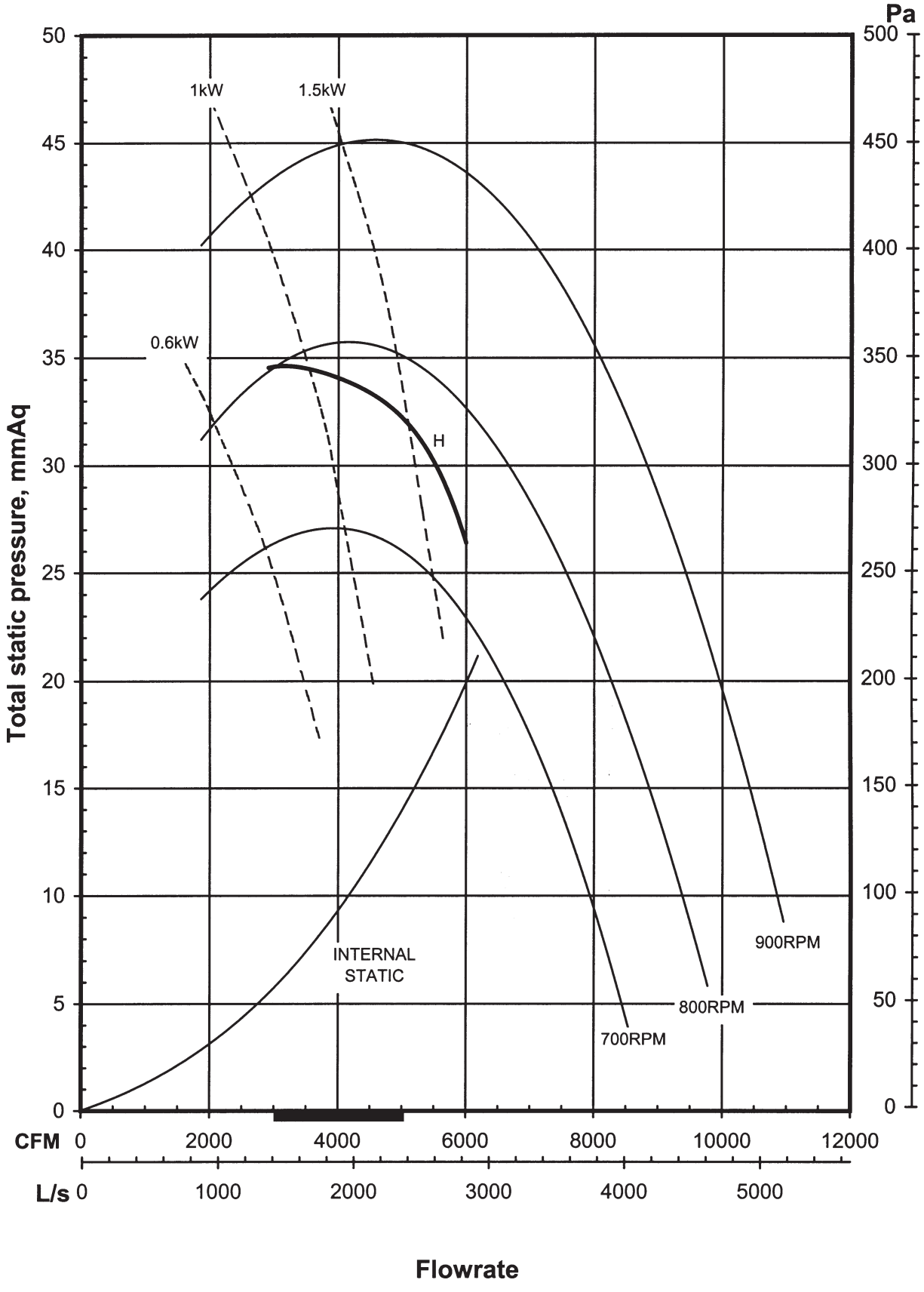
FAN PERFORMANCE CURVE
ADB75BR



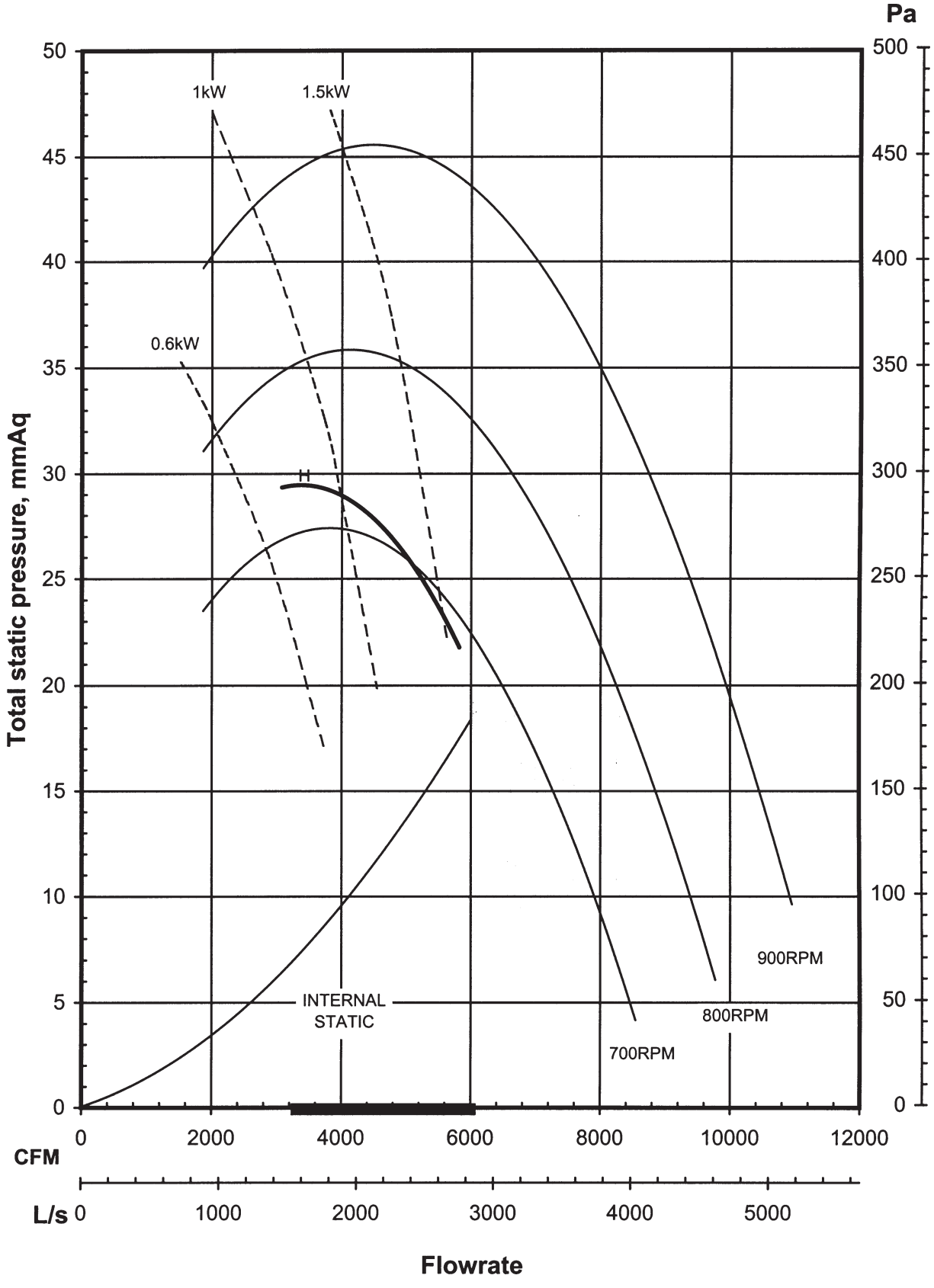
FAN PERFORMANCE CURVE
ADB100BR



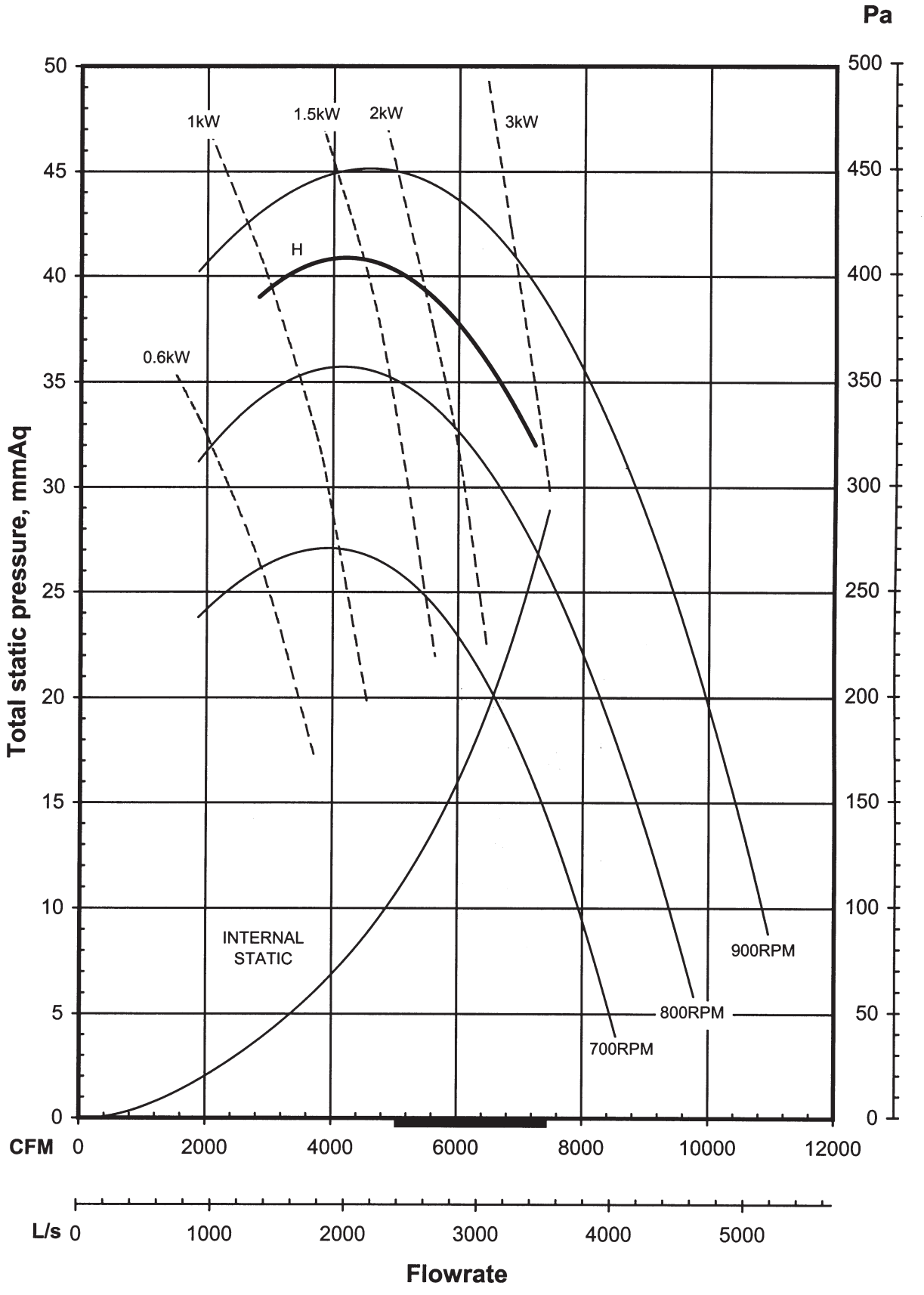
FAN PERFORMANCE CURVE
ADB125CR



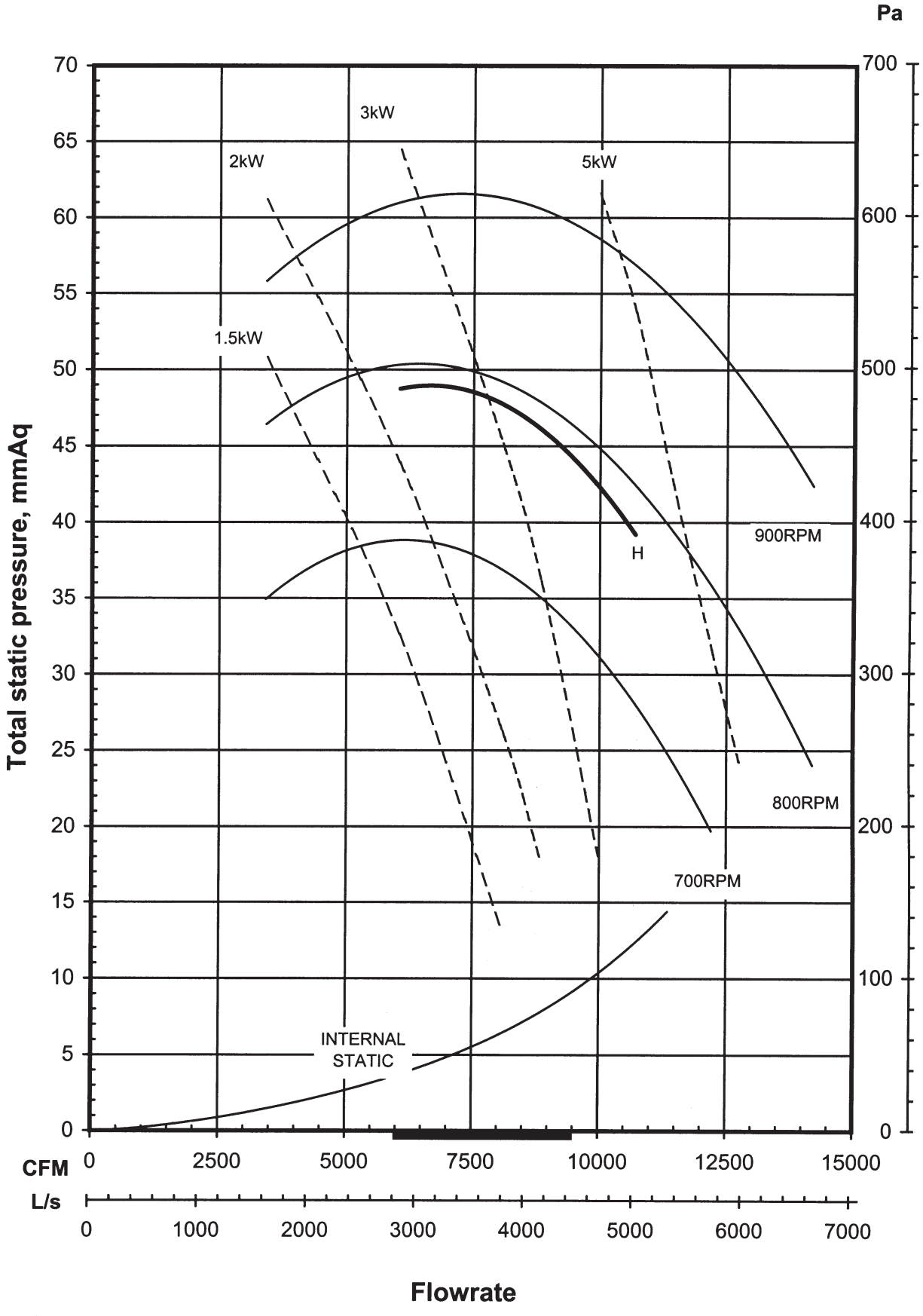
FAN PERFORMANCE CURVE
ADB150BR



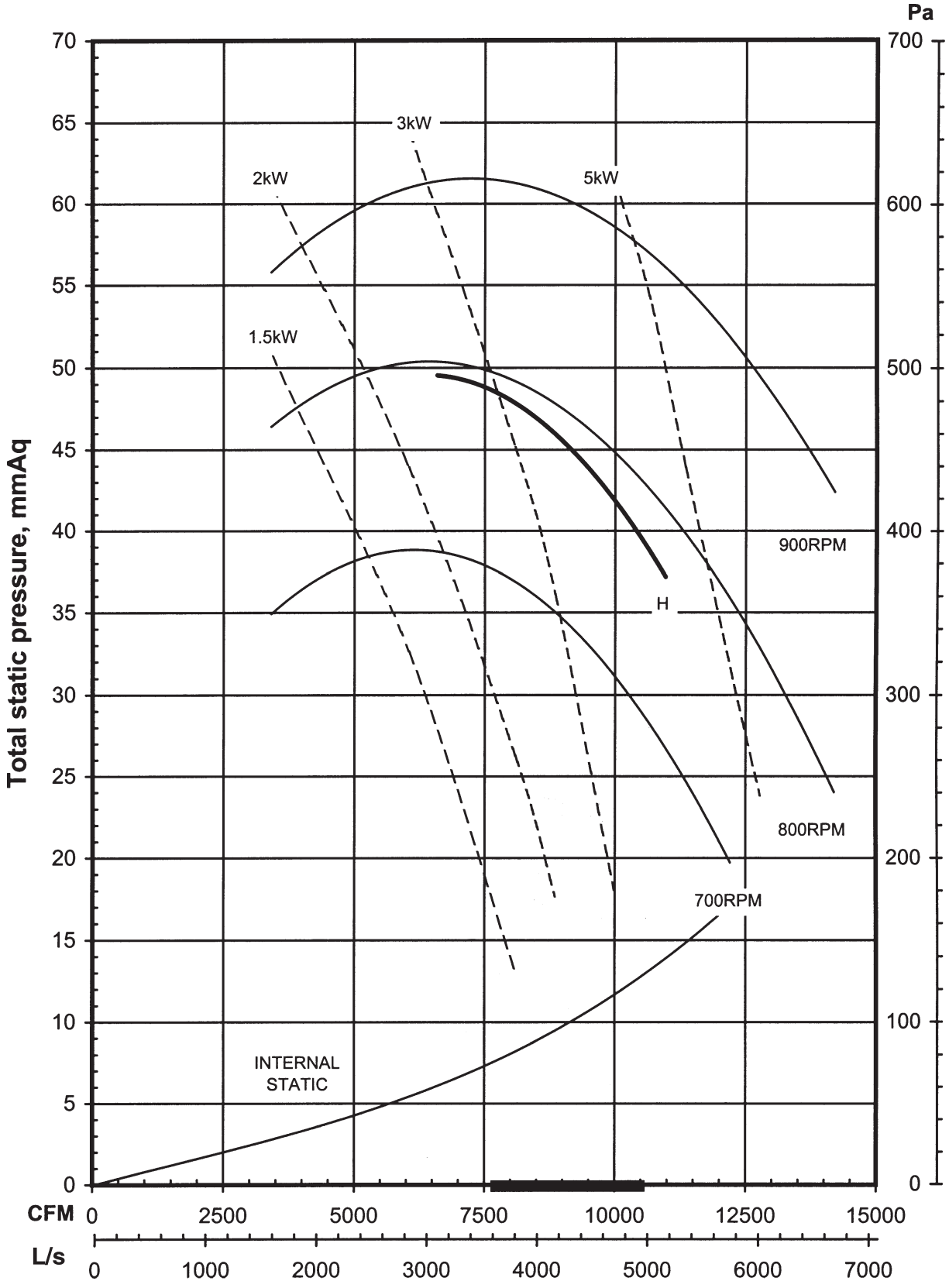
FAN PERFORMANCE CURVE
ADB/ADSB200BR



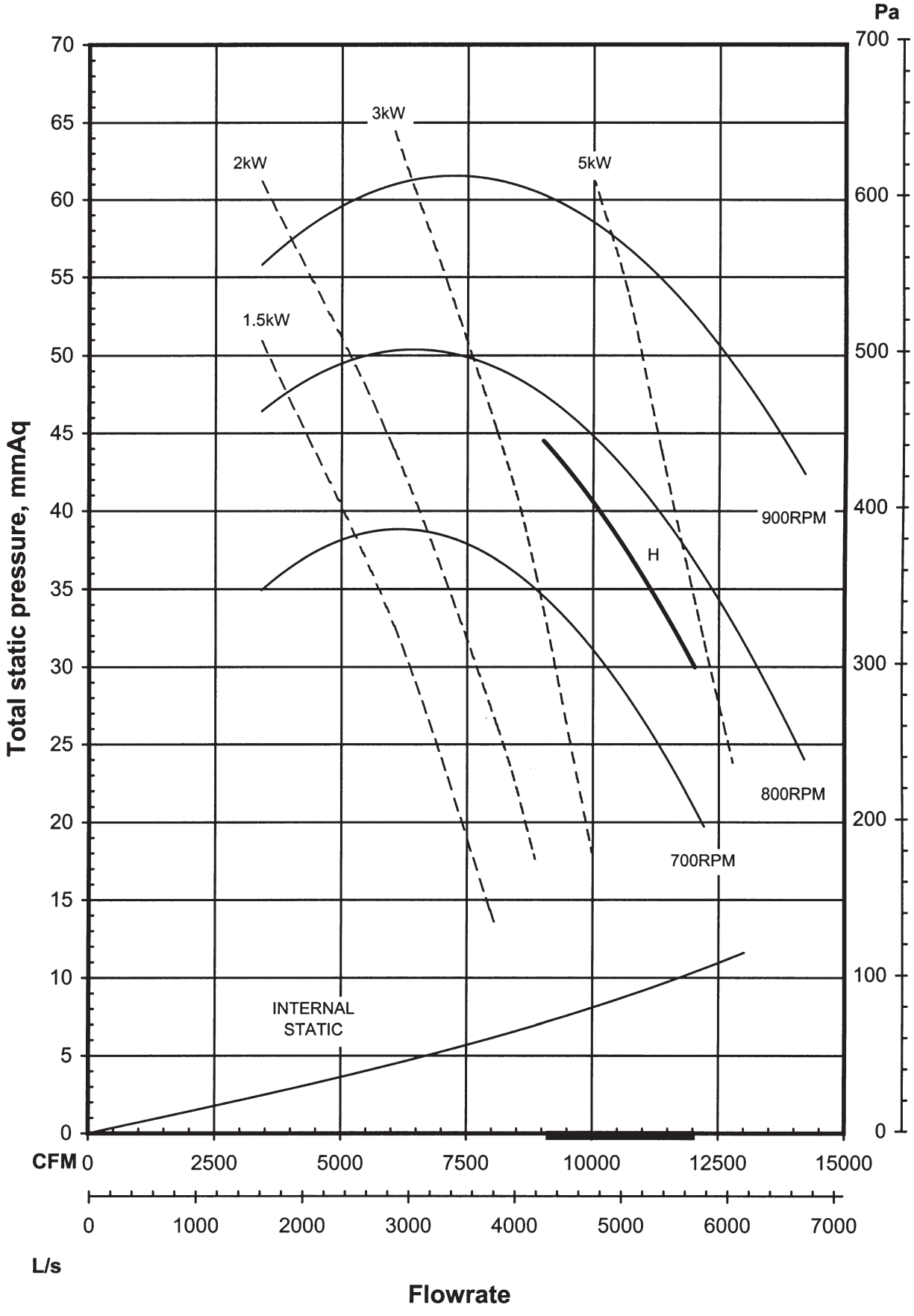
FAN PERFORMANCE CURVE
ADB/ADSB250BR



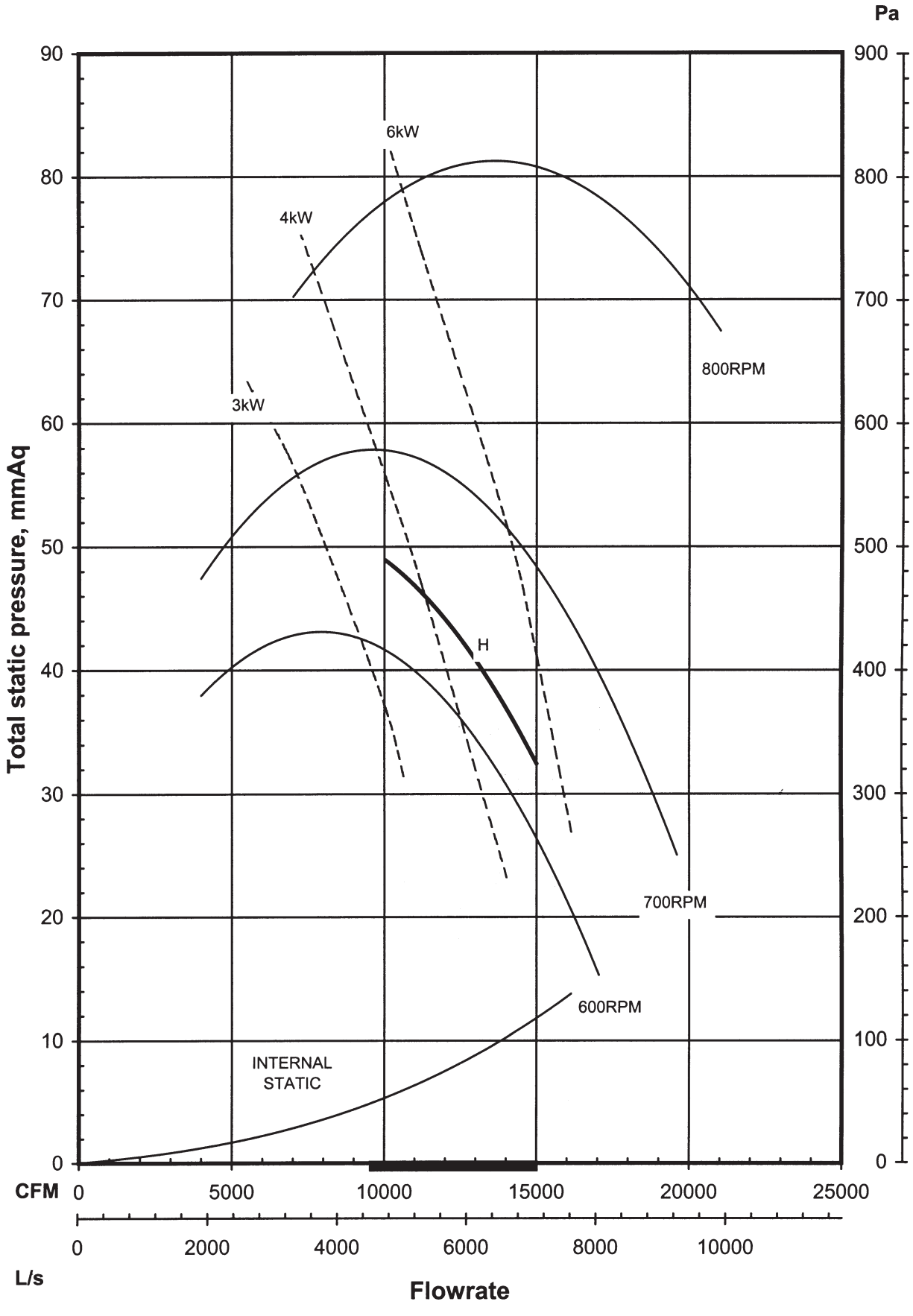
FAN PERFORMANCE CURVE
ADB/ADSB300BR



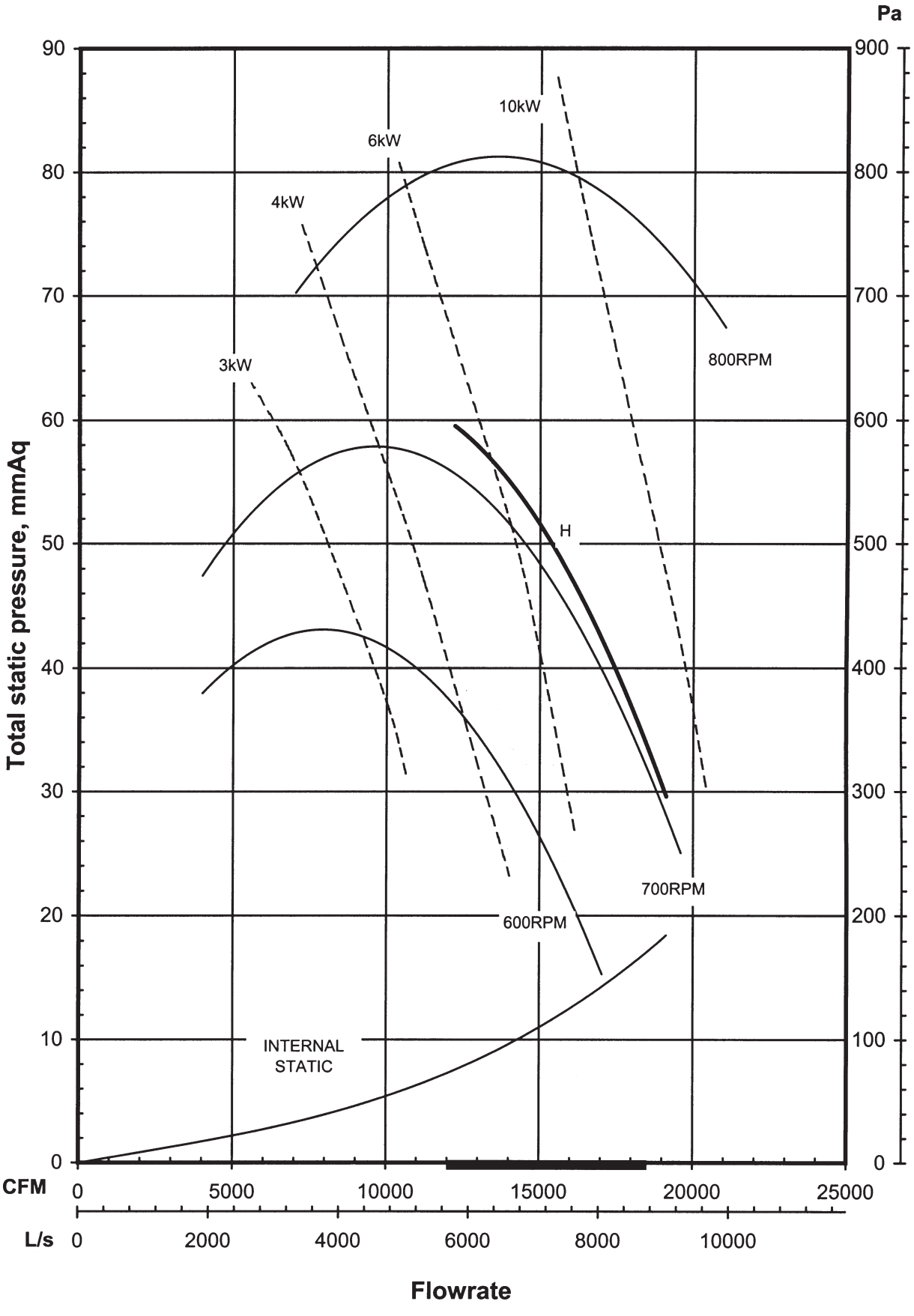
FAN PERFORMANCE CURVE
ADB/ADSB350BR



FAN PERFORMANCE CURVE
ADB/ADSB400BR



FAN PERFORMANCE CURVE
ADB/ADSB500BR



6. ENGINEERING AND PHYSICAL DATA

General Data - Heatpump

MODEL	**INDOOR UNIT**				**ADB75BR**
	OUTDOOR UNIT				**AMC75CR**
NOMINAL COOLING CAPACITY				**Btu/h**	74,000
				W	21,688
NOMINAL HEATING CAPACITY				**Btu/h**	74,000
				W	21,688
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	8,500
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	9,100
NOMINAL RUNNING CURRENT (COOLING)				**A**	14.2
NOMINAL RUNNING CURRENT (HEATING)				**A**	14.5
POWER SOURCE				**V/Ph/Hz**	380~415 / 3 / 50
EER				**W/W**	2.68
COP				**W/W**	2.49
REFRIGERANT TYPE					R22
REFRIGERANT CONTROL					OUTDOOR TXV
INDOOR UNIT	**CONTROL**	**OPERATION**			WIRED CONTROL
	AIR FLOW		**HIGH**	**l/s / cfm**	1180 / 2500
			MEDIUM	**l/s / cfm**	1003 / 2125
			LOW	**l/s / cfm**	826 / 1750
	EXTERNAL STATIC PRESSURE (H/M)			**Pa / (in.wg.)**	134.8 (0.54) / 89.0 (0.76)
	SOUND PRESSURE LEVEL			**dBA**	56
	UNIT DIMENSION		**HEIGHT**	**mm/in**	572 / 22.51
			WIDTH	**mm/in**	1502 / 59.13
			DEPTH	**mm/in**	761 / 29.96
	PACKING DIMENSION		**HEIGHT**	**mm/in**	762 / 30
			WIDTH	**mm/in**	1605 / 63.19
			DEPTH	**mm/in**	880 / 34.65
	UNIT WEIGHT			**kg/lb**	92 / 202
	CONDENSATE DRAIN SIZE			**mm/in**	25.40 / 1.00
OUTDOOR UNIT	**AIR FLOW**			**l/s / cfm**	2832 / 6000
	SOUND PRESSURE LEVEL			**dBA**	74
	UNIT DIMENSION		**HEIGHT**	**mm/in**	946 / 37.24
			WIDTH	**mm/in**	1300 / 51.18
			DEPTH	**mm/in**	500 / 19.68
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1132 / 44.57
			WIDTH	**mm/in**	1414 / 55.67
			DEPTH	**mm/in**	664 / 26.14
	UNIT WEIGHT			**kg/lb**	145 / 319
	PIPE CONNECTION	**TYPE**			BRAZING
		SIZE	**LIQUID**	**mm/in**	12.70 / ½
			GAS	**mm/in**	25.40 / 1
	REFRIGERANT CHARGE			**kg/lb**	4.60 / 10.14

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94
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°C DB / 23.9°C WB OUTDOOR
b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL		**INDOOR UNIT**			**ADB100BR**
		OUTDOOR UNIT			**AMC100BR**
NOMINAL COOLING CAPACITY				**Btu/h**	98,800
				W	28,957
NOMINAL HEATING CAPACITY				**Btu/h**	96,500
				W	28,283
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	11,067
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	10,325
NOMINAL RUNNING CURRENT (COOLING)				**A**	20.2
NOMINAL RUNNING CURRENT (HEATING)				**A**	19.4
POWER SOURCE				**V/Ph/Hz**	380~415 / 3 / 50
EER				**W/W**	2.74
COP				**W/W**	2.88
REFRIGERANT TYPE					R22
REFRIGERANT CONTROL					OUTDOOR TXV
INDOOR UNIT	**CONTROL**	**OPERATION**			WIRED CONTROL
	AIR FLOW		**HIGH**	**l/s / cfm**	1510 / 3200
			MEDIUM	**l/s / cfm**	1284 / 2720
			LOW	**l/s / cfm**	1057 / 2240
	EXTERNAL STATIC PRESSURE (H/M)			**Pa / (in.wg.)**	99.93 / 0.4
	SOUND PRESSURE LEVEL			**dBA**	57
	UNIT DIMENSION		**HEIGHT**	**mm/in**	572 / 22.51
			WIDTH	**mm/in**	1502 / 59.13
			DEPTH	**mm/in**	761 / 29.96
	PACKING DIMENSION		**HEIGHT**	**mm/in**	762 / 30
			WIDTH	**mm/in**	1650 / 64.96
			DEPTH	**mm/in**	880 / 34.65
	UNIT WEIGHT			**kg/lb**	102 / 224
	CONDENSATE DRAIN SIZE			**mm/in**	25.40 / 1.00
OUTDOOR UNIT	**AIR FLOW**			**l/s / cfm**	2832 / 6000
	SOUND PRESSURE LEVEL			**dBA**	65
	UNIT DIMENSION		**HEIGHT**	**mm/in**	946 / 37.24
			WIDTH	**mm/in**	1116 / 43.93
			DEPTH	**mm/in**	939 / 36.96
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1132 / 44.57
			WIDTH	**mm/in**	1282 / 50.47
			DEPTH	**mm/in**	1112 / 43.78
	UNIT WEIGHT			**kg/lb**	164 / 361
	PIPE CONNECTION	**TYPE**			BRAZING
		SIZE	**LIQUID**	**mm/in**	15.88 / ⅝
			GAS	**mm/in**	28.58 / 1⅛
	REFRIGERANT CHARGE			**kg/lb**	5.60 / 12.35

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b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL		**INDOOR UNIT**			**ADB125CR**
		OUTDOOR UNIT			**AMC125BR**
NOMINAL COOLING CAPACITY				**Btu/h**	116,000
				W	33,998
NOMINAL HEATING CAPACITY				**Btu/h**	120,000
				W	35,170
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	11,148
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	9,476
NOMINAL RUNNING CURRENT (COOLING)				**A**	21.1
NOMINAL RUNNING CURRENT (HEATING)				**A**	19.2
POWER SOURCE				**V/Ph/Hz**	380~415 / 3 / 50
EER				**W/W**	3.35
COP				**W/W**	4.14
REFRIGERANT TYPE					R22
REFRIGERANT CONTROL					OUTDOOR TXV
INDOOR UNIT	**CONTROL**	**OPERATION**			WIRED CONTROL
	AIR FLOW		**HIGH**	**l/s / cfm**	1982 / 4200
	EXTERNAL STATIC PRESSURE (H/M)			**Pa / (in.wg.)**	231.8 / 0.93
	SOUND PRESSURE LEVEL			**dBA**	59
	UNIT DIMENSION		**HEIGHT**	**mm/in**	736 / 28.97
			WIDTH	**mm/in**	1640 / 64.56
			DEPTH	**mm/in**	965 / 37.99
	PACKING DIMENSION		**HEIGHT**	**mm/in**	930 / 36.61
			WIDTH	**mm/in**	1772 / 69.76
			DEPTH	**mm/in**	1047 / 41.22
	UNIT WEIGHT			**kg/lb**	171 / 376
	CONDENSATE DRAIN SIZE			**mm/in**	25.40 / 1.00
OUTDOOR UNIT	**AIR FLOW**			**l/s / cfm**	4248 / 9000
	SOUND PRESSURE LEVEL			**dBA**	65
	UNIT DIMENSION		**HEIGHT**	**mm/in**	946 / 37.24
			WIDTH	**mm/in**	1116 / 43.93
			DEPTH	**mm/in**	939 / 36.96
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1132 / 44.57
			WIDTH	**mm/in**	1282 / 50.47
			DEPTH	**mm/in**	1112 / 43.78
	UNIT WEIGHT			**kg/lb**	169 / 372
	PIPE CONNECTION	**TYPE**			BRAZING
		SIZE	**LIQUID**	**mm/in**	15.88 / ⅝
			GAS	**mm/in**	34.92 / 1⅜
	REFRIGERANT CHARGE			**kg/lb**	6.50 / 14.33

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b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL	**INDOOR UNIT**			**ADB150BR2**
	OUTDOOR UNIT			**AMC75CR x 2**
NOMINAL COOLING CAPACITY			**Btu/h**	148,000
			W	43,376
NOMINAL HEATING CAPACITY			**Btu/h**	148,000
			W	43,376
NOMINAL TOTAL INPUT POWER (COOLING)			**W**	16,970
NOMINAL TOTAL INPUT POWER (HEATING)			**W**	18,170
NOMINAL RUNNING CURRENT (COOLING)			**A**	29.0
NOMINAL RUNNING CURRENT (HEATING)			**A**	29.6
POWER SOURCE			**V/Ph/Hz**	380~415 / 3 / 50
POWER SOURCE			**V/Ph/Hz**	380~415 / 3 / 50
EER			**W/W**	2.73
COP			**W/W**	2.54
REFRIGERANT TYPE				R22
REFRIGERANT CONTROL				OUTDOOR TXV
INDOOR UNIT	**CONTROL**	**OPERATION**		WIRED CONTROL
	AIR FLOW	**HIGH**	**l/s / cfm**	2171 / 4600
	EXTERNAL STATIC PRESSURE		**Pa / in.wg.**	157.1 / 0.63
	SOUND PRESSURE LEVEL		**dBA**	59
	UNIT DIMENSION	**HEIGHT**	**mm/in**	885 / 34.84
		WIDTH	**mm/in**	1640 / 65.54
		DEPTH	**mm/in**	1040 / 40.94
	PACKING DIMENSION	**HEIGHT**	**mm/in**	1154 / 45.43
		WIDTH	**mm/in**	1787 / 70.35
		DEPTH	**mm/in**	1188 / 76.77
	UNIT WEIGHT		**kg/lb**	189 / 416
	CONDENSATE DRAIN SIZE		**mm/in**	25.40 / 1.00
OUTDOOR UNIT	**AIR FLOW**		**l/s / cfm**	2832 / 6000
	SOUND PRESSURE LEVEL		**dBA**	74
	UNIT DIMENSION	**HEIGHT**	**mm/in**	946 / 37.24
		WIDTH	**mm/in**	1300 / 51.18
		DEPTH	**mm/in**	500 / 19.68
	PACKING DIMENSION	**HEIGHT**	**mm/in**	1132 / 44.57
		WIDTH	**mm/in**	1414 / 55.67
		DEPTH	**mm/in**	664 / 26.14
	UNIT WEIGHT		**kg/lb**	145 / 319
	PIPE CONNECTION	**TYPE**		BRAZING
		SIZE **LIQUID**	**mm/in**	12.70 / ½
		GAS	**mm/in**	25.40 / 1
	REFRIGERANT CHARGE		**kg/lb**	4.60 (x2) / 10.14 (x2)

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b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL		**INDOOR UNIT**			**ADB200BR2**
		OUTDOOR UNIT			**AMC100BR x 2**
NOMINAL COOLING CAPACITY				**Btu/h**	197,600
				W	57,913
NOMINAL HEATING CAPACITY				**Btu/h**	193,000
				W	56,565
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	21,264
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	19,780
NOMINAL RUNNING CURRENT (COOLING)				**A**	40.0
NOMINAL RUNNING CURRENT (HEATING)				**A**	38.4
POWER SOURCE				**V/Ph/Hz**	380~415 / 3 / 50
EER				**W/W**	2.93
COP				**W/W**	3.09
REFRIGERANT TYPE					R22
REFRIGERANT CONTROL					OUTDOOR TXV
INDOOR UNIT	**CONTROL**	**OPERATION**			WIRED CONTROL
	AIR FLOW		**HIGH**	**l/s / cfm**	3021 / 6400
	EXTERNAL STATIC PRESSURE			**Pa / in.wg.**	158.2 / 0.64
	SOUND PRESSURE LEVEL			**dBA**	61
	UNIT DIMENSION		**HEIGHT**	**mm/in**	885 / 34.84
			WIDTH	**mm/in**	1894 / 74.56
			DEPTH	**mm/in**	1040 / 40.94
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1154 / 45.43
			WIDTH	**mm/in**	2052 / 80.79
			DEPTH	**mm/in**	1188 / 46.77
	UNIT WEIGHT			**kg/lb**	220 / 485
	CONDENSATE DRAIN SIZE			**mm/in**	25.40 / 1.00
OUTDOOR UNIT	**AIR FLOW**			**l/s / cfm**	2832 / 6000
	SOUND PRESSURE LEVEL			**dBA**	65
	UNIT DIMENSION		**HEIGHT**	**mm/in**	946 / 37.24
			WIDTH	**mm/in**	1116 / 43.93
			DEPTH	**mm/in**	939 / 36.96
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1132 / 44.57
			WIDTH	**mm/in**	1282 / 50.47
			DEPTH	**mm/in**	1112 / 43.78
	UNIT WEIGHT			**kg/lb**	164 / 361
	PIPE CONNECTION	**TYPE**			BRAZING
		SIZE	**LIQUID**	**mm/in**	15.88 / ⅝
			GAS	**mm/in**	28.58 / 1⅛
	REFRIGERANT CHARGE			**kg/lb**	5.60 (x2) / 12.35 (x2)

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b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL		**INDOOR UNIT**			**ADB250BR2**
		OUTDOOR UNIT			**AMC125BR x 2**
NOMINAL COOLING CAPACITY				**Btu/h**	232,000
				W	67,995
NOMINAL HEATING CAPACITY				**Btu/h**	240,000
				W	70,340
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	23,466
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	20,122
NOMINAL RUNNING CURRENT (COOLING)				**A**	43.2
NOMINAL RUNNING CURRENT (HEATING)				**A**	39.4
POWER SOURCE				**V/Ph/Hz**	380~415 / 3 / 50
EER				**W/W**	3.24
COP				**W/W**	3.99
REFRIGERANT TYPE					R22
REFRIGERANT CONTROL					OUTDOOR TXV
INDOOR UNIT	**CONTROL**	**OPERATION**			WIRED CONTROL
	AIR FLOW		**HIGH**	**l/s / cfm**	3776 / 8000
	EXTERNAL STATIC PRESSURE			**Pa / in.wg.**	417.2 / 1.67
	SOUND PRESSURE LEVEL			**dBA**	63
	UNIT DIMENSION		**HEIGHT**	**mm/in**	1231 / 48.46
			WIDTH	**mm/in**	1866 / 73.46
			DEPTH	**mm/in**	1259 / 49.56
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1506 / 59.29
			WIDTH	**mm/in**	2034 / 80.08
			DEPTH	**mm/in**	1412 / 55.59
	UNIT WEIGHT			**kg/lb**	343 / 756
	CONDENSATE DRAIN SIZE			**mm/in**	25.40 / 1.00
OUTDOOR UNIT	**AIR FLOW**			**l/s / cfm**	4248 / 9000
	SOUND PRESSURE LEVEL			**dBA**	65
	UNIT DIMENSION		**HEIGHT**	**mm/in**	946 / 37.24
			WIDTH	**mm/in**	1116 / 43.93
			DEPTH	**mm/in**	939 / 36.96
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1132 / 44.57
			WIDTH	**mm/in**	1282 / 50.47
			DEPTH	**mm/in**	1112 / 43.78
	UNIT WEIGHT			**kg/lb**	169 / 372
	PIPE CONNECTION	**TYPE**			BRAZING
		SIZE	**LIQUID**	**mm/in**	15.88 / 5⁄8
			GAS	**mm/in**	34.92 / 1 3⁄8
	REFRIGERANT CHARGE			**kg/lb**	6.50 (x2) / 14.33 (x2)

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a) COOLING - 26.7°C DB / 19.4°C WB INDOOR AND 35°C DB / 23.9°C WB OUTDOOR
b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL		**INDOOR UNIT**			**ADB300BR3**
		OUTDOOR UNIT			**AMC100BR x 3**
NOMINAL COOLING CAPACITY				**Btu/h**	296,400
				W	86,870
NOMINAL HEATING CAPACITY				**Btu/h**	289,500
				W	84,848
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	31,801
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	29,575
NOMINAL RUNNING CURRENT (COOLING)				**A**	59.6
NOMINAL RUNNING CURRENT (HEATING)				**A**	57.2
POWER SOURCE				**V/Ph/Hz**	380~415 / 3 / 50
EER				**W/W**	3.00
COP				**W/W**	3.17
REFRIGERANT TYPE					R22
REFRIGERANT CONTROL					OUTDOOR TXV
INDOOR UNIT	**CONTROL**	**OPERATION**			WIRED CONTROL
	AIR FLOW		**HIGH**	**l/s / cfm**	4248 / 9000
	EXTERNAL STATIC PRESSURE			**Pa / in.wg.**	325.5 / 1.31
	SOUND PRESSURE LEVEL			**dBA**	66
	UNIT DIMENSION		**HEIGHT**	**mm/in**	1231 / 48.46
			WIDTH	**mm/in**	1866 / 73.46
			DEPTH	**mm/in**	1259 / 49.56
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1506 / 59.29
			WIDTH	**mm/in**	2034 / 80.08
			DEPTH	**mm/in**	1412 / 55.59
	UNIT WEIGHT			**kg/lb**	346 / 762
	CONDENSATE DRAIN SIZE			**mm/in**	25.40 / 1.00
OUTDOOR UNIT	**AIR FLOW**			**l/s / cfm**	2832 / 6000
	SOUND PRESSURE LEVEL			**dBA**	65
	UNIT DIMENSION		**HEIGHT**	**mm/in**	946 / 37.24
			WIDTH	**mm/in**	1116 / 43.93
			DEPTH	**mm/in**	939 / 36.96
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1132 / 44.57
			WIDTH	**mm/in**	1282 / 50.47
			DEPTH	**mm/in**	1112 / 43.78
	UNIT WEIGHT			**kg/lb**	164 / 361
	PIPE CONNECTION	**TYPE**			BRAZING
		SIZE	**LIQUID**	**mm/in**	15.88 / ⅝
			GAS	**mm/in**	28.58 / 1⅛
	REFRIGERANT CHARGE			**kg/lb**	5.60 (x3) / 12.35 (x3)

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94
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°C DB / 23.9°C WB OUTDOOR
b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL					ADB350BR3	
	INDOOR UNIT					
	OUTDOOR UNIT				AMC100BR x 1	AMC125BR x 2
NOMINAL COOLING CAPACITY				Btu/h	330,800	
				W	96,952	
NOMINAL HEATING CAPACITY				Btu/h	336,500	
				W	98,623	
NOMINAL TOTAL INPUT POWER (COOLING)				W	33,873	
NOMINAL TOTAL INPUT POWER (HEATING)				W	29,787	
NOMINAL RUNNING CURRENT (COOLING)				A	62.8	
NOMINAL RUNNING CURRENT (HEATING)				A	58.2	
POWER SOURCE				V/Ph/Hz	380~415 / 3 / 50	
EER				W/W	3.17	
COP				W/W	3.72	
REFRIGERANT TYPE					R22	
REFRIGERANT CONTROL					OUTDOOR TXV	
INDOOR UNIT	CONTROL	OPERATION			WIRED CONTROL	
	AIR FLOW		HIGH	l/s / cfm	4956 / 10500	
	EXTERNAL STATIC PRESSURE			Pa / in.wg.	289.9 / 1.16	
	SOUND PRESSURE LEVEL			dBA	66	
	UNIT DIMENSION		HEIGHT	mm/in	1486 / 58.50	
			WIDTH	mm/in	2122 / 83.54	
			DEPTH	mm/in	1259 / 49.56	
	PACKING DIMENSION		HEIGHT	mm/in	1766 / 69.53	
			WIDTH	mm/in	2279 / 89.72	
			DEPTH	mm/in	1412 / 55.59	
	UNIT WEIGHT			kg/lb	440 / 970	
	CONDENSATE DRAIN SIZE			mm/in	25.40 / 1.00	
OUTDOOR UNIT	AIR FLOW			l/s / cfm	2832 / 6000	4248 / 9000
	SOUND PRESSURE LEVEL			dBA	65	65
	UNIT DIMENSION		HEIGHT	mm/in	946 / 37.24	946 / 37.24
			WIDTH	mm/in	1116 / 43.93	1116 / 43.93
			DEPTH	mm/in	939 / 36.96	939 / 36.96
	PACKING DIMENSION		HEIGHT	mm/in	1132 / 44.57	
			WIDTH	mm/in	1282 / 50.47	
			DEPTH	mm/in	1112 / 43.78	
	UNIT WEIGHT			kg/lb	164 / 361	169 / 372
	PIPE CONNECTION	TYPE			BRAZING	BRAZING
		SIZE	LIQUID	mm/in	15.88 / 5/8	15.88 / 5/8
			GAS	mm/in	28.58 / 1 1/8	34.92 / 1 3/8
	REFRIGERANT CHARGE			kg/lb	5.60 / 12.35	6.50 (x2) / 14.33 (x2)

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94
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°C DB / 23.9°C WB OUTDOOR
b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL	**INDOOR UNIT**			**ADB400BR4**
	OUTDOOR UNIT			**AMC100BR x 4**
NOMINAL COOLING CAPACITY			**Btu/h**	395,200
			W	115,826
NOMINAL HEATING CAPACITY			**Btu/h**	386,000
			W	113,130
NOMINAL TOTAL INPUT POWER (COOLING)			**W**	41,903
NOMINAL TOTAL INPUT POWER (HEATING)			**W**	38,935
NOMINAL RUNNING CURRENT (COOLING)			**A**	78.7
NOMINAL RUNNING CURRENT (HEATING)			**A**	75.5
POWER SOURCE			**V/Ph/Hz**	380~415 / 3 / 50
EER			**W/W**	3.04
COP			**W/W**	3.22
REFRIGERANT TYPE				R22
REFRIGERANT CONTROL				OUTDOOR TXV
INDOOR UNIT	**CONTROL**	**OPERATION**		WIRED CONTROL
	AIR FLOW	**HIGH**	**l/s / cfm**	5664 / 12000
	EXTERNAL STATIC PRESSURE (H/M/L)		**Pa / in.wg.**	356.7 / 1.43
	SOUND PRESSURE LEVEL (H/M/L)		**dBA**	66
	UNIT DIMENSION	**HEIGHT**	**mm/in**	1486 / 58.50
		WIDTH	**mm/in**	2274 / 89.52
		DEPTH	**mm/in**	1526 / 60.07
	PACKING DIMENSION	**HEIGHT**	**mm/in**	1766 / 69.53
		WIDTH	**mm/in**	2431 / 95.81
		DEPTH	**mm/in**	1684 / 66.3
	UNIT WEIGHT		**kg/lb**	513 / 1130
	CONDENSATE DRAIN SIZE		**mm/in**	25.40 / 1.00
OUTDOOR UNIT	**AIR FLOW**		**l/s / cfm**	2832 / 6000
	SOUND PRESSURE LEVEL		**dBA**	65
	UNIT DIMENSION	**HEIGHT**	**mm/in**	946 / 37.24
		WIDTH	**mm/in**	1116 / 43.93
		DEPTH	**mm/in**	939 / 36.96
	PACKING DIMENSION	**HEIGHT**	**mm/in**	1132 / 44.57
		WIDTH	**mm/in**	1282 / 50.47
		DEPTH	**mm/in**	1112 / 43.78
	UNIT WEIGHT		**kg/lb**	164 / 361
	PIPE CONNECTION	**TYPE**		BRAZING
		SIZE **LIQUID**	**mm/in**	15.88 / ⅝
		GAS	**mm/in**	28.58 / 1⅛
	REFRIGERANT CHARGE		**kg/lb**	5.60 (x4) / 12.35 (x4)

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94
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°C DB / 23.9°C WB OUTDOOR
b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL		**INDOOR UNIT**			**ADB500BR4**
		OUTDOOR UNIT			**AMC125BR x 4**
NOMINAL COOLING CAPACITY				**Btu/h**	464,000
				W	135,991
NOMINAL HEATING CAPACITY				**Btu/h**	480,000
				W	140,680
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	48,227
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	41,539
NOMINAL RUNNING CURRENT (COOLING)				**A**	88.4
NOMINAL RUNNING CURRENT (HEATING)				**A**	80.8
POWER SOURCE				**V/Ph/Hz**	380~415 / 3 / 50
EER				**W/W**	3.21
COP				**W/W**	3.95
REFRIGERANT TYPE					R22
REFRIGERANT CONTROL					OUTDOOR TXV
INDOOR UNIT	**CONTROL**	**OPERATION**			WIRED CONTROL
	AIR FLOW		**HIGH**	**l/s / cfm**	7080 / 15000
	EXTERNAL STATIC PRESSURE (H/M/L)			**Pa / in.wg.**	393.7 / 1.58
	SOUND PRESSURE LEVEL (H/M/L)			**dBA**	68
	UNIT DIMENSION		**HEIGHT**	**mm/in**	1486 / 58.50
			WIDTH	**mm/in**	2274 / 89.52
			DEPTH	**mm/in**	1526 / 60.07
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1766 / 69.53
			WIDTH	**mm/in**	2431 / 95.81
			DEPTH	**mm/in**	1684 / 66.3
	UNIT WEIGHT			**kg/lb**	606 / 1335
	CONDENSATE DRAIN SIZE			**mm/in**	25.40 / 1.00
OUTDOOR UNIT	**AIR FLOW**			**l/s / cfm**	4248 / 9000
	SOUND PRESSURE LEVEL			**dBA**	65
	UNIT DIMENSION		**HEIGHT**	**mm/in**	946 / 37.24
			WIDTH	**mm/in**	1116 / 43.93
			DEPTH	**mm/in**	939 / 36.96
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1132 / 44.57
			WIDTH	**mm/in**	1282 / 50.47
			DEPTH	**mm/in**	1112 / 43.78
	UNIT WEIGHT			**kg/lb**	169 / 372
	PIPE CONNECTION	**TYPE**			BRAZING
		SIZE	**LIQUID**	**mm/in**	15.88 / 5⁄8
			GAS	**mm/in**	34.92 / 1 3⁄8
	REFRIGERANT CHARGE			**kg/lb**	6.50 (x4) / 14.33 (x4)

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
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b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL		**INDOOR UNIT**			**ADSB200BR2**
		OUTDOOR UNIT			**AMC100BR x 2**
NOMINAL COOLING CAPACITY				**Btu/h**	197,600
				W	57,913
NOMINAL HEATING CAPACITY				**Btu/h**	193,000
				W	56,565
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	21,264
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	19,780
NOMINAL RUNNING CURRENT (COOLING)				**A**	40.0
NOMINAL RUNNING CURRENT (HEATING)				**A**	38.4
POWER SOURCE				**V/Ph/Hz**	380~415 / 3 / 50
EER				**W/W**	2.93
COP				**W/W**	3.09
REFRIGERANT TYPE					R22
REFRIGERANT CONTROL					OUTDOOR TXV
INDOOR UNIT	**CONTROL**	**OPERATION**			WIRED CONTROL
	AIR FLOW		**HIGH**	**l/s / cfm**	3021 / 6400
	EXTERNAL STATIC PRESSURE			**Pa / in.wg.**	158.2 / 0.64
	SOUND PRESSURE LEVEL			**dBA**	58
	UNIT DIMENSION		**HEIGHT**	**mm/in**	1015 / 39.96
			WIDTH	**mm/in**	1904 / 74.96
			DEPTH	**mm/in**	1107.5 / 43.60
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1206 / 47.48
			WIDTH	**mm/in**	2084 / 82.14
			DEPTH	**mm/in**	1188 / 46.77
	UNIT WEIGHT			**kg/lb**	220 / 485
	CONDENSATE DRAIN SIZE			**mm/in**	25.40 / 1.00
OUTDOOR UNIT	**AIR FLOW**			**l/s / cfm**	2832 / 6000
	SOUND PRESSURE LEVEL			**dBA**	65
	UNIT DIMENSION		**HEIGHT**	**mm/in**	946 / 37.24
			WIDTH	**mm/in**	1116 / 43.93
			DEPTH	**mm/in**	939 / 36.96
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1132 / 44.57
			WIDTH	**mm/in**	1282 / 50.47
			DEPTH	**mm/in**	1112 / 43.78
	UNIT WEIGHT			**kg/lb**	164 / 361
	PIPE CONNECTION	**TYPE**			BRAZING
		SIZE	**LIQUID**	**mm/in**	15.88 / ⅝
			GAS	**mm/in**	28.58 / 1⅛
	REFRIGERANT CHARGE			**kg/lb**	5.60 (x2) / 12.35 (x2)

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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°C DB / 23.9°C WB OUTDOOR
b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL		**INDOOR UNIT**			**ADSB250BR2**
		OUTDOOR UNIT			**AMC125BR x 2**
NOMINAL COOLING CAPACITY				**Btu/h**	232,000
				W	67,995
NOMINAL HEATING CAPACITY				**Btu/h**	240,000
				W	70,340
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	23,466
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	20,122
NOMINAL RUNNING CURRENT (COOLING)				**A**	43.2
NOMINAL RUNNING CURRENT (HEATING)				**A**	39.4
POWER SOURCE				**V/Ph/Hz**	380~415 / 3 / 50
EER				**W/W**	3.24
COP				**W/W**	3.99
REFRIGERANT TYPE					R22
REFRIGERANT CONTROL					OUTDOOR TXV
INDOOR UNIT	**CONTROL**	**OPERATION**			WIRED CONTROL
	AIR FLOW		**HIGH**	**l/s / cfm**	3776 / 8000
	EXTERNAL STATIC PRESSURE			**Pa / in.wg.**	417.2 / 1.67
	SOUND PRESSURE LEVEL			**dBA**	60
	UNIT DIMENSION		**HEIGHT**	**mm/in**	1378 / 54.25
			WIDTH	**mm/in**	1933.7 / 76.13
			DEPTH	**mm/in**	1243.5 / 48.95
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1590 / 62.59
			WIDTH	**mm/in**	2134 / 84.01
			DEPTH	**mm/in**	1437 / 56.57
	UNIT WEIGHT			**kg/lb**	343 / 756
	CONDENSATE DRAIN SIZE			**mm/in**	25.40 / 1.00
OUTDOOR UNIT	**AIR FLOW**			**l/s / cfm**	4248 / 9000
	SOUND PRESSURE LEVEL			**dBA**	65
	UNIT DIMENSION		**HEIGHT**	**mm/in**	946 / 37.24
			WIDTH	**mm/in**	1116 / 43.93
			DEPTH	**mm/in**	939 / 36.96
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1132 / 44.57
			WIDTH	**mm/in**	1282 / 50.47
			DEPTH	**mm/in**	1112 / 43.78
	UNIT WEIGHT			**kg/lb**	169 / 372
	PIPE CONNECTION	**TYPE**			BRAZING
		SIZE	**LIQUID**	**mm/in**	15.88 / 5⁄8
			GAS	**mm/in**	34.92 / 1 3⁄8
	REFRIGERANT CHARGE			**kg/lb**	6.50 (x2) / 14.33 (x2)

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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°C DB / 23.9°C WB OUTDOOR
b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL		**INDOOR UNIT**			**ADSB300BR3**
		OUTDOOR UNIT			**AMC100BR x 3**
NOMINAL COOLING CAPACITY				**Btu/h**	296,400
				W	86,870
NOMINAL HEATING CAPACITY				**Btu/h**	289,500
				W	84,848
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	31,801
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	29,575
NOMINAL RUNNING CURRENT (COOLING)				**A**	59.6
NOMINAL RUNNING CURRENT (HEATING)				**A**	57.2
POWER SOURCE				**V/Ph/Hz**	380~415 / 3 / 50
EER				**W/W**	3.00
COP				**W/W**	3.17
REFRIGERANT TYPE					R22
REFRIGERANT CONTROL					OUTDOOR TXV
INDOOR UNIT	**CONTROL**	**OPERATION**			WIRED CONTROL
	AIR FLOW		**HIGH**	**l/s / cfm**	4248 / 9000
	EXTERNAL STATIC PRESSURE			**Pa / in.wg.**	325.5 / 1.31
	SOUND PRESSURE LEVEL			**dBA**	63
	UNIT DIMENSION		**HEIGHT**	**mm/in**	1378 / 54.25
			WIDTH	**mm/in**	1933.7 / 46.13
			DEPTH	**mm/in**	1243.5 / 48.95
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1590 / 62.59
			WIDTH	**mm/in**	2134 / 84.01
			DEPTH	**mm/in**	1437 / 56.57
	UNIT WEIGHT			**kg/lb**	346 / 762
	CONDENSATE DRAIN SIZE			**mm/in**	25.40 / 1.00
OUTDOOR UNIT	**AIR FLOW**			**l/s / cfm**	2832 / 6000
	SOUND PRESSURE LEVEL			**dBA**	65
	UNIT DIMENSION		**HEIGHT**	**mm/in**	946 / 37.24
			WIDTH	**mm/in**	1116 / 43.93
			DEPTH	**mm/in**	939 / 36.96
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1132 / 44.57
			WIDTH	**mm/in**	1282 / 50.47
			DEPTH	**mm/in**	1112 / 43.78
	UNIT WEIGHT			**kg/lb**	164 / 361
	PIPE CONNECTION	**TYPE**			BRAZING
		SIZE	**LIQUID**	**mm/in**	15.88 / ⅝
			GAS	**mm/in**	28.58 / 1⅛
	REFRIGERANT CHARGE			**kg/lb**	5.60 (x3) / 12.35 (x3)

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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°C DB / 23.9°C WB OUTDOOR
b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL					ADSB350BR3	
	INDOOR UNIT					
	OUTDOOR UNIT				AMC100BR x 1	AMC125BR x 2
NOMINAL COOLING CAPACITY				Btu/h	330,800	
				W	96,952	
NOMINAL HEATING CAPACITY				Btu/h	336,500	
				W	98,623	
NOMINAL TOTAL INPUT POWER (COOLING)				W	33,873	
NOMINAL TOTAL INPUT POWER (HEATING)				W	29,787	
NOMINAL RUNNING CURRENT (COOLING)				A	62.8	
NOMINAL RUNNING CURRENT (HEATING)				A	58.2	
POWER SOURCE				V/Ph/Hz	380~415 / 3 / 50	
EER				W/W	3.17	
COP				W/W	3.72	
REFRIGERANT TYPE					R22	
REFRIGERANT CONTROL					OUTDOOR TXV	
INDOOR UNIT	CONTROL	OPERATION			WIRED CONTROL	
	AIR FLOW		HIGH	l/s / cfm	4956 / 10500	
	EXTERNAL STATIC PRESSURE			Pa / in.wg.	289.9 / 1.16	
	SOUND PRESSURE LEVEL			dBA	63	
	UNIT DIMENSION		HEIGHT	mm/in	1652 / 65.03	
			WIDTH	mm/in	2142.3 / 84.34	
			DEPTH	mm/in	1335 / 52.55	
	PACKING DIMENSION		HEIGHT	mm/in	1868 / 73.54	
			WIDTH	mm/in	2370 / 93.30	
			DEPTH	mm/in	1537.4 / 60.52	
	UNIT WEIGHT			kg/lb	440 / 970	
	CONDENSATE DRAIN SIZE			mm/in	25.40 / 1.00	
OUTDOOR UNIT	AIR FLOW			l/s / cfm	2832 / 6000	4248 / 9000
	SOUND PRESSURE LEVEL			dBA	65	65
	UNIT DIMENSION		HEIGHT	mm/in	946 / 37.24	946 / 37.24
			WIDTH	mm/in	1116 / 43.93	1116 / 43.93
			DEPTH	mm/in	939 / 36.96	939 / 36.96
	PACKING DIMENSION		HEIGHT	mm/in	1132 / 44.57	1132 / 44.57
			WIDTH	mm/in	1282 / 50.47	1282 / 50.47
			DEPTH	mm/in	1112 / 43.78	1112 / 43.78
	UNIT WEIGHT			kg/lb	164 / 361	169 / 372
	PIPE CONNECTION	TYPE			BRAZING	BRAZING
		SIZE	LIQUID	mm/in	15.88 / ⅝	15.88 / ⅝
			GAS	mm/in	28.58 / 1⅛	34.92 / 1⅜
	REFRIGERANT CHARGE			kg/lb	5.60 / 12.35	6.50 (x2) / 14.33 (x2)

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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°C DB / 23.9°C WB OUTDOOR
b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL		**INDOOR UNIT**			**ADSB400BR4**
		OUTDOOR UNIT			**AMC100BR x 4**
NOMINAL COOLING CAPACITY				**Btu/h**	395,200
				W	115,826
NOMINAL HEATING CAPACITY				**Btu/h**	386,000
				W	113,130
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	41,903
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	38,935
NOMINAL RUNNING CURRENT (COOLING)				**A**	78.7
NOMINAL RUNNING CURRENT (HEATING)				**A**	75.5
POWER SOURCE				**V/Ph/Hz**	380~415 / 3 / 50
EER				**W/W**	3.04
COP				**W/W**	3.22
REFRIGERANT TYPE					R22
REFRIGERANT CONTROL					OUTDOOR TXV
INDOOR UNIT	**CONTROL**	**OPERATION**			WIRED CONTROL
	AIR FLOW		**HIGH**	**l/s / cfm**	5664 / 12000
	EXTERNAL STATIC PRESSURE (H/M/L)			**Pa / in.wg.**	356.7 / 1.43
	SOUND PRESSURE LEVEL (H/M/L)			**dBA**	64
	UNIT DIMENSION		**HEIGHT**	**mm/in**	1610 / 63.38
			WIDTH	**mm/in**	2320.3 / 91.35
			DEPTH	**mm/in**	1438 / 56.61
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1850 / 72.83
			WIDTH	**mm/in**	2431 / 95.71
			DEPTH	**mm/in**	1734 / 68.27
	UNIT WEIGHT			**kg/lb**	513 / 1130
	CONDENSATE DRAIN SIZE			**mm/in**	25.40 / 1.00
OUTDOOR UNIT	**AIR FLOW**			**l/s / cfm**	2832 / 6000
	SOUND PRESSURE LEVEL			**dBA**	65
	UNIT DIMENSION		**HEIGHT**	**mm/in**	946 / 37.24
			WIDTH	**mm/in**	1116 / 43.93
			DEPTH	**mm/in**	939 / 36.96
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1132 / 44.57
			WIDTH	**mm/in**	1282 / 50.47
			DEPTH	**mm/in**	1112 / 43.78
	UNIT WEIGHT			**kg/lb**	164 / 361
	PIPE CONNECTION	**TYPE**			BRAZING
		SIZE	**LIQUID**	**mm/in**	15.88 / ⅝
			GAS	**mm/in**	28.58 / 1⅛
	REFRIGERANT CHARGE			**kg/lb**	5.60 (x4) / 12.35 (x4)

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94
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°C DB / 23.9°C WB OUTDOOR
b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

MODEL		**INDOOR UNIT**			**ADSB500BR4**
		OUTDOOR UNIT			**AMC125BR x 4**
NOMINAL COOLING CAPACITY				**Btu/h**	464,000
				W	135,991
NOMINAL HEATING CAPACITY				**Btu/h**	480,000
				W	140,680
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	48,227
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	41,539
NOMINAL RUNNING CURRENT (COOLING)				**A**	88.4
NOMINAL RUNNING CURRENT (HEATING)				**A**	80.8
POWER SOURCE				**V/Ph/Hz**	380~415 / 3 / 50
EER				**W/W**	3.21
COP				**W/W**	3.95
REFRIGERANT TYPE					R22
REFRIGERANT CONTROL					OUTDOOR TXV
INDOOR UNIT	**CONTROL**	**OPERATION**			WIRED CONTROL
	AIR FLOW		**HIGH**	**l/s / cfm**	7080 / 15000
	EXTERNAL STATIC PRESSURE (H/M/L)			**Pa / in.wg.**	393.7 / 1.58
	SOUND PRESSURE LEVEL (H/M/L)			**dBA**	65
	UNIT DIMENSION		**HEIGHT**	**mm/in**	1610 / 63.38
			WIDTH	**mm/in**	2320.3 / 91.35
			DEPTH	**mm/in**	1438 / 56.61
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1850 / 72.83
			WIDTH	**mm/in**	2431 / 95.71
			DEPTH	**mm/in**	1734 / 68.27
	UNIT WEIGHT			**kg/lb**	606 / 1335
	CONDENSATE DRAIN SIZE			**mm/in**	25.40 / 1.00
OUTDOOR UNIT	**AIR FLOW**			**l/s / cfm**	4248 / 9000
	SOUND PRESSURE LEVEL			**dBA**	65
	UNIT DIMENSION		**HEIGHT**	**mm/in**	946 / 37.24
			WIDTH	**mm/in**	1116 / 43.93
			DEPTH	**mm/in**	939 / 36.96
	PACKING DIMENSION		**HEIGHT**	**mm/in**	1132 / 44.57
			WIDTH	**mm/in**	1282 / 50.47
			DEPTH	**mm/in**	1112 / 43.78
	UNIT WEIGHT			**kg/lb**	169 / 372
	PIPE CONNECTION	**TYPE**			BRAZING
		SIZE	**LIQUID**	**mm/in**	15.88 / 5⁄8
			GAS	**mm/in**	34.92 / 1 3⁄8
	REFRIGERANT CHARGE			**kg/lb**	6.50 (x4) / 14.33 (x4)

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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°C DB / 23.9°C WB OUTDOOR
b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

Components Data - Heatpump

MODEL	**INDOOR UNIT**				**ADB75BR**
	OUTDOOR UNIT				**AMC75CR**
INDOOR FAN	**TYPE**				CENTRIFUGAL
	QUANTITY				1
	MATERIAL				ZINC COATED STEEL
	DRIVE				DIRECT
	DIAMETER			**mm/in**	282.70 / 11.13
	LENGTH			**mm/in**	203.00 / 8.00
INDOOR FAN MOTOR	**TYPE**				PERMANENT SPLIT CAPACITOR
	QUANTITY				2
	INDEX OF PROTECTION (IP)				IP20
OUTDOOR FAN	**TYPE**				PROPELLER
	QUANTITY				1
	MATERIAL				ALUMINIUM
	DRIVE				DIRECT
	DIAMETER			**mm/in**	660.40 / 26
OUTDOOR FAN MOTOR	**TYPE**				INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
COMPRESSOR	**TYPE**				SCROLL
	OIL TYPE				SONTEX 200LT
	OIL AMOUNT			**cm^3 / fl.oz.**	2513.8 / 85
INDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS PLAIN COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	0.54 / 5.82
		ROW			3
		FIN PER INCH			12
OUTDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS BARE COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.23 / 13.25
		ROW			2
		FIN PER INCH			14
AIR QUALITY	**FILTER**	**TYPE**			WASHABLE SARAN NET
		QUANTITY		**pc**	2
		SIZE	**LENGTH**	**mm/in**	622 / 24.5
			WIDTH	**mm/in**	433 / 17.0
			THICKNESS	**mm/in**	12.70 / ½
CASING	**INDOOR UNIT**		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY
	OUTDOOR UNIT		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY

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Components Data - Heatpump

MODEL	**INDOOR UNIT**				**ADB100BR**
	OUTDOOR UNIT				**AMC100BR**
INDOOR FAN	**TYPE**				CENTRIFUGAL
	QUANTITY				1
	MATERIAL				ZINC COATED STEEL
	DRIVE				DIRECT
	DIAMETER			**mm/in**	282.70 / 11.13
	LENGTH			**mm/in**	203.00 / 8.00
INDOOR FAN MOTOR	**TYPE**				PERMANENT SPLIT CAPACITOR
	QUANTITY				2
	INDEX OF PROTECTION (IP)				IP20
OUTDOOR FAN	**TYPE**				PROPELLER
	QUANTITY				1
	MATERIAL				ALUMINIUM
	DRIVE				DIRECT
	DIAMETER			**mm/in**	660.40 / 26
OUTDOOR FAN MOTOR	**TYPE**				INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
COMPRESSOR	**TYPE**				SCROLL
	OIL TYPE				SONTEX 200LT
	OIL AMOUNT			**cm^3 / fl.oz.**	3253.1 / 110
INDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS PLAIN COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	0.54 / 5.82
		ROW			4
		FIN PER INCH			12
OUTDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS BARE COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.76 / 19.00
		ROW			2
		FIN PER INCH			12
AIR QUALITY	**FILTER**	**TYPE**			WASHABLE SARAN NET
		QUANTITY		**pc**	2
		SIZE	**LENGTH**	**mm/in**	622 / 24.5
			WIDTH	**mm/in**	433 / 17.0
			THICKNESS	**mm/in**	12.70 / ½
CASING	**INDOOR UNIT**		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY
	OUTDOOR UNIT		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY

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Components Data - Heatpump

MODEL	**INDOOR UNIT**				**ADB125CR**
	OUTDOOR UNIT				**AMC125BR**
INDOOR FAN	**TYPE**				CENTRIFUGAL
	QUANTITY				1
	MATERIAL				ZINC COATED STEEL
	DRIVE				BELT DRIVEN
	DIAMETER			**mm/in**	394.97 / 15.55
	LENGTH			**mm/in**	381.00 / 15.00
INDOOR FAN MOTOR	**TYPE**				SQUIRREL CAGE INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
OUTDOOR FAN	**TYPE**				PROPELLER
	QUANTITY				1
	MATERIAL				ALUMINIUM
	DRIVE				DIRECT
	DIAMETER			**mm/in**	762.00 / 30
OUTDOOR FAN MOTOR	**TYPE**				INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
COMPRESSOR	**TYPE**				SCROLL
	OIL TYPE				SONTEX 200LT
	OIL AMOUNT			**cm^3 / fl.oz.**	3253.1 / 110
INDOOR COIL	**TUBE**	**MATERIAL**			INNER GROOVE
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.36 / 0.014
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	0.79 / 8.60
		ROW			4
		FIN PER INCH			12
OUTDOOR COIL	**TUBE**	**MATERIAL**			INNER GROOVE
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.36 / 0.014
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.76 / 19.00
		ROW			2
		FIN PER INCH			18
AIR QUALITY	**FILTER**	**TYPE**			WASHABLE VILEDON
		QUANTITY		**pc**	3
		SIZE	**LENGTH**	**mm/in**	457 / 17.99
			WIDTH	**mm/in**	589 / 23.19
			THICKNESS	**mm/in**	50.8 / 2.00
CASING	**INDOOR UNIT**		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY
	OUTDOOR UNIT		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY

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Components Data - Heatpump

MODEL	**INDOOR UNIT**				**ADB150BR2**
	OUTDOOR UNIT				**AMC75CR x 2**
INDOOR FAN	**TYPE**				CENTRIFUGAL
	QUANTITY				1
	MATERIAL				ZINC COATED STEEL
	DRIVE				BELT DRIVEN
	DIAMETER			**mm/in**	394.97 / 15.55
	LENGTH			**mm/in**	381.00 / 15.00
INDOOR FAN MOTOR	**TYPE**				SQUIRREL CAGE INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
OUTDOOR FAN	**TYPE**				PROPELLER
	QUANTITY				1
	MATERIAL				ALUMINIUM
	DRIVE				DIRECT
	DIAMETER			**mm/in**	660.40 / 26
OUTDOOR FAN MOTOR	**TYPE**				INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
COMPRESSOR	**TYPE**				SCROLL
	OIL TYPE				SONTEX 200LT
	OIL AMOUNT			**cm^3 / fl.oz.**	2513.8 / 85
INDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS PLAIN COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.00 / 10.82
		ROW			4
		FIN PER INCH			12
OUTDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS BARE COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.23 / 13.25
		ROW			2
		FIN PER INCH			14
AIR QUALITY	**FILTER**	**TYPE**			WASHABLE VILEDON
		QUANTITY		**pc**	3
		SIZE	**LENGTH**	**mm/in**	457 / 17.99
			WIDTH	**mm/in**	433 / 23.19
			THICKNESS	**mm/in**	50.8 / 2.00
CASING	**INDOOR UNIT**		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY
	OUTDOOR UNIT		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY

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Components Data - Heatpump

MODEL	**INDOOR UNIT**				**ADB200BR2**
	OUTDOOR UNIT				**AMC100BR x 2**
INDOOR FAN	**TYPE**				CENTRIFUGAL
	QUANTITY				1
	MATERIAL				ZINC COATED STEEL
	DRIVE				BELT DRIVEN
	DIAMETER			**mm/in**	394.97 / 15.55
	LENGTH			**mm/in**	381.00 / 15.00
INDOOR FAN MOTOR	**TYPE**				SQUIRREL CAGE INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
OUTDOOR FAN	**TYPE**				PROPELLER
	QUANTITY				1
	MATERIAL				ALUMINIUM
	DRIVE				DIRECT
	DIAMETER			**mm/in**	660.40 / 26
OUTDOOR FAN MOTOR	**TYPE**				INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
COMPRESSOR	**TYPE**				SCROLL
	OIL TYPE				SONTEX 200LT
	OIL AMOUNT			**cm^3 / fl.oz.**	3253.1 / 110
INDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS PLAIN COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.20 / 12.92
		ROW			4
		FIN PER INCH			12
OUTDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS BARE COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.76 / 19.00
		ROW			2
		FIN PER INCH			12
AIR QUALITY	**FILTER**	**TYPE**			WASHABLE VILEDON
		QUANTITY		**pc**	3
		SIZE	**LENGTH**	**mm/in**	542 / 19.4
			WIDTH	**mm/in**	738 / 29.1
			THICKNESS	**mm/in**	50.8 / 2.00
CASING	**INDOOR UNIT**		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY
	OUTDOOR UNIT		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY

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Components Data - Heatpump

MODEL	**INDOOR UNIT**				**ADB250BR2**
	OUTDOOR UNIT				**AMC125BR x 2**
INDOOR FAN	**TYPE**				CENTRIFUGAL
	QUANTITY				1
	MATERIAL				ZINC COATED STEEL
	DRIVE				BELT DRIVEN
	DIAMETER			**mm/in**	469.90 / 18.50
	LENGTH			**mm/in**	459.99 / 18.11
INDOOR FAN MOTOR	**TYPE**				SQUIRREL CAGE INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
OUTDOOR FAN	**TYPE**				PROPELLER
	QUANTITY				1
	MATERIAL				ALUMINIUM
	DRIVE				DIRECT
	DIAMETER			**mm/in**	762.00 / 30
OUTDOOR FAN MOTOR	**TYPE**				INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
COMPRESSOR	**TYPE**				SCROLL
	OIL TYPE				SONTEX 200LT
	OIL AMOUNT			**cm^3 / fl.oz.**	3253.1 / 110
INDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.48 / 16.01
		ROW			4
		FIN PER INCH			14
OUTDOOR COIL	**TUBE**	**MATERIAL**			INNER GROOVE
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.36 / 0.014
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.76 / 19.00
		ROW			2
		FIN PER INCH			18
AIR QUALITY	**FILTER**	**TYPE**			WASHABLE VILEDON
		QUANTITY		**pc**	6
		SIZE	**LENGTH**	**mm/in**	533 / 21.0
			WIDTH	**mm/in**	532 / 21.0
			THICKNESS	**mm/in**	50.8 / 2.00
CASING	**INDOOR UNIT**		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY
	OUTDOOR UNIT		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY

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Components Data - Heatpump

MODEL	**INDOOR UNIT**				**ADB300BR3**
	OUTDOOR UNIT				**AMC100BR x 3**
INDOOR FAN	**TYPE**				CENTRIFUGAL
	QUANTITY				1
	MATERIAL				ZINC COATED STEEL
	DRIVE				BELT DRIVEN
	DIAMETER			**mm/in**	469.90 / 18.50
	LENGTH			**mm/in**	459.99 / 18.11
INDOOR FAN MOTOR	**TYPE**				SQUIRREL CAGE INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
OUTDOOR FAN	**TYPE**				PROPELLER
	QUANTITY				1
	MATERIAL				ALUMINIUM
	DRIVE				DIRECT
	DIAMETER			**mm/in**	660.40 / 26
OUTDOOR FAN MOTOR	**TYPE**				INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
COMPRESSOR	**TYPE**				SCROLL
	OIL TYPE				SONTEX 200LT
	OIL AMOUNT			**cm^3 / fl.oz.**	3253.1 / 110
INDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.62 / 17.50
		ROW			5
		FIN PER INCH			12
OUTDOOR COIL	**TUBE**	**MATERIAL**			BARE TUBE
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.76 / 19.00
		ROW			2
		FIN PER INCH			12
AIR QUALITY	**FILTER**	**TYPE**			WASHABLE VILEDON
		QUANTITY		**pc**	6
		SIZE	**LENGTH**	**mm/in**	533 / 21.0
			WIDTH	**mm/in**	532 / 21.0
			THICKNESS	**mm/in**	50.8 / 2.00
CASING	**INDOOR UNIT**		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY
	OUTDOOR UNIT		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY

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Components Data - Heatpump

MODEL	INDOOR UNIT				ADB350BR3	
	OUTDOOR UNIT				AMC100BR x 1	AMC125BR x 2
INDOOR FAN	TYPE				CENTRIFUGAL	
	QUANTITY				1	
	MATERIAL				ZINC COATED STEEL	
	DRIVE				BELT DRIVEN	
	DIAMETER			mm/in	469.90 / 18.50	
	LENGTH			mm/in	459.99 / 18.11	
INDOOR FAN MOTOR	TYPE				SQUIRREL CAGE INDUCTION	
	QUANTITY				1	
	INDEX OF PROTECTION (IP)				IP54	
OUTDOOR FAN	TYPE				PROPELLER	PROPELLER
	QUANTITY				1	1
	MATERIAL				ALUMINIUM	ALUMINIUM
	DRIVE				DIRECT	DIRECT
	DIAMETER			mm/in	660.40 / 26	762.00 / 30
OUTDOOR FAN MOTOR	TYPE				INDUCTION	INDUCTION
	QUANTITY				1	1
	INDEX OF PROTECTION (IP)				IP54	IP54
COMPRESSOR	TYPE				SCROLL	SCROLL
	OIL TYPE				SONTEX 200LT	SONTEX 200LT
	OIL AMOUNT			cm^3 / fl.oz.	3253.1 / 110	3253.1 / 110
INDOOR COIL	TUBE	MATERIAL			SEAMLESS COPPER	
		DIAMETER		mm/in	9.52 / ⅜	
		THICKNESS		mm/in	0.35 / 0.013	
	FIN	MATERIAL			ALUMINIUM	
		THICKNESS		mm/in	0.127 / 0.005	
		FACE AREA		m^2/ft^2	2.38 / 25.62	
		ROW			4	
		FIN PER INCH			12	
OUTDOOR COIL	TUBE	MATERIAL			BARE TUBE	INNER GROOVE
		DIAMETER		mm/in	9.52 / ⅜	9.52 / ⅜
		THICKNESS		mm/in	0.35 / 0.013	0.36 / 0.014
	FIN	MATERIAL			ALUMINIUM	ALUMINIUM
		THICKNESS		mm/in	0.127 / 0.005	0.127 / 0.005
		FACE AREA		m^2/ft^2	1.76 / 19.00	1.76 / 19.00
		ROW			2	2
		FIN PER INCH			12	18
AIR QUALITY	FILTER	TYPE			WASHABLE VILEDON	WASHABLE VILEDON
		QUANTITY		pc	6	6
		SIZE	LENGTH	mm/in	617 / 24.3	617 / 24.3
			WIDTH	mm/in	661 / 26.0	661 / 26.0
			THICKNESS	mm/in	50.8 / 2.00	50.8 / 2.00
CASING	INDOOR UNIT		MATERIAL		ELECTRO GALVANIZED MILD STEEL	
			COLOUR		LIGHT GREY	
	OUTDOOR UNIT		MATERIAL		ELECTRO GALVANIZED MILD STEEL	
			COLOUR		LIGHT GREY	

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

Components Data - Heatpump

MODEL	**INDOOR UNIT**				**ADB400BR4**
	OUTDOOR UNIT				**AMC100BR x 4**
INDOOR FAN	**TYPE**				CENTRIFUGAL
	QUANTITY				1
	MATERIAL				ZINC COATED STEEL
	DRIVE				BELT DRIVEN
	DIAMETER			**mm/in**	591.82 / 23.30
	LENGTH			**mm/in**	563.88 / 22.20
INDOOR FAN MOTOR	**TYPE**				SQUIRREL CAGE INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
OUTDOOR FAN	**TYPE**				PROPELLER
	QUANTITY				1
	MATERIAL				ALUMINIUM
	DRIVE				DIRECT
	DIAMETER			**mm/in**	660.40 / 26
OUTDOOR FAN MOTOR	**TYPE**				INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
COMPRESSOR	**TYPE**				SCROLL
	OIL TYPE				SONTEX 200LT
	OIL AMOUNT			**cm^3 / fl.oz.**	3253.1 / 110
INDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	2.38 / 25.62
		ROW			4
		FIN PER INCH			14
OUTDOOR COIL	**TUBE**	**MATERIAL**			BARE TUBE
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.76 / 19.00
		ROW			2
		FIN PER INCH			12
AIR QUALITY	**FILTER**	**TYPE**			WASHABLE VILEDON
		QUANTITY		**pc**	6
		SIZE	**LENGTH**	**mm/in**	668 / 26.3
			WIDTH	**mm/in**	661 / 26.0
			THICKNESS	**mm/in**	50.8 / 2.00
CASING	**INDOOR UNIT**		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY
	OUTDOOR UNIT		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY

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

Components Data - Heatpump

MODEL	**INDOOR UNIT**				**ADB500BR4**
	OUTDOOR UNIT				**AMC125BR x 4**
INDOOR FAN	**TYPE**				CENTRIFUGAL
	QUANTITY				1
	MATERIAL				ZINC COATED STEEL
	DRIVE				BELT DRIVEN
	DIAMETER			**mm/in**	591.82 / 23.30
	LENGTH			**mm/in**	563.88 / 22.20
INDOOR FAN MOTOR	**TYPE**				SQUIRREL CAGE INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
OUTDOOR FAN	**TYPE**				PROPELLER
	QUANTITY				1
	MATERIAL				ALUMINIUM
	DRIVE				DIRECT
	DIAMETER			**mm/in**	762.00 / 30
OUTDOOR FAN MOTOR	**TYPE**				INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
COMPRESSOR	**TYPE**				SCROLL
	OIL TYPE				SONTEX 200LT
	OIL AMOUNT			**cm^3 / fl.oz.**	3253.1 / 110
INDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	2.55 / 27.45
		ROW			5
		FIN PER INCH			12
OUTDOOR COIL	**TUBE**	**MATERIAL**			INNER GROOVE
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.36 / 0.014
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.76 / 19.00
		ROW			2
		FIN PER INCH			18
AIR QUALITY	**FILTER**	**TYPE**			WASHABLE VILEDON
		QUANTITY		**pc**	6
		SIZE	**LENGTH**	**mm/in**	668 / 26.3
			WIDTH	**mm/in**	661 / 26.0
			THICKNESS	**mm/in**	50.8 / 2.00
CASING	**INDOOR UNIT**		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY
	OUTDOOR UNIT		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY

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

Components Data - Heatpump

MODEL	**INDOOR UNIT**				**ADSB200BR2**
	OUTDOOR UNIT				**AMC100BR x 2**
INDOOR FAN	**TYPE**				CENTRIFUGAL
	QUANTITY				1
	MATERIAL				ZINC COATED STEEL
	DRIVE				BELT DRIVEN
	DIAMETER			**mm/in**	394.97 / 15.55
	LENGTH			**mm/in**	381.00 / 15.00
INDOOR FAN MOTOR	**TYPE**				SQUIRREL CAGE INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP20
OUTDOOR FAN	**TYPE**				PROPELLER
	QUANTITY				1
	MATERIAL				ALUMINIUM
	DRIVE				DIRECT
	DIAMETER			**mm/in**	660.40 / 26
OUTDOOR FAN MOTOR	**TYPE**				INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
COMPRESSOR	**TYPE**				SCROLL
	OIL TYPE				SONTEX 200LT
	OIL AMOUNT			**cm^3 / fl.oz.**	3253.1 / 110
INDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS PLAIN COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.20 / 12.92
		ROW			4
		FIN PER INCH			12
OUTDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS BARE COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.76 / 19.00
		ROW			2
		FIN PER INCH			12
AIR QUALITY	**FILTER**	**TYPE**			WASHABLE VILEDON
		QUANTITY		**pc**	3
		SIZE	**LENGTH**	**mm/in**	542 / 19.4
			WIDTH	**mm/in**	738 / 29.1
			THICKNESS	**mm/in**	50.8 / 2.00
CASING	**INDOOR UNIT**		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY
	OUTDOOR UNIT		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY

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Components Data - Heatpump

MODEL	**INDOOR UNIT**				**ADSB250BR2**
	OUTDOOR UNIT				**AMC125BR x 2**
INDOOR FAN	**TYPE**				CENTRIFUGAL
	QUANTITY				1
	MATERIAL				ZINC COATED STEEL
	DRIVE				BELT DRIVEN
	DIAMETER			**mm/in**	469.90 / 18.50
	LENGTH			**mm/in**	459.99 / 18.11
INDOOR FAN MOTOR	**TYPE**				SQUIRREL CAGE INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
OUTDOOR FAN	**TYPE**				PROPELLER
	QUANTITY				1
	MATERIAL				ALUMINIUM
	DRIVE				DIRECT
	DIAMETER			**mm/in**	762.00 / 30
OUTDOOR FAN MOTOR	**TYPE**				INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
COMPRESSOR	**TYPE**				SCROLL
	OIL TYPE				SONTEX 200LT
	OIL AMOUNT			**cm^3 / fl.oz.**	3253.1 / 110
INDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS PLAIN COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.48 / 16.01
		ROW			4
		FIN PER INCH			14
OUTDOOR COIL	**TUBE**	**MATERIAL**			INNER GROOVE
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.36 / 0.014
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.76 / 19.00
		ROW			2
		FIN PER INCH			18
AIR QUALITY	**FILTER**	**TYPE**			WASHABLE VILEDON
		QUANTITY		**pc**	6
		SIZE	**LENGTH**	**mm/in**	533 / 21.0
			WIDTH	**mm/in**	532 / 21.0
			THICKNESS	**mm/in**	50.8 / 2.00
CASING	**INDOOR UNIT**		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY
	OUTDOOR UNIT		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY

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

Components Data - Heatpump

MODEL	**INDOOR UNIT**				**ADSB300BR3**
	OUTDOOR UNIT				**AMC100BR x 3**
INDOOR FAN	**TYPE**				CENTRIFUGAL
	QUANTITY				1
	MATERIAL				ZINC COATED STEEL
	DRIVE				BELT DRIVEN
	DIAMETER			**mm/in**	469.90 / 18.50
	LENGTH			**mm/in**	459.99 / 18.11
INDOOR FAN MOTOR	**TYPE**				SQUIRREL CAGE INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
OUTDOOR FAN	**TYPE**				PROPELLER
	QUANTITY				1
	MATERIAL				ALUMINIUM
	DRIVE				DIRECT
	DIAMETER			**mm/in**	660.40 / 26
OUTDOOR FAN MOTOR	**TYPE**				INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
COMPRESSOR	**TYPE**				SCROLL
	OIL TYPE				SONTEX 200LT
	OIL AMOUNT			**cm^3 / fl.oz.**	3253.1 / 110
INDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS PLAIN COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.62 / 17.50
		ROW			5
		FIN PER INCH			12
OUTDOOR COIL	**TUBE**	**MATERIAL**			BARE TUBE
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.76 / 19.00
		ROW			2
		FIN PER INCH			12
AIR QUALITY	**FILTER**	**TYPE**			WASHABLE VILEDON
		QUANTITY		**pc**	6
		SIZE	**LENGTH**	**mm/in**	533 / 21.0
			WIDTH	**mm/in**	532 / 21.0
			THICKNESS	**mm/in**	50.8 / 2.00
CASING	**INDOOR UNIT**		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY
	OUTDOOR UNIT		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY

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Components Data - Heatpump

MODEL	INDOOR UNIT				ADSB350BR3	
	OUTDOOR UNIT				AMC100BR x 1	AMC125BR x 2
INDOOR FAN	TYPE				CENTRIFUGAL	
	QUANTITY				1	
	MATERIAL				ZINC COATED STEEL	
	DRIVE				BELT DRIVEN	
	DIAMETER			mm/in	469.90 / 18.50	
	LENGTH			mm/in	459.99 / 18.11	
INDOOR FAN MOTOR	TYPE				SQUIRREL CAGE INDUCTION	
	QUANTITY				1	
	INDEX OF PROTECTION (IP)				IP54	
OUTDOOR FAN	TYPE				PROPELLER	PROPELLER
	QUANTITY				1	1
	MATERIAL				ALUMINIUM	ALUMINIUM
	DRIVE				DIRECT	DIRECT
	DIAMETER			mm/in	660.40 / 26	762.00 / 30
OUTDOOR FAN MOTOR	TYPE				INDUCTION	INDUCTION
	QUANTITY				1	1
	INDEX OF PROTECTION (IP)				IP54	IP54
COMPRESSOR	TYPE				SCROLL	SCROLL
	OIL TYPE				SONTEX 200LT	SONTEX 200LT
	OIL AMOUNT			cm^3 / fl.oz.	3253.1 / 110	3253.1 / 110
INDOOR COIL	TUBE	MATERIAL			SEAMLESS PLAIN COPPER	
		DIAMETER		mm/in	9.52 / ⅜	
		THICKNESS		mm/in	0.35 / 0.013	
	FIN	MATERIAL			ALUMINIUM	
		THICKNESS		mm/in	0.127 / 0.005	
		FACE AREA		m^2/ft^2	2.38 / 25.62	
		ROW			4	
		FIN PER INCH			12	
OUTDOOR COIL	TUBE	MATERIAL			BARE TUBE	INNER GROOVE
		DIAMETER		mm/in	9.52 / ⅜	9.52 / ⅜
		THICKNESS		mm/in	0.35 / 0.013	0.36 / 0.014
	FIN	MATERIAL			ALUMINIUM	ALUMINIUM
		THICKNESS		mm/in	0.127 / 0.005	0.127 / 0.005
		FACE AREA		m^2/ft^2	1.76 / 19.00	1.76 / 19.00
		ROW			2	2
		FIN PER INCH			12	18
AIR QUALITY	FILTER	TYPE			WASHABLE VILEDON	WASHABLE VILEDON
		QUANTITY		pc	6	6
		SIZE	LENGTH	mm/in	617 / 24.3	617 / 24.3
			WIDTH	mm/in	661 / 26.0	661 / 26.0
			THICKNESS	mm/in	50.8 / 2.00	50.8 / 2.00
CASING	INDOOR UNIT		MATERIAL		ELECTRO GALVANIZED MILD STEEL	
			COLOUR		LIGHT GREY	
	OUTDOOR UNIT		MATERIAL		ELECTRO GALVANIZED MILD STEEL	
			COLOUR		LIGHT GREY	

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Components Data - Heatpump

MODEL	**INDOOR UNIT**				**ADSB400BR4**
	OUTDOOR UNIT				**AMC100BR x 4**
INDOOR FAN	**TYPE**				CENTRIFUGAL
	QUANTITY				1
	MATERIAL				ZINC COATED STEEL
	DRIVE				BELT DRIVEN
	DIAMETER			**mm/in**	591.82 / 23.30
	LENGTH			**mm/in**	563.88 / 22.20
INDOOR FAN MOTOR	**TYPE**				SQUIRREL CAGE INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
OUTDOOR FAN	**TYPE**				PROPELLER
	QUANTITY				1
	MATERIAL				ALUMINIUM
	DRIVE				DIRECT
	DIAMETER			**mm/in**	660.40 / 26
OUTDOOR FAN MOTOR	**TYPE**				INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
COMPRESSOR	**TYPE**				SCROLL
	OIL TYPE				SONTEX 200LT
	OIL AMOUNT			**cm^3 / fl.oz.**	3253.1 / 110
INDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS PLAIN COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	2.38 / 25.62
		ROW			4
		FIN PER INCH			14
OUTDOOR COIL	**TUBE**	**MATERIAL**			BARE TUBE
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.76 / 19.00
		ROW			2
		FIN PER INCH			12
AIR QUALITY	**FILTER**	**TYPE**			WASHABLE VILEDON
		QUANTITY		**pc**	6
		SIZE	**LENGTH**	**mm/in**	668 / 26.3
			WIDTH	**mm/in**	661 / 26.0
			THICKNESS	**mm/in**	50.8 / 2.00
CASING	**INDOOR UNIT**		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY
	OUTDOOR UNIT		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY

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Components Data - Heatpump

MODEL	**INDOOR UNIT**				**ADSB500BR4**
	OUTDOOR UNIT				**AMC125BR x 4**
INDOOR FAN	**TYPE**				CENTRIFUGAL
	QUANTITY				1
	MATERIAL				ZINC COATED STEEL
	DRIVE				BELT DRIVEN
	DIAMETER			**mm/in**	591.82 / 23.30
	LENGTH			**mm/in**	563.88 / 22.20
INDOOR FAN MOTOR	**TYPE**				SQUIRREL CAGE INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
OUTDOOR FAN	**TYPE**				PROPELLER
	QUANTITY				1
	MATERIAL				ALUMINIUM
	DRIVE				DIRECT
	DIAMETER			**mm/in**	762.00 / 30
OUTDOOR FAN MOTOR	**TYPE**				INDUCTION
	QUANTITY				1
	INDEX OF PROTECTION (IP)				IP54
COMPRESSOR	**TYPE**				SCROLL
	OIL TYPE				SONTEX 200LT
	OIL AMOUNT			**cm^3 / fl.oz.**	3253.1 / 110
INDOOR COIL	**TUBE**	**MATERIAL**			SEAMLESS PLAIN COPPER
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	2.55 / 27.45
		ROW			5
		FIN PER INCH			12
OUTDOOR COIL	**TUBE**	**MATERIAL**			INNER GROOVE
		DIAMETER		**mm/in**	9.52 / ⅜
		THICKNESS		**mm/in**	0.36 / 0.014
	FIN	**MATERIAL**			ALUMINIUM
		THICKNESS		**mm/in**	0.127 / 0.005
		FACE AREA		**m^2/ft^2**	1.76 / 19.00
		ROW			2
		FIN PER INCH			18
AIR QUALITY	**FILTER**	**TYPE**			WASHABLE VILEDON
		QUANTITY		**pc**	6
		SIZE	**LENGTH**	**mm/in**	668 / 26.3
			WIDTH	**mm/in**	661 / 26.0
			THICKNESS	**mm/in**	50.8 / 2.00
CASING	**INDOOR UNIT**		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY
	OUTDOOR UNIT		**MATERIAL**		ELECTRO GALVANIZED MILD STEEL
			COLOUR		LIGHT GREY

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

Safety Devices Data - Heatpump

MODEL	INDOOR UNIT			ADB75BR
	OUTDOOR UNIT			AMC75CR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

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

MODEL	INDOOR UNIT			ADB100BR
	OUTDOOR UNIT			AMC100BR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

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

MODEL	INDOOR UNIT			ADB125CR
	OUTDOOR UNIT			AMC125BR
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

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

MODEL	INDOOR UNIT			ADB150BR2
	OUTDOOR UNIT			AMC75CR x 2
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

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

Safety Devices Data - Heatpump

MODEL	INDOOR UNIT			ADB200BR2
	OUTDOOR UNIT			AMC100BR x 2
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

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

MODEL	INDOOR UNIT			ADB250BR2
	OUTDOOR UNIT			AMC125BR x 2
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

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

MODEL	INDOOR UNIT			ADB300BR3
	OUTDOOR UNIT			AMC100BR x 3
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

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

MODEL	INDOOR UNIT			ADB350BR3	
	OUTDOOR UNIT			AMC100BR x 1	AMC125BR x 2
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET	AUTO RESET
		OPEN	Pa / psi	3240536 / 470	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET	AUTO RESET
		OPEN	Pa / psi	124105.6 / 18	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28	193053.2 / 28
	PHASE SEQUENCER			OYLT	OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257	125 / 257

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

Safety Devices Data - Heatpump

MODEL	INDOOR UNIT			ADB400BR4
	OUTDOOR UNIT			AMC100BR x 4
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

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

MODEL	INDOOR UNIT			ADB500BR4
	OUTDOOR UNIT			AMC125BR x 4
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

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

Safety Devices Data - Heatpump

MODEL	INDOOR UNIT			ADSB200BR2
	OUTDOOR UNIT			AMC100BR x 2
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

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

MODEL	INDOOR UNIT			ADSB250BR2
	OUTDOOR UNIT			AMC125BR x 2
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

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

MODEL	INDOOR UNIT			ADSB300BR3
	OUTDOOR UNIT			AMC100BR x 3
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

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

MODEL	INDOOR UNIT			ADSB350BR3	
	OUTDOOR UNIT			AMC100BR x 1	AMC125BR x 2
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET	AUTO RESET
		OPEN	Pa / psi	3240536 / 470	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET	AUTO RESET
		OPEN	Pa / psi	124105.6 / 18	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28	193053.2 / 28
	PHASE SEQUENCER			OYLT	OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257	125 / 257

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

Safety Devices Data - Heatpump

MODEL	INDOOR UNIT			ADSB400BR4
	OUTDOOR UNIT			AMC100BR x 4
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

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

MODEL	INDOOR UNIT			ADSB500BR4
	OUTDOOR UNIT			AMC125BR x 4
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			OYLT
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

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

7. 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: ADB75BR / AMC75CR
Indoor Condition: 23°C DB, 15°C WB
Outdoor Condition: 37°C DB

Solution:

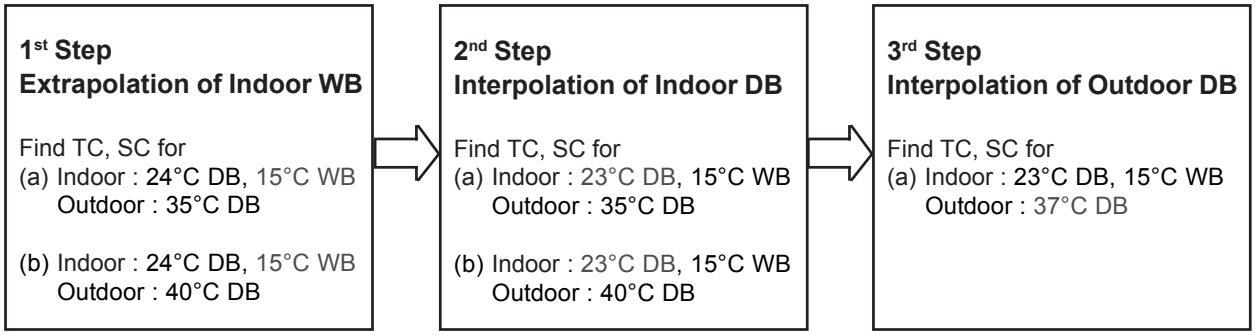
Overall
Based on the Performance table of ADB75BR / AMC75CR

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		19.301	13.903	
	17		20.001	13.226	

Total capacity, TC

$\Rightarrow$ x_1 = 18.601kW *(Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 35°C Outdoor WB)**

Sensible capacity, SC

Extrapolation Method:

$$\Rightarrow \frac{17°C - 15°C}{17°C - 16°C} = \frac{13.226kW - y_1}{13.226kW - 13.903kW}$$

$\Rightarrow$ y_1 = 14.580kW

(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		17.750	12.968	
	17		18.240	12.375	

Total capacity, TC

$\Rightarrow$ x_2 = 17.261kW *(Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 40°C Outdoor WB)**

Sensible capacity, SC

Extrapolation Method:

$$\Rightarrow \frac{17°C - 15°C}{17°C - 16°C} = \frac{12.375kW - y_2}{12.375kW - 12.968kW}$$

$\Rightarrow$ y_2 = 13.561kW

***** *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**		18.601	10.824	
23	**15**		x_3	y_3	
24	**15**		18.601	14.580	

Total capacity, TC

$\Rightarrow$ x_3 = 18.601kW *(Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 35°C Outdoor WB)**

Sensible capacity, SC

Interpolation Method:

$$\Rightarrow \frac{24°C - 20°C}{24°C - 23°C} = \frac{14.580kW - 10.824kW}{14.580kW - y_3}$$

$\Rightarrow$ y_3 = 13.641kW

(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**		17.261	9.807	
23	**15**		x_4	y_4	
24	**15**		17.261	13.561	

Total capacity, TC

$\Rightarrow$ x_4 = 17.261kW *(Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 40°C Outdoor WB)**

Sensible capacity, SC

Interpolation Method:

$$\Rightarrow \frac{24°C - 20°C}{24°C - 23°C} = \frac{13.561kW - 9.807kW}{13.561kW - y_4}$$

$\Rightarrow$ y_4 = 12.623kW

** 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**	- - - - -	18.601	13.641	**x**	**y**	17.261	12.623

Total capacity, TC

Interpolation Method:

$$\Rightarrow \frac{40°C - 35°C}{40°C - 37°C} = \frac{17.261kW - 18.601kW}{17.261kW - x}$$

$$\Rightarrow x = 18.065kW$$

Sensible capacity, SC

Interpolation Method:

$$\Rightarrow \frac{40°C - 35°C}{40°C - 37°C} = \frac{12.623kW - 13.641kW}{12.623kW - y}$$

$$\Rightarrow y = 13.234kW$$

R22 MODELS
(HEATPUMP)

MODEL : ADB75BR / AMC75CR
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	22.620	13.877	21.281	12.860	19.941	11.842	18.601	10.824	17.261	9.807	15.654	8.585
	16	23.954	12.951	22.403	12.016	20.852	11.082	19.301	10.148	17.750	9.213	15.890	8.092
24	16	23.954	16.706	22.403	15.771	20.852	14.837	19.301	13.903	17.750	12.968	15.890	11.847
	17	25.287	15.779	23.525	14.928	21.763	14.077	20.001	13.226	18.240	12.375	16.126	11.354
	18	26.620	14.853	24.647	14.085	22.674	13.317	20.701	12.550	18.729	11.782	16.362	10.861
	19	27.953	13.926	25.769	13.242	23.585	12.557	21.402	11.873	19.218	11.189	16.598	10.368
	20	29.296	12.997	26.985	12.374	24.673	11.752	22.362	11.129	20.051	10.507	17.278	9.760
28	18	26.620	18.607	24.647	17.840	22.674	17.072	20.701	16.304	18.729	15.537	16.362	14.616
	19	27.953	17.681	25.769	16.997	23.585	16.312	21.402	15.628	19.218	14.944	16.598	14.122
	20	29.296	16.752	26.985	16.129	24.673	15.507	22.362	14.884	20.051	14.262	17.278	13.515
	21	30.645	15.821	28.262	15.246	25.879	14.671	23.497	14.096	21.114	13.520	18.254	12.830
	22	31.995	14.890	29.540	14.362	27.086	13.835	24.631	13.307	22.176	12.779	19.230	12.146
	23	33.345	13.959	30.818	13.479	28.292	12.999	25.765	12.518	23.239	12.038	20.207	11.461
	24	34.695	13.028	32.096	12.595	29.498	12.162	26.899	11.730	24.301	11.297	21.183	10.777
30	20	29.296	18.629	26.985	18.007	24.673	17.384	22.362	16.762	20.051	16.139	17.278	15.392
	21	30.645	17.698	28.262	17.123	25.879	16.548	23.497	15.973	21.114	15.398	18.254	14.708
	22	31.995	16.768	29.540	16.240	27.086	15.712	24.631	15.184	22.176	14.657	19.230	14.023
	23	33.345	15.837	30.818	15.356	28.292	14.876	25.765	14.396	23.239	13.915	20.207	13.339
	24	34.695	14.906	32.096	14.473	29.498	14.040	26.899	13.607	24.301	13.174	21.183	12.654

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	13.056	13.056	15.488	15.488	16.299	16.299	25.216	25.216	30.080	30.080	32.512	32.512	34.944	34.944
17	12.939	12.939	15.240	15.240	16.007	16.007	24.040	24.040	29.270	29.270	31.611	31.611	33.951	33.951
19	12.822	12.822	14.992	14.992	15.715	15.715	22.864	22.864	28.460	28.460	30.709	30.709	32.958	32.958
21	12.705	12.705	14.744	14.744	15.424	15.424	21.688	21.688	27.649	27.649	29.807	29.807	31.964	31.964
23	12.480	12.480	14.469	14.469	15.132	15.132	21.639	21.639	26.839	26.839	28.905	28.905	30.971	30.971
25	12.255	12.255	14.194	14.194	14.841	14.841	21.589	21.589	26.029	26.029	28.003	28.003	29.978	29.978
27	12.030	12.030	13.919	13.919	14.549	14.549	21.539	21.539	25.219	25.219	27.101	27.101	28.984	28.984

R22 MODELS
(HEATPUMP)

MODEL : ADB100BR / AMC100BR
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	25.426	12.497	24.512	12.145	23.597	11.792	22.682	11.440	21.767	11.087	20.669	10.664
	16	28.652	12.335	27.137	11.894	25.622	11.452	24.107	11.010	22.592	10.568	20.773	10.038
24	16	28.652	17.832	27.137	17.390	25.622	16.948	24.107	16.507	22.592	16.065	20.773	15.534
	17	31.878	17.670	29.762	17.139	27.647	16.608	25.531	16.077	23.416	15.546	20.877	14.909
	18	35.104	17.508	32.388	16.888	29.672	16.267	26.956	15.647	24.240	15.027	20.981	14.283
	19	38.329	17.346	35.013	16.636	31.697	15.927	28.381	15.217	25.065	14.508	21.085	13.657
	20	41.575	17.179	37.822	16.342	34.069	15.506	30.317	14.669	26.564	13.832	22.061	12.827
28	18	35.104	23.005	32.388	22.384	29.672	21.764	26.956	21.144	24.240	20.523	20.981	19.779
	19	38.329	22.842	35.013	22.133	31.697	21.423	28.381	20.714	25.065	20.005	21.085	19.153
	20	41.575	22.676	37.822	21.839	34.069	21.002	30.317	20.165	26.564	19.328	22.061	18.324
	21	44.833	22.506	40.753	21.516	36.673	20.527	32.593	19.537	28.513	18.547	23.617	17.359
	22	48.092	22.337	43.684	21.194	39.277	20.051	34.869	18.909	30.462	17.766	25.173	16.395
	23	51.350	22.167	46.615	20.871	41.880	19.576	37.146	18.280	32.411	16.985	26.729	15.430
	24	54.609	21.997	49.546	20.549	44.484	19.100	39.422	17.652	34.360	16.203	28.285	14.465
30	20	41.575	25.424	37.822	24.587	34.069	23.750	30.317	22.913	26.564	22.076	22.061	21.072
	21	44.833	25.254	40.753	24.265	36.673	23.275	32.593	22.285	28.513	21.295	23.617	20.108
	22	48.092	25.085	43.684	23.942	39.277	22.799	34.869	21.657	30.462	20.514	25.173	19.143
	23	51.350	24.915	46.615	23.620	41.880	22.324	37.146	21.028	32.411	19.733	26.729	18.178
	24	54.609	24.746	49.546	23.297	44.484	21.849	39.422	20.400	34.360	18.952	28.285	17.214

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	16.630	16.630	19.236	19.236	20.104	20.104	29.659	29.659	34.871	34.871	37.477	37.477	40.083	40.083
17	16.602	16.602	18.968	18.968	19.757	19.757	29.206	29.206	33.938	33.938	36.441	36.441	38.944	38.944
19	16.575	16.575	18.700	18.700	19.409	19.409	28.753	28.753	33.006	33.006	35.405	35.405	37.805	37.805
21	16.547	16.547	18.433	18.433	19.061	19.061	28.300	28.300	32.073	32.073	34.369	34.369	36.666	36.666
23	16.145	16.145	18.071	18.071	18.713	18.713	27.286	27.286	31.141	31.141	33.334	33.334	35.527	35.527
25	15.742	15.742	17.710	17.710	18.365	18.365	26.273	26.273	30.208	30.208	32.298	32.298	34.388	34.388
27	15.340	15.340	17.348	17.348	18.017	18.017	25.259	25.259	29.275	29.275	31.262	31.262	33.249	33.249

R22 MODELS
(HEATPUMP)

MODEL : ADB125CR / AMC125BR
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	38.099	21.336	35.458	19.240	32.817	17.144	30.175	15.049	27.534	12.953	24.364	10.437
	16	39.863	19.784	36.923	17.885	33.983	15.987	31.042	14.088	28.102	12.190	24.574	9.912
24	16	39.863	27.618	36.923	25.719	33.983	23.821	31.042	21.923	28.102	20.024	24.574	17.746
	17	41.626	26.065	38.387	24.364	35.148	22.663	31.910	20.962	28.671	19.261	24.784	17.220
	18	43.390	24.512	39.852	23.009	36.314	21.505	32.777	20.002	29.239	18.498	24.994	16.694
	19	45.153	22.960	41.317	21.654	37.480	20.348	33.644	19.042	29.808	17.736	25.204	16.168
	20	46.937	21.399	42.972	20.226	39.008	19.053	35.043	17.879	31.079	16.706	26.321	15.298
28	18	43.390	32.347	39.852	30.843	36.314	29.340	32.777	27.836	29.239	26.333	24.994	24.529
	19	45.153	30.794	41.317	29.488	37.480	28.182	33.644	26.876	29.808	25.570	25.204	24.003
	20	46.937	29.233	42.972	28.060	39.008	26.887	35.043	25.714	31.079	24.540	26.321	23.132
	21	48.734	27.668	44.755	26.584	40.776	25.500	36.797	24.417	32.818	23.333	28.043	22.033
	22	50.532	26.102	46.538	25.108	42.545	24.114	38.551	23.120	34.557	22.126	29.765	20.933
	23	52.329	24.536	48.321	23.632	44.313	22.727	40.305	21.823	36.297	20.918	31.487	19.833
	24	54.127	22.971	50.104	22.156	46.082	21.341	42.059	20.526	38.036	19.711	33.209	18.733
30	20	46.937	33.151	42.972	31.977	39.008	30.804	35.043	29.631	31.079	28.458	27.050	27.050
	21	48.734	31.585	44.755	30.501	40.776	29.418	36.797	28.334	32.818	27.250	28.043	25.950
	22	50.532	30.019	46.538	29.025	42.545	28.031	38.551	27.037	34.557	26.043	29.765	24.850
	23	52.329	28.453	48.321	27.549	44.313	26.645	40.305	25.740	36.297	24.836	31.487	23.750
	24	54.127	26.888	50.104	26.073	46.082	25.258	42.059	24.443	38.036	23.628	33.209	22.651

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	22.109	22.109	25.583	25.583	26.741	26.741	39.477	39.477	46.424	46.424	49.898	49.898	53.371	53.371
17	22.071	22.071	25.226	25.226	26.278	26.278	38.041	38.041	45.182	45.182	48.518	48.518	51.855	51.855
19	22.032	22.032	24.869	24.869	25.815	25.815	36.606	36.606	43.941	43.941	47.139	47.139	50.338	50.338
21	21.993	21.993	24.512	24.512	25.352	25.352	35.170	35.170	42.699	42.699	45.760	45.760	48.821	48.821
23	21.460	21.460	24.032	24.032	24.889	24.889	34.697	34.697	41.457	41.457	44.381	44.381	47.304	47.304
25	20.927	20.927	23.551	23.551	24.426	24.426	34.223	34.223	40.215	40.215	43.002	43.002	45.788	45.788
27	20.394	20.394	23.071	23.071	23.963	23.963	33.750	33.750	38.973	38.973	41.622	41.622	44.271	44.271

R22 MODELS
(HEATPUMP)

MODEL : ADB150BR2 / AMC75CR x 2
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	44.388	27.855	41.873	25.987	39.358	24.119	36.843	22.251	34.328	20.383	31.310	18.141
	16	47.249	26.199	44.275	24.460	41.301	22.721	38.326	20.982	35.352	19.243	31.782	17.156
24	16	47.249	33.108	44.275	31.369	41.301	29.630	38.326	27.891	35.352	26.152	31.782	24.065
	17	50.111	31.452	46.677	29.842	43.243	28.232	39.809	26.622	36.375	25.012	32.254	23.080
	18	52.972	29.796	49.078	28.315	45.185	26.834	41.292	25.353	37.398	23.872	32.726	22.095
	19	55.833	28.140	51.480	26.788	47.127	25.436	42.775	24.084	38.422	22.732	33.198	21.110
	20	58.714	26.479	54.069	25.213	49.424	23.947	44.778	22.681	40.133	21.415	34.559	19.896
28	18	52.972	36.705	49.078	35.224	45.185	33.743	41.292	32.262	37.398	30.781	32.726	29.004
	19	55.833	35.049	51.480	33.697	47.127	32.345	42.775	30.993	38.422	29.641	33.198	28.019
	20	58.714	33.388	54.069	32.122	49.424	30.856	44.778	29.590	40.133	28.324	34.559	26.804
	21	61.609	31.723	56.782	30.515	51.956	29.306	47.130	28.097	42.303	26.888	36.512	25.437
	22	64.503	30.059	59.496	28.907	54.488	27.756	49.481	26.604	44.473	25.452	38.465	24.070
	23	67.398	28.394	62.209	27.300	57.021	26.205	51.832	25.111	46.644	24.016	40.417	22.703
	24	70.292	26.730	64.923	25.692	59.553	24.655	54.183	23.618	48.814	22.581	42.370	21.336
30	20	58.714	36.843	54.069	35.576	49.424	34.310	44.778	33.044	40.133	31.778	34.559	30.259
	21	61.609	35.178	56.782	33.969	51.956	32.760	47.130	31.551	42.303	30.342	36.512	28.892
	22	64.503	33.513	59.496	32.362	54.488	31.210	49.481	30.058	44.473	28.907	38.465	27.525
	23	67.398	31.849	62.209	30.754	57.021	29.660	51.832	28.565	46.644	27.471	40.417	26.157
	24	70.292	30.184	64.923	29.147	59.553	28.110	54.183	27.072	48.814	26.035	42.370	24.790

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	26.112	26.112	30.976	30.976	32.597	32.597	50.432	50.432	60.161	60.161	65.025	65.025	69.889	69.889
17	25.878	25.878	30.480	30.480	32.014	32.014	48.080	48.080	58.540	58.540	63.221	63.221	67.902	67.902
19	25.644	25.644	29.984	29.984	31.431	31.431	45.728	45.728	56.919	56.919	61.417	61.417	65.915	65.915
21	25.410	25.410	29.488	29.488	30.848	30.848	43.376	43.376	55.299	55.299	59.614	59.614	63.929	63.929
23	24.960	24.960	28.938	28.938	30.264	30.264	43.277	43.277	53.678	53.678	57.810	57.810	61.942	61.942
25	24.510	24.510	28.388	28.388	29.681	29.681	43.178	43.178	52.058	52.058	56.006	56.006	59.955	59.955
27	24.060	24.060	27.838	27.838	29.098	29.098	43.079	43.079	50.437	50.437	54.203	54.203	57.969	57.969

R22 MODELS
(HEATPUMP)

MODEL : ADB200BR2 / AMC100BR x 2
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	50.853	24.995	49.023	24.290	47.194	23.585	45.364	22.879	43.534	22.174	41.339	21.328
	16	57.304	24.671	54.274	23.787	51.244	22.904	48.213	22.020	45.183	21.136	41.547	20.076
24	16	57.304	35.664	54.274	34.780	51.244	33.897	48.213	33.013	45.183	32.129	41.547	31.069
	17	63.756	35.340	59.525	34.278	55.294	33.216	51.063	32.154	46.832	31.092	41.755	29.817
	18	70.207	35.016	64.776	33.775	59.344	32.535	53.912	31.294	48.481	30.054	41.963	28.565
	19	76.659	34.692	70.026	33.273	63.394	31.854	56.762	30.435	50.130	29.016	42.171	27.313
	20	83.149	34.359	75.644	32.685	68.139	31.011	60.633	29.337	53.128	27.663	44.121	25.655
28	18	70.207	46.009	64.776	44.768	59.344	43.528	53.912	42.287	48.481	41.047	41.963	39.558
	19	76.659	45.685	70.026	44.266	63.394	42.847	56.762	41.428	50.130	40.009	42.171	38.306
	20	83.149	45.352	75.644	43.678	68.139	42.004	60.633	40.330	53.128	38.656	44.121	36.648
	21	89.666	45.012	81.506	43.033	73.346	41.053	65.186	39.074	57.026	37.094	47.234	34.719
	22	96.183	44.673	87.368	42.388	78.553	40.102	69.739	37.817	60.924	35.532	50.346	32.789
	23	102.700	44.334	93.231	41.743	83.761	39.152	74.291	36.560	64.821	33.969	53.458	30.860
	24	109.217	43.995	99.093	41.098	88.968	38.201	78.844	35.304	68.719	32.407	56.570	28.931
30	20	83.149	50.848	75.644	49.174	68.139	47.501	60.633	45.827	53.128	44.153	44.121	42.144
	21	89.666	50.509	81.506	48.529	73.346	46.550	65.186	44.570	57.026	42.591	47.234	40.215
	22	96.183	50.170	87.368	47.884	78.553	45.599	69.739	43.314	60.924	41.028	50.346	38.286
	23	102.700	49.830	93.231	47.239	83.761	44.648	74.291	42.057	64.821	39.466	53.458	36.356
	24	109.217	49.491	99.093	46.594	88.968	43.697	78.844	40.800	68.719	37.903	56.570	34.427

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	33.260	33.260	38.472	38.472	40.209	40.209	59.319	59.319	69.742	69.742	74.954	74.954	80.166	80.166
17	33.205	33.205	37.936	37.936	39.513	39.513	58.413	58.413	67.877	67.877	72.882	72.882	77.888	77.888
19	33.150	33.150	37.401	37.401	38.818	38.818	57.506	57.506	66.012	66.012	70.811	70.811	75.610	75.610
21	33.095	33.095	36.865	36.865	38.122	38.122	56.600	56.600	64.146	64.146	68.739	68.739	73.331	73.331
23	32.290	32.290	36.142	36.142	37.426	37.426	54.573	54.573	62.281	62.281	66.667	66.667	71.053	71.053
25	31.485	31.485	35.419	35.419	36.731	36.731	52.545	52.545	60.416	60.416	64.595	64.595	68.775	68.775
27	30.679	30.679	34.696	34.696	36.035	36.035	50.517	50.517	58.550	58.550	62.524	62.524	66.497	66.497

R22 MODELS
(HEATPUMP)

MODEL : ADB250BR2 / AMC125BR x 2
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	75.134	42.858	70.056	38.871	64.978	34.883	59.900	30.896	54.822	26.909	48.729	22.125
	16	78.903	39.994	73.181	36.355	67.459	32.717	61.737	29.078	56.015	25.439	49.149	21.073
24	16	78.903	54.917	73.181	51.278	67.459	47.639	61.737	44.001	56.015	40.362	49.149	35.995
	17	82.672	52.053	76.306	48.763	69.940	45.473	63.574	42.182	57.208	38.892	49.568	34.944
	18	86.440	49.190	79.430	46.248	72.420	43.306	65.410	40.364	58.400	37.422	49.988	33.892
	19	90.209	46.326	82.555	43.733	74.901	41.139	67.247	38.546	59.593	35.952	50.408	32.840
	20	94.019	43.447	86.062	41.073	78.105	38.698	70.148	36.324	62.191	33.949	52.642	31.100
28	18	86.440	64.112	79.430	61.170	72.420	58.228	65.410	55.287	58.400	52.345	49.988	48.815
	19	90.209	61.248	82.555	58.655	74.901	56.062	67.247	53.468	59.593	50.875	50.408	47.763
	20	94.019	58.369	86.062	55.995	78.105	53.621	70.148	51.246	62.191	48.872	52.642	46.022
	21	97.856	55.480	89.823	53.238	81.791	50.997	73.758	48.755	65.725	46.513	56.086	43.823
	22	101.693	52.591	93.585	50.482	85.477	48.372	77.368	46.263	69.260	44.154	59.530	41.623
	23	105.530	49.701	97.346	47.725	89.162	45.748	80.979	43.772	72.795	41.796	62.974	39.424
	24	109.367	46.812	101.108	44.968	92.848	43.124	84.589	41.281	76.329	39.437	66.418	37.224
30	20	94.019	65.831	86.062	63.456	78.105	61.082	70.148	58.707	62.191	56.333	53.484	53.484
	21	97.856	62.941	89.823	60.699	81.791	58.458	73.758	56.216	65.725	53.974	56.086	51.284
	22	101.693	60.052	93.585	57.943	85.477	55.834	77.368	53.725	69.260	51.615	59.530	49.085
	23	105.530	57.162	97.346	55.186	89.162	53.210	80.979	51.233	72.795	49.257	62.974	46.885
	24	109.367	54.273	101.108	52.429	92.848	50.586	84.589	48.742	76.329	46.898	66.418	44.685

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	44.219	44.219	51.166	51.166	53.482	53.482	78.954	78.954	92.848	92.848	99.795	99.795	106.743	106.743
17	44.141	44.141	50.452	50.452	52.556	52.556	76.083	76.083	90.365	90.365	97.037	97.037	103.709	103.709
19	44.064	44.064	49.738	49.738	51.630	51.630	73.211	73.211	87.881	87.881	94.278	94.278	100.676	100.676
21	43.986	43.986	49.025	49.025	50.704	50.704	70.340	70.340	85.398	85.398	91.520	91.520	97.642	97.642
23	42.920	42.920	48.064	48.064	49.778	49.778	69.393	69.393	82.914	82.914	88.762	88.762	94.609	94.609
25	41.854	41.854	47.103	47.103	48.853	48.853	68.446	68.446	80.430	80.430	86.003	86.003	91.576	91.576
27	40.787	40.787	46.142	46.142	47.927	47.927	67.500	67.500	77.947	77.947	83.245	83.245	88.542	88.542

R22 MODELS
(HEATPUMP)

MODEL : ADB300BR3 / AMC100BR x 3
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	74.809	37.748	72.347	36.973	69.885	36.198	67.424	35.423	64.962	34.648	62.008	33.718
	16	84.820	37.596	80.493	36.489	76.166	35.382	71.839	34.275	67.513	33.168	62.320	31.840
24	16	84.820	53.055	80.493	51.948	76.166	50.841	71.839	49.734	67.513	48.627	62.320	47.299
	17	94.831	52.903	88.639	51.464	82.447	50.026	76.255	48.587	70.063	47.148	62.632	45.421
	18	104.843	52.752	96.785	50.981	88.728	49.210	80.671	47.439	72.613	45.668	62.944	43.543
	19	114.854	52.600	104.932	50.497	95.009	48.394	85.086	46.291	75.164	44.189	63.256	41.665
	20	124.925	52.434	113.628	49.885	102.331	47.336	91.035	44.786	79.738	42.237	66.182	39.178
28	18	104.843	68.211	96.785	66.440	88.728	64.669	80.671	62.898	72.613	61.127	62.944	59.002
	19	114.854	68.059	104.932	65.956	95.009	63.853	85.086	61.751	75.164	59.648	63.256	57.124
	20	124.925	67.893	113.628	65.344	102.331	62.795	91.035	60.245	79.738	57.696	66.182	54.637
	21	135.034	67.719	122.691	64.646	110.348	61.574	98.005	58.502	85.662	55.430	70.850	51.743
	22	145.144	67.544	131.754	63.949	118.365	60.353	104.975	56.758	91.586	53.163	75.519	48.849
	23	155.254	67.369	140.818	63.251	126.382	59.133	111.946	55.015	97.510	50.897	80.187	45.955
	24	165.363	67.194	149.881	62.553	134.399	57.912	118.916	53.271	103.434	48.630	84.855	43.061
30	20	124.925	75.623	113.628	73.073	102.331	70.524	91.035	67.975	79.738	65.426	66.182	62.366
	21	135.034	75.448	122.691	72.376	110.348	69.304	98.005	66.231	85.662	63.159	70.850	59.472
	22	145.144	75.273	131.754	71.678	118.365	68.083	104.975	64.488	91.586	60.893	75.519	56.578
	23	155.254	75.099	140.818	70.981	126.382	66.862	111.946	62.744	97.510	58.626	80.187	53.684
	24	165.363	74.924	149.881	70.283	134.399	65.642	118.916	61.001	103.434	56.360	84.855	50.790

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	49.890	49.890	57.708	57.708	60.313	60.313	88.978	88.978	104.613	104.613	112.431	112.431	120.249	120.249
17	49.807	49.807	56.904	56.904	59.270	59.270	87.619	87.619	101.815	101.815	109.323	109.323	116.832	116.832
19	49.725	49.725	56.101	56.101	58.226	58.226	86.260	86.260	99.017	99.017	106.216	106.216	113.414	113.414
21	49.642	49.642	55.298	55.298	57.183	57.183	84.900	84.900	96.220	96.220	103.108	103.108	109.997	109.997
23	48.435	48.435	54.213	54.213	56.139	56.139	81.859	81.859	93.422	93.422	100.001	100.001	106.580	106.580
25	47.227	47.227	53.129	53.129	55.096	55.096	78.818	78.818	90.624	90.624	96.893	96.893	103.163	103.163
27	46.019	46.019	52.044	52.044	54.052	54.052	75.776	75.776	87.826	87.826	93.786	93.786	99.746	99.746

R22 MODELS
(HEATPUMP)

MODEL : ADB350BR3 / AMC100BR x 1 + AMC125BR x 2

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	97.494	54.210	92.091	50.523	86.688	46.836	81.285	43.149	75.882	39.462	69.398	35.038
	16	105.186	51.568	98.404	48.064	91.623	44.559	84.841	41.055	78.060	37.550	69.922	33.345
24	16	105.186	70.634	98.404	67.130	91.623	63.626	84.841	60.121	78.060	56.617	69.922	52.411
	17	112.877	67.993	104.717	64.671	96.557	61.349	88.398	58.027	80.238	54.705	70.446	50.719
	18	120.568	65.351	111.030	62.212	101.492	59.072	91.954	55.933	82.416	52.793	70.970	49.026
	19	128.260	62.709	117.343	59.752	106.427	56.795	95.510	53.838	84.593	50.881	71.494	47.333
	20	136.012	60.046	124.222	57.095	112.431	54.144	100.641	51.192	88.851	48.241	74.703	44.700
28	18	120.568	84.417	111.030	81.278	101.492	78.138	91.954	74.999	82.416	71.859	70.970	68.092
	19	128.260	81.776	117.343	78.819	106.427	75.862	95.510	72.905	84.593	69.948	71.494	66.399
	20	136.012	79.113	124.222	76.161	112.431	73.210	100.641	70.259	88.851	67.307	74.703	63.766
	21	143.804	76.436	131.477	73.372	119.150	70.309	106.823	67.245	94.496	64.182	79.703	60.506
	22	151.596	73.758	138.732	70.583	125.868	67.407	113.004	64.232	100.140	61.056	84.703	57.245
	23	159.389	71.081	145.988	67.794	132.587	64.506	119.185	61.218	105.784	57.930	89.703	53.985
	24	167.181	68.404	153.243	65.004	139.305	61.605	125.367	58.205	111.429	54.805	94.703	50.725
30	20	136.012	88.646	124.222	85.694	112.431	82.743	100.641	79.792	88.851	76.841	74.703	73.299
	21	143.804	85.969	131.477	82.905	119.150	79.842	106.823	76.778	94.496	73.715	79.703	70.039
	22	151.596	83.292	138.732	80.116	125.868	76.940	113.004	73.765	100.140	70.589	84.703	66.778
	23	159.389	80.615	145.988	77.327	132.587	74.039	119.185	70.751	105.784	67.464	89.703	63.518
	24	167.181	77.938	153.243	74.538	139.305	71.138	125.367	67.738	111.429	64.338	94.703	60.258

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	60.849	60.849	70.402	70.402	73.586	73.586	108.614	108.614	127.720	127.720	137.273	137.273	146.825	146.825
17	60.744	60.744	69.420	69.420	72.312	72.312	105.289	105.289	124.303	124.303	133.478	133.478	142.653	142.653
19	60.639	60.639	68.439	68.439	71.039	71.039	101.965	101.965	120.887	120.887	129.684	129.684	138.481	138.481
21	60.533	60.533	67.457	67.457	69.765	69.765	98.640	98.640	117.471	117.471	125.889	125.889	134.308	134.308
23	59.065	59.065	66.135	66.135	68.492	68.492	96.680	96.680	114.055	114.055	122.095	122.095	130.136	130.136
25	57.596	57.596	64.812	64.812	67.218	67.218	94.719	94.719	110.638	110.638	118.301	118.301	125.963	125.963
27	56.127	56.127	63.490	63.490	65.944	65.944	92.758	92.758	107.222	107.222	114.506	114.506	121.791	121.791

R22 MODELS
(HEATPUMP)

MODEL : ADB400BR4 / AMC100BR x 4
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	99.745	50.331	96.463	49.297	93.181	48.264	89.899	47.231	86.616	46.197	82.678	44.957
	16	113.093	50.128	107.324	48.652	101.555	47.176	95.786	45.700	90.017	44.225	83.094	42.453
24	16	113.093	70.740	107.324	69.264	101.555	67.788	95.786	66.313	90.017	64.837	83.094	63.066
	17	126.442	70.538	118.186	68.619	109.930	66.701	101.673	64.782	93.417	62.864	83.510	60.562
	18	139.790	70.335	129.047	67.974	118.304	65.613	107.561	63.252	96.818	60.891	83.926	58.058
	19	153.139	70.133	139.909	67.329	126.679	64.526	113.448	61.722	100.218	58.918	84.342	55.554
	20	166.566	69.912	151.504	66.513	136.442	63.114	121.380	59.715	106.317	56.316	88.243	52.237
28	18	139.790	90.947	129.047	88.586	118.304	86.225	107.561	83.864	96.818	81.503	83.926	78.670
	19	153.139	90.745	139.909	87.941	126.679	85.138	113.448	82.334	100.218	79.530	84.342	76.166
	20	166.566	90.524	151.504	87.125	136.442	83.726	121.380	80.327	106.317	76.928	88.243	72.849
	21	180.046	90.291	163.588	86.195	147.131	82.099	130.673	78.002	114.216	73.906	94.467	68.990
	22	193.525	90.058	175.673	85.265	157.820	80.471	139.967	75.678	122.115	70.884	100.691	65.132
	23	207.005	89.826	187.757	84.335	168.509	78.844	149.261	73.353	130.013	67.862	106.916	61.273
	24	220.484	89.593	199.841	83.405	179.198	77.216	158.555	71.028	137.912	64.840	113.140	57.414
30	20	166.566	100.830	151.504	97.431	136.442	94.032	121.380	90.633	106.317	87.234	88.243	83.155
	21	180.046	100.597	163.588	96.501	147.131	92.405	130.673	88.308	114.216	84.212	94.467	79.296
	22	193.525	100.365	175.673	95.571	157.820	90.777	139.967	85.984	122.115	81.190	100.691	75.438
	23	207.005	100.132	187.757	94.641	168.509	89.150	149.261	83.659	130.013	78.168	106.916	71.579
	24	220.484	99.899	199.841	93.711	179.198	87.522	158.555	81.334	137.912	75.146	113.140	67.721

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	66.520	66.520	76.943	76.943	80.418	80.418	118.638	118.638	139.485	139.485	149.908	149.908	160.332	160.332
17	66.410	66.410	75.872	75.872	79.027	79.027	116.825	116.825	135.754	135.754	145.765	145.765	155.775	155.775
19	66.300	66.300	74.801	74.801	77.635	77.635	115.013	115.013	132.023	132.023	141.621	141.621	151.219	151.219
21	66.190	66.190	73.730	73.730	76.244	76.244	113.200	113.200	128.293	128.293	137.478	137.478	146.663	146.663
23	64.580	64.580	72.284	72.284	74.853	74.853	109.145	109.145	124.562	124.562	133.334	133.334	142.107	142.107
25	62.969	62.969	70.838	70.838	73.461	73.461	105.090	105.090	120.831	120.831	129.191	129.191	137.550	137.550
27	61.359	61.359	69.392	69.392	72.070	72.070	101.035	101.035	117.101	117.101	125.047	125.047	132.994	132.994

R22 MODELS
(HEATPUMP)

MODEL : ADB500BR4 / AMC125BR x 4
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	147.607	86.178	137.963	78.716	128.319	71.253	118.675	63.791	109.031	56.329	97.458	47.374
	16	155.749	81.056	144.701	74.174	133.652	67.292	122.604	60.410	111.555	53.529	98.297	45.270
24	16	155.749	109.035	144.701	102.154	133.652	95.272	122.604	88.390	111.555	81.508	98.297	73.250
	17	163.892	103.913	151.439	97.612	138.986	91.311	126.533	85.009	114.080	78.708	99.137	71.147
	18	172.034	98.791	158.177	93.070	144.320	87.350	130.462	81.629	116.605	75.908	99.977	69.043
	19	180.176	93.669	164.915	88.529	149.653	83.389	134.392	78.248	119.130	73.108	100.816	66.940
	20	188.401	88.516	172.417	83.697	156.433	78.879	140.449	74.060	124.465	69.241	105.285	63.459
28	18	172.034	126.771	158.177	121.050	144.320	115.329	130.462	109.609	116.605	103.888	99.977	97.023
	19	180.176	121.649	164.915	116.508	149.653	111.368	134.392	106.228	119.130	101.088	100.816	94.919
	20	188.401	116.496	172.417	111.677	156.433	106.858	140.449	102.040	124.465	97.221	105.285	91.439
	21	196.680	111.322	180.428	106.652	164.177	101.982	147.926	97.313	131.674	92.643	112.173	87.040
	22	204.958	106.148	188.440	101.627	171.921	97.107	155.402	92.586	138.883	88.065	119.061	82.640
	23	213.237	100.974	196.451	96.602	179.665	92.231	162.878	87.859	146.092	83.487	125.948	78.241
	24	221.516	95.800	204.462	91.578	187.408	87.355	170.355	83.132	153.301	78.910	132.836	73.842
30	20	188.401	130.485	172.417	125.667	156.433	120.848	140.449	116.029	124.465	111.211	105.428	105.428
	21	196.680	125.312	180.428	120.642	164.177	115.972	147.926	111.303	131.674	106.633	112.173	101.029
	22	204.958	120.138	188.440	115.617	171.921	111.096	155.402	106.576	138.883	102.055	119.061	96.630
	23	213.237	114.964	196.451	110.592	179.665	106.221	162.878	101.849	146.092	97.477	125.948	92.231
	24	221.516	109.790	204.462	105.567	187.408	101.345	170.355	97.122	153.301	92.899	132.836	87.832

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	88.437	88.437	102.332	102.332	106.963	106.963	157.908	157.908	185.697	185.697	199.591	199.591	213.485	213.485
17	88.282	88.282	100.904	100.904	105.112	105.112	152.166	152.166	180.730	180.730	194.074	194.074	207.418	207.418
19	88.127	88.127	99.477	99.477	103.260	103.260	146.423	146.423	175.762	175.762	188.557	188.557	201.352	201.352
21	87.972	87.972	98.049	98.049	101.408	101.408	140.680	140.680	170.795	170.795	183.040	183.040	195.285	195.285
23	85.839	85.839	96.128	96.128	99.557	99.557	138.786	138.786	165.828	165.828	177.523	177.523	189.218	189.218
25	83.707	83.707	94.206	94.206	97.705	97.705	136.893	136.893	160.861	160.861	172.006	172.006	183.151	183.151
27	81.575	81.575	92.284	92.284	95.854	95.854	134.999	134.999	155.894	155.894	166.489	166.489	177.084	177.084

R22 MODELS
(HEATPUMP)

MODEL : ADSB200BR2 / AMC100BR x 2
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	50.853	24.995	49.023	24.290	47.194	23.585	45.364	22.879	43.534	22.174	41.339	21.328
	16	57.304	24.671	54.274	23.787	51.244	22.904	48.213	22.020	45.183	21.136	41.547	20.076
24	16	57.304	35.664	54.274	34.780	51.244	33.897	48.213	33.013	45.183	32.129	41.547	31.069
	17	63.756	35.340	59.525	34.278	55.294	33.216	51.063	32.154	46.832	31.092	41.755	29.817
	18	70.207	35.016	64.776	33.775	59.344	32.535	53.912	31.294	48.481	30.054	41.963	28.565
	19	76.659	34.692	70.026	33.273	63.394	31.854	56.762	30.435	50.130	29.016	42.171	27.313
	20	83.149	34.359	75.644	32.685	68.139	31.011	60.633	29.337	53.128	27.663	44.121	25.655
28	18	70.207	46.009	64.776	44.768	59.344	43.528	53.912	42.287	48.481	41.047	41.963	39.558
	19	76.659	45.685	70.026	44.266	63.394	42.847	56.762	41.428	50.130	40.009	42.171	38.306
	20	83.149	45.352	75.644	43.678	68.139	42.004	60.633	40.330	53.128	38.656	44.121	36.648
	21	89.666	45.012	81.506	43.033	73.346	41.053	65.186	39.074	57.026	37.094	47.234	34.719
	22	96.183	44.673	87.368	42.388	78.553	40.102	69.739	37.817	60.924	35.532	50.346	32.789
	23	102.700	44.334	93.231	41.743	83.761	39.152	74.291	36.560	64.821	33.969	53.458	30.860
	24	109.217	43.995	99.093	41.098	88.968	38.201	78.844	35.304	68.719	32.407	56.570	28.931
30	20	83.149	50.848	75.644	49.174	68.139	47.501	60.633	45.827	53.128	44.153	44.121	42.144
	21	89.666	50.509	81.506	48.529	73.346	46.550	65.186	44.570	57.026	42.591	47.234	40.215
	22	96.183	50.170	87.368	47.884	78.553	45.599	69.739	43.314	60.924	41.028	50.346	38.286
	23	102.700	49.830	93.231	47.239	83.761	44.648	74.291	42.057	64.821	39.466	53.458	36.356
	24	109.217	49.491	99.093	46.594	88.968	43.697	78.844	40.800	68.719	37.903	56.570	34.427

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	33.260	33.260	38.472	38.472	40.209	40.209	59.319	59.319	69.742	69.742	74.954	74.954	80.166	80.166
17	33.205	33.205	37.936	37.936	39.513	39.513	58.413	58.413	67.877	67.877	72.882	72.882	77.888	77.888
19	33.150	33.150	37.401	37.401	38.818	38.818	57.506	57.506	66.012	66.012	70.811	70.811	75.610	75.610
21	33.095	33.095	36.865	36.865	38.122	38.122	56.600	56.600	64.146	64.146	68.739	68.739	73.331	73.331
23	32.290	32.290	36.142	36.142	37.426	37.426	54.573	54.573	62.281	62.281	66.667	66.667	71.053	71.053
25	31.485	31.485	35.419	35.419	36.731	36.731	52.545	52.545	60.416	60.416	64.595	64.595	68.775	68.775
27	30.679	30.679	34.696	34.696	36.035	36.035	50.517	50.517	58.550	58.550	62.524	62.524	66.497	66.497

R22 MODELS
(HEATPUMP)

MODEL : ADSB250BR2 / AMC125BR x 2
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	75.134	42.858	70.056	38.871	64.978	34.883	59.900	30.896	54.822	26.909	48.729	22.125
	16	78.903	39.994	73.181	36.355	67.459	32.717	61.737	29.078	56.015	25.439	49.149	21.073
24	16	78.903	54.917	73.181	51.278	67.459	47.639	61.737	44.001	56.015	40.362	49.149	35.995
	17	82.672	52.053	76.306	48.763	69.940	45.473	63.574	42.182	57.208	38.892	49.568	34.944
	18	86.440	49.190	79.430	46.248	72.420	43.306	65.410	40.364	58.400	37.422	49.988	33.892
	19	90.209	46.326	82.555	43.733	74.901	41.139	67.247	38.546	59.593	35.952	50.408	32.840
	20	94.019	43.447	86.062	41.073	78.105	38.698	70.148	36.324	62.191	33.949	52.642	31.100
28	18	86.440	64.112	79.430	61.170	72.420	58.228	65.410	55.287	58.400	52.345	49.988	48.815
	19	90.209	61.248	82.555	58.655	74.901	56.062	67.247	53.468	59.593	50.875	50.408	47.763
	20	94.019	58.369	86.062	55.995	78.105	53.621	70.148	51.246	62.191	48.872	52.642	46.022
	21	97.856	55.480	89.823	53.238	81.791	50.997	73.758	48.755	65.725	46.513	56.086	43.823
	22	101.693	52.591	93.585	50.482	85.477	48.372	77.368	46.263	69.260	44.154	59.530	41.623
	23	105.530	49.701	97.346	47.725	89.162	45.748	80.979	43.772	72.795	41.796	62.974	39.424
	24	109.367	46.812	101.108	44.968	92.848	43.124	84.589	41.281	76.329	39.437	66.418	37.224
30	20	94.019	65.831	86.062	63.456	78.105	61.082	70.148	58.707	62.191	56.333	53.484	53.484
	21	97.856	62.941	89.823	60.699	81.791	58.458	73.758	56.216	65.725	53.974	56.086	51.284
	22	101.693	60.052	93.585	57.943	85.477	55.834	77.368	53.725	69.260	51.615	59.530	49.085
	23	105.530	57.162	97.346	55.186	89.162	53.210	80.979	51.233	72.795	49.257	62.974	46.885
	24	109.367	54.273	101.108	52.429	92.848	50.586	84.589	48.742	76.329	46.898	66.418	44.685

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	44.219	44.219	51.166	51.166	53.482	53.482	78.954	78.954	92.848	92.848	99.795	99.795	106.743	106.743
17	44.141	44.141	50.452	50.452	52.556	52.556	76.083	76.083	90.365	90.365	97.037	97.037	103.709	103.709
19	44.064	44.064	49.738	49.738	51.630	51.630	73.211	73.211	87.881	87.881	94.278	94.278	100.676	100.676
21	43.986	43.986	49.025	49.025	50.704	50.704	70.340	70.340	85.398	85.398	91.520	91.520	97.642	97.642
23	42.920	42.920	48.064	48.064	49.778	49.778	69.393	69.393	82.914	82.914	88.762	88.762	94.609	94.609
25	41.854	41.854	47.103	47.103	48.853	48.853	68.446	68.446	80.430	80.430	86.003	86.003	91.576	91.576
27	40.787	40.787	46.142	46.142	47.927	47.927	67.500	67.500	77.947	77.947	83.245	83.245	88.542	88.542

R22 MODELS
(HEATPUMP)

MODEL : ADSB300BR3 / AMC100BR x 3
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	74.809	37.748	72.347	36.973	69.885	36.198	67.424	35.423	64.962	34.648	62.008	33.718
	16	84.820	37.596	80.493	36.489	76.166	35.382	71.839	34.275	67.513	33.168	62.320	31.840
24	16	84.820	53.055	80.493	51.948	76.166	50.841	71.839	49.734	67.513	48.627	62.320	47.299
	17	94.831	52.903	88.639	51.464	82.447	50.026	76.255	48.587	70.063	47.148	62.632	45.421
	18	104.843	52.752	96.785	50.981	88.728	49.210	80.671	47.439	72.613	45.668	62.944	43.543
	19	114.854	52.600	104.932	50.497	95.009	48.394	85.086	46.291	75.164	44.189	63.256	41.665
	20	124.925	52.434	113.628	49.885	102.331	47.336	91.035	44.786	79.738	42.237	66.182	39.178
28	18	104.843	68.211	96.785	66.440	88.728	64.669	80.671	62.898	72.613	61.127	62.944	59.002
	19	114.854	68.059	104.932	65.956	95.009	63.853	85.086	61.751	75.164	59.648	63.256	57.124
	20	124.925	67.893	113.628	65.344	102.331	62.795	91.035	60.245	79.738	57.696	66.182	54.637
	21	135.034	67.719	122.691	64.646	110.348	61.574	98.005	58.502	85.662	55.430	70.850	51.743
	22	145.144	67.544	131.754	63.949	118.365	60.353	104.975	56.758	91.586	53.163	75.519	48.849
	23	155.254	67.369	140.818	63.251	126.382	59.133	111.946	55.015	97.510	50.897	80.187	45.955
	24	165.363	67.194	149.881	62.553	134.399	57.912	118.916	53.271	103.434	48.630	84.855	43.061
30	20	124.925	75.623	113.628	73.073	102.331	70.524	91.035	67.975	79.738	65.426	66.182	62.366
	21	135.034	75.448	122.691	72.376	110.348	69.304	98.005	66.231	85.662	63.159	70.850	59.472
	22	145.144	75.273	131.754	71.678	118.365	68.083	104.975	64.488	91.586	60.893	75.519	56.578
	23	155.254	75.099	140.818	70.981	126.382	66.862	111.946	62.744	97.510	58.626	80.187	53.684
	24	165.363	74.924	149.881	70.283	134.399	65.642	118.916	61.001	103.434	56.360	84.855	50.790

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	49.890	49.890	57.708	57.708	60.313	60.313	88.978	88.978	104.613	104.613	112.431	112.431	120.249	120.249
17	49.807	49.807	56.904	56.904	59.270	59.270	87.619	87.619	101.815	101.815	109.323	109.323	116.832	116.832
19	49.725	49.725	56.101	56.101	58.226	58.226	86.260	86.260	99.017	99.017	106.216	106.216	113.414	113.414
21	49.642	49.642	55.298	55.298	57.183	57.183	84.900	84.900	96.220	96.220	103.108	103.108	109.997	109.997
23	48.435	48.435	54.213	54.213	56.139	56.139	81.859	81.859	93.422	93.422	100.001	100.001	106.580	106.580
25	47.227	47.227	53.129	53.129	55.096	55.096	78.818	78.818	90.624	90.624	96.893	96.893	103.163	103.163
27	46.019	46.019	52.044	52.044	54.052	54.052	75.776	75.776	87.826	87.826	93.786	93.786	99.746	99.746

R22 MODELS
(HEATPUMP)

MODEL : ADSB350BR3 / AMC100BR x 1 + AMC125BR x 2
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	97.494	54.210	92.091	50.523	86.688	46.836	81.285	43.149	75.882	39.462	69.398	35.038
	16	105.186	51.568	98.404	48.064	91.623	44.559	84.841	41.055	78.060	37.550	69.922	33.345
24	16	105.186	70.634	98.404	67.130	91.623	63.626	84.841	60.121	78.060	56.617	69.922	52.411
	17	112.877	67.993	104.717	64.671	96.557	61.349	88.398	58.027	80.238	54.705	70.446	50.719
	18	120.568	65.351	111.030	62.212	101.492	59.072	91.954	55.933	82.416	52.793	70.970	49.026
	19	128.260	62.709	117.343	59.752	106.427	56.795	95.510	53.838	84.593	50.881	71.494	47.333
	20	136.012	60.046	124.222	57.095	112.431	54.144	100.641	51.192	88.851	48.241	74.703	44.700
28	18	120.568	84.417	111.030	81.278	101.492	78.138	91.954	74.999	82.416	71.859	70.970	68.092
	19	128.260	81.776	117.343	78.819	106.427	75.862	95.510	72.905	84.593	69.948	71.494	66.399
	20	136.012	79.113	124.222	76.161	112.431	73.210	100.641	70.259	88.851	67.307	74.703	63.766
	21	143.804	76.436	131.477	73.372	119.150	70.309	106.823	67.245	94.496	64.182	79.703	60.506
	22	151.596	73.758	138.732	70.583	125.868	67.407	113.004	64.232	100.140	61.056	84.703	57.245
	23	159.389	71.081	145.988	67.794	132.587	64.506	119.185	61.218	105.784	57.930	89.703	53.985
	24	167.181	68.404	153.243	65.004	139.305	61.605	125.367	58.205	111.429	54.805	94.703	50.725
30	20	136.012	88.646	124.222	85.694	112.431	82.743	100.641	79.792	88.851	76.841	74.703	73.299
	21	143.804	85.969	131.477	82.905	119.150	79.842	106.823	76.778	94.496	73.715	79.703	70.039
	22	151.596	83.292	138.732	80.116	125.868	76.940	113.004	73.765	100.140	70.589	84.703	66.778
	23	159.389	80.615	145.988	77.327	132.587	74.039	119.185	70.751	105.784	67.464	89.703	63.518
	24	167.181	77.938	153.243	74.538	139.305	71.138	125.367	67.738	111.429	64.338	94.703	60.258

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	60.849	60.849	70.402	70.402	73.586	73.586	108.614	108.614	127.720	127.720	137.273	137.273	146.825	146.825
17	60.744	60.744	69.420	69.420	72.312	72.312	105.289	105.289	124.303	124.303	133.478	133.478	142.653	142.653
19	60.639	60.639	68.439	68.439	71.039	71.039	101.965	101.965	120.887	120.887	129.684	129.684	138.481	138.481
21	60.533	60.533	67.457	67.457	69.765	69.765	98.640	98.640	117.471	117.471	125.889	125.889	134.308	134.308
23	59.065	59.065	66.135	66.135	68.492	68.492	96.680	96.680	114.055	114.055	122.095	122.095	130.136	130.136
25	57.596	57.596	64.812	64.812	67.218	67.218	94.719	94.719	110.638	110.638	118.301	118.301	125.963	125.963
27	56.127	56.127	63.490	63.490	65.944	65.944	92.758	92.758	107.222	107.222	114.506	114.506	121.791	121.791

R22 MODELS
(HEATPUMP)

MODEL : ADSB400BR4 / AMC100BR x 4
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	99.745	50.331	96.463	49.297	93.181	48.264	89.899	47.231	86.616	46.197	82.678	44.957
	16	113.093	50.128	107.324	48.652	101.555	47.176	95.786	45.700	90.017	44.225	83.094	42.453
24	16	113.093	70.740	107.324	69.264	101.555	67.788	95.786	66.313	90.017	64.837	83.094	63.066
	17	126.442	70.538	118.186	68.619	109.930	66.701	101.673	64.782	93.417	62.864	83.510	60.562
	18	139.790	70.335	129.047	67.974	118.304	65.613	107.561	63.252	96.818	60.891	83.926	58.058
	19	153.139	70.133	139.909	67.329	126.679	64.526	113.448	61.722	100.218	58.918	84.342	55.554
	20	166.566	69.912	151.504	66.513	136.442	63.114	121.380	59.715	106.317	56.316	88.243	52.237
28	18	139.790	90.947	129.047	88.586	118.304	86.225	107.561	83.864	96.818	81.503	83.926	78.670
	19	153.139	90.745	139.909	87.941	126.679	85.138	113.448	82.334	100.218	79.530	84.342	76.166
	20	166.566	90.524	151.504	87.125	136.442	83.726	121.380	80.327	106.317	76.928	88.243	72.849
	21	180.046	90.291	163.588	86.195	147.131	82.099	130.673	78.002	114.216	73.906	94.467	68.990
	22	193.525	90.058	175.673	85.265	157.820	80.471	139.967	75.678	122.115	70.884	100.691	65.132
	23	207.005	89.826	187.757	84.335	168.509	78.844	149.261	73.353	130.013	67.862	106.916	61.273
	24	220.484	89.593	199.841	83.405	179.198	77.216	158.555	71.028	137.912	64.840	113.140	57.414
30	20	166.566	100.830	151.504	97.431	136.442	94.032	121.380	90.633	106.317	87.234	88.243	83.155
	21	180.046	100.597	163.588	96.501	147.131	92.405	130.673	88.308	114.216	84.212	94.467	79.296
	22	193.525	100.365	175.673	95.571	157.820	90.777	139.967	85.984	122.115	81.190	100.691	75.438
	23	207.005	100.132	187.757	94.641	168.509	89.150	149.261	83.659	130.013	78.168	106.916	71.579
	24	220.484	99.899	199.841	93.711	179.198	87.522	158.555	81.334	137.912	75.146	113.140	67.721

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	66.520	66.520	76.943	76.943	80.418	80.418	118.638	118.638	139.485	139.485	149.908	149.908	160.332	160.332
17	66.410	66.410	75.872	75.872	79.027	79.027	116.825	116.825	135.754	135.754	145.765	145.765	155.775	155.775
19	66.300	66.300	74.801	74.801	77.635	77.635	115.013	115.013	132.023	132.023	141.621	141.621	151.219	151.219
21	66.190	66.190	73.730	73.730	76.244	76.244	113.200	113.200	128.293	128.293	137.478	137.478	146.663	146.663
23	64.580	64.580	72.284	72.284	74.853	74.853	109.145	109.145	124.562	124.562	133.334	133.334	142.107	142.107
25	62.969	62.969	70.838	70.838	73.461	73.461	105.090	105.090	120.831	120.831	129.191	129.191	137.550	137.550
27	61.359	61.359	69.392	69.392	72.070	72.070	101.035	101.035	117.101	117.101	125.047	125.047	132.994	132.994

R22 MODELS
(HEATPUMP)

MODEL : ADSB500BR4 / AMC125BR x 4
COOLING MODE

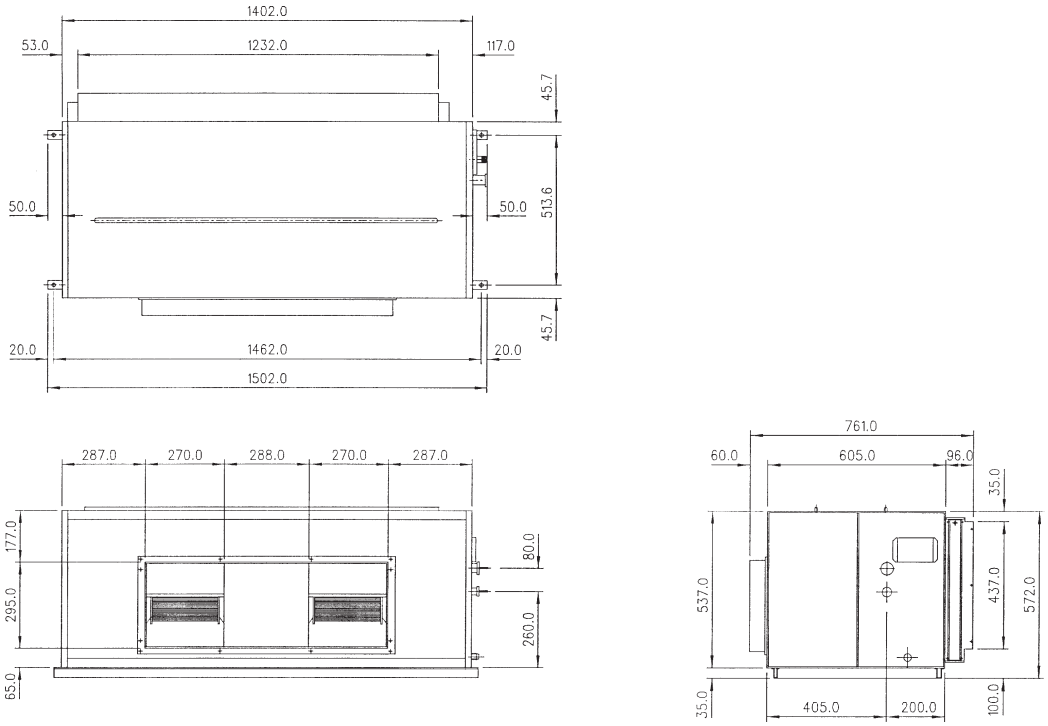
ID DB°C	ID WB°C	Outdoor DB°C											
		20		25		30		35		40		46	
		TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
20	15	147.607	86.178	137.963	78.716	128.319	71.253	118.675	63.791	109.031	56.329	97.458	47.374
	16	155.749	81.056	144.701	74.174	133.652	67.292	122.604	60.410	111.555	53.529	98.297	45.270
24	16	155.749	109.035	144.701	102.154	133.652	95.272	122.604	88.390	111.555	81.508	98.297	73.250
	17	163.892	103.913	151.439	97.612	138.986	91.311	126.533	85.009	114.080	78.708	99.137	71.147
	18	172.034	98.791	158.177	93.070	144.320	87.350	130.462	81.629	116.605	75.908	99.977	69.043
	19	180.176	93.669	164.915	88.529	149.653	83.389	134.392	78.248	119.130	73.108	100.816	66.940
	20	188.401	88.516	172.417	83.697	156.433	78.879	140.449	74.060	124.465	69.241	105.285	63.459
28	18	172.034	126.771	158.177	121.050	144.320	115.329	130.462	109.609	116.605	103.888	99.977	97.023
	19	180.176	121.649	164.915	116.508	149.653	111.368	134.392	106.228	119.130	101.088	100.816	94.919
	20	188.401	116.496	172.417	111.677	156.433	106.858	140.449	102.040	124.465	97.221	105.285	91.439
	21	196.680	111.322	180.428	106.652	164.177	101.982	147.926	97.313	131.674	92.643	112.173	87.040
	22	204.958	106.148	188.440	101.627	171.921	97.107	155.402	92.586	138.883	88.065	119.061	82.640
	23	213.237	100.974	196.451	96.602	179.665	92.231	162.878	87.859	146.092	83.487	125.948	78.241
	24	221.516	95.800	204.462	91.578	187.408	87.355	170.355	83.132	153.301	78.910	132.836	73.842
30	20	188.401	130.485	172.417	125.667	156.433	120.848	140.449	116.029	124.465	111.211	105.428	105.428
	21	196.680	125.312	180.428	120.642	164.177	115.972	147.926	111.303	131.674	106.633	112.173	101.029
	22	204.958	120.138	188.440	115.617	171.921	111.096	155.402	106.576	138.883	102.055	119.061	96.630
	23	213.237	114.964	196.451	110.592	179.665	106.221	162.878	101.849	146.092	97.477	125.948	92.231
	24	221.516	109.790	204.462	105.567	187.408	101.345	170.355	97.122	153.301	92.899	132.836	87.832

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	88.437	88.437	102.332	102.332	106.963	106.963	157.908	157.908	185.697	185.697	199.591	199.591	213.485	213.485	
17	88.282	88.282	100.904	100.904	105.112	105.112	152.166	152.166	180.730	180.730	194.074	194.074	207.418	207.418	
19	88.127	88.127	99.477	99.477	103.260	103.260	146.423	146.423	175.762	175.762	188.557	188.557	201.352	201.352	
21	87.972	87.972	98.049	98.049	101.408	101.408	140.680	140.680	170.795	170.795	183.040	183.040	195.285	195.285	
23	85.839	85.839	96.128	96.128	99.557	99.557	138.786	138.786	165.828	165.828	177.523	177.523	189.218	189.218	
25	83.707	83.707	94.206	94.206	97.705	97.705	136.893	136.893	160.861	160.861	172.006	172.006	183.151	183.151	
27	81.575	81.575	92.284	92.284	95.854	95.854	134.999	134.999	155.894	155.894	166.489	166.489	177.084	177.084	

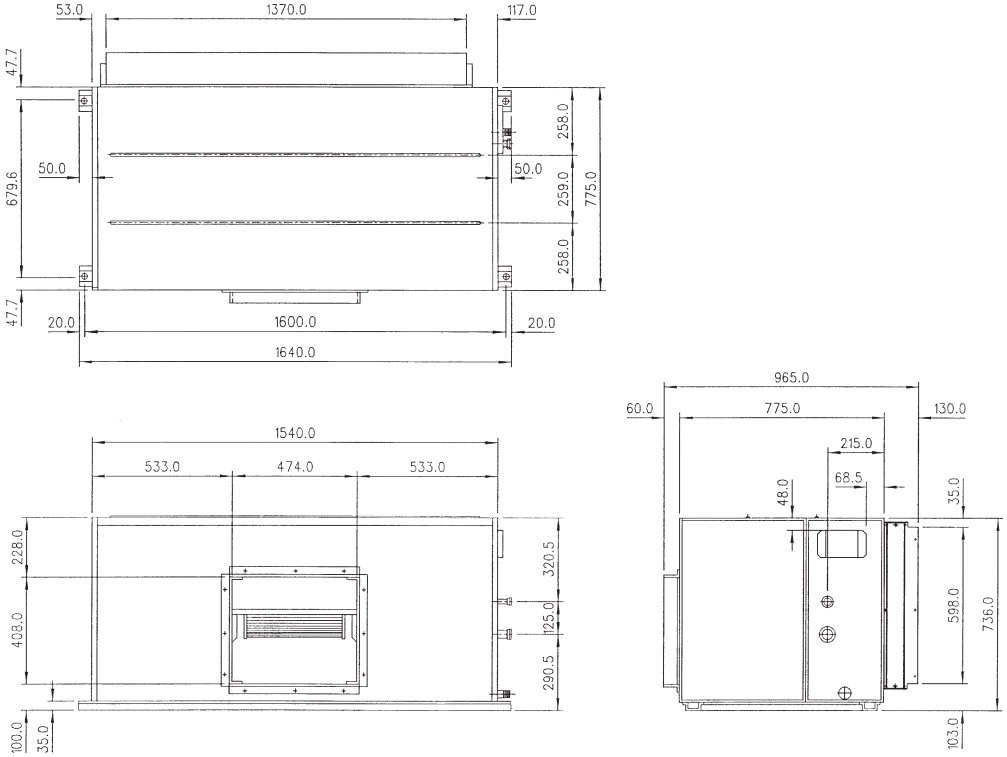
8. DIMENSIONAL DATA

INDOOR
MODEL: ADB 75/100 BR (HORIZONTAL AIR DISCHARGE ONLY)



Dimension in mm

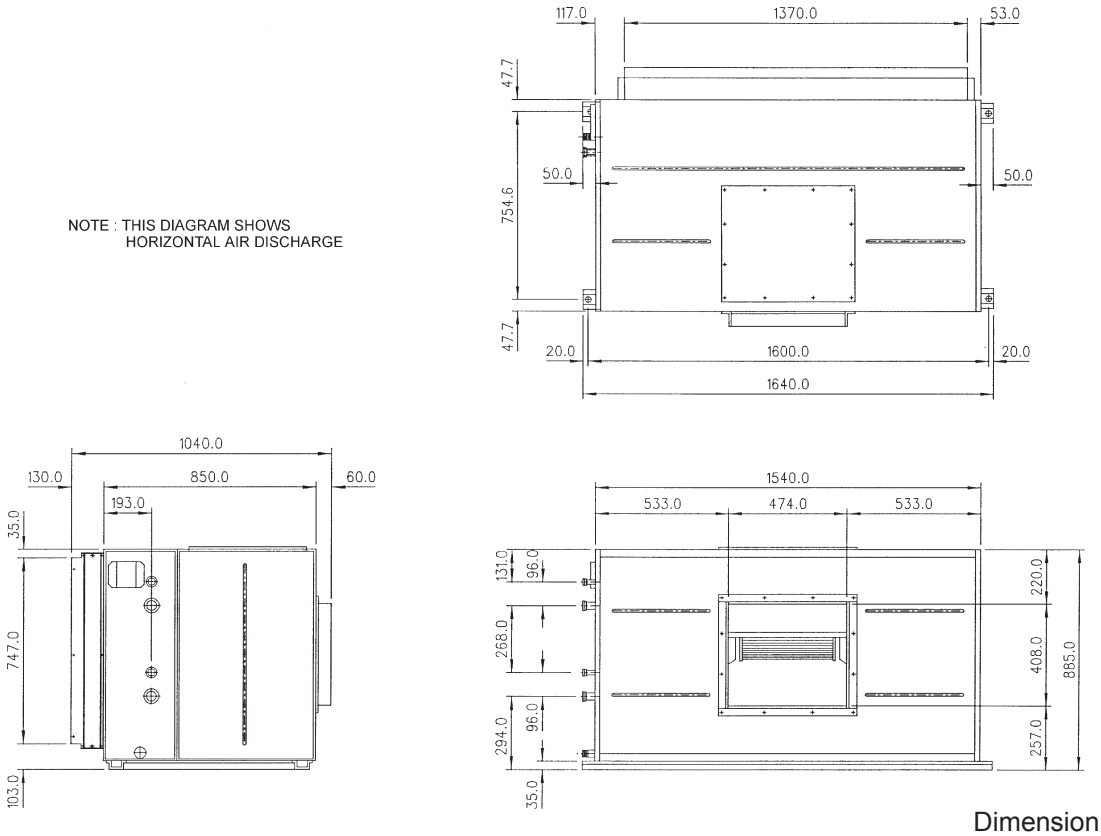
MODEL: ADB 125CR (HORIZONTAL AIR DISCHARGE ONLY)



Dimension in mm

MODEL: ADB 150BR2 (STANDARD: HORIZONTAL AIR DISCHARGE; OPTIONAL: VERTICAL AIR DISCHARGE)

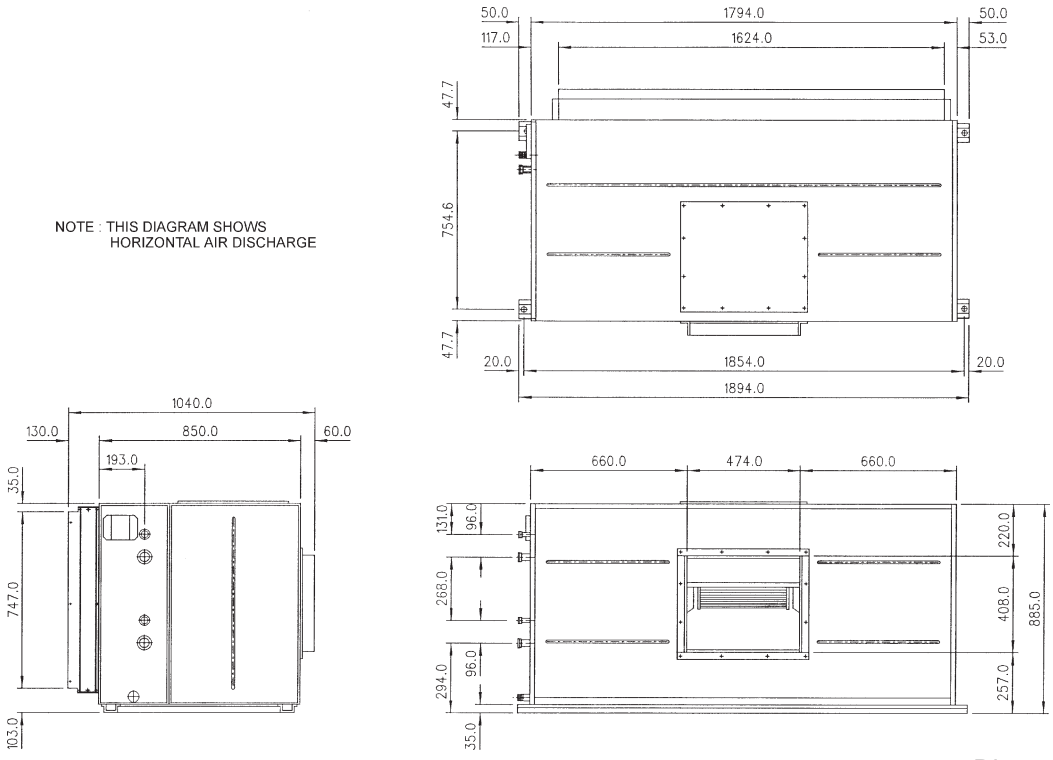
NOTE : THIS DIAGRAM SHOWS
HORIZONTAL AIR DISCHARGE



Dimension in mm

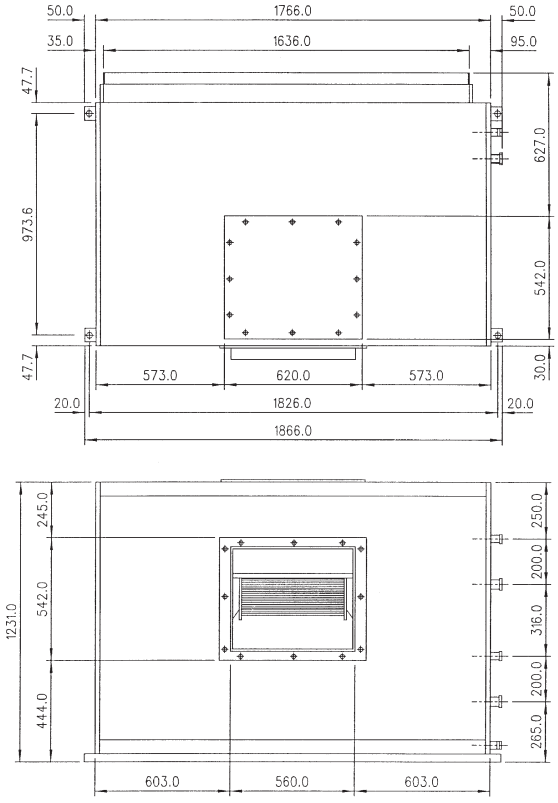
MODEL: ADB 200BR2 (STANDARD: HORIZONTAL AIR DISCHARGE; OPTIONAL: VERTICAL AIR DISCHARGE)

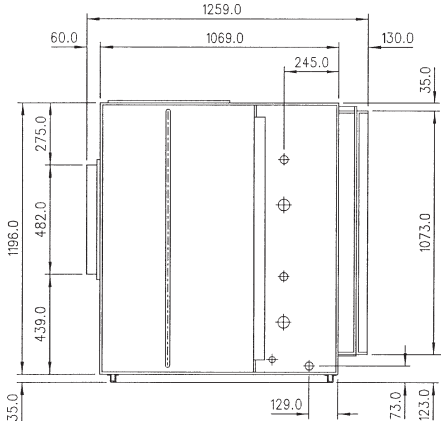
NOTE : THIS DIAGRAM SHOWS
HORIZONTAL AIR DISCHARGE



Dimension in mm

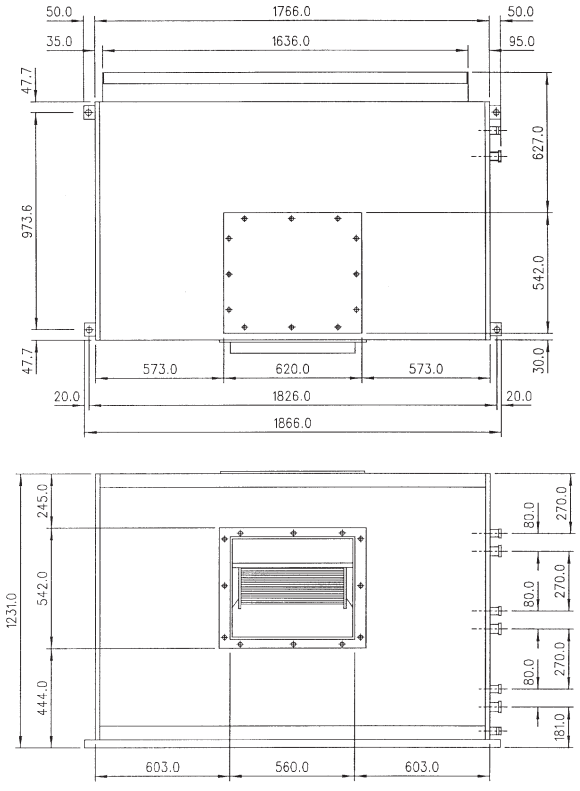
MODEL: ADB 250BR2 (STANDARD: VERTICAL AIR DISCHARGE; OPTIONAL: HORIZONTAL AIR DISCHARGE)

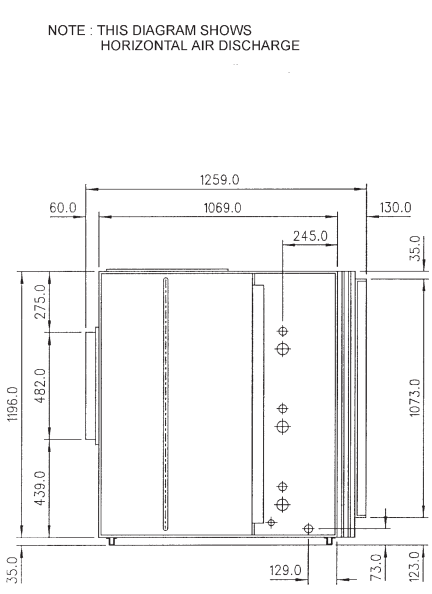




Dimension in mm

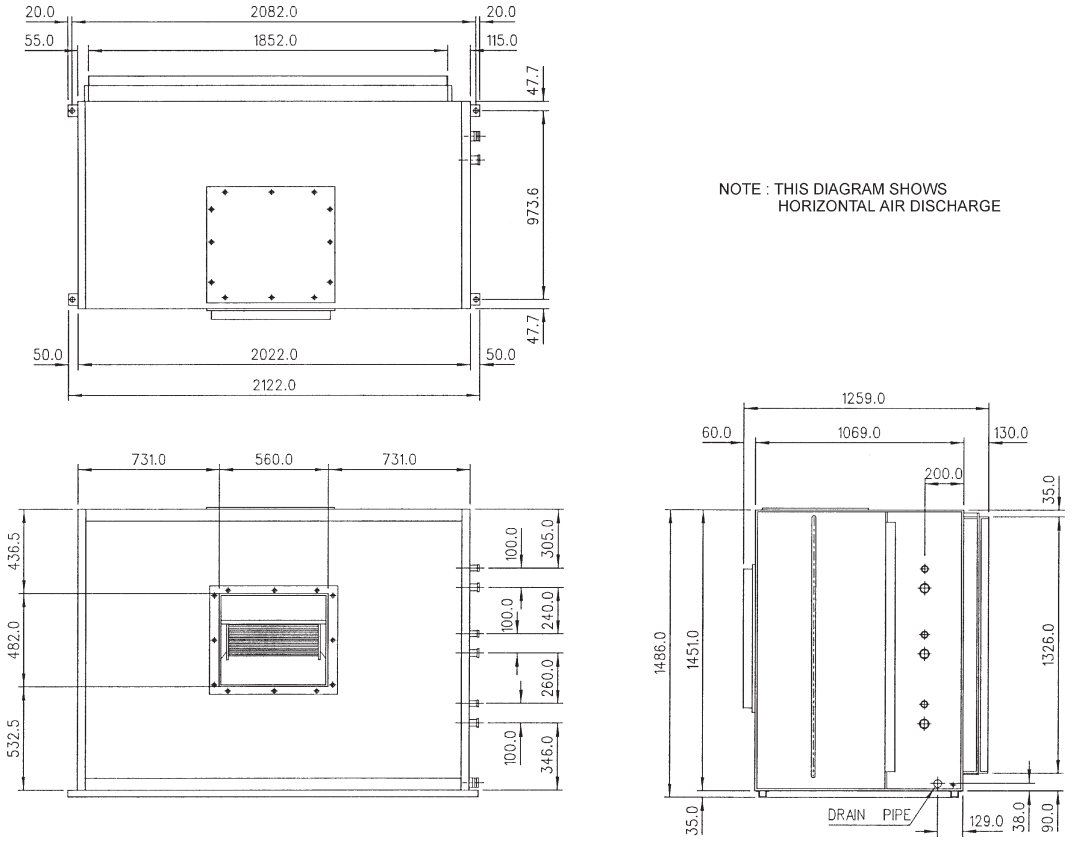
MODEL: ADB 300BR3 (STANDARD: VERTICAL AIR DISCHARGE; OPTIONAL: HORIZONTAL AIR DISCHARGE)





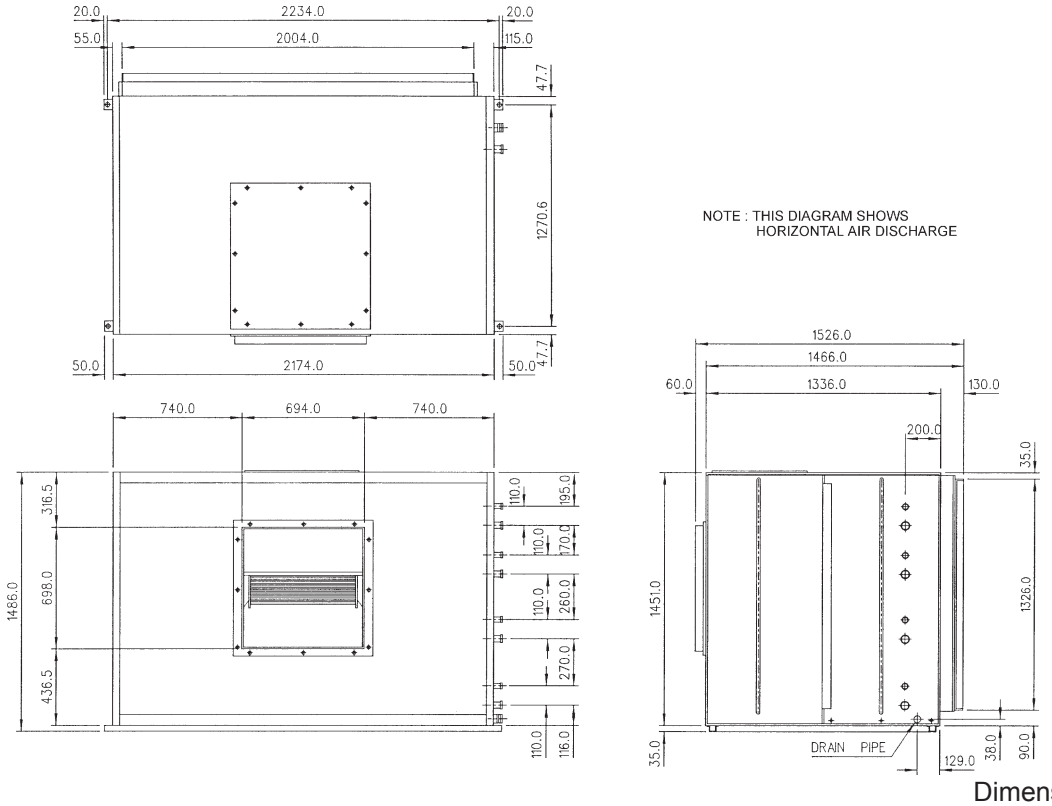
Dimension in mm

MODEL: ADB 350BR3 (STANDARD: VERTICAL AIR DISCHARGE; OPTIONAL: HORIZONTAL AIR DISCHARGE)



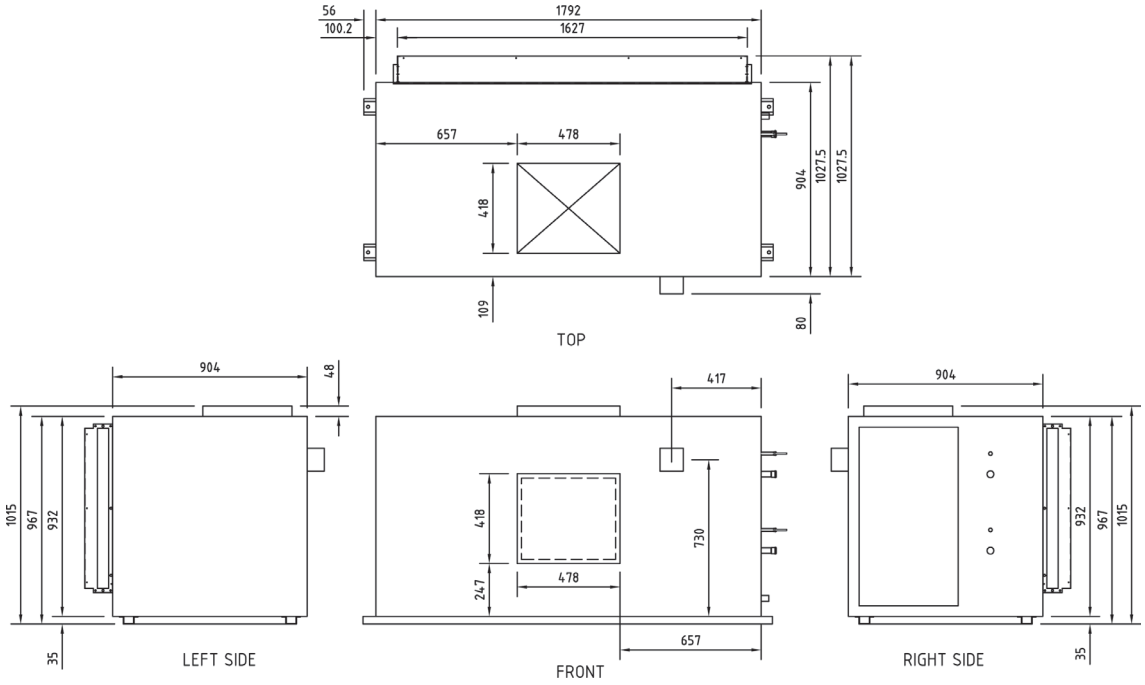
Dimension in mm

MODEL: ADB 400/500 BR4 (STANDARD: VERTICAL AIR DISCHARGE; OPTIONAL: HORIZONTAL AIR DISCHARGE)



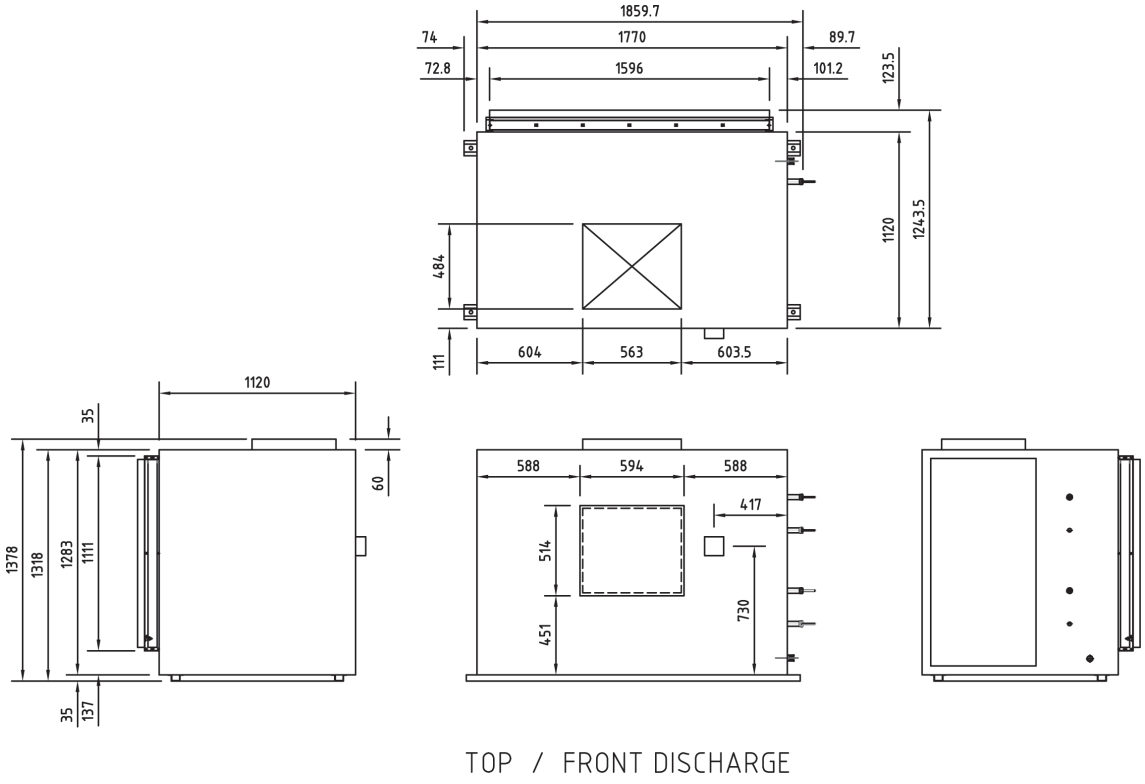
Dimension in mm

MODEL: ADSB 200BR2 (STANDARD: HORIZONTAL AIR DISCHARGE; OPTIONAL: VERTICAL AIR DISCHARGE)



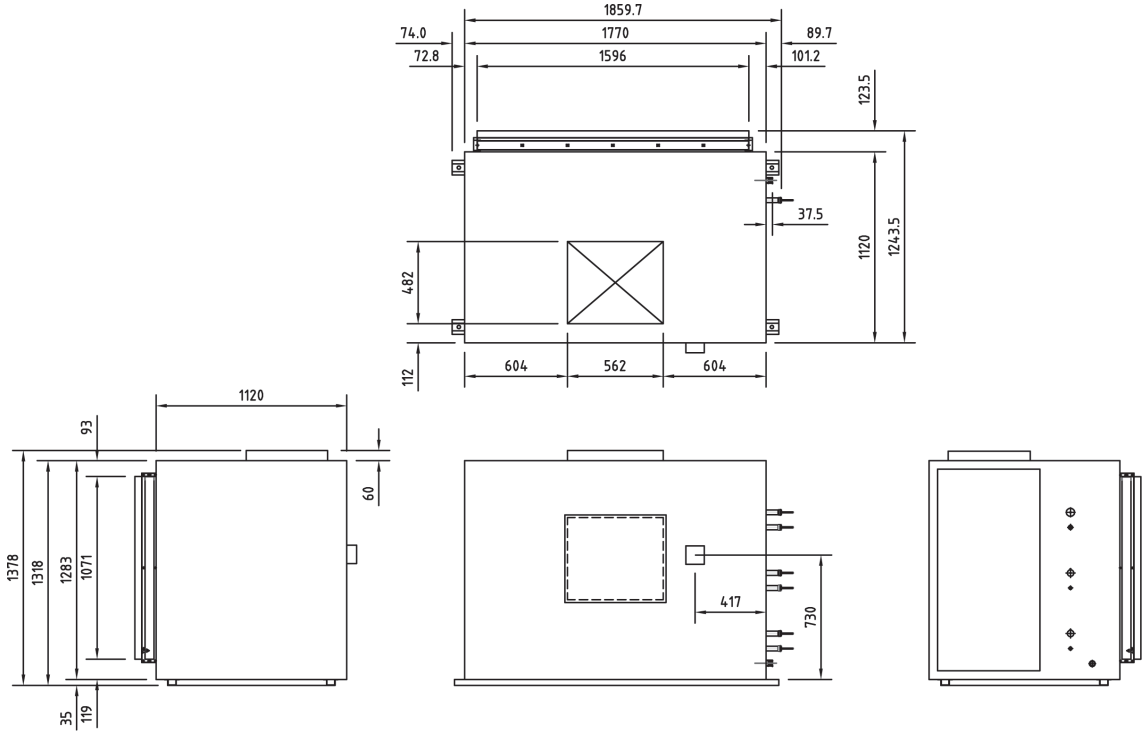
Dimension in mm

MODEL: ADSB 250BR2 (STANDARD: VERTICAL AIR DISCHARGE; OPTIONAL: HORIZONTAL AIR DISCHARGE)



Dimension in mm

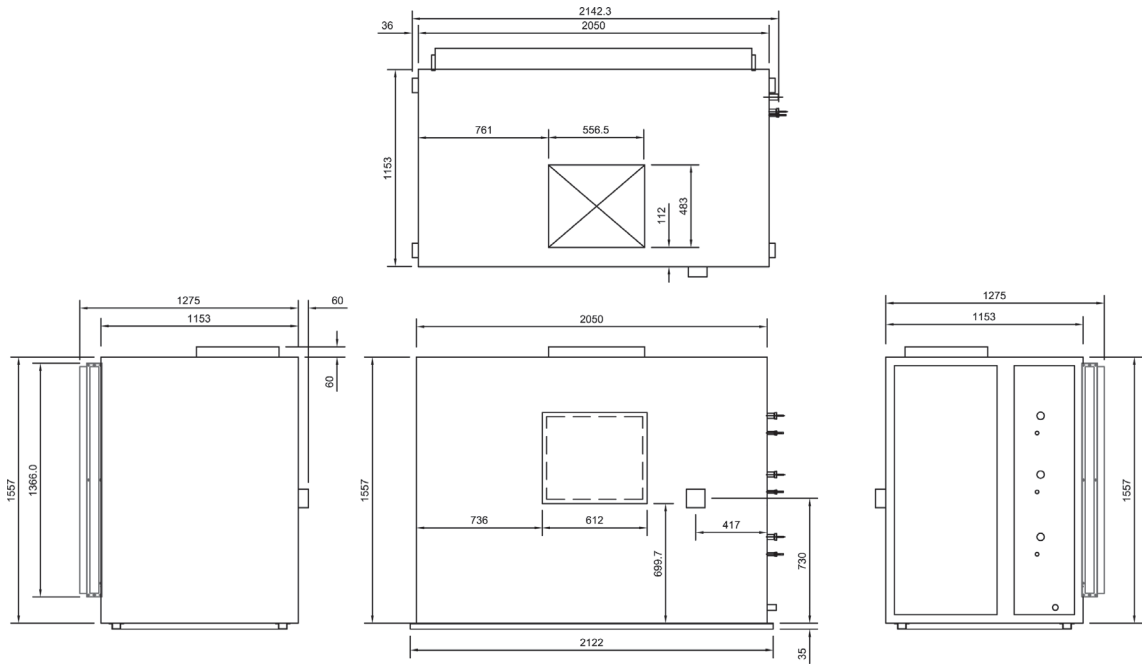
MODEL: ADSB 300BR3 (STANDARD: VERTICAL AIR DISCHARGE; OPTIONAL: HORIZONTAL AIR DISCHARGE)



TOP DISCHARGE

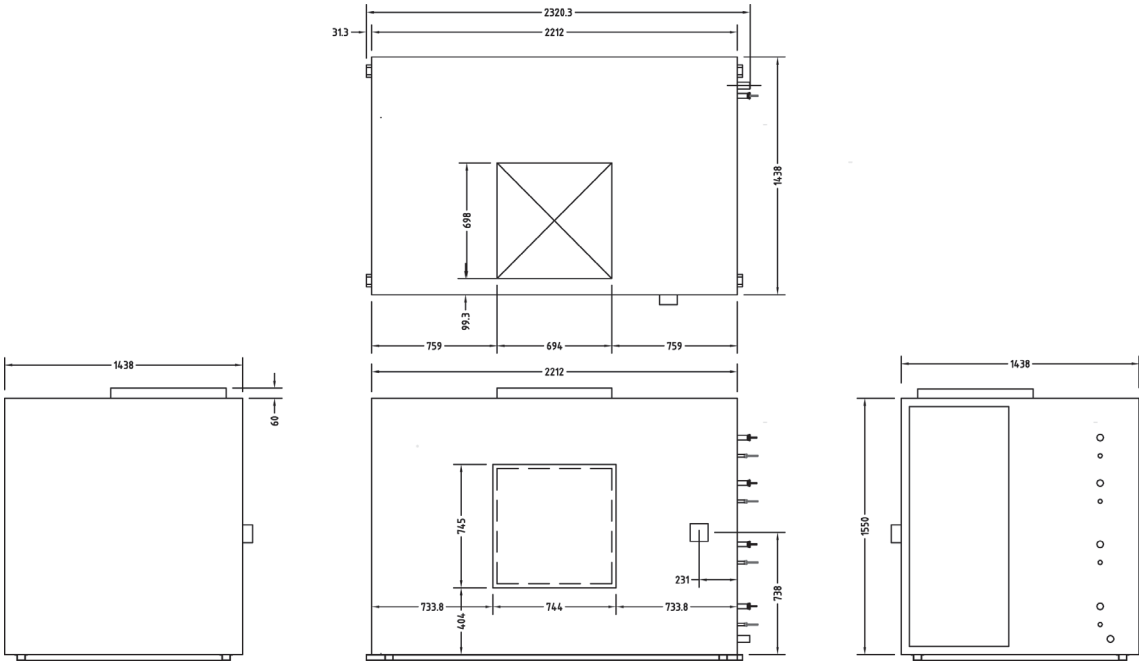
Dimension in mm

MODEL: ADSB 350BR3 (STANDARD: VERTICAL AIR DISCHARGE; OPTIONAL: HORIZONTAL AIR DISCHARGE)



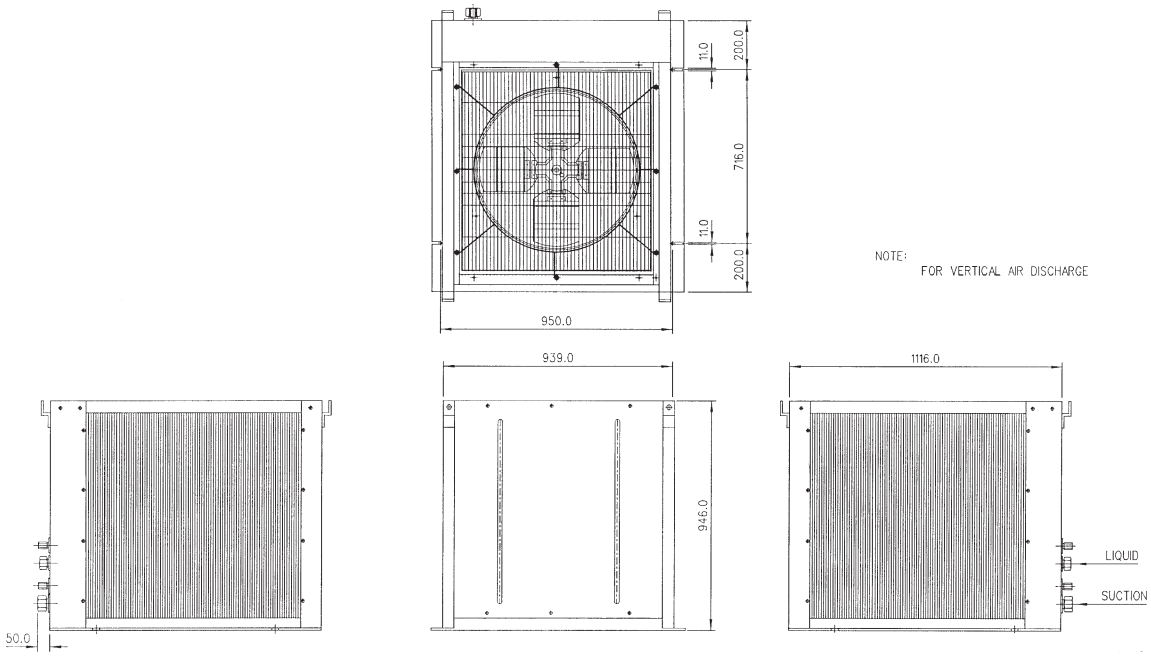
Dimension in mm

MODEL: ADSB 400/500BR4 (STANDARD: VERTICAL AIR DISCHARGE; OPTIONAL: HORIZONTAL AIR DISCHARGE)



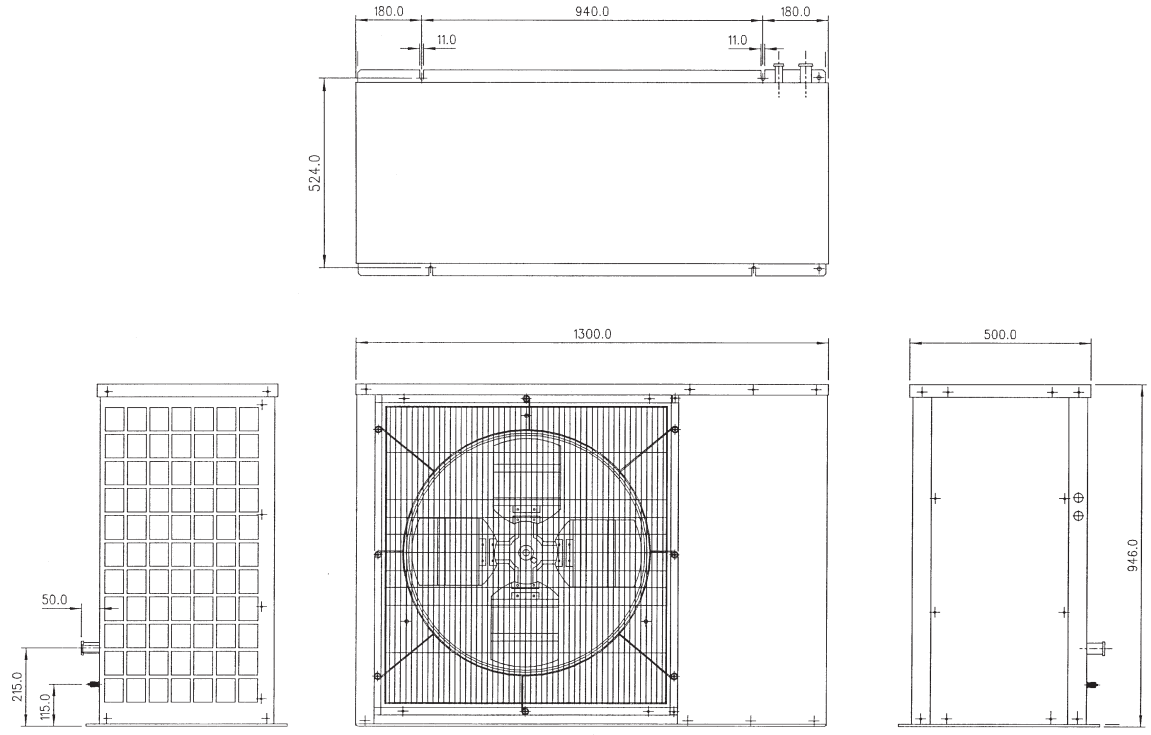
Dimension in mm

OUTDOOR
MODEL: AMC100/125 BR (STANDARD: VERTICAL AIR DISCHARGE;
OPTIONAL: HORIZONTAL AIR DISCHARGE)



Dimension in mm

MODEL: AMC 75CR



Dimension in mm

9. ELECTRICAL DATA

MODEL	INDOOR UNIT		ADB75BR
	OUTDOOR UNIT		AMC75CR
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	220~240 / 1 / 50
	RATED INPUT POWER	W	830
	RATED RUNNING CURRENT	A	3.7
	MOTOR OUTPUT	W	375
	POLES		6
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	220~240 / 1 / 50
	RATED INPUT POWER	W	740
	RATED RUNNING CURRENT	A	3.8
	MOTOR OUTPUT	W	480
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	㎌	NIL
	RATED INPUT POWER (COOLING)	W	6930
	RATED INPUT POWER (HEATING)	W	7530
	RATED RUNNING CURRENT (COOLING)	A	11.7
	RATED RUNNING CURRENT (HEATING)	A	12.0
	LOCKED ROTOR AMP.	A	95.0

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94

MODEL	INDOOR UNIT		ADB100BR
	OUTDOOR UNIT		AMC100BR
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	220~240 / 1 / 50
	RATED INPUT POWER	W	1800
	RATED RUNNING CURRENT	A	8.0
	MOTOR OUTPUT	W	500
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	660
	RATED RUNNING CURRENT	A	1.5
	MOTOR OUTPUT	W	470
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	㎌	NIL
	RATED INPUT POWER (COOLING)	W	8607
	RATED INPUT POWER (HEATING)	W	7865
	RATED RUNNING CURRENT (COOLING)	A	16.0
	RATED RUNNING CURRENT (HEATING)	A	15.2
	LOCKED ROTOR AMP.	A	125.0

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
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Electrical Data - Heatpump

MODEL	INDOOR UNIT		ADB125CR
	OUTDOOR UNIT		AMC125BR
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	1100
	RATED RUNNING CURRENT	A	2.7
	MOTOR OUTPUT	W	1500
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	640
	RATED RUNNING CURRENT	A	1.4
	MOTOR OUTPUT	W	470
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	㎌	NIL
	RATED INPUT POWER (COOLING)	W	9408
	RATED INPUT POWER (HEATING)	W	7736
	RATED RUNNING CURRENT (COOLING)	A	17.0
	RATED RUNNING CURRENT (HEATING)	A	15.1
	LOCKED ROTOR AMP.	A	110.0

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94

MODEL	INDOOR UNIT		ADB150BR2
	OUTDOOR UNIT		AMC75CR x 2
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	1630
	RATED RUNNING CURRENT	A	3.1
	MOTOR OUTPUT	W	1500
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	220~240 / 1 / 50
	RATED INPUT POWER	W	740
	RATED RUNNING CURRENT	A	3.8
	MOTOR OUTPUT	W	480
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	㎌	NIL
	RATED INPUT POWER (COOLING)	W	6930
	RATED INPUT POWER (HEATING)	W	7530
	RATED RUNNING CURRENT (COOLING)	A	11.7
	RATED RUNNING CURRENT (HEATING)	A	12.0
	LOCKED ROTOR AMP.	A	95.0

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
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Electrical Data - Heatpump

MODEL	INDOOR UNIT		ADB200BR2
	OUTDOOR UNIT		AMC100BR x 2
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	2730
	RATED RUNNING CURRENT	A	5.0
	MOTOR OUTPUT	W	3000
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	660
	RATED RUNNING CURRENT	A	1.5
	MOTOR OUTPUT	W	470
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	㎌	NIL
	RATED INPUT POWER (COOLING)	W	8607
	RATED INPUT POWER (HEATING)	W	7865
	RATED RUNNING CURRENT (COOLING)	A	16.0
	RATED RUNNING CURRENT (HEATING)	A	15.2
	LOCKED ROTOR AMP.	A	125.0

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MODEL	INDOOR UNIT		ADB250BR2
	OUTDOOR UNIT		AMC125BR x 2
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	3370
	RATED RUNNING CURRENT	A	6.3
	MOTOR OUTPUT	W	4000
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	640
	RATED RUNNING CURRENT	A	1.4
	MOTOR OUTPUT	W	470
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	㎌	NIL
	RATED INPUT POWER (COOLING)	W	9408
	RATED INPUT POWER (HEATING)	W	7736
	RATED RUNNING CURRENT (COOLING)	A	17.0
	RATED RUNNING CURRENT (HEATING)	A	15.1
	LOCKED ROTOR AMP.	A	110.0

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94

Electrical Data - Heatpump

MODEL	INDOOR UNIT		ADB300BR3
	OUTDOOR UNIT		AMC100BR x 3
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	4000
	RATED RUNNING CURRENT	A	7.1
	MOTOR OUTPUT	W	4000
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	660
	RATED RUNNING CURRENT	A	1.5
	MOTOR OUTPUT	W	470
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	㎌	NIL
	RATED INPUT POWER (COOLING)	W	8607
	RATED INPUT POWER (HEATING)	W	7865
	RATED RUNNING CURRENT (COOLING)	A	16.0
	RATED RUNNING CURRENT (HEATING)	A	15.2
	LOCKED ROTOR AMP.	A	125.0

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94

MODEL	INDOOR UNIT		ADB350BR3	
	OUTDOOR UNIT		AMC100BR x 1	AMC125BR x 2
INDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50	
	RATED INPUT POWER	W	4510	
	RATED RUNNING CURRENT	A	8.4	
	MOTOR OUTPUT	W	5500	
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50	380~415 / 3 / 50
	RATED INPUT POWER	W	660	640
	RATED RUNNING CURRENT	A	1.5	1.4
	MOTOR OUTPUT	W	470	470
COMPRESSOR	INSULATION GRADE		CLASS F	CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50	380~415 / 3 / 50
	CAPACITOR	㎌	NIL	NIL
	RATED INPUT POWER (COOLING)	W	8607	9408
	RATED INPUT POWER (HEATING)	W	7865	7736
	RATED RUNNING CURRENT (COOLING)	A	16.0	17.0
	RATED RUNNING CURRENT (HEATING)	A	15.2	15.1
	LOCKED ROTOR AMP.	A	125.0	110.0

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
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Electrical Data - Heatpump

MODEL	INDOOR UNIT		ADB400BR4
	OUTDOOR UNIT		AMC100BR x 4
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	4835
	RATED RUNNING CURRENT	A	8.7
	MOTOR OUTPUT	W	5500
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	660
	RATED RUNNING CURRENT	A	1.5
	MOTOR OUTPUT	W	470
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	㎌	NIL
	RATED INPUT POWER (COOLING)	W	8607
	RATED INPUT POWER (HEATING)	W	7865
	RATED RUNNING CURRENT (COOLING)	A	16.0
	RATED RUNNING CURRENT (HEATING)	A	15.2
	LOCKED ROTOR AMP.	A	125.0

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
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MODEL	INDOOR UNIT		ADB500BR4
	OUTDOOR UNIT		AMC125BR x 4
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	8035
	RATED RUNNING CURRENT	A	14.7
	MOTOR OUTPUT	W	11000
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	640
	RATED RUNNING CURRENT	A	1.4
	MOTOR OUTPUT	W	470
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	㎌	NIL
	RATED INPUT POWER (COOLING)	W	9408
	RATED INPUT POWER (HEATING)	W	7736
	RATED RUNNING CURRENT (COOLING)	A	17.0
	RATED RUNNING CURRENT (HEATING)	A	15.1
	LOCKED ROTOR AMP.	A	110.0

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94

Electrical Data - Heatpump

MODEL	INDOOR UNIT		ADSB200BR2
	OUTDOOR UNIT		AMC100BR x 2
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	2730
	RATED RUNNING CURRENT	A	5.0
	MOTOR OUTPUT	W	3000
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	660
	RATED RUNNING CURRENT	A	1.5
	MOTOR OUTPUT	W	470
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	㎌	NIL
	RATED INPUT POWER (COOLING)	W	8607
	RATED INPUT POWER (HEATING)	W	7865
	RATED RUNNING CURRENT (COOLING)	A	16.0
	RATED RUNNING CURRENT (HEATING)	A	15.2
	LOCKED ROTOR AMP.	A	125.0

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MODEL	INDOOR UNIT		ADSB250BR2
	OUTDOOR UNIT		AMC125BR x 2
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	3370
	RATED RUNNING CURRENT	A	6.3
	MOTOR OUTPUT	W	4000
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	640
	RATED RUNNING CURRENT	A	1.4
	MOTOR OUTPUT	W	470
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	㎌	NIL
	RATED INPUT POWER (COOLING)	W	9408
	RATED INPUT POWER (HEATING)	W	7736
	RATED RUNNING CURRENT (COOLING)	A	17.0
	RATED RUNNING CURRENT (HEATING)	A	15.1
	LOCKED ROTOR AMP.	A	110.0

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Electrical Data - Heatpump

MODEL	INDOOR UNIT		ADSB300BR3
	OUTDOOR UNIT		AMC100BR x 3
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	4000
	RATED RUNNING CURRENT	A	7.1
	MOTOR OUTPUT	W	4000
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	660
	RATED RUNNING CURRENT	A	1.5
	MOTOR OUTPUT	W	470
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	㎌	NIL
	RATED INPUT POWER (COOLING)	W	8607
	RATED INPUT POWER (HEATING)	W	7865
	RATED RUNNING CURRENT (COOLING)	A	16.0
	RATED RUNNING CURRENT (HEATING)	A	15.2
	LOCKED ROTOR AMP.	A	125.0

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MODEL	INDOOR UNIT		ADSB350BR3	
	OUTDOOR UNIT		AMC100BR x 1	AMC125BR x 2
INDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50	
	RATED INPUT POWER	W	4510	
	RATED RUNNING CURRENT	A	8.4	
	MOTOR OUTPUT	W	5500	
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50	380~415 / 3 / 50
	RATED INPUT POWER	W	660	640
	RATED RUNNING CURRENT	A	1.5	1.4
	MOTOR OUTPUT	W	470	470
COMPRESSOR	INSULATION GRADE		CLASS F	CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50	380~415 / 3 / 50
	CAPACITOR	㎌	NIL	NIL
	RATED INPUT POWER (COOLING)	W	8607	9408
	RATED INPUT POWER (HEATING)	W	7865	7736
	RATED RUNNING CURRENT (COOLING)	A	16.0	17.0
	RATED RUNNING CURRENT (HEATING)	A	15.2	15.1
	LOCKED ROTOR AMP.	A	125.0	110.0

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94

Electrical Data - Heatpump

MODEL	INDOOR UNIT		ADSB400BR4
	OUTDOOR UNIT		AMC100BR x 4
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	4835
	RATED RUNNING CURRENT	A	8.7
	MOTOR OUTPUT	W	5500
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	660
	RATED RUNNING CURRENT	A	1.5
	MOTOR OUTPUT	W	470
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	㎌	NIL
	RATED INPUT POWER (COOLING)	W	8607
	RATED INPUT POWER (HEATING)	W	7865
	RATED RUNNING CURRENT (COOLING)	A	16.0
	RATED RUNNING CURRENT (HEATING)	A	15.2
	LOCKED ROTOR AMP.	A	125.0

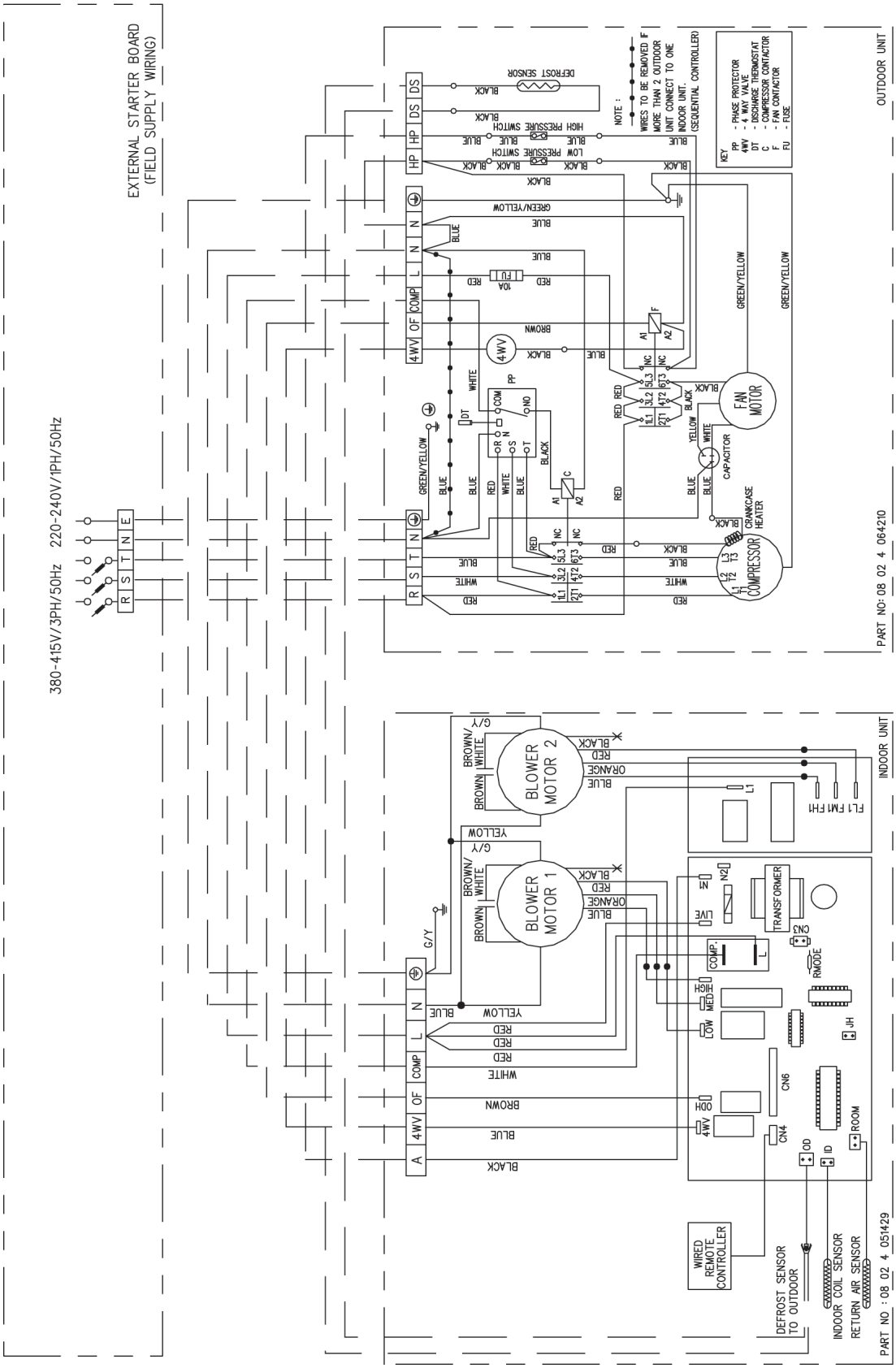
1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94

MODEL	INDOOR UNIT		ADSB500BR4
	OUTDOOR UNIT		AMC125BR x 4
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	8035
	RATED RUNNING CURRENT	A	14.7
	MOTOR OUTPUT	W	11000
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	RATED INPUT POWER	W	640
	RATED RUNNING CURRENT	A	1.4
	MOTOR OUTPUT	W	470
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	㎌	NIL
	RATED INPUT POWER (COOLING)	W	9408
	RATED INPUT POWER (HEATING)	W	7736
	RATED RUNNING CURRENT (COOLING)	A	17.0
	RATED RUNNING CURRENT (HEATING)	A	15.1
	LOCKED ROTOR AMP.	A	110.0

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94

10. WIRING DIAGRAMS

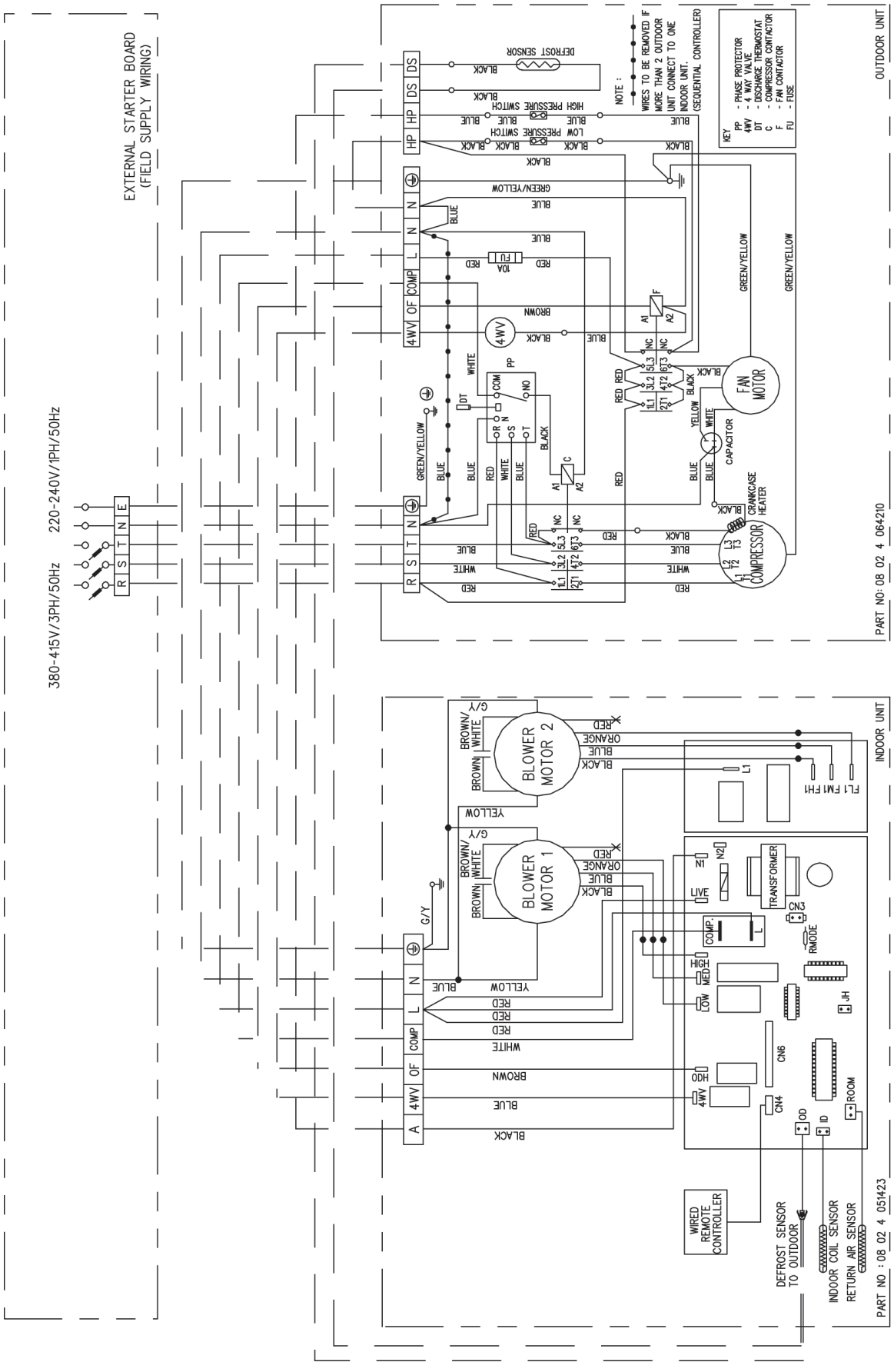
MODEL : ADB75BR ~ AMC75CR



NOTE:
A MANUAL RESET CIRCUIT MUST BE PROVIDED AT THE FIELD SUPPLIED EXTERNAL STARTER BOARD FOR ALL PROTECTIVE DEVICES.

1) WITH MAGNETIC CONTACTOR
2) WITH U1.4 CCT SLM AP
3) FOR 415V/50Hz
4) FOR EXPORT SPEC.

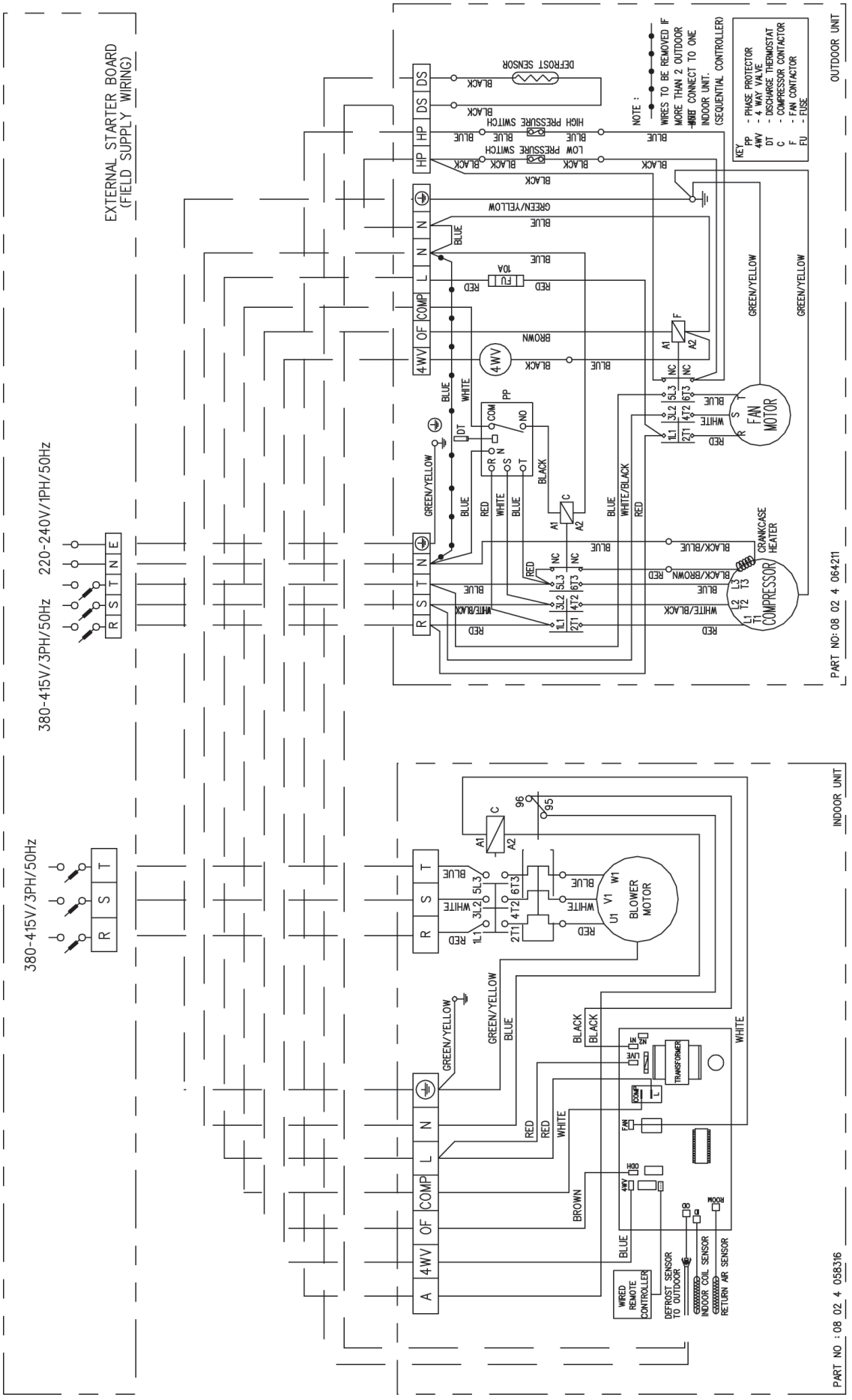
MODEL : ADB100BR ~ AMC100BR



NOTE:
A MANUAL RESET CIRCUIT MUST BE PROVIDED AT THE FIELD SUPPLIED EXTERNAL STARTER BOARD FOR ALL PROTECTIVE DEVICES.

1) WITH MAGNETIC CONTACTOR
2) WITH U1.4 CCT SLM AP
3) FOR 415V/50Hz
4) FOR EXPORT SPEC.

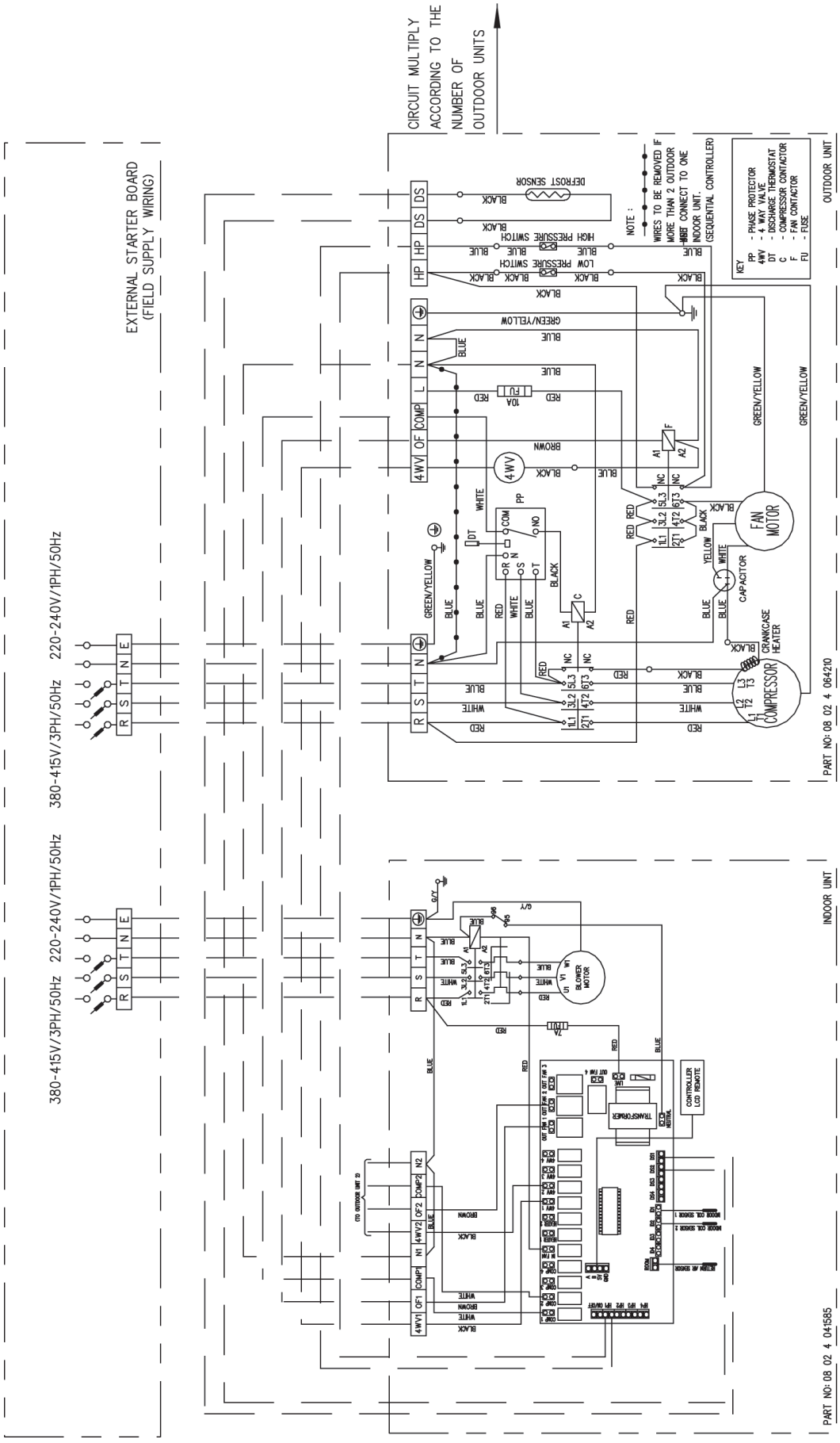
MODEL : ADB125CR ~ AMC125BR



NOTE:
A MANUAL RESET CIRCUIT MUST BE PROVIDED AT THE FIELD SUPPLIED EXTERNAL STARTER BOARD FOR ALL PROTECTIVE DEVICES.

1) WITH MAGNETIC CONTACTOR
2) WITH U1-SB125 CONTROLLER
3) FOR 415V/50Hz
4) FOR EXPORT SPEC.

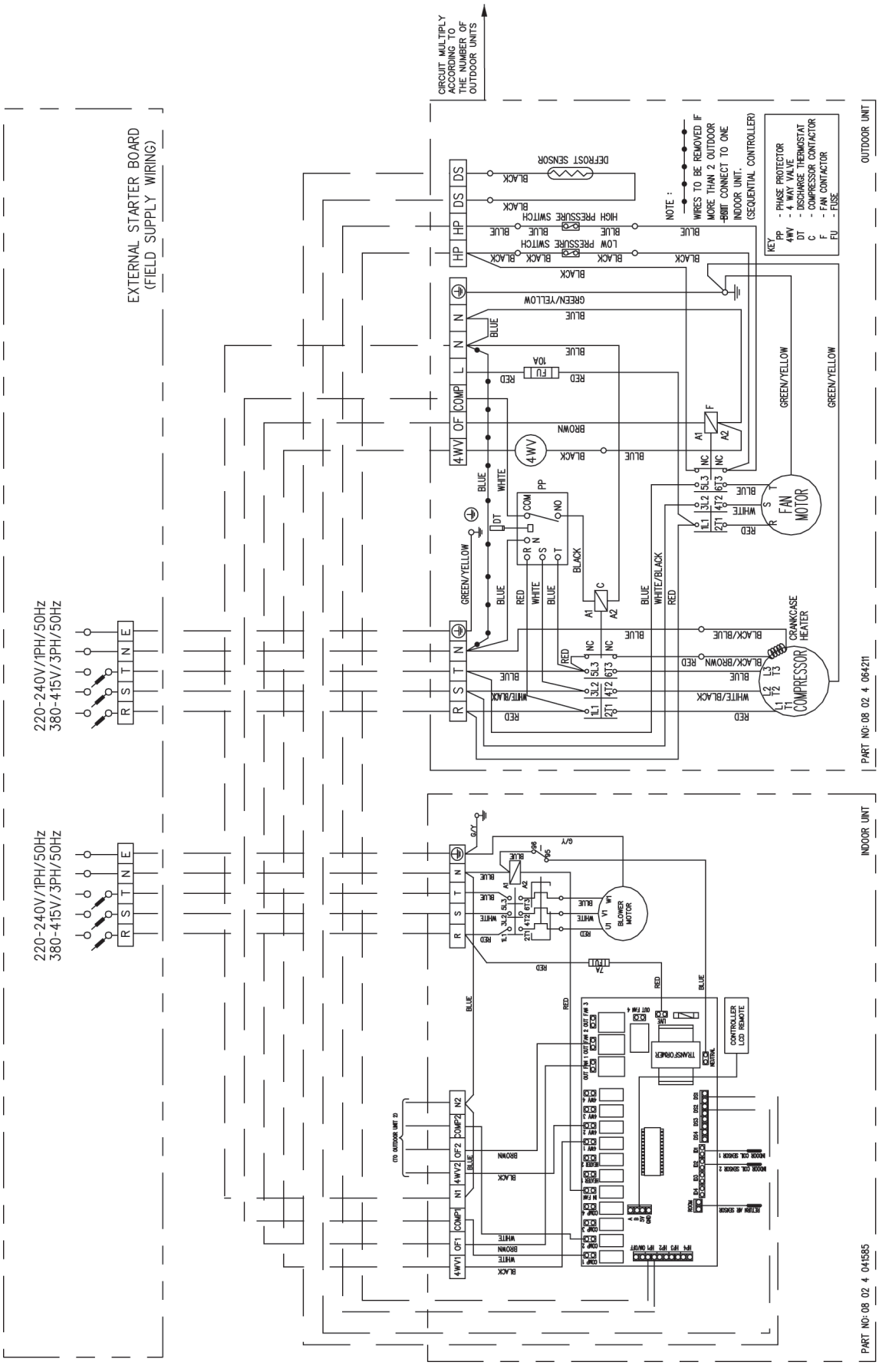
MODEL : ADB150BR2 ~ AMC75CR x 2
ADB200BR2 ~ AMC100BR x 2



NOTE:
A MANUAL RESET CIRCUIT MUST BE PROVIDED AT THE FIELD SUPPLIED EXTERNAL STARTER BOARD FOR ALL PROTECTIVE DEVICES.

1) WITH MAGNETIC CONTACTOR
2) WITH SEQUENTIAL CONTROLLER
3) FOR 415V/50Hz
4) FOR EXPORT SPEC.

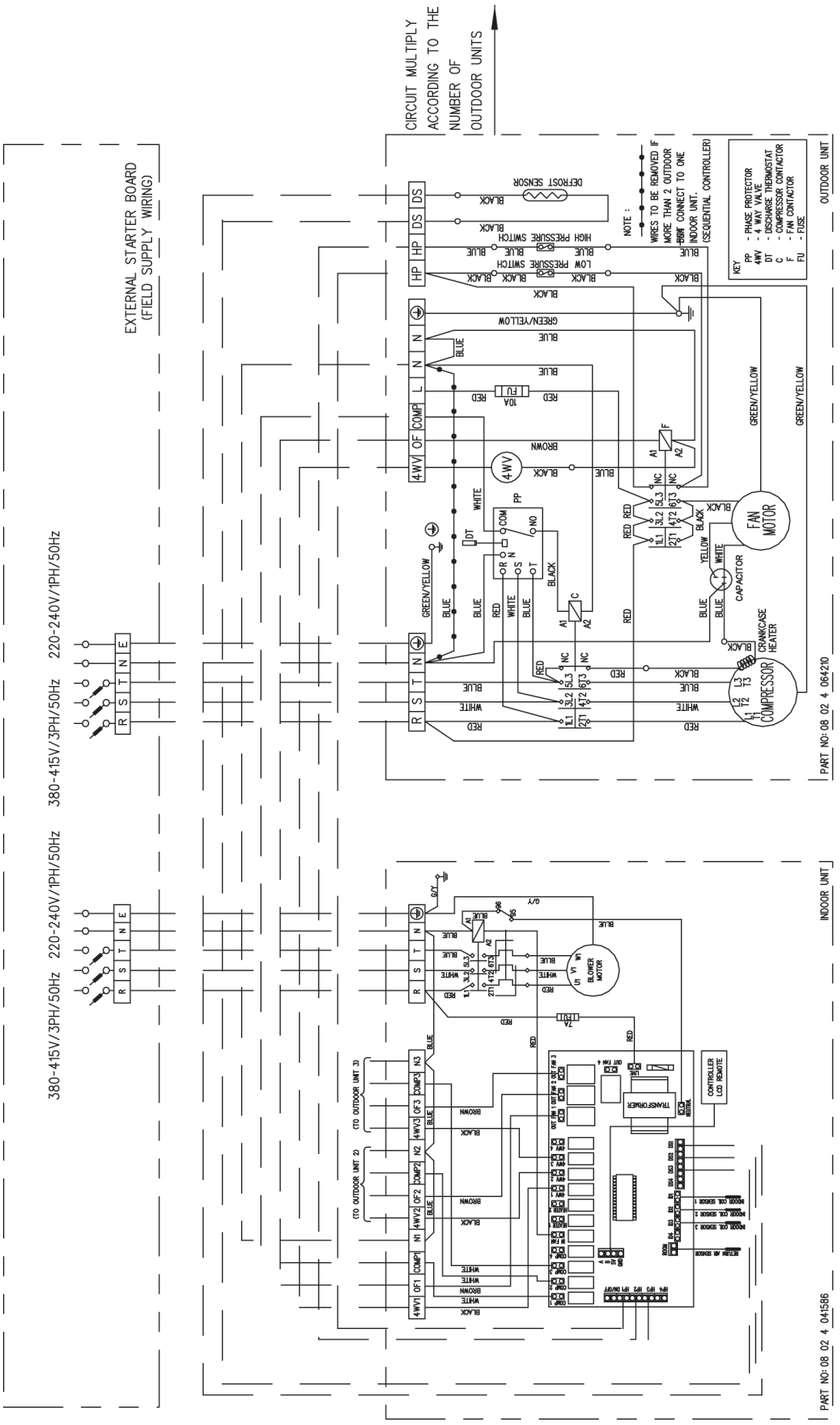
MODEL : ADB250BR2 ~ AMC125BR x 2



NOTE:
A MANUAL RESET CIRCUIT MUST BE PROVIDED AT THE FIELD SUPPLIED EXTERNAL STARTER BOARD FOR ALL PROTECTIVE DEVICES.

1) WITH MAGNETIC CONTACTOR
2) WITH SEQUENTIAL CONTROLLER
3) FOR 415V/50Hz
4) FOR EXPORT SPEC.

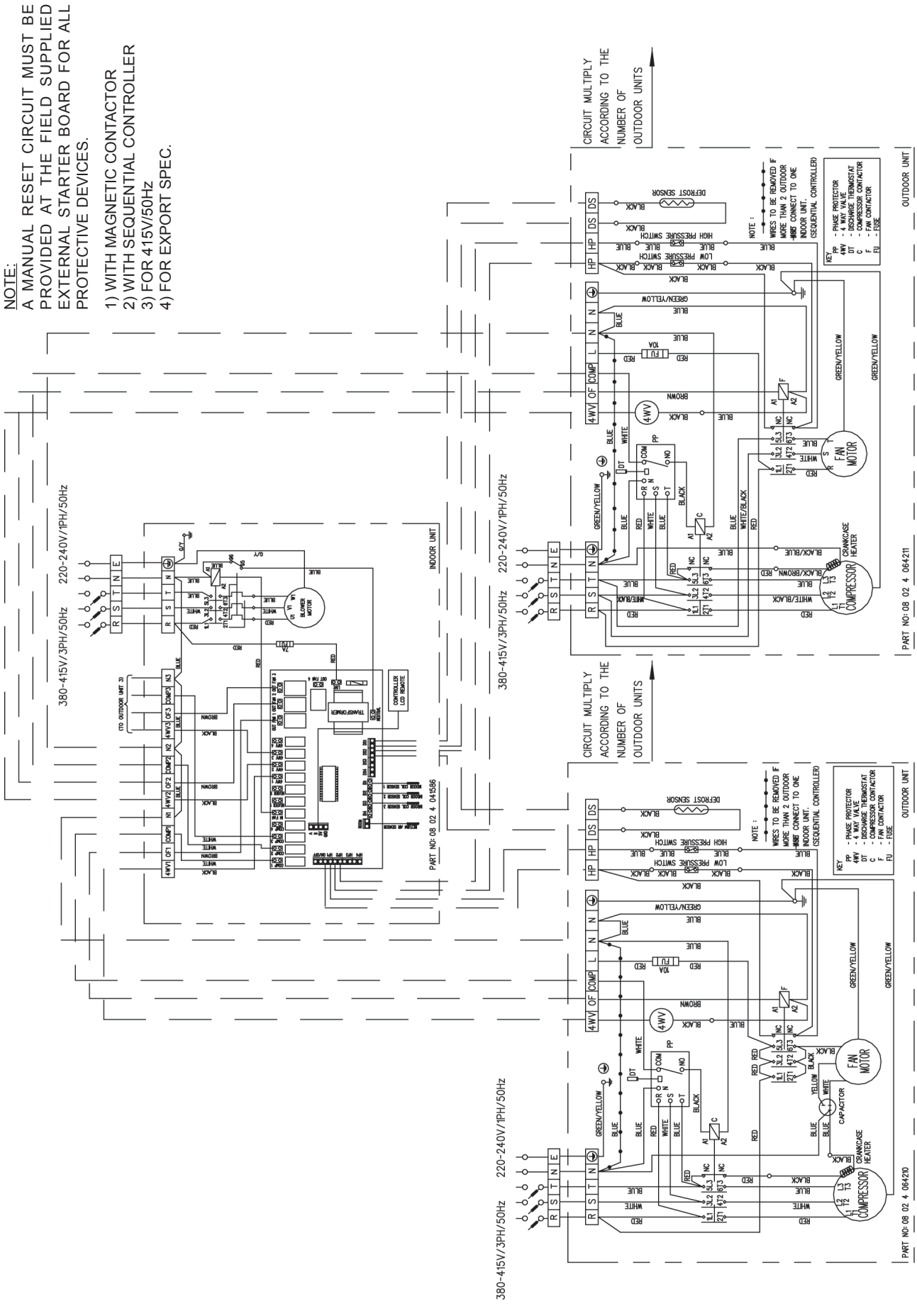
MODEL : ADB300BR3 ~ AMC100BR x 3



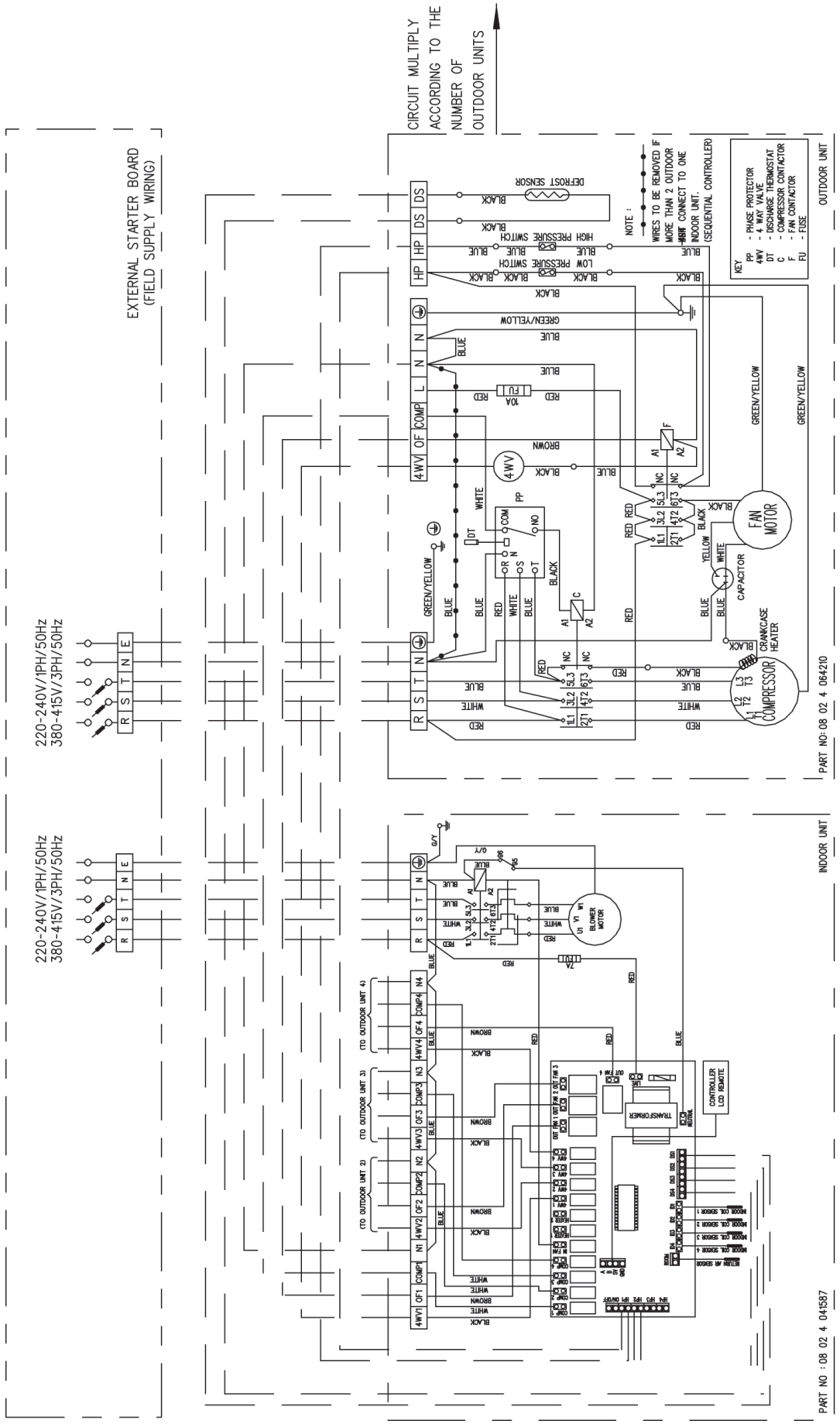
NOTE:
A MANUAL RESET CIRCUIT MUST BE PROVIDED AT THE FIELD SUPPLIED EXTERNAL STARTER BOARD FOR ALL PROTECTIVE DEVICES.

1) WITH MAGNETIC CONTACTOR
2) WITH SEQUENTIAL CONTROLLER
3) FOR 415V/50Hz
4) FOR EXPORT SPEC.

MODEL : ADB350BR3 ~ AMC100BR + AMC125BR x 2



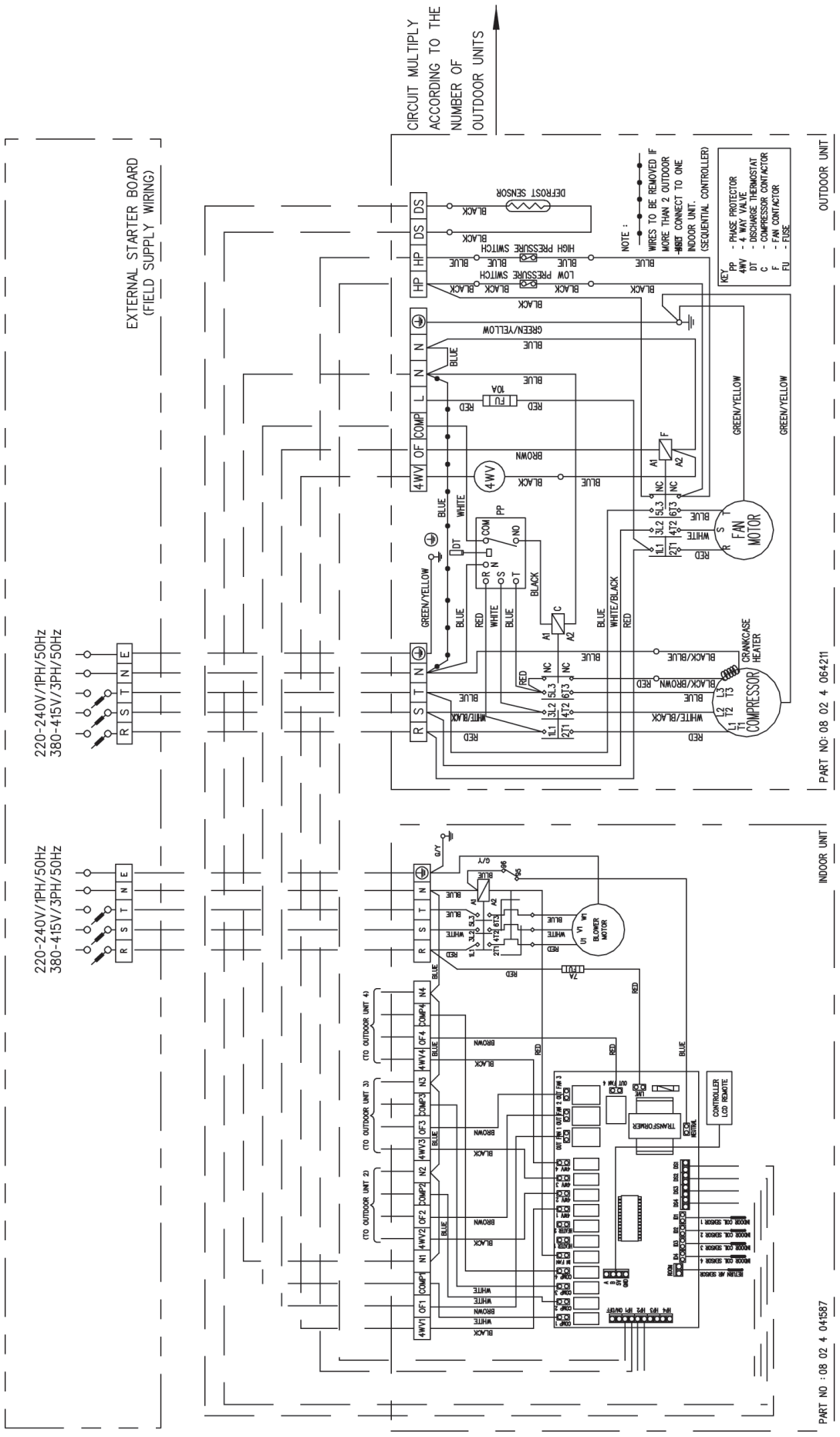
MODEL : ADB400BR4 ~ AMC100BR x 4



NOTE:
A MANUAL RESET CIRCUIT MUST BE PROVIDED AT THE FIELD SUPPLIED EXTERNAL STARTER BOARD FOR ALL PROTECTIVE DEVICES.

1) WITH MAGNETIC CONTACTOR
2) WITH SEQUENTIAL CONTROLLER
3) FOR 415V/50Hz
4) FOR EXPORT SPEC.

MODEL : ADB500BR4 ~ AMC125BR x 4



NOTE:
A MANUAL RESET CIRCUIT MUST BE PROVIDED AT THE FIELD SUPPLIED EXTERNAL STARTER BOARD FOR ALL PROTECTIVE DEVICES.

1) WITH MAGNETIC CONTACTOR
2) WITH SEQUENTIAL CONTROLLER
3) FOR 415V/50Hz
4) FOR EXPORT SPEC.

11. SERVICING AND MAINTENANCE

The design concept of the Condensing Unit is such that all servicing can be done from the front and side of the unit.

Upon removal of front and side panel, all the electrical “terminal box”, fan and motor assembly and compressor are easily accessible.

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

CAUTION

When the compressor is to be stopped for a long time, the crankcase heater should be energized for at least 6 hours before start of operation.

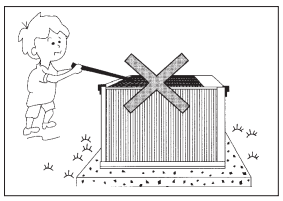
Do not charge OXYGEN, ACETYLENE or other flammable and poisonous gases into the refrigeration cycle when performing a leakage test or an airtight test. These types of gases are extremely dangerous, because explosion can occur.

It is recommended that nitrogen or refrigerant be charged for these types of tests.

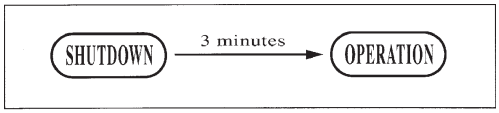
CAUTION FOR USE

Bear the following points in mind to safeguard against malfunction and breakdown.

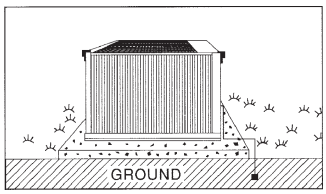
Do not stick rods or other objects through the air outlet during operation since this may result to damage or injury



The air conditioner must not re-start within 3 minutes after shutdown. (These models are equipped with a crankcase heater with the compressor).



Make sure the air conditioner is properly grounded by checking the ground terminal.

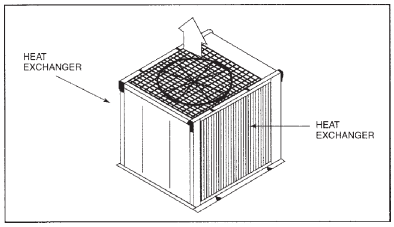


MAINTENANCE

For superb performance and lasting durability, please do not forget to conduct proper and regular maintenance.

Cleaning The Outdoor Unit Heat Exchanger

If you use your air conditioner for prolonged period of time, the outdoor unit heat exchanger will become dirty impairing its function and reducing the performance of the air conditioned. Consult your local dealer about the cleaning of the heat exchanger.



12. 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.	• 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.	• 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.	• 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.	• 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.	• 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.	• 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.	• Liquid refrigerant flowing into the evaporator coil.
8	The wireless controller display is dim.	• The batteries are discharged. • The batteries are not correctly inserted. • The assembly is not good.
9	Compressor operates continuously.	• Dirty air filter. Clean the air filter. • Temperature setting too low (cooling). Use higher temperature setting. • Temperature setting too high (heating), Use lower temperature setting.
10	No cool air comes out during cooling cycle, or no hot air comes out during heating cycle.	• Temperature setting too high (cooling). Use lower temperature setting. • Temperature setting too low (heating). Use higher temperature setting.
11	On heating cycle, warm air does not come out.	• Unit is in defrost mode. Heating operation will resume after defrost cycle ends.

Diagnostic Guidelines

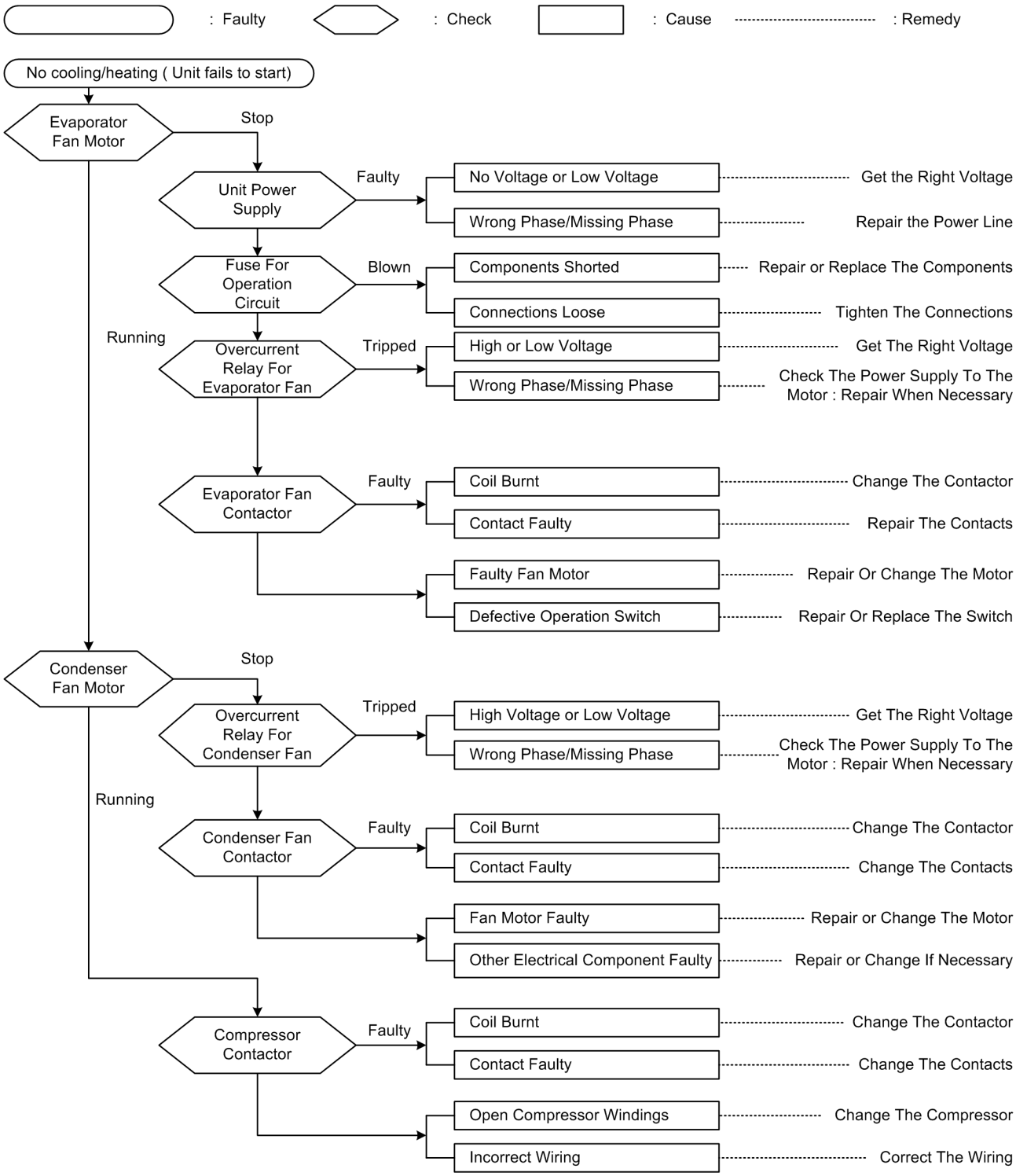
By means of pressure reading:

Data / Circuit	Pressure					Probable cause
	Too low	A little low	Normal	A little high	Too high	
High side **Low side**					● ●	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**	●				●	1. Poor compression / no compression (compressor defective) 2. Reversing valve leaking.
High side **Low side**	 ●	●				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**				 ●	●	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**				●	 ●	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

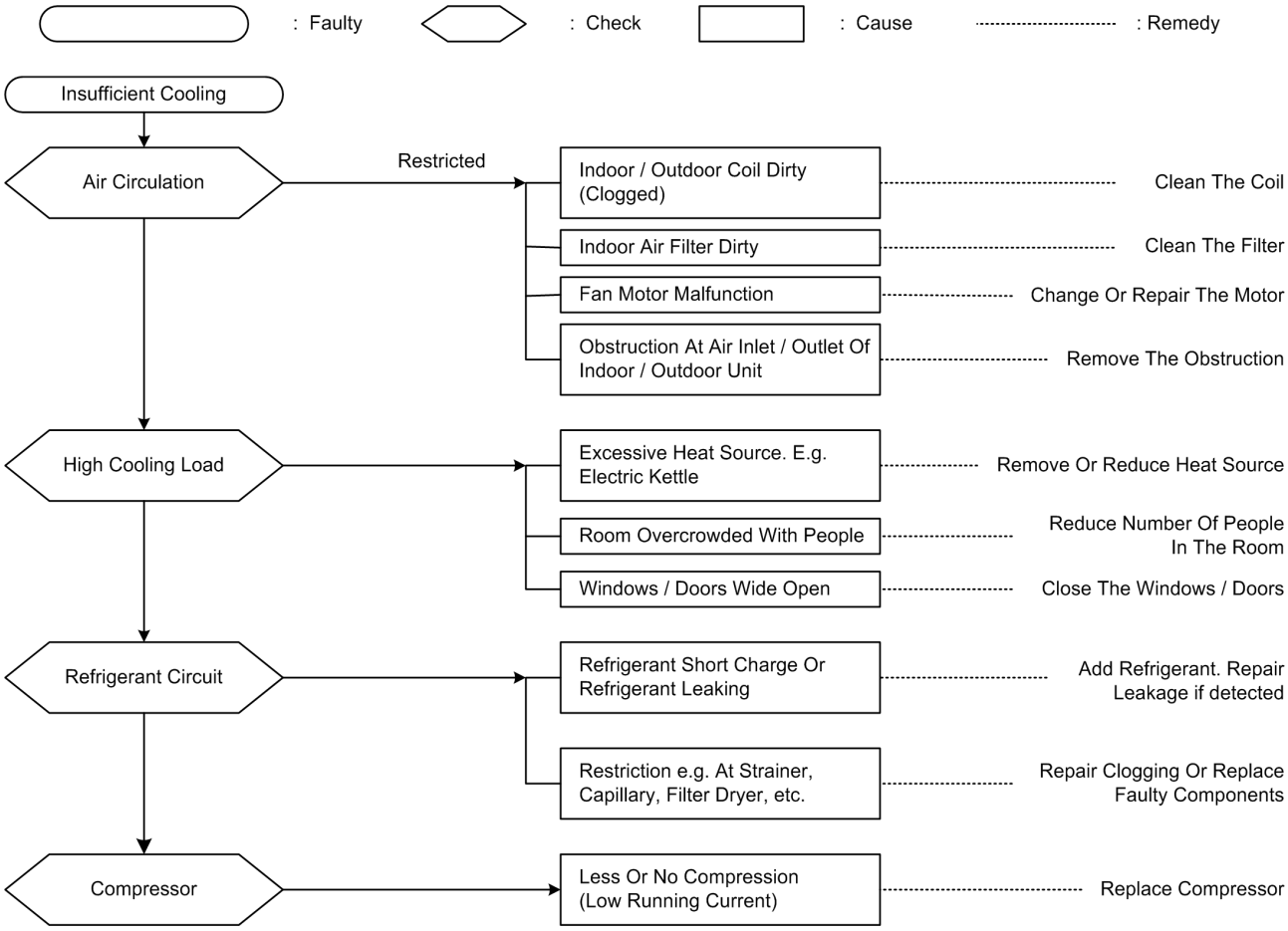


The most common causes of air conditioner failure to “start” are :

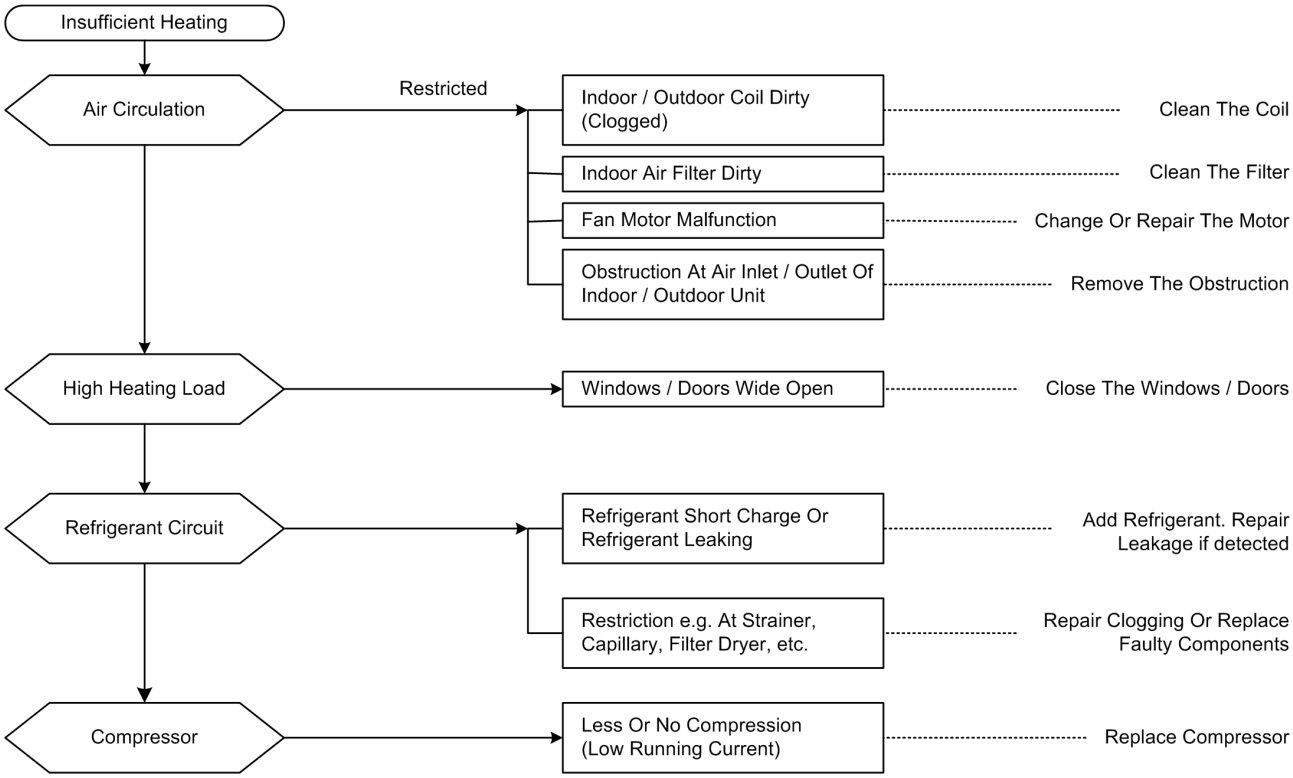
a) Voltage not within ±10% of rated voltage.
b) Power supply interrupted.
c) Improper control settings.
d) Air conditioner is disconnected from main power source.
e) Fuse blown or circuit breaker off.

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)

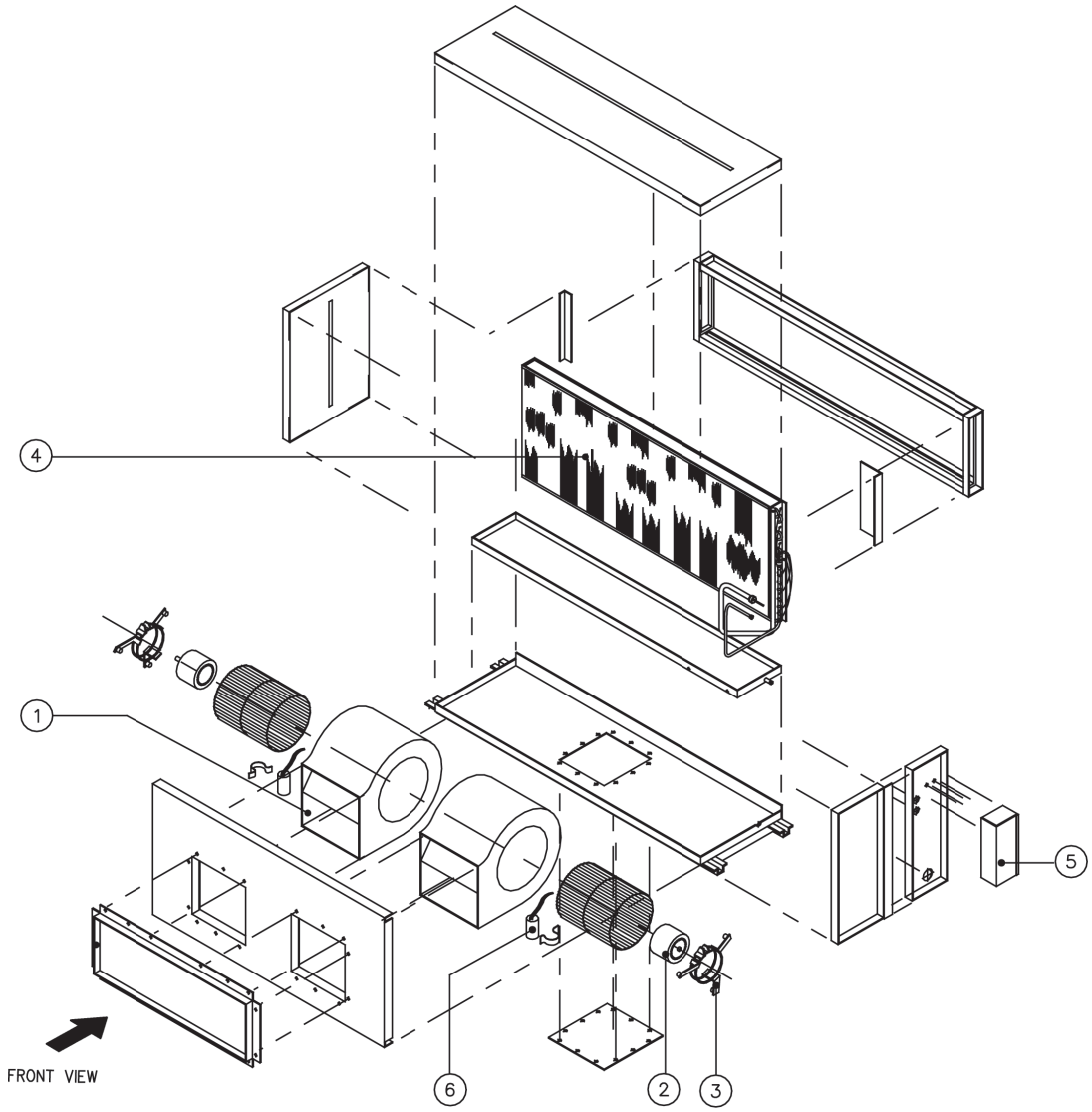


Satisfactory operation with temperature difference of air intake & discharge of indoor unit 14°C to 20°C. *
(* value is for reference only)

13. EXPLODED VIEW AND PARTS LIST

HEATPUMP MODEL (INDOOR)
HORIZONTAL AIR DISCHARGE

MODEL: ADB75BR



NO	DESCRIPTION	PART NO.
1	BLOWER	R50034023132
2	MOTOR	R03039019596
3	FAN MOTOR BRACKET	R01024008152
4	ASSY COIL	R50024052072
5	TER. BOX	R50044089907

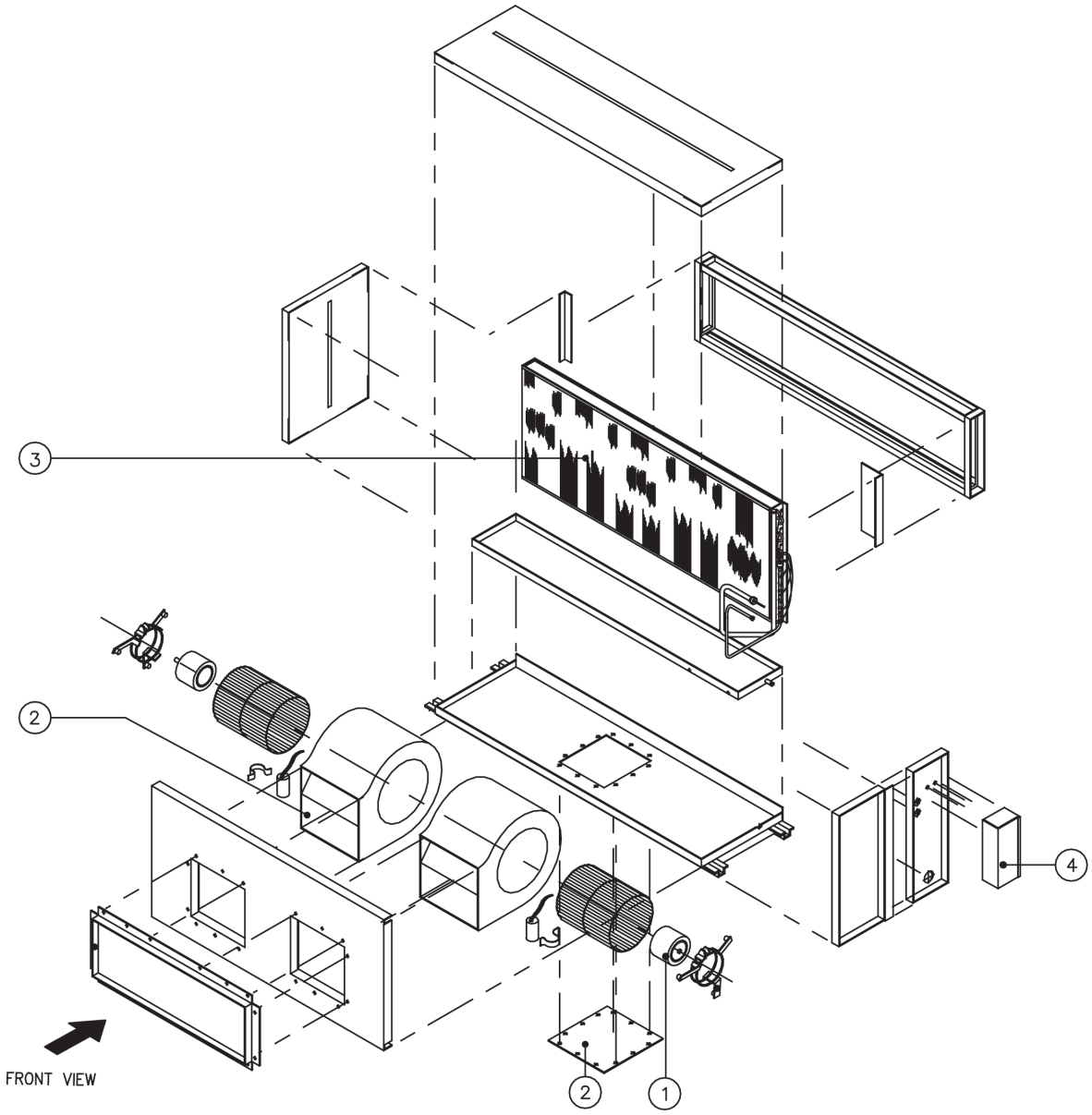
NO	DESCRIPTION	PART NO.
6	CAPACITOR	
	7.5MFD/440VAC	R04024024944
	6.0MFD/440VAC	R04024024943

Parts Not In Diagram

	CONTROL MODULE	R04089028536
	SARAN NET FILTER	R03084004115

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

MODEL : ADB100BR



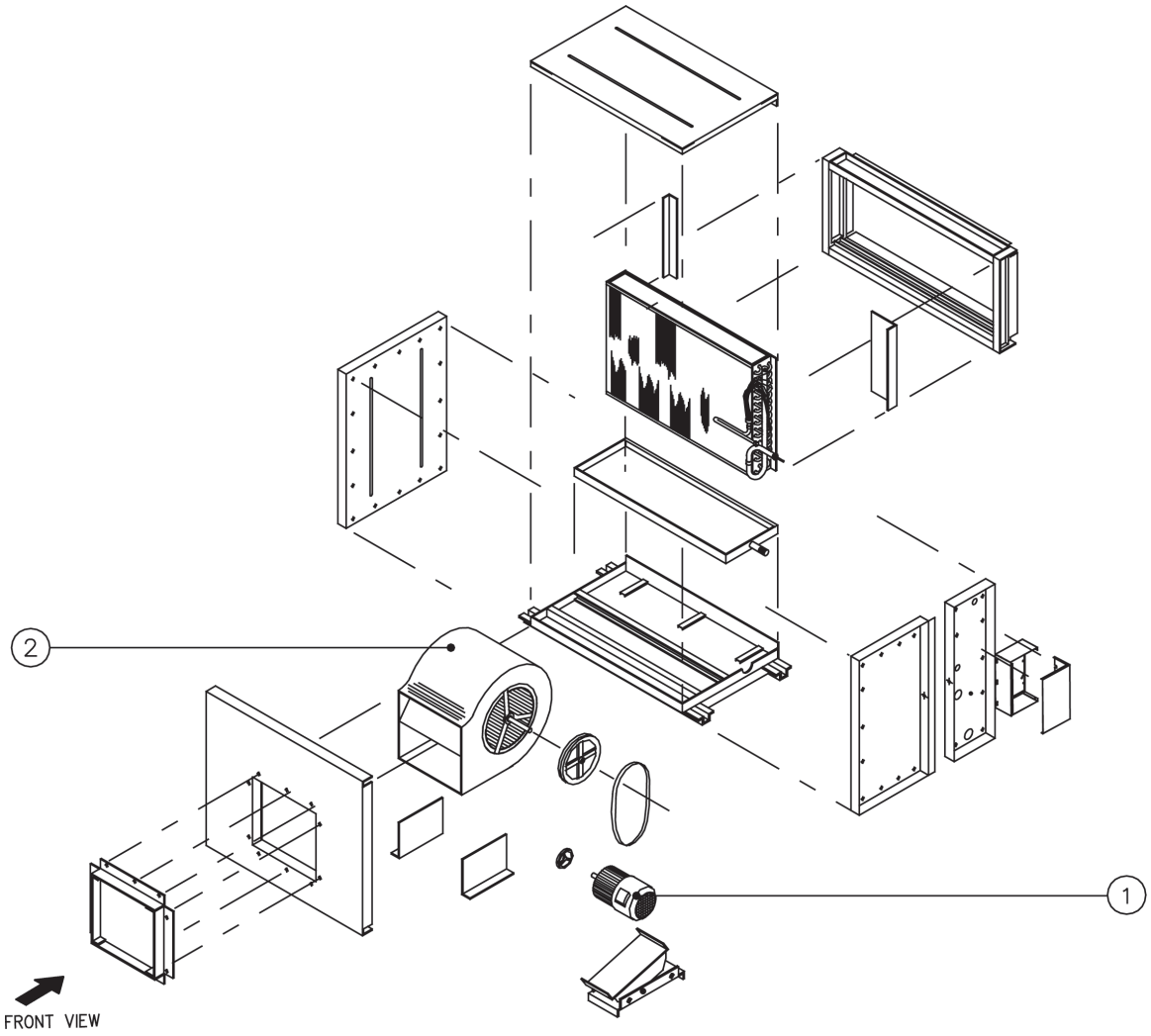
NO	DESCRIPTION	PART NO.
1	MOTOR	R03039019598
2	BLOWER	R50034023132
3	ASSY COIL	R50024052073
4	TER. BOX	R50044089909

Parts Not In Diagram

	SARAN NET FILTER	R03084004115
	CONTROL MODULE	R04089028536

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

MODEL : ADB125CR



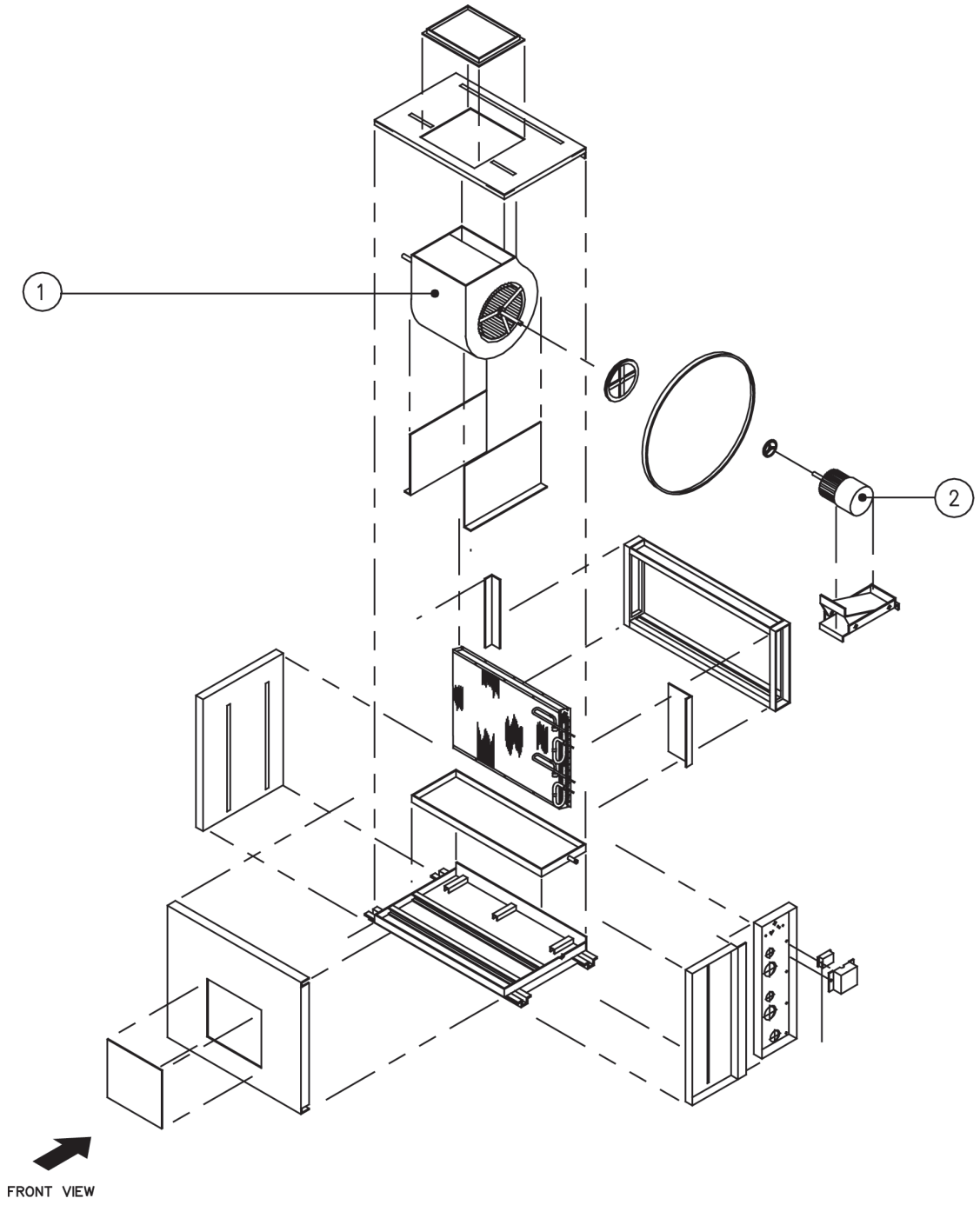
NO	DESCRIPTION	PART NO.
1	MOTOR	R03034014505
2	BLOWER	R50034023308

Parts Not In Diagram

	CONTROL MODULE	R04089028550

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

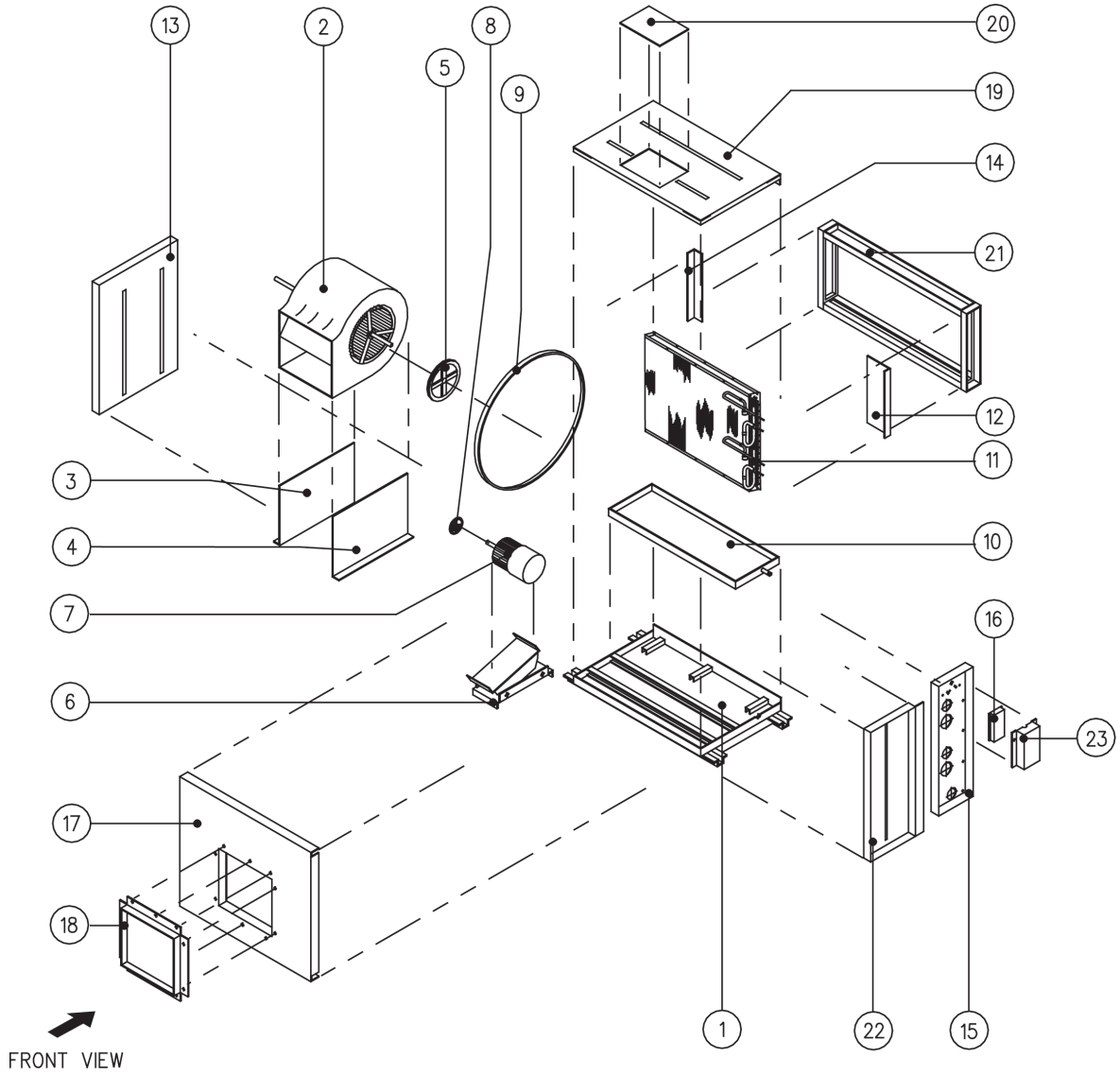
MODEL : ADB150BR2



NO	DESCRIPTION	PART NO.
1	BLOWER	R50034023308
2	MOTOR	R03034014505
Parts Not In Diagram		
	CONTROL MODULE	R04089028557

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

MODEL : ADB200BR2



NO	DESCRIPTION	PART NO.
1	ASSY, BASE PAN	R50015002696
2	BLOWER	R50034023308
3	SUPT, BLOWER L	R01014003028
4	SUPT, BLOWER R	R01014036202
5	PULLEY, 2 SPZ 140/1610	R03044039718
6	BASE, MOTOR UPPER	R01014003787
	BASE, MOTOR LOWER	R01014003797
	SUPT, MOTOR BRACKET L	R01014002671
7	MOTOR	R03034023751
8	PULLEY, 2 SPZ 80/1210	R03044039713
9	BELT	R03054039741
10	ASSY, DRAIN PAN	R50015002729
11	ASSY, COIL	R50024052078
12	COVER, COIL SIDE R	R01014003019
13	PANEL, SIDE R	R01015003021
14	COVER, COIL SIDE L	R01014003020

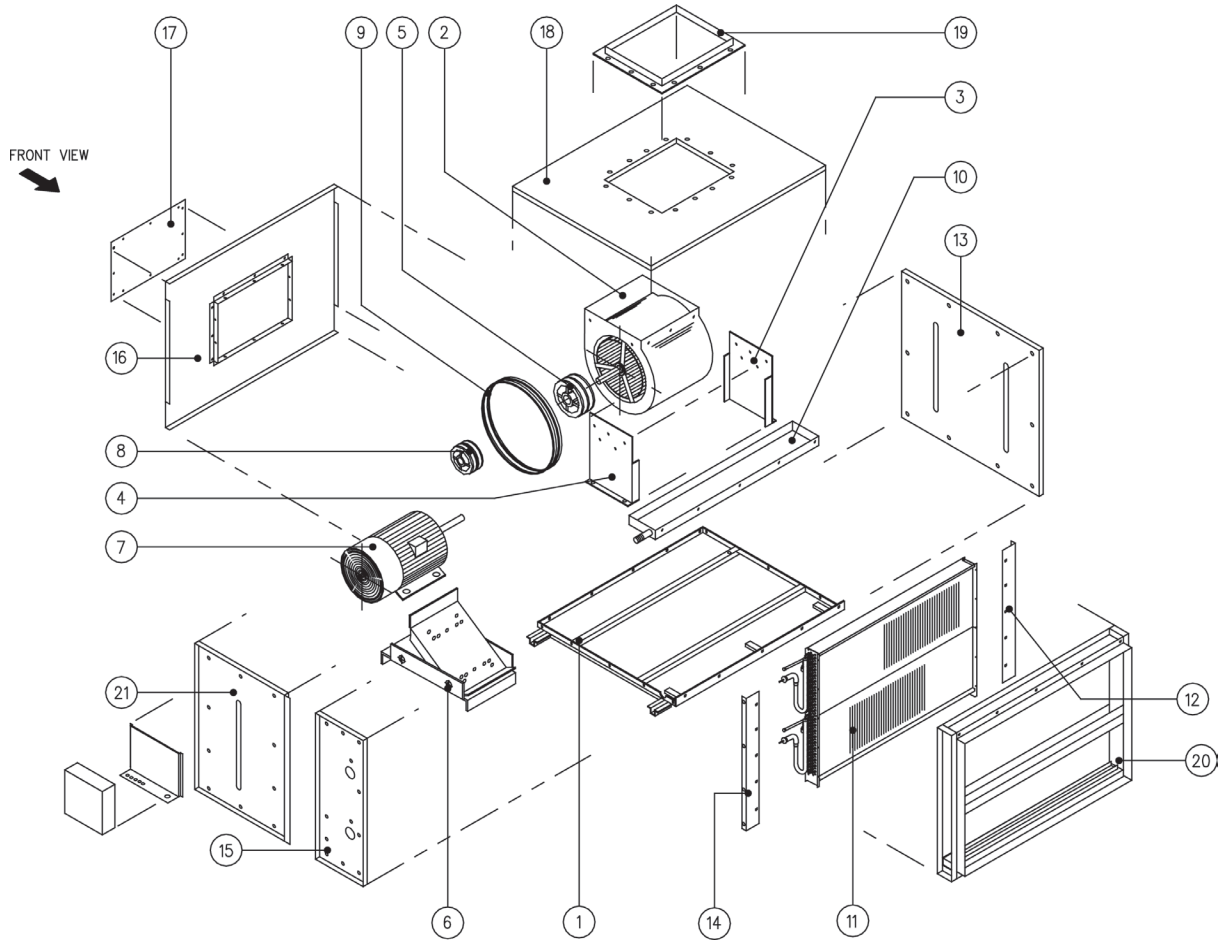
NO	DESCRIPTION	PART NO.
15	ASSY, PANEL SMALL SIDE L	R50014022067
16	ASSY, TER. BOX	R50044059475
17	ASSY, PANEL F	R50015004235
18	FLANGE, BLOWER T/B	R01015003312
	FLANGE, BLOWER L/R	R01015003313
19	ASSY, PANEL T	R50015003043
20	COVER, BLOWER	R01015004231
21	ASSY, FILTER SUPT. T/B	R50015030283
	SUPPORT, FILTER L/R	R01015030275
22	PANEL, SIDE BIG L	R01014004244
23	COVER, TER. BOX	R01014039692

Parts Not In Diagram

	FILTER, AAF R29	R03084004368
	HANDSET, WIRED SEQ LCD	R04089010790
	CONTROL MODULE	R04089009630

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

MODEL : ADB250BR2



NO	DESCRIPTION	PART NO.
1	ASSY, BASE PAN	R50015003916
2	BLOWER	R50034023752
3	SUPT, BLOWER	R01014004057
4	SUPT, BLOWER	R01014004057
5	PULLEY, 2 SPZ 180/2012	R03044039720
6	BASE, MOTOR UPPER	R01014003787
	BASE, MOTOR LOWER	R01014003797
	SUPT. MOTOR BRACKET L	R01014004439
7	MOTOR	R03034023744
8	PULLEY, 2 SPZ 90/1610	R03044039715
9	BELT	R03054039747
10	ASSY, DRAIN PAN	R50015003921
11	ASSY, COIL	R50024052079
12	COVER, COIL SIDE L	R01015009829
13	PANEL, SIDE L	R01015003988

NO	DESCRIPTION	PART NO.
14	COVER, COIL SIDE R	R01015004065
15	PANEL, SMALL SIDE R	R01015041823
16	ASSY, FRONT PANEL	R50015004073
17	COVER, BLOWER	R01015003979
18	ASSY, TOP PANEL	R50015003980
19	FLANGE, BLOWER T/B	R01015003899
	FLANGE, BLOWER L/R	R01015003900
20	ASSY, FILTER SUPT. T/B	R50015003898
	ASSY, FILTER R/CENTRE	R50015004224
	FLANGE, FILTER L/R	R01015003809
21	PANEL, SIDE BIG R	R01015041429

Parts Not In Diagram

	FILTER, AAF R29	R03084004400
	HANDSET, WIRED SEQ LCD	R04089010790
	CONTROL MODULE	R04089011165

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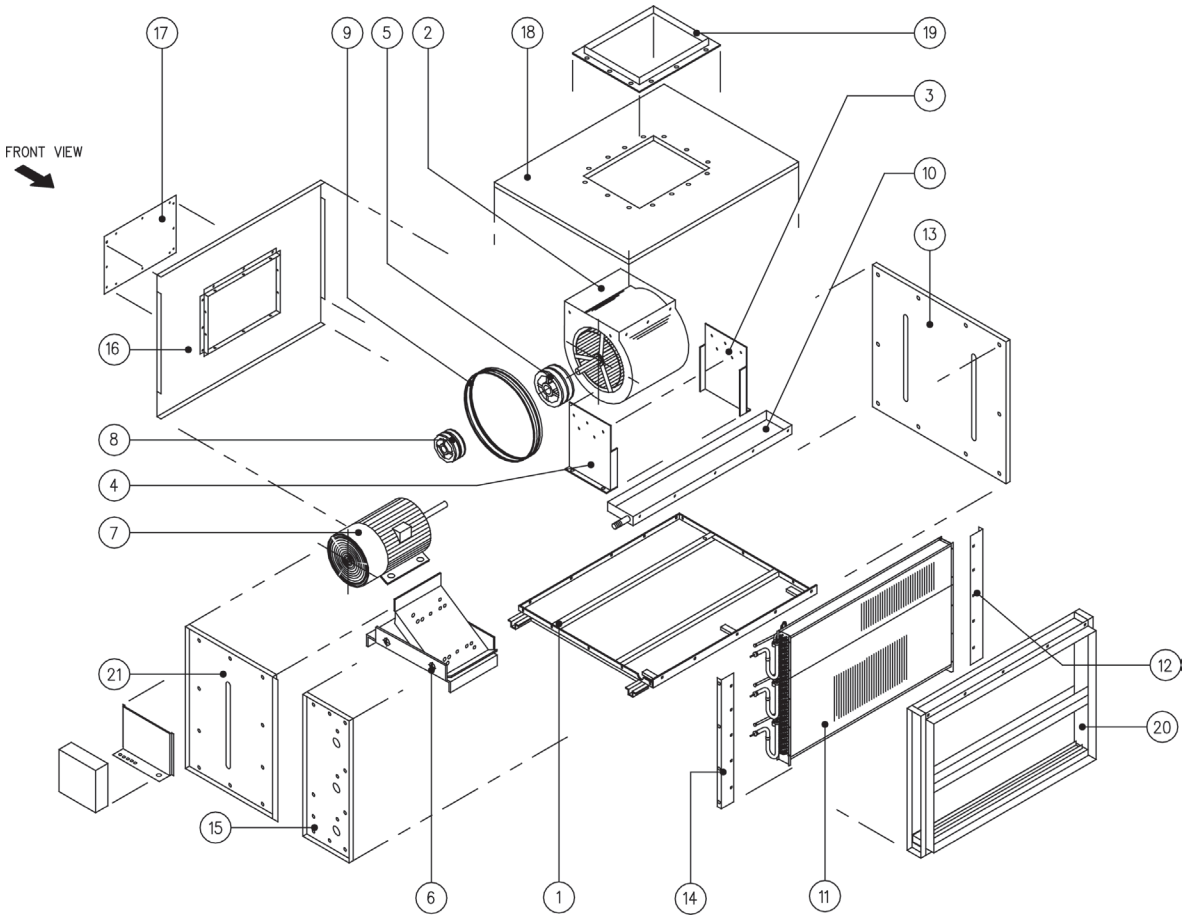
MODEL : ADB300BR3



NO	DESCRIPTION	PART NO.
1	ASSY, BASE PAN	R50015003916
2	BLOWER	R50034023752
3	SUPT, BLOWER	R01014004057
4	SUPT, BLOWER	R01014004057
5	PULLEY, 2 SPZ 180/2012	R03044039720
6	BASE, MOTOR UPPER	R01014003787
	BASE, MOTOR LOWER	R01014003797
	SUPT. MOTOR BRACKET L	R01014004439
7	MOTOR	R03034023744
8	PULLEY, 2 SPZ 90/1610	R03044039715
9	BELT	R03054039747
10	ASSY, DRAIN PAN	R50015003921
11	ASSY, COIL	R50024052080
12	COVER, COIL SIDE L	R01015009829
13	PANEL, SIDE L	R01015003988

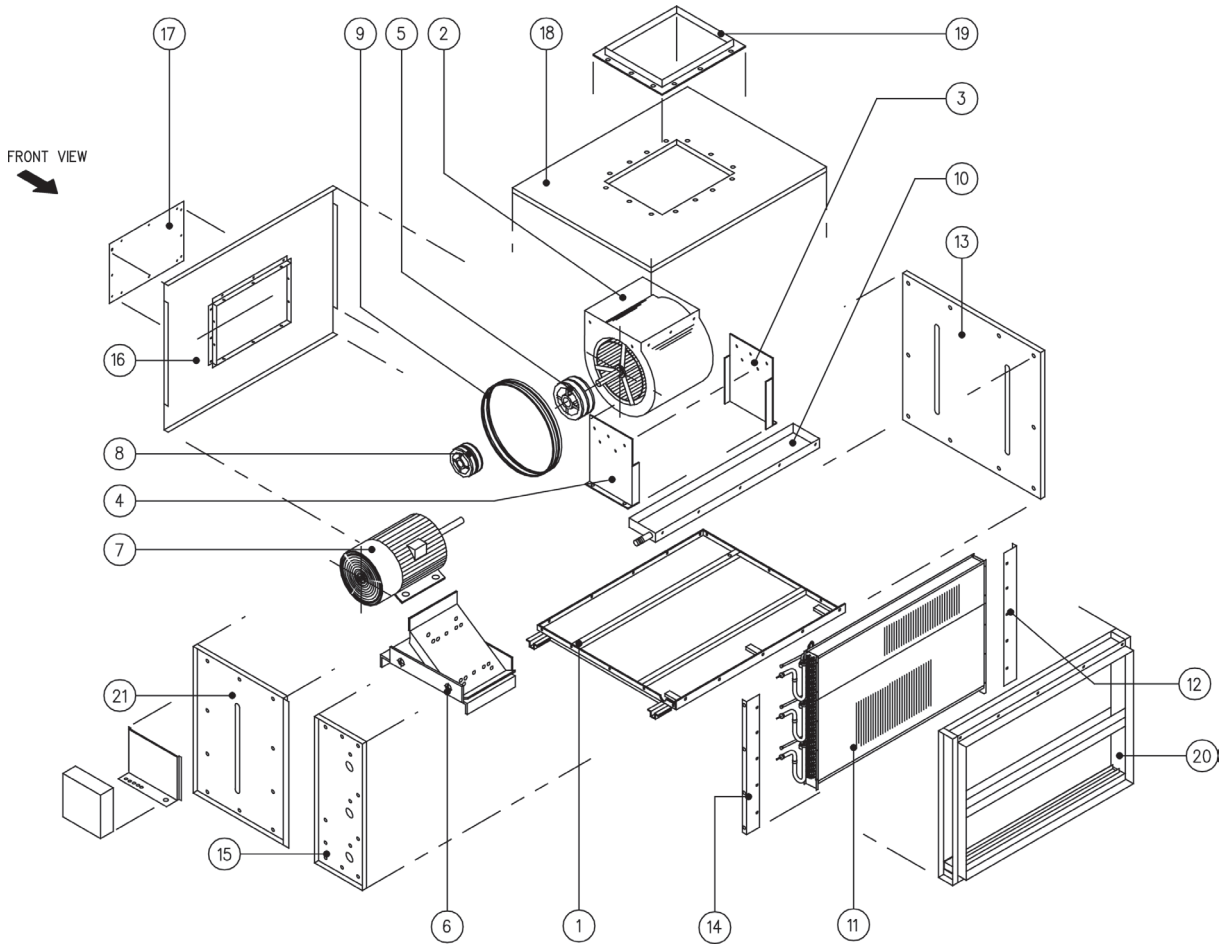
NO	DESCRIPTION	PART NO.
14	COVER, COIL SIDE R	R01015004065
15	PANEL, SMALL SIDE R	R01015041823
16	ASSY, FRONT PANEL	R50015004073
17	COVER, BLOWER	R01015003979
18	ASSY, TOP PANEL	R50015003980
19	FLANGE, BLOWER T/B	R01015003899
	FLANGE, BLOWER L/R	R01015003900
20	ASSY, FILTER SUPT. T/B	R50015003898
	ASSY, FILTER R/CENTRE	R50015004224
	FLANGE, FILTER L/R	R01015003809
21	PANEL, SIDE BIG R	R01015041429

Parts Not In Diagram

	FILTER, AAF R29	R03084004400
	HANDSET, WIRED SEQ LCD	R04089010790
	CONTROL MODULE	R04089028556

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

MODEL : ADB350BR3



NO	DESCRIPTION	PART NO.
1	ASSY, BASE PAN	R50015004504
2	BLOWER	R50034023752
3	SUPT, BLOWER L	R01014037510
4	SUPT, BLOWER R	R01014004738
5	PULLEY, 2 SPZ 250/2012	R03044039722
6	BASE, MOTOR UPPER	R01014003787
	BASE, MOTOR LOWER	R01014003797
	SUPT, MOTOR BRACKET L	R01014004851
	SUPT, MOTOR BRACKET R	R01014037512
7	MOTOR	R03034023745
8	PULLEY, 2 SPZ 125/1610	R03044039717
9	BELT	R03054039749
10	ASSY, DRAIN PAN	R50015004485
11	ASSY, COIL	R50024052081
12	COVER, COIL SIDE L	R01015004443
13	PANEL, SIDE L	R01015004626

NO	DESCRIPTION	PART NO.
14	COVER, COIL SIDE R	R01015004444
15	PANEL, SMALL SIDE R	R01014004623
16	ASSY, FRONT PANEL	R50015005897
17	COVER, BLOWER	R01015003979
18	ASSY, TOP PANEL	R50015005898
19	FLANGE, BLOWER L/R	R01015003900
	FLANGE, BLOWER T/B	R01015003899
20	ASSY, FILTER SUPT. T/B	R50015004543
	ASSY, FILTER R/CENTRE	R50015004550
	SUPT, FILTER L/R	R01015004533
21	PANEL, SIDE BIG R	R01015041430

Parts Not In Diagram

	FILTER, AAF R29	R03084004885
	HANDSET, WIRED SEQ LCD	R04089010790
	CONTROL MODULE	R04089028556

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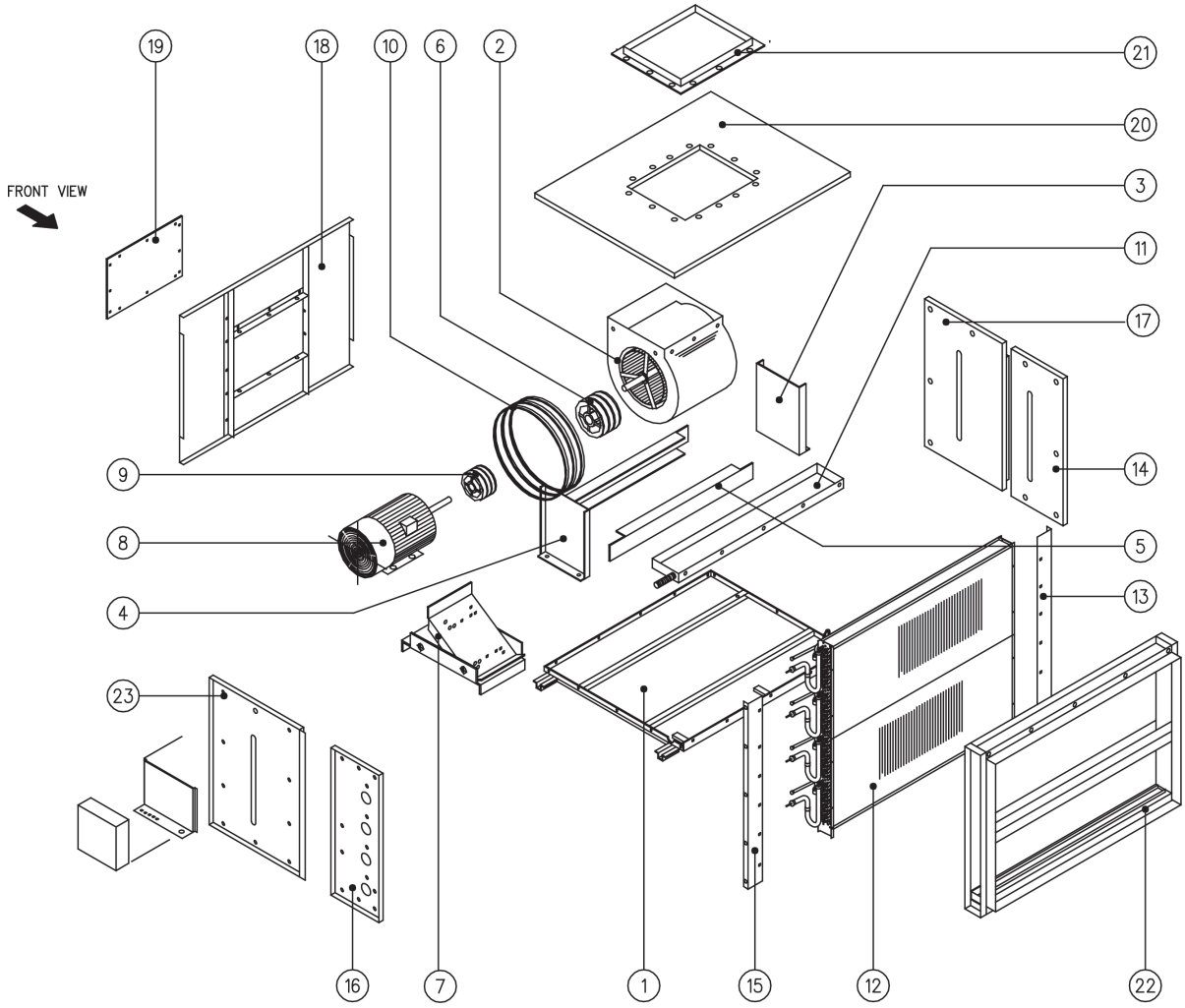
MODEL : ADB400BR4



NO	DESCRIPTION	PART NO.
1	ASSY, BASE PAN	R50015004502
2	BLOWER	R50034023753
3	SUPT, BLOWER L	R01014029728
4	SUPT, BLOWER R	R01014004423
5	SUPT, BLOWER F/B	R01014004670
6	PULLEY, 2 SPA 250/2517	R03044039730
7	BASE, MOTOR UPPER	R01014004488
	BASE, MOTOR LOWER	R01014004487
	SUPT, MOTOR BRACKET L	R01014004499
8	MOTOR	R03034023745
9	PULLEY, 2 SPA 106/1610	R03044039725
10	BELT	R03054039754
11	ASSY, DRAIN PAN	R50015009832
12	ASSY, COIL	R50024052082
13	COVER, COIL SIDE L	R01015009831
14	PANEL, SIDE BACK L	R01015004437

NO	DESCRIPTION	PART NO.
15	COVER, COIL SIDE R	R01015004444
16	PANEL, SIDE BACK R	R01015069361
17	PANEL, SIDE FRONT L/R	R01015004438
18	ASSY, FRONT PANEL	R50015004518
19	COVER, BLOWER	R01015004433
20	ASSY, TOP PANEL	R50015004516
21	FLANGE, BLOWER L/R	R01015004523
	FLANGE, BLOWER T/B	R01015004524
22	SUPPORT, FILTER L/R	R01015004533
	COVER, FILTER	R01015004534
	SUPT, FILTER T/B	R01014009836
23	PANEL, SIDE FRONT L/R	R01015004438

Parts Not In Diagram

	FILTER, AAF R29	R03084010692
	HANDSET, WIRED SEQ LCD	R04089010790
	CONTROL MODULE	R04089028555

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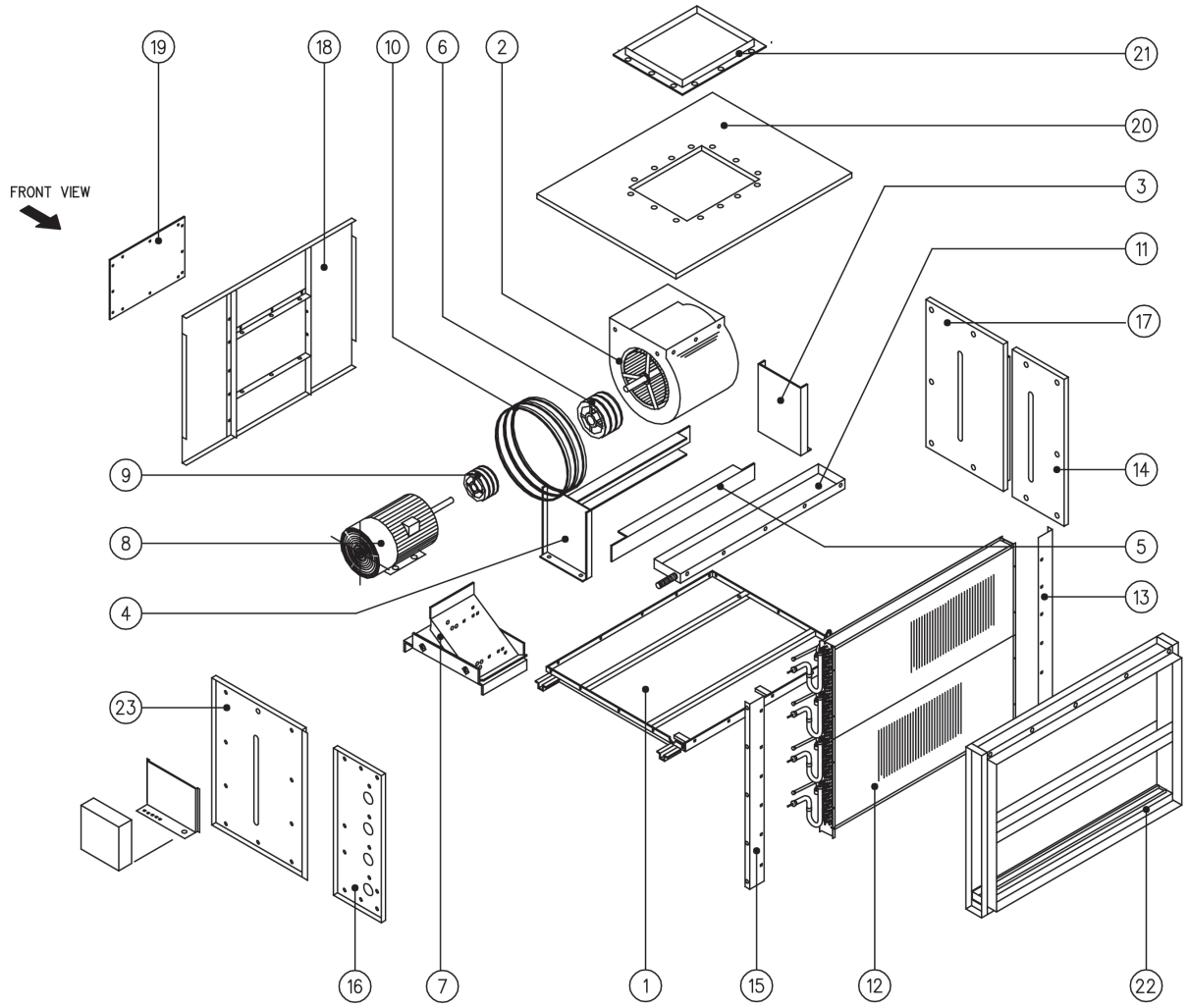
MODEL : ADB500BR4



NO	DESCRIPTION	PART NO.
1	ASSY, BASE PAN	R50015004502
2	BLOWER	R50034023753
3	SUPT, BLOWER L	R01014029728
4	SUPT, BLOWER R	R01014004423
5	SUPT, BLOWER F/B	R01014004670
6	PULLEY, 2 SPA 315/2517	R03044039732
7	BASE, MOTOR UPPER	R01014004488
	BASE, MOTOR LOWER	R01014004487
	SUPT, MOTOR BRACKET L	R01014004499
8	MOTOR	R03034023747
9	PULLEY, 2 SPA 150/2012	R03044039728
10	BELT	R03054039757
11	ASSY, DRAIN PAN	R50015009832
12	ASSY, COIL	R50024052083
13	COVER, COIL SIDE L	R01015004443
14	PANEL, SIDE BACK L	R01015004437

NO	DESCRIPTION	PART NO.
15	COVER, COIL SIDE R	R01015004444
16	PANEL, SIDE BACK R HEADER	R01015069362
17	PANEL, SIDE FRONT L/R	R01015004438
18	ASSY, PANEL F	R50015004518
19	COVER, BLOWER	R01015004433
20	ASSY, PANEL T	R50015004516
21	FLANGE, BLOWER L/R	R01015004523
	FLANGE, BLOWER T/B	R01015004524
22	SUPT, FILTER L/R	R01015004533
	COVER, FILTER	R01015004534
	SUPT, FILTER T/B	R01014009836
23	PANEL, SIDE FRONT L/R	R01015004438

Parts Not In Diagram

	FILTER, AAF R29	R03084010692
	HANDSET, WIRED SEQ LCD	R04089010790
	CONTROL MODULE	R04089028555

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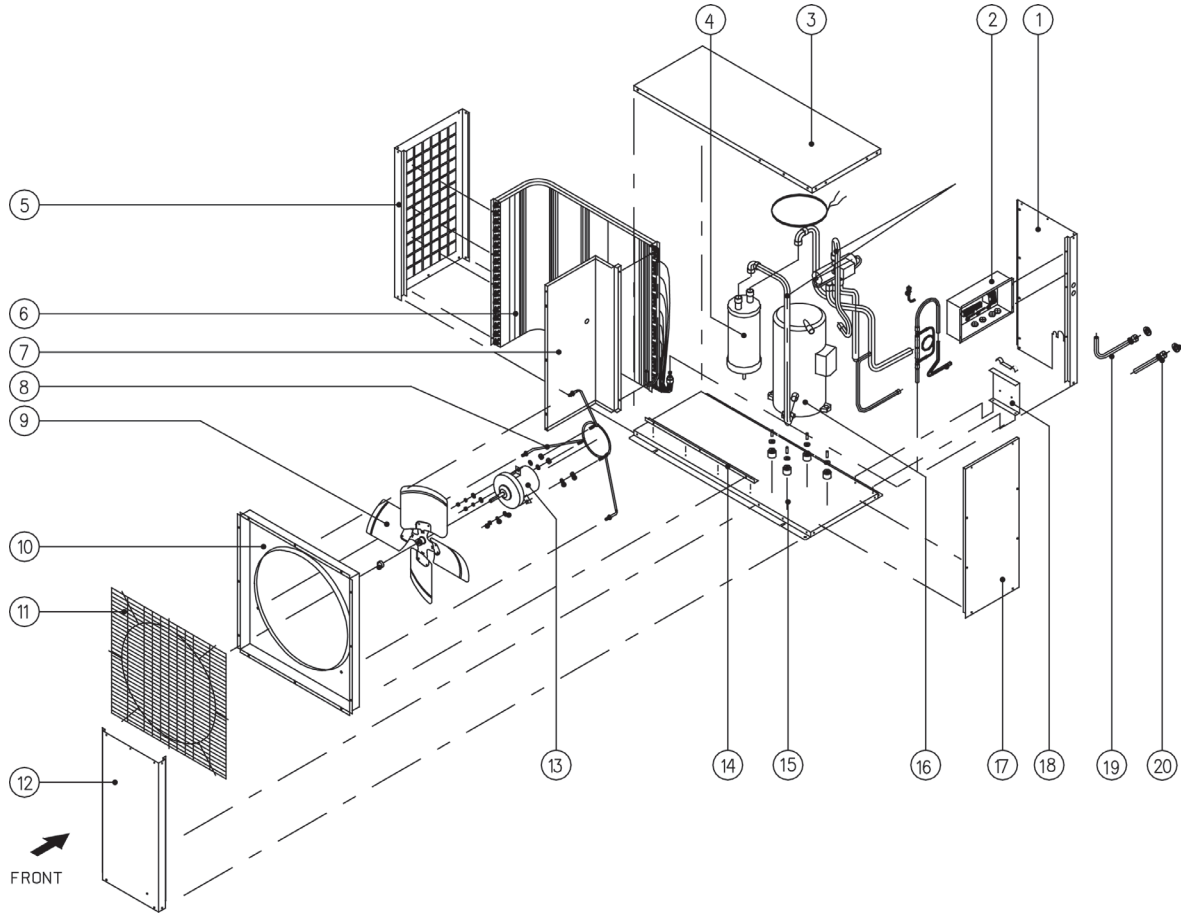
HEATPUMP MODEL
HORIZONTAL AIR DISCHARGE

MODEL : AMC75CR



NO	DESCRIPTION	PART NO.
1	STRUC. BACK R	R01014019103
2	ASSY, TER. BOX	R50044083914
3	TOP PANEL	R01014017644
4	ACCUMULATOR	R02119011398
5	STRUC. FRONT L	R01014017647
6	ASSY, COIL	R50024052144
7	PARTITION	R50014051357
8	BRACKET, FAN MOTOR	R01024000338
9	PROPELLER FAN	R03019021349
10	ORIFICE PLATE	R01014017651
11	FAN GUARD	R01024035874
12	STRUC. FRONT R	R01014017652
13	MOTOR	R03034023613

NO	DESCRIPTION	PART NO.
14	ORIFICE SUPT. PLATE	R01014017645
15	ASSY, BASE PAN	R50014035111
16	COMPRESSOR	R50049004676
17	SERVICE PANEL	R01014017643
18	VALVE PLATE	R01014019100
19	ACESS VALVE	R50054046605
20	ACESS VALVE	R50054028348

Parts Not In Diagram

	4-WAY VALVE	R05014024168
	TXV VALVE	R05019015478
	PHASE PROTECTOR	R04089007721
	CAPACITOR	R04024031249
	PRESS. SWITCH, 426PSI	R04109015136

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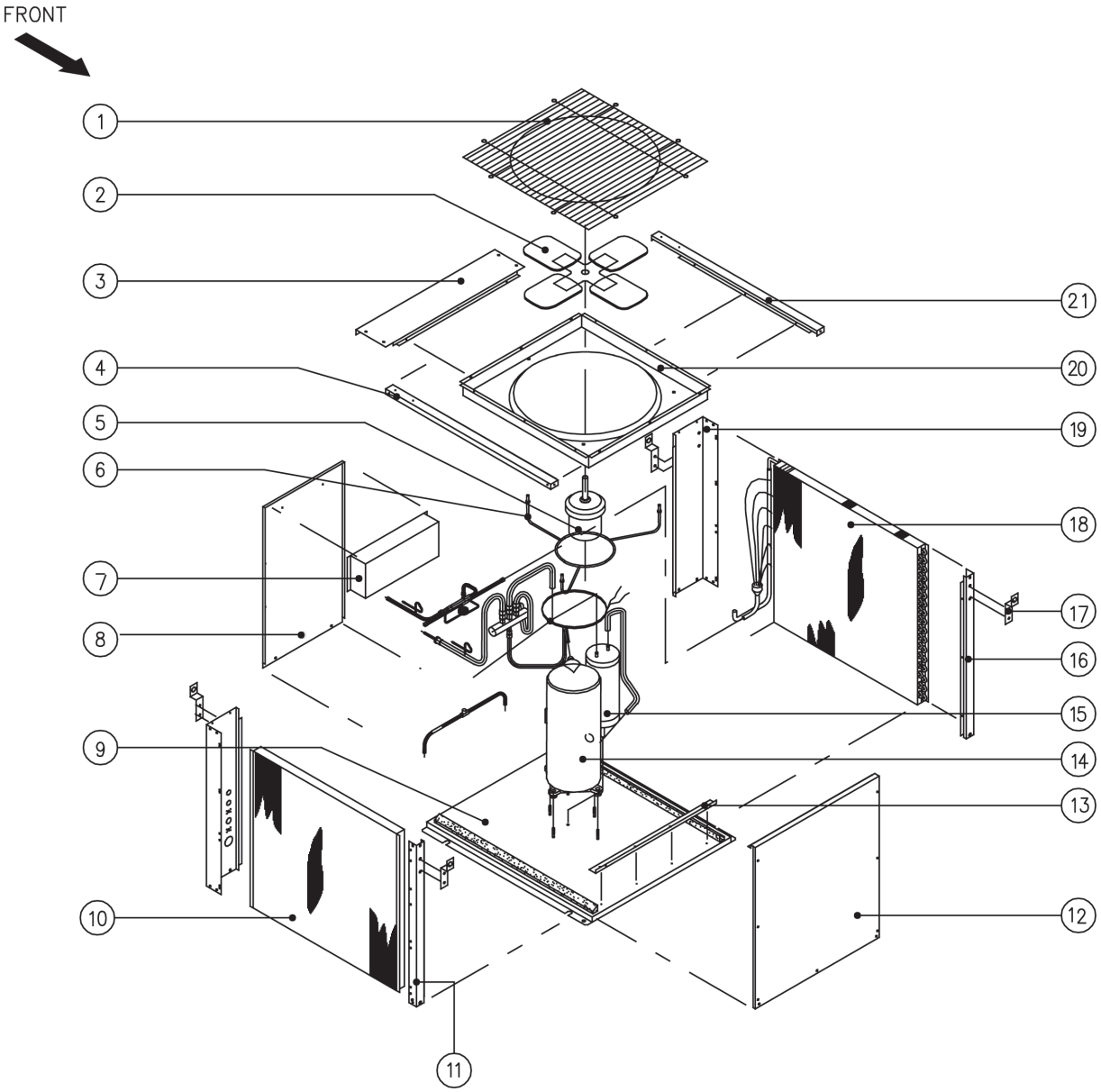
VERTICAL DISCHARGE

MODEL : AMC100 / 125 BR



VERTICAL DISCHARGE

MODEL : AMC100 / 125 BR

NO	DESCRIPTION	PART NO.
1	FAN GUARD	
	AMC100BR	R01024035874
	AMC125BR	R01024022786
2	PROPELLER FAN	
	AMC100BR	R03019021349
	AMC125BR	R03019021350
3	PANEL, TOP F	R01014035869
4	STRUC, TOP R	R01014035882
5	MOTOR	
	AMC100BR	R03034023613
	AMC125BR	R03034027520
6	BRACKET, FAN MOTOR	
	AMC100BR	R01024000338
	AMC125BR	R01024023059
7	ASSY,TERMINAL BOARD	
	AMC100BR	R50044083869
	AMC125BR	R50044083870
8	ASSY, BASE PAN	R50014052913
9	ASSY, STRUC. FRONT R.	R50014070509
10	ASSY, COIL R	
	AMC100BR	R50024025146
	AMC125BR	R50024025145
11	ASSY, STRUC. BACK R	
	AMC100BR	R50014035877
	AMC125BR	R50014039651
12	T/B PANEL	R01014035873
13	SUPT, ORIFICE PLATE	R01014035870

NO	DESCRIPTION	PART NO.
14	COMPRESSOR	
	AMC100BR	R50049004677
	AMC125BR	R50049007081
15	ACCUMULATOR	R02119015245
16	ASSY, STRUC. BACK L	
	AMC100BR	R50014035878
	AMC125BR	R50014039652
17	HOISTING BRACKET	R01014034655
18	ASSY, COIL L	
	AMC100BR	R50024025171
	AMC125BR	R50024025170
19	ASSY, STRUC. FRONT L	R50014070508
21	PLATE, ORIFICE	
	AMC100BR	R01014017651
	AMC125BR	R01014022390
21	STRUC, TOP L	R01014035865

Parts Not In Diagram

	PANEL, SERVICE T	R01014068762
	ASSY, ACCESS VALVE	R50054009748
	PRESS. SWITCH, 426PSI	R04109015136
	PRESS. SWITCH, 7PSI	R04109015400
	PHASE PROTECTOR, PP1.03	R04089017029
	VALVE, REV 4 WAY	R05014024168
	FILTER DRIER	R02164034987
	VALVE, TXV	
	AMC100BR, TCLE 7.5HCA	R05019014868
	AMC125BR, TCLE 10HCA	R05019014867

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