Catalog

MDB-E-2010

Ducted Blower Split Systems

Models: MDB 075-600 ER

MDB 125/150 ER

MDB 600 ER4

MMC 075-150 ER

McQuay® Air Conditioning

Engineered for flexibility and performance.™

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This manual supercedes MDB-E-2009

Note : Installation and maintenance are to be performed only by qualified personnel who are familiar with local codes and regulations, and experienced with this type of equipment.

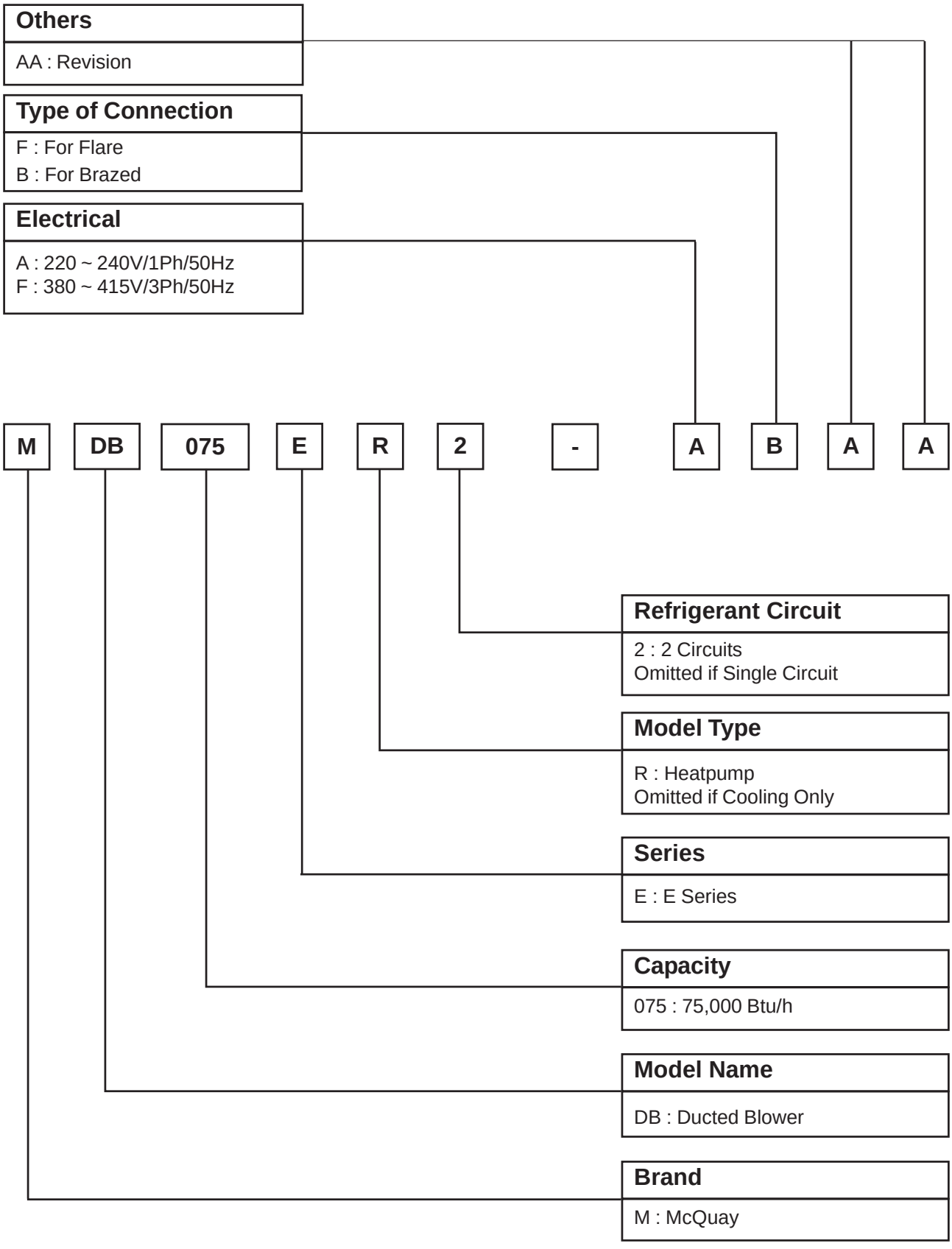
Caution: Sharp edges and coil surfaces are a potential injury hazard. Avoid contact with them.

Warning : Moving machinery and electrical power hazard. May cause severe personal injury or death. Disconnect and lock off power before servicing equipment.

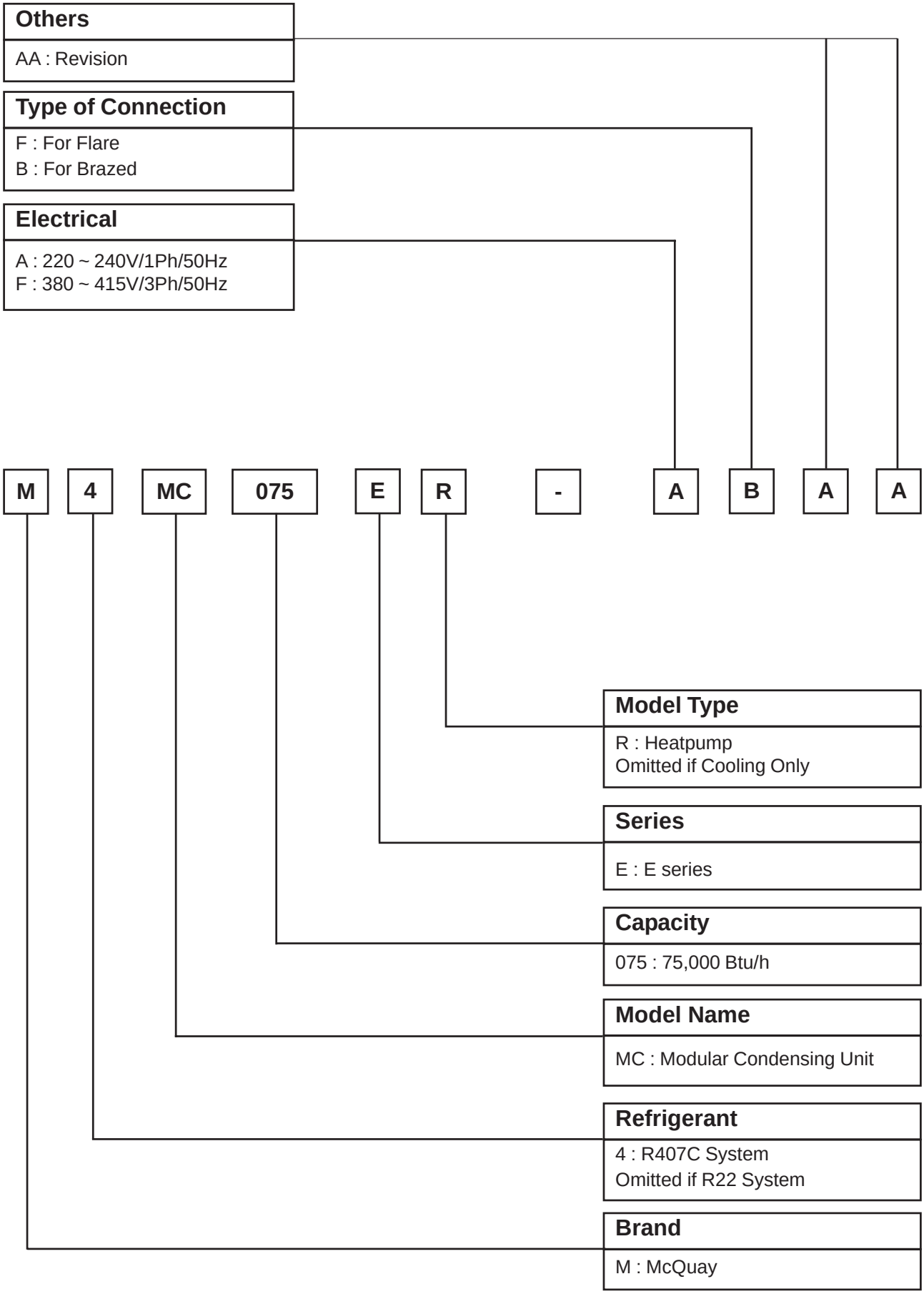
CE

Nomenclature

Indoor



Outdoor


Others
AA : Revision
Type of Connection
F : For Flare
B : For Brazed
Electrical
A : 220 ~ 240V/1Ph/50Hz
F : 380 ~ 415V/3Ph/50Hz
M
4
MC
075
E
R
-
A
B
A
A
Model Type
R : Heatpump
Omitted if Cooling Only
Series
E : E series
Capacity
075 : 75,000 Btu/h
Model Name
MC : Modular Condensing Unit
Refrigerant
4 : R407C System
Omitted if R22 System
Brand
M : McQuay

PRODUCT LINE UP

MDB-E SERIES

			Classification													
			Controller				Handset		Marking	Ref. Ctrl		Filter	Air Discharge			
	MDB	Nomenclature	With Contactor	L208A	U1_SB125	Sequential Controller	SLM3	LCD Sequential Controller	CE Mark	TXV & Check valve	Capillary Tube & Check Valve	With air filter	Horizontal & Changeable	Horizontal & Not Changeable	Vertical & Changeable	Very High Static
HEATPUMP MODELS	075ER	ABAA		X			X		X	X		X		X		
		ABAC		X			X		X	X		X		X		
	100ER	ABAA		X			X		X	X		X		X		
		ABAC		X			X		X	X		X		X		
	125ER1	FBAA	X		X		X		X	X		X		X		
		FBAB	X		X		X		X	X		X		X		
		FBHA	X		X		X		X	X		X		X		X
	125ER2	FBAA	X			X		X	X		X	X		X		
		FBHA	X			X		X	X		X	X		X		X
	150ER1	FBAA	X		X		X		X	X		X		X		
		FBHA	X		X		X		X	X		X		X		X
	150ER2	FBAA	X			X		X	X	X		X		X		
		FBHA	X			X		X	X	X		X		X		X
	200ER2	FBAA	X			X		X	X	X		X	X			
	250ER2	FBAA	X			X		X	X	X		X			X	
	300ER2	FBAA	X			X		X	X	X		X			X	
	300ER3	FBAA	X			X		X	X	X		X			X	
	350ER3	FBAA	X			X		X	X	X		X			X	
	400ER4	FBAA	X			X		X	X	X		X			X	
	450ER3	FBAA	X			X		X	X	X		X			X	
	500ER4	FBAA	X			X		X	X	X		X			X	
	600ER4	FBAA	X			X		X	X	X		X			X	
		FBAB	X			X		X	X	X		X		X		

M(4)MC-E SERIES

			Classification							
			Controller		Marking	Compressor	Expansion Device	Others		
	MMC	Nomenclature	With Contactor	With Auto HP/LP	CE Mark	Scroll	TXV	For Sequential Controller	Gold Fin (NA549)	With Brazed Type Ball Valve
Heatpump Models	075ER	FBAA	X	X	X	X	X	X		
		FBAB	X	X	X	X	X	X	X	
		FBAC	X	X	X	X	X	X		
		FCAA	X	X	X	X	X	X		X
	100ER	FBAA	X	X	X	X	X	X		
		FBAB	X	X	X	X	X	X	X	
		FBAC	X	X	X	X	X	X		
		FCAA	X	X	X	X	X	X		X
	125ER	FBAA	X	X	X	X	X	X		
		FBAB	X	X	X	X	X	X	X	
		FBAC	X	X	X	X	X	X		
		FCAA	X	X	X	X	X	X		X
	150ER	FBAA	X	X	X	X	X	X		
		FBAB	X	X	X	X	X		X	
		FCAA	X	X	X	X	X	X		X

			Classification							
			Controller		Marking	Compressor	Expansion Device	Others		
	M4MC	Nomenclature	With Contactor	With Auto HP/LP	CE Mark	Scroll	TXV	For Sequential Controller	Gold Fin (NA549)	With Brazed Type Ball Valve
Heatpump Models	075ER	FBAA	X	X	X	X	X	X		
		FCAA	X	X	X	X	X	X		X
	100ER	FBAA	X	X	X	X	X	X		
		FCAA	X	X	X	X	X	X		X
	125ER	FBAA	X	X	X	X	X	X		
		FCAA	X	X	X	X	X	X		X
	150ER	FBAA	X	X	X	X	X	X		
		FCAA	X	X	X	X	X	X		X

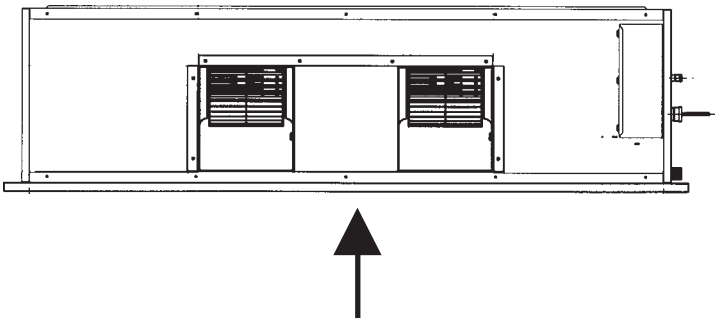
MMC-FR SERIES

			Classification																			
			Controller				Marking			Compressor						XV			Others			
MMC		Nomenclature	With Contactor	Without Contactor	With Auto HP/LP	With Manual HP/LP	CE Mark	ETL	Without Marking	Scroll-Daikin	Scroll-Copeland	Scroll Maneurop	Reciprocating-Maneurop	Reciprocating Bristol	Reciproacating-Copeland	TXV	Capillary Tube	Without Expansion Device	Phase Sequencer c/w Disc Ther	Gold Fin (NA549)	Check valve	With Accumulator
HEATPUMP MODELS	075FR	FBEA	X		X		X			X						X			X	X	X	X
	100FR	FBEA	X		X		X			X						X			X	X	X	X
	125FR	FBEA	X		X		X			X						X			X	X	X	X

Features

EASY MAINTENANCE

The simple design concept has provided the ease of maintenance and servicing. Access to the internal part of the unit can be from the service panel or other side of the unit by loosening a few screws.



Only for model MDB075/100ER with additional service panel from bottom

AIR DISCHARGE ORIENTATION

MDB075-150ER models come with standard horizontal air discharge. MDB200-500ER models only come with standard vertical air discharge and they are convertible to horizontal air discharge at field. MDB600ER is available in horizontal and vertical air discharge as standard by differentiate of nomenclature.

VERSATILITY

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

FRESH AIR INTAKE 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

MDB125-600ER models using belt driven blower such as that the air volume and static required can be adjusted according to the requirement. This flexibility allows for wider application.

SCROLL COMPRESSOR

All M(4)MC-ER outdoor units are using the scroll compressor which has better energy efficiency and quiet in operation.

THERMAL EXPANSION VALVE (TXV) CONTROL

All MDB-ER heatpump models are using TXV in both indoor and outdoor to control the refrigerant control device except MDB125ER2.

SEQUENTIAL CONTROLLER AS STANDARD

This controller is supplied as the standard specification for cooling model where the systems are matching with two outdoor units and more. The benefit of this controller is capable of part-loading of the system capacity.

TAPER LOCK PULLEY - EASY MAINTENANCE

For MDB125-ER model and above which are using taper lock pulley to drive the blower with V-groove belt. This taper lock pulley can be installed or dismantling easily during maintenance.

UNIT STRUCTURE

The casing is constructed with electro-galvanised (EG) mild steel sheet which provide a rigid cabinet. The thickness of the indoor casing is ranging from 1.0mm to 3.2mm whereas the outdoor casing thickness is ranging from 1.0mm to 2.3mm. The finishing of the casing is a long-lasting epoxy polyester powder coating. The indoor panel is using PE insulation with 10mm thickness. All outdoor units are classified under the IP55 Standard.

COIL

Each coil consists of staggered rows of 3/8" OD seamless copper tubes, mechanically expanded into die-formed corrugated aluminum fins. All coils are using aluminum fin except heatpump models which are using hydrophilic blue fin to have better deicing during defrost cycle.

BLOWER, FAN AND MOTOR

The indoor unit is using metal blower with the forward-curved fan blade and secured by the metal housing. The outdoor propeller fan is constructed from 6-blade aluminum material and direct-driven by weatherproof three phase induction motor. All motor has the Class F (155°C) insulation.

COMPRESSOR

All outdoor units are using high efficiency, refrigerant-cooled, Scroll compressor. Compressor has the internal overload protection and supplied with crank case heater to prevent liquid migration, which can damage compressor scroll, during off-cycle and eases start-up.

SAFETY CONTROLS

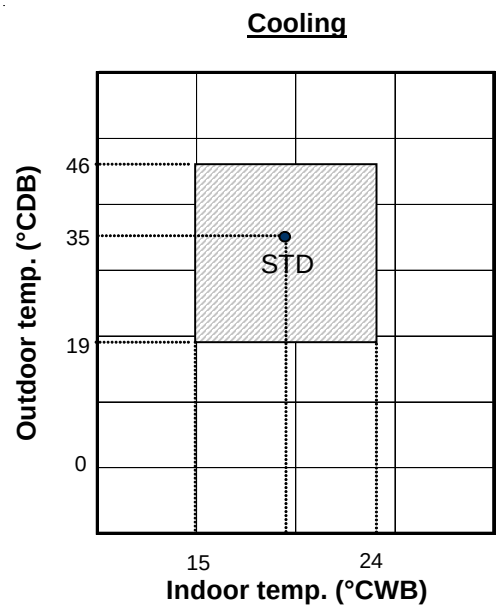
Outdoor units are equipped with auto reset high pressure and low pressure cut-out and discharge thermostat to protect against compressor damage due to high head pressure and system leakage respectively. Phase protector is used to detect for any wrong phase and phase loss during installation and operation.

Application Information

OPERATING RANGE

Ensure the operating temperature is in allowable range.

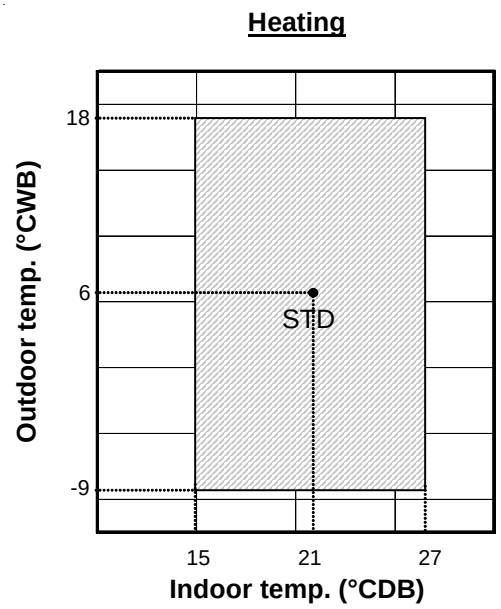
Cooling only

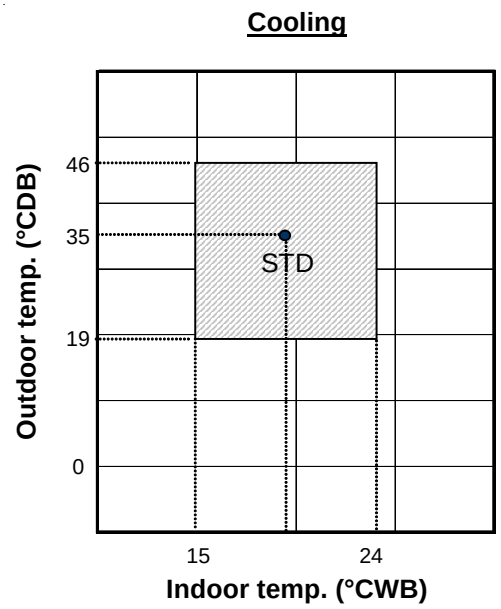


Caution :

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

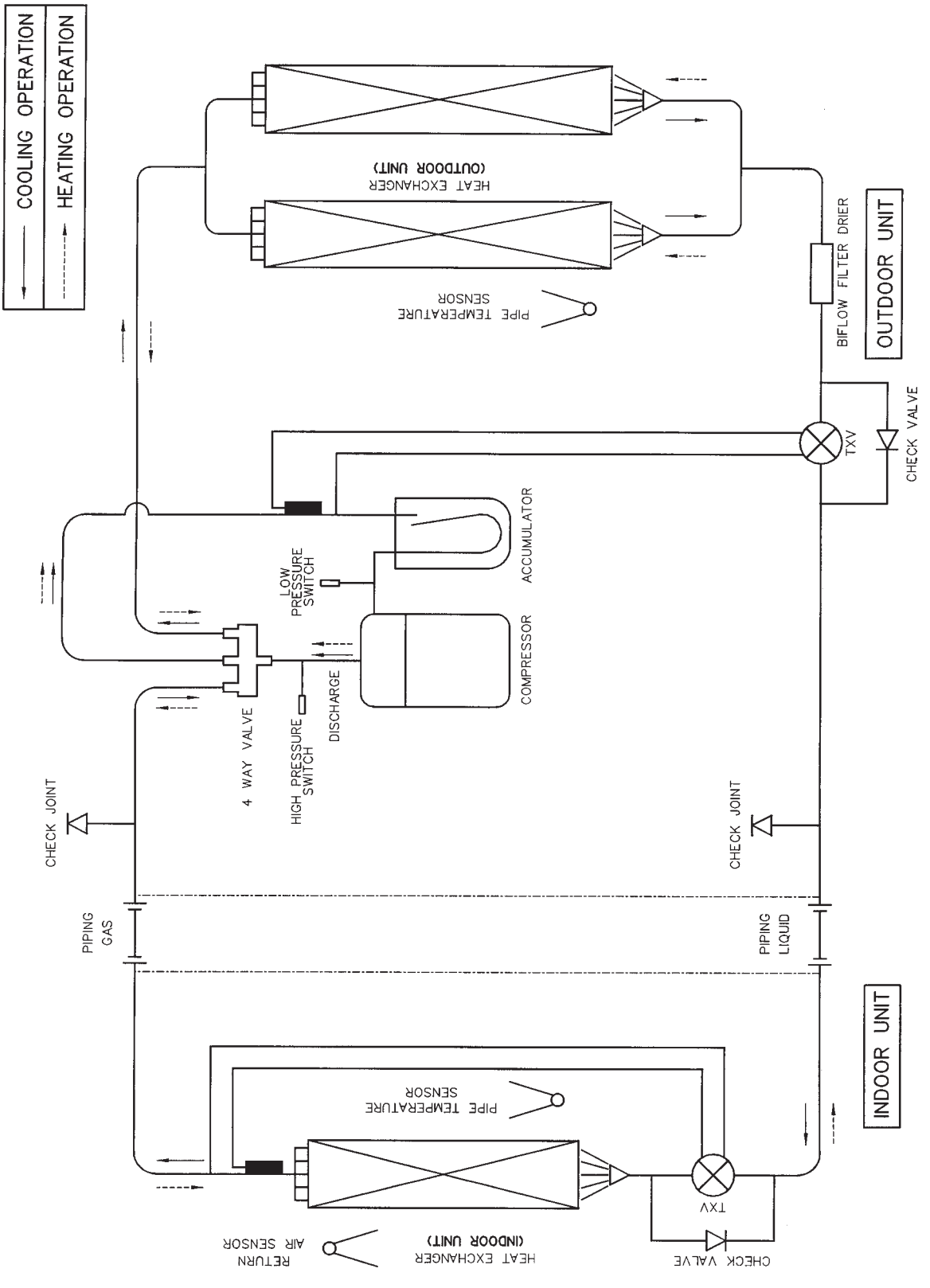
Heatpump



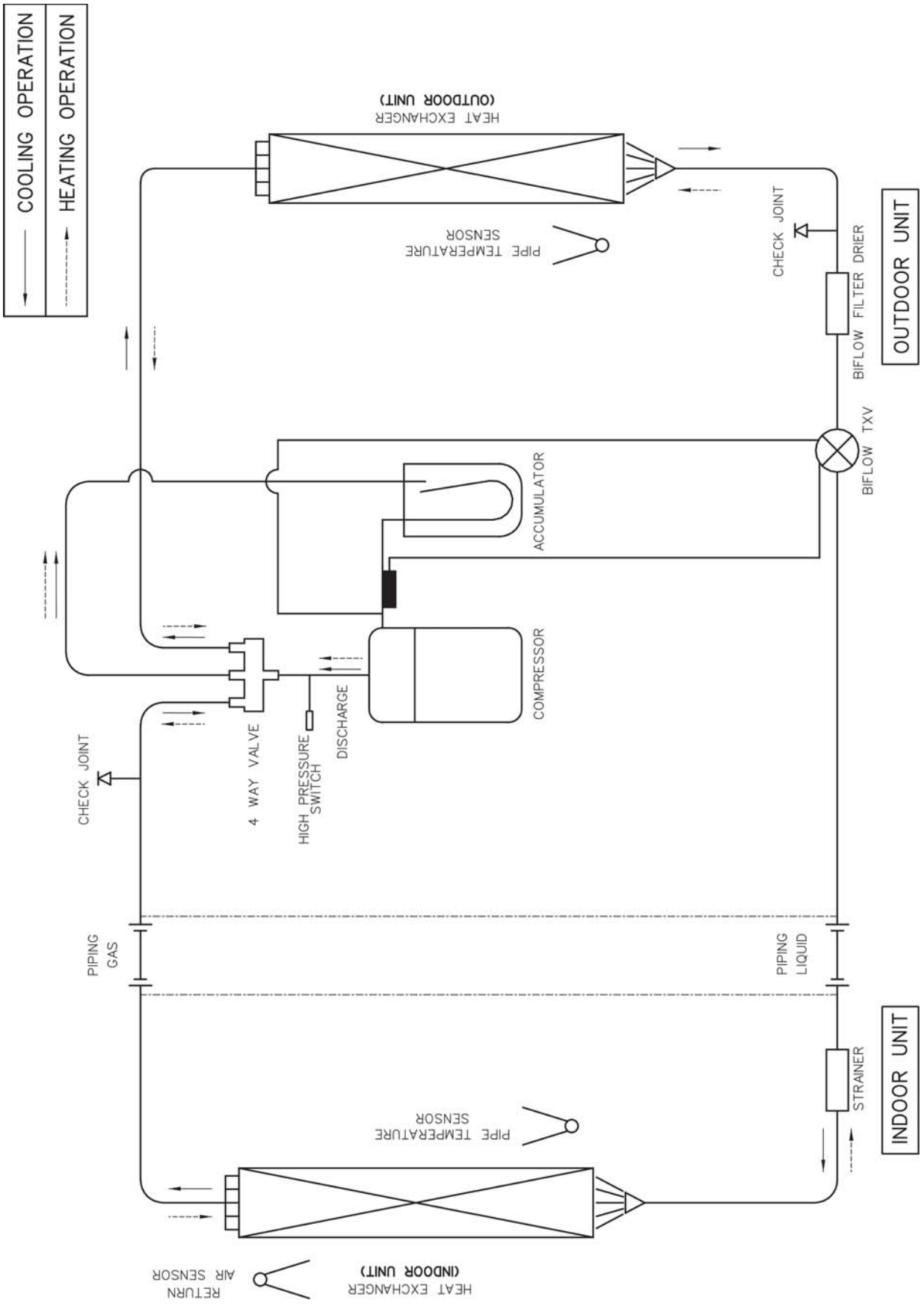


REFRIGERANT CIRCUIT DIAGRAM

MODEL : MMC 075 / 100 / 125 / 150 ER
M4MC 075 / 100 / 125 / 150 ER



MODEL : MMC075 - 125FR



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 over current 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.

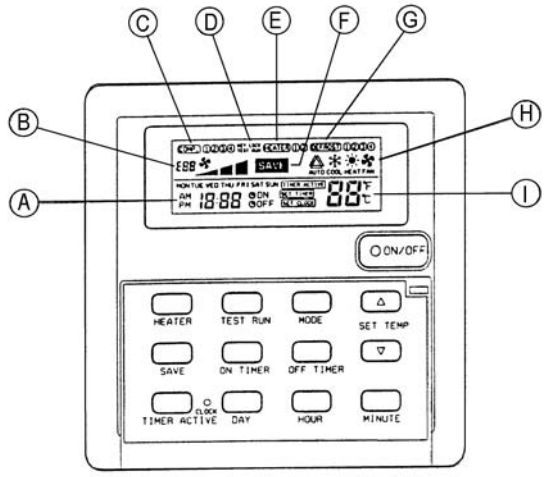
Evaporator blowers are running and discharging cool air from ducts.

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)

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.

7 days timer

Press the **ON TIMER** key to activate auto ON 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 auto OFF 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 7 days 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 7 days 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

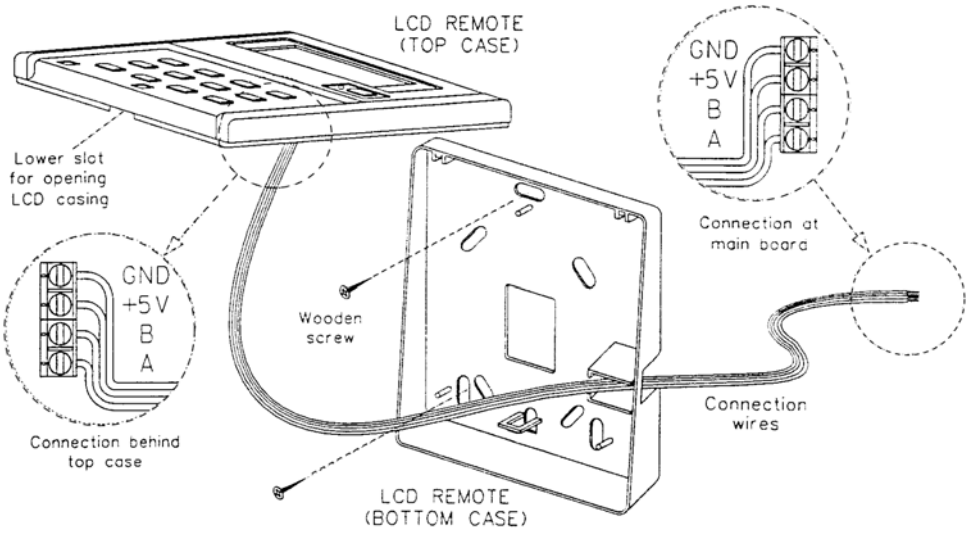
4.2 Step by step guide

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.

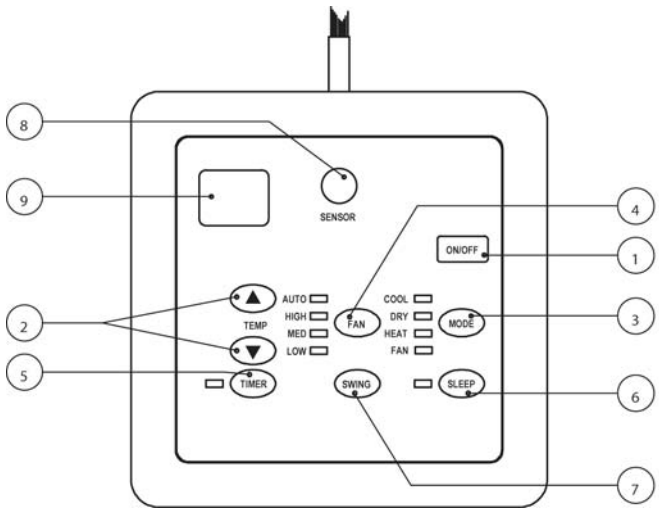
iv) Fasten back the top and bottom case into place. Hook the two upper claws into their respective slots and snap the lower part shut.



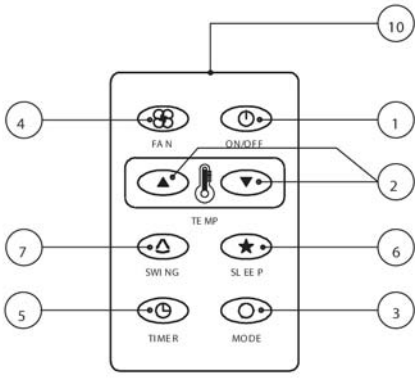
5. AUTO RANDOM RESTART

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 OPERATING INSTRUCTIONS



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

SPECIAL PRECAUTIONS WHEN DEALING WITH REFRIGERANT R407C UNIT

1) WHAT IS NEW REFRIGERANT R407C?

R407C is a zeotropic refrigerant mixture which has Zero Ozone Depletion Potential (ODP = 0) and thus conformed to the Montreal Protocol regulation. It requires Polyol-ester oil (POE) oil for its compressor's lubricant. Its refrigerant capacity and performance are about the same as the refrigerant R22.

2) COMPONENTS

Mixture weight compositionR32(23%), R125(25%), R134a(52%)

3) CHARACTERISTIC

- R407C liquid and vapor components have different compositions when the fluid evaporates or condenses. Hence, when leak occurs and only vapor leaks out, the composition of the refrigerant mixture left in the system will change and subsequently affect the system performance. **DO NOT** add new refrigerant to leaked system. It is recommended that the system should be evacuated thoroughly before recharging with R407C.
- When refrigerant R407C is used, the composition will differ depending on whether it is in gaseous or liquid phase. Hence when charging R407C, ensure that only liquid is being withdrawn from the cylinder or can. This is to make certain that only original composition of R407C is being charged into the system.
- POE oil is used as lubricant for R407C compressor, which is different from the mineral oil used for R22 compressor. Extra precaution must be taken not to expose the R407C system too long to moist air.

4) CHECK LIST BEFORE INSTALLATION/SERVICING

- Tubing
  Refrigerant R407C is more easily affected by dust of moisture compared with R22, make sure to temporarily cover the ends of the tubing prior to installation
- Compressor oil
  No additional charge of compressor oil is permitted.
- Refrigerant
  No other refrigerant other that R407C
- Tools
  Tools specifically for R407C only (must not be used for R22 or other refrigerant)
  i) Manifold gauge and charging hose
  ii) Gas leak detector
  iii) Refrigerant cylinder/charging cylinder
  iv) Vacuum pump c/w adapter
  v) Flare tools
  vi) Refrigerant recovery machine

5) HANDLING AND INSTALLATION GUIDELINES

Like R22 system, the handling and installation of R407C system are closely similar. All precautionary measures; such as ensuring no moisture, no dirt or chips in the system, clean brazing using nitrogen, and thorough leak check and vacuuming are equally important requirements. However, due to zeotropic nature of R407C and its hydroscopic POE oil, additional precautions must be taken to ensure optimum and trouble free system operation.

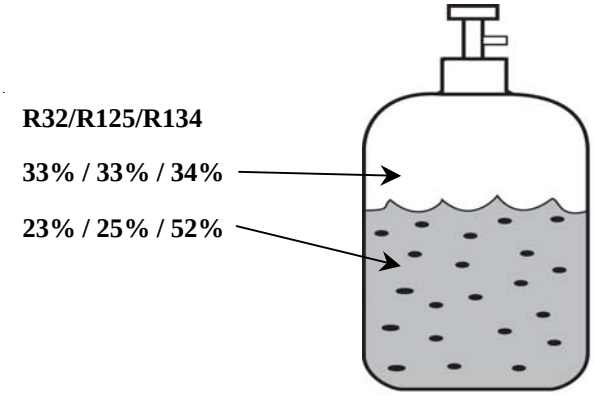
a) Filter dryer must be installed along the liquid line for all R407C air conditioners. This is to minimise the contamination of moisture and dirt in the refrigerant system. Filter dryer must be of molecular sieve type. For a heat pump system, install a two--way flow filter dryer along the liquid line.

b) During installation or servicing, avoid prolong exposure of the internal part of the refrigerant system to moist air. Residual POE oil in the piping and components can absorb moisture from the air.

c) Ensure that the compressor is not expose to open air for more than the recommended time specified by its manufacturer (typically less than 10 minutes). Removed the seal plugs only when the compressor is about to be brazed.

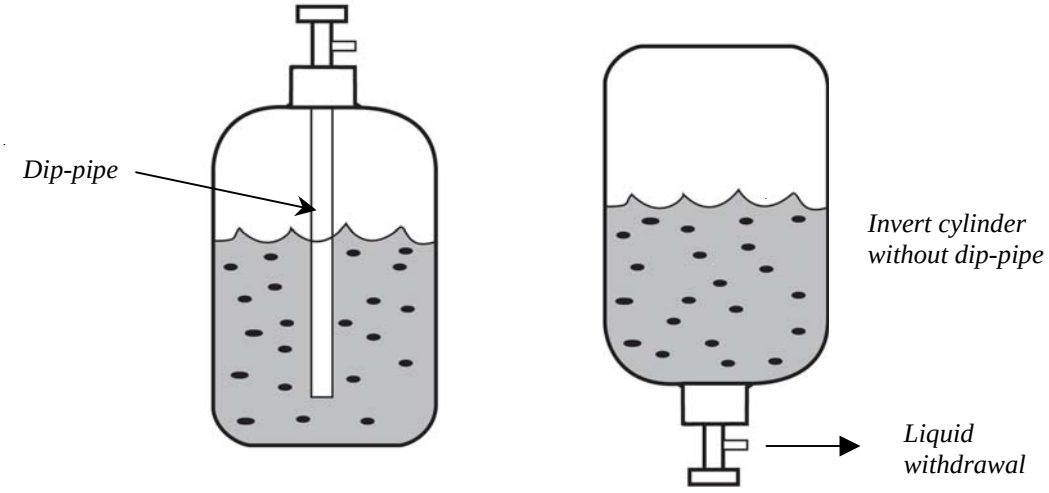
d) The system should be thoroughly vacuumed to 1.0 Pa (700mmHg) or lower. This vacuuming level is more stringent than R22 system so as to ensure no incompressible gas and moisture in the system.

e) When charging R407C, ensure that only liquid is being withdrawn from the cylinder or can. This is to ensure that only the original composition of R407C is being delivered into the system. The liquid composition can be different from the vapor composition.



Composition of R407C in vapour phase is different from liquid phase.

f) Normally, the R407C cylinder or can is being equipped with a dip pipe for liquid withdrawal. However, if the dip pipe is not available, invert the cylinder or can so as to withdraw liquid from the valve at the bottom.



g) When servicing leak, the top up method, commonly practiced for R22 system, is not recommended for R407C system. Unlike R22 where the refrigerant is of a single component, the composition of R407C, which made up of three different components, may have changed during the leak. Consequently, a top up may not ensure that the R407C in the system is of original composition. This composition shift may adversely affect the system performance. It is recommended that the system should be evacuated thoroughly before recharging with R407C.

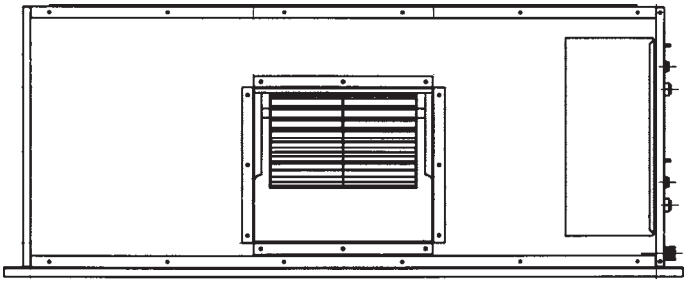
INSTALLATION (INDOOR)

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

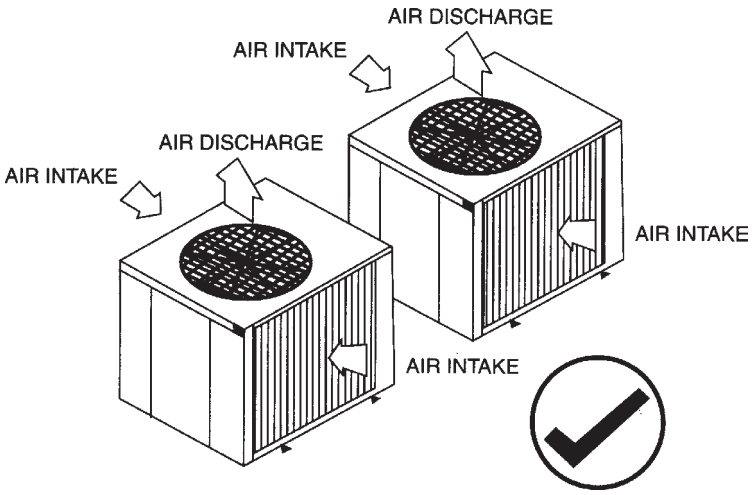
As wiring regulations differ from country to country, please refer to your LOCAL ELECTRICAL CODES for field wiring regulations and ensure that these are complied with. Besides, observe the following general precautions:

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.

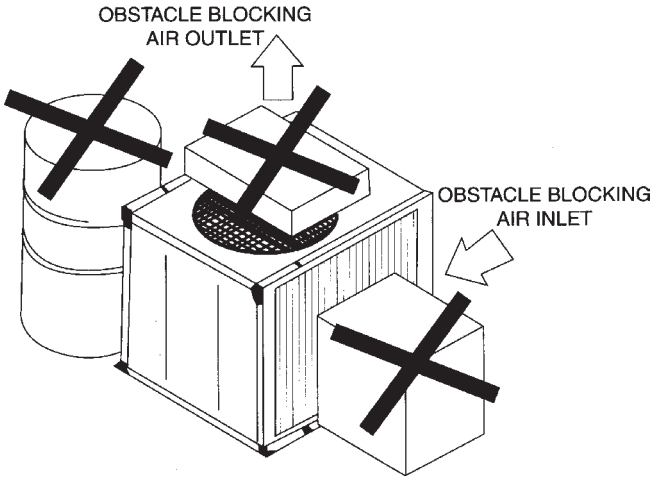
INSTALLTION (OUTDOOR)
LOCATION FOR INSTALLATION OF THE CONDENSING UNITS

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

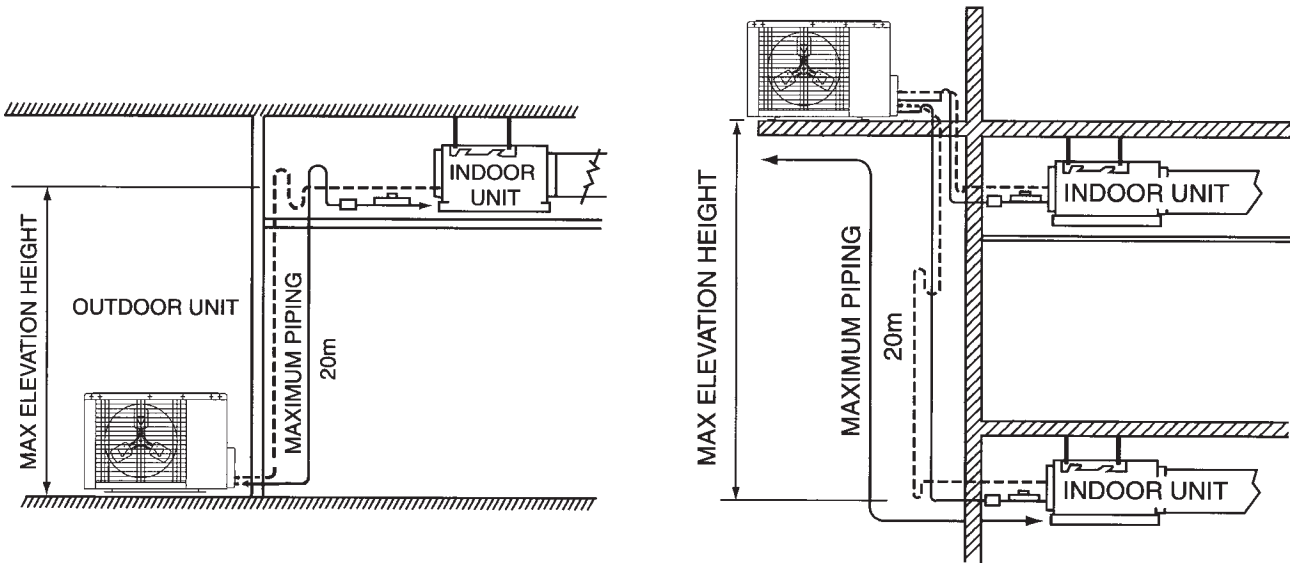
When the pipe is too long, the required refrigerant quantity increases. Both the capacity and reliability drops as a result. As the number of bends increases, system piping resistance to the refrigerant flow increases, thus lowering the cooling capacity and the compressor may become defective. If the 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, m (ft)	Max Total Length, m (ft)	Max of Bends
MMC 075/100/125/150ER	25 (82.0)	45 (147.6)	8
MMC 075/100/125/150FR	25 (82.0)	45 (147.6)	8
M4MC 075/100/125/150ER	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.**



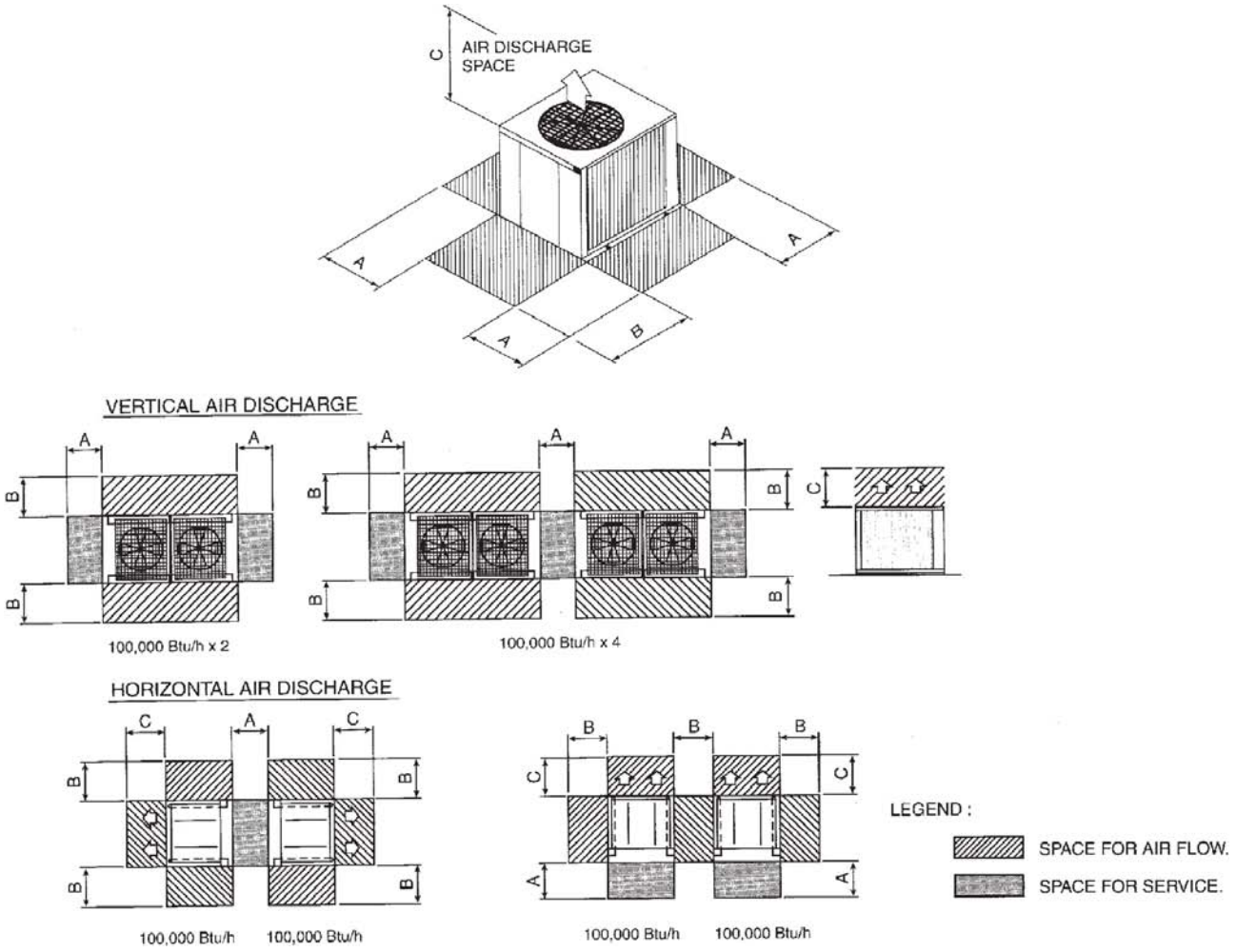
Maximum Allowable Piping Length & Elevation Difference

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	M(4)MC 075/100/125/150ER	2 x M(4)MC 075/100/125/150ER	3 x M(4)MC 075/100/125/150ER	4 x M(4)MC 075/100/125/150ER
A (mm)	300	600	600	600
B (mm)	1000	1000	1000	1000
C (mm)	1500	1500	2000	2000



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

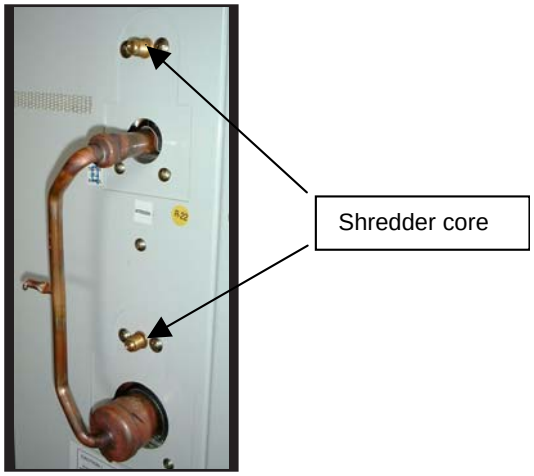
Most field-charging is done using standard service hoses. Hoses are made in different colors with different working pressures and with different leak rates but the most important point is the presence or absence of Shredder valve depressors. Shredder valve depressors severely restrict the flow through 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

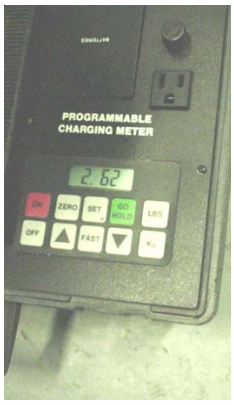
Copeland Scroll compressors have the different charge limits for different compressor models as shown in table below. If the total charge exceeds these limits, the system should have a crankcase heater and/or pump down cycle and/or accumulator to prevent liquid damage to the compressor. Some systems 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.

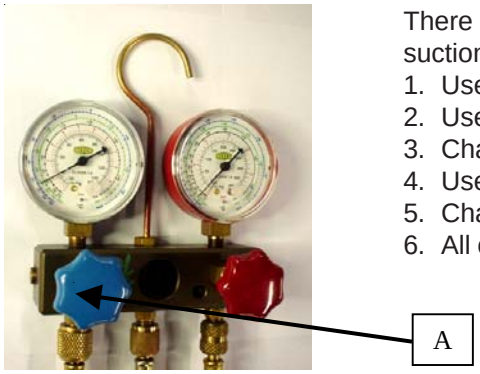
Charging Cylinder on Scale



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)
MDB075ER	**MMC075ER**	1/2	1	7.0
MDB075ER	**MMC075FR**	1/2	1	4.45
MDB100ER	**MMC100ER**	5/8	1-1/8	9.5
MDB100ER	**MMC100FR**	5/8	1-1/8	8.00
MDB125ER	**MMC125ER**	5/8	1-3/8	11.5
MDB125ER	**MMC125FR**	5/8	1-3/8	8.40
MDB150ER1	**MMC150ER**	5/8	1-3/8	11.9
MDB150ER2	**MMC075ER x 2**	1/2	1	7.0 x 2
MDB200ER2	**MMC100ER x 2**	5/8	1-1/8	9.5 x 2
MDB250ER2	**MMC125ER x 2**	5/8	1-3/8	11.5 x 2
MDB300ER2	**MMC150ER x 2**	5/8	1-3/8	11.9 x 2
MDB300ER3	**MMC100ER x 3**	5/8	1-1/8	9.5 x 3
MDB350ER3	**MMC125ER x 2 & MMC100ER**	5/8	1-1/8 & 1-3/8	11.5 x 2 + 9.5
MDB400ER4	**MMC100ER x 4**	5/8	1-1/8	9.5 x 4
MDB450ER3	**MMC150ER x 3**	5/8	1-3/8	11.9 x 3
MDB500ER4	**MMC125ER x 4**	5/8	1-3/8	11.5 x 4
MDB600ER4	**MMC150ER x 4**	5/8	1-3/8	11.9 x 4
MDB075ER	**M4MC075ER**	1/2	1	6.5
MDB100ER	**M4MC100ER**	5/8	1-1/8	9.5
MDB125ER	**M4MC125ER**	5/8	1-3/8	10.1
MDB150ER1	**M4MC150ER**	5/8	1-3/8	9.0
MDB150ER2	**M4MC075ER x 2**	1/2	1	6.5 x 2
MDB200ER2	**M4MC100ER x 2**	5/8	1-1/8	9.5 x 2
MDB250ER2	**M4MC125ER x 2**	5/8	1-3/8	10.1 x 2
MDB300ER2	**M4MC150ER x 2**	5/8	1-3/8	9.0 x 2
MDB300ER3	**M4MC100ER x 3**	5/8	1-1/8	9.5 x 3
MDB350ER3	**M4MC125ER x 2 & M4MC100ER**	5/8	1-1/8 & 1-3/8	10.1 x 2 + 9.5
MDB400ER4	**M4MC100ER x 4**	5/8	1-1/8	9.5 x 4
MDB450ER3	**M4MC150ER x 3**	5/8	1-3/8	9.0 x 3
MDB500ER4	**M4MC125ER x 4**	5/8	1-3/8	10.1 x 4
MDB600ER4	**M4MC150ER x 4**	5/8	1-3/8	9.0 x 4

Remarks:
With Scroll Compressor and Outdoor and Indoor with TXV and Check Valave.

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”	0.10
5/8”	0.17
3/4”	0.26
7/8”	0.37

Note: Refer to the table of the Recommended Maximum Pipe Length.

Sound Data

MDB-ER SERIES

SOUND PRESSURE LEVEL

Model	Speed	1/1 Octave Sound Pressure Level (dB, ref 20μPa)							Overall A (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
*MDB075ER	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
*MDB100ER	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
*MDB125ER	High	57	55	56	53	51	46	38	58	53
*MDB150ER	High	58	56	57	54	52	47	39	59	54
MDB200ER	High	60	56	58	56	54	49	41	61	55
MDB250ER	High	62	57	59	59	57	52	43	63	58
MDB300ER	High	66	60	62	61	59	54	44	66	60
MDB350ER	High	67	60	62	62	59	54	44	66	61
MDB400ER	High	67	64	63	63	59	54	45	66	62
MDB450ER	High	68	64	65	63	60	55	46	68	62
MDB500BR	High	69	66	66	64	61	56	47	68	63
MDB600ER	High	70	68	68	66	62	57	48	70	65

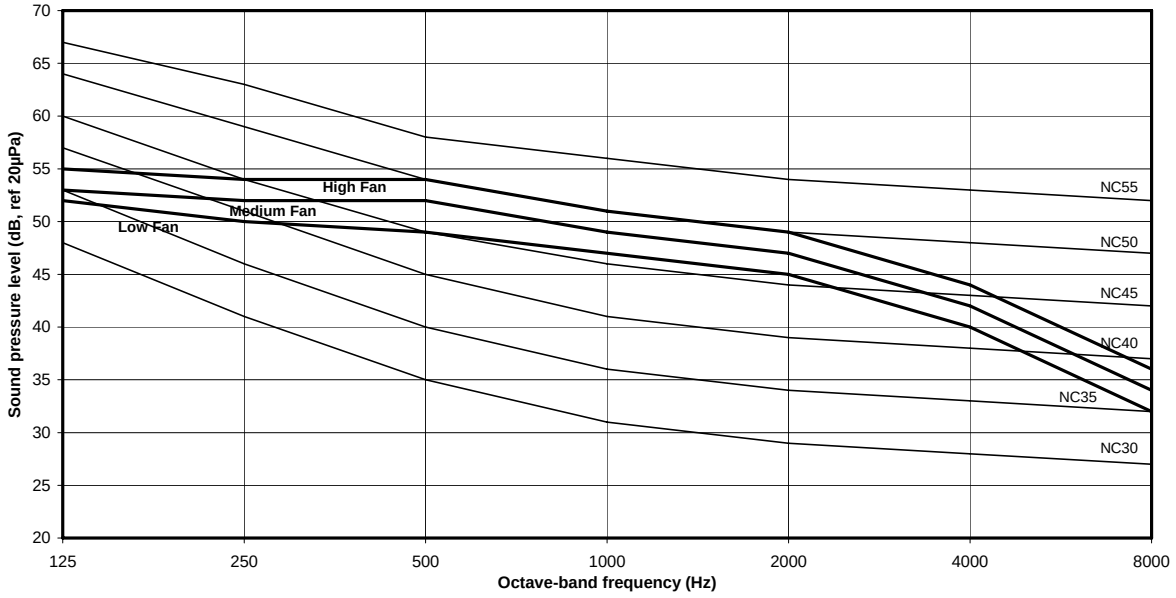
Microphone position: 1 m away from the service panel and 1 m height from the floor level (free return and the discharge air was ducted to adjacent room).
*Microphone position: 1.4 m below the unit, discharge air is ducted to adjacent room, free return.
Tested with 2m length duct at the air discharge outlet and air return inlet.

SOUND POWER LEVEL

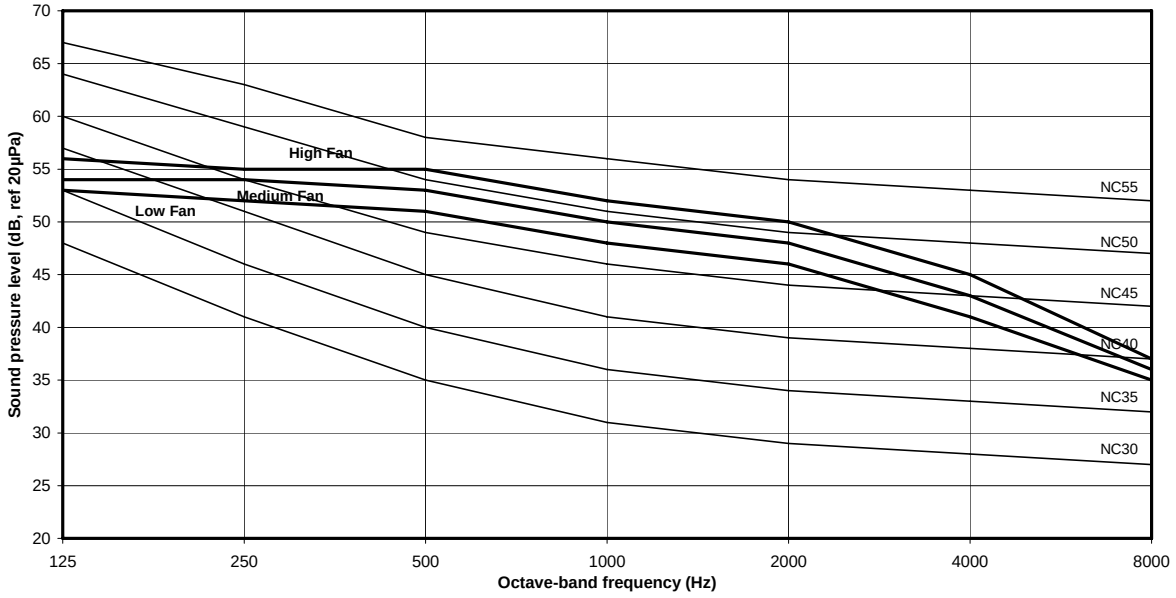
Model	Speed	1/1 Octave Sound Power Level (dB, reference 1pW)							Overall A (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
*MDB075ER	High	72	73	71	68	65	61	56	73
	Medium	70	70	68	65	62	58	53	70
	Low	68	67	65	62	59	55	50	67
*MDB100ER	High	74	74	73	70	67	63	58	75
	Medium	72	73	71	68	65	61	56	73
	Low	70	70	68	65	62	58	53	70
*MDB125ER	High	75	76	75	72	69	65	60	77
*MDB150ER	High	77	78	77	74	71	67	62	79
MDB200ER	High	83	84	83	81	77	73	68	85
MDB250ER	High	85	86	85	83	79	75	70	87
MDB300ER	High	87	88	87	85	81	77	72	89
MDB350ER	High	90	91	90	87	84	80	75	92
MDB400ER	High	88	89	88	86	82	78	73	90
MDB450ER	High	91	92	91	89	85	81	76	93
MDB500BR	High	94	95	94	92	88	84	79	96
MDB600ER	High	87	88	87	85	81	77	72	89

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

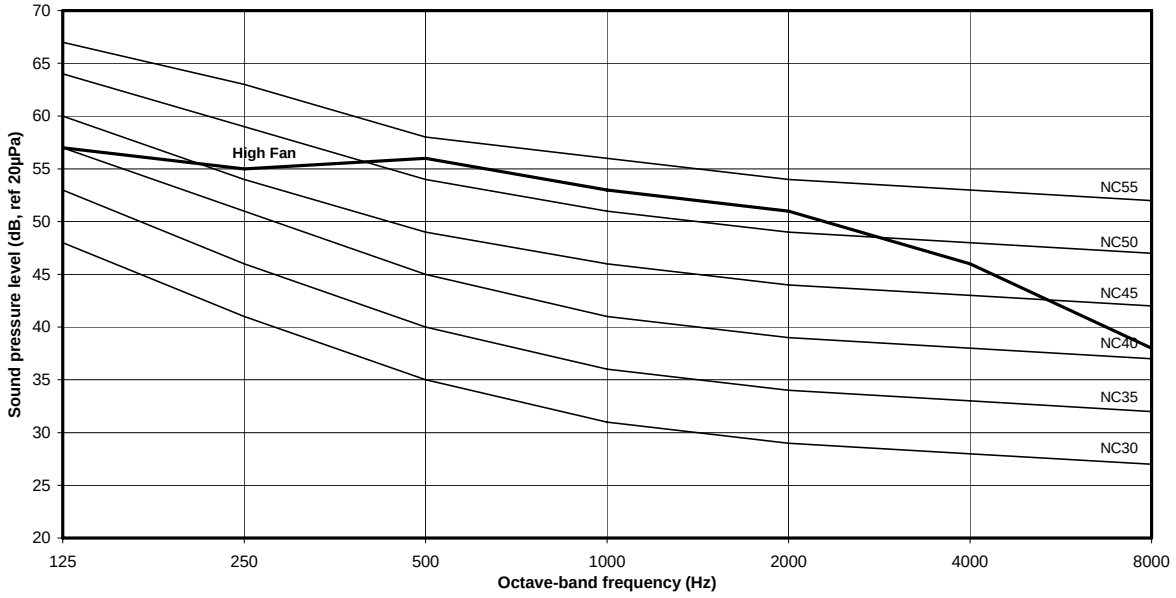
MDB075ER NC CURVE



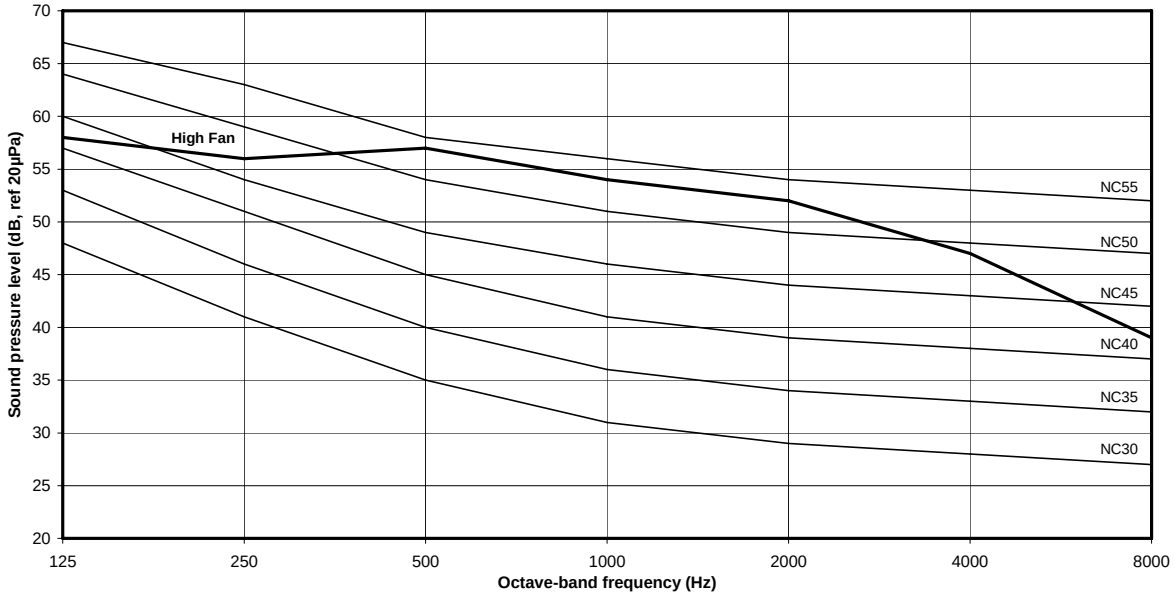
MDB100ER NC CURVE



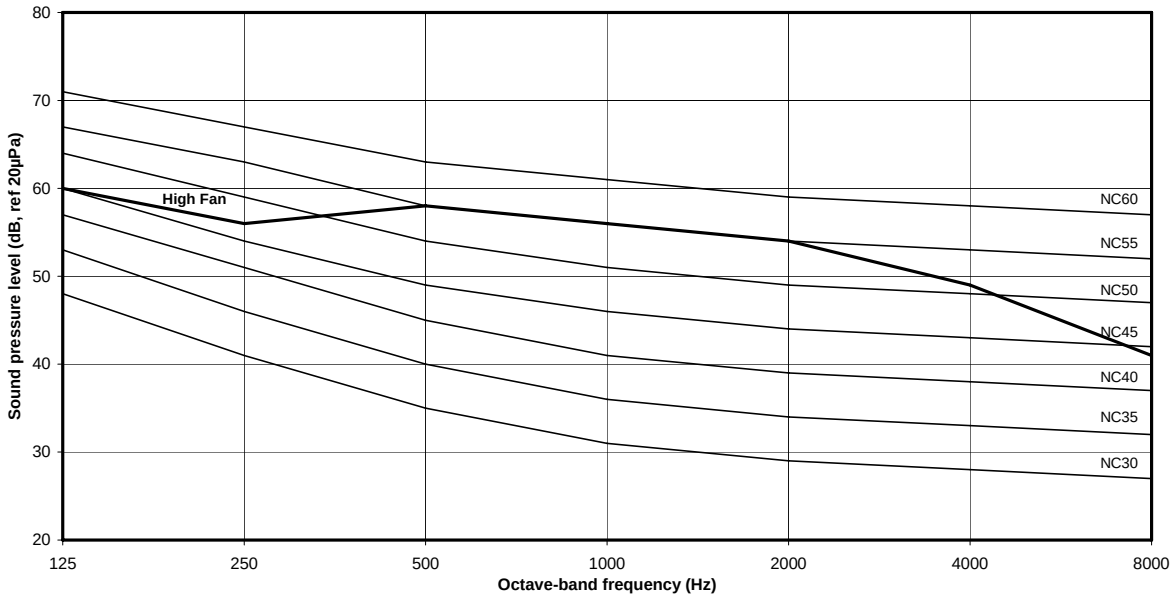
MDB125ER/ER2 NC CURVE



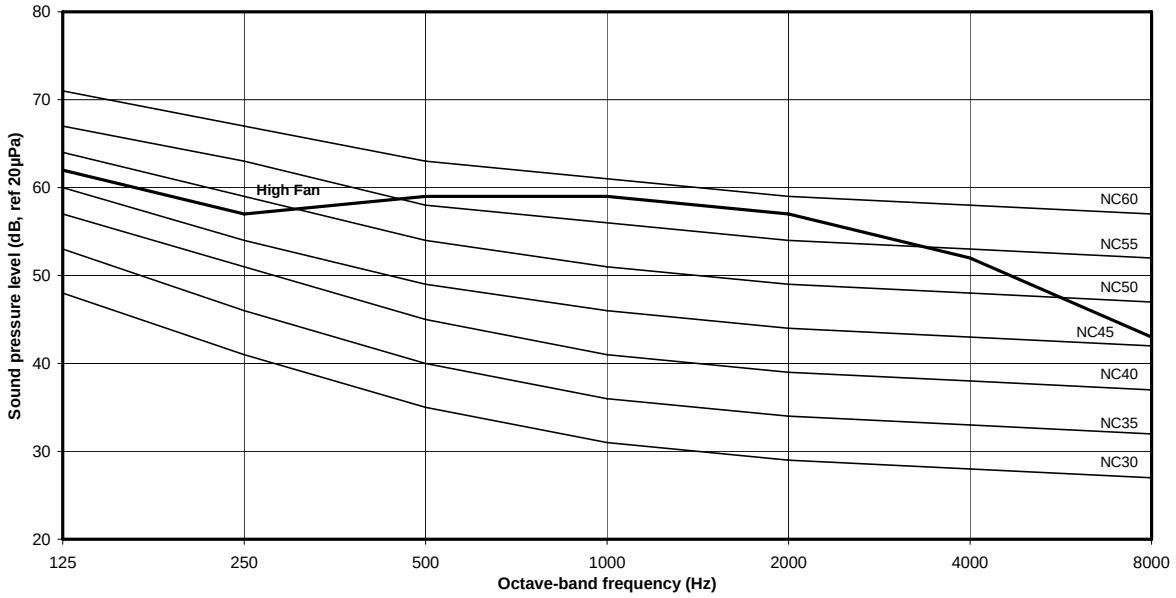
MDB150ER/ER2 NC CURVE



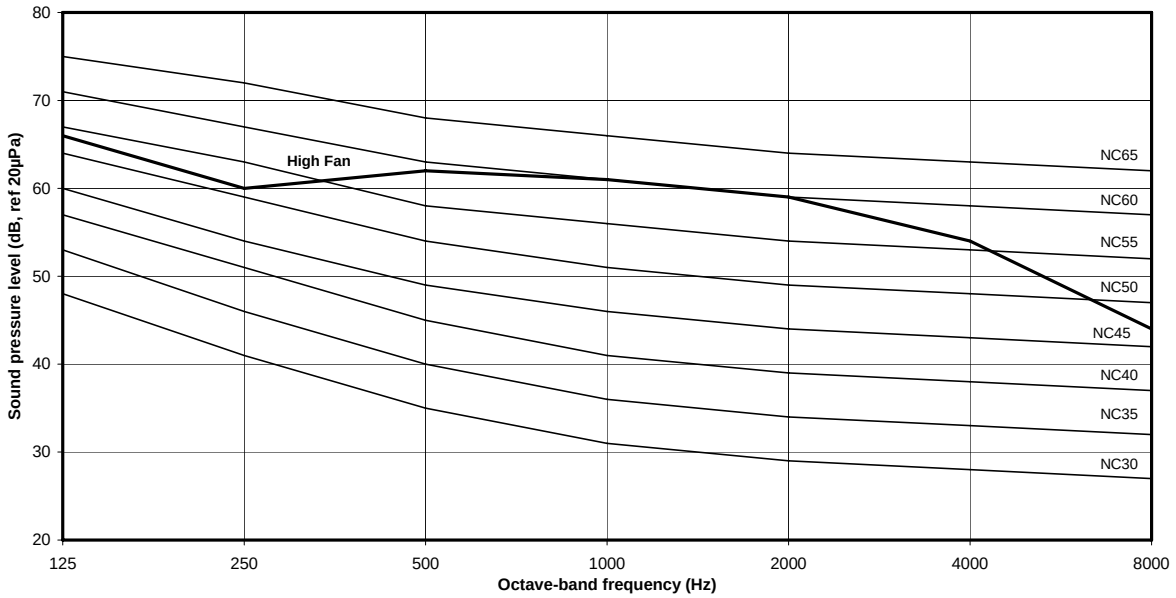
MDB200ER2 NC CURVE



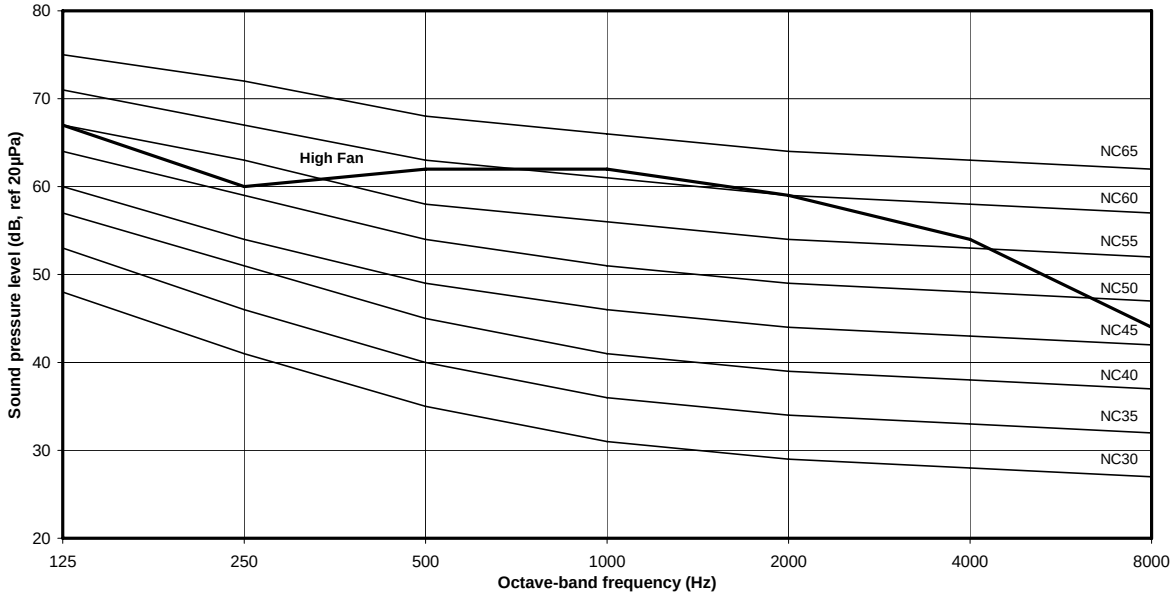
MDB250ER2 NC CURVE



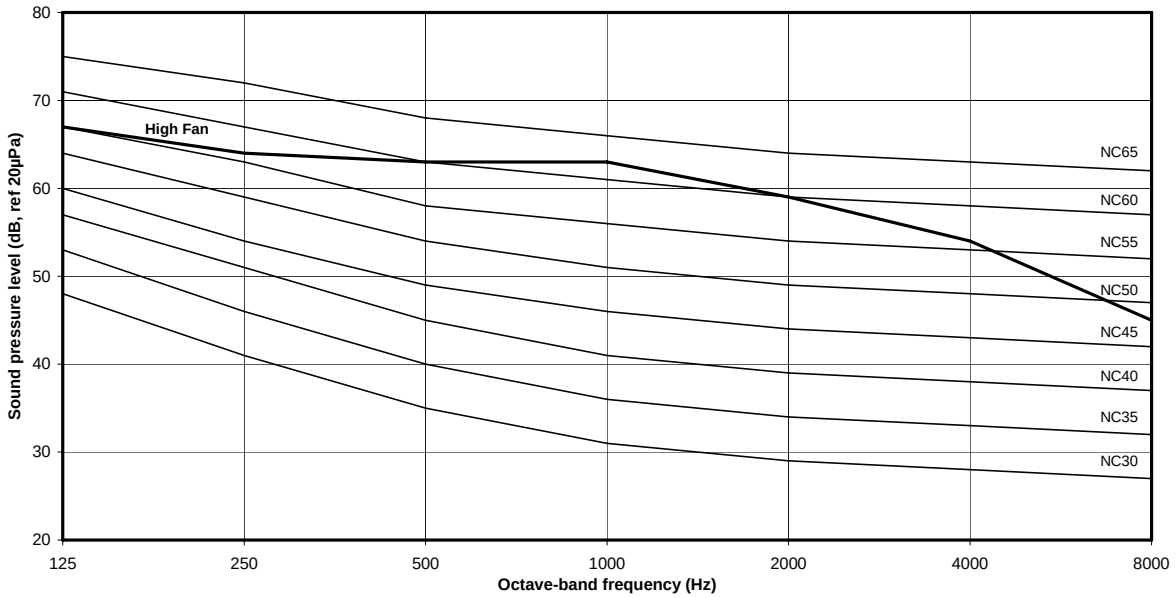
MDB300ER2/ER3 NC CURVE



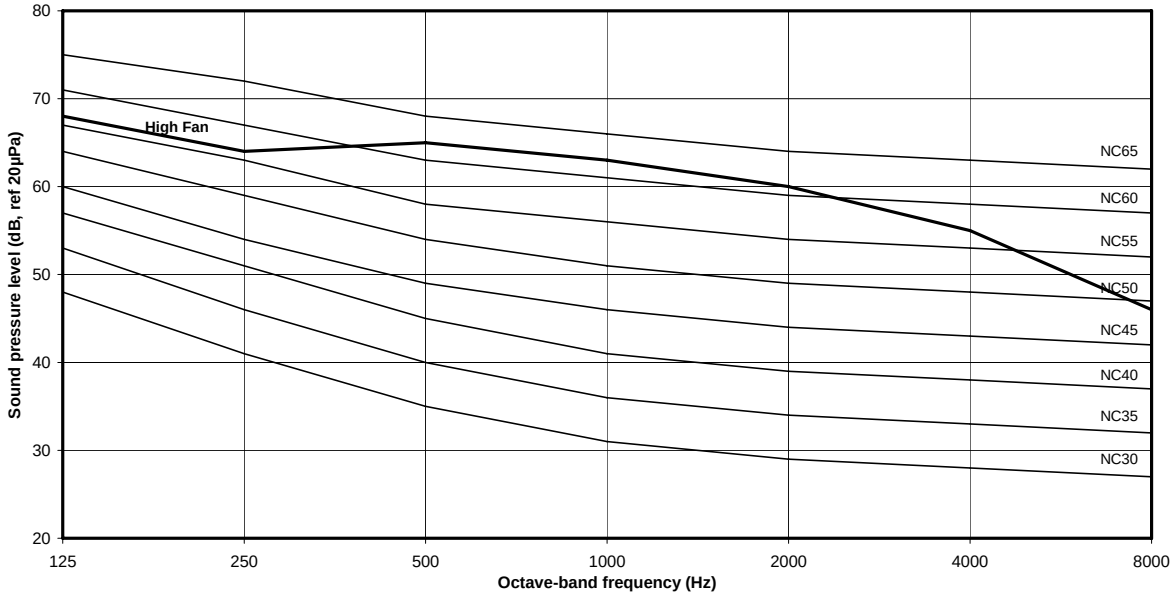
MDB350ER3 NC CURVE



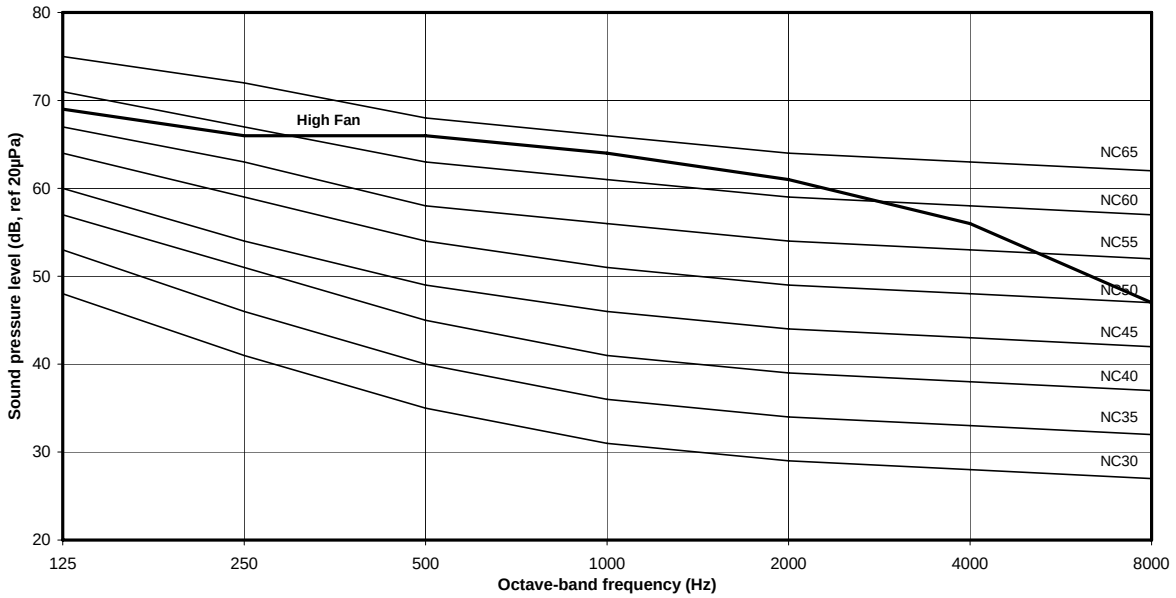
MDB400ER4 NC CURVE



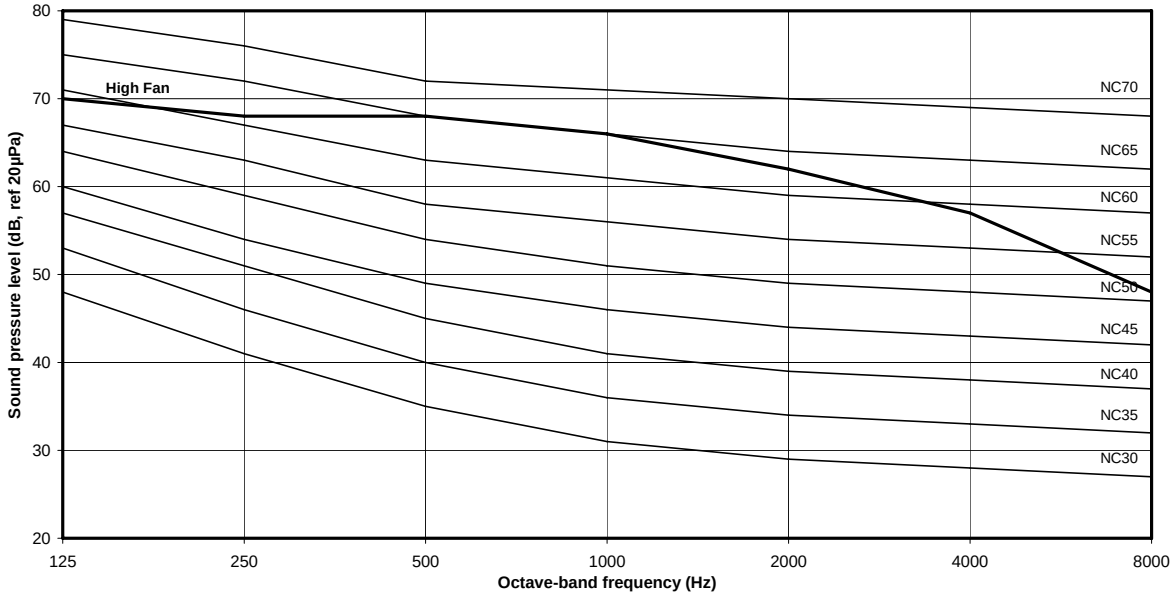
MDB450ER3 NC CURVE



MDB500ER4 NC CURVE



MDB600ER4 NC CURVE



Selection Process

FAN PERFROMANCE CHART

Example 1:

The following are the design requirements for MDB250ER2 unit:

Model:	**MDB250ER2**		
Supply Air Quantity	=	8000	CFM
External Static Pressure	=	48	mmAq

Step 1:

From the fan curve (at 8000 CFM),
Standard operating system;

Total Static Pressure	=	**48.1**	mmAq
Internal Static Pressure	=	**6.1**	mmAq
External Static Pressure	=	**42.0**	mmAq

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

Step 2:

Therefore at 8000 CFM and External Static Pressure of 29mmAq,

Total Static Pressure	=	6.1 + 48.1	mmAq
	=	**54.1**	mmAq

Step 3:

From the fan curve of MDB250ER2, the design requirement needs about 830 RPM, whereas the unit can only deliver 870 RPM under 8000 CFM. Therefore, it is necessary to resize the pulley sizes.

From the table next page, the standard component data as follow:

Motor pulley	=	90	mm
Blower pulley	=	180	mm
Motor RPM	=	1440	

In order to obtain 830 RPM, we recalculate the new blower pulley as:
(while maintaining the motor pulley)

Db	=	90 x 1440 / 830	
	=	156.2	mm

The nearest pulley size will be a diameter of 160 mm

Recheck, with Db	=	**160**	mm
Blower pulley	=	1440 x 90 / 160	
	=	**855**	

We thus need to change the blower pulley from 180mm to 160mm 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 (623) + 1.57 (95 + 160)	
	=	1646.35	mm

We thus can use a belt with a length of **1650 mm**

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 3.5 kW.

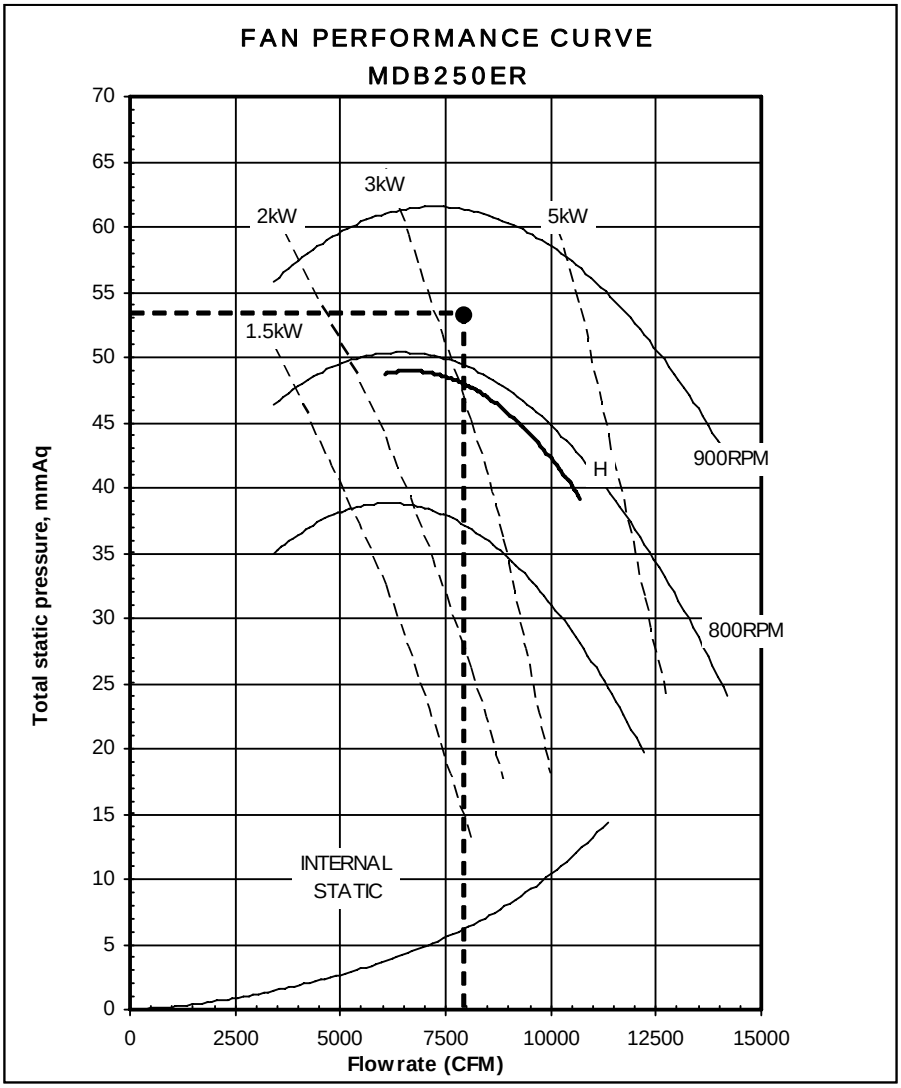
By applying a safety factor of 1.2 to account for losses, we calculate that the motor power input requirement should be = 3.5 x 1.2 = **4.2 kW**
Thus, the existing motor is still sufficient to drive the blower with the smaller 160mm pulley.

Summary:

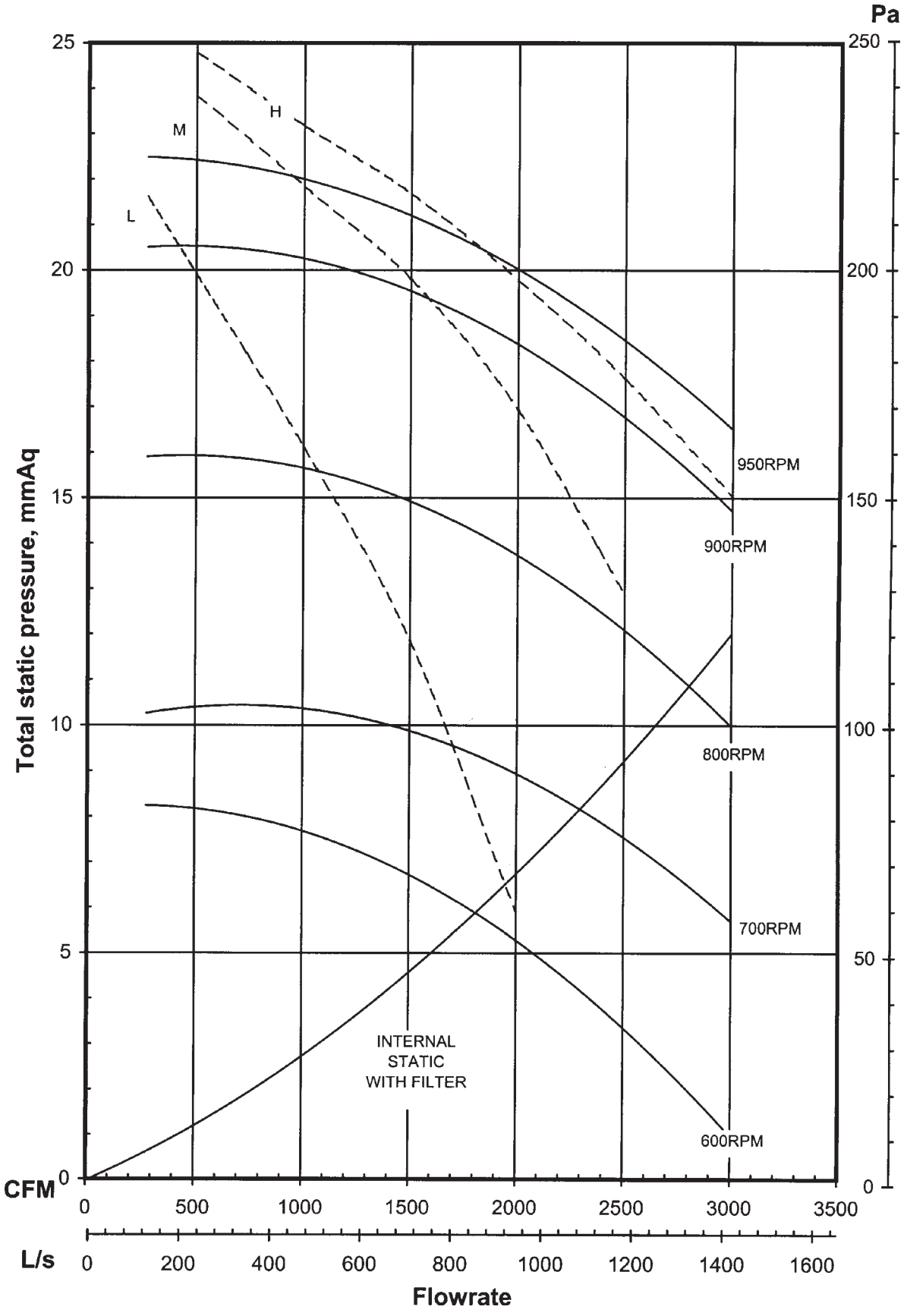
i) Blower pulley diameter	=	**160**	**mm**
ii) V-belt size	=	**1650**	**mm**

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

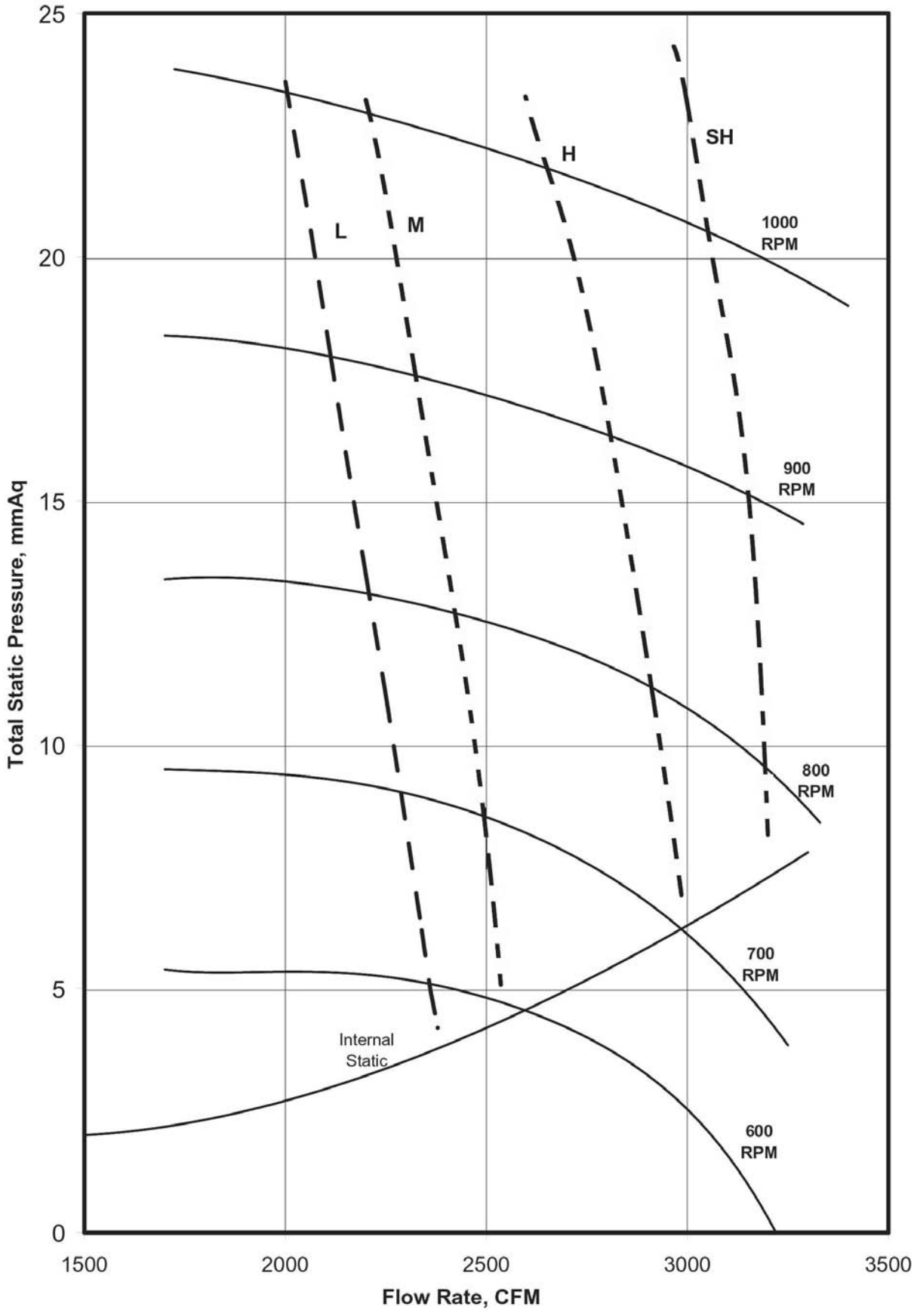
Model	Motor Pulley, D_m	Blower Pulley, D_b	Pulley Centre Distance, C		Motor (kW)	Motor RPM
	Taper # (mm)	Taper # (mm)	Horizontal	Vertical		
MDB125ER	85	160	180	-	1.5	1425
MDB150ER	75	160	180	-	1.5	1425
MDB200ER2	80	140	314	330	3	1430
MDB250ER2	90	180	599	623	4	1440
MDB300ER2	95	180	599	623	4	1440
MDB350ER3	125	250	840	870	5.5	1445
MDB400ER4	106	250	732	782	5.5	1445
MDB450ER3	112	250	738	768	7.5	1445
MDB500ER4	150	315	700	751	11	1445
MDB600ER4	132	400	300	490	11	1450



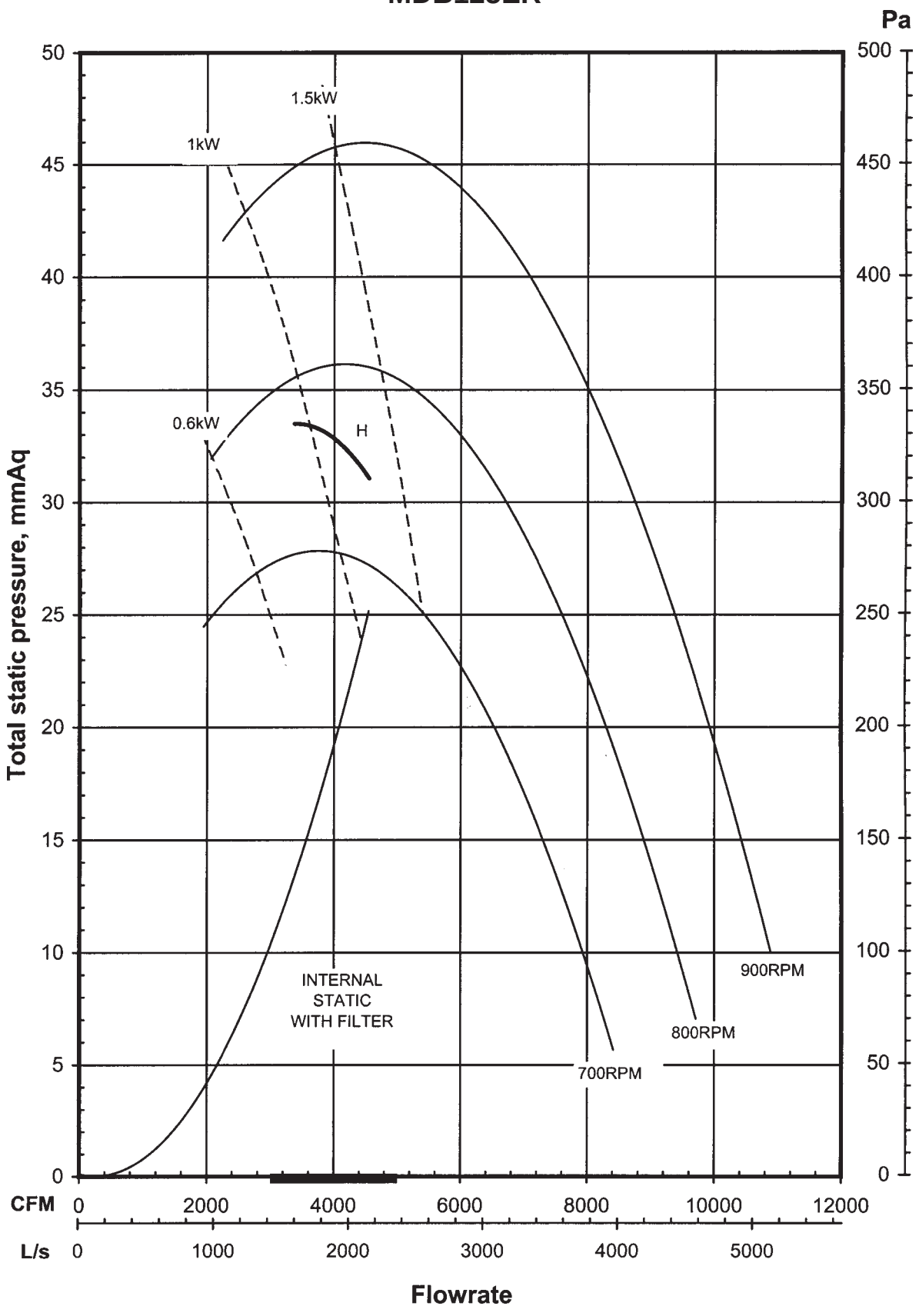
FAN PERFORMANCE CURVE
MDB075ER



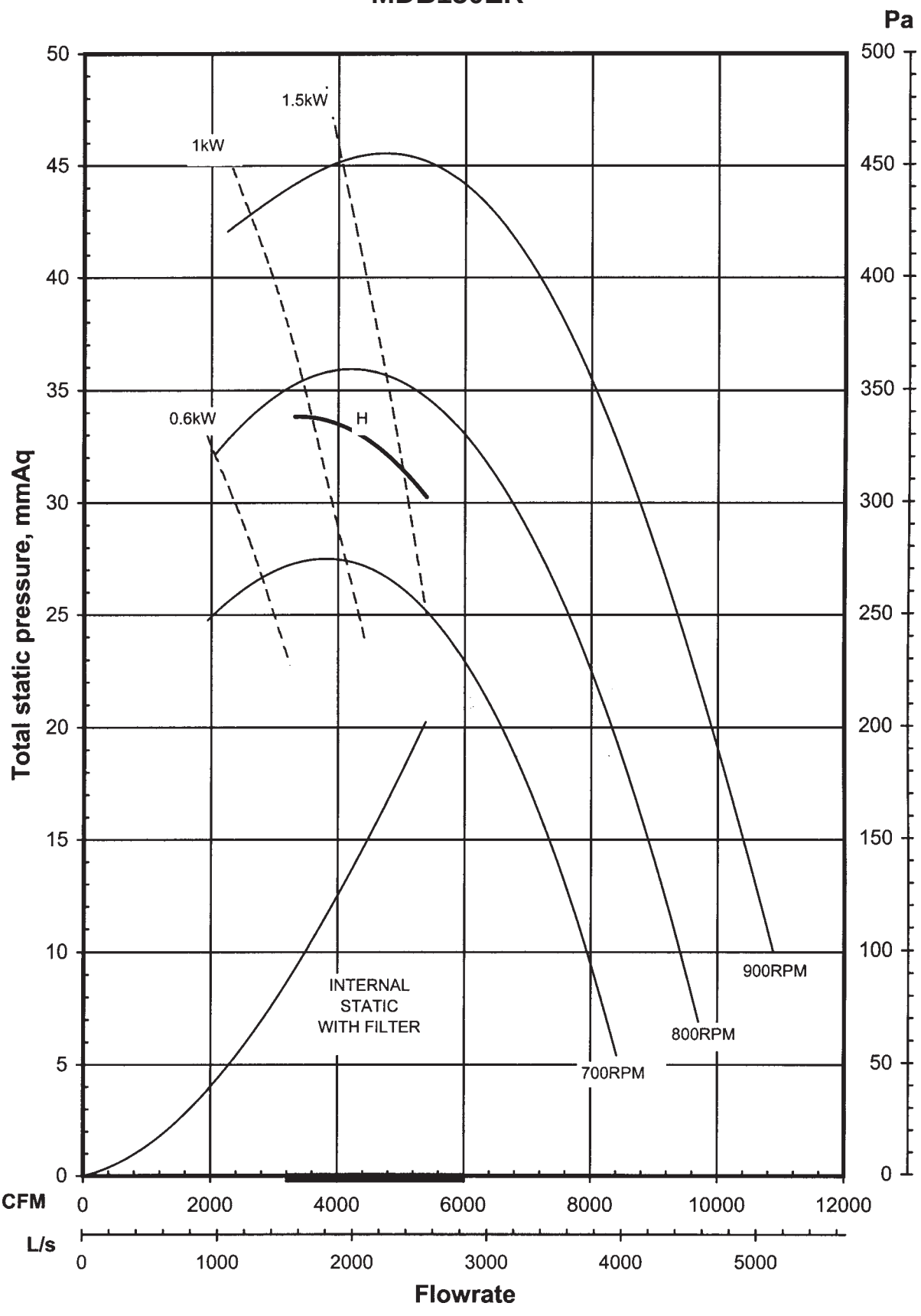
FAN PERFORMANCE CURVE
MDB100ER



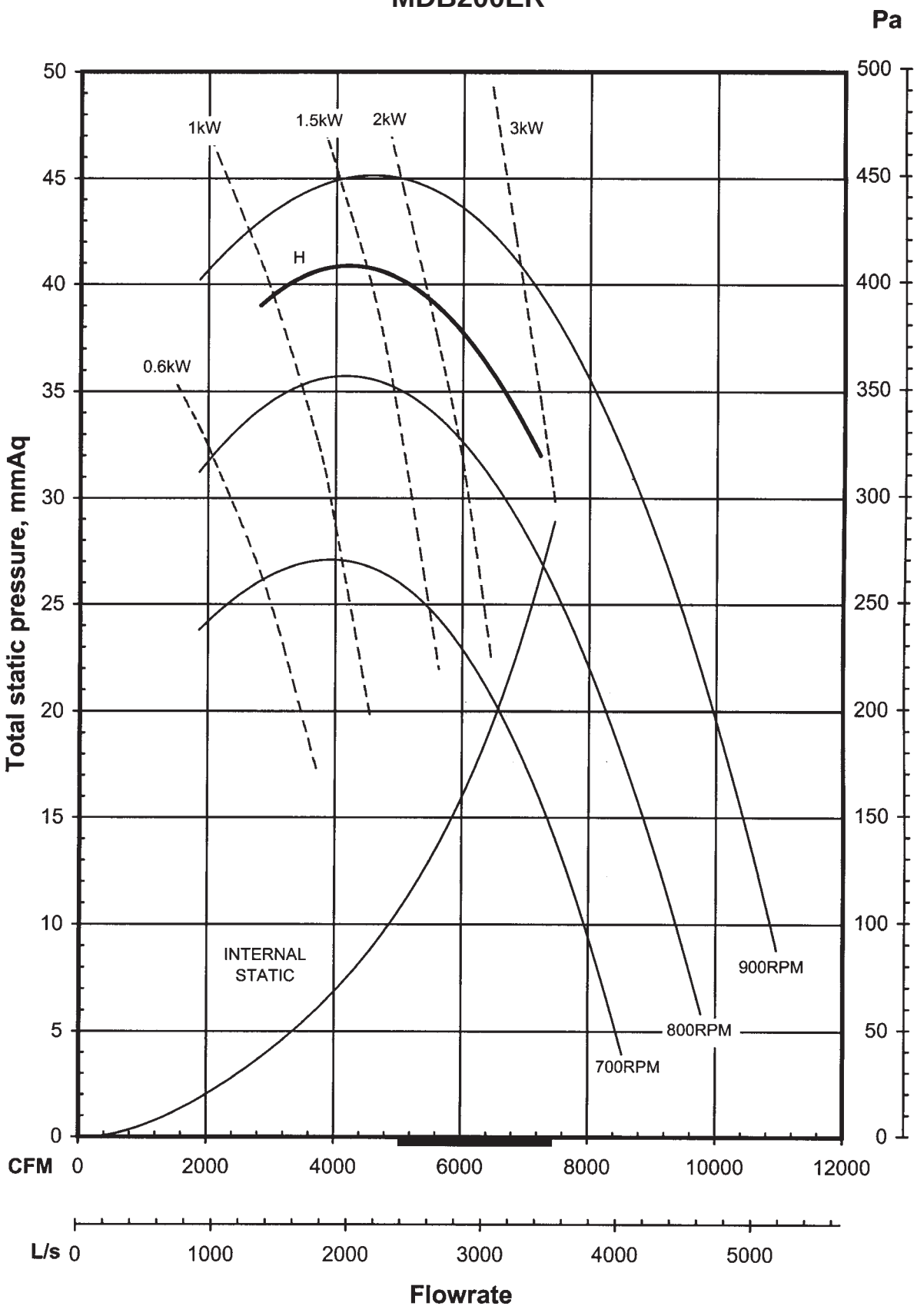
FAN PERFORMANCE CURVE
MDB125ER



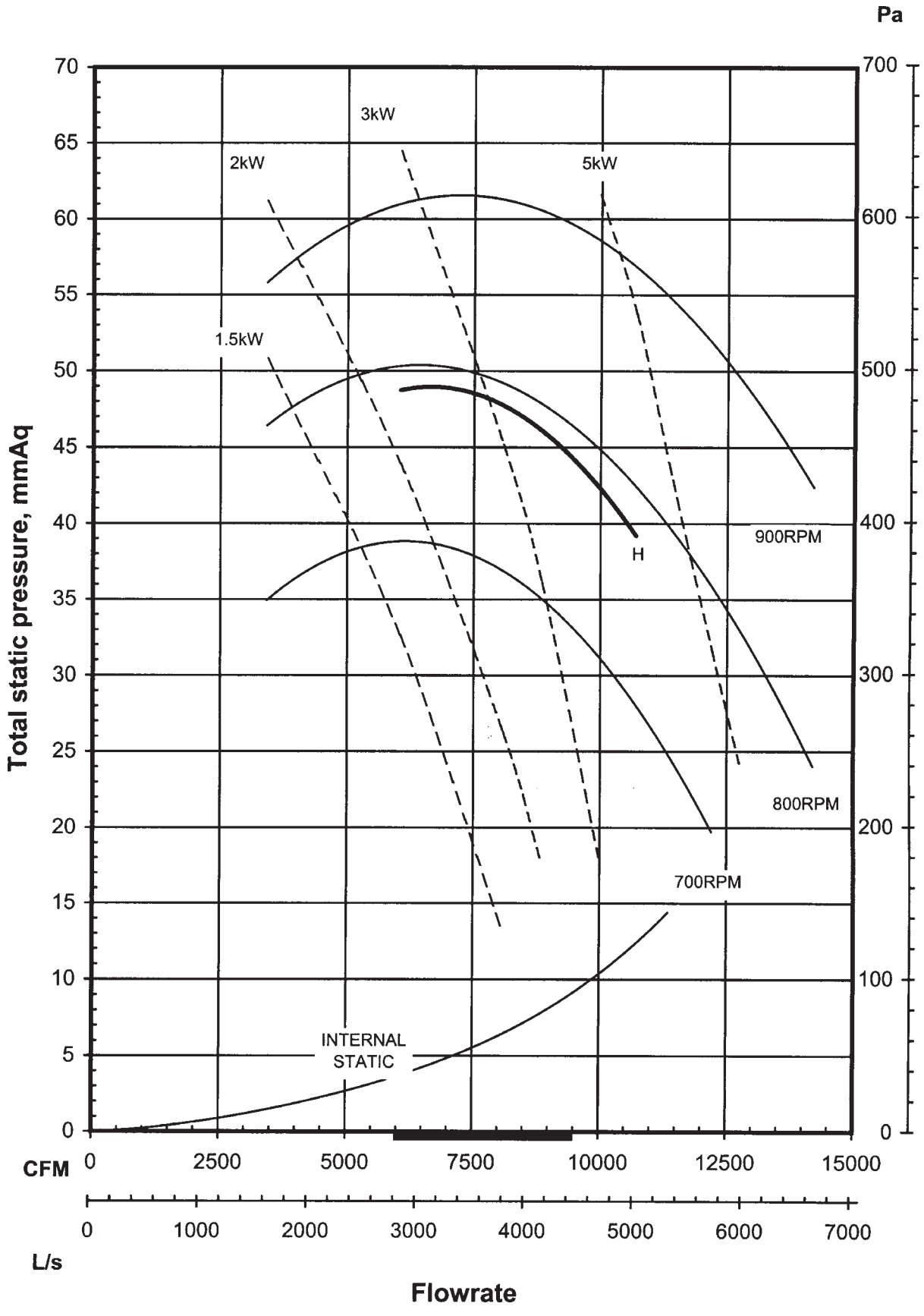
FAN PERFORMANCE CURVE
MDB150ER



FAN PERFORMANCE CURVE
MDB200ER



FAN PERFORMANCE CURVE
MDB250ER



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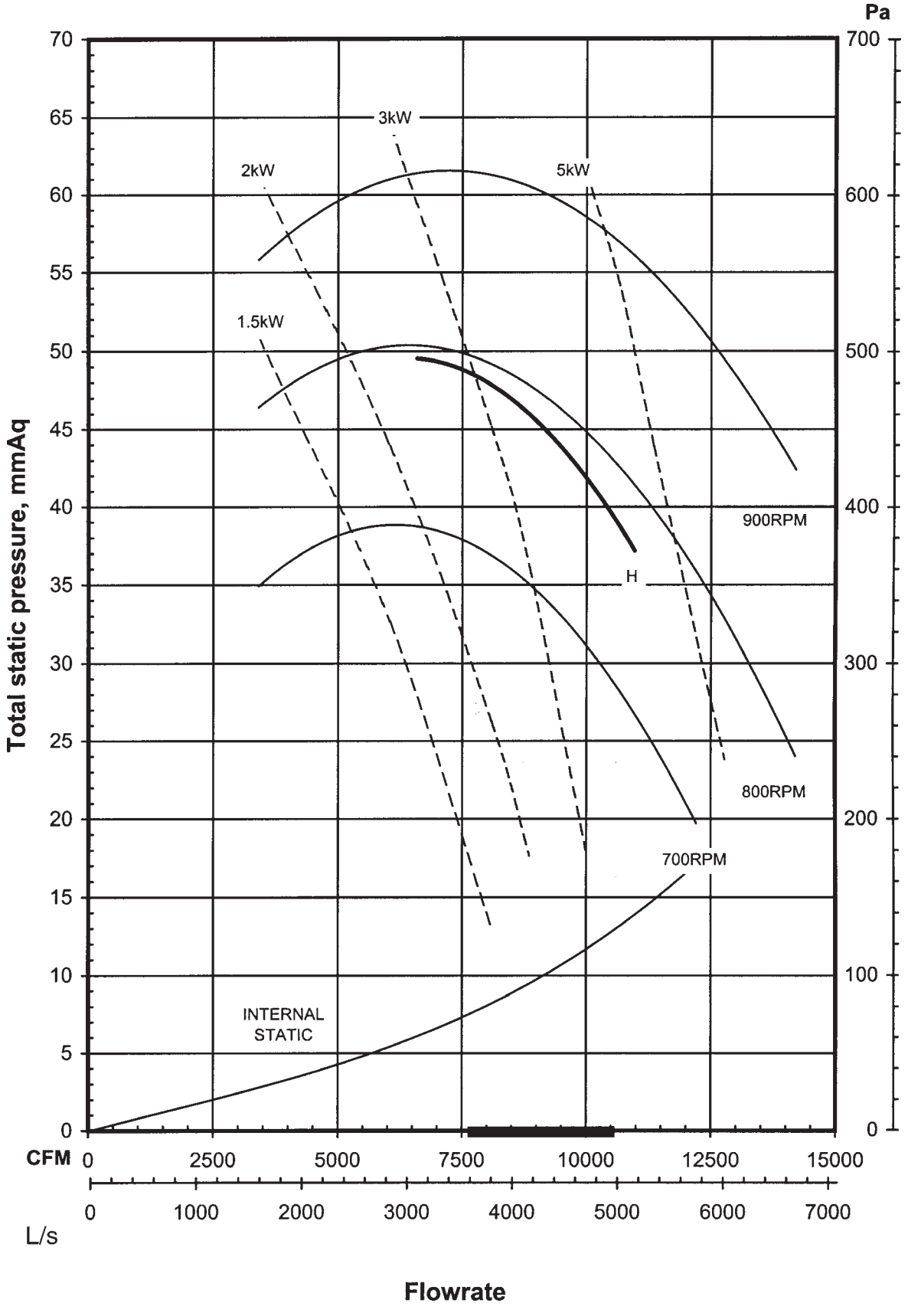
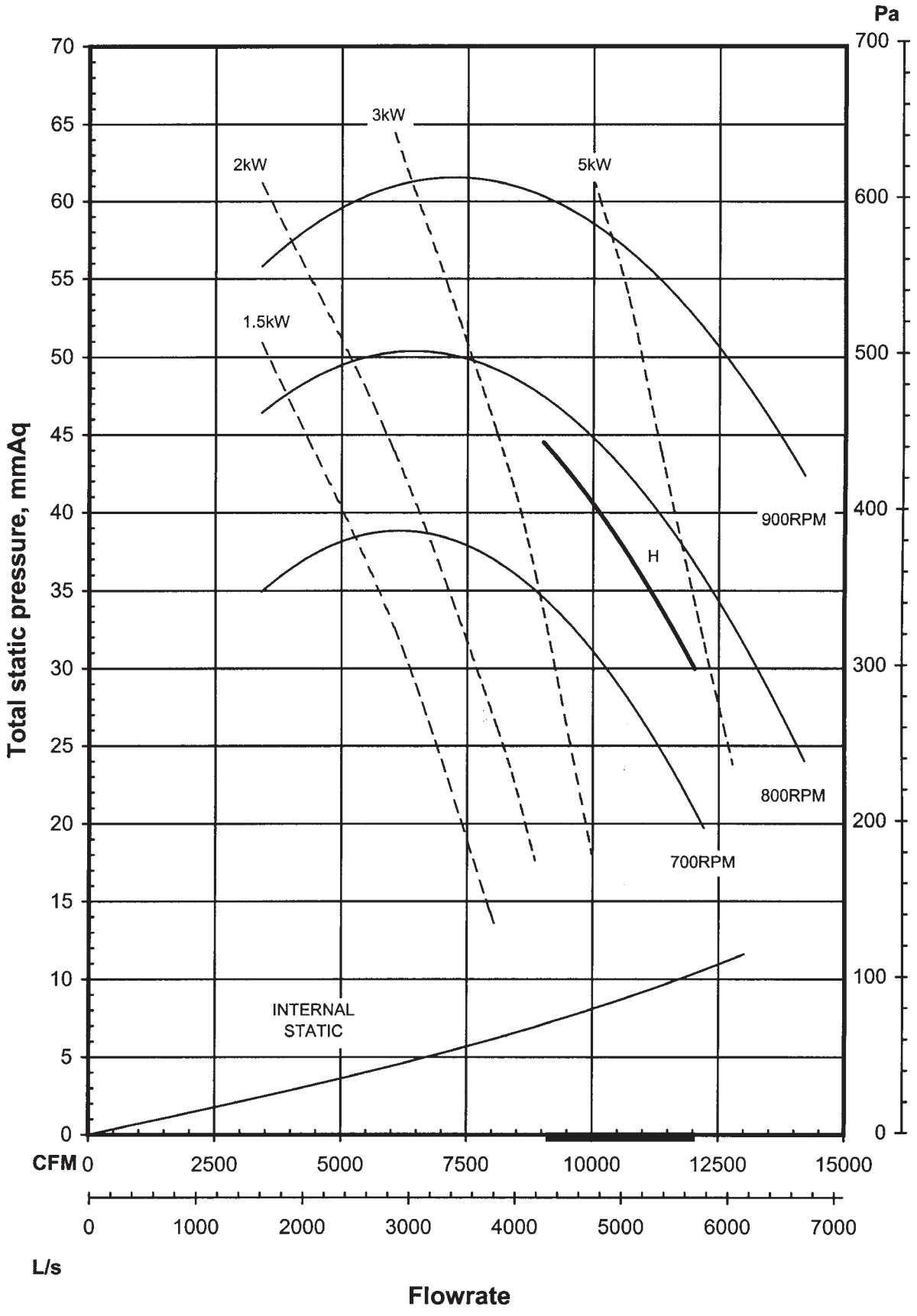
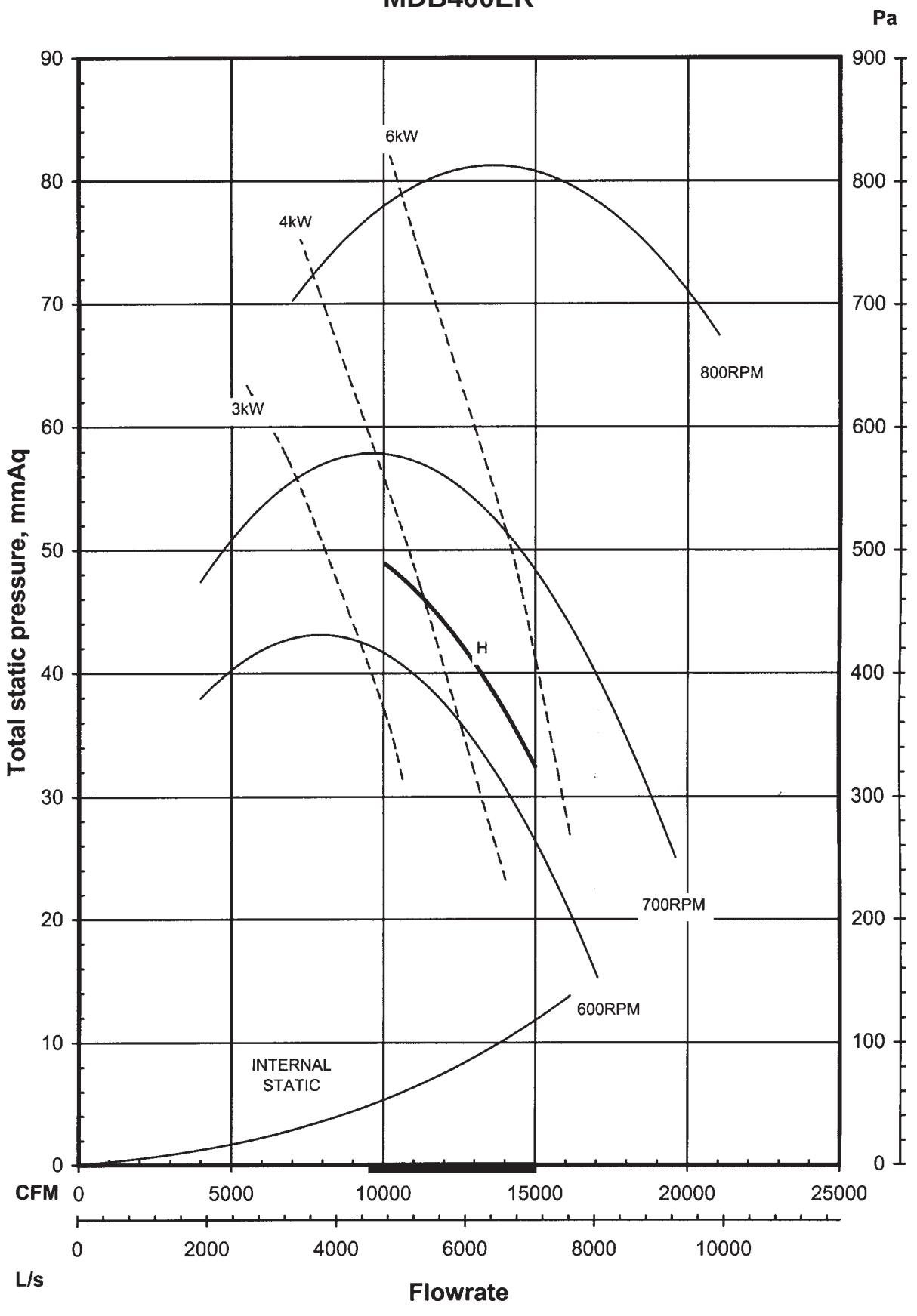
MDB300ER



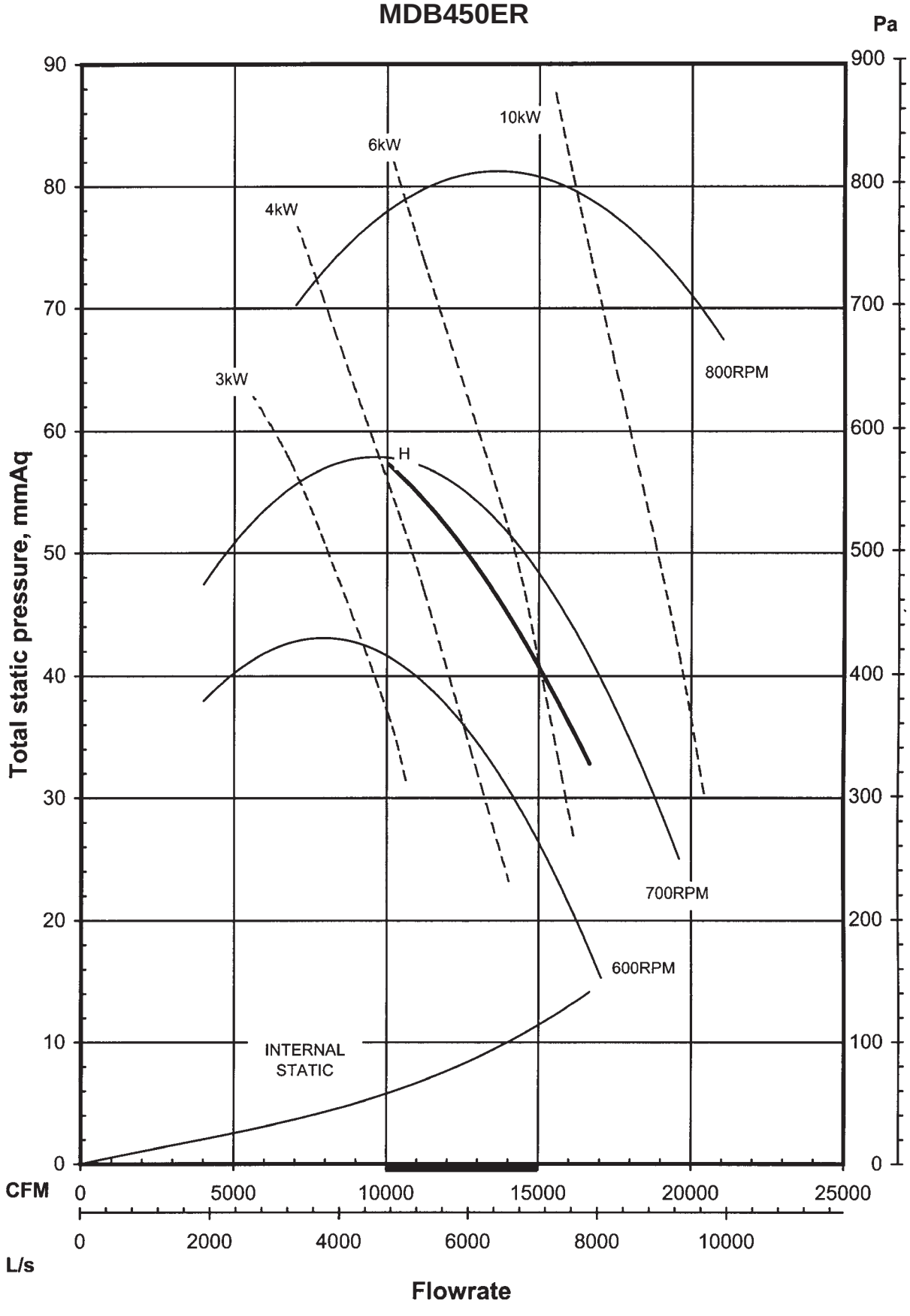
FAN PERFORMANCE CURVE
MDB350ER



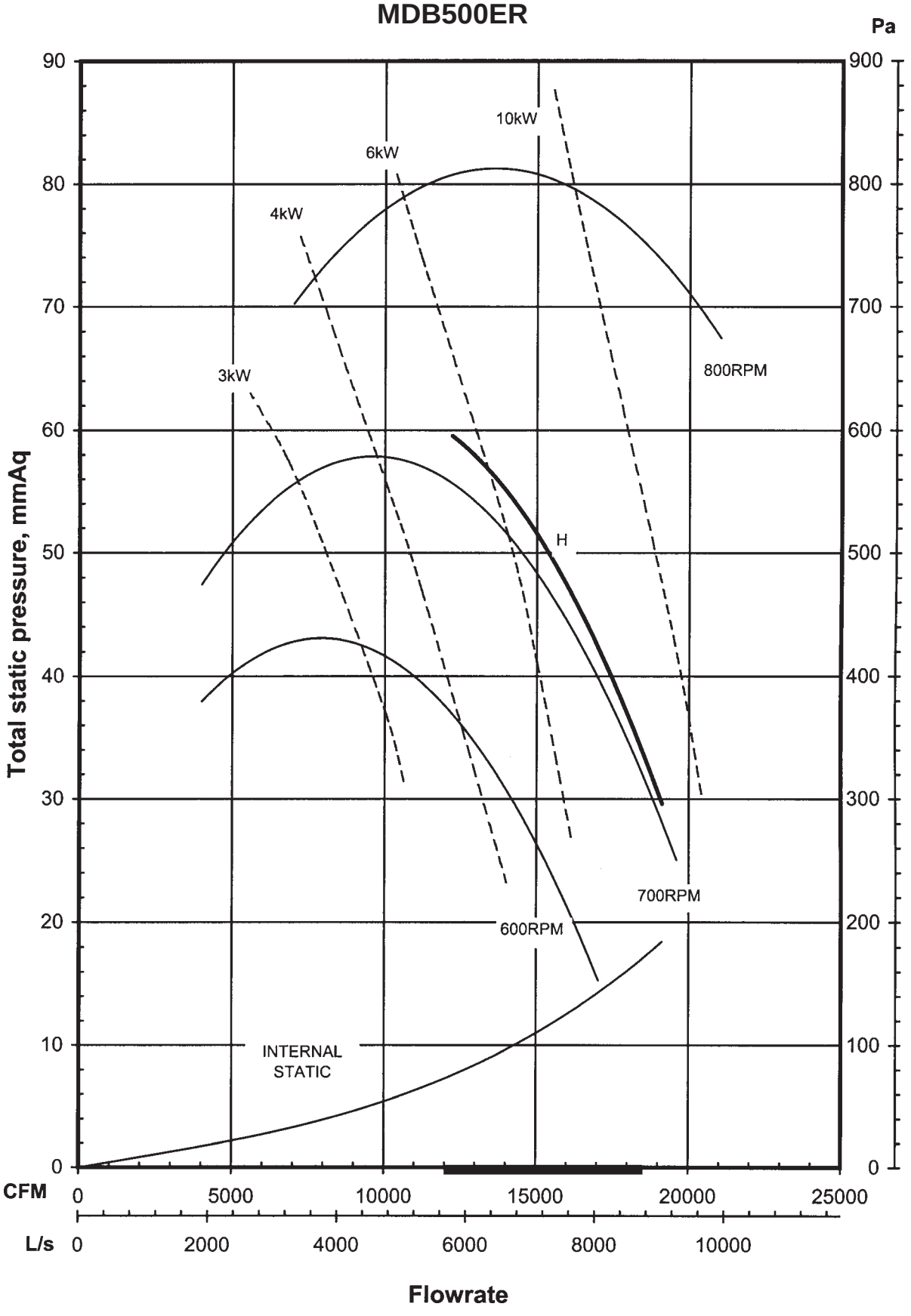
FAN PERFORMANCE CURVE
MDB400ER



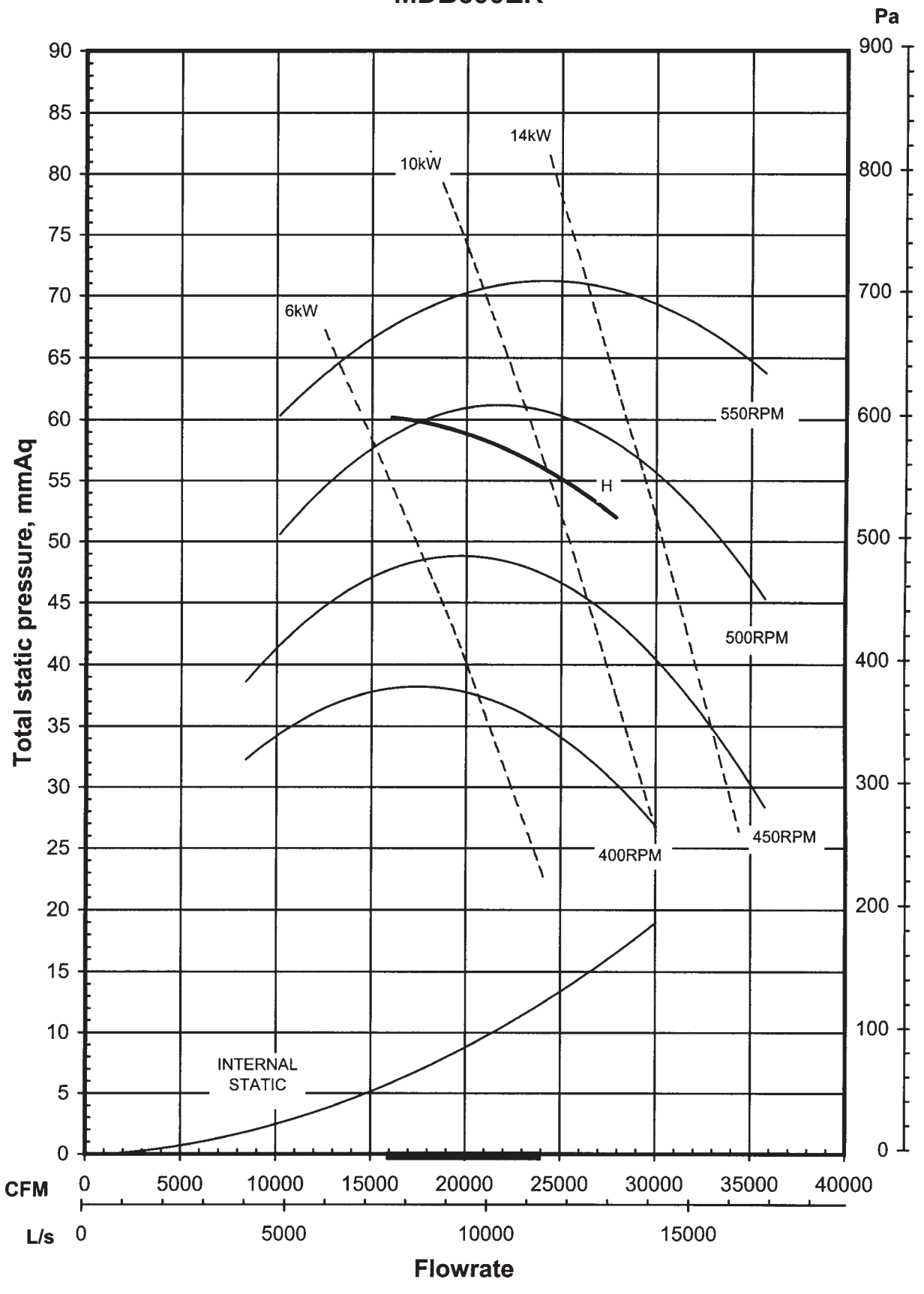
FAN PERFORMANCE CURVE
MDB450ER



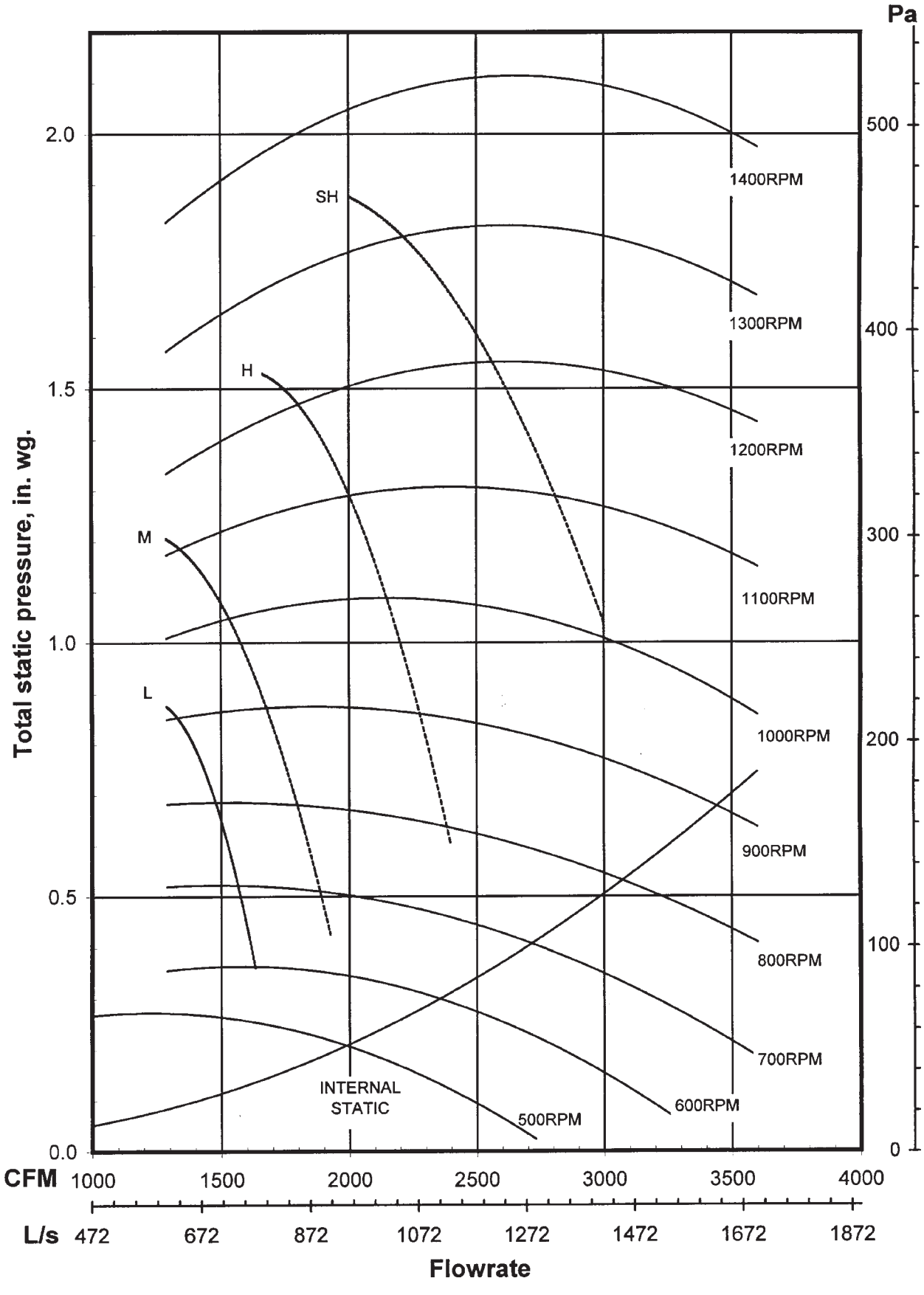
FAN PERFORMANCE CURVE
MDB500ER



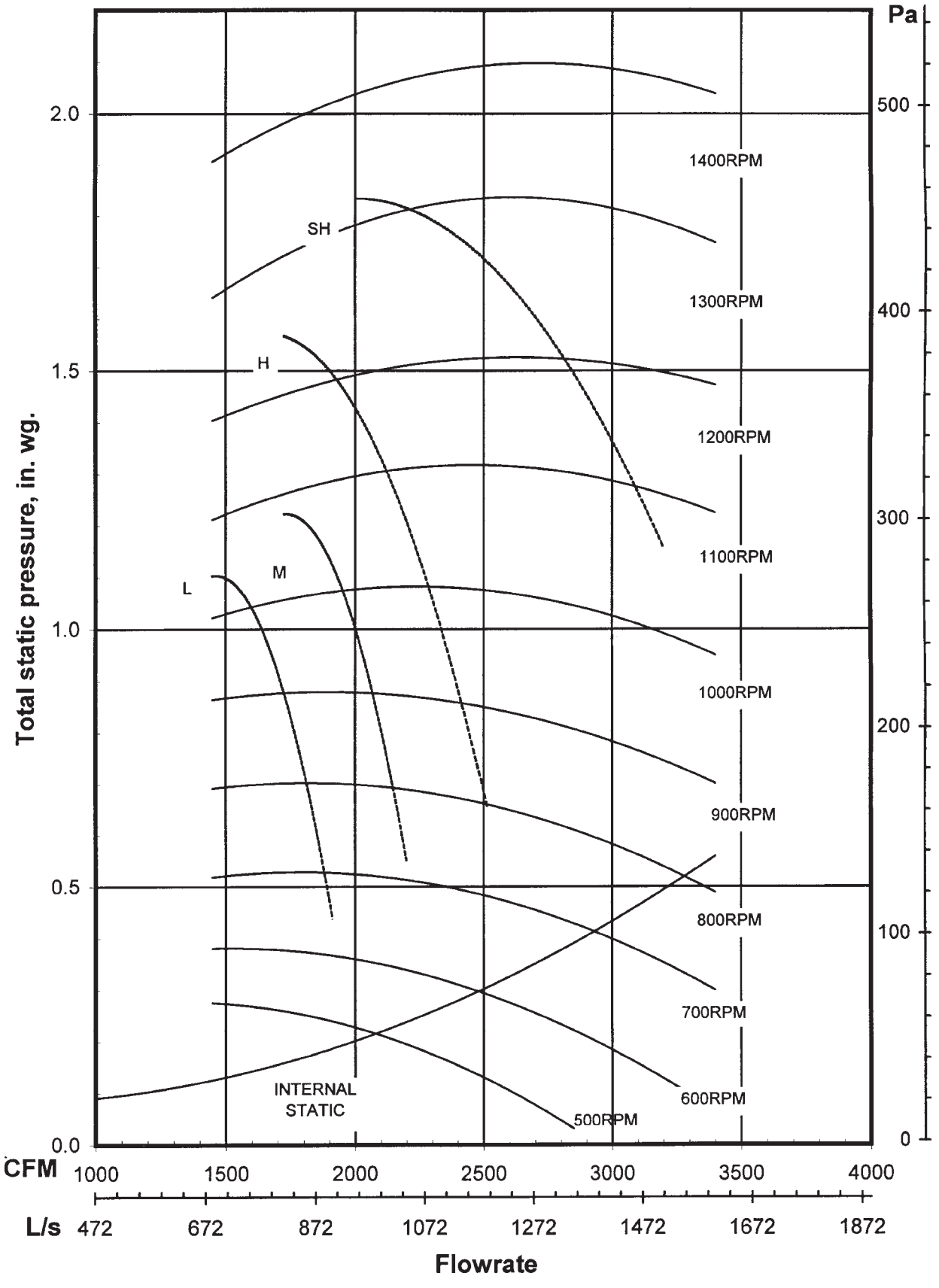
FAN PERFORMANCE CURVE
MDB600ER



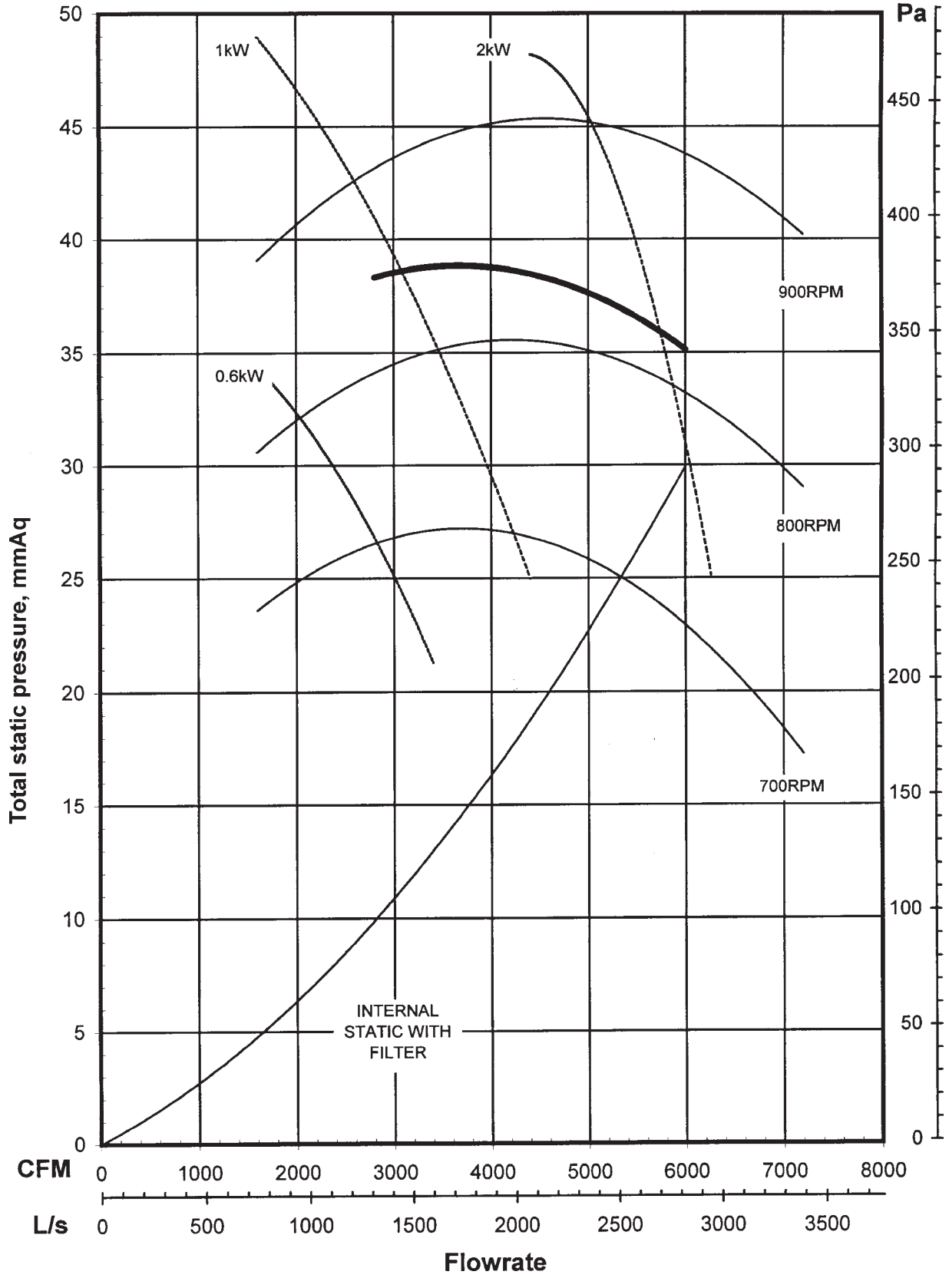
FAN PERFORMANCE CURVE
MDB 075ER VERY HIGH STATIC



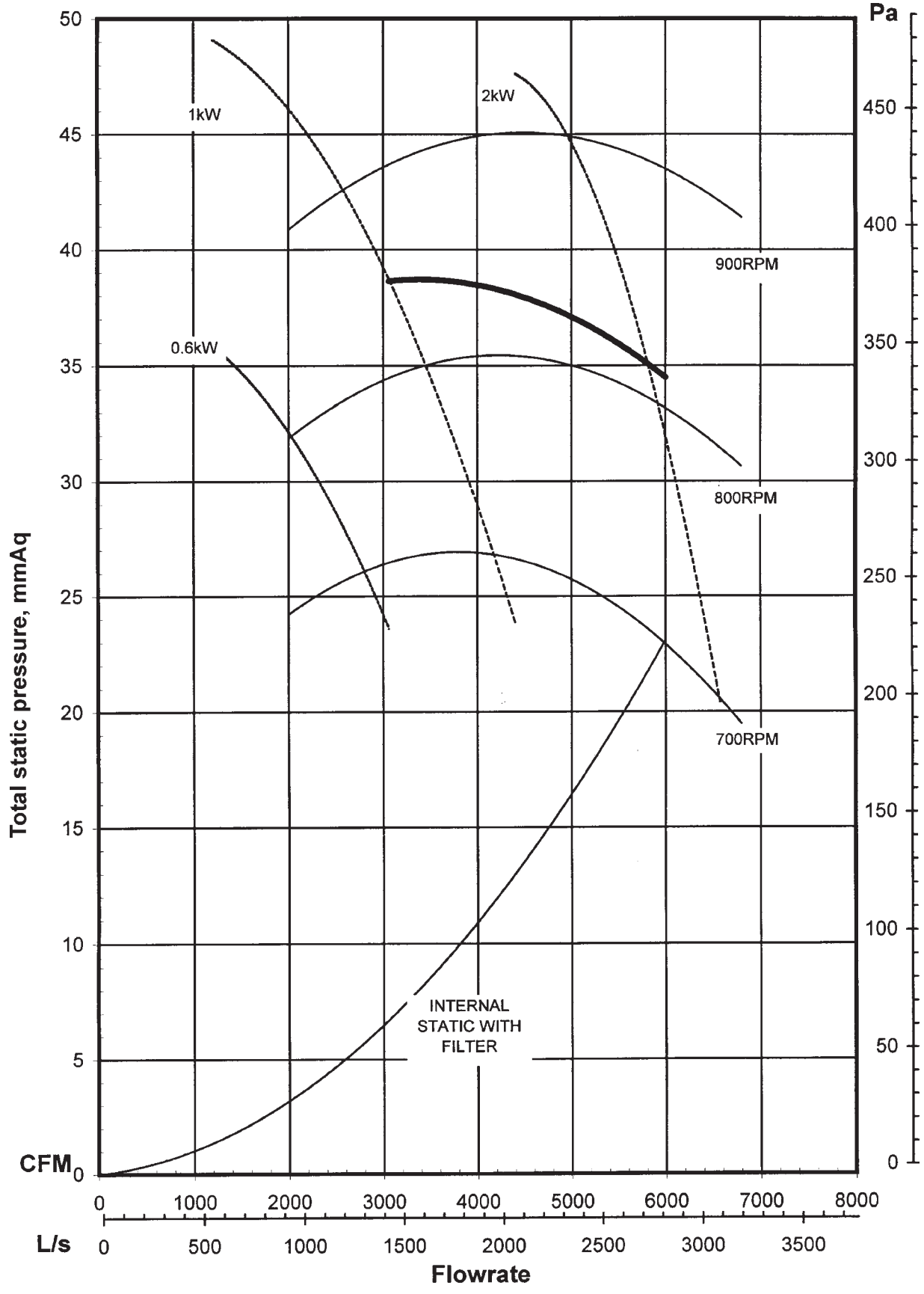
FAN PERFORMANCE CURVE
MDB 100ER VERY HIGH STATIC



FAN PERFORMANCE CURVE
MDB 125ER VERY HIGH STATIC



FAN PERFORMANCE CURVE
MDB 150ER VERY HIGH STATIC



GENERAL DATA - HEATPUMP (R407C)

MODEL		INDOOR UNIT			MDB075ER	MDB100ER
		OUTDOOR UNIT			M4MC075ER	M4MC100ER
NOMINAL COOLING CAPACITY				Btu/h	73,000	91,000
				W	21,400	26,670
NOMINAL HEATING CAPACITY				Btu/h	81,000	109,000
				W	23,740	31,950
NOMINAL TOTAL INPUT POWER (COOLING)				W	8,024	10,610
NOMINAL TOTAL INPUT POWER (HEATING)				W	8,224	10,610
NOMINAL RUNNING CURRENT (COOLING)				A	15.2	18.6
NOMINAL RUNNING CURRENT (HEATING)				A	15.2	19.1
EER (COOLING)				W/W	2.75	2.91
COP (HEATING)				W/W	2.98	3.32
POWER SOURCE				V/Ph/Hz	380~415 / 3 / 50	
REFRIGERANT TYPE					R407C	
REFRIGERANT CONTROL					TXV - INDOOR (COOLING) & OUTDOOR (HEATING)	
INDOOR UNIT	AIR FLOW	HIGH		l/s / CFM	1,062 / 2,250	1,416 / 3000
		MEDIUM		l/s / CFM	972 / 2,060	1,322 / 2800
		LOW		l/s / CFM	732 / 1,550	1,227 / 2600
	EXTERNAL STATIC PRESSURE	HIGH		Pa/in.wg	106 / 0.4	211 / 21.5
		MEDIUM		Pa/in.wg	93 / 0.4	189 / 19.3
		LOW		Pa/in.wg	65 / 0.3	161 / 16.4
	SOUND PRESSURE (H/M/L)			dBA	56 / 54 / 52	57 / 55 / 53
	UNIT DIMENSION	HEIGHT		mm/in	507 / 20.0	
		WIDTH		mm/in	1,507 / 59.3	1,917 / 75.5
		DEPTH		mm/in	904 / 35.6	
	PACKING DIMENSION	HEIGHT		mm/in	689 / 27.1	
		WIDTH		mm/in	1,607 / 63.3	2,017 / 79.4
		DEPTH		mm/in	1,004 / 39.5	
	UNIT WEIGHT			kg/lb	95 / 209	120 / 264
	CONDENSATE DRAIN SIZE			mm/in	25.4 / 1	
OUTDOOR UNIT	AIR FLOW			l/s / CFM	3,304 / 7,000	
	SOUND PRESSURE			dBA	64	
	UNIT DIMENSION	HEIGHT		mm/in	1,041 / 41.0	
		WIDTH		mm/in	981 / 38.6	
		DEPTH		mm/in	981 / 38.6	
	PACKING DIMENSION	HEIGHT		mm/in	1,224 / 48.2	
		WIDTH		mm/in	1,175 / 46.3	
		DEPTH		mm/in	1,150 / 45.3	
	UNIT WEIGHT			kg/lb	170 / 374	184 / 405
	PIPE CONNECTION	TYPE			BRAZED	
		SIZE	LIQUID	mm/in	12.7 / 1/2	15.9 / 5/8
			GAS	mm/in	25.4 / 1	28.6 / 1-1/8
REFRIGERANT CHARGE				kg/lb	6.5 / 14.3	9.5 / 20.9

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 13253.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD.
MICROPHONE POSITION :
a) INDOOR UNIT : 1.4m BELOW THE UNIT (FREE RETURN AND THE DISCHARGE AIR WAS DUCTED TO ADJACENT ROOM).
b) OUTDOOR UNIT : LOGARITHMIC MEAN OF MEASUREMENT AT 1m AWAY FROM EVERY SIDE OF THE UNIT AND 1m ABOVE THE FLOOR LEVEL.
5) EFFECTIVE POWER INPUT IS USED IN RATED EER/COP CALCULATION, ACCORDING TO ISO STANDARD : ISO13253

GENERAL DATA - HEATPUMP (R407C)

MODEL	**INDOOR UNIT**				**MDB125ER**
	OUTDOOR UNIT				**M4MC125ER**
NOMINAL COOLING CAPACITY				**Btu/h**	108,000
				W	31,650
NOMINAL HEATING CAPACITY				**Btu/h**	124,000
				W	36,340
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	12,100
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	11,100
NOMINAL RUNNING CURRENT (COOLING)				**A**	21.6
NOMINAL RUNNING CURRENT (HEATING)				**A**	20.3
EER (COOLING)				**W/W**	2.82
COP (HEATING)				**W/W**	3.55
POWER SOURCE				**V/Ph/Hz**	380~415 / 3 / 50
REFRIGERANT TYPE					R407C
REFRIGERANT CONTROL					TXV - INDOOR (COOLING) & OUTDOOR (HEATING)
INDOOR UNIT	**AIR FLOW**			**l/s / CFM**	1,770 / 3,750
	EXTERNAL STATIC PRESSURE			**Pa/in.wg**	169 / 0.7
	SOUND PRESSURE (H/M/L)			**dBA**	58
	UNIT DIMENSION	**HEIGHT**		**mm/in**	710 / 28.0
		WIDTH		**mm/in**	1,794 / 70.6
		DEPTH		**mm/in**	1,009 / 39.7
	PACKING DIMENSION	**HEIGHT**		**mm/in**	892 / 35.1
		WIDTH		**mm/in**	1,894 / 74.6
		DEPTH		**mm/in**	1,110 / 43.7
	UNIT WEIGHT			**kg/lb**	155 / 341
	CONDENSATE DRAIN SIZE			**mm/in**	25.4 / 1
OUTDOOR UNIT	**AIR FLOW**			**l/s / CFM**	4,720 / 10,000
	SOUND PRESSURE			**dBA**	66
	UNIT DIMENSION	**HEIGHT**		**mm/in**	1,040 / 40.9
		WIDTH		**mm/in**	1,083 / 42.6
		DEPTH		**mm/in**	1,083 / 42.6
	PACKING DIMENSION	**HEIGHT**		**mm/in**	1,224 / 48.2
		WIDTH		**mm/in**	1,277 / 50.3
		DEPTH		**mm/in**	1,252 / 49.3
	UNIT WEIGHT			**kg/lb**	197 / 434
	PIPE CONNECTION	**TYPE**			BRAZED
		SIZE	**LIQUID**	**mm/in**	15.9 / 5/8
			GAS	**mm/in**	34.9 / 1-3/8
REFRIGERANT CHARGE				**kg/lb**	10.1 / 22.3

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 13253.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD.
MICROPHONE POSITION :
a) INDOOR UNIT : 1.4m BELOW THE UNIT (FREE RETURN AND THE DISCHARGE AIR WAS DUCTED TO ADJACENT ROOM).
b) OUTDOOR UNIT : LOGARITHMIC MEAN OF MEASUREMENT AT 1m AWAY FROM EVERY SIDE OF THE UNIT AND 1m ABOVE THE FLOOR LEVEL.
5) EFFECTIVE POWER INPUT IS USED IN RATED EER/COP CALCULATION, ACCORDING TO ISO STANDARD : ISO13253

GENERAL DATA - HEATPUMP (R407C)

MODEL					INDOOR UNIT	MDB150ER1	MDB150ER2
					OUTDOOR UNIT	M4MC150ER	M4MC075ER x 2
NOMINAL COOLING CAPACITY					Btu/h	145,000	146,000
					W	42,500	42,790
NOMINAL HEATING CAPACITY					Btu/h	150,000	162,000
					W	43,960	47,480
NOMINAL TOTAL INPUT POWER (COOLING)					W	16,239	16,280
NOMINAL TOTAL INPUT POWER (HEATING)					W	14,060	16,680
NOMINAL RUNNING CURRENT (COOLING)					A	28.4	31.1
NOMINAL RUNNING CURRENT (HEATING)					A	25.8	31.1
EER (COOLING)					W/W	2.84	2.85
COP (HEATING)					W/W	3.43	3.08
POWER SOURCE					V/Ph/Hz	380~415 / 3 / 50	
REFRIGERANT TYPE						R407C	
REFRIGERANT CONTROL						TXV - INDOOR (COOLING) & OUTDOOR (HEATING)	
INDOOR UNIT	AIR FLOW				l/s / CFM	2,124 / 4,500	
	EXTERNAL STATIC PRESSURE				Pa/in.wg	177 / 0.7	
	SOUND PRESSURE (H/M/L)				dBA	59	
	UNIT DIMENSION	HEIGHT			mm/in	710 / 28.0	
		WIDTH			mm/in	2,073 / 81.6	
		DEPTH			mm/in	1,009 / 39.7	
	PACKING DIMENSION	HEIGHT			mm/in	892 / 35.1	
		WIDTH			mm/in	2,214 / 87.2	
		DEPTH			mm/in	1,110 / 43.7	
	UNIT WEIGHT				kg/lb	175 / 386	
	CONDENSATE DRAIN SIZE				mm/in	25.4 / 1	
OUTDOOR UNIT	AIR FLOW				l/s / CFM	4,720 / 10,000	3,304 / 7,000
	SOUND PRESSURE				dBA	67	64
	UNIT DIMENSION	HEIGHT			mm/in	1,142 / 44.9	1,041 / 41.0
		WIDTH			mm/in	1,083 / 42.6	981 / 38.6
		DEPTH			mm/in	1,083 / 42.6	981 / 38.6
	PACKING DIMENSION	HEIGHT			mm/in	1,326 / 52.2	1,224 / 48.2
		WIDTH			mm/in	1,277 / 50.3	1,175 / 46.3
		DEPTH			mm/in	1,252 / 49.3	1,150 / 45.3
	UNIT WEIGHT				kg/lb	268 / 591	170 / 374
	PIPE CONNECTION	TYPE				BRAZED	
		SIZE	LIQUID		mm/in	15.9 / 5/8	12.7 / 1/2
			GAS		mm/in	34.9 / 1-3/8	25.4 / 1
REFRIGERANT CHARGE					kg/lb	9.0 / 19.8	6.5 x 2 / 14.3 x 2

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 13253.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD.
MICROPHONE POSITION :
a) INDOOR UNIT : 1.4m BELOW THE UNIT (FREE RETURN AND THE DISCHARGE AIR WAS DUCTED TO ADJACENT ROOM).
b) OUTDOOR UNIT : LOGARITHMIC MEAN OF MEASUREMENT AT 1m AWAY FROM EVERY SIDE OF THE UNIT AND 1m ABOVE THE FLOOR LEVEL.
5) EFFECTIVE POWER INPUT IS USED IN RATED EER/COP CALCULATION, ACCORDING TO ISO STANDARD : ISO13253

GENERAL DATA - HEATPUMP (R407C)

MODEL					INDOOR UNIT	MDB200ER2	MDB250ER2
					OUTDOOR UNIT	M4MC100ER x 2	M4MC125ER x 2
NOMINAL COOLING CAPACITY					Btu/h	182,000	216,000
					W	53,340	63,310
NOMINAL HEATING CAPACITY					Btu/h	218,000	248,000
					W	63,890	72,680
NOMINAL TOTAL INPUT POWER (COOLING)					W	21,030	24,730
NOMINAL TOTAL INPUT POWER (HEATING)					W	21,930	22,730
NOMINAL RUNNING CURRENT (COOLING)					A	39.2	43.7
NOMINAL RUNNING CURRENT (HEATING)					A	40.2	41.1
EER (COOLING)					W/W	2.75	2.82
COP (HEATING)					W/W	3.14	3.55
POWER SOURCE					V/Ph/Hz	380~415 / 3 / 50	
REFRIGERANT TYPE						R407C	
REFRIGERANT CONTROL						TXV - INDOOR (COOLING) & OUTDOOR (HEATING)	
INDOOR UNIT	AIR FLOW				l/s / CFM	3,021 / 6,400	3,775.6 / 8,000
	EXTERNAL STATIC PRESSURE				Pa/in.wg	177 / 0.7	412 / 1.7
	SOUND PRESSURE (H/M/L)				dBA	61	63
	UNIT DIMENSION	HEIGHT			mm/in	945 / 37.2	1,291 / 50.8
		WIDTH			mm/in	1,894 / 74.6	1,886 / 73.5
		DEPTH			mm/in	980 / 38.6	1,199 / 47.2
	PACKING DIMENSION	HEIGHT			mm/in	1,154 / 45.4	1,506 / 59.3
		WIDTH			mm/in	2,052 / 80.8	2,034 / 80.1
		DEPTH			mm/in	1,188 / 46.8	1,412 / 55.6
	UNIT WEIGHT				kg/lb	220 / 485	343 / 756
	CONDENSATE DRAIN SIZE				mm/in	25.4 / 1	
OUTDOOR UNIT	AIR FLOW				l/s / CFM	3,304 / 7,000	4,720 / 10,000
	SOUND PRESSURE				dBA	64	66
	UNIT DIMENSION	HEIGHT			mm/in	1,041 / 41.0	1,040 / 40.9
		WIDTH			mm/in	981 / 38.6	1,083 / 42.6
		DEPTH			mm/in	981 / 38.6	1,083 / 42.6
	PACKING DIMENSION	HEIGHT			mm/in	1,224 / 48.2	
		WIDTH			mm/in	1,175 / 46.3	1,277 / 50.3
		DEPTH			mm/in	1,150 / 45.3	1,252 / 49.3
	UNIT WEIGHT				kg/lb	184 / 405	197 / 434
	PIPE CONNECTION	TYPE				BRAZED	
		SIZE	LIQUID		mm/in	15.9 / 5/8	
			GAS		mm/in	28.6 / 1-1/8	34.9 / 1-3/8
REFRIGERANT CHARGE					kg/lb	9.5 x 2 / 20.9 x 2	10.1 x 2 / 22.3 x 2

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 13253.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD.
MICROPHONE POSITION :
a) INDOOR UNIT : 1.4m BELOW THE UNIT (FREE RETURN AND THE DISCHARGE AIR WAS DUCTED TO ADJACENT ROOM).
b) OUTDOOR UNIT : LOGARITHMIC MEAN OF MEASUREMENT AT 1m AWAY FROM EVERY SIDE OF THE UNIT AND 1m ABOVE THE FLOOR LEVEL.
5) EFFECTIVE POWER INPUT IS USED IN RATED EER/COP CALCULATION, ACCORDING TO ISO STANDARD : ISO13253

GENERAL DATA - HEATPUMP (R407C)

MODEL					MDB300ER2	MDB300ER3
	INDOOR UNIT				MDB300ER2	MDB300ER3
	OUTDOOR UNIT				M4MC150ER x 2	M4MC100ER x 3
NOMINAL COOLING CAPACITY				Btu/h	290,000	273,000
				W	84,990	90,010
NOMINAL HEATING CAPACITY				Btu/h	300,000	327,000
				W	87,920	95,840
NOMINAL TOTAL INPUT POWER (COOLING)				W	32,998	31,450
NOMINAL TOTAL INPUT POWER (HEATING)				W	28,640	32,800
NOMINAL RUNNING CURRENT (COOLING)				A	57.3	58.4
NOMINAL RUNNING CURRENT (HEATING)				A	52.0	59.9
EER (COOLING)				W/W	2.82	2.79
COP (HEATING)				W/W	3.40	3.20
POWER SOURCE				V/Ph/Hz	380~415 / 3 / 50	
REFRIGERANT TYPE					R407C	
REFRIGERANT CONTROL					TXV - INDOOR (COOLING) & OUTDOOR (HEATING)	
INDOOR UNIT	AIR FLOW			l/s / CFM	4,248 / 9,000	
	EXTERNAL STATIC PRESSURE			Pa/in.wg	353 / 1.4	
	SOUND PRESSURE (H/M/L)			dBA	66	
	UNIT DIMENSION	HEIGHT		mm/in	1,291 / 50.8	
		WIDTH		mm/in	1,866 / 73.5	
		DEPTH		mm/in	1,199 / 47.2	
	PACKING DIMENSION	HEIGHT		mm/in	1,506 / 59.3	
		WIDTH		mm/in	2,034 / 80.1	
		DEPTH		mm/in	1,412 / 55.6	
	UNIT WEIGHT			kg/lb	343 / 756	
	CONDENSATE DRAIN SIZE			mm/in	25.4 / 1	
OUTDOOR UNIT	AIR FLOW			l/s / CFM	4,720 / 10,000	3,304 / 7,000
	SOUND PRESSURE			dBA	67	64
	UNIT DIMENSION	HEIGHT		mm/in	1,142 / 44.9	1,041 / 41.0
		WIDTH		mm/in	1,083 / 42.6	981 / 38.6
		DEPTH		mm/in	1,083 / 42.6	981 / 38.6
	PACKING DIMENSION	HEIGHT		mm/in	1,326 / 52.2	1,224 / 48.2
		WIDTH		mm/in	1,277 / 50.3	1,175 / 46.3
		DEPTH		mm/in	1,252 / 49.3	1,150 / 45.3
	UNIT WEIGHT			kg/lb	268 / 591	184 / 405
	PIPE CONNECTION	TYPE			BRAZED	
		SIZE	LIQUID	mm/in	15.9 / 5/8	
			GAS	mm/in	34.9 / 1-3/8	28.6 / 1-1/8
REFRIGERANT CHARGE				kg/lb	9.0 x 2 / 19.8 x 2	9.5 x 3 / 20.5 x 3

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 13253.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD.
MICROPHONE POSITION :
a) INDOOR UNIT : 1.4m BELOW THE UNIT (FREE RETURN AND THE DISCHARGE AIR WAS DUCTED TO ADJACENT ROOM).
b) OUTDOOR UNIT : LOGARITHMIC MEAN OF MEASUREMENT AT 1m AWAY FROM EVERY SIDE OF THE UNIT AND 1m ABOVE THE FLOOR LEVEL.
5) EFFECTIVE POWER INPUT IS USED IN RATED EER/COP CALCULATION, ACCORDING TO ISO STANDARD : ISO13253

GENERAL DATA - HEATPUMP (R407C)

MODEL				INDOOR UNIT	MDB350ER3		MDB400ER4
				OUTDOOR UNIT	M4MC100ER	M4MC125ER x 2	M4MC100ER x 4
NOMINAL COOLING CAPACITY				Btu/h	307,000		364,000
				W	89,980		106,680
NOMINAL HEATING CAPACITY				Btu/h	357,000		436,000
				W	104,630		127,780
NOMINAL TOTAL INPUT POWER (COOLING)				W	35,020		41,435
NOMINAL TOTAL INPUT POWER (HEATING)				W	33,470		43,235
NOMINAL RUNNING CURRENT (COOLING)				A	62.9		77.1
NOMINAL RUNNING CURRENT (HEATING)				A	60.8		79.1
EER (COOLING)				W/W	2.84		2.83
COP (HEATING)				W/W	3.47		3.24
POWER SOURCE				V/Ph/Hz	380~415 / 3 / 50		
REFRIGERANT TYPE					R407C		
REFRIGERANT CONTROL					TXV - INDOOR (COOLING) & OUTDOOR (HEATING)		
INDOOR UNIT	AIR FLOW			l/s / CFM	4,955 / 10,500		5,663 / 12,000
	EXTERNAL STATIC PRESSURE			Pa/in.wg	289 / 1.2		353 / 1.4
	SOUND PRESSURE (H/M/L)			dBA	66		66
	UNIT DIMENSION	HEIGHT		mm/in	1,546 / 60.9		
		WIDTH		mm/in	2,122 / 83.5		2,274 / 89.5
		DEPTH		mm/in	1,199 / 47.2		1,466 / 57.7
	PACKING DIMENSION	HEIGHT		mm/in	1,766 / 69.5		
		WIDTH		mm/in	2,279 / 89.7		2,431 / 95.7
		DEPTH		mm/in	1,412 / 55.6		1,684 / 66.3
	UNIT WEIGHT			kg/lb	440 / 970		513 / 1,131
	CONDENSATE DRAIN SIZE			mm/in	25.4 / 1		
OUTDOOR UNIT	AIR FLOW			l/s / CFM	3,304 / 7,000	4,720 / 10,000	3,307 / 7,000
	SOUND PRESSURE			dBA	64	66	64
	UNIT DIMENSION	HEIGHT		mm/in	1,041 / 41.0	1,040 / 40.9	1,041 / 41.0
		WIDTH		mm/in	981 / 38.6	1,083 / 42.6	981 / 38.6
		DEPTH		mm/in	981 / 38.6	1,083 / 42.6	981 / 38.6
	PACKING DIMENSION	HEIGHT		mm/in	1,224 / 48.2		
		WIDTH		mm/in	1,175 / 46.3	1,277 / 50.3	1,175 / 46.3
		DEPTH		mm/in	1,150 / 45.3	1,252 / 49.3	1,150 / 45.3
	UNIT WEIGHT			kg/lb	184 / 405	197 / 434	184 / 405
	PIPE CONNECTION	TYPE			BRAZED		
		SIZE	LIQUID	mm/in	15.9 / 5/8		
			GAS	mm/in	28.6 / 1-1/8	34.9 / 1-3/8	28.6 / 1-1/8
REFRIGERANT CHARGE				kg/lb	9.5 / 20.9	10.1 x 2 / 22.3 x 2	9.5 x 4 / 20.9 x 4

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a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD.
MICROPHONE POSITION :
a) INDOOR UNIT : 1.4m BELOW THE UNIT (FREE RETURN AND THE DISCHARGE AIR WAS DUCTED TO ADJACENT ROOM).
b) OUTDOOR UNIT : LOGARITHMIC MEAN OF MEASUREMENT AT 1m AWAY FROM EVERY SIDE OF THE UNIT AND 1m ABOVE THE FLOOR LEVEL.
5) EFFECTIVE POWER INPUT IS USED IN RATED EER/COP CALCULATION, ACCORDING TO ISO STANDARD : ISO13253

GENERAL DATA - HEATPUMP (R407C)

MODEL					INDOOR UNIT	MDB450ER3	MDB500ER4
					OUTDOOR UNIT	M4MC150ER x 3	M4MC125ER x 4
NOMINAL COOLING CAPACITY					Btu/h	432,000	435,000
					W	126,610	127,490
NOMINAL HEATING CAPACITY					Btu/h	450,000	496,000
					W	131,890	145,370
NOMINAL TOTAL INPUT POWER (COOLING)					W	50,817	50,755
NOMINAL TOTAL INPUT POWER (HEATING)					W	44,280	46,755
NOMINAL RUNNING CURRENT (COOLING)					A	87.9	89.5
NOMINAL RUNNING CURRENT (HEATING)					A	79.9	84.3
EER (COOLING)					W/W	2.78	2.84
COP (HEATING)					W/W	3.38	3.56
POWER SOURCE					V/Ph/Hz	380~415 / 3 / 50	
REFRIGERANT TYPE						R407C	
REFRIGERANT CONTROL						TXV - INDOOR (COOLING) & OUTDOOR (HEATING)	
INDOOR UNIT	AIR FLOW				l/s / CFM	6,371 / 13,500	7,079 / 15,000
	EXTERNAL STATIC PRESSURE				Pa/in.wg	373 / 1.5	402 / 1.6
	SOUND PRESSURE (H/M/L)				dBA	68	
	UNIT DIMENSION	HEIGHT			mm/in	1,546 / 60.9	
		WIDTH			mm/in	2,274 / 89.5	
		DEPTH			mm/in	1,466 / 57.7	
	PACKING DIMENSION	HEIGHT			mm/in	1,766 / 69.5	
		WIDTH			mm/in	2,431 / 95.7	
		DEPTH			mm/in	1,684 / 66.3	
	UNIT WEIGHT				kg/lb	564 / 1,243	606 / 1,336
	CONDENSATE DRAIN SIZE				mm/in	25.4 / 1	
OUTDOOR UNIT	AIR FLOW				l/s / CFM	4,720 / 10,000	
	SOUND PRESSURE				dBA	67	66
	UNIT DIMENSION	HEIGHT			mm/in	1,142 / 44.9	1,040 / 40.9
		WIDTH			mm/in	1,083 / 42.6	1,083 / 42.6
		DEPTH			mm/in	1,083 / 42.6	1,083 / 42.6
	PACKING DIMENSION	HEIGHT			mm/in	1,326 / 52.2	1,224 / 48.2
		WIDTH			mm/in	1,277 / 50.3	
		DEPTH			mm/in	1,252 / 49.3	
	UNIT WEIGHT				kg/lb	268 / 591	197 / 434
	PIPE CONNECTION	TYPE				BRAZED	
		SIZE	LIQUID		mm/in	15.9 / 5/8	
			GAS		mm/in	34.9 / 1-3/8	
REFRIGERANT CHARGE					kg/lb	9.0 x 3 / 19.8 x 3	10.1 x 4 / 22.3 x 4

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD.
MICROPHONE POSITION :
a) INDOOR UNIT : 1.4m BELOW THE UNIT (FREE RETURN AND THE DISCHARGE AIR WAS DUCTED TO ADJACENT ROOM).
b) OUTDOOR UNIT : LOGARITHMIC MEAN OF MEASUREMENT AT 1m AWAY FROM EVERY SIDE OF THE UNIT AND 1m ABOVE THE FLOOR LEVEL.
5) EFFECTIVE POWER INPUT IS USED IN RATED EER/COP CALCULATION, ACCORDING TO ISO STANDARD : ISO13253

GENERAL DATA - HEATPUMP (R407C)

MODEL		**INDOOR UNIT**			**MDB600ER4**
		OUTDOOR UNIT			**M4MC150ER x 4**
NOMINAL COOLING CAPACITY				**Btu/h**	580,000
				W	169,990
NOMINAL HEATING CAPACITY				**Btu/h**	600,000
				W	175,850
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	70,896
NOMINAL TOTAL INPUT POWER (HEATING)				**W**	62,180
NOMINAL RUNNING CURRENT (COOLING)				**A**	121.9
NOMINAL RUNNING CURRENT (HEATING)				**A**	111.3
EER (COOLING)				**W/W**	2.72
COP (HEATING)				**W/W**	3.27
POWER SOURCE				**V/Ph/Hz**	380~415 / 3 / 50
REFRIGERANT TYPE					R407C
REFRIGERANT CONTROL					TXV - INDOOR (COOLING) & OUTDOOR (HEATING)
INDOOR UNIT	**AIR FLOW**			**l/s / CFM**	8,495 / 18,000
	EXTERNAL STATIC PRESSURE			**Pa/in.wg**	520 / 2.1
	SOUND PRESSURE (H/M/L)			**dBA**	70
	UNIT DIMENSION	**HEIGHT**		**mm/in**	1,918 / 75.5
		WIDTH		**mm/in**	2,274 / 89.5
		DEPTH		**mm/in**	1,965 / 77.4
	PACKING DIMENSION	**HEIGHT**		**mm/in**	1,977 / 77.8
		WIDTH		**mm/in**	2,174 / 85.6
		DEPTH		**mm/in**	1,905 / 75.0
	UNIT WEIGHT			**kg/lb**	991 / 2,185
	CONDENSATE DRAIN SIZE			**mm/in**	25.4 / 1
OUTDOOR UNIT	**AIR FLOW**			**l/s / CFM**	4,720 / 10,000
	SOUND PRESSURE			**dBA**	67
	UNIT DIMENSION	**HEIGHT**		**mm/in**	1,142 / 44.9
		WIDTH		**mm/in**	1,083 / 42.6
		DEPTH		**mm/in**	1,083 / 42.6
	PACKING DIMENSION	**HEIGHT**		**mm/in**	1,326 / 52.2
		WIDTH		**mm/in**	1,277 / 50.3
		DEPTH		**mm/in**	1,252 / 49.3
	UNIT WEIGHT			**kg/lb**	268 / 591
	PIPE CONNECTION	**TYPE**			BRAZED
		SIZE	**LIQUID**	**mm/in**	15.9 / 5/8
			GAS	**mm/in**	34.9 / 1-3/8
REFRIGERANT CHARGE				**kg/lb**	9.0 x 4 / 19.8 x 4

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 13253.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD.
MICROPHONE POSITION :
a) INDOOR UNIT : 1.4m BELOW THE UNIT (FREE RETURN AND THE DISCHARGE AIR WAS DUCTED TO ADJACENT ROOM).
b) OUTDOOR UNIT : LOGARITHMIC MEAN OF MEASUREMENT AT 1m AWAY FROM EVERY SIDE OF THE UNIT AND 1m ABOVE THE FLOOR LEVEL.
5) EFFECTIVE POWER INPUT IS USED IN RATED EER/COP CALCULATION, ACCORDING TO ISO STANDARD : ISO13253

COMPONENTS DATA - HEATPUMP (R407C)

MODEL	**INDOOR UNIT**			**MDB075ER**	**MDB100ER**
	OUTDOOR UNIT			**M4MC075ER**	**M4MC100ER**
INDOOR FAN	**TYPE**			CENTRIFUGAL	
	Q'TY			2	
	MATERIAL			ZINC COATED STEEL	
	DRIVE			DIRECT	
	DIAMETER		**mm/in**	282.7 / 11.1	
	LENGTH		**mm/in**	203.2 / 8.0	
INDOOR FAN MOTOR	**TYPE**			INDUCTION	
	Q'TY			1	
	INDEX OF PROTECTION (IP)			IP20	
OUTDOOR FAN	**TYPE**			PROPELLER	
	Q'TY			1	
	MATERIAL			ALUMINIUM	
	DRIVE			DIRECT	
	DIAMETER		**mm/in**	812.8 / 32.0	
OUTDOOR FAN MOTOR	**TYPE**			INDUCTION	
	Q'TY			1	
	INDEX OF PROTECTION (IP)			IP54	
COMPRESSOR	**TYPE**			SCROLL	
	OIL TYPE			POE	
	OIL AMOUNT		**cm^3 / fl.oz.**	2513.8 / 85	3253.1 / 110
INDOOR COIL	**TUBE**	**MATERIAL**		SEAMLESS COPPER	
		DIAMETER	**mm/in**	9.52 / 3/8	
		THICKNESS	**mm/in**	0.35 / 0.013	
	FIN	**MATERIAL**		ALUMINIUM	
		THICKNESS	**mm/in**	0.127 / 0.005	
		FACE AREA	**m^2/ft^2**	0.53 / 5.73	0.72 / 7.75
		ROW		3	
		FIN PER INCH		14	
OUTDOOR COIL	**TUBE**	**MATERIAL**		INNER GROOVE SEAMLESS COPPER	
		DIAMETER	**mm/in**	9.52 / 3./8	
		THICKNESS	**mm/in**	0.35 / 0.013	
	FIN	**MATERIAL**		ALUMINIUM HYDROPHILIC	
		THICKNESS	**mm/in**	0.127 / 0.005	
		FACE AREA	**m^2/ft^2**	2.29 / 24.65	
		ROW		1	2
		FIN PER INCH		20	16
FILTRATION	**TYPE**			AAF R15	
	QUANTITY		**pc**	3	
	DIMENSION (L x H x D)		**mm/in**	399.0 x 385.0 x 50.8 / 15.7 x 15.2 x 2.0	536.0 x 385.0 x 50.8 / 21.1 x 15.2 x 2.0
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 (R407C)

MODEL	**INDOOR UNIT**			**MDB125ER**
	OUTDOOR UNIT			**M4MC125ER**
INDOOR FAN	**TYPE**			CENTRIFUGAL
	Q'TY			1
	MATERIAL			ZINC COATED STEEL
	DRIVE			BELT DRIVEN
	DIAMETER		**mm/in**	395.0 / 15.6
	LENGTH		**mm/in**	381.0 / 15.0
INDOOR FAN MOTOR	**TYPE**			INDUCTION
	Q'TY			1
	INDEX OF PROTECTION (IP)			IP54
OUTDOOR FAN	**TYPE**			PROPELLER
	Q'TY			1
	MATERIAL			ALUMINIUM
	DRIVE			DIRECT
	DIAMETER		**mm/in**	914.4 / 36.0
OUTDOOR FAN MOTOR	**TYPE**			INDUCTION
	Q'TY			1
	INDEX OF PROTECTION (IP)			IP54
COMPRESSOR	**TYPE**			SCROLL
	OIL TYPE			POE
	OIL AMOUNT		**cm^3 / fl.oz.**	3253.1 / 110
INDOOR COIL	**TUBE**	**MATERIAL**		SEAMLESS COPPER
		DIAMETER	**mm/in**	9.52 / 3/8
		THICKNESS	**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**		ALUMINIUM
		THICKNESS	**mm/in**	0.127 / 0.005
		FACE AREA	**m^2/ft^2**	0.89 / 9.66
		ROW		3
		FIN PER INCH		14
OUTDOOR COIL	**TUBE**	**MATERIAL**		INNER GROOVE SEAMLESS COPPER
		DIAMETER	**mm/in**	9.52 / 3/8
		THICKNESS	**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**		ALUMINIUM HYDROPHILIC
		THICKNESS	**mm/in**	0.127 / 0.005
		FACE AREA	**m^2/ft^2**	2.54 / 27.34
		ROW		2
		FIN PER INCH		18
FILTRATION	**TYPE**			AAF R15
	QUANTITY		**pc**	3
	DIMENSION (L x H x D)		**mm/in**	508.0 x 581.0 x 50.8 / 20.0 x 22.9 x 2.0
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 (R407C)

MODEL	**INDOOR UNIT**			**MDB150ER1**	**MDB150ER2**
	OUTDOOR UNIT			**M4MC150ER**	**M4MC075ER x 2**
INDOOR FAN	**TYPE**			CENTRIFUGAL	
	Q'TY			1	
	MATERIAL			ZINC COATED STEEL	
	DRIVE			BELT DRIVEN	
	DIAMETER		**mm/in**	395 / 15.6	
	LENGTH		**mm/in**	381 / 15.0	
INDOOR FAN MOTOR	**TYPE**			INDUCTION	
	Q'TY			1	
	INDEX OF PROTECTION (IP)			IP54	
OUTDOOR FAN	**TYPE**			PROPELLER	
	Q'TY			1	
	MATERIAL			ALUMINIUM	
	DRIVE			DIRECT	
	DIAMETER		**mm/in**	914.4 / 36.0	812.8 / 32.0
OUTDOOR FAN MOTOR	**TYPE**			INDUCTION	
	Q'TY			1	
	INDEX OF PROTECTION (IP)			IP54	
COMPRESSOR	**TYPE**			SCROLL	
	OIL TYPE			POE OIL	
	OIL AMOUNT		**cm^3 / fl.oz.**	4140 / 140.0	2150 / 85.0
INDOOR COIL	**TUBE**	**MATERIAL**		SEAMLESS COPPER	
		DIAMETER	**mm/in**	9.52 / 3/8	
		THICKNESS	**mm/in**	0.35 / 0.013	
	FIN	**MATERIAL**		ALUMINIUM	
		THICKNESS	**mm/in**	0.127 / 0.005	
		FACE AREA	**m^2/ft^2**	1.03 / 11.5	
		ROW		3	
		FIN PER INCH		14	
OUTDOOR COIL	**TUBE**	**MATERIAL**		INNER GROOVE TUBE	
		DIAMETER	**mm/in**	9.52 / 3/8	
		THICKNESS	**mm/in**	0.35 / 0.013	
	FIN	**MATERIAL**		ALUMINIUM HYDROPHILIC	
		THICKNESS	**mm/in**	0.127 / 0.005	
		FACE AREA	**m^2/ft^2**	2.82 / 30.4	2.29 / 24.7
		ROW		2	1
		FIN PER INCH		16	20
FILTRATION	**TYPE**			AAF R15	
	QUANTITY		**pc**	3	
	DIMENSION (L x H x D)		**mm/in**	601.0 x 581.0 x 50.8 / 23.7 x 22.9 x 2.0	
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 (R407C)

MODEL	**INDOOR UNIT**			**MDB200ER2**	**MDB250ER2**
	OUTDOOR UNIT			**M4MC100ER x 2**	**M4MC125ER x 2**
INDOOR FAN	**TYPE**			CENTRIFUGAL	
	Q'TY			1	1
	MATERIAL			ZINC COATED STEEL	
	DRIVE			BELT DRIVEN	
	DIAMETER		**mm/in**	395 / 15.6	467 / 18.5
	LENGTH		**mm/in**	381 / 15.0	460 / 18.1
INDOOR FAN MOTOR	**TYPE**			INDUCTION	
	Q'TY			1	
	INDEX OF PROTECTION (IP)			IP54	
OUTDOOR FAN	**TYPE**			PROPELLER	
	Q'TY			1	
	MATERIAL			ALUMINIUM	
	DRIVE			DIRECT	
	DIAMETER		**mm/in**	812.8 / 32.0	914.4 / 36.0
OUTDOOR FAN MOTOR	**TYPE**			INDUCTION	
	Q'TY			1	
	INDEX OF PROTECTION (IP)			IP54	
COMPRESSOR	**TYPE**			SCROLL	
	OIL TYPE			POE OIL	
	OIL AMOUNT		**cm^3 / fl.oz.**	3250 / 110.0	
INDOOR COIL	**TUBE**	**MATERIAL**		SEAMLESS COPPER	
		DIAMETER	**mm/in**	9.52 / 3/8	
		THICKNESS	**mm/in**	0.35 / 0.013	
	FIN	**MATERIAL**		ALUMINIUM	
		THICKNESS	**mm/in**	0.127 / 0.005	
		FACE AREA	**m^2/ft^2**	1.2 / 12.9	
		ROW		4	
		FIN PER INCH		12	
OUTDOOR COIL	**TUBE**	**MATERIAL**		INNER GROOVE TUBE	
		DIAMETER	**mm/in**	9.52 / 3/8	
		THICKNESS	**mm/in**	0.35 / 0.013	
	FIN	**MATERIAL**		ALUMINIUM HYDROPHILIC	
		THICKNESS	**mm/in**	0.127 / 0.005	
		FACE AREA	**m^2/ft^2**	2.3 / 24.3	2.5 / 27.3
		ROW		2	2
		FIN PER INCH		16	16
FILTRATION	**TYPE**			AAR R29	
	QUANTITY		**pc**	3	
	DIMENSION (L x H x D)		**mm/in**	543.0 x 738.0 x 50.8 / 21.4 x 29.1 x 2.0	
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 (R407C)

MODEL	**INDOOR UNIT**			**MDB300ER2**	**MDB300ER3**
	OUTDOOR UNIT			**M4MC150ER x 2**	**M4MC100ER x 3**
INDOOR FAN	**TYPE**			CENTRIFUGAL	
	Q'TY			1	1
	MATERIAL			ZINC COATED STEEL	
	DRIVE			BELT DRIVEN	
	DIAMETER		**mm/in**	467 / 18.5	
	LENGTH		**mm/in**	460 / 18.1	
INDOOR FAN MOTOR	**TYPE**			INDUCTION	
	Q'TY			1	
	INDEX OF PROTECTION (IP)			IP54	
OUTDOOR FAN	**TYPE**			PROPELLER	
	Q'TY			1	
	MATERIAL			ALUMINIUM	
	DRIVE			DIRECT	
	DIAMETER		**mm/in**	914.4 / 36.0	812.8 / 32.0
OUTDOOR FAN MOTOR	**TYPE**			INDUCTION	
	Q'TY			1	
	INDEX OF PROTECTION (IP)			IP54	
COMPRESSOR	**TYPE**			SCROLL	
	OIL TYPE			POE OIL	
	OIL AMOUNT		**cm^3 / fl.oz.**	4140 / 140.0	3250 / 110.0
INDOOR COIL	**TUBE**	**MATERIAL**		SEAMLESS COPPER	
		DIAMETER	**mm/in**	9.52 / 3/8	
		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 / 17.4	
		ROW		5	
		FIN PER INCH		12	
OUTDOOR COIL	**TUBE**	**MATERIAL**		INNER GROOVE TUBE	
		DIAMETER	**mm/in**	9.52 / 3/8	
		THICKNESS	**mm/in**	0.35 / 0.013	
	FIN	**MATERIAL**		ALUMINIUM HYDROPHILIC	
		THICKNESS	**mm/in**	0.127 / 0.005	
		FACE AREA	**m^2/ft^2**	2.82 / 30.4	2.26 / 24.3
		ROW		2	
		FIN PER INCH		16	
FILTRATION	**TYPE**			AAR R29	
	QUANTITY		**pc**	6	
	DIMENSION (L x H x D)		**mm/in**	534.0 x 529.0 x 50.8 / 21.0 x 20.8 x 2.0	
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 (R407C)

MODEL	INDOOR UNIT			MDB350ER3		MDB400ER4
	OUTDOOR UNIT			M4MC100ER	M4MC125ER x 2	M4MC100ER x 4
INDOOR FAN	TYPE			CENTRIFUGAL		
	Q'TY			1		1
	MATERIAL			ZINC COATED STEEL		
	DRIVE			BELT DRIVEN		
	DIAMETER		mm/in	467 / 18.5		591.8 / 23.3
	LENGTH		mm/in	460 / 18.1		563.9 / 22.2
INDOOR FAN MOTOR	TYPE			INDUCTION		
	Q'TY			1		
	INDEX OF PROTECTION (IP)			IP54		
OUTDOOR FAN	TYPE			PROPELLER		
	Q'TY			1		
	MATERIAL			ALUMINIUM		
	DRIVE			DIRECT		
	DIAMETER		mm/in	812.8 / 32.0	914.4 / 36.0	812.8 / 32.0
OUTDOOR FAN MOTOR	TYPE			INDUCTION		
	Q'TY			1		
	INDEX OF PROTECTION (IP)			IP54		
COMPRESSOR	TYPE			SCROLL		
	OIL TYPE			POE OIL		
	OIL AMOUNT		cm^3 / fl.oz.	3250 / 110.0		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER		
		DIAMETER	mm/in	9.52 / 3/8		
		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 / 25.6		
		ROW		4		
		FIN PER INCH		12		14
OUTDOOR COIL	TUBE	MATERIAL		INNER GROOVE TUBE		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.35 / 0.013		
	FIN	MATERIAL		ALUMINIUM HYDROPHILIC		
		THICKNESS	mm/in	0.127 / 0.005		
		FACE AREA	m^2/ft^2	2.26 / 24.3	2.54 / 27.34	2.26 / 24.3
		ROW		2		
		FIN PER INCH		16		
FILTRATION	TYPE			AAF R29		
	QUANTITY		pc	6		
	DIMENSION (L x H x D)		mm/in	619.0 x 657.0 x 50.8 / 24.4 x 25.9 x 2.0		
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 (R407C)

MODEL	**INDOOR UNIT**			**MDB450ER3**	**MDB500ER4**
	OUTDOOR UNIT			**M4MC150ER x 3**	**M4MC125ER x 4**
INDOOR FAN	**TYPE**			CENTRIFUGAL	
	Q'TY			1	1
	MATERIAL			ZINC COATED STEEL	
	DRIVE			BELT DRIVEN	
	DIAMETER		**mm/in**	591.8 / 23.3	
	LENGTH		**mm/in**	563.9 / 22.2	
INDOOR FAN MOTOR	**TYPE**			INDUCTION	
	Q'TY			1	
	INDEX OF PROTECTION (IP)			IP54	
OUTDOOR FAN	**TYPE**			PROPELLER	
	Q'TY			1	
	MATERIAL			ALUMINIUM	
	DRIVE			DIRECT	
	DIAMETER		**mm/in**	914.4 / 36.0	812.8 / 32.0
OUTDOOR FAN MOTOR	**TYPE**			INDUCTION	
	Q'TY			1	
	INDEX OF PROTECTION (IP)			IP54	
COMPRESSOR	**TYPE**			SCROLL	
	OIL TYPE			POE OIL	
	OIL AMOUNT		**cm^3 / fl.oz.**	4140 / 140.0	3250 / 110.0
INDOOR COIL	**TUBE**	**MATERIAL**		SEAMLESS COPPER	
		DIAMETER	**mm/in**	9.52 / 3/8	
		THICKNESS	**mm/in**	0.35 / 0.013	
	FIN	**MATERIAL**		ALUMINIUM	
		THICKNESS	**mm/in**	0.127 / 0.005	
		FACE AREA	**m^2/ft^2**	2.58 / 27.8	2.55 / 27.5
		ROW		4	5
		FIN PER INCH		14	12
OUTDOOR COIL	**TUBE**	**MATERIAL**		INNER GROOVE TUBE	
		DIAMETER	**mm/in**	9.52 / 3/8	
		THICKNESS	**mm/in**	0.35 / 0.013	
	FIN	**MATERIAL**		ALUMINIUM HYDROPHILIC	
		THICKNESS	**mm/in**	0.127 / 0.005	
		FACE AREA	**m^2/ft^2**	2.82 / 30.4	2.26 / 24.3
		ROW		2	
		FIN PER INCH		16	
FILTRATION	**TYPE**			AAF R29	
	QUANTITY		**pc**	670.0 x 657.0 x 50.8 / 26.4 x 25.9 x 2.0	
	DIMENSION (L x H x D)		**mm/in**	6	
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 (R407C)

MODEL	**INDOOR UNIT**			**MDB600ER4**
	OUTDOOR UNIT			**M4MC150ER x 4**
INDOOR FAN	**TYPE**			CENTRIFUGAL
	Q'TY			1
	MATERIAL			ZINC COATED STEEL
	DRIVE			BELT DRIVEN
	DIAMETER		**mm/in**	785.0 / 30.9
	LENGTH		**mm/in**	706.0 / 27.8
INDOOR FAN MOTOR	**TYPE**			INDUCTION
	Q'TY			1
	INDEX OF PROTECTION (IP)			IP54
OUTDOOR FAN	**TYPE**			PROPELLER
	Q'TY			1
	MATERIAL			ALUMINIUM
	DRIVE			DIRECT
	DIAMETER		**mm/in**	914.4 / 36.0
OUTDOOR FAN MOTOR	**TYPE**			INDUCTION
	Q'TY			1
	INDEX OF PROTECTION (IP)			IP54
COMPRESSOR	**TYPE**			SCROLL
	OIL TYPE			POE OIL
	OIL AMOUNT		**cm^3 / fl.oz.**	4140 / 140.0
INDOOR COIL	**TUBE**	**MATERIAL**		SEAMLESS COPPER
		DIAMETER	**mm/in**	9.52 / 3/8
		THICKNESS	**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**		ALUMINIUM
		THICKNESS	**mm/in**	0.127 / 0.005
		FACE AREA	**m^2/ft^2**	3.37 / 36.3
		ROW		6
		FIN PER INCH		12
OUTDOOR COIL	**TUBE**	**MATERIAL**		INNER GROOVE TUBE
		DIAMETER	**mm/in**	9.52 / 3/8
		THICKNESS	**mm/in**	0.35 / 0.013
	FIN	**MATERIAL**		ALUMINIUM HYDROPHILIC
		THICKNESS	**mm/in**	0.127 / 0.005
		FACE AREA	**m^2/ft^2**	2.82 / 30.4
		ROW		2
		FIN PER INCH		16
FILTRATION	**TYPE**			AAF R29
	QUANTITY		**pc**	6
	DIMENSION (L x H x D)		**mm/in**	670.0 x 577.0 x 50.8 / 26.4 x 22.7 x 2.0
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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SAFETY DEVICES - HEATPUMP (R407C)

MODEL	INDOOR UNIT			MDB075ER	MDB100ER
	OUTDOOR UNIT			M4MC075ER	M4MC100ER
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			YES	
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257	125 / 257

MODEL	INDOOR UNIT			MDB125ER
	OUTDOOR UNIT			M4MC125ER
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			YES
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

MODEL	INDOOR UNIT			MDB150ER1	MDB150ER2
	OUTDOOR UNIT			M4MC150ER	M4MC075ER 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			YES	
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257	125 / 257

MODEL	INDOOR UNIT			MDB200ER2	MDB250ER2
	OUTDOOR UNIT			M4MC100ER x 2	M4MC125ER 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			YES	
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257	125 / 257

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SAFETY DEVICES - HEATPUMP (R407C)

MODEL	INDOOR UNIT			MDB300ER2	MDB300ER3
	OUTDOOR UNIT			M4MC150ER x 2	M4MC100ER x 3
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			YES	
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257	125 / 257

MODEL	INDOOR UNIT			MDB350ER3		MDB400ER4
	OUTDOOR UNIT			M4MC100ER	M4MC125ER x 2	M4MC100ER x 4
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			YES		
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257		125 / 257

MODEL	INDOOR UNIT			MDB450ER3	MDB500ER4
	OUTDOOR UNIT			M4MC150ER x 3	M4MC125ER x 4
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			YES	
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257	125 / 257

MODEL	INDOOR UNIT			MDB600ER4	
	OUTDOOR UNIT			M4MC150ER x 4	
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			YES	
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257	125 / 257

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Performance Data

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

Example:

Model: MDB075ER / MMC075ER
Indoor Condition: 23°C DB, 15°C WB
Outdoor Condition: 37°C DB
Fan Speed: High

Solution:

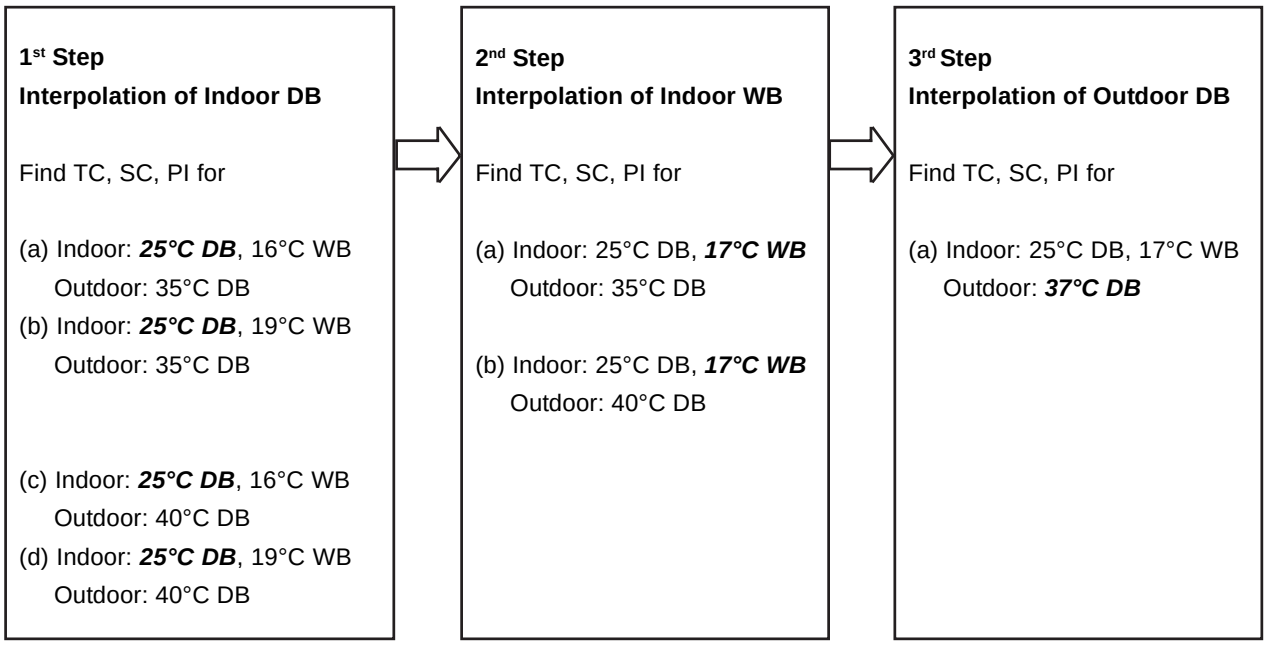
Overall
Based on the Performance table

1. Refer to the Indoor DB column,
   - **25°C** is located between 24°C and 27°C for 16°CWB (Thus, Interpolation need to be applied)
   - **25°C** is located between 24°C and 27°C for 19°CWB (Thus, Interpolation need to be applied)

2. Refer to the Indoor WB column,
   - **17°C** is located between 16°CWB and 19°CWB for 25°CDB (Thus, Interpolation need to be applied)

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 and Power input for

(a) Indoor Condition: *25°C DB*, 16°C WB

Outdoor Condition: 35°C DB

Indoor WB ° C	Indoor DB ° C	Outdoor DB ° C			
			35		
			TC (kW)	SHC (kW)	PI (kW)
16					
	24		20.54	18.22	7.57
	25		x_1	y_1	z_1
	27		21.13	20.66	7.61

Total capacity, TC

Interpolation Method:

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{x_1 - 20.54kW}{21.13kW - 20.54kW}$$

$$\Rightarrow x_1 = 20.74kW$$

Sensible capacity, SHC

Interpolation Method:

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{y_1 - 18.22kW}{20.66kW - 18.22kW}$$

$$\Rightarrow y_1 = 19.03kW$$

Power Input, PI

Interpolation Method:

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{z_1 - 7.57kW}{7.61kW - 7.57kW}$$

$$\Rightarrow z_1 = 7.58kW$$

(b) Indoor Condition: *25°C DB*, 16°C WB

Outdoor Condition: 40°C DB

Indoor WB ° C	Indoor DB ° C	Outdoor DB ° C			
			40		
			TC (kW)	SHC (kW)	PI (kW)
16					
	24		18.87	17.00	8.21
	25		x_2	y_2	z_2
	27		19.53	19.14	8.26

Total capacity, TC

Interpolation Method:

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{x_2 - 18.87kW}{19.53kW - 18.87kW}$$

$$\Rightarrow x_2 = 19.09kW$$

Sensible capacity, SHC

Interpolation Method:

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{y_2 - 17.00kW}{19.14kW - 17.00kW}$$

$$\Rightarrow y_2 = 17.71kW$$

Power Input, PI

Interpolation Method:

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{z_2 - 8.21kW}{8.26kW - 8.21kW}$$

$$\Rightarrow z_2 = 8.23kW$$

* Repeat process (a) and (b) in 1st step for the condition below:

(c) Indoor Condition: *25°C DB*, 19°C WB

Outdoor Condition: 35°C DB

$\Rightarrow x_3 = 22.51kW$
$\Rightarrow y_3 = 15.13kW$
$\Rightarrow z_3 = 7.70kW$

(c) Indoor Condition: *25°C DB*, 19°C WB

Outdoor Condition: 40°C DB

$\Rightarrow x_4 = 20.66kW$
$\Rightarrow y_4 = 14.12kW$
$\Rightarrow z_4 = 8.35kW$

2nd Step:

To obtain the Total capacity and Sensible capacity and Power Input for

(a) Indoor Condition: 25°C DB, **17°C WB**
Outdoor Condition: 35°C DB

Indoor DB ° C	**Indoor WB ° C**	**Outdoor DB ° C**			
			35		
			TC (kW)	**SC (kW)**	**PI (kW)**
16	**25**		20.74	19.03	7.58
17			x_5	y_5	z_5
19			22.51	15.13	7.70

Total capacity, TC

Interpolation Method:

$$\Rightarrow \frac{17°C - 16°C}{19°C - 16°C} = \frac{x_5 - 20.74kW}{22.51kW - 20.74kW}$$

$$\Rightarrow x_5 = 21.33kW$$

Sensible capacity, SHC

Interpolation Method:

$$\Rightarrow \frac{17°C - 16°C}{19°C - 16°C} = \frac{y_5 - 19.03kW}{15.13kW - 19.03kW}$$

$$\Rightarrow y_5 = 17.73kW$$

Power Input, PI

Interpolation Method:

$$\Rightarrow \frac{17°C - 16°C}{19°C - 16°C} = \frac{z_5 - 7.58kW}{7.70kW - 7.58kW}$$

$$\Rightarrow z_5 = 7.62kW$$

(b) Indoor Condition: 25°C DB, **17°C WB**
Outdoor Condition: 40°C DB

Indoor DB ° C	**Indoor WB ° C**	**Outdoor DB ° C**			
			40		
			TC (kW)	**SC (kW)**	**PI (kW)**
16	**25**		19.09	17.71	8.23
17			x_6	y_6	z_6
19			20.66	14.12	8.35

Total capacity, TC

Interpolation Method:

$$\Rightarrow \frac{17°C - 16°C}{19°C - 16°C} = \frac{x_6 - 19.09kW}{20.66kW - 19.09kW}$$

$$\Rightarrow x_6 = 19.61kW$$

Sensible capacity, SHC

Interpolation Method:

$$\Rightarrow \frac{17°C - 16°C}{19°C - 16°C} = \frac{y_6 - 17.71kW}{14.12kW - 17.71kW}$$

$$\Rightarrow y_6 = 16.51kW$$

Power Input, PI

Interpolation Method:

$$\Rightarrow \frac{17°C - 16°C}{19°C - 16°C} = \frac{z_6 - 8.23kW}{8.35kW - 8.23kW}$$

$$\Rightarrow z_6 = 8.27kW$$

3rd Step:

To obtain the Total capacity and Sensible capacity for

(a) Indoor Condition: 25°C DB, 17°C WB

Outdoor Condition: 37°C DB

Indoor DB ° C	Indoor WB ° C		Outdoor DB ° C								
			35			37			40		
			TC (kW)	SHC (kW)	PI (kW)	TC (kW)	SC (kW)	PI (kW)	TC (kW)	SC (kW)	PI (kW)
25	**17**		21.33	17.73	7.62	**x**	**y**	**z**	19.61	16.51	8.27

Total capacity, TC

Interpolation Method:

$$\Rightarrow \frac{37°C - 35°C}{40°C - 35°C} = \frac{x - 21.33kW}{19.61kW - 21.33kW}$$

$$\Rightarrow x = 20.64kW$$

Sensible capacity, SHC

Interpolation Method:

$$\Rightarrow \frac{37°C - 35°C}{40°C - 35°C} = \frac{y - 17.73kW}{16.51kW - 17.73kW}$$

$$\Rightarrow y = 17.24kW$$

Power Input, PI

Interpolation Method:

$$\Rightarrow \frac{37°C - 35°C}{40°C - 35°C} = \frac{z - 7.62kW}{8.27kW - 7.62kW}$$

$$\Rightarrow z = 7.88kW$$

R22
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB075ER ~ MMC075ER

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
1550	16°C	21°C	21.28	14.85	5.85	20.52	14.46	6.33	19.76	14.07	6.86	18.97	13.67	7.43	17.42	12.72	8.06	16.08	11.97	8.89
		24°C	21.30	17.78	5.85	20.55	17.38	6.33	19.79	16.97	6.86	19.00	16.55	7.44	17.45	15.46	8.07	16.14	14.58	8.89
		27°C	21.47	20.16	5.86	20.76	19.70	6.34	20.03	19.24	6.87	19.27	18.75	7.45	17.78	17.45	8.09	16.55	16.38	8.93
		30°C	22.13	22.13	5.89	21.50	21.50	6.38	20.85	20.85	6.92	20.18	20.18	7.51	18.70	18.70	8.16	17.50	17.50	9.01
	19°C	24°C	23.47	13.86	5.95	22.65	13.51	6.44	21.81	13.15	6.97	20.95	12.78	7.56	19.25	11.91	8.20	17.80	11.21	9.04
		27°C	23.48	15.86	5.95	22.66	15.51	6.44	21.83	15.15	6.97	20.97	14.78	7.56	19.27	13.83	8.21	17.82	13.10	9.05
		30°C	23.52	19.57	5.95	22.71	19.16	6.44	21.91	18.73	6.98	21.07	18.28	7.57	19.40	17.10	8.22	18.00	16.18	9.06
		33°C	23.80	23.80	5.96	23.02	23.02	6.46	22.28	22.28	7.00	21.52	21.52	7.60	19.91	19.91	8.26	18.61	18.61	9.12
	22°C	27°C	25.82	13.57	6.05	24.92	13.24	6.56	24.02	12.91	7.11	23.08	12.56	7.71	21.22	11.70	8.36	19.64	11.03	9.22
		30°C	25.83	16.54	6.05	24.93	16.19	6.56	24.02	15.82	7.11	23.08	15.44	7.71	21.23	14.45	8.37	19.65	13.71	9.22
		33°C	25.84	19.31	6.05	24.95	18.95	6.56	24.04	18.57	7.11	23.10	18.19	7.71	21.26	17.07	8.37	19.70	16.22	9.22
		36°C	25.93	21.90	6.06	25.07	21.46	6.57	24.20	21.02	7.12	23.32	20.55	7.73	21.50	19.27	8.39	19.99	18.28	9.25
2060	16°C	21°C	22.14	15.50	5.91	21.34	15.10	6.39	20.54	14.70	6.92	19.70	14.28	7.50	18.07	13.30	8.13	16.67	12.51	8.96
		24°C	22.21	18.81	5.91	21.41	18.37	6.39	20.61	17.93	6.92	19.78	17.48	7.51	18.17	16.31	8.14	16.80	15.39	8.97
		27°C	22.48	21.36	5.92	21.72	20.86	6.41	20.97	20.33	6.94	20.22	19.72	7.53	18.67	18.32	8.18	17.39	17.14	9.03
		30°C	23.41	23.41	5.96	22.74	22.74	6.46	22.04	22.04	7.01	21.33	21.33	7.61	19.76	19.76	8.26	18.47	18.47	9.12
	19°C	24°C	24.40	14.66	6.00	23.53	14.29	6.50	22.64	13.92	7.04	21.73	13.54	7.63	19.96	12.61	8.28	18.44	11.89	9.12
		27°C	24.44	16.88	6.00	23.57	16.51	6.50	22.69	16.14	7.04	21.77	15.76	7.64	20.01	14.73	8.28	18.50	13.95	9.13
		30°C	24.55	20.83	6.01	23.70	20.38	6.51	22.85	19.92	7.05	21.98	19.44	7.65	20.24	18.17	8.30	18.77	17.17	9.15
		33°C	24.96	24.96	6.03	24.20	24.20	6.54	23.43	23.43	7.09	22.65	22.65	7.70	20.98	20.98	8.36	19.62	19.62	9.23
	22°C	27°C	26.80	14.35	6.11	25.86	14.02	6.62	24.90	13.66	7.18	23.91	13.29	7.78	21.97	12.40	8.44	20.32	11.70	9.30
		30°C	26.84	17.61	6.11	25.89	17.25	6.62	24.93	16.86	7.18	23.94	16.47	7.79	22.00	15.43	8.44	20.35	14.64	9.30
		33°C	26.89	20.64	6.12	25.95	20.24	6.63	25.00	19.83	7.19	24.01	19.41	7.79	22.09	18.21	8.45	20.48	17.29	9.31
		36°C	27.05	23.33	6.13	26.18	22.89	6.64	25.26	22.41	7.20	24.34	21.89	7.82	22.46	20.49	8.48	20.94	19.33	9.36
2250	16°C	21°C	22.96	16.17	5.95	22.12	15.76	6.44	21.27	15.34	6.97	20.39	14.91	7.56	18.70	13.89	8.20	17.24	13.07	9.03
		24°C	23.08	19.65	5.96	22.24	19.18	6.45	21.41	18.71	6.98	20.54	18.22	7.57	18.87	17.00	8.21	17.43	16.03	9.05
		27°C	23.45	22.51	5.98	22.69	21.93	6.47	21.92	21.32	7.01	21.13	20.66	7.61	19.53	19.14	8.26	18.20	17.87	9.12
		30°C	24.63	24.63	6.03	23.91	23.91	6.53	23.17	23.17	7.09	22.41	22.41	7.69	20.75	20.75	8.36	19.38	19.38	9.22
	19°C	24°C	25.27	15.51	6.05	24.36	15.12	6.55	23.43	14.74	7.10	22.48	14.34	7.70	20.63	13.37	8.35	19.05	12.61	9.19
		27°C	25.35	17.94	6.06	24.44	17.53	6.56	23.52	17.12	7.10	22.57	16.70	7.70	20.72	15.62	8.35	19.15	14.78	9.21
		30°C	25.56	22.08	6.07	24.65	21.60	6.57	23.77	21.10	7.12	22.86	20.58	7.72	21.05	19.22	8.38	19.54	18.11	9.24
		33°C	26.11	26.11	6.10	25.35	25.35	6.61	24.57	24.57	7.17	23.76	23.76	7.79	22.01	22.01	8.46	20.58	20.58	9.34
	22°C	27°C	27.73	15.17	6.17	26.75	14.84	6.68	25.74	14.47	7.24	24.71	14.09	7.85	22.69	13.14	8.51	20.97	12.41	9.37
		30°C	27.79	18.70	6.17	26.80	18.35	6.68	25.79	17.95	7.24	24.76	17.54	7.85	22.75	16.42	8.52	21.04	15.57	9.38
		33°C	27.89	21.92	6.18	26.92	21.53	6.69	25.93	21.08	7.25	24.91	20.62	7.87	22.92	19.32	8.53	21.23	18.34	9.40
		36°C	28.13	24.75	6.19	27.25	24.30	6.71	26.31	23.77	7.28	25.36	23.18	7.90	23.44	21.62	8.58	21.86	20.35	9.46

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB100ER ~ MMC100ER

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
2600	16°C	21°C	26.54	19.04	7.28	25.60	18.54	7.87	24.65	18.04	8.53	23.66	17.52	9.25	21.73	16.31	10.03	20.06	15.34	11.06
		24°C	26.58	22.79	7.28	25.63	22.27	7.87	24.68	21.75	8.53	23.70	21.21	9.25	21.77	19.81	10.03	20.14	18.69	11.06
		27°C	26.79	25.84	7.29	25.90	25.26	7.89	24.99	24.66	8.55	24.04	24.03	9.27	22.19	22.36	10.06	20.64	21.00	11.10
		30°C	27.61	27.61	7.33	26.82	26.82	7.93	26.01	26.01	8.60	25.17	25.17	9.34	23.33	23.33	10.15	21.83	21.83	11.21
	19°C	24°C	29.28	17.77	7.40	28.25	17.32	8.00	27.21	16.86	8.67	26.14	16.39	9.41	24.02	15.26	10.20	22.21	14.37	11.25
		27°C	29.30	20.33	7.40	28.26	19.88	8.01	27.23	19.42	8.68	26.16	18.95	9.41	24.04	17.73	10.21	22.23	16.79	11.25
		30°C	29.34	25.09	7.40	28.33	24.56	8.01	27.33	24.01	8.68	26.29	23.44	9.42	24.21	21.92	10.22	22.46	20.74	11.27
		33°C	29.69	29.69	7.42	28.72	28.72	8.03	27.79	27.79	8.71	26.84	26.84	9.45	24.84	24.84	10.27	23.22	23.22	11.34
	22°C	27°C	32.21	17.40	7.53	31.09	16.97	8.16	29.96	16.55	8.84	28.79	16.09	9.59	26.47	15.00	10.40	24.51	14.14	11.46
		30°C	32.22	21.20	7.53	31.11	20.75	8.16	29.96	20.28	8.84	28.80	19.79	9.59	26.48	18.53	10.41	24.51	17.57	11.47
		33°C	32.24	24.76	7.53	31.12	24.29	8.16	29.99	23.80	8.84	28.82	23.31	9.59	26.52	21.88	10.41	24.58	20.79	11.47
		36°C	32.34	28.07	7.54	31.27	27.51	8.17	30.19	26.94	8.86	29.09	26.35	9.61	26.83	24.70	10.43	24.94	23.43	11.50
2800	16°C	21°C	27.61	19.84	7.34	26.61	19.33	7.94	25.60	18.82	8.60	24.56	18.29	9.33	22.53	17.03	10.11	20.79	16.03	11.15
		24°C	27.69	24.09	7.35	26.70	23.52	7.95	25.70	22.96	8.61	24.66	22.38	9.34	22.65	20.88	10.13	20.94	19.71	11.16
		27°C	28.03	27.36	7.37	27.08	26.72	7.97	26.15	26.03	8.63	25.21	25.26	9.37	23.27	23.46	10.17	21.68	21.94	11.23
		30°C	29.19	29.19	7.42	28.35	28.35	8.03	27.49	27.49	8.71	26.59	26.59	9.46	24.64	24.64	10.28	23.03	23.03	11.35
	19°C	24°C	30.42	18.77	7.46	29.33	18.30	8.08	28.23	17.82	8.75	27.10	17.33	9.49	24.88	16.15	10.29	22.99	15.22	11.34
		27°C	30.47	21.62	7.47	29.38	21.14	8.08	28.28	20.67	8.76	27.15	20.18	9.50	24.94	18.86	10.30	23.06	17.86	11.35
		30°C	30.62	26.67	7.48	29.55	26.10	8.09	28.49	25.51	8.77	27.40	24.89	9.51	25.23	23.27	10.32	23.41	21.98	11.38
		33°C	31.13	31.13	7.50	30.18	30.18	8.13	29.21	29.21	8.82	28.25	28.25	9.57	26.16	26.16	10.40	24.46	24.46	11.48
	22°C	27°C	33.42	18.38	7.60	32.24	17.95	8.24	31.05	17.49	8.93	29.81	17.02	9.68	27.39	15.88	10.50	25.34	14.98	11.56
		30°C	33.46	22.55	7.60	32.28	22.09	8.24	31.08	21.59	8.93	29.85	21.09	9.68	27.43	19.75	10.50	25.37	18.74	11.57
		33°C	33.52	26.43	7.61	32.36	25.92	8.24	31.17	25.39	8.94	29.94	24.85	9.69	27.55	23.31	10.51	25.53	22.13	11.58
		36°C	33.73	29.88	7.62	32.64	29.31	8.26	31.50	28.70	8.96	30.35	28.03	9.72	28.00	26.23	10.55	26.11	24.75	11.64
3000	16°C	21°C	28.63	20.70	7.40	27.58	20.18	8.01	26.52	19.64	8.67	25.42	19.09	9.40	23.32	17.78	10.19	21.49	16.74	11.24
		24°C	28.78	25.16	7.41	27.73	24.56	8.02	26.69	23.96	8.68	25.61	23.33	9.42	23.52	21.77	10.21	21.73	20.53	11.25
		27°C	29.24	28.83	7.43	28.29	28.08	8.05	27.33	27.30	8.72	26.35	26.45	9.46	24.35	24.50	10.27	22.69	22.88	11.34
		30°C	30.70	30.70	7.50	29.81	29.81	8.12	28.89	28.89	8.81	27.94	27.94	9.57	25.87	25.87	10.39	24.16	24.16	11.47
	19°C	24°C	31.51	19.86	7.53	30.37	19.37	8.15	29.22	18.87	8.83	28.03	18.36	9.57	25.72	17.11	10.38	23.75	16.14	11.43
		27°C	31.60	22.97	7.53	30.47	22.45	8.15	29.32	21.92	8.83	28.14	21.39	9.58	25.84	20.00	10.39	23.88	18.92	11.45
		30°C	31.86	28.27	7.55	30.74	27.66	8.17	29.64	27.02	8.85	28.50	26.35	9.60	26.24	24.61	10.42	24.36	23.19	11.49
		33°C	32.55	32.55	7.58	31.60	31.60	8.22	30.63	30.63	8.92	29.62	29.62	9.68	27.44	27.44	10.52	25.66	25.66	11.61
	22°C	27°C	34.58	19.42	7.67	33.35	19.00	8.31	32.09	18.52	9.00	30.80	18.04	9.76	28.29	16.83	10.59	26.15	15.89	11.66
		30°C	34.65	23.95	7.67	33.41	23.49	8.31	32.16	22.98	9.01	30.87	22.46	9.77	28.36	21.03	10.59	26.23	19.94	11.67
		33°C	34.77	28.06	7.68	33.57	27.57	8.32	32.33	26.99	9.02	31.06	26.40	9.79	28.58	24.74	10.61	26.47	23.48	11.69
		36°C	35.08	31.69	7.70	33.98	31.11	8.35	32.80	30.43	9.05	31.62	29.68	9.82	29.22	27.68	10.66	27.26	26.06	11.77

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R22
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB125ER ~ MMC125ER

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
3375	16°C	21°C	33.60	24.01	8.95	32.53	23.49	9.57	31.40	22.92	10.28	30.19	22.33	11.09	27.17	20.38	12.00	25.24	19.28	13.22
		24°C	33.73	28.60	8.96	32.67	28.01	9.58	31.54	27.38	10.29	30.33	26.71	11.11	27.31	24.45	12.02	25.36	23.23	13.23
		27°C	33.85	32.93	8.97	32.82	32.31	9.59	31.72	31.65	10.31	30.59	30.59	11.13	27.69	27.69	12.05	25.99	25.99	13.30
		30°C	35.20	35.20	9.06	34.31	34.31	9.70	33.35	33.35	10.43	32.33	32.33	11.27	29.37	29.37	12.21	27.62	27.62	13.46
	19°C	24°C	36.91	22.69	9.18	35.77	22.19	9.80	34.54	21.67	10.53	33.23	21.12	11.35	29.94	19.30	12.26	27.84	18.32	13.49
		27°C	37.01	26.50	9.18	35.86	25.96	9.81	34.63	25.39	10.53	33.34	24.78	11.36	30.05	22.70	12.27	27.95	21.59	13.50
		30°C	37.15	32.34	9.19	35.98	31.76	9.82	34.74	31.14	10.55	33.44	30.49	11.37	30.15	28.03	12.29	28.07	26.80	13.51
		33°C	37.37	37.37	9.21	36.30	36.30	9.84	35.24	35.24	10.58	34.18	34.18	11.43	31.09	31.09	12.38	29.28	29.28	13.64
	22°C	27°C	40.50	21.31	9.43	39.22	20.84	10.07	37.89	20.36	10.80	36.49	19.85	11.63	32.91	18.16	12.55	30.64	17.25	13.78
		30°C	40.56	26.35	9.43	39.28	25.82	10.07	37.96	25.28	10.80	36.56	24.70	11.63	32.98	22.64	12.56	30.72	21.57	13.79
		33°C	40.67	30.70	9.44	39.40	30.15	10.08	38.07	29.58	10.81	36.67	28.98	11.65	33.08	26.66	12.57	30.83	25.51	13.80
		36°C	40.79	34.96	9.45	39.52	34.41	10.09	38.17	33.82	10.82	36.78	33.23	11.66	33.21	30.61	12.58	31.10	29.17	13.83
3750	16°C	21°C	34.31	24.98	9.00	33.21	24.45	9.62	32.02	23.86	10.33	30.77	23.22	11.14	27.69	21.17	12.05	25.70	20.01	13.26
		24°C	34.48	29.78	9.01	33.39	29.17	9.63	32.21	28.53	10.34	30.96	27.85	11.16	27.86	25.50	12.07	25.85	24.25	13.28
		27°C	34.72	34.52	9.03	33.69	33.69	9.65	32.64	32.64	10.38	31.59	31.59	11.21	28.65	28.65	12.14	26.87	26.87	13.39
		30°C	36.52	36.52	9.15	35.58	35.58	9.79	34.57	34.57	10.53	33.50	33.50	11.37	30.41	30.41	12.31	28.58	28.58	13.56
	19°C	24°C	37.67	23.58	9.23	36.48	23.08	9.85	35.19	22.55	10.58	33.84	22.00	11.40	30.47	20.13	12.32	28.34	19.12	13.54
		27°C	37.81	27.60	9.24	36.62	27.05	9.87	35.34	26.46	10.59	34.00	25.84	11.41	30.63	23.68	12.33	28.48	22.55	13.55
		30°C	37.98	33.86	9.25	36.77	33.26	9.88	35.48	32.63	10.61	34.15	31.98	11.43	30.79	29.39	12.35	28.71	27.95	13.58
		33°C	38.58	38.58	9.29	37.59	37.59	9.94	36.55	36.55	10.69	35.44	35.44	11.54	32.22	32.22	12.49	30.32	30.32	13.75
	22°C	27°C	41.28	22.14	9.48	39.96	21.67	10.12	38.58	21.18	10.86	37.12	20.67	11.68	33.47	18.93	12.61	31.15	18.01	13.84
		30°C	41.38	27.49	9.49	40.06	26.94	10.13	38.69	26.38	10.86	37.24	25.78	11.69	33.58	23.64	12.62	31.27	22.54	13.85
		33°C	41.54	32.15	9.50	40.22	31.59	10.14	38.84	31.01	10.88	37.38	30.40	11.71	33.71	27.98	12.63	31.40	26.79	13.87
		36°C	41.68	36.76	9.51	40.36	36.19	10.15	39.00	35.55	10.89	37.65	34.79	11.73	34.13	32.16	12.68	32.09	30.67	13.94
4125	16°C	21°C	34.91	25.66	9.04	33.77	25.07	9.66	32.56	24.43	10.37	31.29	23.76	11.19	28.14	21.67	12.09	26.10	20.48	13.31
		24°C	35.14	30.58	9.06	34.00	29.96	9.67	32.79	29.32	10.39	31.50	28.63	11.20	28.32	26.23	12.11	26.28	24.96	13.33
		27°C	35.63	35.63	9.09	34.64	34.64	9.72	33.62	33.62	10.45	32.53	32.53	11.29	29.48	29.48	12.22	27.64	27.64	13.47
		30°C	37.70	37.70	9.23	36.70	36.70	9.87	35.65	35.65	10.62	34.52	34.52	11.46	31.33	31.33	12.40	29.42	29.42	13.65
	19°C	24°C	38.30	24.68	9.27	37.06	24.17	9.90	35.75	23.64	10.62	34.36	23.06	11.44	30.93	21.07	12.36	28.74	19.97	13.58
		27°C	38.49	28.89	9.29	37.26	28.32	9.91	35.94	27.71	10.64	34.56	27.07	11.46	31.11	24.82	12.38	28.91	23.65	13.60
		30°C	38.69	35.60	9.30	37.43	34.98	9.93	36.14	34.32	10.66	34.79	33.58	11.48	31.44	30.70	12.41	29.43	28.99	13.66
		33°C	39.83	39.83	9.38	38.79	38.79	10.03	37.71	37.71	10.78	36.55	36.55	11.63	33.21	33.21	12.58	31.24	31.24	13.85
	22°C	27°C	41.94	23.16	9.53	40.58	22.68	10.17	39.15	22.19	10.90	37.67	21.68	11.73	33.94	19.88	12.65	31.58	18.92	13.88
		30°C	42.08	28.80	9.54	40.73	28.23	10.18	39.31	27.64	10.92	37.83	27.03	11.75	34.10	24.80	12.67	31.74	23.66	13.90
		33°C	42.28	33.82	9.55	40.91	33.25	10.20	39.49	32.65	10.93	37.99	32.02	11.76	34.24	29.48	12.69	31.88	28.26	13.92
		36°C	42.49	38.74	9.57	41.22	38.02	10.22	39.92	37.18	10.97	38.63	36.21	11.82	35.12	33.30	12.78	33.08	31.62	14.05

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB150ER ~ MMC150ER

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
4050	16°C	21°C	43.44	29.42	11.82	42.07	28.77	12.63	40.60	28.08	13.57	39.03	27.35	14.64	35.12	24.97	15.84	32.63	23.62	17.44
		24°C	43.61	35.04	11.83	42.23	34.31	12.64	40.77	33.54	13.58	39.22	32.72	14.66	35.31	29.95	15.86	32.79	28.46	17.46
		27°C	43.77	40.33	11.84	42.44	39.58	12.66	41.01	38.76	13.60	39.55	37.76	14.69	35.81	34.39	15.91	33.60	32.30	17.55
		30°C	45.51	45.51	11.96	44.36	44.36	12.80	43.12	43.12	13.77	41.80	41.80	14.88	37.98	37.98	16.12	35.71	35.71	17.77
	19°C	24°C	47.73	27.79	12.11	46.25	27.19	12.94	44.66	26.54	13.89	42.97	25.87	14.98	38.71	23.65	16.19	35.99	22.44	17.80
		27°C	47.85	32.46	12.12	46.36	31.80	12.95	44.78	31.10	13.90	43.10	30.35	14.99	38.85	27.80	16.20	36.14	26.45	17.81
		30°C	48.03	39.62	12.13	46.52	38.90	12.96	44.92	38.14	13.92	43.23	37.35	15.00	38.98	34.34	16.22	36.29	32.83	17.83
		33°C	48.31	48.31	12.15	46.94	46.94	12.99	45.57	45.57	13.97	44.20	44.20	15.09	40.19	40.19	16.33	37.85	37.85	18.00
	22°C	27°C	52.37	26.11	12.44	50.71	25.53	13.28	48.99	24.94	14.25	47.17	24.32	15.35	42.55	22.25	16.57	39.61	21.13	18.19
		30°C	52.44	32.27	12.45	50.79	31.63	13.29	49.08	30.97	14.26	47.27	30.25	15.35	42.64	27.73	16.58	39.72	26.42	18.20
		33°C	52.59	37.61	12.46	50.94	36.93	13.30	49.22	36.24	14.27	47.41	35.50	15.37	42.77	32.65	16.59	39.86	31.24	18.22
		36°C	52.74	42.82	12.47	51.09	42.14	13.32	49.35	41.43	14.29	47.55	40.70	15.38	42.94	37.49	16.61	40.21	35.73	18.26
4500	16°C	21°C	44.36	30.60	11.88	42.93	29.95	12.69	41.40	29.23	13.63	39.79	28.44	14.71	35.81	25.93	15.91	33.23	24.51	17.51
		24°C	44.59	36.48	11.90	43.17	35.73	12.71	41.65	34.95	13.65	40.03	34.11	14.73	36.03	31.24	15.93	33.42	29.70	17.53
		27°C	44.90	42.29	11.91	43.56	41.38	12.74	42.20	40.31	13.70	40.84	39.05	14.80	37.04	35.59	16.03	34.74	33.49	17.67
		30°C	47.22	47.22	12.08	46.01	46.01	12.92	44.70	44.70	13.90	43.31	43.31	15.01	39.32	39.32	16.25	36.95	36.95	17.90
	19°C	24°C	48.70	28.88	12.18	47.16	28.28	13.01	45.50	27.63	13.96	43.76	26.95	15.04	39.40	24.65	16.26	36.64	23.42	17.86
		27°C	48.89	33.81	12.19	47.34	33.13	13.02	45.70	32.41	13.98	43.96	31.65	15.06	39.60	29.00	16.27	36.82	27.62	17.88
		30°C	49.11	41.47	12.21	47.54	40.74	13.04	45.88	39.97	14.00	44.15	39.17	15.08	39.80	36.00	16.29	37.12	34.24	17.92
		33°C	49.88	49.88	12.26	48.60	48.60	13.12	47.26	47.26	14.11	45.83	45.83	15.23	41.65	41.65	16.48	39.20	39.20	18.15
	22°C	27°C	53.38	27.12	12.51	51.67	26.54	13.36	49.88	25.94	14.33	48.00	25.32	15.42	43.27	23.19	16.64	40.28	22.07	18.26
		30°C	53.50	33.68	12.52	51.80	33.00	13.37	50.02	32.31	14.34	48.14	31.58	15.43	43.41	28.96	16.65	40.43	27.61	18.28
		33°C	53.71	39.38	12.54	52.01	38.70	13.39	50.22	37.98	14.36	48.33	37.23	15.45	43.59	34.27	16.68	40.60	32.82	18.30
		36°C	53.90	45.03	12.55	52.19	44.33	13.40	50.42	43.54	14.38	48.68	42.62	15.48	44.13	39.40	16.73	41.49	37.57	18.40
4950	16°C	21°C	45.14	31.43	11.93	43.66	30.70	12.75	42.10	29.93	13.69	40.45	29.11	14.76	36.38	26.54	15.96	33.75	25.08	17.56
		24°C	45.43	37.46	11.95	43.95	36.70	12.77	42.39	35.91	13.71	40.73	35.07	14.79	36.62	32.12	15.99	33.98	30.58	17.59
		27°C	46.07	43.66	11.99	44.79	42.94	12.83	43.47	42.10	13.80	42.05	41.14	14.90	38.12	37.41	16.13	35.74	35.25	17.77
		30°C	48.74	48.74	12.18	47.45	47.45	13.03	46.09	46.09	14.01	44.63	44.63	15.12	40.50	40.50	16.36	38.04	38.04	18.02
	19°C	24°C	49.51	30.23	12.24	47.92	29.61	13.07	46.22	28.95	14.02	44.42	28.24	15.10	39.99	25.81	16.31	37.16	24.46	17.92
		27°C	49.76	35.38	12.26	48.17	34.68	13.09	46.46	33.94	14.04	44.68	33.16	15.13	40.23	30.40	16.34	37.38	28.97	17.95
		30°C	50.03	43.60	12.28	48.39	42.84	13.11	46.73	42.04	14.07	44.98	41.13	15.15	40.65	37.61	16.38	38.05	35.51	18.02
		33°C	51.49	51.49	12.38	50.16	50.16	13.24	48.76	48.76	14.23	47.26	47.26	15.36	42.94	42.94	16.61	40.39	40.39	18.28
	22°C	27°C	54.22	28.36	12.58	52.47	27.78	13.42	50.62	27.18	14.39	48.70	26.56	15.48	43.89	24.36	16.70	40.83	23.18	18.32
		30°C	54.40	35.28	12.59	52.66	34.58	13.44	50.83	33.86	14.41	48.91	33.10	15.50	44.08	30.38	16.72	41.03	28.98	18.35
		33°C	54.66	41.43	12.61	52.90	40.72	13.46	51.06	39.99	14.43	49.12	39.22	15.53	44.27	36.11	16.75	41.21	34.61	18.37
		36°C	54.94	47.45	12.63	53.29	46.57	13.49	51.61	45.54	14.48	49.94	44.36	15.60	45.40	40.79	16.86	42.77	38.73	18.55

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R22
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB150ER2 ~ MMC075ER x 2

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
4050	16°C	21°C	44.60	31.04	12.27	43.19	30.35	13.11	41.68	29.63	14.09	40.07	28.86	15.20	36.06	26.34	16.45	33.50	24.92	18.11
		24°C	44.77	36.97	12.28	43.36	36.20	13.12	41.86	35.39	14.10	40.26	34.53	15.22	36.25	31.60	16.47	33.67	30.03	18.13
		27°C	44.94	42.55	12.29	43.56	41.76	13.14	42.10	40.90	14.12	40.61	39.84	15.25	36.76	36.28	16.52	34.50	34.08	18.22
		30°C	46.72	46.72	12.41	45.54	45.54	13.29	44.27	44.27	14.30	42.92	42.92	15.45	38.99	38.99	16.73	36.66	36.66	18.45
	19°C	24°C	49.00	29.32	12.58	47.48	28.68	13.43	45.84	28.01	14.42	44.11	27.29	15.55	39.74	24.95	16.80	36.95	23.67	18.48
		27°C	49.12	34.25	12.58	47.59	33.55	13.44	45.97	32.81	14.43	44.25	32.03	15.56	39.88	29.33	16.82	37.11	27.90	18.49
		30°C	49.31	41.80	12.60	47.76	41.04	13.46	46.12	40.25	14.45	44.38	39.41	15.58	40.02	36.23	16.84	37.25	34.64	18.51
		33°C	49.60	49.60	12.62	48.18	48.18	13.49	46.78	46.78	14.50	45.38	45.38	15.66	41.26	41.26	16.96	38.86	38.86	18.69
	22°C	27°C	53.76	27.55	12.92	52.06	26.94	13.79	50.29	26.31	14.80	48.43	25.66	15.93	43.68	23.47	17.20	40.67	22.30	18.89
		30°C	53.84	34.05	12.92	52.14	33.38	13.80	50.38	32.67	14.81	48.52	31.92	15.94	43.77	29.26	17.21	40.78	27.88	18.90
		33°C	53.99	39.68	12.93	52.30	38.97	13.81	50.53	38.23	14.82	48.67	37.46	15.96	43.91	34.45	17.23	40.92	32.96	18.92
		36°C	54.14	45.18	12.95	52.45	44.47	13.82	50.66	43.72	14.83	48.81	42.94	15.97	44.08	39.56	17.24	41.28	37.70	18.96
4500	16°C	21°C	45.54	32.29	12.33	44.08	31.60	13.18	42.50	30.84	14.16	40.84	30.00	15.27	36.76	27.36	16.52	34.12	25.86	18.18
		24°C	45.77	38.49	12.35	44.31	37.70	13.20	42.76	36.87	14.18	41.10	35.99	15.29	36.98	32.96	16.54	34.31	31.34	18.20
		27°C	46.09	44.62	12.37	44.72	43.66	13.22	43.33	42.53	14.22	41.93	41.20	15.36	38.02	37.55	16.64	35.67	35.33	18.34
		30°C	48.48	48.48	12.54	47.23	47.23	13.42	45.89	45.89	14.43	44.46	44.46	15.58	40.37	40.37	16.87	37.94	37.94	18.59
	19°C	24°C	50.00	30.48	12.65	48.42	29.83	13.50	46.72	29.15	14.50	44.92	28.43	15.62	40.45	26.01	16.88	37.61	24.71	18.55
		27°C	50.19	35.67	12.66	48.60	34.96	13.52	46.91	34.20	14.51	45.13	33.40	15.64	40.65	30.60	16.90	37.80	29.14	18.57
		30°C	50.41	43.76	12.68	48.80	42.98	13.54	47.10	42.17	14.53	45.33	41.33	15.66	40.86	37.99	16.92	38.11	36.13	18.61
		33°C	51.20	51.20	12.73	49.90	49.90	13.62	48.51	48.51	14.65	47.05	47.05	15.81	42.76	42.76	17.11	40.25	40.25	18.84
	22°C	27°C	54.80	28.61	12.99	53.04	28.00	13.87	51.21	27.37	14.88	49.28	26.71	16.01	44.42	24.47	17.28	41.35	23.28	18.96
		30°C	54.93	35.53	13.00	53.18	34.82	13.88	51.35	34.09	14.89	49.43	33.32	16.03	44.57	30.56	17.29	41.51	29.13	18.98
		33°C	55.14	41.56	13.02	53.39	40.83	13.90	51.55	40.08	14.91	49.62	39.29	16.05	44.75	36.16	17.31	41.68	34.63	19.00
		36°C	55.33	47.51	13.03	53.57	46.78	13.92	51.77	45.94	14.93	49.97	44.97	16.08	45.30	41.57	17.37	42.59	39.64	19.11
4950	16°C	21°C	46.34	33.17	12.39	44.83	32.40	13.23	43.22	31.58	14.21	41.53	30.71	15.33	37.35	28.00	16.57	34.65	26.47	18.24
		24°C	46.64	39.52	12.41	45.12	38.73	13.26	43.52	37.89	14.24	41.81	37.00	15.35	37.60	33.89	16.60	34.88	32.26	18.26
		27°C	47.29	46.06	12.45	45.98	45.31	13.32	44.62	44.42	14.33	43.17	43.17	15.47	39.13	39.13	16.75	36.69	36.69	18.45
		30°C	50.04	50.04	12.65	48.72	48.72	13.53	47.32	47.32	14.55	45.82	45.82	15.70	41.58	41.58	16.99	39.06	39.06	18.71
	19°C	24°C	50.83	31.89	12.71	49.19	31.24	13.57	47.45	30.55	14.56	45.60	29.80	15.68	41.06	27.23	16.93	38.15	25.80	18.61
		27°C	51.09	37.33	12.72	49.45	36.60	13.59	47.70	35.81	14.58	45.87	34.99	15.70	41.30	32.08	16.96	38.38	30.57	18.63
		30°C	51.36	46.00	12.74	49.68	45.20	13.61	47.97	44.35	14.60	46.18	43.40	15.73	41.73	39.68	17.01	39.06	37.47	18.71
		33°C	52.86	52.86	12.85	51.49	51.49	13.75	50.05	50.05	14.78	48.52	48.52	15.94	44.08	44.08	17.24	41.46	41.46	18.98
	22°C	27°C	55.67	29.93	13.06	53.87	29.32	13.94	51.97	28.68	14.94	50.00	28.02	16.08	45.06	25.70	17.34	41.92	24.45	19.02
		30°C	55.85	37.22	13.07	54.06	36.49	13.95	52.18	35.73	14.96	50.21	34.93	16.10	45.26	32.05	17.36	42.13	30.58	19.05
		33°C	56.12	43.71	13.09	54.31	42.97	13.97	52.42	42.19	14.98	50.43	41.38	16.12	45.45	38.11	17.39	42.31	36.52	19.07
		36°C	56.40	50.06	13.11	54.71	49.14	14.00	52.99	48.05	15.03	51.27	46.80	16.20	46.61	43.03	17.51	43.91	40.86	19.26

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB200ER2 ~ MMC100ER x 2

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
5760	16°C	21°C	55.60	39.74	15.59	53.85	38.87	16.66	51.97	37.94	17.90	49.96	36.95	19.32	44.96	33.73	20.90	41.76	31.91	23.01
		24°C	55.82	47.34	15.60	54.06	46.36	16.68	52.19	45.32	17.92	50.20	44.21	19.34	45.20	40.47	20.92	41.98	38.45	23.04
		27°C	56.03	54.49	15.62	54.32	53.48	16.70	52.49	52.37	17.94	50.63	50.63	19.38	45.83	45.83	20.99	43.01	43.01	23.15
		30°C	58.25	58.25	15.77	56.78	56.78	16.88	55.20	55.20	18.17	53.51	53.51	19.63	48.61	48.61	21.26	45.71	45.71	23.44
	19°C	24°C	61.09	37.55	15.98	59.20	36.73	17.07	57.16	35.86	18.33	55.00	34.95	19.76	49.55	31.95	21.35	46.07	30.32	23.48
		27°C	61.25	43.86	15.99	59.34	42.97	17.08	57.32	42.01	18.34	55.17	41.01	19.77	49.73	37.56	21.37	46.27	35.73	23.50
		30°C	61.49	53.53	16.01	59.55	52.56	17.10	57.50	51.54	18.36	55.34	50.46	19.79	49.90	46.39	21.39	46.45	44.36	23.52
		33°C	61.84	61.84	16.03	60.08	60.08	17.14	58.33	58.33	18.43	56.58	56.58	19.90	51.45	51.45	21.55	48.45	48.45	23.75
	22°C	27°C	67.03	35.28	16.41	64.91	34.50	17.53	62.71	33.69	18.80	60.38	32.85	20.25	54.46	30.06	21.86	50.71	28.55	24.00
		30°C	67.12	43.60	16.42	65.01	42.74	17.53	62.82	41.84	18.81	60.50	40.87	20.26	54.58	37.47	21.87	50.84	35.70	24.01
		33°C	67.31	50.81	16.44	65.21	49.90	17.55	63.01	48.96	18.83	60.69	47.97	20.28	54.75	44.12	21.89	51.02	42.21	24.04
		36°C	67.50	57.86	16.45	65.40	56.94	17.57	63.17	55.98	18.85	60.86	54.99	20.29	54.97	50.66	21.91	51.46	48.28	24.09
6400	16°C	21°C	56.78	41.34	15.67	54.96	40.46	16.74	53.00	39.50	17.99	50.93	38.42	19.40	45.83	35.04	20.98	42.54	33.12	23.09
		24°C	57.07	49.28	15.69	55.25	48.28	16.77	53.31	47.22	18.01	51.24	46.09	19.43	46.11	42.21	21.01	42.78	40.13	23.13
		27°C	57.47	57.14	15.72	55.76	55.76	16.80	54.02	54.02	18.07	52.28	52.28	19.52	47.41	47.41	21.14	44.47	44.47	23.31
		30°C	60.45	60.45	15.93	58.89	58.89	17.05	57.22	57.22	18.33	55.44	55.44	19.80	50.33	50.33	21.43	47.30	47.30	23.62
	19°C	24°C	62.34	39.03	16.07	60.37	38.20	17.16	58.25	37.33	18.42	56.01	36.41	19.85	50.43	33.31	21.44	46.90	31.64	23.57
		27°C	62.57	45.68	16.09	60.60	44.76	17.18	58.49	43.79	18.44	56.27	42.77	19.87	50.69	39.19	21.47	47.14	37.32	23.59
		30°C	62.86	56.03	16.11	60.85	55.04	17.20	58.73	54.00	18.47	56.52	52.92	19.90	50.95	48.64	21.50	47.52	46.26	23.64
		33°C	63.84	63.84	16.18	62.21	62.21	17.31	60.49	60.49	18.61	58.66	58.66	20.09	53.32	53.32	21.74	50.18	50.18	23.94
	22°C	27°C	68.32	36.64	16.51	66.13	35.86	17.62	63.85	35.05	18.90	61.44	34.21	20.35	55.39	31.33	21.95	51.56	29.81	24.09
		30°C	68.49	45.50	16.52	66.30	44.59	17.64	64.03	43.65	18.92	61.63	42.66	20.36	55.57	39.13	21.97	51.76	37.30	24.11
		33°C	68.75	53.21	16.54	66.57	52.29	17.66	64.28	51.32	18.94	61.86	50.31	20.39	55.79	46.30	22.00	51.96	44.34	24.14
		36°C	68.99	60.84	16.56	66.80	59.90	17.68	64.55	58.83	18.97	62.31	57.59	20.43	56.48	53.23	22.07	53.11	50.76	24.28
7040	16°C	21°C	57.78	42.47	15.74	55.89	41.49	16.82	53.89	40.44	18.06	51.78	39.33	19.48	46.57	35.86	21.06	43.20	33.89	23.17
		24°C	58.16	50.61	15.77	56.26	49.59	16.84	54.26	48.52	18.09	52.13	47.38	19.51	46.88	43.40	21.09	43.50	41.31	23.20
		27°C	58.97	58.97	15.82	57.33	57.33	16.93	55.64	55.64	18.20	53.83	53.83	19.65	48.79	48.79	21.28	45.75	45.75	23.45
		30°C	62.39	62.39	16.07	60.74	60.74	17.19	58.99	58.99	18.48	57.13	57.13	19.95	51.85	51.85	21.59	48.70	48.70	23.77
	19°C	24°C	63.38	40.84	16.15	61.34	40.01	17.24	59.16	39.12	18.50	56.86	38.16	19.93	51.19	34.87	21.52	47.56	33.04	23.64
		27°C	63.70	47.81	16.17	61.66	46.86	17.26	59.48	45.85	18.53	57.19	44.80	19.95	51.49	41.08	21.55	47.85	39.14	23.68
		30°C	64.03	58.91	16.19	61.94	57.88	17.29	59.81	56.80	18.56	57.58	55.57	19.99	52.03	50.81	21.61	48.71	47.98	23.78
		33°C	65.91	65.91	16.33	64.21	64.21	17.47	62.41	62.41	18.78	60.49	60.49	20.26	54.96	54.96	21.91	51.70	51.70	24.11
	22°C	27°C	69.41	38.32	16.59	67.16	37.54	17.71	64.80	36.72	18.98	62.34	35.89	20.43	56.18	32.91	22.03	52.27	31.31	24.17
		30°C	69.64	47.66	16.61	67.40	46.73	17.73	65.06	45.75	19.01	62.60	44.73	20.45	56.43	41.04	22.06	52.53	39.15	24.20
		33°C	69.97	55.98	16.64	67.71	55.02	17.75	65.36	54.03	19.04	62.88	52.99	20.48	56.67	48.80	22.09	52.76	46.77	24.24
		36°C	70.32	64.11	16.66	68.21	62.92	17.79	66.07	61.54	19.10	63.93	59.93	20.58	58.12	55.11	22.24	54.75	52.33	24.47

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R22
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB250ER2 ~ MMC125ER x 2

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
7200	16°C	21°C	67.20	48.03	18.32	65.07	46.97	19.58	62.81	45.85	21.04	60.38	44.66	22.70	54.33	40.77	24.57	50.47	38.57	27.05
		24°C	67.46	57.21	18.34	65.33	56.02	19.60	63.07	54.76	21.06	60.66	53.43	22.73	54.62	48.90	24.59	50.73	46.47	27.08
		27°C	67.71	65.85	18.36	65.64	64.62	19.62	63.44	63.29	21.09	61.19	61.19	22.77	55.39	55.39	24.67	51.98	51.98	27.21
		30°C	70.39	70.39	18.54	68.62	68.62	19.84	66.71	66.71	21.35	64.67	64.67	23.07	58.74	58.74	24.99	55.24	55.24	27.55
	19°C	24°C	73.83	45.37	18.78	71.54	44.39	20.06	69.08	43.34	21.54	66.47	42.24	23.22	59.88	38.61	25.10	55.67	36.64	27.60
		27°C	74.02	53.00	18.79	71.71	51.92	20.08	69.27	50.77	21.56	66.67	49.56	23.24	60.09	45.39	25.12	55.91	43.18	27.62
		30°C	74.30	64.68	18.81	71.96	63.51	20.10	69.49	62.28	21.58	66.87	60.98	23.26	60.30	56.06	25.14	56.13	53.60	27.65
		33°C	74.74	74.74	18.84	72.60	72.60	20.14	70.49	70.49	21.66	68.37	68.37	23.39	62.17	62.17	25.33	58.55	58.55	27.91
	22°C	27°C	81.00	42.63	19.29	78.44	41.69	20.60	75.78	40.72	22.10	72.97	39.70	23.80	65.82	36.33	25.69	61.28	34.50	28.21
		30°C	81.12	52.69	19.30	78.56	51.65	20.61	75.92	50.56	22.11	73.11	49.39	23.81	65.95	45.28	25.70	61.44	43.14	28.22
		33°C	81.34	61.40	19.32	78.80	60.31	20.63	76.14	59.17	22.13	73.34	57.97	23.83	66.16	53.32	25.73	61.65	51.01	28.25
		36°C	81.57	69.92	19.33	79.03	68.81	20.65	76.34	67.65	22.15	73.55	66.45	23.85	66.43	61.22	25.75	62.19	58.34	28.31
8000	16°C	21°C	68.61	49.96	18.42	66.41	48.90	19.68	64.04	47.73	21.14	61.54	46.43	22.80	55.39	42.35	24.66	51.40	40.02	27.14
		24°C	68.97	59.56	18.44	66.77	58.35	19.71	64.43	57.06	21.17	61.92	55.69	22.84	55.73	51.01	24.70	51.70	48.50	27.18
		27°C	69.45	69.05	18.47	67.39	67.39	19.75	65.28	65.28	21.24	63.17	63.17	22.94	57.29	57.29	24.85	53.74	53.74	27.39
		30°C	73.05	73.05	18.73	71.17	71.17	20.03	69.15	69.15	21.55	67.00	67.00	23.27	60.83	60.83	25.19	57.16	57.16	27.76
	19°C	24°C	75.33	47.16	18.89	72.95	46.17	20.17	70.39	45.11	21.65	67.68	44.00	23.33	60.95	40.25	25.20	56.67	38.23	27.70
		27°C	75.62	55.20	18.91	73.23	54.09	20.19	70.69	52.92	21.67	68.00	51.68	23.35	61.25	47.36	25.23	56.96	45.10	27.73
		30°C	75.96	67.71	18.93	73.54	66.52	20.22	70.97	65.26	21.70	68.30	63.96	23.38	61.57	58.78	25.27	57.42	55.91	27.79
		33°C	77.15	77.15	19.01	75.18	75.18	20.34	73.10	73.10	21.88	70.89	70.89	23.61	64.43	64.43	25.55	60.64	60.64	28.14
	22°C	27°C	82.56	44.28	19.40	79.92	43.33	20.71	77.16	42.36	22.22	74.25	41.34	23.91	66.93	37.86	25.80	62.30	36.03	28.32
		30°C	82.76	54.99	19.42	80.13	53.89	20.73	77.38	52.75	22.23	74.47	51.56	23.93	67.16	47.28	25.82	62.54	45.07	28.34
		33°C	83.08	64.31	19.44	80.45	63.19	20.76	77.68	62.02	22.26	74.76	60.79	23.96	67.42	55.96	25.86	62.80	53.59	28.38
		36°C	83.37	73.52	19.47	80.72	72.39	20.78	78.00	71.10	22.29	75.30	69.59	24.01	68.26	64.33	25.94	64.18	61.34	28.53
8800	16°C	21°C	69.83	51.32	18.50	67.54	50.13	19.76	65.12	48.87	21.23	62.57	47.53	22.89	56.28	43.33	24.75	52.20	40.96	27.23
		24°C	70.28	61.16	18.53	67.99	59.93	19.80	65.57	58.63	21.26	63.00	57.25	22.93	56.65	52.45	24.79	52.56	49.93	27.27
		27°C	71.26	71.26	18.60	69.28	69.28	19.89	67.24	67.24	21.39	65.05	65.05	23.10	58.97	58.97	25.01	55.29	55.29	27.56
		30°C	75.40	75.40	18.89	73.40	73.40	20.21	71.29	71.29	21.73	69.04	69.04	23.45	62.66	62.66	25.37	58.85	58.85	27.94
	19°C	24°C	76.59	49.36	18.98	74.12	48.34	20.26	71.49	47.27	21.74	68.71	46.12	23.42	61.87	42.14	25.29	57.48	39.93	27.79
		27°C	76.98	57.77	19.00	74.51	56.63	20.29	71.87	55.41	21.77	69.11	54.14	23.45	62.22	49.64	25.33	57.82	47.30	27.83
		30°C	77.38	71.19	19.03	74.86	69.95	20.32	72.28	68.64	21.81	69.58	67.16	23.50	62.87	61.40	25.40	58.86	57.98	27.95
		33°C	79.65	79.65	19.20	77.59	77.59	20.53	75.42	75.42	22.07	73.10	73.10	23.81	66.41	66.41	25.75	62.48	62.48	28.34
	22°C	27°C	83.88	46.31	19.50	81.16	45.37	20.81	78.31	44.38	22.31	75.33	43.37	24.01	67.89	39.77	25.90	63.16	37.84	28.41
		30°C	84.16	57.60	19.52	81.45	56.47	20.84	78.63	55.29	22.34	75.65	54.05	24.04	68.19	49.60	25.93	63.47	47.32	28.45
		33°C	84.56	67.64	19.55	81.83	66.49	20.87	78.98	65.29	22.37	75.99	64.04	24.07	68.48	58.97	25.97	63.75	56.52	28.49
		36°C	84.98	77.47	19.58	82.43	76.04	20.91	79.84	74.36	22.45	77.26	72.42	24.19	70.23	66.59	26.14	66.17	63.24	28.76

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. [ ] shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB300ER2 ~ MMC150ER x 2

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
8100	16°C	21°C	86.88	58.83	24.04	84.13	57.53	25.69	81.20	56.16	27.61	78.06	54.70	29.79	70.25	49.94	32.23	65.26	47.24	35.49
		24°C	87.22	70.08	24.06	84.47	68.62	25.72	81.55	67.08	27.64	78.43	65.44	29.82	70.62	59.90	32.27	65.59	56.92	35.53
		27°C	87.54	80.66	24.09	84.87	79.16	25.75	82.02	77.53	27.67	79.11	75.52	29.88	71.61	68.78	32.37	67.20	64.60	35.70
		30°C	91.01	91.01	24.33	88.72	88.72	26.04	86.25	86.25	28.02	83.61	83.61	30.27	75.95	75.95	32.79	71.42	71.42	36.15
	19°C	24°C	95.46	55.58	24.64	92.49	54.37	26.32	89.31	53.09	28.26	85.94	51.73	30.47	77.42	47.29	32.93	71.98	44.88	36.21
		27°C	95.70	64.92	24.66	92.72	63.60	26.34	89.56	62.19	28.29	86.20	60.71	30.49	77.70	55.60	32.96	72.29	52.89	36.24
		30°C	96.07	79.23	24.69	93.04	77.79	26.37	89.85	76.29	28.32	86.46	74.70	30.53	77.96	68.67	32.99	72.58	65.66	36.28
		33°C	96.63	96.63	24.72	93.87	93.87	26.43	91.13	91.13	28.42	88.40	88.40	30.69	80.39	80.39	33.23	75.71	75.71	36.62
	22°C	27°C	104.73	52.22	25.31	101.42	51.06	27.03	97.98	49.88	29.00	94.35	48.63	31.22	85.10	44.49	33.71	79.23	42.26	37.01
		30°C	104.88	64.54	25.32	101.58	63.27	27.04	98.16	61.93	29.01	94.53	60.50	31.24	85.27	55.46	33.72	79.44	52.84	37.03
		33°C	105.17	75.21	25.35	101.89	73.87	27.07	98.45	72.47	29.04	94.82	71.01	31.27	85.55	65.31	33.76	79.71	62.48	37.07
		36°C	105.47	85.64	25.37	102.19	84.29	27.09	98.70	82.86	29.07	95.10	81.40	31.30	85.88	74.98	33.79	80.41	71.46	37.15
9000	16°C	21°C	88.71	61.20	24.17	85.87	59.89	25.82	82.81	58.46	27.74	79.57	56.87	29.92	71.61	51.87	32.36	66.46	49.02	35.62
		24°C	89.17	72.95	24.20	86.33	71.47	25.86	83.30	69.89	27.78	80.06	68.22	29.96	72.05	62.48	32.41	66.85	59.40	35.66
		27°C	89.79	84.57	24.24	87.13	82.76	25.92	84.40	80.61	27.87	81.68	78.10	30.10	74.07	71.18	32.60	69.49	66.97	35.94
		30°C	94.45	94.45	24.57	92.02	92.02	26.29	89.40	89.40	28.28	86.62	86.62	30.53	78.65	78.65	33.06	73.90	73.90	36.42
	19°C	24°C	97.40	57.77	24.78	94.32	56.55	26.46	91.01	55.25	28.41	87.51	53.89	30.61	78.80	49.31	33.07	73.27	46.83	36.35
		27°C	97.77	67.62	24.81	94.68	66.26	26.49	91.39	64.82	28.44	87.92	63.30	30.64	79.20	58.01	33.11	73.65	55.24	36.39
		30°C	98.21	82.94	24.84	95.08	81.48	26.53	91.76	79.93	28.48	88.31	78.34	30.68	79.61	72.00	33.15	74.24	68.48	36.46
		33°C	99.75	99.75	24.95	97.20	97.20	26.69	94.51	94.51	28.70	91.65	91.65	30.98	83.31	83.31	33.53	78.41	78.41	36.92
	22°C	27°C	106.75	54.23	25.46	103.33	53.08	27.18	99.77	51.89	29.15	96.00	50.63	31.38	86.54	46.38	33.86	80.55	44.13	37.16
		30°C	107.01	67.35	25.48	103.60	66.01	27.20	100.04	64.62	29.17	96.29	63.15	31.40	86.83	57.92	33.88	80.87	55.21	37.19
		33°C	107.42	78.77	25.51	104.02	77.40	27.24	100.43	75.96	29.21	96.66	74.47	31.44	87.18	68.54	33.93	81.19	65.64	37.23
		36°C	107.79	90.06	25.54	104.37	88.67	27.27	100.85	87.08	29.25	97.36	85.24	31.50	88.25	78.80	34.04	82.98	75.13	37.44
9900	16°C	21°C	90.28	62.86	24.28	87.33	61.41	25.93	84.20	59.86	27.85	80.91	58.21	30.03	72.77	53.08	32.47	67.50	50.17	35.74
		24°C	90.87	74.92	24.32	87.91	73.41	25.98	84.78	71.82	27.90	81.45	70.13	30.08	73.24	64.25	32.53	67.96	61.16	35.78
		27°C	92.14	87.32	24.40	89.57	85.88	26.10	86.94	84.20	28.07	84.11	82.29	30.31	76.24	74.81	32.82	71.48	70.50	36.16
		30°C	97.48	97.48	24.79	94.91	94.91	26.51	92.18	92.18	28.51	89.27	89.27	30.77	81.01	81.01	33.29	76.09	76.09	36.66
	19°C	24°C	99.03	60.46	24.90	95.83	59.22	26.58	92.43	57.90	28.53	88.84	56.49	30.73	79.99	51.62	33.18	74.32	48.91	36.46
		27°C	99.53	70.77	24.94	96.34	69.37	26.62	92.93	67.87	28.57	89.36	66.32	30.77	80.45	60.81	33.24	74.76	57.94	36.52
		30°C	100.05	87.20	24.97	96.78	85.68	26.67	93.46	84.07	28.62	89.97	82.26	30.83	81.29	75.21	33.32	76.10	71.02	36.67
		33°C	102.99	102.99	25.19	100.32	100.32	26.94	97.51	97.51	28.96	94.52	94.52	31.24	85.87	85.87	33.79	80.78	80.78	37.19
	22°C	27°C	108.45	56.73	25.59	104.94	55.57	27.31	101.25	54.36	29.28	97.40	53.12	31.50	87.78	48.71	33.98	81.66	46.35	37.28
		30°C	108.81	70.55	25.62	105.31	69.17	27.34	101.66	67.72	29.31	97.82	66.21	31.54	88.17	60.75	34.02	82.07	57.96	37.33
		33°C	109.33	82.86	25.66	105.80	81.44	27.38	102.12	79.97	29.36	98.24	78.44	31.59	88.54	72.23	34.07	82.43	69.23	37.38
		36°C	109.87	94.89	25.70	106.58	93.14	27.44	103.23	91.09	29.45	99.89	88.71	31.74	90.80	81.57	34.31	85.55	77.46	37.73

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. [ ] shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R22
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB300ER3 ~ MMC100ER x 3

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
8100	16°C	21°C	83.41	59.62	23.31	80.77	58.31	24.91	77.96	56.91	26.77	74.95	55.43	28.88	67.44	50.61	31.25	62.65	47.87	34.41
		24°C	83.74	71.02	23.33	81.10	69.54	24.93	78.29	67.98	26.79	75.30	66.32	28.91	67.80	60.70	31.28	62.97	57.68	34.45
		27°C	84.05	81.74	23.36	81.48	80.22	24.96	78.75	78.57	26.83	75.95	75.95	28.97	68.75	68.75	31.38	64.52	64.52	34.61
		30°C	87.38	87.38	23.59	85.18	85.18	25.24	82.81	82.81	27.16	80.27	80.27	29.35	72.92	72.92	31.79	68.56	68.56	35.05
	19°C	24°C	91.65	56.32	23.89	88.80	55.10	25.52	85.75	53.80	27.40	82.51	52.43	29.54	74.33	47.92	31.93	69.11	45.48	35.11
		27°C	91.88	65.80	23.91	89.02	64.45	25.54	85.98	63.03	27.42	82.76	61.52	29.56	74.59	56.34	31.95	69.40	53.60	35.14
		30°C	92.23	80.29	23.93	89.33	78.84	25.57	86.26	77.31	27.46	83.01	75.70	29.60	74.85	69.59	31.99	69.68	66.54	35.17
		33°C	92.77	92.77	23.97	90.12	90.12	25.63	87.50	87.50	27.55	84.87	84.87	29.76	77.18	77.18	32.22	72.68	72.68	35.51
	22°C	27°C	100.55	52.92	24.54	97.37	51.75	26.20	94.07	50.54	28.12	90.58	49.29	30.27	81.70	45.09	32.68	76.06	42.83	35.89
		30°C	100.69	65.41	24.55	97.52	64.11	26.22	94.24	62.76	28.13	90.76	61.31	30.29	81.87	56.21	32.70	76.27	53.55	35.90
		33°C	100.97	76.22	24.57	97.82	74.86	26.24	94.52	73.44	28.16	91.03	71.96	30.32	82.13	66.18	32.73	76.53	63.32	35.94
		36°C	101.26	86.79	24.60	98.11	85.42	26.26	94.76	83.98	28.18	91.30	82.49	30.34	82.46	75.99	32.76	77.20	72.42	36.01
9000	16°C	21°C	85.17	62.02	23.43	82.44	60.70	25.03	79.50	59.25	26.89	76.40	57.64	29.01	68.75	52.57	31.38	63.81	49.68	34.53
		24°C	85.61	73.93	23.46	82.88	72.43	25.07	79.97	70.83	26.93	76.86	69.13	29.05	69.17	63.31	31.42	64.18	60.20	34.58
		27°C	86.21	85.71	23.50	83.65	83.65	25.13	81.03	81.03	27.02	78.42	78.42	29.18	71.12	71.12	31.61	66.71	66.71	34.85
		30°C	90.68	90.68	23.82	88.34	88.34	25.49	85.84	85.84	27.41	83.16	83.16	29.60	75.51	75.51	32.05	70.95	70.95	35.31
	19°C	24°C	93.51	58.54	24.03	90.56	57.31	25.66	87.37	55.99	27.54	84.02	54.61	29.68	75.66	49.97	32.06	70.35	47.46	35.24
		27°C	93.87	68.53	24.05	90.90	67.15	25.69	87.74	65.69	27.57	84.41	64.15	29.71	76.03	58.79	32.10	70.71	55.98	35.28
		30°C	94.29	84.05	24.08	91.28	82.57	25.72	88.10	81.01	27.61	84.78	79.39	29.75	76.43	72.97	32.14	71.28	69.40	35.35
		33°C	95.77	95.77	24.19	93.32	93.32	25.88	90.74	90.74	27.83	87.99	87.99	30.04	79.98	79.98	32.51	75.28	75.28	35.80
	22°C	27°C	102.49	54.96	24.69	99.21	53.79	26.35	95.78	52.58	28.26	92.16	51.31	30.42	83.09	47.00	32.82	77.34	44.72	36.02
		30°C	102.73	68.26	24.71	99.46	66.89	26.37	96.05	65.48	28.28	92.44	64.00	30.45	83.36	58.70	32.85	77.64	55.95	36.06
		33°C	103.13	79.82	24.74	99.86	78.44	26.41	96.42	76.98	28.32	92.80	75.47	30.48	83.70	69.46	32.89	77.95	66.52	36.10
		36°C	103.49	91.26	24.76	100.21	89.86	26.44	96.82	88.25	28.36	93.47	86.38	30.54	84.73	79.85	33.00	79.67	76.14	36.30
9900	16°C	21°C	86.68	63.71	23.54	83.84	62.23	25.14	80.84	60.66	27.00	77.68	58.99	29.12	69.86	53.79	31.48	64.80	50.84	34.65
		24°C	87.24	75.92	23.58	84.40	74.39	25.19	81.40	72.78	27.05	78.20	71.07	29.17	70.32	65.11	31.54	65.25	61.98	34.69
		27°C	88.46	88.46	23.66	86.00	86.00	25.31	83.46	83.46	27.22	80.75	80.75	29.39	73.20	73.20	31.82	68.63	68.63	35.06
		30°C	93.59	93.59	24.03	91.12	91.12	25.71	88.50	88.50	27.64	85.70	85.70	29.83	77.78	77.78	32.28	73.05	73.05	35.55
	19°C	24°C	95.07	61.27	24.14	92.01	60.01	25.77	88.74	58.68	27.66	85.30	57.25	29.79	76.80	52.31	32.17	71.35	49.57	35.35
		27°C	95.56	71.71	24.18	92.50	70.30	25.81	89.22	68.78	27.70	85.79	67.21	29.84	77.24	61.62	32.22	71.78	58.72	35.40
		30°C	96.06	88.37	24.21	92.92	86.83	25.85	89.73	85.20	27.74	86.38	83.36	29.89	78.05	76.22	32.31	73.07	71.97	35.55
		33°C	98.87	98.87	24.42	96.31	96.31	26.12	93.62	93.62	28.08	90.75	90.75	30.29	82.44	82.44	32.76	77.55	77.55	36.06
	22°C	27°C	104.12	57.49	24.81	100.75	56.31	26.48	97.21	55.08	28.39	93.51	53.83	30.54	84.27	49.37	32.95	78.40	46.97	36.14
		30°C	104.46	71.50	24.84	101.11	70.09	26.51	97.60	68.63	28.42	93.91	67.10	30.58	84.65	61.57	32.98	78.79	58.74	36.19
		33°C	104.96	83.97	24.87	101.58	82.54	26.55	98.04	81.05	28.46	94.32	79.49	30.63	85.01	73.20	33.03	79.14	70.16	36.24
		36°C	105.49	96.17	24.91	102.33	94.39	26.60	99.11	92.31	28.56	95.90	89.90	30.77	87.18	82.67	33.26	82.13	78.50	36.58

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB350ER3 ~ MMC100ER + MMC125ER x 2

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
9450	16°C	21°C	94.99	67.90	25.94	91.99	66.40	27.72	88.79	64.82	29.79	85.35	63.13	32.14	76.81	57.63	34.78	71.35	54.52	38.29
		24°C	95.36	80.88	25.96	92.36	79.19	27.75	89.16	77.41	29.82	85.75	75.53	32.18	77.22	69.13	34.82	71.71	65.69	38.33
		27°C	95.72	93.09	25.99	92.80	91.36	27.78	89.68	89.47	29.86	86.50	86.50	32.24	78.30	78.30	34.92	73.48	73.48	38.52
		30°C	99.51	99.51	26.25	97.01	97.01	28.09	94.30	94.30	30.23	91.42	91.42	32.66	83.04	83.04	35.38	78.08	78.08	39.01
	19°C	24°C	104.37	64.14	26.59	101.13	62.75	28.40	97.65	61.27	30.50	93.96	59.71	32.87	84.65	54.58	35.53	78.70	51.79	39.07
		27°C	104.64	74.93	26.61	101.38	73.40	28.42	97.92	71.78	30.52	94.25	70.06	32.90	84.95	64.17	35.56	79.04	61.04	39.10
		30°C	105.04	91.44	26.64	101.73	89.78	28.45	98.24	88.04	30.56	94.53	86.21	32.94	85.24	79.26	35.60	79.35	75.78	39.14
		33°C	105.65	105.65	26.68	102.64	102.64	28.52	99.64	99.64	30.67	96.65	96.65	33.11	87.89	87.89	35.86	82.78	82.78	39.52
	22°C	27°C	114.51	60.26	27.31	110.89	58.93	29.16	107.13	57.56	31.29	103.16	56.13	33.69	93.04	51.35	36.37	86.62	48.78	39.94
		30°C	114.67	74.49	27.32	111.07	73.02	29.18	107.32	71.48	31.30	103.36	69.82	33.71	93.24	64.01	36.39	86.86	60.98	39.96
		33°C	114.99	86.81	27.35	111.40	85.25	29.20	107.64	83.64	31.33	103.67	81.95	33.74	93.54	75.37	36.42	87.16	72.11	40.00
		36°C	115.32	98.84	27.37	111.73	97.28	29.23	107.92	95.64	31.36	103.98	93.94	33.77	93.90	86.54	36.46	87.92	82.47	40.08
10500	16°C	21°C	97.00	70.63	26.08	93.89	69.13	27.86	90.54	67.47	29.93	87.00	65.64	32.29	78.30	59.86	34.92	72.67	56.58	38.43
		24°C	97.50	84.20	26.11	94.39	82.48	27.90	91.08	80.67	29.97	87.54	78.73	32.33	78.78	72.11	34.97	73.09	68.56	38.48
		27°C	98.18	97.61	26.16	95.27	95.27	27.96	92.29	92.29	30.07	89.31	89.31	32.48	80.99	80.99	35.18	75.98	75.98	38.78
		30°C	103.27	103.27	26.51	100.61	100.61	28.36	97.75	97.75	30.51	94.71	94.71	32.94	85.99	85.99	35.67	80.81	80.81	39.30
	19°C	24°C	106.50	66.67	26.74	103.13	65.27	28.55	99.51	63.77	30.65	95.68	62.20	33.03	86.16	56.91	35.68	80.12	54.05	39.22
		27°C	106.90	78.04	26.77	103.52	76.47	28.59	99.93	74.81	30.69	96.13	73.06	33.06	86.59	66.95	35.72	80.53	63.75	39.26
		30°C	107.39	95.72	26.80	103.96	94.03	28.63	100.33	92.25	30.73	96.55	90.41	33.11	87.04	83.10	35.77	81.17	79.04	39.34
		33°C	109.07	109.07	26.92	106.28	106.28	28.80	103.34	103.34	30.97	100.21	100.21	33.43	91.09	91.09	36.18	85.73	85.73	39.84
	22°C	27°C	116.72	62.59	27.47	112.98	61.26	29.33	109.08	59.89	31.45	104.96	58.44	33.85	94.62	53.53	36.53	88.08	50.93	40.09
		30°C	117.00	77.74	27.49	113.27	76.18	29.35	109.39	74.57	31.48	105.28	72.88	33.88	94.94	66.85	36.56	88.42	63.72	40.13
		33°C	117.45	90.91	27.53	113.73	89.33	29.39	109.81	87.67	31.52	105.69	85.94	33.93	95.32	79.10	36.61	88.77	75.76	40.17
		36°C	117.86	103.94	27.56	114.12	102.33	29.42	110.27	100.51	31.56	106.45	98.38	33.99	96.49	90.94	36.72	90.73	86.71	40.40
11550	16°C	21°C	98.71	72.55	26.19	95.48	70.87	27.98	92.06	69.08	30.05	88.46	67.19	32.41	79.56	61.26	35.04	73.80	57.90	38.56
		24°C	99.35	86.46	26.24	96.12	84.72	28.03	92.70	82.89	30.10	89.06	80.94	32.46	80.08	74.15	35.10	74.31	70.58	38.61
		27°C	100.74	100.74	26.33	97.94	97.94	28.16	95.05	95.05	30.29	91.96	91.96	32.71	83.36	83.36	35.41	78.16	78.16	39.01
		30°C	106.59	106.59	26.74	103.77	103.77	28.61	100.78	100.78	30.76	97.60	97.60	33.20	88.57	88.57	35.92	83.19	83.19	39.56
	19°C	24°C	108.27	69.77	26.87	104.78	68.34	28.68	101.07	66.83	30.78	97.14	65.20	33.16	87.46	59.57	35.80	81.26	56.45	39.34
		27°C	108.82	81.67	26.90	105.34	80.06	28.73	101.61	78.34	30.83	97.70	76.54	33.20	87.96	70.18	35.86	81.74	66.87	39.40
		30°C	109.39	100.64	26.95	105.82	98.89	28.77	102.18	97.03	30.88	98.37	94.94	33.26	88.88	86.80	35.96	83.21	81.97	39.56
		33°C	112.60	112.60	27.18	109.69	109.69	29.07	106.62	106.62	31.25	103.34	103.34	33.71	93.89	93.89	36.46	88.32	88.32	40.13
	22°C	27°C	118.58	65.47	27.61	114.74	64.13	29.46	110.70	62.73	31.59	106.50	61.31	33.99	95.97	56.22	36.66	89.29	53.50	40.22
		30°C	118.97	81.43	27.64	115.15	79.83	29.50	111.15	78.16	31.63	106.95	76.41	34.03	96.40	70.12	36.71	89.73	66.89	40.27
		33°C	119.54	95.63	27.68	115.68	94.00	29.54	111.65	92.30	31.68	107.42	90.53	34.08	96.81	83.36	36.76	90.13	79.90	40.33
		36°C	120.13	109.52	27.73	116.53	107.49	29.61	112.87	105.12	31.78	109.22	102.39	34.25	99.28	94.14	37.02	93.54	89.40	40.71

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R22
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB400ER4 ~ MMC100ER x 4

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
10800	16°C	21°C	111.21	79.49	30.68	107.69	77.74	32.79	103.94	75.88	35.24	99.92	73.90	38.03	89.92	67.47	41.14	83.53	63.83	45.30
		24°C	111.64	94.68	30.71	108.12	92.71	32.83	104.38	90.63	35.28	100.39	88.42	38.07	90.40	80.93	41.19	83.95	76.90	45.35
		27°C	112.06	108.98	30.75	108.64	106.95	32.87	104.99	104.75	35.32	101.26	101.26	38.14	91.66	91.66	41.31	86.02	86.02	45.57
		30°C	116.50	116.50	31.05	113.56	113.56	33.23	110.40	110.40	35.76	107.02	107.02	38.64	97.22	97.22	41.85	91.41	91.41	46.15
	19°C	24°C	122.19	75.09	31.46	118.39	73.46	33.60	114.32	71.73	36.08	110.01	69.90	38.89	99.10	63.90	42.03	92.14	60.63	46.22
		27°C	122.50	87.72	31.48	118.68	85.93	33.62	114.64	84.03	36.11	110.34	82.02	38.92	99.45	75.12	42.07	92.53	71.46	46.26
		30°C	122.97	107.05	31.51	119.10	105.11	33.66	115.01	103.07	36.15	110.67	100.93	38.97	99.79	92.79	42.11	92.90	88.71	46.31
		33°C	123.69	123.69	31.56	120.16	120.16	33.74	116.65	116.65	36.28	113.15	113.15	39.17	102.90	102.90	42.42	96.91	96.91	46.75
	22°C	27°C	134.06	70.55	32.31	129.82	68.99	34.50	125.41	67.39	37.02	120.77	65.71	39.86	108.93	60.12	43.03	101.41	57.11	47.25
		30°C	134.25	87.21	32.32	130.02	85.48	34.51	125.64	83.68	37.03	121.00	81.74	39.88	109.15	74.94	43.05	101.68	71.39	47.27
		33°C	134.62	101.62	32.35	130.42	99.81	34.55	126.02	97.92	37.07	121.37	95.94	39.92	109.50	88.24	43.09	102.03	84.43	47.31
		36°C	135.01	115.72	32.38	130.80	113.89	34.58	126.34	111.96	37.10	121.73	109.98	39.95	109.93	101.31	43.13	102.93	96.55	47.42
12000	16°C	21°C	113.55	82.69	30.85	109.91	80.93	32.96	105.99	78.99	35.41	101.85	76.84	38.19	91.66	70.08	41.31	85.07	66.24	45.46
		24°C	114.14	98.57	30.89	110.51	96.56	33.00	106.62	94.44	35.46	102.48	92.17	38.25	92.23	84.41	41.36	85.57	80.26	45.52
		27°C	114.94	114.27	30.94	111.53	111.53	33.08	108.04	108.04	35.57	104.55	104.55	38.42	94.82	94.82	41.62	88.95	88.95	45.88
		30°C	120.89	120.89	31.36	117.78	117.78	33.55	114.44	114.44	36.09	110.88	110.88	38.97	100.67	100.67	42.20	94.60	94.60	46.49
	19°C	24°C	124.68	78.05	31.63	120.73	76.41	33.78	116.49	74.66	36.26	112.02	72.81	39.07	100.87	66.62	42.21	93.79	63.28	46.39
		27°C	125.15	91.36	31.67	121.20	89.52	33.82	116.99	87.58	36.30	112.54	85.53	39.12	101.37	78.38	42.26	94.27	74.63	46.45
		30°C	125.72	112.06	31.71	121.70	110.08	33.86	117.45	108.00	36.35	113.03	105.85	39.17	101.90	97.29	42.32	95.03	92.53	46.54
		33°C	127.68	127.68	31.84	124.42	124.42	34.07	120.98	120.98	36.64	117.32	117.32	39.55	106.63	106.63	42.80	100.37	100.37	47.13
	22°C	27°C	136.65	73.28	32.50	132.27	71.72	34.69	127.70	70.11	37.21	122.88	68.41	40.05	110.78	62.66	43.21	103.11	59.63	47.43
		30°C	136.97	91.01	32.53	132.61	89.19	34.72	128.06	87.30	37.24	123.25	85.33	40.08	111.14	78.26	43.25	103.51	74.60	47.47
		33°C	137.50	106.43	32.57	133.14	104.58	34.77	128.55	102.64	37.29	123.73	100.61	40.13	111.59	92.61	43.30	103.93	88.69	47.53
		36°C	137.98	121.68	32.60	133.60	119.80	34.81	129.09	117.66	37.34	124.62	115.17	40.21	112.96	106.47	43.44	106.21	101.51	47.79
13200	16°C	21°C	115.56	84.94	30.99	111.78	82.97	33.10	107.78	80.88	35.55	103.56	78.66	38.34	93.14	71.71	41.45	86.40	67.78	45.61
		24°C	116.31	101.22	31.04	112.52	99.18	33.16	108.52	97.04	35.61	104.26	94.76	38.40	93.75	86.81	41.52	86.99	82.63	45.67
		27°C	117.94	117.94	31.15	114.65	114.65	33.32	111.28	111.28	35.83	107.66	107.66	38.69	97.59	97.59	41.89	91.50	91.50	46.15
		30°C	124.78	124.78	31.64	121.48	121.48	33.84	117.99	117.99	36.39	114.26	114.26	39.27	103.69	103.69	42.50	97.39	97.39	46.80
	19°C	24°C	126.76	81.68	31.78	122.67	80.01	33.93	118.32	78.23	36.41	113.72	76.32	39.22	102.39	69.74	42.36	95.13	66.08	46.54
		27°C	127.40	95.61	31.83	123.32	93.72	33.98	118.95	91.71	36.47	114.38	89.61	39.28	102.98	82.16	42.43	95.70	78.28	46.61
		30°C	128.07	117.82	31.88	123.89	115.77	34.04	119.63	113.59	36.53	115.16	111.15	39.35	104.06	101.62	42.54	97.42	95.96	46.81
		33°C	131.83	131.83	32.15	128.41	128.41	34.39	124.82	124.82	36.96	120.99	120.99	39.88	109.92	109.92	43.13	103.40	103.40	47.47
	22°C	27°C	138.82	76.65	32.66	134.32	75.08	34.86	129.60	73.44	37.37	124.68	71.77	40.21	112.36	65.82	43.37	104.53	62.63	47.59
		30°C	139.28	95.33	32.70	134.80	93.45	34.90	130.13	91.50	37.42	125.21	89.45	40.26	112.86	82.09	43.43	105.05	78.31	47.64
		33°C	139.94	111.95	32.75	135.43	110.04	34.95	130.71	108.06	37.47	125.76	105.98	40.32	113.34	97.59	43.49	105.51	93.54	47.71
		36°C	140.64	128.21	32.80	136.43	125.84	35.03	132.13	123.07	37.60	127.86	119.86	40.52	116.23	110.21	43.79	109.51	104.66	48.16

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB450ER4 ~ MMC150ER x 3

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
12150	16°C	21°C	130.33	88.25	37.09	126.21	86.31	39.64	121.81	84.25	42.60	117.10	82.05	45.97	105.38	74.91	49.74	97.89	70.86	54.76
		24°C	130.84	105.12	37.13	126.71	102.93	39.68	122.33	100.62	42.65	117.66	98.17	46.02	105.94	89.85	49.79	98.39	85.38	54.82
		27°C	131.32	121.00	37.17	127.32	118.75	39.73	123.04	116.30	42.70	118.67	113.30	46.11	107.42	103.17	49.94	100.82	96.90	55.09
		30°C	136.53	136.53	37.54	133.09	133.09	40.18	129.38	129.38	43.23	125.42	125.42	46.71	113.94	113.94	50.60	107.13	107.13	55.79
	19°C	24°C	143.20	83.37	38.03	138.75	81.56	40.62	133.98	79.63	43.61	128.92	77.61	47.01	116.14	70.94	50.81	107.98	67.32	55.88
		27°C	143.56	97.39	38.05	139.09	95.41	40.65	134.35	93.29	43.65	129.31	91.07	47.05	116.55	83.40	50.86	108.44	79.34	55.92
		30°C	144.12	118.86	38.09	139.57	116.70	40.69	134.78	114.44	43.70	129.70	112.06	47.10	116.95	103.02	50.91	108.87	98.49	55.98
		33°C	144.95	144.95	38.15	140.82	140.82	40.79	136.71	136.71	43.86	132.61	132.61	47.36	120.59	120.59	51.28	113.57	113.57	56.51
	22°C	27°C	157.11	78.33	39.06	152.14	76.60	41.71	146.98	74.82	44.75	141.53	72.95	48.18	127.65	66.75	52.01	118.85	63.40	57.12
		30°C	157.33	96.82	39.08	152.38	94.91	41.72	147.25	92.90	44.77	141.81	90.76	48.21	127.92	83.20	52.04	119.17	79.26	57.14
		33°C	157.77	112.83	39.11	152.84	110.81	41.76	147.68	108.71	44.81	142.24	106.52	48.25	128.33	97.97	52.09	119.58	93.73	57.20
		36°C	158.22	128.48	39.15	153.29	126.44	41.80	148.06	124.31	44.85	142.66	122.10	48.30	128.84	112.48	52.14	120.62	107.20	57.32
13500	16°C	21°C	133.08	91.80	37.29	128.81	89.85	39.84	124.22	87.70	42.80	119.37	85.32	46.17	107.43	77.81	49.94	99.70	73.54	54.96
		24°C	133.77	109.44	37.35	129.51	107.21	39.90	124.96	104.85	42.86	120.10	102.34	46.24	108.08	93.72	50.01	100.28	89.11	55.03
		27°C	134.70	126.87	37.41	130.70	124.15	39.99	126.62	120.93	43.00	122.53	117.15	46.45	111.12	106.77	50.31	104.24	100.46	55.46
		30°C	141.68	141.68	37.91	138.04	138.04	40.56	134.12	134.12	43.63	129.94	129.94	47.11	117.98	117.98	51.01	110.87	110.87	56.21
	19°C	24°C	146.11	86.66	38.24	141.49	84.83	40.83	136.52	82.89	43.84	131.28	80.84	47.23	118.21	73.97	51.03	109.92	70.25	56.09
		27°C	146.67	101.44	38.28	142.03	99.40	40.88	137.10	97.23	43.88	131.89	94.96	47.29	118.80	87.02	51.09	110.48	82.86	56.15
		30°C	147.33	124.42	38.33	142.63	122.22	40.94	137.65	119.91	43.94	132.47	117.52	47.35	119.42	108.01	51.16	111.37	102.73	56.26
		33°C	149.64	149.64	38.50	145.82	145.82	41.19	141.78	141.78	44.29	137.49	137.49	47.81	124.97	124.97	51.74	117.62	117.62	56.98
	22°C	27°C	160.14	81.35	39.29	155.01	79.63	41.94	149.66	77.84	44.98	144.00	75.96	48.42	129.82	69.57	52.24	120.84	66.20	57.34
		30°C	160.52	101.04	39.32	155.41	99.02	41.97	150.08	96.93	45.02	144.44	94.73	48.46	130.25	86.88	52.29	121.31	82.82	57.39
		33°C	161.14	118.16	39.37	156.04	116.11	42.03	150.66	113.96	45.08	145.00	111.71	48.52	130.77	102.82	52.35	121.80	98.47	57.46
		36°C	161.70	135.10	39.42	156.57	133.01	42.08	151.29	130.64	45.13	146.05	127.87	48.61	132.39	118.20	52.52	124.48	112.71	57.77
14850	16°C	21°C	135.43	94.30	37.46	131.00	92.12	40.02	126.31	89.79	42.98	121.37	87.33	46.35	109.16	79.62	50.11	101.25	75.26	55.14
		24°C	136.31	112.38	37.53	131.87	110.12	40.08	127.18	107.74	43.05	122.19	105.20	46.42	109.87	96.38	50.19	101.95	91.74	55.21
		27°C	138.21	130.98	37.65	134.37	128.83	40.28	130.41	126.32	43.32	126.17	123.44	46.77	114.37	112.23	50.64	107.23	105.75	55.80
		30°C	146.24	146.24	38.25	142.37	142.37	40.91	138.28	138.28	43.99	133.91	133.91	47.48	121.52	121.52	51.38	114.14	114.14	56.57
	19°C	24°C	148.55	90.69	38.42	143.76	88.83	41.02	138.66	86.86	44.02	133.28	84.74	47.42	119.99	77.43	51.20	111.48	73.37	56.27
		27°C	149.31	106.16	38.48	144.53	104.06	41.08	139.40	101.82	44.09	134.04	99.49	47.49	120.69	91.22	51.29	112.15	86.91	56.35
		30°C	150.09	130.81	38.54	145.19	128.53	41.15	140.20	126.12	44.16	134.96	123.40	47.57	121.95	112.83	51.42	114.16	106.54	56.58
		33°C	154.49	154.49	38.87	150.49	150.49	41.57	146.28	146.28	44.69	141.79	141.79	48.21	128.82	128.82	52.14	121.18	121.18	57.39
	22°C	27°C	162.69	85.10	39.48	157.42	83.36	42.14	151.89	81.54	45.18	146.11	79.69	48.61	131.68	73.08	52.44	122.50	69.53	57.53
		30°C	163.22	105.84	39.53	157.98	103.76	42.19	152.50	101.59	45.23	146.74	99.32	48.67	132.26	91.14	52.50	123.11	86.94	57.60
		33°C	164.01	124.30	39.59	158.71	122.18	42.25	153.18	119.97	45.30	147.38	117.67	48.75	132.83	108.35	52.57	123.65	103.85	57.68
		36°C	164.82	142.35	39.65	159.88	139.72	42.34	154.85	136.64	45.45	149.84	133.08	48.98	136.22	122.37	52.94	128.33	116.20	58.22

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R22
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB500ER4 ~ MMC125ER x 4

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
13500	16°C	21°C	134.38	96.05	33.55	130.13	93.93	35.85	125.60	91.69	38.53	120.74	89.30	41.57	108.66	81.53	44.98	100.93	77.12	49.53
		24°C	134.91	114.41	33.58	130.65	112.03	35.89	126.13	109.51	38.57	121.31	106.85	41.62	109.23	97.79	45.03	101.45	92.93	49.58
		27°C	135.40	131.69	33.62	131.27	129.24	35.93	126.87	126.57	38.62	122.36	122.36	41.70	110.76	110.76	45.17	103.95	103.95	49.82
		30°C	140.78	140.78	33.95	137.23	137.23	36.33	133.41	133.41	39.10	129.32	129.32	42.24	117.48	117.48	45.76	110.46	110.46	50.45
	19°C	24°C	147.65	90.74	34.39	143.06	88.77	36.73	138.14	86.67	39.44	132.93	84.46	42.52	119.75	77.21	45.95	111.33	73.27	50.53
		27°C	148.03	106.00	34.41	143.42	103.84	36.76	138.52	101.54	39.47	133.33	99.12	42.55	120.17	90.77	45.99	111.81	86.36	50.57
		30°C	148.60	129.36	34.45	143.91	127.01	36.80	138.97	124.55	39.52	133.73	121.96	42.60	120.59	112.12	46.04	112.26	107.20	50.62
		33°C	149.46	149.46	34.50	145.19	145.19	36.88	140.96	140.96	39.66	136.73	136.73	42.83	124.34	124.34	46.38	117.10	117.10	51.11
	22°C	27°C	162.00	85.25	35.32	156.87	83.37	37.72	151.55	81.43	40.47	145.93	79.40	43.57	131.62	72.64	47.04	122.54	69.00	51.65
		30°C	162.22	105.38	35.34	157.12	103.29	37.73	151.82	101.11	40.49	146.22	98.78	43.59	131.90	90.55	47.06	122.87	86.27	51.68
		33°C	162.67	122.80	35.37	157.59	120.60	37.77	152.27	118.32	40.53	146.66	115.93	43.64	132.32	106.63	47.11	123.29	102.02	51.73
		36°C	163.14	139.83	35.40	158.06	137.62	37.80	152.67	135.29	40.56	147.09	132.89	43.68	132.84	122.42	47.15	124.37	116.67	51.84
15000	16°C	21°C	137.22	99.92	33.72	132.82	97.79	36.03	128.08	95.45	38.71	123.08	92.86	41.76	110.76	84.69	45.16	102.80	80.04	49.70
		24°C	137.93	119.11	33.77	133.53	116.69	36.08	128.84	114.11	38.76	123.83	111.38	41.81	111.44	102.00	45.22	103.40	96.99	49.77
		27°C	138.88	138.08	33.83	134.77	134.77	36.16	130.55	130.55	38.89	126.34	126.34	42.01	114.57	114.57	45.50	107.48	107.48	50.16
		30°C	146.08	146.08	34.29	142.33	142.33	36.68	138.29	138.29	39.46	133.98	133.98	42.61	121.65	121.65	46.13	114.31	114.31	50.83
	19°C	24°C	150.66	94.32	34.58	145.89	92.33	36.93	140.77	90.21	39.64	135.36	87.99	42.71	121.89	80.50	46.15	113.34	76.46	50.72
		27°C	151.23	110.40	34.62	146.45	108.18	36.97	141.36	105.82	39.69	135.99	103.35	42.76	122.50	94.71	46.20	113.92	90.18	50.78
		30°C	151.91	135.41	34.67	147.06	133.02	37.02	141.93	130.51	39.74	136.59	127.90	42.82	123.13	117.56	46.26	114.83	111.81	50.88
		33°C	154.29	154.29	34.81	150.35	150.35	37.25	146.19	146.19	40.06	141.76	141.76	43.23	128.85	128.85	46.79	121.28	121.28	51.53
	22°C	27°C	165.12	88.54	35.53	159.83	86.66	37.93	154.31	84.72	40.68	148.48	82.67	43.79	133.86	75.72	47.24	124.60	72.05	51.85
		30°C	165.51	109.97	35.56	160.24	107.77	37.96	154.74	105.50	40.71	148.93	103.10	43.82	134.30	94.56	47.28	125.08	90.14	51.90
		33°C	166.15	128.60	35.60	160.89	126.37	38.01	155.34	124.03	40.76	149.51	121.58	43.88	134.84	111.90	47.34	125.58	107.17	51.96
		36°C	166.73	147.03	35.64	161.44	144.77	38.05	155.99	142.18	40.82	150.59	139.17	43.96	136.50	128.65	47.50	128.35	122.67	52.25
16500	16°C	21°C	139.64	102.64	33.88	135.07	100.26	36.19	130.24	97.73	38.87	125.14	95.04	41.91	112.55	86.66	45.32	104.40	81.91	49.87
		24°C	140.55	122.31	33.94	135.97	119.85	36.25	131.14	117.26	38.93	125.98	114.50	41.98	113.29	104.89	45.39	105.12	99.85	49.93
		27°C	142.51	142.51	34.05	138.55	138.55	36.43	134.47	134.47	39.17	130.10	130.10	42.30	117.92	117.92	45.80	110.56	110.56	50.46
		30°C	150.78	150.78	34.59	146.79	146.79	37.00	142.57	142.57	39.78	138.07	138.07	42.93	125.30	125.30	46.46	117.68	117.68	51.16
	19°C	24°C	153.17	98.70	34.75	148.23	96.68	37.10	142.97	94.53	39.81	137.42	92.23	42.88	123.72	84.28	46.31	114.95	79.85	50.88
		27°C	153.95	115.54	34.80	149.02	113.25	37.15	143.74	110.82	39.87	138.21	108.28	42.95	124.44	99.28	46.38	115.64	94.60	50.96
		30°C	154.75	142.37	34.85	149.70	139.89	37.21	144.56	137.26	39.93	139.16	134.31	43.02	125.74	122.80	46.50	117.71	115.95	51.17
		33°C	159.29	159.29	35.15	155.17	155.17	37.59	150.82	150.82	40.41	146.20	146.20	43.60	132.82	132.82	47.16	124.95	124.95	51.90
	22°C	27°C	167.74	92.62	35.71	162.31	90.72	38.11	156.61	88.75	40.86	150.65	86.73	43.96	135.77	79.53	47.42	126.31	75.68	52.02
		30°C	168.30	115.19	35.75	162.89	112.93	38.15	157.24	110.57	40.91	151.30	108.09	44.02	136.37	99.19	47.48	126.94	94.63	52.09
		33°C	169.10	135.28	35.80	163.65	132.97	38.21	157.95	130.57	40.97	151.96	128.07	44.08	136.95	117.93	47.55	127.50	113.03	52.16
		36°C	169.95	154.93	35.86	164.85	152.06	38.29	159.66	148.71	41.10	154.50	144.84	44.29	140.45	133.18	47.87	132.32	126.47	52.66

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB600ER4 ~ MMC150ER x 4

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
16200	16°C	21°C	173.77	117.67	51.92	168.27	115.07	55.49	162.42	112.33	59.63	156.14	109.40	64.34	140.50	99.88	69.62	130.52	94.48	76.66
		24°C	174.45	140.16	51.97	168.95	137.24	55.55	163.10	134.16	59.69	156.87	130.89	64.42	141.25	119.80	69.69	131.18	113.84	76.74
		27°C	175.09	161.33	52.03	169.75	158.32	55.61	164.05	155.06	59.77	158.23	151.06	64.54	143.23	137.56	69.91	134.42	129.20	77.11
		30°C	182.04	182.04	52.54	177.45	177.45	56.23	172.51	172.51	60.51	167.23	167.23	65.38	151.91	151.91	70.82	142.84	142.84	78.09
	19°C	24°C	190.93	111.16	53.23	184.99	108.75	56.85	178.63	106.18	61.05	171.89	103.47	65.81	154.85	94.59	71.12	143.97	89.76	78.21
		27°C	191.41	129.86	53.26	185.45	127.21	56.90	179.13	124.39	61.10	172.42	121.42	65.86	155.40	111.20	71.18	144.58	105.79	78.28
		30°C	192.15	158.47	53.32	186.09	155.60	56.96	179.70	152.58	61.17	172.93	149.41	65.93	155.93	137.35	71.26	145.16	131.32	78.36
		33°C	193.27	193.27	53.40	187.75	187.75	57.09	182.28	182.28	61.39	176.81	176.81	66.29	160.78	160.78	71.78	151.42	151.42	79.10
	22°C	27°C	209.48	104.44	54.67	202.85	102.13	58.38	195.97	99.76	62.63	188.71	97.27	67.44	170.20	88.99	72.80	158.46	84.53	79.95
		30°C	209.77	129.10	54.70	203.17	126.54	58.40	196.33	123.87	62.66	189.07	121.01	67.47	170.56	110.93	72.84	158.89	105.68	79.98
		33°C	210.36	150.43	54.75	203.79	147.75	58.46	196.91	144.95	62.72	189.65	142.02	67.54	171.10	130.62	72.91	159.43	124.98	80.06
		36°C	210.96	171.30	54.80	204.38	168.59	58.51	197.42	165.74	62.78	190.21	162.80	67.60	171.78	149.97	72.98	160.83	142.93	80.23
18000	16°C	21°C	177.43	122.40	52.20	171.75	119.80	55.77	165.62	116.93	59.91	159.15	113.75	64.63	143.23	103.74	69.90	132.93	98.05	76.93
		24°C	178.36	145.91	52.27	172.67	142.95	55.85	166.61	139.80	60.00	160.13	136.45	64.72	144.11	124.96	69.99	133.70	118.82	77.03
		27°C	179.59	169.16	52.36	174.27	165.53	55.97	168.82	161.23	60.19	163.37	156.20	65.02	148.15	142.36	70.42	138.98	133.95	77.64
		30°C	188.90	188.90	53.07	184.04	184.04	56.78	178.82	178.82	61.07	173.26	173.26	65.95	157.30	157.30	71.40	147.82	147.82	78.67
	19°C	24°C	194.81	115.54	53.53	188.65	113.11	57.16	182.03	110.51	61.36	175.03	107.79	66.11	157.61	98.62	71.43	146.56	93.67	78.51
		27°C	195.55	135.25	53.58	189.38	132.52	57.22	182.80	129.64	61.43	175.85	126.61	66.19	158.40	116.02	71.51	147.31	110.48	78.59
		30°C	196.44	165.89	53.66	190.17	162.96	57.30	183.53	159.88	61.51	176.62	156.69	66.27	159.22	144.01	71.60	148.49	136.97	78.76
		33°C	199.51	199.51	53.88	194.42	194.42	57.65	189.04	189.04	62.00	183.32	183.32	66.92	166.62	166.62	72.42	156.83	156.83	79.75
	22°C	27°C	213.52	108.47	55.00	206.68	106.17	58.71	199.55	103.78	62.96	192.00	101.28	67.77	173.09	92.76	73.12	161.12	88.27	80.26
		30°C	214.03	134.72	55.04	207.21	132.03	58.75	200.10	129.24	63.01	192.59	126.31	67.83	173.67	115.84	73.19	161.74	110.43	80.33
		33°C	214.85	157.55	55.11	208.04	154.81	58.83	200.87	151.94	63.09	193.33	148.94	67.91	174.36	137.09	73.28	162.39	131.29	80.42
		36°C	215.60	180.12	55.17	208.76	177.35	58.90	201.71	174.18	63.18	194.73	170.49	68.05	176.51	157.60	73.51	165.97	150.27	80.87
19800	16°C	21°C	180.57	125.74	52.43	174.66	122.82	56.01	168.41	119.72	60.16	161.82	116.43	64.87	145.54	106.16	70.14	135.00	100.34	77.19
		24°C	181.74	149.84	52.53	175.83	146.82	56.11	169.58	143.64	60.26	162.91	140.27	64.98	146.49	128.50	70.25	135.93	122.32	77.29
		27°C	184.28	174.64	52.71	179.15	171.77	56.38	173.88	168.42	60.63	168.23	164.59	65.47	152.49	149.64	70.88	142.97	141.00	78.10
		30°C	194.98	194.98	53.54	189.82	189.82	57.27	184.36	184.36	61.57	178.54	178.54	66.45	162.03	162.03	71.91	152.18	152.18	79.19
	19°C	24°C	198.07	120.92	53.78	191.68	118.44	57.42	184.88	115.81	61.61	177.70	112.98	66.37	159.99	103.24	71.67	148.64	97.83	78.76
		27°C	199.07	141.54	53.86	192.70	138.74	57.50	185.87	135.76	61.71	178.72	132.65	66.47	160.91	121.62	71.79	149.53	115.88	78.87
		30°C	200.11	174.41	53.94	193.58	171.37	57.60	186.93	168.16	61.81	179.94	164.53	66.59	162.60	150.43	71.98	152.22	142.05	79.20
		33°C	205.98	205.98	54.40	200.65	200.65	58.19	195.03	195.03	62.55	189.05	189.05	67.48	171.75	171.75	72.99	161.57	161.57	80.32
	22°C	27°C	216.91	113.46	55.27	209.89	111.14	58.98	202.51	108.72	63.24	194.81	106.25	68.04	175.56	97.43	73.40	163.34	92.71	80.52
		30°C	217.63	141.12	55.33	210.64	138.34	59.05	203.33	135.45	63.31	195.65	132.42	68.13	176.35	121.52	73.48	164.15	115.92	80.62
		33°C	218.67	165.72	55.42	211.61	162.90	59.14	204.24	159.96	63.41	196.50	156.89	68.23	177.10	144.47	73.59	164.87	138.46	80.73
		36°C	219.76	189.80	55.50	213.17	186.28	59.27	206.46	182.18	63.62	199.79	177.44	68.56	181.62	163.15	74.10	171.11	154.93	81.50

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R22
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB075ER ~ MMC075FR

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
2025	16°C	21°C	21.15	16.31	7.30	20.48	15.95	7.80	19.77	15.57	8.38	19.00	15.16	9.04	17.10	13.84	9.78	15.88	13.09	10.77
		24°C	21.23	19.43	7.30	20.56	19.02	7.80	19.85	18.59	8.39	19.09	18.14	9.05	17.19	16.60	9.79	15.96	15.78	10.78
		27°C	21.31	21.31	7.31	20.66	20.66	7.81	19.96	19.96	8.40	19.26	19.26	9.07	17.43	17.43	9.82	16.36	16.36	10.83
		30°C	22.15	22.15	7.38	21.59	21.59	7.90	20.99	20.99	8.50	20.35	20.35	9.19	18.49	18.49	9.95	17.38	17.38	10.97
	19°C	24°C	23.23	15.41	7.48	22.51	15.07	7.99	21.74	14.72	8.58	20.92	14.34	9.25	18.84	13.11	9.99	17.52	12.44	10.99
		27°C	23.29	18.00	7.48	22.57	17.63	7.99	21.80	17.24	8.58	20.98	16.83	9.25	18.91	15.41	10.00	17.60	14.66	11.00
		30°C	23.38	21.96	7.49	22.65	21.57	8.00	21.87	21.15	8.59	21.04	20.71	9.26	18.98	18.98	10.01	17.67	17.67	11.01
		33°C	23.52	23.52	7.50	22.85	22.85	8.02	22.18	22.18	8.63	21.52	21.52	9.31	19.57	19.57	10.09	18.43	18.43	11.11
	22°C	27°C	25.49	14.47	7.68	24.69	14.16	8.20	23.85	13.83	8.80	22.96	13.48	9.48	20.71	12.33	10.23	19.28	11.72	11.23
		30°C	25.53	17.89	7.69	24.72	17.54	8.21	23.89	17.17	8.80	23.01	16.77	9.48	20.76	15.37	10.23	19.34	14.65	11.24
		33°C	25.60	20.85	7.69	24.80	20.48	8.21	23.96	20.09	8.81	23.08	19.68	9.49	20.82	18.10	10.24	19.40	17.32	11.25
		36°C	25.67	23.74	7.70	24.87	23.37	8.22	24.02	22.97	8.82	23.15	22.56	9.50	20.90	20.79	10.25	19.57	19.57	11.27
2250	16°C	21°C	21.59	16.96	7.33	20.90	16.60	7.84	20.16	16.21	8.42	19.37	15.77	9.08	17.43	14.38	9.82	16.18	13.59	10.81
		24°C	21.70	20.22	7.34	21.01	19.81	7.85	20.27	19.38	8.43	19.49	18.91	9.09	17.54	17.32	9.83	16.27	16.27	10.82
		27°C	21.86	21.86	7.36	21.21	21.21	7.86	20.54	20.54	8.46	19.88	19.88	9.14	18.03	18.03	9.89	16.91	16.91	10.91
		30°C	22.99	22.99	7.46	22.40	22.40	7.98	21.76	21.76	8.58	21.08	21.08	9.27	19.14	19.14	10.03	17.99	17.99	11.05
	19°C	24°C	23.71	16.01	7.52	22.96	15.68	8.03	22.15	15.32	8.62	21.30	14.94	9.29	19.18	13.67	10.04	17.84	12.98	11.03
		27°C	23.80	18.74	7.53	23.05	18.37	8.04	22.25	17.97	8.63	21.40	17.55	9.30	19.28	16.08	10.05	17.93	15.31	11.04
		30°C	23.91	22.99	7.54	23.14	22.59	8.05	22.33	22.16	8.64	21.49	21.49	9.31	19.38	19.38	10.06	18.07	18.07	11.07
		33°C	24.28	24.28	7.57	23.66	23.66	8.10	23.00	23.00	8.71	22.31	22.31	9.40	20.28	20.28	10.18	19.08	19.08	11.21
	22°C	27°C	25.98	15.03	7.73	25.15	14.71	8.25	24.28	14.38	8.85	23.37	14.04	9.52	21.06	12.86	10.27	19.61	12.23	11.28
		30°C	26.05	18.67	7.73	25.22	18.30	8.26	24.35	17.91	8.85	23.44	17.51	9.53	21.13	16.06	10.28	19.68	15.31	11.29
		33°C	26.15	21.84	7.74	25.32	21.46	8.27	24.45	21.06	8.87	23.53	20.64	9.54	21.22	19.00	10.30	19.76	18.20	11.30
		36°C	26.24	24.96	7.75	25.40	24.58	8.28	24.55	24.14	8.88	23.70	23.63	9.56	21.48	21.48	10.33	20.20	20.20	11.36
2475	16°C	21°C	21.97	17.43	7.37	21.26	17.02	7.87	20.49	16.59	8.45	19.69	16.14	9.12	17.71	14.71	9.86	16.43	13.91	10.85
		24°C	22.12	20.77	7.38	21.40	20.35	7.88	20.64	19.91	8.47	19.83	19.44	9.13	17.83	17.81	9.87	16.54	16.54	10.86
		27°C	22.43	22.43	7.41	21.80	21.80	7.92	21.16	21.16	8.52	20.47	20.47	9.20	18.56	18.56	9.96	17.40	17.40	10.97
		30°C	23.73	23.73	7.52	23.10	23.10	8.05	22.44	22.44	8.65	21.73	21.73	9.34	19.72	19.72	10.10	18.52	18.52	11.13
	19°C	24°C	24.10	16.76	7.56	23.33	16.42	8.07	22.50	16.05	8.66	21.62	15.66	9.33	19.47	14.31	10.07	18.09	13.56	11.07
		27°C	24.23	19.62	7.57	23.45	19.23	8.08	22.62	18.82	8.67	21.75	18.38	9.34	19.58	16.86	10.09	18.20	16.06	11.08
		30°C	24.35	24.17	7.58	23.56	23.56	8.09	22.75	22.75	8.68	21.90	21.90	9.36	19.79	19.79	10.11	18.52	18.52	11.13
		33°C	25.07	25.07	7.64	24.42	24.42	8.18	23.73	23.73	8.79	23.01	23.01	9.48	20.90	20.90	10.26	19.66	19.66	11.29
	22°C	27°C	26.40	15.73	7.77	25.54	15.40	8.29	24.64	15.07	8.89	23.71	14.73	9.56	21.37	13.50	10.31	19.88	12.85	11.31
		30°C	26.48	19.56	7.77	25.63	19.17	8.30	24.74	18.77	8.90	23.81	18.35	9.57	21.46	16.84	10.33	19.98	16.07	11.33
		33°C	26.61	22.97	7.79	25.75	22.58	8.31	24.86	22.17	8.91	23.91	21.74	9.59	21.55	20.02	10.34	20.06	19.19	11.34
		36°C	26.74	26.31	7.80	25.94	25.82	8.33	25.13	25.13	8.94	24.31	24.31	9.63	22.10	22.10	10.41	20.82	20.82	11.45

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB100ER ~ MMC100FR

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
2655	16°C	21°C	27.22	21.00	8.49	26.36	20.53	9.08	25.45	20.04	9.76	24.46	19.52	10.53	22.01	17.82	11.39	20.45	16.86	12.54
		24°C	27.33	25.01	8.50	26.47	24.49	9.09	25.55	23.94	9.77	24.58	23.35	10.54	22.13	21.38	11.40	20.55	20.31	12.55
		27°C	27.43	27.43	8.51	26.59	26.59	9.10	25.70	25.70	9.78	24.79	24.79	10.56	22.44	22.44	11.44	21.06	21.06	12.62
		30°C	28.52	28.52	8.60	27.80	27.80	9.20	27.03	27.03	9.90	26.20	26.20	10.70	23.80	23.80	11.59	22.38	22.38	12.78
	19°C	24°C	29.91	19.83	8.71	28.98	19.40	9.30	27.99	18.94	9.99	26.93	18.46	10.77	24.26	16.88	11.64	22.55	16.02	12.80
		27°C	29.99	23.17	8.71	29.05	22.70	9.31	28.06	22.19	10.00	27.01	21.66	10.78	24.35	19.84	11.65	22.65	18.88	12.81
		30°C	30.10	28.28	8.72	29.15	27.76	9.32	28.15	27.22	10.01	27.09	26.66	10.79	24.43	24.43	11.66	22.74	22.74	12.82
		33°C	30.28	30.28	8.74	29.41	29.41	9.34	28.56	28.56	10.04	27.70	27.70	10.85	25.19	25.19	11.74	23.72	23.72	12.94
	22°C	27°C	32.82	18.63	8.95	31.78	18.22	9.55	30.70	17.80	10.25	29.56	17.36	11.03	26.67	15.88	11.91	24.83	15.08	13.08
		30°C	32.86	23.03	8.95	31.83	22.58	9.56	30.76	22.10	10.25	29.62	21.59	11.04	26.72	19.79	11.92	24.89	18.86	13.09
		33°C	32.96	26.84	8.96	31.93	26.36	9.56	30.85	25.86	10.26	29.71	25.34	11.05	26.81	23.31	11.93	24.98	22.30	13.10
		36°C	33.05	30.56	8.97	32.02	30.08	9.57	30.93	29.57	10.27	29.80	29.05	11.06	26.91	26.76	11.94	25.20	25.20	13.13
2950	16°C	21°C	27.80	21.84	8.54	26.91	21.37	9.12	25.95	20.86	9.80	24.93	20.30	10.57	22.44	18.51	11.44	20.83	17.50	12.59
		24°C	27.94	26.03	8.55	27.05	25.51	9.14	26.10	24.94	9.82	25.09	24.35	10.59	22.58	22.30	11.45	20.95	20.95	12.60
		27°C	28.14	28.14	8.57	27.30	27.30	9.16	26.45	26.45	9.85	25.59	25.59	10.64	23.21	23.21	11.52	21.77	21.77	12.70
		30°C	29.60	29.60	8.68	28.83	28.83	9.29	28.02	28.02	9.99	27.14	27.14	10.79	24.64	24.64	11.68	23.16	23.16	12.87
	19°C	24°C	30.52	20.62	8.76	29.56	20.18	9.35	28.52	19.72	10.04	27.42	19.23	10.82	24.69	17.60	11.69	22.96	16.71	12.84
		27°C	30.64	24.13	8.77	29.67	23.65	9.36	28.64	23.13	10.05	27.55	22.59	10.83	24.82	20.70	11.70	23.08	19.71	12.86
		30°C	30.78	29.60	8.78	29.79	29.08	9.38	28.75	28.53	10.06	27.67	27.67	10.84	24.95	24.95	11.72	23.26	23.26	12.89
		33°C	31.26	31.26	8.82	30.46	30.46	9.43	29.62	29.62	10.14	28.72	28.72	10.95	26.10	26.10	11.85	24.57	24.57	13.05
	22°C	27°C	33.45	19.35	9.00	32.38	18.94	9.60	31.26	18.52	10.30	30.08	18.07	11.09	27.12	16.55	11.96	25.24	15.75	13.13
		30°C	33.53	24.04	9.00	32.46	23.56	9.61	31.35	23.06	10.31	30.17	22.54	11.10	27.21	20.67	11.97	25.34	19.70	13.14
		33°C	33.66	28.11	9.02	32.59	27.62	9.62	31.47	27.11	10.32	30.29	26.58	11.11	27.32	24.46	11.99	25.44	23.42	13.16
		36°C	33.78	32.14	9.03	32.71	31.64	9.64	31.60	31.08	10.34	30.51	30.42	11.13	27.65	27.65	12.03	26.00	26.00	13.23
3245	16°C	21°C	28.29	22.43	8.58	27.36	21.92	9.16	26.38	21.36	9.84	25.35	20.78	10.61	22.80	18.94	11.48	21.15	17.90	12.63
		24°C	28.47	26.74	8.59	27.55	26.20	9.18	26.57	25.63	9.86	25.52	25.03	10.63	22.95	22.93	11.49	21.30	21.30	12.64
		27°C	28.87	28.87	8.62	28.07	28.07	9.22	27.24	27.24	9.92	26.36	26.36	10.71	23.89	23.89	11.60	22.40	22.40	12.78
		30°C	30.55	30.55	8.76	29.74	29.74	9.37	28.88	28.88	10.07	27.97	27.97	10.87	25.38	25.38	11.77	23.84	23.84	12.96
	19°C	24°C	31.03	21.57	8.80	30.03	21.13	9.39	28.96	20.66	10.08	27.84	20.16	10.86	25.06	18.42	11.73	23.29	17.45	12.89
		27°C	31.19	25.25	8.81	30.19	24.76	9.41	29.12	24.22	10.10	28.00	23.67	10.88	25.21	21.70	11.75	23.43	20.68	12.90
		30°C	31.35	31.12	8.83	30.33	30.33	9.42	29.29	29.29	10.11	28.19	28.19	10.89	25.47	25.47	11.78	23.85	23.85	12.96
		33°C	32.27	32.27	8.90	31.44	31.44	9.52	30.56	30.56	10.23	29.62	29.62	11.04	26.91	26.91	11.94	25.31	25.31	13.14
	22°C	27°C	33.98	20.25	9.04	32.88	19.83	9.65	31.73	19.40	10.35	30.52	18.96	11.13	27.51	17.38	12.01	25.59	16.54	13.17
		30°C	34.10	25.18	9.05	33.00	24.68	9.66	31.86	24.17	10.36	30.65	23.63	11.15	27.63	21.68	12.02	25.72	20.68	13.19
		33°C	34.26	29.57	9.07	33.15	29.07	9.68	32.00	28.54	10.37	30.79	27.99	11.16	27.75	25.78	12.04	25.83	24.71	13.21
		36°C	34.43	33.86	9.08	33.40	33.24	9.70	32.35	32.35	10.41	31.30	31.30	11.22	28.45	28.45	12.12	26.81	26.81	13.33

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R22
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB125ER ~ MMC125FR

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
3330	16°C	21°C	32.41	25.30	9.01	31.39	24.74	9.63	30.29	24.15	10.35	29.12	23.52	11.16	26.21	21.48	12.08	24.34	20.32	13.30
		24°C	32.54	30.14	9.02	31.51	29.51	9.64	30.42	28.85	10.36	29.26	28.14	11.18	26.35	25.76	12.09	24.47	24.47	13.31
		27°C	32.66	32.66	9.03	31.66	31.66	9.65	30.60	30.60	10.37	29.51	29.51	11.20	26.72	26.72	12.13	25.07	25.07	13.38
		30°C	33.95	33.95	9.12	33.10	33.10	9.76	32.18	32.18	10.50	31.19	31.19	11.34	28.33	28.33	12.29	26.64	26.64	13.55
	19°C	24°C	35.61	23.90	9.24	34.51	23.38	9.86	33.32	22.83	10.59	32.06	22.25	11.42	28.88	20.34	12.34	26.85	19.30	13.57
		27°C	35.70	27.92	9.24	34.59	27.35	9.87	33.41	26.75	10.60	32.16	26.11	11.43	28.99	23.91	12.35	26.97	22.75	13.58
		30°C	35.84	34.07	9.25	34.71	33.46	9.88	33.52	32.81	10.61	32.26	32.12	11.44	29.08	29.08	12.36	27.08	27.08	13.60
		33°C	36.05	36.05	9.27	35.02	35.02	9.91	34.00	34.00	10.65	32.98	32.98	11.50	29.99	29.99	12.45	28.24	28.24	13.73
	22°C	27°C	39.07	22.46	9.49	37.84	21.96	10.13	36.55	21.45	10.87	35.20	20.92	11.70	31.75	19.14	12.63	29.56	18.18	13.87
		30°C	39.13	27.76	9.49	37.90	27.21	10.13	36.62	26.63	10.87	35.27	26.02	11.71	31.81	23.85	12.64	29.64	22.72	13.88
		33°C	39.24	32.35	9.50	38.01	31.77	10.14	36.73	31.17	10.88	35.37	30.54	11.72	31.91	28.09	12.65	29.74	26.87	13.89
		36°C	39.35	36.83	9.51	38.12	36.25	10.15	36.82	35.64	10.89	35.48	35.01	11.73	32.04	32.04	12.66	30.00	30.00	13.92
3700	16°C	21°C	33.10	26.32	9.06	32.03	25.76	9.68	30.89	25.14	10.40	29.69	24.46	11.21	26.72	22.31	12.13	24.79	21.08	13.35
		24°C	33.27	31.37	9.07	32.21	30.74	9.69	31.08	30.06	10.41	29.87	29.34	11.23	26.88	26.87	12.14	24.94	24.94	13.37
		27°C	33.50	33.50	9.08	32.51	32.51	9.71	31.49	31.49	10.44	30.47	30.47	11.28	27.63	27.63	12.22	25.92	25.92	13.47
		30°C	35.23	35.23	9.21	34.33	34.33	9.85	33.35	33.35	10.60	32.32	32.32	11.44	29.34	29.34	12.39	27.57	27.57	13.65
	19°C	24°C	36.34	24.84	9.29	35.19	24.32	9.92	33.95	23.76	10.65	32.65	23.18	11.47	29.40	21.21	12.39	27.34	20.14	13.62
		27°C	36.47	29.08	9.30	35.32	28.50	9.93	34.10	27.88	10.66	32.80	27.22	11.48	29.55	24.95	12.41	27.48	23.76	13.64
		30°C	36.64	35.67	9.31	35.47	35.04	9.94	34.23	34.23	10.67	32.94	32.94	11.50	29.70	29.70	12.42	27.70	27.70	13.66
		33°C	37.21	37.21	9.35	36.26	36.26	10.00	35.26	35.26	10.76	34.19	34.19	11.61	31.08	31.08	12.57	29.25	29.25	13.84
	22°C	27°C	39.83	23.32	9.54	38.55	22.83	10.19	37.22	22.32	10.92	35.81	21.78	11.76	32.29	19.95	12.69	30.05	18.98	13.92
		30°C	39.92	28.97	9.55	38.65	28.39	10.19	37.32	27.79	10.93	35.92	27.16	11.77	32.39	24.91	12.70	30.17	23.74	13.94
		33°C	40.07	33.88	9.56	38.80	33.29	10.21	37.47	32.67	10.95	36.06	32.03	11.78	32.52	29.48	12.71	30.29	28.23	13.95
		36°C	40.21	38.73	9.57	38.94	38.13	10.22	37.62	37.45	10.96	36.32	36.32	11.81	32.92	32.92	12.76	30.96	30.96	14.03
4070	16°C	21°C	33.68	27.04	9.10	32.58	26.41	9.72	31.41	25.74	10.44	30.18	25.04	11.26	27.15	22.83	12.17	25.18	21.58	13.39
		24°C	33.90	32.22	9.11	32.80	31.57	9.74	31.63	30.89	10.46	30.39	30.16	11.27	27.32	27.32	12.19	25.35	25.35	13.41
		27°C	34.37	34.37	9.14	33.42	33.42	9.78	32.43	32.43	10.52	31.38	31.38	11.36	28.44	28.44	12.30	26.67	26.67	13.55
		30°C	36.37	36.37	9.29	35.41	35.41	9.94	34.39	34.39	10.68	33.30	33.30	11.53	30.22	30.22	12.48	28.38	28.38	13.74
	19°C	24°C	36.94	26.00	9.33	35.75	25.47	9.96	34.48	24.90	10.69	33.14	24.29	11.52	29.84	22.20	12.44	27.73	21.03	13.67
		27°C	37.13	30.43	9.34	35.94	29.83	9.98	34.67	29.19	10.71	33.34	28.52	11.53	30.01	26.15	12.46	27.89	24.92	13.68
		30°C	37.33	37.33	9.36	36.11	36.11	9.99	34.87	34.87	10.72	33.56	33.56	11.55	30.33	30.33	12.49	28.39	28.39	13.74
		33°C	38.42	38.42	9.44	37.43	37.43	10.10	36.38	36.38	10.85	35.26	35.26	11.71	32.04	32.04	12.66	30.14	30.14	13.94
	22°C	27°C	40.46	24.40	9.59	39.15	23.90	10.23	37.77	23.38	10.97	36.34	22.84	11.81	32.75	20.95	12.73	30.47	19.93	13.97
		30°C	40.59	30.34	9.60	39.29	29.75	10.25	37.93	29.12	10.99	36.49	28.47	11.82	32.89	26.13	12.75	30.62	24.93	13.99
		33°C	40.79	35.63	9.61	39.47	35.03	10.26	38.10	34.39	11.00	36.65	33.73	11.84	33.03	31.06	12.77	30.75	29.77	14.01
		36°C	40.99	40.81	9.63	39.76	39.76	10.28	38.51	38.51	11.04	37.26	37.26	11.90	33.88	33.88	12.86	31.92	31.92	14.14

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R22
MDB ~ ER SERIES (HEATING MODE)
MODEL : MDB075ER ~ MMC075ER

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	10.492	10.492	13.166	13.166	14.058	14.058	23.864	23.864	29.212	29.212	31.887	31.887	34.561	34.561
17	10.220	10.220	12.896	12.896	13.789	13.789	23.818	23.818	28.416	28.416	30.997	30.997	33.578	33.578
19	9.948	9.948	12.627	12.627	13.520	13.520	23.772	23.772	27.619	27.619	30.107	30.107	32.595	32.595
21	9.676	9.676	12.357	12.357	13.251	13.251	23.726	23.726	26.822	26.822	29.217	29.217	31.612	31.612
23	9.665	9.665	12.153	12.153	12.982	12.982	22.521	22.521	26.026	26.026	28.327	28.327	30.629	30.629
25	9.654	9.654	11.948	11.948	12.713	12.713	21.316	21.316	25.229	25.229	27.438	27.438	29.646	29.646
27	9.643	9.643	11.744	11.744	12.444	12.444	20.112	20.112	24.432	24.432	26.548	26.548	28.663	28.663

MODEL : MDB100ER ~ MMC100ER

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	14.259	14.259	17.938	17.938	19.164	19.164	32.652	32.652	40.009	40.009	43.688	43.688	47.367	47.367
17	13.879	13.879	17.567	17.567	18.797	18.797	31.631	31.631	38.918	38.918	42.469	42.469	46.019	46.019
19	13.499	13.499	17.196	17.196	18.429	18.429	30.609	30.609	37.826	37.826	41.249	41.249	44.672	44.672
21	13.119	13.119	16.826	16.826	18.061	18.061	29.587	29.587	36.735	36.735	40.030	40.030	43.325	43.325
23	13.114	13.114	16.549	16.549	17.694	17.694	28.947	28.947	35.643	35.643	38.810	38.810	41.978	41.978
25	13.109	13.109	16.272	16.272	17.326	17.326	28.306	28.306	34.551	34.551	37.591	37.591	40.631	40.631
27	13.104	13.104	15.995	15.995	16.958	16.958	27.665	27.665	33.460	33.460	36.372	36.372	39.284	39.284

MODEL : MDB125ER ~ MMC125ER

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	16.969	16.969	21.322	21.322	22.772	22.772	38.730	38.730	47.435	47.435	51.787	51.787	56.139	56.139
17	16.523	16.523	20.883	20.883	22.336	22.336	37.916	37.916	46.141	46.141	50.341	50.341	54.542	54.542
19	16.077	16.077	20.444	20.444	21.900	21.900	37.101	37.101	44.847	44.847	48.896	48.896	52.946	52.946
21	15.631	15.631	20.005	20.005	21.463	21.463	36.286	36.286	43.553	43.553	47.451	47.451	51.349	51.349
23	15.619	15.619	19.675	19.675	21.027	21.027	35.109	35.109	42.259	42.259	46.006	46.006	49.752	49.752
25	15.608	15.608	19.345	19.345	20.591	20.591	33.932	33.932	40.965	40.965	44.560	44.560	48.156	48.156
27	15.596	15.596	19.015	19.015	20.155	20.155	32.755	32.755	39.671	39.671	43.115	43.115	46.559	46.559

R22
MDB ~ ER SERIES (HEATING MODE)
MODEL : MDB150ER ~ MMC150ER

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	21.260	21.260	26.773	26.773	28.610	28.610	48.823	48.823	59.848	59.848	65.361	65.361	70.874	70.874
17	20.686	20.686	26.217	26.217	28.061	28.061	47.436	47.436	58.215	58.215	63.537	63.537	68.858	68.858
19	20.113	20.113	25.662	25.662	27.511	27.511	46.048	46.048	56.582	56.582	61.712	61.712	66.842	66.842
21	19.539	19.539	25.106	25.106	26.962	26.962	44.660	44.660	54.949	54.949	59.887	59.887	64.826	64.826
23	19.538	19.538	24.694	24.694	26.412	26.412	43.554	43.554	53.315	53.315	58.063	58.063	62.811	62.811
25	19.538	19.538	24.281	24.281	25.863	25.863	42.447	42.447	51.682	51.682	56.238	56.238	60.795	60.795
27	19.537	19.537	23.869	23.869	25.313	25.313	41.340	41.340	50.049	50.049	54.414	54.414	58.779	58.779

MODEL : MDB150ER2 ~ MMC075ER x 2

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	20.983	20.983	26.332	26.332	28.115	28.115	47.727	47.727	58.425	58.425	63.773	63.773	69.122	69.122
17	20.440	20.440	25.793	25.793	27.577	27.577	47.635	47.635	56.831	56.831	61.994	61.994	67.156	67.156
19	19.896	19.896	25.253	25.253	27.039	27.039	47.543	47.543	55.238	55.238	60.214	60.214	65.190	65.190
21	19.353	19.353	24.714	24.714	26.501	26.501	47.452	47.452	53.644	53.644	58.434	58.434	63.224	63.224
23	19.331	19.331	24.305	24.305	25.963	25.963	45.042	45.042	52.051	52.051	56.655	56.655	61.258	61.258
25	19.308	19.308	23.896	23.896	25.425	25.425	42.633	42.633	50.458	50.458	54.875	54.875	59.293	59.293
27	19.286	19.286	23.487	23.487	24.887	24.887	40.224	40.224	48.864	48.864	53.095	53.095	57.327	57.327

MODEL : MDB200ER2 ~ MMC100ER x 2

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	28.543	28.543	35.936	35.936	38.401	38.401	65.510	65.510	80.296	80.296	87.690	87.690	95.083	95.083
17	27.775	27.775	35.191	35.191	37.663	37.663	63.398	63.398	78.105	78.105	85.242	85.242	92.379	92.379
19	27.006	27.006	34.446	34.446	36.926	36.926	61.287	61.287	75.914	75.914	82.794	82.794	89.675	89.675
21	26.238	26.238	33.701	33.701	36.189	36.189	59.175	59.175	73.723	73.723	80.347	80.347	86.970	86.970
23	26.235	26.235	33.147	33.147	35.451	35.451	57.953	57.953	71.532	71.532	77.899	77.899	84.266	84.266
25	26.233	26.233	32.594	32.594	34.714	34.714	56.731	56.731	69.340	69.340	75.451	75.451	81.562	81.562
27	26.230	26.230	32.040	32.040	33.977	33.977	55.510	55.510	67.149	67.149	73.003	73.003	78.857	78.857

MODEL : MDB250ER2 ~ MMC125ER x 2

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	33.374	33.374	41.985	41.985	44.855	44.855	76.429	76.429	93.651	93.651	102.262	102.262	110.873	110.873
17	32.484	32.484	41.117	41.117	43.995	43.995	75.144	75.144	91.096	91.096	99.408	99.408	107.720	107.720
19	31.594	31.594	40.249	40.249	43.134	43.134	73.858	73.858	88.540	88.540	96.553	96.553	104.566	104.566
21	30.704	30.704	39.381	39.381	42.274	42.274	72.573	72.573	85.985	85.985	93.699	93.699	101.413	101.413
23	30.693	30.693	38.733	38.733	41.413	41.413	69.909	69.909	83.430	83.430	90.845	90.845	98.259	98.259
25	30.682	30.682	38.085	38.085	40.553	40.553	67.244	67.244	80.875	80.875	87.990	87.990	95.106	95.106
27	30.671	30.671	37.437	37.437	39.692	39.692	64.580	64.580	78.319	78.319	85.136	85.136	91.953	91.953

R22
MDB ~ ER SERIES (HEATING MODE)
MODEL : MDB300ER2 ~ MMC150ER x 2

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	44.467	44.467	55.900	55.900	59.711	59.711	101.632	101.632	124.498	124.498	135.931	135.931	147.364	147.364
17	43.291	43.291	54.747	54.747	58.566	58.566	97.528	97.528	121.101	121.101	132.137	132.137	143.173	143.173
19	42.115	42.115	53.595	53.595	57.421	57.421	93.424	93.424	117.705	117.705	128.343	128.343	138.981	138.981
21	40.939	40.939	52.442	52.442	56.277	56.277	89.321	89.321	114.308	114.308	124.549	124.549	134.790	134.790
23	40.915	40.915	51.578	51.578	55.132	55.132	88.300	88.300	110.912	110.912	120.755	120.755	130.599	130.599
25	40.890	40.890	50.713	50.713	53.987	53.987	87.279	87.279	107.515	107.515	116.962	116.962	126.408	126.408
27	40.866	40.866	49.849	49.849	52.843	52.843	86.259	86.259	104.119	104.119	113.168	113.168	122.217	122.217

MODEL : MDB300ER3 ~ MMC100ER x 3

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	42.827	42.827	53.935	53.935	57.637	57.637	98.367	98.367	120.584	120.584	131.692	131.692	142.800	142.800
17	41.670	41.670	52.815	52.815	56.530	56.530	93.491	93.491	117.293	117.293	128.016	128.016	138.738	138.738
19	40.513	40.513	51.696	51.696	55.423	55.423	88.614	88.614	114.002	114.002	124.339	124.339	134.677	134.677
21	39.357	39.357	50.576	50.576	54.316	54.316	83.738	83.738	110.711	110.711	120.663	120.663	130.615	130.615
23	39.357	39.357	49.746	49.746	53.209	53.209	83.698	83.698	107.420	107.420	116.987	116.987	126.554	126.554
25	39.356	39.356	48.916	48.916	52.102	52.102	83.659	83.659	104.130	104.130	113.311	113.311	122.492	122.492
27	39.356	39.356	48.085	48.085	50.995	50.995	83.619	83.619	100.839	100.839	109.635	109.635	118.431	118.431

MODEL : MDB350ER3 ~ MMC100ER + MMC125ER x 2

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	47.580	47.580	59.914	59.914	64.026	64.026	109.251	109.251	133.920	133.920	146.254	146.254	158.589	158.589
17	46.296	46.296	58.671	58.671	62.796	62.796	106.888	106.888	130.265	130.265	142.172	142.172	154.078	154.078
19	45.013	45.013	57.428	57.428	61.566	61.566	104.524	104.524	126.611	126.611	138.089	138.089	149.568	149.568
21	43.730	43.730	56.185	56.185	60.337	60.337	102.160	102.160	122.956	122.956	134.007	134.007	145.057	145.057
23	43.728	43.728	55.262	55.262	59.107	59.107	98.904	98.904	119.301	119.301	129.924	129.924	140.546	140.546
25	43.726	43.726	54.339	54.339	57.877	57.877	95.647	95.647	115.647	115.647	125.841	125.841	136.036	136.036
27	43.724	43.724	53.417	53.417	56.648	56.648	92.390	92.390	111.992	111.992	121.759	121.759	131.525	131.525

MODEL : MDB400ER4 ~ MMC100ER x 4

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	57.086	57.086	71.873	71.873	76.802	76.802	131.020	131.020	160.593	160.593	175.380	175.380	190.166	190.166
17	55.549	55.549	70.383	70.383	75.327	75.327	126.796	126.796	156.211	156.211	170.484	170.484	184.758	184.758
19	54.013	54.013	68.892	68.892	73.852	73.852	122.573	122.573	151.828	151.828	165.589	165.589	179.349	179.349
21	52.476	52.476	67.402	67.402	72.377	72.377	118.350	118.350	147.446	147.446	160.693	160.693	173.940	173.940
23	52.471	52.471	66.295	66.295	70.903	70.903	115.906	115.906	143.063	143.063	155.798	155.798	168.532	168.532
25	52.466	52.466	65.187	65.187	69.428	69.428	113.463	113.463	138.681	138.681	150.902	150.902	163.123	163.123
27	52.460	52.460	64.080	64.080	67.953	67.953	111.019	111.019	134.298	134.298	146.006	146.006	157.714	157.714

R22
MDB ~ ER SERIES (HEATING MODE)
MODEL : MDB450ER4 ~ MMC150ER x 3

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	65.799	65.799	82.853	82.853	88.538	88.538	151.070	151.070	185.179	185.179	202.233	202.233	219.287	219.287
17	64.025	64.025	81.135	81.135	86.838	86.838	145.374	145.374	180.126	180.126	196.588	196.588	213.051	213.051
19	62.251	62.251	79.416	79.416	85.138	85.138	139.677	139.677	175.072	175.072	190.943	190.943	206.814	206.814
21	60.477	60.477	77.697	77.697	83.437	83.437	133.981	133.981	170.019	170.019	185.298	185.298	200.577	200.577
23	60.474	60.474	76.421	76.421	81.737	81.737	132.034	132.034	164.965	164.965	179.652	179.652	194.340	194.340
25	60.471	60.471	75.145	75.145	80.036	80.036	130.086	130.086	159.912	159.912	174.007	174.007	188.103	188.103
27	60.467	60.467	73.869	73.869	78.336	78.336	128.139	128.139	154.858	154.858	168.362	168.362	181.866	181.866

MODEL : MDB500ER4 ~ MMC125ER x 4

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	66.700	66.700	83.850	83.850	89.566	89.566	152.448	152.448	186.747	186.747	203.896	203.896	221.046	221.046
17	64.936	64.936	82.121	82.121	87.849	87.849	150.014	150.014	181.652	181.652	198.206	198.206	214.759	214.759
19	63.172	63.172	80.392	80.392	86.132	86.132	147.580	147.580	176.557	176.557	192.515	192.515	208.472	208.472
21	61.408	61.408	78.663	78.663	84.415	84.415	145.146	145.146	171.463	171.463	186.824	186.824	202.185	202.185
23	61.372	61.372	77.367	77.367	82.698	82.698	139.697	139.697	166.368	166.368	181.133	181.133	195.898	195.898
25	61.336	61.336	76.070	76.070	80.981	80.981	134.249	134.249	161.273	161.273	175.442	175.442	189.612	189.612
27	61.300	61.300	74.773	74.773	79.264	79.264	128.800	128.800	156.179	156.179	169.752	169.752	183.325	183.325

MODEL : MDB600ER4 ~ MMC150ER x 4

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	84.968	84.968	106.910	106.910	114.224	114.224	194.677	194.677	238.561	238.561	260.503	260.503	282.445	282.445
17	82.697	82.697	104.698	104.698	112.032	112.032	189.332	189.332	232.052	232.052	253.232	253.232	274.411	274.411
19	80.426	80.426	102.487	102.487	109.840	109.840	183.987	183.987	225.542	225.542	245.960	245.960	266.378	266.378
21	78.156	78.156	100.275	100.275	107.648	107.648	178.641	178.641	219.033	219.033	238.689	238.689	258.345	258.345
23	78.132	78.132	98.625	98.625	105.456	105.456	174.034	174.034	212.524	212.524	231.418	231.418	250.312	250.312
25	78.109	78.109	96.976	96.976	103.265	103.265	169.428	169.428	206.014	206.014	224.146	224.146	242.279	242.279
27	78.085	78.085	95.326	95.326	101.073	101.073	164.821	164.821	199.505	199.505	216.875	216.875	234.246	234.246

R22
MDB ~ ER SERIES (HEATING MODE)
MODEL : MDB75ER ~ MMC75FR

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	10,677	10,677	13,254	13,254	14,112	14,112	23,559	23,559	28,711	28,711	31,287	31,287	33,864	33,864
17	10,437	10,437	12,994	12,994	13,846	13,846	22,498	22,498	27,930	27,930	30,415	30,415	32,901	32,901
19	10,196	10,196	12,733	12,733	13,579	13,579	21,437	21,437	27,148	27,148	29,543	29,543	31,938	31,938
21	9,956	9,956	12,473	12,473	13,312	13,312	20,376	20,376	26,367	26,367	28,671	28,671	30,975	30,975
23	9,910	9,910	12,262	12,262	13,046	13,046	20,262	20,262	25,586	25,586	27,799	27,799	30,012	30,012
25	9,864	9,864	12,050	12,050	12,779	12,779	20,147	20,147	24,804	24,804	26,926	26,926	29,049	29,049
27	9,819	9,819	11,839	11,839	12,512	12,512	20,033	20,033	24,023	24,023	26,054	26,054	28,085	28,085

MODEL : MDB100ER ~ MMC100FR

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	13,784	13,784	17,126	17,126	18,240	18,240	30,495	30,495	37,180	37,180	40,522	40,522	43,864	43,864
17	13,469	13,469	16,789	16,789	17,895	17,895	29,634	29,634	36,168	36,168	39,392	39,392	42,617	42,617
19	13,155	13,155	16,451	16,451	17,550	17,550	28,774	28,774	35,156	35,156	38,263	38,263	41,369	41,369
21	12,840	12,840	16,114	16,114	17,205	17,205	27,913	27,913	34,144	34,144	37,133	37,133	40,122	40,122
23	12,785	12,785	15,841	15,841	16,860	16,860	27,225	27,225	33,132	33,132	36,003	36,003	38,875	38,875
25	12,730	12,730	15,568	15,568	16,515	16,515	26,537	26,537	32,120	32,120	34,873	34,873	37,627	37,627
27	12,675	12,675	15,296	15,296	16,170	16,170	25,849	25,849	31,107	31,107	33,744	33,744	36,380	36,380

MODEL : MDB125ER ~ MMC125FR

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	16.152	16.152	20.283	20.283	21.660	21.660	36.808	36.808	45.070	45.070	49.201	49.201	53.332	53.332
17	15.730	15.730	19.867	19.867	21.246	21.246	36.076	36.076	43.841	43.841	47.828	47.828	51.816	51.816
19	15.309	15.309	19.450	19.450	20.831	20.831	35.344	35.344	42.611	42.611	46.455	46.455	50.299	50.299
21	14.887	14.887	19.034	19.034	20.416	20.416	34.612	34.612	41.382	41.382	45.082	45.082	48.782	48.782
23	14.873	14.873	18.719	18.719	20.001	20.001	33.449	33.449	40.153	40.153	43.709	43.709	47.265	47.265
25	14.859	14.859	18.405	18.405	19.587	19.587	32.286	32.286	38.923	38.923	42.336	42.336	45.748	45.748
27	14.845	14.845	18.090	18.090	19.172	19.172	31.124	31.124	37.694	37.694	40.963	40.963	44.231	44.231

R407C
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB075ER ~ M4MC075ER

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
1550	16°C	21°C	20.17	14.27	6.10	19.46	13.90	6.59	18.74	13.52	7.14	17.98	13.14	7.74	16.51	12.22	8.40	15.25	11.50	9.26
		24°C	20.20	17.09	6.10	19.48	16.70	6.59	18.76	16.31	7.14	18.01	15.90	7.75	16.55	14.85	8.40	15.31	14.01	9.26
		27°C	20.36	19.37	6.11	19.68	18.93	6.61	18.99	18.49	7.16	18.27	18.02	7.76	16.86	16.76	8.43	15.69	15.69	9.30
		30°C	20.99	20.99	6.14	20.38	20.38	6.64	19.77	19.77	7.20	19.13	19.13	7.82	17.73	17.73	8.50	16.59	16.59	9.39
	19°C	24°C	22.25	13.32	6.19	21.47	12.99	6.70	20.68	12.64	7.26	19.86	12.28	7.88	18.26	11.44	8.55	16.88	10.77	9.42
		27°C	22.27	15.24	6.19	21.48	14.90	6.70	20.70	14.56	7.27	19.88	14.21	7.88	18.27	13.29	8.55	16.90	12.59	9.42
		30°C	22.30	18.81	6.20	21.53	18.41	6.71	20.77	18.00	7.27	19.98	17.57	7.89	18.40	16.43	8.56	17.07	15.55	9.44
		33°C	22.57	22.57	6.21	21.83	21.83	6.73	21.12	21.12	7.29	20.40	20.40	7.92	18.88	18.88	8.60	17.65	17.65	9.50
	22°C	27°C	24.48	13.04	6.31	23.63	12.73	6.83	22.77	12.41	7.40	21.88	12.07	8.03	20.12	11.24	8.71	18.63	10.60	9.60
		30°C	24.49	15.89	6.31	23.64	15.55	6.83	22.78	15.20	7.41	21.89	14.84	8.03	20.13	13.89	8.71	18.63	13.17	9.60
		33°C	24.50	18.56	6.31	23.65	18.21	6.83	22.79	17.85	7.41	21.90	17.48	8.03	20.15	16.41	8.72	18.68	15.59	9.61
		36°C	24.58	21.05	6.31	23.77	20.63	6.84	22.94	20.20	7.42	22.11	19.75	8.05	20.39	18.52	8.74	18.96	17.57	9.63
2060	16°C	21°C	21.00	14.89	6.15	20.24	14.51	6.65	19.47	14.12	7.20	18.68	13.72	7.81	17.14	12.78	8.47	15.81	12.03	9.34
		24°C	21.06	18.07	6.15	20.30	17.65	6.66	19.54	17.23	7.21	18.75	16.80	7.82	17.23	15.67	8.48	15.93	14.79	9.35
		27°C	21.31	20.53	6.17	20.60	20.05	6.67	19.89	19.53	7.23	19.17	18.95	7.85	17.70	17.60	8.52	16.49	16.47	9.40
		30°C	22.20	22.20	6.21	21.56	21.56	6.73	20.90	20.90	7.30	20.22	20.22	7.92	18.74	18.74	8.61	17.51	17.51	9.50
	19°C	24°C	23.13	14.09	6.25	22.31	13.73	6.77	21.47	13.38	7.33	20.61	13.01	7.95	18.92	12.12	8.62	17.48	11.43	9.50
		27°C	23.17	16.23	6.25	22.34	15.87	6.77	21.51	15.51	7.33	20.65	15.14	7.95	18.97	14.15	8.63	17.54	13.40	9.51
		30°C	23.28	20.02	6.26	22.47	19.58	6.78	21.67	19.15	7.35	20.84	18.68	7.97	19.19	17.46	8.65	17.80	16.50	9.53
		33°C	23.67	23.67	6.28	22.95	22.95	6.81	22.22	22.22	7.38	21.48	21.48	8.02	19.90	19.90	8.71	18.60	18.60	9.62
	22°C	27°C	25.41	13.79	6.37	24.52	13.47	6.90	23.61	13.13	7.48	22.67	12.77	8.11	20.83	11.91	8.79	19.27	11.24	9.69
		30°C	25.45	16.93	6.37	24.55	16.57	6.90	23.63	16.20	7.48	22.70	15.83	8.11	20.86	14.82	8.80	19.30	14.07	9.69
		33°C	25.49	19.83	6.37	24.61	19.45	6.90	23.70	19.06	7.49	22.77	18.65	8.12	20.95	17.49	8.81	19.42	16.61	9.70
		36°C	25.65	22.42	6.38	24.82	22.00	6.92	23.95	21.54	7.50	23.08	21.04	8.14	21.30	19.69	8.84	19.86	18.57	9.75
2250	16°C	21°C	21.77	15.54	6.20	20.97	15.14	6.71	20.17	14.74	7.26	19.33	14.33	7.87	17.73	13.35	8.54	16.34	12.56	9.41
		24°C	21.89	18.88	6.21	21.09	18.43	6.72	20.30	17.98	7.27	19.48	17.51	7.89	17.89	16.34	8.55	16.53	15.40	9.43
		27°C	22.24	21.63	6.23	21.51	21.08	6.74	20.78	20.49	7.30	20.04	19.85	7.93	18.52	18.39	8.61	17.26	17.17	9.50
		30°C	23.35	23.35	6.28	22.67	22.67	6.80	21.97	21.97	7.38	21.25	21.25	8.01	19.67	19.67	8.70	18.37	18.37	9.61
	19°C	24°C	23.96	14.90	6.30	23.10	14.53	6.82	22.22	14.16	7.39	21.31	13.78	8.02	19.56	12.84	8.69	18.06	12.11	9.58
		27°C	24.03	17.24	6.31	23.17	16.85	6.83	22.30	16.45	7.40	21.40	16.05	8.02	19.65	15.01	8.70	18.16	14.20	9.59
		30°C	24.23	21.22	6.32	23.37	20.76	6.84	22.54	20.28	7.42	21.67	19.77	8.04	19.96	18.47	8.73	18.53	17.41	9.62
		33°C	24.76	24.76	6.35	24.03	24.03	6.88	23.29	23.29	7.47	22.52	22.52	8.11	20.87	20.87	8.81	19.52	19.52	9.73
	22°C	27°C	26.29	14.58	6.42	25.36	14.26	6.96	24.41	13.90	7.54	23.42	13.54	8.18	21.52	12.63	8.87	19.89	11.93	9.76
		30°C	26.35	17.97	6.43	25.41	17.63	6.96	24.46	17.25	7.55	23.47	16.86	8.18	21.57	15.78	8.87	19.95	14.96	9.77
		33°C	26.44	21.06	6.43	25.53	20.69	6.97	24.59	20.26	7.56	23.62	19.81	8.20	21.73	18.57	8.89	20.13	17.62	9.79
		36°C	26.68	23.78	6.45	25.84	23.35	6.99	24.95	22.84	7.58	24.05	22.27	8.23	22.22	20.77	8.93	20.73	19.56	9.86

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB100ER ~ M4MC100ER

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
2600	16°C	21°C	25.16	18.28	8.06	24.27	17.80	8.72	23.36	17.32	9.44	22.43	16.83	10.24	20.59	15.66	11.11	19.01	14.73	12.25
		24°C	25.19	21.89	8.06	24.29	21.39	8.72	23.39	20.89	9.45	22.46	20.37	10.24	20.63	19.02	11.11	19.09	17.95	12.25
		27°C	25.39	24.82	8.08	24.54	24.25	8.74	23.68	23.68	9.46	22.79	22.79	10.27	21.03	21.03	11.14	19.56	19.56	12.30
		30°C	26.17	26.17	8.11	25.42	25.42	8.79	24.65	24.65	9.53	23.85	23.85	10.35	22.11	22.11	11.24	20.69	20.69	12.41
	19°C	24°C	27.75	17.07	8.19	26.77	16.63	8.87	25.79	16.19	9.61	24.77	15.73	10.42	22.76	14.65	11.30	21.05	13.80	12.46
		27°C	27.77	19.53	8.19	26.79	19.09	8.87	25.81	18.65	9.61	24.79	18.20	10.42	22.79	17.02	11.30	21.07	16.13	12.46
		30°C	27.81	24.09	8.19	26.85	23.58	8.87	25.90	23.06	9.62	24.92	22.50	10.43	22.94	21.05	11.32	21.28	19.92	12.48
		33°C	28.14	28.14	8.21	27.22	27.22	8.89	26.34	26.34	9.64	25.44	25.44	10.47	23.54	23.54	11.37	22.01	22.01	12.56
	22°C	27°C	30.53	16.70	8.34	29.47	16.30	9.03	28.40	15.89	9.79	27.29	15.45	10.62	25.09	14.40	11.52	23.23	13.58	12.70
		30°C	30.54	20.36	8.34	29.48	19.92	9.03	28.40	19.47	9.79	27.29	19.01	10.62	25.10	17.79	11.52	23.23	16.87	12.70
		33°C	30.55	23.77	8.34	29.49	23.32	9.04	28.42	22.86	9.80	27.31	22.39	10.63	25.13	21.01	11.53	23.29	19.96	12.70
		36°C	30.65	26.96	8.35	29.64	26.42	9.05	28.61	25.87	9.81	27.57	25.30	10.65	25.42	23.72	11.55	23.64	22.50	12.74
2800	16°C	21°C	26.17	19.05	8.13	25.22	18.56	8.80	24.27	18.07	9.53	23.28	17.56	10.33	21.36	16.35	11.20	19.70	15.39	12.35
		24°C	26.25	23.13	8.14	25.30	22.59	8.80	24.36	22.05	9.53	23.37	21.49	10.34	21.47	20.05	11.21	19.85	18.92	12.36
		27°C	26.56	26.27	8.16	25.67	25.66	8.83	24.78	24.78	9.56	23.89	23.89	10.38	22.06	22.06	11.27	20.55	20.55	12.43
		30°C	27.67	27.67	8.21	26.87	26.87	8.90	26.05	26.05	9.65	25.20	25.20	10.48	23.35	23.35	11.38	21.83	21.83	12.57
	19°C	24°C	28.83	18.03	8.27	27.80	17.57	8.95	26.76	17.12	9.69	25.68	16.64	10.51	23.58	15.51	11.40	21.79	14.62	12.56
		27°C	28.88	20.76	8.27	27.85	20.30	8.95	26.81	19.84	9.70	25.73	19.37	10.52	23.64	18.11	11.41	21.86	17.15	12.57
		30°C	29.02	25.61	8.28	28.01	25.06	8.96	27.00	24.50	9.71	25.97	23.90	10.54	23.91	22.35	11.43	22.19	21.11	12.60
		33°C	29.50	29.50	8.31	28.60	28.60	9.00	27.69	27.69	9.76	26.77	26.77	10.60	24.80	24.80	11.52	23.18	23.18	12.72
	22°C	27°C	31.67	17.65	8.42	30.56	17.23	9.12	29.42	16.80	9.89	28.25	16.34	10.72	25.96	15.24	11.63	24.01	14.38	12.81
		30°C	31.71	21.66	8.42	30.59	21.21	9.12	29.45	20.73	9.89	28.29	20.25	10.73	26.00	18.97	11.63	24.05	18.00	12.81
		33°C	31.77	25.38	8.42	30.67	24.89	9.13	29.54	24.38	9.90	28.38	23.87	10.74	26.11	22.39	11.65	24.20	21.25	12.83
		36°C	31.97	28.69	8.44	30.93	28.14	9.15	29.85	27.56	9.92	28.77	26.92	10.77	26.54	25.19	11.68	24.75	23.76	12.89
3000	16°C	21°C	27.13	19.88	8.20	26.14	19.37	8.87	25.13	18.86	9.60	24.09	18.34	10.41	22.10	17.08	11.29	20.37	16.07	12.44
		24°C	27.28	24.16	8.21	26.28	23.58	8.88	25.30	23.00	9.62	24.27	22.40	10.43	22.29	20.90	11.31	20.59	19.71	12.46
		27°C	27.71	27.68	8.23	26.81	26.81	8.91	25.90	25.90	9.66	24.97	24.97	10.48	23.08	23.08	11.38	21.51	21.51	12.56
		30°C	29.10	29.10	8.31	28.25	28.25	9.00	27.38	27.38	9.76	26.48	26.48	10.60	24.52	24.52	11.51	22.90	22.90	12.71
	19°C	24°C	29.86	19.07	8.34	28.78	18.60	9.02	27.69	18.12	9.78	26.56	17.63	10.60	24.38	16.43	11.49	22.51	15.50	12.66
		27°C	29.95	22.06	8.34	28.88	21.56	9.03	27.79	21.05	9.78	26.67	20.54	10.61	24.49	19.21	11.51	22.63	18.17	12.68
		30°C	30.20	27.15	8.36	29.13	26.56	9.05	28.09	25.95	9.81	27.01	25.30	10.64	24.87	23.63	11.54	23.09	22.27	12.72
		33°C	30.85	30.85	8.40	29.95	29.95	9.10	29.03	29.03	9.88	28.07	28.07	10.72	26.01	26.01	11.65	24.32	24.32	12.86
	22°C	27°C	32.77	18.65	8.49	31.61	18.24	9.20	30.42	17.79	9.97	29.19	17.32	10.81	26.81	16.16	11.72	24.78	15.26	12.91
		30°C	32.84	22.99	8.50	31.67	22.56	9.20	30.48	22.07	9.98	29.25	21.57	10.82	26.88	20.20	11.73	24.86	19.15	12.92
		33°C	32.95	26.95	8.51	31.81	26.48	9.22	30.64	25.92	9.99	29.44	25.35	10.84	27.08	23.76	11.75	25.09	22.55	12.95
		36°C	33.24	30.43	8.52	32.20	29.88	9.24	31.09	29.22	10.02	29.97	28.50	10.88	27.69	26.58	11.81	25.83	25.02	13.03

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R407C
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB125ER ~ M4MC125ER

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
3375	16°C	21°C	31.28	23.53	9.49	30.29	23.01	10.14	29.23	22.46	10.90	28.10	21.88	11.76	25.29	19.97	12.73	23.49	18.89	14.01
		24°C	31.40	28.03	9.50	30.41	27.45	10.15	29.36	26.83	10.91	28.23	26.18	11.78	25.42	23.96	12.74	23.61	22.77	14.03
		27°C	31.51	31.51	9.51	30.55	30.55	10.17	29.53	29.53	10.93	28.48	28.48	11.80	25.78	25.78	12.78	24.19	24.19	14.10
		30°C	32.76	32.76	9.61	31.94	31.94	10.28	31.05	31.05	11.06	30.10	30.10	11.95	27.34	27.34	12.95	25.71	25.71	14.28
	19°C	24°C	34.36	22.23	9.73	33.30	21.75	10.39	32.15	21.23	11.16	30.94	20.69	12.03	27.87	18.92	13.00	25.91	17.95	14.30
		27°C	34.45	25.97	9.74	33.38	25.44	10.40	32.24	24.88	11.17	31.03	24.28	12.04	27.97	22.24	13.01	26.02	21.16	14.31
		30°C	34.58	31.69	9.75	33.49	31.12	10.41	32.34	30.51	11.18	31.12	29.88	12.05	28.07	27.47	13.03	26.13	26.13	14.32
		33°C	34.78	34.78	9.76	33.79	33.79	10.44	32.81	32.81	11.22	31.82	31.82	12.12	28.94	28.94	13.12	27.25	27.25	14.46
	22°C	27°C	37.70	20.89	9.99	36.51	20.42	10.67	35.27	19.95	11.45	33.96	19.45	12.33	30.63	17.80	13.31	28.52	16.91	14.62
		30°C	37.76	25.82	10.00	36.57	25.31	10.68	35.34	24.77	11.46	34.03	24.20	12.34	30.70	22.18	13.32	28.60	21.13	14.62
		33°C	37.86	30.08	10.01	36.68	29.55	10.69	35.44	28.99	11.47	34.13	28.40	12.35	30.80	26.12	13.33	28.70	24.99	14.64
		36°C	37.97	34.26	10.02	36.79	33.71	10.70	35.53	33.14	11.48	34.23	32.56	12.36	30.92	29.99	13.34	28.95	28.58	14.67
3750	16°C	21°C	31.94	24.48	9.54	30.91	23.96	10.20	29.81	23.38	10.95	28.64	22.75	11.82	25.78	20.75	12.78	23.93	19.61	14.06
		24°C	32.10	29.18	9.56	31.08	28.59	10.21	29.99	27.96	10.97	28.82	27.29	11.83	25.94	24.99	12.80	24.06	23.76	14.08
		27°C	32.32	32.32	9.57	31.37	31.37	10.23	30.38	30.38	11.00	29.40	29.40	11.89	26.67	26.67	12.87	25.01	25.01	14.19
		30°C	34.00	34.00	9.70	33.12	33.12	10.38	32.18	32.18	11.16	31.18	31.18	12.06	28.31	28.31	13.05	26.60	26.60	14.38
	19°C	24°C	35.06	23.11	9.79	33.95	22.62	10.45	32.76	22.10	11.22	31.50	21.56	12.09	28.37	19.72	13.06	26.38	18.73	14.35
		27°C	35.20	27.05	9.80	34.08	26.50	10.46	32.90	25.93	11.23	31.65	25.32	12.10	28.51	23.20	13.07	26.51	22.09	14.37
		30°C	35.36	33.17	9.81	34.23	32.59	10.48	33.03	31.97	11.24	31.79	31.33	12.12	28.66	28.66	13.09	26.73	26.73	14.40
		33°C	35.91	35.91	9.85	34.99	34.99	10.54	34.02	34.02	11.33	32.99	32.99	12.23	29.99	29.99	13.24	28.23	28.23	14.58
	22°C	27°C	38.43	21.69	10.05	37.20	21.23	10.73	35.91	20.75	11.51	34.56	20.25	12.39	31.15	18.55	13.37	29.00	17.65	14.67
		30°C	38.52	26.94	10.06	37.29	26.40	10.74	36.01	25.85	11.52	34.66	25.26	12.40	31.26	23.17	13.38	29.11	22.08	14.68
		33°C	38.67	31.51	10.07	37.44	30.96	10.75	36.15	30.38	11.53	34.80	29.79	12.42	31.38	27.41	13.40	29.23	26.25	14.70
		36°C	38.80	36.02	10.09	37.57	35.47	10.77	36.30	34.83	11.55	35.05	34.09	12.44	31.77	31.52	13.44	29.87	29.87	14.78
4125	16°C	21°C	32.50	25.15	9.59	31.44	24.56	10.24	30.31	23.94	11.00	29.12	23.28	11.86	26.19	21.23	12.82	24.30	20.07	14.11
		24°C	32.71	29.97	9.60	31.65	29.36	10.26	30.52	28.73	11.02	29.32	28.05	11.88	26.37	25.70	12.84	24.46	24.46	14.13
		27°C	33.17	33.17	9.64	32.24	32.24	10.31	31.30	31.30	11.08	30.28	30.28	11.97	27.45	27.45	12.96	25.73	25.73	14.28
		30°C	35.09	35.09	9.79	34.16	34.16	10.47	33.18	33.18	11.26	32.13	32.13	12.15	29.16	29.16	13.15	27.39	27.39	14.48
	19°C	24°C	35.65	24.18	9.83	34.50	23.69	10.50	33.28	23.16	11.26	31.98	22.59	12.13	28.79	20.65	13.10	26.75	19.56	14.40
		27°C	35.83	28.31	9.85	34.68	27.75	10.51	33.45	27.15	11.28	32.17	26.53	12.15	28.96	24.32	13.12	26.91	23.17	14.42
		30°C	36.02	34.88	9.86	34.84	34.27	10.53	33.64	33.63	11.30	32.39	32.39	12.17	29.26	29.26	13.16	27.40	27.40	14.48
		33°C	37.07	37.07	9.95	36.11	36.11	10.64	35.10	35.10	11.43	34.03	34.03	12.34	30.91	30.91	13.34	29.08	29.08	14.68
	22°C	27°C	39.04	22.69	10.10	37.78	22.23	10.78	36.45	21.74	11.56	35.06	21.25	12.44	31.60	19.48	13.42	29.40	18.54	14.72
		30°C	39.17	28.22	10.12	37.91	27.67	10.80	36.60	27.09	11.57	35.21	26.48	12.45	31.74	24.30	13.43	29.54	23.18	14.74
		33°C	39.36	33.14	10.13	38.09	32.58	10.81	36.76	31.99	11.59	35.37	31.37	12.47	31.87	28.89	13.45	29.67	27.69	14.76
		36°C	39.55	37.96	10.15	38.37	37.25	10.83	37.16	36.43	11.63	35.96	35.48	12.53	32.69	32.63	13.55	30.80	30.80	14.90

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB150ER ~ M4MC150ER

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
4050	16°C	21°C	42.00	30.02	12.74	40.67	29.36	13.61	39.25	28.66	14.63	37.74	27.91	15.79	33.96	25.48	17.08	31.54	24.10	18.81
		24°C	42.16	35.76	12.75	40.83	35.01	13.63	39.42	34.23	14.65	37.91	33.39	15.80	34.14	30.56	17.10	31.70	29.04	18.83
		27°C	42.32	41.16	12.77	41.03	40.39	13.64	39.65	39.56	14.66	38.24	38.24	15.84	34.62	34.62	17.15	32.49	32.49	18.92
		30°C	44.00	44.00	12.89	42.89	42.89	13.80	41.69	41.69	14.85	40.42	40.42	16.04	36.71	36.71	17.38	34.52	34.52	19.16
	19°C	24°C	46.14	28.36	13.06	44.71	27.74	13.95	43.17	27.09	14.98	41.54	26.40	16.15	37.42	24.13	17.45	34.79	22.90	19.19
		27°C	46.26	33.13	13.07	44.82	32.45	13.96	43.29	31.73	14.99	41.67	30.98	16.16	37.56	28.37	17.46	34.94	26.99	19.21
		30°C	46.44	40.43	13.08	44.98	39.69	13.98	43.43	38.92	15.01	41.79	38.11	16.18	37.69	35.04	17.48	35.08	33.50	19.22
		33°C	46.71	46.71	13.10	45.38	45.38	14.01	44.05	44.05	15.06	42.73	42.73	16.26	38.86	38.86	17.61	36.60	36.60	19.41
	22°C	27°C	50.63	26.64	13.41	49.03	26.06	14.32	47.36	25.45	15.37	45.61	24.81	16.55	41.14	22.70	17.86	38.30	21.57	19.61
		30°C	50.70	32.93	13.42	49.10	32.28	14.33	47.45	31.60	15.37	45.70	30.87	16.55	41.22	28.30	17.87	38.40	26.96	19.62
		33°C	50.84	38.38	13.43	49.25	37.69	14.34	47.59	36.98	15.39	45.84	36.23	16.57	41.35	33.32	17.89	38.53	31.88	19.64
		36°C	50.98	43.70	13.44	49.40	43.01	14.36	47.71	42.28	15.40	45.97	41.53	16.59	41.52	38.26	17.91	38.87	36.46	19.68
4500	16°C	21°C	42.88	31.23	12.81	41.51	30.56	13.68	40.03	29.83	14.70	38.46	29.02	15.86	34.62	26.47	17.15	32.13	25.01	18.87
		24°C	43.11	37.22	12.83	41.73	36.47	13.70	40.27	35.66	14.72	38.70	34.81	15.88	34.83	31.88	17.17	32.31	30.31	18.90
		27°C	43.40	43.15	12.85	42.12	42.12	13.73	40.80	40.80	14.77	39.48	39.48	15.95	35.81	35.81	17.28	33.59	33.59	19.05
		30°C	45.65	45.65	13.02	44.48	44.48	13.93	43.22	43.22	14.98	41.87	41.87	16.18	38.02	38.02	17.52	35.73	35.73	19.30
	19°C	24°C	47.08	29.48	13.13	45.59	28.86	14.02	43.99	28.19	15.05	42.30	27.50	16.22	38.09	25.16	17.53	35.42	23.90	19.26
		27°C	47.26	34.50	13.15	45.77	33.81	14.04	44.18	33.07	15.07	42.50	32.30	16.24	38.28	29.60	17.54	35.60	28.18	19.28
		30°C	47.48	42.32	13.16	45.96	41.57	14.06	44.36	40.79	15.09	42.69	39.97	16.26	38.48	36.74	17.57	35.89	34.94	19.32
		33°C	48.22	48.22	13.22	46.99	46.99	14.14	45.69	45.69	15.21	44.30	44.30	16.42	40.27	40.27	17.77	37.90	37.90	19.57
	22°C	27°C	51.60	27.67	13.49	49.95	27.08	14.40	48.23	26.48	15.45	46.40	25.84	16.63	41.83	23.66	17.94	38.94	22.52	19.69
		30°C	51.73	34.37	13.50	50.08	33.68	14.41	48.36	32.97	15.46	46.55	32.22	16.64	41.97	29.55	17.96	39.09	28.17	19.71
		33°C	51.93	40.19	13.52	50.28	39.49	14.43	48.55	38.76	15.48	46.73	38.00	16.66	42.14	34.97	17.98	39.25	33.49	19.73
		36°C	52.11	45.95	13.54	50.45	45.24	14.45	48.75	44.43	15.50	47.06	43.49	16.69	42.66	40.21	18.04	40.11	38.34	19.84
4950	16°C	21°C	43.64	32.08	12.86	42.21	31.33	13.74	40.70	30.54	14.76	39.11	29.70	15.92	35.17	27.08	17.21	32.63	25.60	18.94
		24°C	43.92	38.23	12.89	42.49	37.46	13.77	40.98	36.65	14.78	39.37	35.78	15.94	35.40	32.78	17.24	32.85	31.20	18.96
		27°C	44.54	44.54	12.93	43.30	43.30	13.83	42.02	42.02	14.88	40.66	40.66	16.06	36.85	36.85	17.39	34.55	34.55	19.16
		30°C	47.12	47.12	13.14	45.88	45.88	14.05	44.56	44.56	15.11	43.15	43.15	16.30	39.16	39.16	17.64	36.78	36.78	19.43
	19°C	24°C	47.87	30.85	13.19	46.33	30.22	14.09	44.68	29.54	15.12	42.95	28.82	16.28	38.67	26.34	17.58	35.92	24.96	19.32
		27°C	48.11	36.11	13.21	46.57	35.39	14.11	44.92	34.63	15.14	43.19	33.84	16.31	38.89	31.03	17.61	36.14	29.56	19.35
		30°C	48.36	44.49	13.23	46.78	43.72	14.13	45.18	42.90	15.16	43.49	41.97	16.34	39.30	38.38	17.66	36.79	36.24	19.43
		33°C	49.78	49.78	13.35	48.49	48.49	14.28	47.14	47.14	15.35	45.69	45.69	16.56	41.51	41.51	17.91	39.05	39.05	19.71
	22°C	27°C	52.42	28.95	13.56	50.73	28.35	14.47	48.94	27.73	15.52	47.08	27.10	16.69	42.43	24.86	18.01	39.48	23.65	19.76
		30°C	52.60	36.00	13.58	50.91	35.29	14.49	49.14	34.55	15.53	47.28	33.78	16.72	42.62	31.00	18.03	39.67	29.57	19.78
		33°C	52.85	42.28	13.60	51.14	41.56	14.51	49.36	40.81	15.56	47.49	40.02	16.74	42.80	36.86	18.06	39.85	35.32	19.81
		36°C	53.11	48.42	13.62	51.52	47.52	14.54	49.90	46.48	15.61	48.29	45.27	16.82	43.89	41.62	18.18	41.35	39.52	20.00

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R407C
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB150ER2 ~ M4MC075ER x 2

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
4050	16°C	21°C	42.28	29.83	12.77	40.95	29.17	13.65	39.52	28.47	14.67	37.99	27.73	15.83	34.19	25.32	17.12	31.76	23.95	18.85
		24°C	42.45	35.53	12.78	41.11	34.79	13.66	39.69	34.01	14.68	38.17	33.18	15.84	34.37	30.37	17.14	31.92	28.86	18.87
		27°C	42.61	40.89	12.80	41.31	40.13	13.68	39.92	39.30	14.70	38.50	38.29	15.88	34.85	34.85	17.19	32.71	32.71	18.97
		30°C	44.30	44.30	12.92	43.18	43.18	13.83	41.98	41.98	14.88	40.69	40.69	16.08	36.97	36.97	17.42	34.76	34.76	19.21
	19°C	24°C	46.46	28.18	13.09	45.01	27.56	13.98	43.47	26.91	15.02	41.83	26.23	16.19	37.68	23.97	17.49	35.03	22.75	19.24
		27°C	46.58	32.91	13.10	45.13	32.24	13.99	43.59	31.53	15.03	41.95	30.78	16.20	37.81	28.19	17.51	35.18	26.81	19.25
		30°C	46.76	40.17	13.11	45.28	39.44	14.01	43.73	38.67	15.04	42.08	37.87	16.22	37.94	34.81	17.53	35.32	33.29	19.27
		33°C	47.03	47.03	13.13	45.69	45.69	14.04	44.35	44.35	15.10	43.02	43.02	16.30	39.12	39.12	17.66	36.85	36.85	19.46
	22°C	27°C	50.97	26.47	13.45	49.36	25.89	14.36	47.69	25.29	15.41	45.92	24.66	16.59	41.42	22.56	17.91	38.56	21.43	19.66
		30°C	51.04	32.72	13.45	49.44	32.07	14.37	47.77	31.40	15.41	46.01	30.67	16.60	41.50	28.12	17.92	38.66	26.79	19.67
		33°C	51.19	38.13	13.47	49.59	37.45	14.38	47.91	36.74	15.43	46.15	36.00	16.61	41.64	33.11	17.93	38.80	31.68	19.69
		36°C	51.33	43.42	13.48	49.73	42.73	14.39	48.04	42.01	15.44	46.28	41.27	16.63	41.80	38.01	17.95	39.14	36.23	19.73
4500	16°C	21°C	43.18	31.03	12.84	41.79	30.36	13.72	40.30	29.64	14.74	38.73	28.83	15.90	34.85	26.30	17.19	32.35	24.85	18.92
		24°C	43.40	36.98	12.86	42.02	36.23	13.74	40.54	35.43	14.76	38.96	34.59	15.92	35.07	31.67	17.22	32.53	30.12	18.95
		27°C	43.70	42.88	12.88	42.41	41.96	13.77	41.08	40.87	14.81	39.75	39.59	15.99	36.05	36.05	17.32	33.82	33.82	19.10
		30°C	45.97	45.97	13.05	44.78	44.78	13.97	43.51	43.51	15.02	42.16	42.16	16.22	38.28	38.28	17.56	35.97	35.97	19.35
	19°C	24°C	47.40	29.29	13.17	45.91	28.67	14.06	44.29	28.01	15.09	42.59	27.32	16.26	38.35	25.00	17.57	35.66	23.74	19.31
		27°C	47.58	34.28	13.18	46.08	33.59	14.07	44.48	32.86	15.11	42.79	32.09	16.28	38.54	29.41	17.59	35.84	28.00	19.33
		30°C	47.80	42.05	13.20	46.27	41.31	14.09	44.66	40.52	15.13	42.98	39.72	16.30	38.74	36.50	17.61	36.13	34.72	19.37
		33°C	48.55	48.55	13.25	47.31	47.31	14.18	46.00	46.00	15.25	44.61	44.61	16.46	40.54	40.54	17.81	38.16	38.16	19.62
	22°C	27°C	51.96	27.49	13.53	50.29	26.91	14.44	48.56	26.31	15.49	46.72	25.67	16.67	42.12	23.51	17.99	39.21	22.37	19.74
		30°C	52.08	34.15	13.54	50.42	33.46	14.45	48.69	32.76	15.50	46.86	32.02	16.68	42.26	29.36	18.00	39.36	27.99	19.76
		33°C	52.28	39.93	13.55	50.62	39.24	14.47	48.88	38.51	15.52	47.04	37.75	16.70	42.43	34.75	18.02	39.52	33.28	19.78
		36°C	52.46	45.66	13.57	50.80	44.95	14.49	49.08	44.15	15.54	47.38	43.21	16.74	42.95	39.95	18.08	40.38	38.09	19.89
4950	16°C	21°C	43.94	31.87	12.90	42.50	31.13	13.78	40.98	30.35	14.80	39.38	29.51	15.96	35.41	26.91	17.25	32.85	25.43	18.99
		24°C	44.22	37.98	12.92	42.78	37.22	13.80	41.26	36.41	14.82	39.64	35.55	15.98	35.65	32.57	17.28	33.08	31.00	19.01
		27°C	44.84	44.27	12.96	43.59	43.54	13.87	42.31	42.31	14.91	40.94	40.94	16.10	37.11	37.11	17.43	34.79	34.79	19.21
		30°C	47.44	47.44	13.17	46.19	46.19	14.09	44.86	44.86	15.14	43.45	43.45	16.35	39.43	39.43	17.69	37.03	37.03	19.48
	19°C	24°C	48.20	30.65	13.23	46.64	30.02	14.12	44.99	29.35	15.16	43.24	28.64	16.33	38.93	26.17	17.63	36.17	24.80	19.37
		27°C	48.44	35.88	13.25	46.89	35.17	14.14	45.23	34.41	15.18	43.49	33.62	16.35	39.15	30.83	17.66	36.39	29.37	19.40
		30°C	48.69	44.21	13.27	47.10	43.44	14.17	45.49	42.62	15.20	43.79	41.70	16.38	39.56	38.13	17.70	37.04	36.00	19.48
		33°C	50.12	50.12	13.38	48.82	48.82	14.31	47.46	47.46	15.38	46.00	46.00	16.60	41.79	41.79	17.95	39.31	39.31	19.76
	22°C	27°C	52.78	28.76	13.59	51.07	28.17	14.51	49.28	27.56	15.55	47.40	26.93	16.74	42.72	24.70	18.05	39.74	23.50	19.81
		30°C	52.96	35.77	13.61	51.26	35.07	14.52	49.48	34.33	15.57	47.61	33.56	16.76	42.91	30.80	18.07	39.94	29.38	19.83
		33°C	53.21	42.01	13.63	51.49	41.29	14.55	49.70	40.54	15.60	47.81	39.77	16.78	43.09	36.62	18.10	40.12	35.10	19.86
		36°C	53.47	48.11	13.65	51.87	47.22	14.58	50.24	46.18	15.65	48.61	44.97	16.86	44.19	41.35	18.23	41.64	39.27	20.05

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB200ER2 ~ M4MC100ER x 2

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
5760	16°C	21°C	52.71	38.67	16.50	51.04	37.81	17.63	49.27	36.91	18.95	47.36	35.95	20.44	42.62	32.82	22.12	39.59	31.05	24.36
		24°C	52.92	46.06	16.51	51.25	45.10	17.65	49.47	44.09	18.97	47.58	43.01	20.47	42.85	39.37	22.14	39.79	37.41	24.38
		27°C	53.11	53.01	16.53	51.49	51.49	17.67	49.76	49.76	18.99	47.99	47.99	20.51	43.44	43.44	22.21	40.77	40.77	24.50
		30°C	55.22	55.22	16.70	53.83	53.83	17.87	52.33	52.33	19.23	50.72	50.72	20.77	46.08	46.08	22.50	43.33	43.33	24.81
	19°C	24°C	57.91	36.53	16.91	56.11	35.73	18.06	54.18	34.89	19.40	52.14	34.00	20.91	46.97	31.08	22.60	43.67	29.49	24.85
		27°C	58.06	42.67	16.92	56.25	41.80	18.08	54.33	40.88	19.41	52.30	39.90	20.93	47.14	36.54	22.62	43.86	34.76	24.87
		30°C	58.28	52.07	16.94	56.45	51.13	18.10	54.51	50.14	19.43	52.45	49.10	20.95	47.30	45.13	22.64	44.03	43.15	24.90
		33°C	58.62	58.62	16.97	56.95	56.95	18.14	55.29	55.29	19.50	53.63	53.63	21.06	48.77	48.77	22.81	45.93	45.93	25.13
	22°C	27°C	63.54	34.32	17.37	61.53	33.56	18.55	59.44	32.78	19.90	57.24	31.96	21.43	51.63	29.24	23.13	48.07	27.78	25.40
		30°C	63.63	42.42	17.38	61.63	41.58	18.56	59.55	40.70	19.91	57.35	39.76	21.44	51.73	36.45	23.14	48.19	34.73	25.41
		33°C	63.81	49.43	17.39	61.81	48.55	18.57	59.73	47.63	19.93	57.53	46.67	21.46	51.90	42.92	23.17	48.36	41.07	25.44
		36°C	63.99	56.29	17.41	62.00	55.40	18.59	59.88	54.46	19.95	57.69	53.50	21.48	52.10	49.28	23.19	48.78	46.97	25.49
6400	16°C	21°C	53.82	40.22	16.59	52.10	39.37	17.72	50.24	38.42	19.04	48.28	37.38	20.54	43.45	34.09	22.21	40.32	32.22	24.44
		24°C	54.10	47.95	16.61	52.38	46.97	17.74	50.54	45.94	19.06	48.57	44.84	20.56	43.71	41.06	22.24	40.56	39.04	24.48
		27°C	54.48	54.48	16.64	52.86	52.86	17.78	51.21	51.21	19.12	49.55	49.55	20.66	44.94	44.94	22.37	42.16	42.16	24.67
		30°C	57.30	57.30	16.86	55.83	55.83	18.04	54.24	54.24	19.40	52.55	52.55	20.95	47.71	47.71	22.69	44.84	44.84	25.00
	19°C	24°C	59.09	37.97	17.01	57.22	37.17	18.16	55.21	36.32	19.50	53.09	35.42	21.01	47.81	32.41	22.70	44.45	30.78	24.94
		27°C	59.32	44.44	17.02	57.44	43.55	18.18	55.45	42.60	19.52	53.34	41.61	21.03	48.05	38.13	22.72	44.68	36.30	24.97
		30°C	59.59	54.51	17.05	57.68	53.55	18.21	55.67	52.54	19.54	53.57	51.49	21.06	48.30	47.32	22.75	45.04	45.01	25.02
		33°C	60.52	60.52	17.12	58.97	58.97	18.32	57.34	57.34	19.70	55.61	55.61	21.26	50.54	50.54	23.01	47.57	47.57	25.34
	22°C	27°C	64.76	35.64	17.47	62.69	34.89	18.65	60.53	34.10	20.01	58.24	33.28	21.53	52.50	30.48	23.23	48.87	29.00	25.50
		30°C	64.92	44.27	17.49	62.85	43.38	18.67	60.70	42.47	20.02	58.42	41.51	21.55	52.68	38.07	23.25	49.06	36.29	25.52
		33°C	65.17	51.77	17.51	63.11	50.87	18.69	60.93	49.93	20.05	58.64	48.94	21.58	52.89	45.05	23.28	49.26	43.14	25.55
		36°C	65.40	59.19	17.53	63.32	58.28	18.71	61.18	57.24	20.07	59.07	56.02	21.62	53.54	51.79	23.36	50.34	49.38	25.69
7040	16°C	21°C	54.77	41.32	16.66	52.98	40.36	17.80	51.08	39.34	19.11	49.08	38.26	20.61	44.15	34.88	22.29	40.95	32.97	24.52
		24°C	55.13	49.24	16.69	53.33	48.25	17.83	51.44	47.20	19.15	49.42	46.09	20.65	44.43	42.23	22.32	41.23	40.19	24.56
		27°C	55.90	55.90	16.75	54.34	54.34	17.91	52.74	52.74	19.26	51.03	51.03	20.80	46.25	46.25	22.52	43.37	43.37	24.81
		30°C	59.14	59.14	17.01	57.58	57.58	18.20	55.92	55.92	19.56	54.16	54.16	21.11	49.15	49.15	22.85	46.16	46.16	25.16
	19°C	24°C	60.08	39.73	17.09	58.14	38.92	18.24	56.08	38.06	19.58	53.90	37.13	21.09	48.53	33.93	22.77	45.09	32.15	25.02
		27°C	60.38	46.51	17.11	58.45	45.59	18.27	56.38	44.61	19.61	54.21	43.59	21.12	48.81	39.97	22.81	45.36	38.08	25.06
		30°C	60.70	57.31	17.14	58.72	56.31	18.30	56.70	55.26	19.64	54.58	54.07	21.16	49.32	49.32	22.87	46.17	46.17	25.16
		33°C	62.48	62.48	17.28	60.86	60.86	18.49	59.16	59.16	19.87	57.34	57.34	21.44	52.10	52.10	23.19	49.01	49.01	25.52
	22°C	27°C	65.79	37.28	17.56	63.67	36.52	18.74	61.43	35.72	20.09	59.09	34.91	21.62	53.25	32.02	23.32	49.54	30.47	25.58
		30°C	66.01	46.37	17.58	63.89	45.46	18.76	61.68	44.51	20.12	59.34	43.51	21.65	53.49	39.93	23.35	49.79	38.09	25.62
		33°C	66.33	54.46	17.61	64.19	53.53	18.79	61.95	52.56	20.15	59.60	51.55	21.68	53.72	47.47	23.38	50.01	45.50	25.65
		36°C	66.66	62.37	17.64	64.66	61.21	18.83	62.63	59.87	20.21	60.60	58.31	21.78	55.09	53.61	23.54	51.90	50.91	25.89

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R407C
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB250ER2 ~ M4MC125ER x 2

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
7200	16°C	21°C	62.56	47.07	19.40	60.58	46.03	20.73	58.47	44.93	22.28	56.21	43.76	24.04	50.58	39.95	26.01	46.99	37.79	28.64
		24°C	62.81	56.07	19.42	60.82	54.90	20.75	58.72	53.67	22.30	56.48	52.36	24.07	50.85	47.92	26.04	47.23	45.54	28.67
		27°C	63.04	63.04	19.44	61.11	61.11	20.78	59.06	59.06	22.33	56.97	56.97	24.11	51.57	51.57	26.12	48.39	48.39	28.81
		30°C	65.54	65.54	19.63	63.89	63.89	21.01	62.11	62.11	22.61	60.21	60.21	24.43	54.69	54.69	26.46	51.43	51.43	29.18
	19°C	24°C	68.74	44.47	19.89	66.60	43.50	21.24	64.31	42.47	22.81	61.88	41.39	24.59	55.75	37.84	26.57	51.83	35.90	29.22
		27°C	68.91	51.95	19.90	66.77	50.89	21.26	64.49	49.76	22.83	62.07	48.57	24.61	55.95	44.48	26.60	52.05	42.32	29.25
		30°C	69.18	63.39	19.92	67.00	62.24	21.28	64.70	61.04	22.85	62.26	59.77	24.64	56.14	54.94	26.63	52.26	52.26	29.28
		33°C	69.58	69.58	19.95	67.60	67.60	21.33	65.62	65.62	22.94	63.65	63.65	24.77	57.89	57.89	26.82	54.51	54.51	29.56
	22°C	27°C	75.42	41.78	20.43	73.03	40.86	21.81	70.55	39.91	23.40	67.94	38.91	25.20	61.28	35.60	27.20	57.05	33.82	29.87
		30°C	75.52	51.64	20.44	73.15	50.62	21.82	70.68	49.55	23.41	68.07	48.41	25.21	61.40	44.38	27.22	57.20	42.27	29.88
		33°C	75.73	60.18	20.46	73.37	59.10	21.84	70.89	57.98	23.44	68.28	56.81	25.24	61.60	52.25	27.24	57.40	49.99	29.91
		36°C	75.95	68.52	20.47	73.58	67.44	21.86	71.07	66.30	23.46	68.48	65.13	25.26	61.84	59.99	27.27	57.90	57.18	29.98
8000	16°C	21°C	63.88	48.96	19.50	61.83	47.92	20.84	59.63	46.78	22.39	57.30	45.50	24.15	51.57	41.50	26.12	47.86	39.22	28.74
		24°C	64.21	58.37	19.53	62.17	57.18	20.87	59.98	55.92	22.42	57.65	54.58	24.18	51.88	49.99	26.15	48.14	47.53	28.78
		27°C	64.66	64.66	19.56	62.74	62.74	20.91	60.78	60.78	22.49	58.82	58.82	24.29	53.34	53.34	26.31	50.04	50.04	29.01
		30°C	68.01	68.01	19.83	66.26	66.26	21.21	64.38	64.38	22.82	62.38	62.38	24.64	56.63	56.63	26.68	53.22	53.22	29.39
	19°C	24°C	70.14	46.22	20.00	67.92	45.25	21.36	65.53	44.21	22.93	63.02	43.12	24.70	56.74	39.45	26.69	52.76	37.47	29.33
		27°C	70.40	54.10	20.02	68.18	53.01	21.38	65.81	51.86	22.95	63.31	50.65	24.73	57.03	46.41	26.72	53.03	44.19	29.36
		30°C	70.72	66.36	20.05	68.46	65.19	21.41	66.07	63.95	22.98	63.59	62.68	24.76	57.32	57.32	26.75	53.46	53.46	29.43
		33°C	71.83	71.83	20.13	70.00	70.00	21.54	68.06	68.06	23.16	66.00	66.00	25.00	59.99	59.99	27.06	56.46	56.46	29.80
	22°C	27°C	76.87	43.39	20.55	74.41	42.47	21.93	71.84	41.52	23.53	69.13	40.51	25.32	62.32	37.11	27.32	58.01	35.31	29.99
		30°C	77.05	53.89	20.56	74.60	52.81	21.95	72.04	51.70	23.54	69.34	50.53	25.34	62.52	46.34	27.34	58.23	44.17	30.01
		33°C	77.35	63.02	20.59	74.90	61.93	21.98	72.32	60.78	23.57	69.60	59.58	25.37	62.77	54.84	27.38	58.47	52.52	30.05
		36°C	77.62	72.05	20.61	75.16	70.94	22.01	72.62	69.68	23.60	70.11	68.20	25.42	63.55	63.05	27.47	59.75	59.75	30.21
8800	16°C	21°C	65.01	50.30	19.59	62.88	49.13	20.93	60.63	47.89	22.48	58.26	46.58	24.24	52.40	42.47	26.21	48.60	40.14	28.84
		24°C	65.43	59.94	19.63	63.30	58.73	20.96	61.05	57.46	22.51	58.65	56.11	24.28	52.74	51.40	26.25	48.94	48.93	28.88
		27°C	66.35	66.35	19.69	64.50	64.50	21.07	62.60	62.60	22.65	60.57	60.57	24.46	54.90	54.90	26.48	51.47	51.47	29.18
		30°C	70.20	70.20	20.00	68.34	68.34	21.40	66.38	66.38	23.01	64.28	64.28	24.83	58.33	58.33	26.87	54.79	54.79	29.59
	19°C	24°C	71.31	48.37	20.09	69.01	47.38	21.45	66.56	46.33	23.02	63.97	45.20	24.80	57.60	41.30	26.78	53.52	39.13	29.43
		27°C	71.67	56.62	20.12	69.38	55.50	21.49	66.92	54.31	23.06	64.34	53.06	24.84	57.93	48.65	26.82	53.83	46.36	29.47
		30°C	72.04	69.77	20.15	69.69	68.55	21.52	67.30	67.27	23.09	64.78	64.78	24.88	58.54	58.54	26.89	54.80	54.80	29.59
		33°C	74.16	74.16	20.33	72.24	72.24	21.74	70.22	70.22	23.37	68.06	68.06	25.21	61.83	61.83	27.27	58.17	58.17	30.01
	22°C	27°C	78.09	45.39	20.65	75.56	44.46	22.04	72.91	43.49	23.63	70.14	42.50	25.42	63.21	38.98	27.42	58.80	37.09	30.09
		30°C	78.35	56.45	20.67	75.83	55.34	22.06	73.20	54.18	23.66	70.44	52.97	25.45	63.49	48.61	27.46	59.10	46.37	30.12
		33°C	78.73	66.29	20.71	76.19	65.16	22.10	73.53	63.99	23.69	70.74	62.76	25.49	63.76	57.79	27.50	59.36	55.39	30.16
		36°C	79.12	75.92	20.74	76.75	74.52	22.14	74.33	72.88	23.77	71.93	70.98	25.62	65.39	65.26	27.69	61.60	61.60	30.45

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. [ ] shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB300ER2 ~ M4MC150ER x 2

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
8100	16°C	21°C	83.99	60.03	25.89	81.33	58.71	27.66	78.50	57.30	29.73	75.46	55.81	32.08	67.91	50.95	34.71	63.08	48.20	38.22
		24°C	84.31	71.50	25.91	81.65	70.02	27.69	78.83	68.44	29.76	75.82	66.78	32.11	68.27	61.12	34.75	63.40	58.08	38.26
		27°C	84.62	82.30	25.94	82.04	80.77	27.73	79.29	79.11	29.80	76.47	76.47	32.18	69.22	69.22	34.85	64.97	64.97	38.44
		30°C	87.98	87.98	26.20	85.76	85.76	28.04	83.38	83.38	30.17	80.82	80.82	32.60	73.42	73.42	35.31	69.04	69.04	38.93
	19°C	24°C	92.28	56.71	26.54	89.41	55.48	28.34	86.33	54.17	30.44	83.08	52.79	32.81	74.84	48.25	35.46	69.58	45.79	38.99
		27°C	92.51	66.25	26.55	89.63	64.90	28.37	86.57	63.46	30.46	83.33	61.94	32.83	75.11	56.73	35.49	69.88	53.97	39.03
		30°C	92.87	80.85	26.58	89.94	79.38	28.40	86.85	77.84	30.49	83.58	76.22	32.87	75.36	70.07	35.53	70.16	67.00	39.06
		33°C	93.41	93.41	26.62	90.74	90.74	28.46	88.10	88.10	30.60	85.45	85.45	33.05	77.71	77.71	35.79	73.18	73.18	39.44
	22°C	27°C	101.24	53.28	27.26	98.04	52.10	29.10	94.71	50.89	31.23	91.21	49.62	33.62	82.26	45.40	36.30	76.59	43.13	39.86
		30°C	101.38	65.86	27.27	98.19	64.55	29.12	94.89	63.19	31.24	91.38	61.73	33.64	82.43	56.59	36.31	76.79	53.91	39.88
		33°C	101.67	76.75	27.29	98.49	75.37	29.14	95.17	73.95	31.27	91.66	72.45	33.67	82.70	66.64	36.35	77.06	63.76	39.92
		36°C	101.96	87.39	27.32	98.78	86.01	29.17	95.41	84.55	31.30	91.93	83.06	33.70	83.02	76.51	36.39	77.73	72.92	40.00
9000	16°C	21°C	85.76	62.45	26.02	83.01	61.12	27.80	80.05	59.65	29.87	76.92	58.03	32.22	69.23	52.93	34.85	64.25	50.02	38.35
		24°C	86.20	74.44	26.06	83.45	72.93	27.84	80.52	71.32	29.91	77.39	69.61	32.27	69.65	63.75	34.90	64.62	60.62	38.40
		27°C	86.80	86.30	26.10	84.23	84.23	27.91	81.59	81.59	30.01	78.96	78.96	32.41	71.60	71.60	35.11	67.17	67.17	38.70
		30°C	91.30	91.30	26.46	88.95	88.95	28.31	86.43	86.43	30.45	83.74	83.74	32.88	76.03	76.03	35.60	71.44	71.44	39.22
	19°C	24°C	94.16	58.95	26.69	91.18	57.70	28.50	87.98	56.38	30.59	84.59	54.99	32.96	76.18	50.31	35.61	70.83	47.79	39.14
		27°C	94.51	69.00	26.71	91.53	67.61	28.53	88.35	66.14	30.62	84.99	64.59	33.00	76.56	59.19	35.65	71.19	56.36	39.18
		30°C	94.94	84.63	26.75	91.91	83.14	28.57	88.70	81.56	30.67	85.36	79.93	33.04	76.95	73.47	35.70	71.77	69.88	39.26
		33°C	96.43	96.43	26.86	93.96	93.96	28.74	91.36	91.36	30.91	88.60	88.60	33.36	80.53	80.53	36.10	75.80	75.80	39.76
	22°C	27°C	103.19	55.34	27.42	99.89	54.16	29.27	96.44	52.95	31.39	92.80	51.67	33.79	83.66	47.32	36.46	77.87	45.03	40.01
		30°C	103.44	68.73	27.44	100.15	67.35	29.29	96.71	65.93	31.42	93.08	64.44	33.81	83.94	59.10	36.49	78.17	56.34	40.05
		33°C	103.84	80.37	27.47	100.55	78.98	29.33	97.08	77.51	31.46	93.44	75.98	33.86	84.27	69.94	36.53	78.49	66.98	40.09
		36°C	104.20	91.89	27.51	100.89	90.47	29.36	97.49	88.86	31.50	94.11	86.98	33.92	85.31	80.40	36.65	80.21	76.66	40.32
9900	16°C	21°C	87.27	64.15	26.14	84.42	62.66	27.93	81.39	61.08	29.99	78.21	59.40	32.34	70.34	54.16	34.97	65.25	51.19	38.48
		24°C	87.84	76.44	26.19	84.98	74.90	27.97	81.96	73.28	30.04	78.74	71.56	32.40	70.80	65.56	35.03	65.70	62.40	38.53
		27°C	89.06	89.06	26.28	86.59	86.59	28.11	84.04	84.04	30.23	81.31	81.31	32.64	73.70	73.70	35.34	69.10	69.10	38.94
		30°C	94.23	94.23	26.69	91.74	91.74	28.55	89.11	89.11	30.70	86.29	86.29	33.13	78.31	78.31	35.85	73.55	73.55	39.48
	19°C	24°C	95.73	61.69	26.81	92.64	60.42	28.62	89.35	59.08	30.72	85.88	57.64	33.09	77.32	52.67	35.73	71.84	49.91	39.27
		27°C	96.21	72.21	26.85	93.13	70.78	28.67	89.83	69.26	30.77	86.38	67.67	33.14	77.77	62.05	35.79	72.27	59.12	39.32
		30°C	96.72	88.98	26.89	93.56	87.43	28.72	90.34	85.79	30.81	86.97	83.94	33.20	78.58	76.74	35.88	73.57	72.47	39.49
		33°C	99.55	99.55	27.12	96.98	96.98	29.01	94.26	94.26	31.18	91.37	91.37	33.64	83.01	83.01	36.39	78.09	78.09	40.05
	22°C	27°C	104.83	57.88	27.55	101.44	56.70	29.41	97.88	55.46	31.53	94.15	54.20	33.92	84.85	49.71	36.59	78.94	47.30	40.14
		30°C	105.18	71.99	27.59	101.80	70.58	29.44	98.27	69.10	31.57	94.56	67.56	33.97	85.23	61.99	36.64	79.33	59.14	40.19
		33°C	105.69	84.55	27.63	102.27	83.10	29.48	98.71	81.60	31.61	94.97	80.04	34.02	85.59	73.70	36.69	79.68	70.64	40.25
		36°C	106.21	96.83	27.67	103.03	95.03	29.55	99.79	92.94	31.72	96.56	90.52	34.18	87.78	83.23	36.94	82.70	79.04	40.63

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. [ ] shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R407C
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB300ER3 ~ M4MC100ER x 3

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
8100	16°C	21°C	88.95	65.25	24.67	86.13	63.81	26.37	83.13	62.29	28.33	79.92	60.66	30.57	71.92	55.38	33.08	66.81	52.39	36.42
		24°C	89.29	77.72	24.70	86.48	76.10	26.39	83.49	74.39	28.36	80.30	72.58	30.61	72.30	66.43	33.12	67.15	63.13	36.46
		27°C	89.62	89.46	24.72	86.89	86.89	26.43	83.97	83.97	28.40	80.99	80.99	30.67	73.31	73.31	33.22	68.80	68.80	36.64
		30°C	93.18	93.18	24.97	90.83	90.83	26.72	88.30	88.30	28.75	85.60	85.60	31.07	77.76	77.76	33.65	73.11	73.11	37.10
	19°C	24°C	97.73	61.64	25.29	94.69	60.30	27.02	91.43	58.88	29.01	87.98	57.38	31.27	79.26	52.45	33.80	73.69	49.77	37.16
		27°C	97.98	72.01	25.31	94.92	70.54	27.03	91.69	68.98	29.03	88.25	67.33	31.29	79.54	61.66	33.82	74.01	58.66	37.19
		30°C	98.35	87.87	25.34	95.25	86.28	27.07	91.98	84.61	29.06	88.52	82.85	31.33	79.81	76.16	33.86	74.30	72.82	37.23
		33°C	98.93	98.93	25.37	96.10	96.10	27.13	93.30	93.30	29.17	90.50	90.50	31.50	82.30	82.30	34.11	77.51	77.51	37.59
	22°C	27°C	107.22	57.91	25.98	103.83	56.63	27.74	100.31	55.32	29.76	96.59	53.94	32.05	87.12	49.35	34.59	81.11	46.88	37.99
		30°C	107.37	71.59	25.99	103.99	70.17	27.75	100.49	68.69	29.78	96.78	67.10	32.06	87.30	61.51	34.61	81.33	58.60	38.01
		33°C	107.67	83.42	26.01	104.31	81.93	27.78	100.79	80.38	29.80	97.07	78.75	32.09	87.58	72.43	34.64	81.61	69.30	38.04
		36°C	107.98	94.99	26.04	104.62	93.48	27.80	101.05	91.90	29.83	97.36	90.28	32.12	87.93	83.16	34.68	82.32	79.26	38.12
9000	16°C	21°C	90.82	67.87	24.80	87.91	66.43	26.50	84.77	64.84	28.47	81.46	63.08	30.71	73.31	57.53	33.21	68.04	54.37	36.55
		24°C	91.29	80.91	24.84	88.38	79.27	26.54	85.28	77.52	28.51	81.96	75.66	30.75	73.76	69.29	33.26	68.44	65.88	36.60
		27°C	91.93	91.93	24.88	89.20	89.20	26.60	86.41	86.41	28.60	83.62	83.62	30.89	75.83	75.83	33.46	71.14	71.14	36.89
		30°C	96.69	96.69	25.22	94.20	94.20	26.98	91.53	91.53	29.02	88.68	88.68	31.34	80.52	80.52	33.93	75.66	75.66	37.38
	19°C	24°C	99.72	64.07	25.43	96.56	62.72	27.16	93.17	61.28	29.16	89.59	59.77	31.41	80.68	54.69	33.94	75.02	51.94	37.30
		27°C	100.09	75.00	25.46	96.93	73.49	27.19	93.57	71.89	29.19	90.01	70.21	31.45	81.08	64.34	33.98	75.40	61.26	37.34
		30°C	100.55	91.99	25.50	97.34	90.36	27.23	93.94	88.65	29.23	90.41	86.88	31.49	81.50	79.86	34.02	76.01	75.95	37.42
		33°C	102.12	102.12	25.60	99.51	99.51	27.39	96.76	96.76	29.46	93.83	93.83	31.80	85.29	85.29	34.41	80.27	80.27	37.89
	22°C	27°C	109.29	60.15	26.13	105.79	58.87	27.89	102.14	57.55	29.92	98.28	56.16	32.20	88.60	51.44	34.75	82.47	48.94	38.13
		30°C	109.55	74.70	26.15	106.06	73.21	27.92	102.42	71.66	29.94	98.58	70.04	32.23	88.89	64.24	34.78	82.79	61.23	38.17
		33°C	109.97	87.36	26.18	106.49	85.84	27.95	102.82	84.25	29.98	98.96	82.59	32.27	89.25	76.02	34.82	83.12	72.80	38.21
		36°C	110.35	99.88	26.22	106.85	98.34	27.99	103.25	96.58	30.02	99.67	94.54	32.33	90.35	87.39	34.93	84.95	83.33	38.43
9900	16°C	21°C	92.43	69.72	24.91	89.40	68.11	26.62	86.20	66.39	28.59	82.83	64.56	30.82	74.50	58.87	33.33	69.10	55.64	36.68
		24°C	93.03	83.09	24.96	90.00	81.42	26.66	86.80	79.65	28.63	83.39	77.78	30.88	74.98	71.26	33.38	69.58	67.83	36.72
		27°C	94.33	94.33	25.04	91.70	91.70	26.79	89.00	89.00	28.81	86.11	86.11	31.11	78.05	78.05	33.68	73.18	73.18	37.11
		30°C	99.80	99.80	25.44	97.16	97.16	27.21	94.37	94.37	29.26	91.39	91.39	31.58	82.94	82.94	34.17	77.89	77.89	37.63
	19°C	24°C	101.38	67.05	25.55	98.11	65.68	27.28	94.63	64.22	29.28	90.96	62.65	31.54	81.89	57.25	34.06	76.08	54.25	37.42
		27°C	101.90	78.49	25.59	98.63	76.93	27.32	95.14	75.28	29.32	91.48	73.55	31.58	82.36	67.44	34.11	76.54	64.26	37.48
		30°C	102.43	96.71	25.63	99.08	95.03	27.37	95.68	93.24	29.37	92.11	91.23	31.64	83.23	83.23	34.20	77.91	77.91	37.63
		33°C	105.43	105.43	25.85	102.70	102.70	27.65	99.83	99.83	29.72	96.77	96.77	32.06	87.91	87.91	34.68	82.70	82.70	38.17
	22°C	27°C	111.03	62.92	26.26	107.43	61.63	28.03	103.66	60.28	30.05	99.72	58.91	32.33	89.86	54.03	34.87	83.60	51.41	38.26
		30°C	111.39	78.25	26.29	107.82	76.71	28.06	104.08	75.11	30.08	100.14	73.43	32.37	90.26	67.38	34.92	84.02	64.28	38.31
		33°C	111.93	91.90	26.33	108.32	90.33	28.10	104.54	88.70	30.13	100.58	87.00	32.42	90.65	80.11	34.97	84.39	76.78	38.36
		36°C	112.49	105.24	26.37	109.11	103.30	28.16	105.68	101.02	30.23	102.26	98.39	32.58	92.96	90.47	35.21	87.58	85.91	38.73

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB350ER3 ~ M4MC100ER + M4MC125ER x 2

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
9450	16°C	21°C	88.92	63.55	27.47	86.10	62.15	29.36	83.11	60.67	31.55	79.89	59.09	34.04	71.89	53.94	36.84	66.78	51.03	40.56
		24°C	89.26	75.70	27.50	86.45	74.13	29.39	83.46	72.46	31.58	80.27	70.70	34.08	72.28	64.71	36.87	67.12	61.49	40.60
		27°C	89.59	87.14	27.53	86.86	85.51	29.43	83.94	83.75	31.62	80.96	80.96	34.15	73.29	73.29	36.99	68.78	68.78	40.80
		30°C	93.15	93.15	27.80	90.80	90.80	29.75	88.27	88.27	32.02	85.57	85.57	34.59	77.73	77.73	37.47	73.09	73.09	41.32
	19°C	24°C	97.69	60.04	28.16	94.66	58.74	30.08	91.40	57.35	32.30	87.95	55.89	34.82	79.23	51.09	37.63	73.67	48.48	41.38
		27°C	97.94	70.14	28.18	94.89	68.71	30.10	91.66	67.19	32.33	88.22	65.58	34.85	79.52	60.06	37.66	73.98	57.14	41.42
		30°C	98.32	85.59	28.21	95.22	84.04	30.14	91.95	82.41	32.36	88.49	80.70	34.89	79.79	74.19	37.70	74.28	70.93	41.46
		33°C	98.89	98.89	28.25	96.07	96.07	30.21	93.27	93.27	32.48	90.47	90.47	35.07	82.27	82.27	37.98	77.48	77.48	41.85
	22°C	27°C	107.19	56.41	28.93	103.80	55.16	30.89	100.27	53.88	33.14	96.56	52.54	35.68	87.09	48.07	38.52	81.08	45.66	42.30
		30°C	107.34	69.73	28.94	103.96	68.34	30.90	100.46	66.90	33.16	96.75	65.36	35.70	87.27	59.92	38.54	81.30	57.08	42.32
		33°C	107.64	81.25	28.97	104.27	79.80	30.93	100.75	78.29	33.19	97.04	76.71	35.74	87.55	70.55	38.58	81.58	67.50	42.36
		36°C	107.94	92.52	28.99	104.58	91.06	30.96	101.01	89.52	33.22	97.33	87.93	35.77	87.90	81.00	38.62	82.29	77.20	42.45
10500	16°C	21°C	90.79	66.11	27.62	87.88	64.70	29.51	84.75	63.16	31.70	81.44	61.44	34.20	73.29	56.03	36.98	68.02	52.96	40.70
		24°C	91.26	78.81	27.66	88.35	77.21	29.55	85.25	75.51	31.74	81.94	73.70	34.24	73.74	67.49	37.03	68.41	64.17	40.76
		27°C	91.89	91.36	27.70	89.17	89.17	29.62	86.38	86.38	31.85	83.59	83.59	34.40	75.81	75.81	37.26	71.12	71.12	41.08
		30°C	96.66	96.66	28.08	94.17	94.17	30.04	91.50	91.50	32.31	88.65	88.65	34.89	80.49	80.49	37.78	75.64	75.64	41.63
	19°C	24°C	99.68	62.41	28.32	96.53	61.09	30.24	93.14	59.69	32.46	89.56	58.22	34.98	80.65	53.27	37.79	74.99	50.59	41.54
		27°C	100.06	73.05	28.35	96.90	71.58	30.28	93.53	70.02	32.50	89.98	68.38	35.02	81.05	62.67	37.84	75.37	59.67	41.58
		30°C	100.52	89.60	28.39	97.31	88.02	30.32	93.91	86.35	32.55	90.38	84.63	35.07	81.47	77.78	37.89	75.98	73.98	41.67
		33°C	102.09	102.09	28.51	99.48	99.48	30.50	96.73	96.73	32.80	93.80	93.80	35.41	85.26	85.26	38.32	80.25	80.25	42.20
	22°C	27°C	109.25	58.59	29.10	105.75	57.34	31.06	102.10	56.05	33.31	98.24	54.70	35.86	88.57	50.10	38.69	82.44	47.67	42.46
		30°C	109.51	72.76	29.12	106.03	71.31	31.09	102.39	69.80	33.34	98.54	68.22	35.89	88.86	62.57	38.72	82.76	59.64	42.50
		33°C	109.94	85.09	29.16	106.45	83.61	31.13	102.78	82.06	33.38	98.93	80.45	35.93	89.22	74.04	38.77	83.09	70.91	42.55
		36°C	110.32	97.29	29.19	106.82	95.79	31.16	103.21	94.08	33.43	99.64	92.08	36.00	90.32	85.12	38.90	84.92	81.16	42.79
11550	16°C	21°C	92.40	67.91	27.74	89.37	66.34	29.64	86.17	64.66	31.83	82.80	62.89	34.32	74.47	57.34	37.11	69.08	54.20	40.84
		24°C	93.00	80.93	27.79	89.97	79.30	29.69	86.77	77.58	31.88	83.36	75.76	34.38	74.96	69.40	37.17	69.55	66.07	40.89
		27°C	94.29	94.29	27.89	91.67	91.67	29.83	88.97	88.97	32.08	86.08	86.08	34.64	78.03	78.03	37.50	73.16	73.16	41.32
		30°C	99.77	99.77	28.33	97.13	97.13	30.30	94.34	94.34	32.58	91.36	91.36	35.16	82.91	82.91	38.05	77.87	77.87	41.90
	19°C	24°C	101.35	65.31	28.46	98.08	63.97	30.38	94.60	62.55	32.60	90.92	61.02	35.12	81.86	55.76	37.92	76.06	52.84	41.67
		27°C	101.86	76.45	28.50	98.60	74.94	30.43	95.11	73.32	32.65	91.45	71.64	35.17	82.34	65.69	37.98	76.51	62.59	41.73
		30°C	102.39	94.20	28.54	99.05	92.56	30.47	95.65	90.82	32.70	92.08	88.87	35.23	83.20	81.25	38.08	77.89	76.72	41.90
		33°C	105.40	105.40	28.78	102.67	102.67	30.79	99.80	99.80	33.09	96.73	96.73	35.70	87.88	87.88	38.62	82.67	82.67	42.50
	22°C	27°C	110.99	61.28	29.24	107.40	60.03	31.21	103.62	58.72	33.46	99.68	57.38	36.00	89.83	52.62	38.83	83.58	50.07	42.60
		30°C	111.36	76.22	29.28	107.78	74.72	31.24	104.04	73.16	33.50	100.11	71.52	36.05	90.23	65.63	38.88	83.99	62.61	42.66
		33°C	111.89	89.51	29.32	108.28	87.98	31.29	104.51	86.40	33.55	100.55	84.74	36.10	90.62	78.03	38.94	84.36	74.79	42.71
		36°C	112.45	102.51	29.37	109.08	100.61	31.36	105.64	98.40	33.66	102.23	95.84	36.27	92.93	88.12	39.21	87.55	83.68	43.12

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R407C
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB400ER4 ~ M4MC100ER x 4

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
10800	16°C	21°C	105.42	76.34	32.50	102.08	74.66	34.74	98.53	72.88	37.33	94.72	70.98	40.28	85.24	64.80	43.58	79.18	61.30	47.99
		24°C	105.83	90.93	32.54	102.49	89.04	34.77	98.95	87.04	37.37	95.17	84.92	40.33	85.69	77.73	43.63	79.58	73.86	48.04
		27°C	106.22	104.67	32.57	102.98	102.72	34.82	99.52	99.52	37.42	95.99	95.99	40.40	86.89	86.89	43.76	81.54	81.54	48.27
		30°C	110.43	110.43	32.89	107.65	107.65	35.20	104.65	104.65	37.88	101.45	101.45	40.93	92.16	92.16	44.34	86.65	86.65	48.88
	19°C	24°C	115.83	72.12	33.32	112.23	70.55	35.59	108.37	68.89	38.22	104.28	67.13	41.20	93.94	61.37	44.52	87.34	58.23	48.96
		27°C	116.12	84.25	33.34	112.50	82.53	35.62	108.67	80.70	38.25	104.60	78.78	41.23	94.27	72.15	44.56	87.71	68.63	49.00
		30°C	116.57	102.81	33.38	112.89	100.95	35.66	109.02	98.99	38.29	104.91	96.93	41.28	94.60	89.11	44.61	88.06	85.20	49.05
		33°C	117.25	117.25	33.43	113.90	113.90	35.74	110.58	110.58	38.43	107.26	107.26	41.50	97.54	97.54	44.94	91.86	91.86	49.52
	22°C	27°C	127.08	67.76	34.23	123.06	66.26	36.55	118.88	64.72	39.21	114.48	63.11	42.22	103.25	57.74	45.58	96.13	54.84	50.05
		30°C	127.26	83.76	34.24	123.25	82.10	36.56	119.10	80.36	39.23	114.70	78.51	42.24	103.47	71.97	45.60	96.39	68.56	50.07
		33°C	127.61	97.60	34.27	123.63	95.85	36.60	119.45	94.04	39.27	115.05	92.14	42.28	103.80	84.75	45.64	96.72	81.08	50.12
		36°C	127.98	111.13	34.30	123.99	109.38	36.63	119.76	107.53	39.30	115.39	105.62	42.32	104.21	97.30	45.69	97.57	92.73	50.23
12000	16°C	21°C	107.64	79.41	32.68	104.19	77.72	34.91	100.47	75.86	37.51	96.55	73.80	40.46	86.89	67.31	43.76	80.64	63.62	48.16
		24°C	108.20	94.67	32.72	104.75	92.74	34.96	101.07	90.70	37.56	97.14	88.52	40.51	87.42	81.07	43.82	81.11	77.09	48.22
		27°C	108.95	108.95	32.78	105.72	105.72	35.04	102.41	102.41	37.68	99.11	99.11	40.70	89.88	89.88	44.09	84.31	84.31	48.60
		30°C	114.60	114.60	33.22	111.65	111.65	35.54	108.48	108.48	38.23	105.11	105.11	41.29	95.43	95.43	44.70	89.67	89.67	49.25
	19°C	24°C	118.19	74.96	33.51	114.45	73.38	35.78	110.43	71.70	38.41	106.18	69.93	41.39	95.62	63.98	44.72	88.91	60.77	49.15
		27°C	118.63	87.75	33.54	114.89	85.98	35.82	110.89	84.11	38.45	106.68	82.14	41.44	96.09	75.27	44.77	89.36	71.68	49.20
		30°C	119.17	107.62	33.59	115.36	105.73	35.87	111.34	103.72	38.51	107.15	101.65	41.49	96.59	93.43	44.83	90.08	88.87	49.30
		33°C	121.04	121.04	33.73	117.94	117.94	36.09	114.68	114.68	38.81	111.21	111.21	41.89	101.08	101.08	45.34	95.14	95.14	49.93
	22°C	27°C	129.53	70.37	34.43	125.38	68.88	36.75	121.06	67.33	39.42	116.48	65.71	42.43	105.01	60.18	45.78	97.74	57.27	50.24
		30°C	129.84	87.40	34.46	125.70	85.66	36.78	121.39	83.85	39.45	116.83	81.95	42.46	105.36	75.16	45.82	98.12	71.64	50.29
		33°C	130.34	102.21	34.50	126.21	100.44	36.83	121.86	98.57	39.50	117.29	96.63	42.51	105.78	88.94	45.87	98.52	85.18	50.35
		36°C	130.79	116.86	34.54	126.64	115.06	36.87	122.37	113.00	39.55	118.13	110.61	42.60	107.08	102.25	46.02	100.68	97.49	50.62
13200	16°C	21°C	109.55	81.58	32.82	105.96	79.69	35.07	102.17	77.67	37.66	98.17	75.54	40.61	88.29	68.87	43.91	81.90	65.10	48.32
		24°C	110.25	97.21	32.88	106.67	95.26	35.12	102.87	93.19	37.72	98.83	91.00	40.68	88.87	83.37	43.98	82.46	79.36	48.38
		27°C	111.79	111.79	33.00	108.68	108.68	35.29	105.49	105.49	37.96	102.06	102.06	40.99	92.51	92.51	44.37	86.73	86.73	48.89
		30°C	118.28	118.28	33.52	115.16	115.16	35.85	111.85	111.85	38.55	108.31	108.31	41.60	98.30	98.30	45.02	92.32	92.32	49.57
	19°C	24°C	120.16	78.45	33.67	116.28	76.84	35.94	112.16	75.14	38.57	107.80	73.30	41.55	97.06	66.98	44.87	90.18	63.47	49.30
		27°C	120.77	91.83	33.72	116.90	90.01	36.00	112.76	88.08	38.63	108.42	86.06	41.61	97.62	78.91	44.94	90.71	75.18	49.38
		30°C	121.40	113.16	33.77	117.44	111.18	36.06	113.40	109.10	38.69	109.16	106.75	41.69	98.64	97.60	45.06	92.34	92.16	49.58
		33°C	124.96	124.96	34.06	121.72	121.72	36.43	118.32	118.32	39.16	114.69	114.69	42.24	104.19	104.19	45.69	98.02	98.02	50.28
	22°C	27°C	131.59	73.61	34.60	127.33	72.11	36.92	122.85	70.53	39.59	118.18	68.93	42.60	106.51	63.21	45.95	99.09	60.15	50.41
		30°C	132.03	91.55	34.64	127.78	89.75	36.97	123.35	87.88	39.64	118.69	85.91	42.65	106.98	78.84	46.00	99.58	75.21	50.47
		33°C	132.66	107.52	34.69	128.38	105.69	37.02	123.90	103.78	39.70	119.21	101.79	42.71	107.44	93.73	46.07	100.02	89.83	50.54
		36°C	133.32	123.14	34.75	129.32	120.86	37.10	125.25	118.20	39.83	121.20	115.12	42.92	110.18	105.85	46.39	103.80	100.51	51.02

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB450ER4 ~ M4MC150ER x 3

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
12150	16°C	21°C	125.11	89.43	39.86	121.15	87.45	42.60	116.94	85.37	45.78	112.42	83.14	49.40	101.16	75.91	53.45	93.97	71.80	58.85
		24°C	125.60	106.52	39.90	121.64	104.30	42.65	117.43	101.96	45.83	112.95	99.48	49.46	101.70	91.05	53.51	94.45	86.52	58.92
		27°C	126.06	122.61	39.95	122.22	120.32	42.70	118.11	117.84	45.89	113.92	113.92	49.55	103.12	103.12	53.67	96.78	96.78	59.20
		30°C	131.07	131.07	40.34	127.76	127.76	43.18	124.21	124.21	46.46	120.40	120.40	50.20	109.37	109.37	54.38	102.84	102.84	59.95
	19°C	24°C	137.46	84.48	40.87	133.19	82.65	43.65	128.61	80.69	46.87	123.76	78.64	50.52	111.49	71.88	54.61	103.65	68.21	60.05
		27°C	137.82	98.69	40.89	133.52	96.67	43.68	128.97	94.54	46.91	124.14	92.28	50.56	111.89	84.51	54.65	104.10	80.40	60.10
		30°C	138.35	120.44	40.94	133.99	118.25	43.73	129.38	115.96	46.96	124.51	113.55	50.62	112.27	104.39	54.71	104.51	99.80	60.16
		33°C	139.15	139.15	41.00	135.18	135.18	43.83	131.24	131.24	47.13	127.30	127.30	50.89	115.76	115.76	55.11	109.02	109.02	60.73
	22°C	27°C	150.82	79.37	41.98	146.05	77.62	44.82	141.09	75.81	48.09	135.87	73.92	51.78	122.54	67.63	55.90	114.09	64.24	61.38
		30°C	151.03	98.11	42.00	146.28	96.17	44.84	141.35	94.14	48.11	136.13	91.96	51.80	122.80	84.31	55.92	114.40	80.32	61.41
		33°C	151.45	114.33	42.03	146.72	112.29	44.88	141.77	110.16	48.16	136.55	107.93	51.86	123.19	99.27	55.98	114.79	94.98	61.47
		36°C	151.89	130.18	42.07	147.15	128.13	44.92	142.14	125.96	48.20	136.95	123.73	51.90	123.68	113.98	56.03	115.80	108.63	61.60
13500	16°C	21°C	127.75	93.02	40.08	123.66	91.04	42.82	119.25	88.87	46.00	114.59	86.45	49.62	103.12	78.84	53.67	95.71	74.52	59.06
		24°C	128.41	110.89	40.13	124.32	108.64	42.88	119.95	106.24	46.06	115.29	103.70	49.69	103.76	94.97	53.74	96.26	90.30	59.14
		27°C	129.30	128.56	40.20	125.47	125.47	42.98	121.55	121.55	46.21	117.62	117.62	49.92	106.67	106.67	54.07	100.07	100.07	59.61
		30°C	136.01	136.01	40.75	132.51	132.51	43.59	128.75	128.75	46.89	124.74	124.74	50.63	113.26	113.26	54.82	106.43	106.43	60.40
	19°C	24°C	140.26	87.81	41.10	135.83	85.96	43.88	131.06	83.99	47.11	126.02	81.92	50.76	113.48	74.95	54.84	105.52	71.19	60.27
		27°C	140.80	102.79	41.14	136.35	100.72	43.93	131.61	98.53	47.16	126.61	96.22	50.82	114.05	88.18	54.90	106.06	83.96	60.34
		30°C	141.44	126.07	41.20	136.92	123.85	43.99	132.14	121.50	47.23	127.17	119.08	50.88	114.64	109.45	54.98	106.91	104.10	60.47
		33°C	143.65	143.65	41.37	139.98	139.98	44.26	136.10	136.10	47.60	131.99	131.99	51.38	119.97	119.97	55.60	112.91	112.91	61.23
	22°C	27°C	153.73	82.44	42.22	148.80	80.69	45.07	143.67	78.87	48.34	138.24	76.97	52.03	124.63	70.50	56.14	116.00	67.08	61.62
		30°C	154.10	102.38	42.26	149.19	100.34	45.11	144.07	98.22	48.38	138.66	95.99	52.07	125.04	88.04	56.19	116.45	83.92	61.67
		33°C	154.69	119.73	42.31	149.79	117.65	45.17	144.63	115.47	48.44	139.20	113.19	52.14	125.54	104.18	56.26	116.92	99.78	61.75
		36°C	155.23	136.89	42.36	150.30	134.78	45.22	145.23	132.37	48.50	140.20	129.57	52.24	127.09	119.78	56.44	119.49	114.20	62.09
14850	16°C	21°C	130.01	95.56	40.26	125.76	93.34	43.00	121.25	90.99	46.19	116.51	88.49	49.81	104.79	80.68	53.85	97.20	76.26	59.26
		24°C	130.85	113.88	40.33	126.59	111.58	43.08	122.09	109.17	46.26	117.29	106.60	49.89	105.47	97.66	53.94	97.87	92.96	59.34
		27°C	132.68	132.68	40.47	128.99	128.99	43.29	125.19	125.19	46.55	121.12	121.12	50.27	109.79	109.79	54.42	102.94	102.94	59.96
		30°C	140.38	140.38	41.10	136.67	136.67	43.97	132.74	132.74	47.27	128.55	128.55	51.02	116.66	116.66	55.21	109.57	109.57	60.80
	19°C	24°C	142.61	91.90	41.29	138.01	90.01	44.08	133.11	88.01	47.31	127.94	85.87	50.96	115.19	78.46	55.03	107.02	74.35	60.47
		27°C	143.33	107.57	41.35	138.74	105.44	44.15	133.82	103.17	47.38	128.68	100.81	51.03	115.85	92.43	55.12	107.66	88.07	60.56
		30°C	144.08	132.55	41.42	139.37	130.24	44.22	134.58	127.80	47.46	129.56	125.04	51.12	117.07	114.33	55.26	109.59	107.95	60.81
		33°C	148.31	148.31	41.77	144.46	144.46	44.67	140.42	140.42	48.02	136.11	136.11	51.81	123.66	123.66	56.04	116.33	116.33	61.67
	22°C	27°C	156.17	86.23	42.43	151.12	84.47	45.29	145.81	82.62	48.55	140.26	80.75	52.24	126.40	74.05	56.35	117.60	70.46	61.82
		30°C	156.69	107.25	42.48	151.66	105.14	45.34	146.40	102.94	48.61	140.86	100.64	52.31	126.97	92.35	56.42	118.18	88.10	61.90
		33°C	157.44	125.95	42.55	152.36	123.80	45.41	147.05	121.57	48.68	141.48	119.23	52.38	127.51	109.79	56.50	118.70	105.23	61.98
		36°C	158.23	144.24	42.61	153.48	141.57	45.50	148.65	138.46	48.84	143.84	134.85	52.64	130.76	123.99	56.89	123.20	117.74	62.57

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R407C
MDB ~ ER SERIES (COOLING MODE)
MODEL : MDB500ER4 ~ M4MC125ER x 4

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
13500	16°C	21°C	125.98	94.79	39.81	122.00	92.70	42.55	117.75	90.49	45.72	113.20	88.13	49.34	101.86	80.46	53.39	94.62	76.11	58.78
		24°C	126.47	112.90	39.85	122.48	110.55	42.60	118.25	108.07	45.77	113.73	105.44	49.40	102.41	96.51	53.44	95.11	91.70	58.84
		27°C	126.94	126.94	39.90	123.07	123.07	42.65	118.94	118.94	45.83	114.71	114.71	49.49	103.84	103.84	53.61	97.45	97.45	59.13
		30°C	131.98	131.98	40.29	128.65	128.65	43.12	125.07	125.07	46.40	121.24	121.24	50.14	110.13	110.13	54.31	103.56	103.56	59.88
	19°C	24°C	138.42	89.55	40.82	134.12	87.60	43.60	129.51	85.53	46.81	124.62	83.35	50.46	112.26	76.19	54.54	104.37	72.30	59.98
		27°C	138.77	104.61	40.84	134.45	102.47	43.63	129.87	100.20	46.85	125.00	97.81	50.50	112.66	89.58	54.59	104.82	85.22	60.03
		30°C	139.31	127.66	40.89	134.92	125.34	43.68	130.28	122.91	46.90	125.37	120.35	50.56	113.05	110.64	54.64	105.24	105.24	60.09
		33°C	140.12	140.12	40.95	136.12	136.12	43.78	132.15	132.15	47.07	128.18	128.18	50.83	116.57	116.57	55.04	109.78	109.78	60.66
	22°C	27°C	151.87	84.13	41.93	147.07	82.27	44.77	142.07	80.36	48.03	136.81	78.36	51.72	123.40	71.69	55.83	114.88	68.10	61.31
		30°C	152.08	103.99	41.94	147.30	101.93	44.79	142.33	99.78	48.05	137.08	97.48	51.74	123.65	89.36	55.86	115.19	85.13	61.33
		33°C	152.51	121.18	41.98	147.74	119.02	44.83	142.76	116.76	48.10	137.49	114.40	51.79	124.05	105.22	55.91	115.59	100.67	61.39
		36°C	152.94	137.99	42.02	148.18	135.81	44.87	143.13	133.51	48.14	137.90	131.15	51.84	124.54	120.81	55.97	116.60	115.14	61.53
15000	16°C	21°C	128.64	98.60	40.03	124.52	96.50	42.77	120.07	94.19	45.94	115.38	91.63	49.56	103.84	83.57	53.60	96.37	78.99	58.99
		24°C	129.31	117.54	40.09	125.18	115.15	42.83	120.79	112.61	46.01	116.09	109.91	49.63	104.48	100.66	53.67	96.93	95.71	59.07
		27°C	130.20	130.20	40.15	126.34	126.34	42.92	122.39	122.39	46.16	118.44	118.44	49.86	107.41	107.41	54.00	100.76	100.76	59.53
		30°C	136.95	136.95	40.70	133.43	133.43	43.54	129.64	129.64	46.83	125.61	125.61	50.57	114.04	114.04	54.75	107.17	107.17	60.33
	19°C	24°C	141.24	93.07	41.04	136.77	91.12	43.83	131.97	89.02	47.05	126.90	86.83	50.70	114.27	79.44	54.78	106.25	75.45	60.20
		27°C	141.77	108.95	41.09	137.30	106.76	43.88	132.53	104.43	47.10	127.49	101.99	50.76	114.84	93.46	54.84	106.80	89.00	60.27
		30°C	142.42	133.63	41.15	137.87	131.27	43.94	133.06	128.79	47.17	128.05	126.22	50.82	115.44	115.44	54.91	107.66	107.66	60.39
		33°C	144.65	144.65	41.32	140.95	140.95	44.21	137.05	137.05	47.54	132.90	132.90	51.31	120.80	120.80	55.53	113.70	113.70	61.16
	22°C	27°C	154.80	87.38	42.17	149.84	85.52	45.02	144.67	83.60	48.28	139.20	81.58	51.97	125.49	74.72	56.07	116.81	71.10	61.54
		30°C	155.17	108.52	42.21	150.22	106.35	45.05	145.07	104.11	48.32	139.62	101.75	52.01	125.91	93.32	56.12	117.26	88.96	61.60
		33°C	155.76	126.91	42.26	150.83	124.70	45.11	145.63	122.39	48.38	140.17	119.98	52.08	126.41	110.43	56.19	117.73	105.76	61.67
		36°C	156.31	145.10	42.31	151.35	142.86	45.16	146.24	140.31	48.45	141.18	137.34	52.18	127.97	126.96	56.37	120.32	120.32	62.01
16500	16°C	21°C	130.92	101.29	40.21	126.63	98.94	42.95	122.10	96.44	46.13	117.32	93.79	49.75	105.52	85.52	53.78	97.87	80.83	59.19
		24°C	131.76	120.70	40.28	127.47	118.27	43.03	122.94	115.71	46.21	118.11	112.99	49.83	106.20	103.51	53.87	98.55	98.53	59.27
		27°C	133.60	133.60	40.42	129.89	129.89	43.23	126.06	126.06	46.49	121.96	121.96	50.21	110.55	110.55	54.35	103.65	103.65	59.89
		30°C	141.36	141.36	41.05	137.62	137.62	43.91	133.66	133.66	47.22	129.44	129.44	50.96	117.47	117.47	55.15	110.33	110.33	60.72
	19°C	24°C	143.60	97.40	41.24	138.97	95.41	44.03	134.04	93.29	47.25	128.83	91.01	50.90	115.99	83.17	54.96	107.77	78.80	60.39
		27°C	144.32	114.02	41.30	139.70	111.76	44.10	134.75	109.36	47.32	129.57	106.85	50.97	116.66	97.97	55.05	108.41	93.35	60.48
		30°C	145.08	140.50	41.37	140.34	138.05	44.17	135.52	135.46	47.40	130.46	130.46	51.06	117.88	117.88	55.19	110.36	110.36	60.73
		33°C	149.34	149.34	41.72	145.47	145.47	44.62	141.40	141.40	47.96	137.06	137.06	51.75	124.52	124.52	55.97	117.14	117.14	61.60
	22°C	27°C	157.26	91.40	42.38	152.17	89.53	45.23	146.82	87.58	48.49	141.24	85.59	52.18	127.28	78.49	56.28	118.42	74.68	61.75
		30°C	157.78	113.67	42.43	152.71	111.44	45.28	147.42	109.11	48.55	141.84	106.67	52.24	127.85	97.89	56.35	119.01	93.38	61.82
		33°C	158.53	133.50	42.49	153.42	131.22	45.35	148.07	128.85	48.63	142.46	126.38	52.32	128.39	116.38	56.43	119.53	111.54	61.91
		36°C	159.32	152.89	42.56	154.55	150.06	45.45	149.68	146.76	48.78	144.84	142.93	52.57	131.67	131.43	56.82	124.05	124.05	62.50

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

MODEL : MDB600ER4 ~ M4MC150ER x 4

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
16200	16°C	21°C	167.98	120.07	55.61	162.66	117.42	59.44	157.00	114.62	63.87	150.93	111.63	68.92	135.82	101.91	74.57	126.17	96.41	82.11
		24°C	168.64	143.02	55.67	163.32	140.04	59.50	157.67	136.90	63.94	151.64	133.56	69.00	136.54	122.24	74.65	126.81	116.16	82.20
		27°C	169.26	164.62	55.73	164.09	161.55	59.57	158.58	158.22	64.02	152.96	152.96	69.13	138.46	138.46	74.88	129.94	129.94	82.60
		30°C	175.97	175.97	56.28	171.54	171.54	60.23	166.76	166.76	64.82	161.66	161.66	70.03	146.85	146.85	75.86	138.08	138.08	83.64
	19°C	24°C	184.56	113.43	57.01	178.83	110.96	60.90	172.68	108.34	65.39	166.16	105.58	70.49	149.69	96.51	76.18	139.17	91.59	83.78
		27°C	185.04	132.50	57.05	179.27	129.80	60.94	173.16	126.93	65.44	166.67	123.90	70.54	150.22	113.47	76.25	139.77	107.95	83.85
		30°C	185.75	161.70	57.11	179.89	158.77	61.01	173.71	155.69	65.52	167.17	152.45	70.62	150.74	140.15	76.33	140.32	134.00	83.93
		33°C	186.83	186.83	57.20	181.50	181.50	61.15	176.20	176.20	65.75	170.91	170.91	71.00	155.42	155.42	76.89	146.37	146.37	84.73
	22°C	27°C	202.50	106.57	58.56	196.09	104.21	62.53	189.44	101.79	67.09	182.42	99.25	72.24	164.53	90.81	77.98	153.18	86.26	85.63
		30°C	202.78	131.73	58.59	196.40	129.12	62.56	189.78	126.39	67.12	182.77	123.47	72.27	164.87	113.19	78.02	153.59	107.83	85.67
		33°C	203.35	153.50	58.64	196.99	150.76	62.62	190.34	147.90	67.19	183.33	144.91	72.35	165.40	133.29	78.10	154.12	127.52	85.76
		36°C	203.93	174.79	58.70	197.57	172.03	62.68	190.84	169.11	67.25	183.87	166.12	72.41	166.05	153.03	78.17	155.47	145.84	85.94
18000	16°C	21°C	171.52	124.90	55.91	166.02	122.24	59.74	160.10	119.32	64.17	153.85	116.07	69.23	138.46	105.86	74.87	128.50	100.05	82.40
		24°C	172.41	148.89	55.99	166.92	145.86	59.82	161.05	142.64	64.26	154.79	139.23	69.32	139.31	127.51	74.97	129.25	121.24	82.51
		27°C	173.61	172.61	56.08	168.46	168.46	59.96	163.19	163.19	64.47	157.92	157.92	69.64	143.22	143.22	75.43	134.35	134.35	83.16
		30°C	182.61	182.61	56.85	177.91	177.91	60.82	172.86	172.86	65.42	167.48	167.48	70.64	152.06	152.06	76.48	142.89	142.89	84.27
	19°C	24°C	188.32	117.90	57.33	182.37	115.42	61.22	175.96	112.77	65.72	169.20	109.99	70.81	152.36	100.63	76.51	141.67	95.58	84.09
		27°C	189.04	138.00	57.39	183.07	135.23	61.29	176.71	132.28	65.80	169.99	129.19	70.90	153.12	118.39	76.60	142.40	112.73	84.18
		30°C	189.89	169.27	57.47	183.83	166.28	61.38	177.41	163.13	65.89	170.74	159.88	70.99	153.92	146.95	76.70	143.54	139.76	84.36
		33°C	192.87	192.87	57.72	187.94	187.94	61.75	182.74	182.74	66.41	177.21	177.21	71.68	161.07	161.07	77.57	151.60	151.60	85.42
	22°C	27°C	206.40	110.68	58.91	199.79	108.33	62.88	192.90	105.90	67.44	185.60	103.34	72.59	167.33	94.65	78.33	155.75	90.07	85.96
		30°C	206.89	137.46	58.95	200.30	134.72	62.93	193.43	131.87	67.50	186.17	128.88	72.65	167.88	118.21	78.39	156.35	112.68	86.04
		33°C	207.69	160.76	59.03	201.11	157.96	63.01	194.18	155.03	67.58	186.89	151.98	72.74	168.55	139.88	78.49	156.98	133.96	86.14
		36°C	208.41	183.79	59.10	201.80	180.96	63.09	194.99	177.73	67.67	188.24	173.96	72.89	170.63	160.82	78.74	160.44	153.33	86.62
19800	16°C	21°C	174.56	128.30	56.16	168.84	125.33	60.00	162.80	122.16	64.44	156.43	118.81	69.49	140.69	108.32	75.13	130.50	102.39	82.68
		24°C	175.69	152.90	56.26	169.97	149.82	60.10	163.92	146.57	64.54	157.48	143.13	69.60	141.61	131.12	75.25	131.40	124.81	82.78
		27°C	178.14	178.14	56.46	173.18	173.18	60.39	168.09	168.09	64.94	162.62	162.62	70.13	147.41	147.41	75.92	138.21	138.21	83.65
		30°C	188.48	188.48	57.34	183.50	183.50	61.34	178.22	178.22	65.95	172.59	172.59	71.18	156.63	156.63	77.03	147.11	147.11	84.82
	19°C	24°C	191.47	123.38	57.61	185.29	120.85	61.50	178.72	118.17	66.00	171.78	115.29	71.09	154.66	105.35	76.77	143.69	99.82	84.36
		27°C	192.44	144.42	57.69	186.28	141.57	61.59	179.68	138.52	66.10	172.77	135.35	71.20	155.55	124.10	76.90	144.55	118.25	84.48
		30°C	193.44	177.97	57.78	187.13	174.87	61.69	180.70	171.58	66.21	173.95	167.88	71.32	157.18	153.50	77.09	147.14	144.94	84.83
		33°C	199.12	199.12	58.27	193.96	193.96	62.33	188.53	188.53	67.00	182.75	182.75	72.28	166.03	166.03	78.18	156.18	156.18	86.04
	22°C	27°C	209.68	115.78	59.20	202.90	113.41	63.18	195.76	110.93	67.74	188.32	108.41	72.88	169.71	99.42	78.62	157.89	94.60	86.25
		30°C	210.38	143.99	59.27	203.62	141.16	63.25	196.56	138.21	67.82	189.13	135.12	72.97	170.47	123.99	78.71	158.68	118.29	86.35
		33°C	211.38	169.10	59.36	204.56	166.22	63.35	197.44	163.22	67.92	189.95	160.08	73.08	171.20	147.41	78.83	159.37	141.28	86.47
		36°C	212.44	193.66	59.45	206.07	190.08	63.48	199.58	185.90	68.14	193.13	181.05	73.43	175.57	166.48	79.37	165.41	158.08	87.30

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
PI: Power Input

Notes:
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.

R407C
MDB ~ ER SERIES (HEATING MODE)
MODEL : MDB075ER ~ M4MC075ER

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	9.998	9.998	12.546	12.546	13.396	13.396	22.741	22.741	27.838	27.838	30.386	30.386	32.935	32.935
17	9.739	9.739	12.289	12.289	13.140	13.140	22.697	22.697	27.078	27.078	29.538	29.538	31.998	31.998
19	9.480	9.480	12.033	12.033	12.883	12.883	22.653	22.653	26.319	26.319	28.690	28.690	31.061	31.061
21	9.221	9.221	11.776	11.776	12.627	12.627	22.609	22.609	25.560	25.560	27.842	27.842	30.125	30.125
23	9.210	9.210	11.581	11.581	12.371	12.371	21.461	21.461	24.801	24.801	26.994	26.994	29.188	29.188
25	9.200	9.200	11.386	11.386	12.114	12.114	20.313	20.313	24.042	24.042	26.146	26.146	28.251	28.251
27	9.189	9.189	11.191	11.191	11.858	11.858	19.165	19.165	23.282	23.282	25.298	25.298	27.314	27.314

MODEL : MDB100ER ~ M4MC100ER

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	14.663	14.663	18.446	18.446	19.707	19.707	33.576	33.576	41.142	41.142	44.924	44.924	48.707	48.707
17	14.272	14.272	18.064	18.064	19.329	19.329	32.526	32.526	40.019	40.019	43.671	43.671	47.322	47.322
19	13.881	13.881	17.683	17.683	18.950	18.950	31.475	31.475	38.897	38.897	42.417	42.417	45.937	45.937
21	13.490	13.490	17.302	17.302	18.572	18.572	30.425	30.425	37.774	37.774	41.163	41.163	44.551	44.551
23	13.485	13.485	17.017	17.017	18.194	18.194	29.766	29.766	36.652	36.652	39.909	39.909	43.166	43.166
25	13.480	13.480	16.732	16.732	17.816	17.816	29.107	29.107	35.529	35.529	38.655	38.655	41.781	41.781
27	13.475	13.475	16.448	16.448	17.438	17.438	28.448	28.448	34.407	34.407	37.401	37.401	40.395	40.395

MODEL : MDB125ER ~ M4MC125ER

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	16.186	16.186	20.338	20.338	21.721	21.721	36.943	36.943	45.245	45.245	49.397	49.397	53.548	53.548
17	15.761	15.761	19.919	19.919	21.305	21.305	36.166	36.166	44.011	44.011	48.018	48.018	52.025	52.025
19	15.335	15.335	19.501	19.501	20.889	20.889	35.389	35.389	42.777	42.777	46.639	46.639	50.502	50.502
21	14.910	14.910	19.082	19.082	20.473	20.473	34.612	34.612	41.543	41.543	45.261	45.261	48.979	48.979
23	14.898	14.898	18.767	18.767	20.057	20.057	33.489	33.489	40.308	40.308	43.882	43.882	47.456	47.456
25	14.887	14.887	18.452	18.452	19.640	19.640	32.366	32.366	39.074	39.074	42.504	42.504	45.933	45.933
27	14.876	14.876	18.137	18.137	19.224	19.224	31.243	31.243	37.840	37.840	41.125	41.125	44.410	44.410

R407C
MDB ~ ER SERIES (HEATING MODE)
MODEL : MDB150ER ~ M4MC150ER

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	19.931	19.931	25.099	25.099	26.822	26.822	45.772	45.772	56.108	56.108	61.276	61.276	66.444	66.444
17	19.393	19.393	24.579	24.579	26.307	26.307	44.471	44.471	54.577	54.577	59.565	59.565	64.554	64.554
19	18.856	18.856	24.058	24.058	25.792	25.792	43.170	43.170	53.046	53.046	57.855	57.855	62.664	62.664
21	18.318	18.318	23.537	23.537	25.277	25.277	41.869	41.869	51.514	51.514	56.144	56.144	60.775	60.775
23	18.317	18.317	23.150	23.150	24.761	24.761	40.832	40.832	49.983	49.983	54.434	54.434	58.885	58.885
25	18.317	18.317	22.764	22.764	24.246	24.246	39.794	39.794	48.452	48.452	52.724	52.724	56.995	56.995
27	18.316	18.316	22.377	22.377	23.731	23.731	38.756	38.756	46.921	46.921	51.013	51.013	55.105	55.105

MODEL : MDB150ER2 ~ M4MC075ER x 2

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	19.996	19.996	25.093	25.093	26.792	26.792	45.481	45.481	55.675	55.675	60.772	60.772	65.869	65.869
17	19.478	19.478	24.579	24.579	26.279	26.279	45.394	45.394	54.157	54.157	59.076	59.076	63.996	63.996
19	18.960	18.960	24.065	24.065	25.767	25.767	45.306	45.306	52.638	52.638	57.380	57.380	62.123	62.123
21	18.442	18.442	23.551	23.551	25.254	25.254	45.219	45.219	51.120	51.120	55.685	55.685	60.249	60.249
23	18.421	18.421	23.161	23.161	24.742	24.742	42.923	42.923	49.602	49.602	53.989	53.989	58.376	58.376
25	18.400	18.400	22.772	22.772	24.229	24.229	40.627	40.627	48.083	48.083	52.293	52.293	56.502	56.502
27	18.378	18.378	22.382	22.382	23.716	23.716	38.331	38.331	46.565	46.565	50.597	50.597	54.629	54.629

MODEL : MDB200ER2 ~ M4MC100ER x 2

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	29.351	29.351	36.953	36.953	39.488	39.488	67.364	67.364	82.569	82.569	90.172	90.172	97.774	97.774
17	28.561	28.561	36.187	36.187	38.729	38.729	65.192	65.192	80.316	80.316	87.655	87.655	94.993	94.993
19	27.771	27.771	35.421	35.421	37.971	37.971	63.021	63.021	78.063	78.063	85.138	85.138	92.212	92.212
21	26.981	26.981	34.655	34.655	37.213	37.213	60.850	60.850	75.809	75.809	82.620	82.620	89.432	89.432
23	26.978	26.978	34.085	34.085	36.455	36.455	59.593	59.593	73.556	73.556	80.103	80.103	86.651	86.651
25	26.975	26.975	33.516	33.516	35.696	35.696	58.337	58.337	71.303	71.303	77.586	77.586	83.870	83.870
27	26.973	26.973	32.947	32.947	34.938	34.938	57.081	57.081	69.050	69.050	75.069	75.069	81.089	81.089

MODEL : MDB250ER2 ~ M4MC125ER x 2

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	31.834	31.834	40.047	40.047	42.785	42.785	72.902	72.902	89.329	89.329	97.542	97.542	105.756	105.756
17	30.985	30.985	39.220	39.220	41.964	41.964	71.676	71.676	86.891	86.891	94.820	94.820	102.748	102.748
19	30.136	30.136	38.392	38.392	41.144	41.144	70.449	70.449	84.454	84.454	92.097	92.097	99.740	99.740
21	29.287	29.287	37.564	37.564	40.323	40.323	69.223	69.223	82.017	82.017	89.374	89.374	96.732	96.732
23	29.276	29.276	36.946	36.946	39.502	39.502	66.682	66.682	79.579	79.579	86.652	86.652	93.724	93.724
25	29.266	29.266	36.327	36.327	38.681	38.681	64.141	64.141	77.142	77.142	83.929	83.929	90.716	90.716
27	29.255	29.255	35.709	35.709	37.860	37.860	61.600	61.600	74.705	74.705	81.207	81.207	87.709	87.709

R407C
MDB ~ ER SERIES (HEATING MODE)
MODEL : MDB300ER2 ~ M4MC150ER x 2

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	41.688	41.688	52.406	52.406	55.979	55.979	95.280	95.280	116.717	116.717	127.435	127.435	138.154	138.154
17	40.585	40.585	51.326	51.326	54.906	54.906	91.433	91.433	113.533	113.533	123.878	123.878	134.224	134.224
19	39.482	39.482	50.245	50.245	53.833	53.833	87.585	87.585	110.348	110.348	120.322	120.322	130.295	130.295
21	38.380	38.380	49.165	49.165	52.760	52.760	83.738	83.738	107.164	107.164	116.765	116.765	126.366	126.366
23	38.357	38.357	48.354	48.354	51.686	51.686	82.781	82.781	103.980	103.980	113.208	113.208	122.437	122.437
25	38.335	38.335	47.544	47.544	50.613	50.613	81.824	81.824	100.796	100.796	109.652	109.652	118.507	118.507
27	38.312	38.312	46.733	46.733	49.540	49.540	80.868	80.868	97.612	97.612	106.095	106.095	114.578	114.578

MODEL : MDB300ER3 ~ M4MC100ER x 3

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	46.681	46.681	58.789	58.789	62.825	62.825	107.220	107.220	131.436	131.436	143.544	143.544	155.652	155.652
17	45.420	45.420	57.569	57.569	61.618	61.618	101.905	101.905	127.849	127.849	139.537	139.537	151.225	151.225
19	44.160	44.160	56.348	56.348	60.411	60.411	96.590	96.590	124.262	124.262	135.530	135.530	146.798	146.798
21	42.899	42.899	55.128	55.128	59.205	59.205	91.274	91.274	120.675	120.675	131.523	131.523	142.371	142.371
23	42.899	42.899	54.223	54.223	57.998	57.998	91.231	91.231	117.088	117.088	127.516	127.516	137.944	137.944
25	42.898	42.898	53.318	53.318	56.791	56.791	91.188	91.188	113.501	113.501	123.509	123.509	133.517	133.517
27	42.898	42.898	52.413	52.413	55.584	55.584	91.145	91.145	109.914	109.914	119.502	119.502	129.090	129.090

MODEL : MDB350ER3 ~ M4MC100ER + M4MC125ER x 2

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	46.410	46.410	58.441	58.441	62.451	62.451	106.565	106.565	130.627	130.627	142.658	142.658	154.689	154.689
17	45.158	45.158	57.228	57.228	61.252	61.252	104.259	104.259	127.062	127.062	138.676	138.676	150.289	150.289
19	43.906	43.906	56.016	56.016	60.052	60.052	101.954	101.954	123.497	123.497	134.693	134.693	145.890	145.890
21	42.655	42.655	54.803	54.803	58.853	58.853	99.648	99.648	119.933	119.933	130.711	130.711	141.490	141.490
23	42.653	42.653	53.903	53.903	57.653	57.653	96.472	96.472	116.368	116.368	126.729	126.729	137.090	137.090
25	42.651	42.651	53.003	53.003	56.454	56.454	93.295	93.295	112.803	112.803	122.747	122.747	132.691	132.691
27	42.649	42.649	52.103	52.103	55.255	55.255	90.118	90.118	109.238	109.238	118.765	118.765	128.291	128.291

MODEL : MDB400ER4 ~ M4MC100ER x 4

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	58.702	58.702	73.907	73.907	78.975	78.975	134.728	134.728	165.138	165.138	180.343	180.343	195.548	195.548
17	57.121	57.121	72.374	72.374	77.459	77.459	130.385	130.385	160.632	160.632	175.309	175.309	189.987	189.987
19	55.541	55.541	70.842	70.842	75.942	75.942	126.042	126.042	156.125	156.125	170.275	170.275	184.425	184.425
21	53.961	53.961	69.310	69.310	74.426	74.426	121.699	121.699	151.619	151.619	165.241	165.241	178.863	178.863
23	53.956	53.956	68.171	68.171	72.909	72.909	119.187	119.187	147.112	147.112	160.207	160.207	173.301	173.301
25	53.950	53.950	67.032	67.032	71.393	71.393	116.674	116.674	142.606	142.606	155.173	155.173	167.740	167.740
27	53.945	53.945	65.894	65.894	69.876	69.876	114.161	114.161	138.099	138.099	150.139	150.139	162.178	162.178

R407C
MDB ~ ER SERIES (HEATING MODE)
MODEL : MDB450ER4 ~ M4MC150ER x 3

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	61.687	61.687	77.675	77.675	83.005	83.005	141.629	141.629	173.605	173.605	189.594	189.594	205.582	205.582
17	60.024	60.024	76.064	76.064	81.411	81.411	136.288	136.288	168.868	168.868	184.301	184.301	199.735	199.735
19	58.361	58.361	74.453	74.453	79.816	79.816	130.948	130.948	164.130	164.130	179.009	179.009	193.888	193.888
21	56.698	56.698	72.841	72.841	78.222	78.222	125.607	125.607	159.392	159.392	173.717	173.717	188.041	188.041
23	56.694	56.694	71.645	71.645	76.628	76.628	123.781	123.781	154.655	154.655	168.424	168.424	182.194	182.194
25	56.691	56.691	70.448	70.448	75.034	75.034	121.956	121.956	149.917	149.917	163.132	163.132	176.346	176.346
27	56.688	56.688	69.252	69.252	73.440	73.440	120.130	120.130	145.180	145.180	157.839	157.839	170.499	170.499

MODEL : MDB500ER4 ~ M4MC125ER x 4

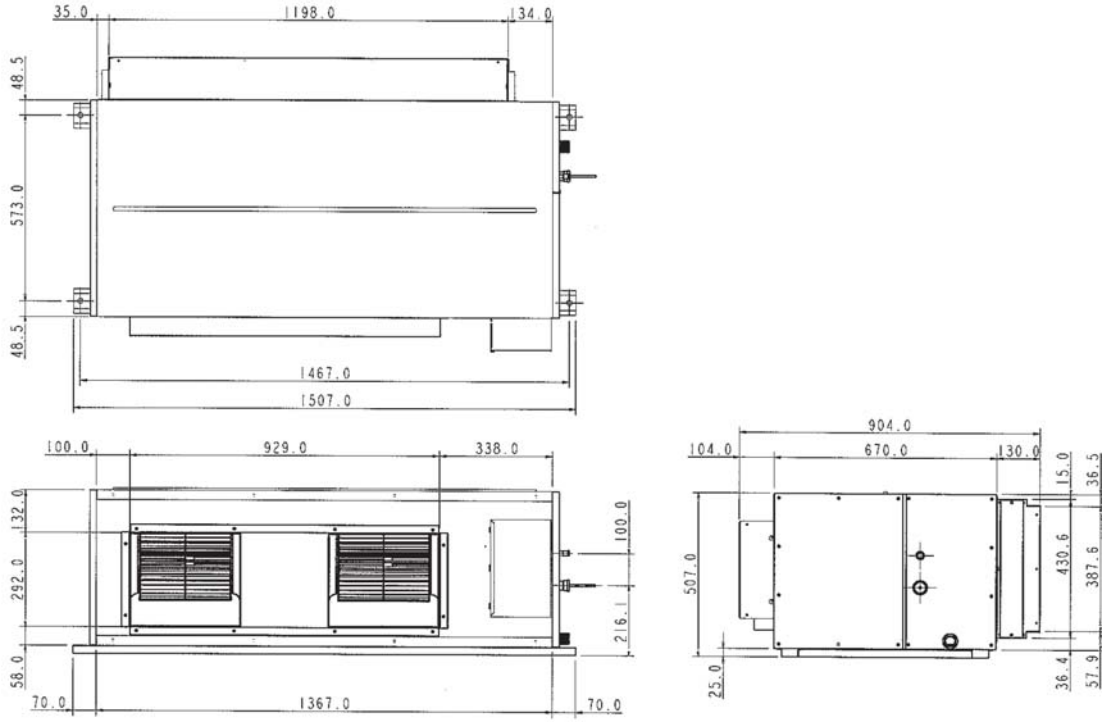
ID DB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15	63.622	63.622	79.980	79.980	85.432	85.432	145.412	145.412	178.128	178.128	194.486	194.486	210.844	210.844
17	61.939	61.939	78.331	78.331	83.795	83.795	143.090	143.090	173.268	173.268	189.058	189.058	204.847	204.847
19	60.256	60.256	76.682	76.682	82.157	82.157	140.769	140.769	168.409	168.409	183.629	183.629	198.850	198.850
21	58.574	58.574	75.033	75.033	80.519	80.519	138.447	138.447	163.549	163.549	178.201	178.201	192.854	192.854
23	58.539	58.539	73.796	73.796	78.881	78.881	133.250	133.250	158.689	158.689	172.773	172.773	186.857	186.857
25	58.505	58.505	72.559	72.559	77.244	77.244	128.053	128.053	153.830	153.830	167.345	167.345	180.860	180.860
27	58.470	58.470	71.322	71.322	75.606	75.606	122.856	122.856	148.970	148.970	161.917	161.917	174.864	174.864

MODEL : MDB600ER4 ~ M4MC150ER x 4

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	79.657	79.657	100.228	100.228	107.085	107.085	182.510	182.510	223.651	223.651	244.221	244.221	264.792	264.792
17	77.529	77.529	98.155	98.155	105.030	105.030	177.499	177.499	217.548	217.548	237.405	237.405	257.261	257.261
19	75.400	75.400	96.081	96.081	102.975	102.975	172.487	172.487	211.446	211.446	230.588	230.588	249.730	249.730
21	73.271	73.271	94.008	94.008	100.920	100.920	167.476	167.476	205.343	205.343	223.771	223.771	242.199	242.199
23	73.249	73.249	92.461	92.461	98.865	98.865	163.157	163.157	199.241	199.241	216.954	216.954	234.667	234.667
25	73.227	73.227	90.915	90.915	96.811	96.811	158.838	158.838	193.138	193.138	210.137	210.137	227.136	227.136
27	73.205	73.205	89.368	89.368	94.756	94.756	154.520	154.520	187.036	187.036	203.321	203.321	219.605	219.605

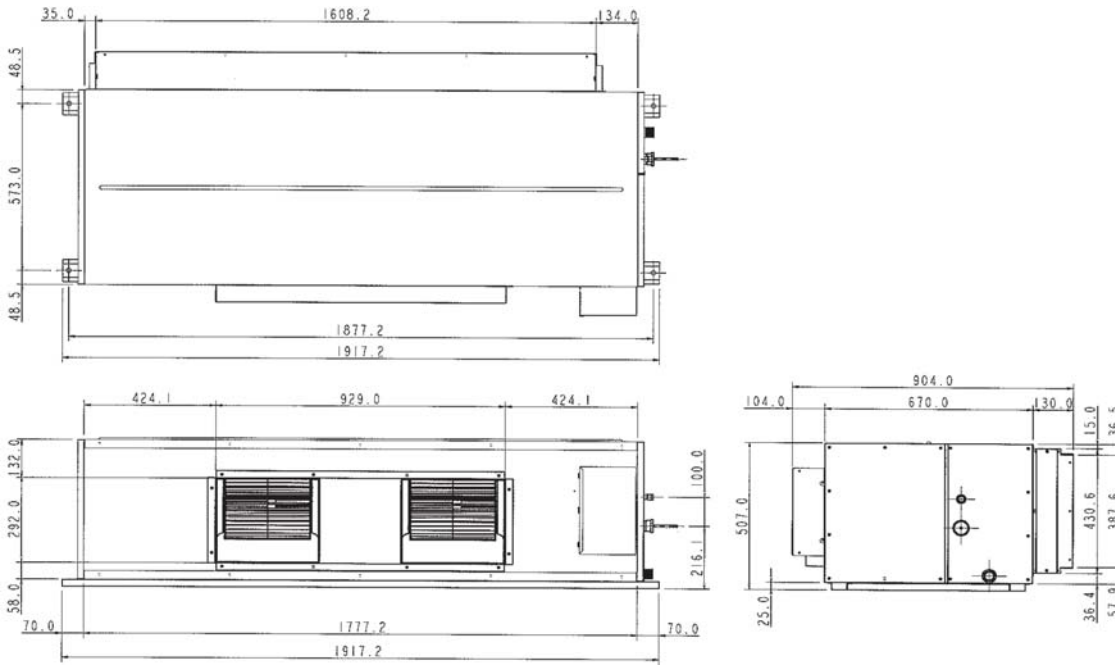
Outline and Dimension

INDOOR
MODEL : MDB 075ER



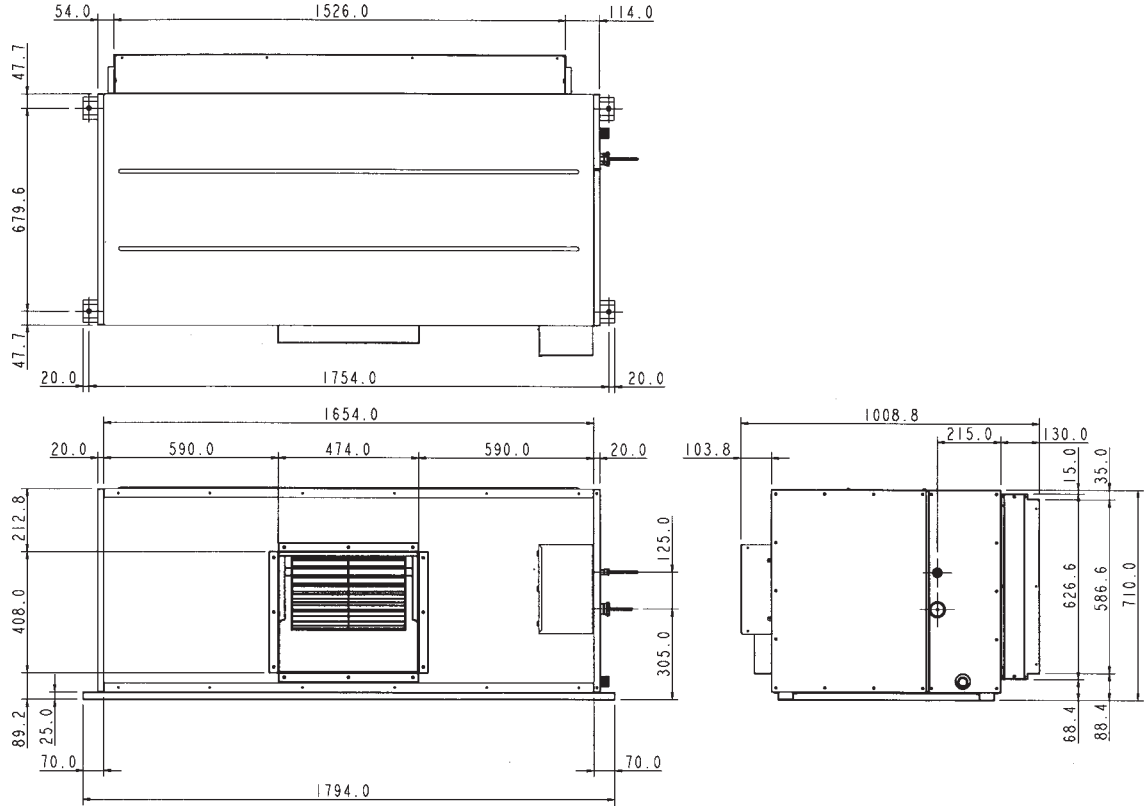
Dimension in mm

MODEL : MDB 100ER



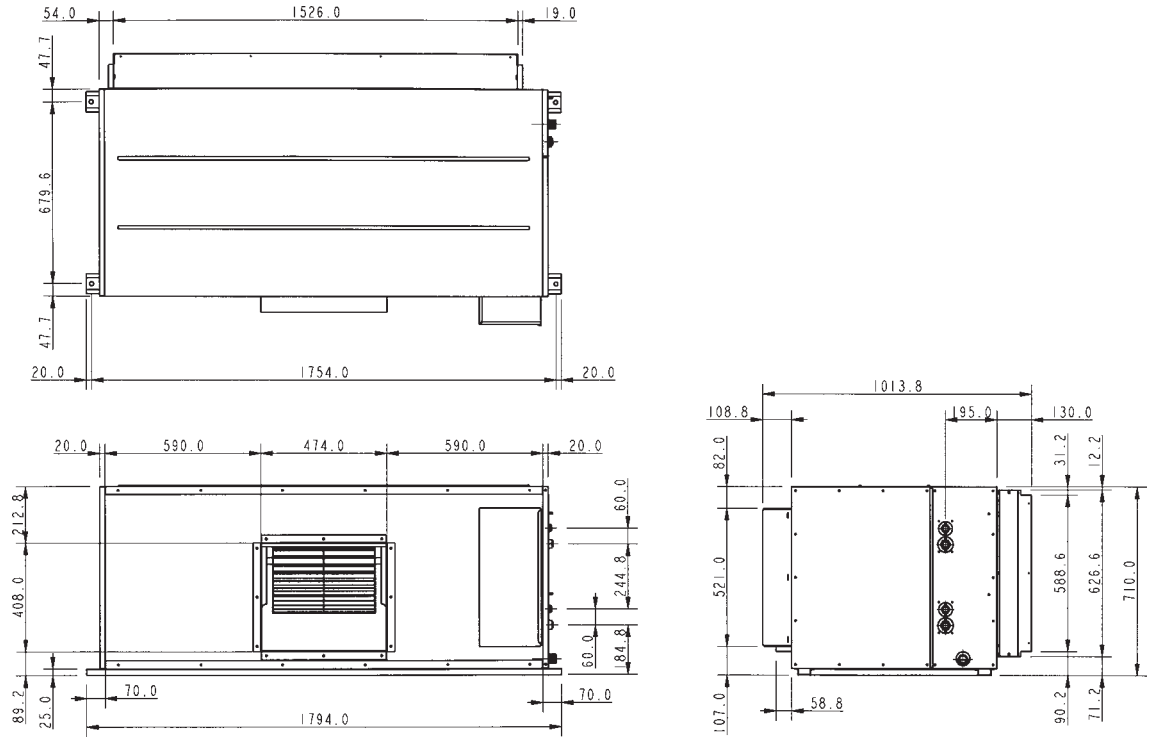
Dimension in mm

MODEL : MDB 125ER



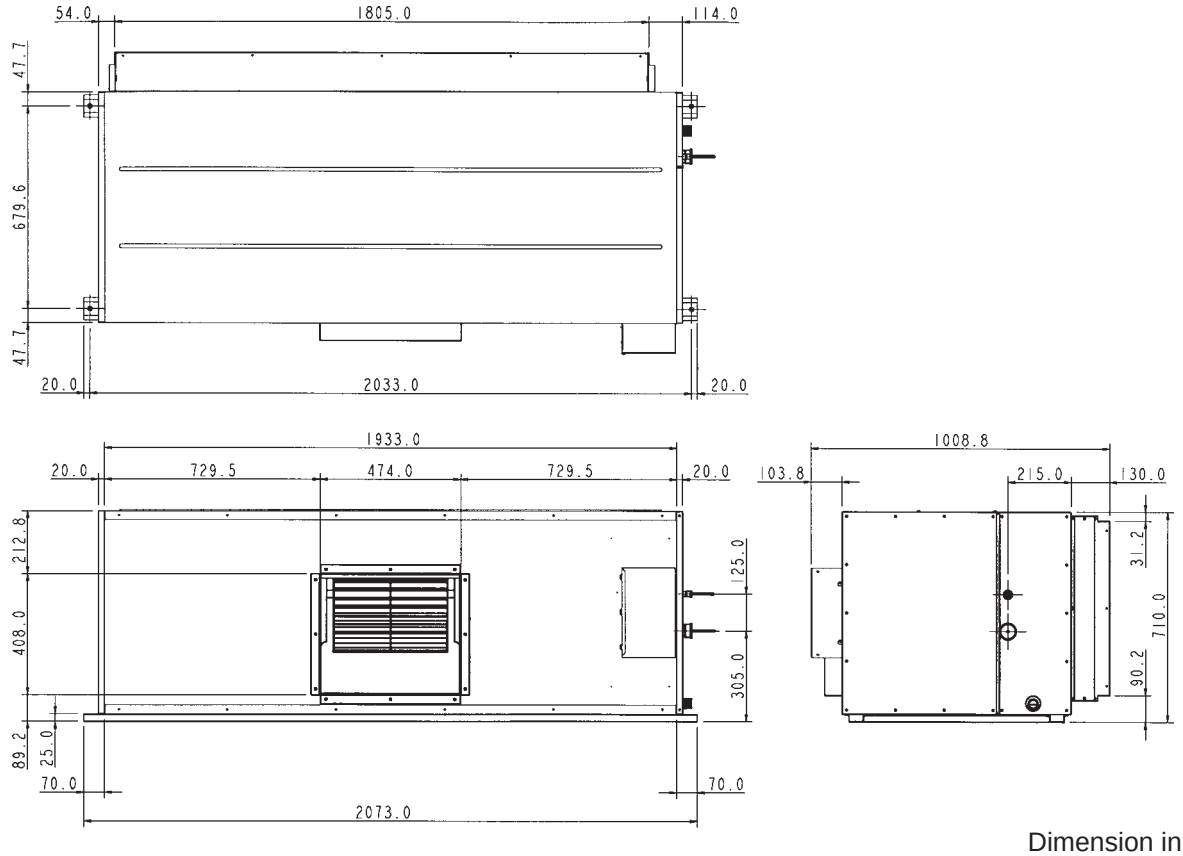
Dimension in mm

MODEL : MDB 125ER2



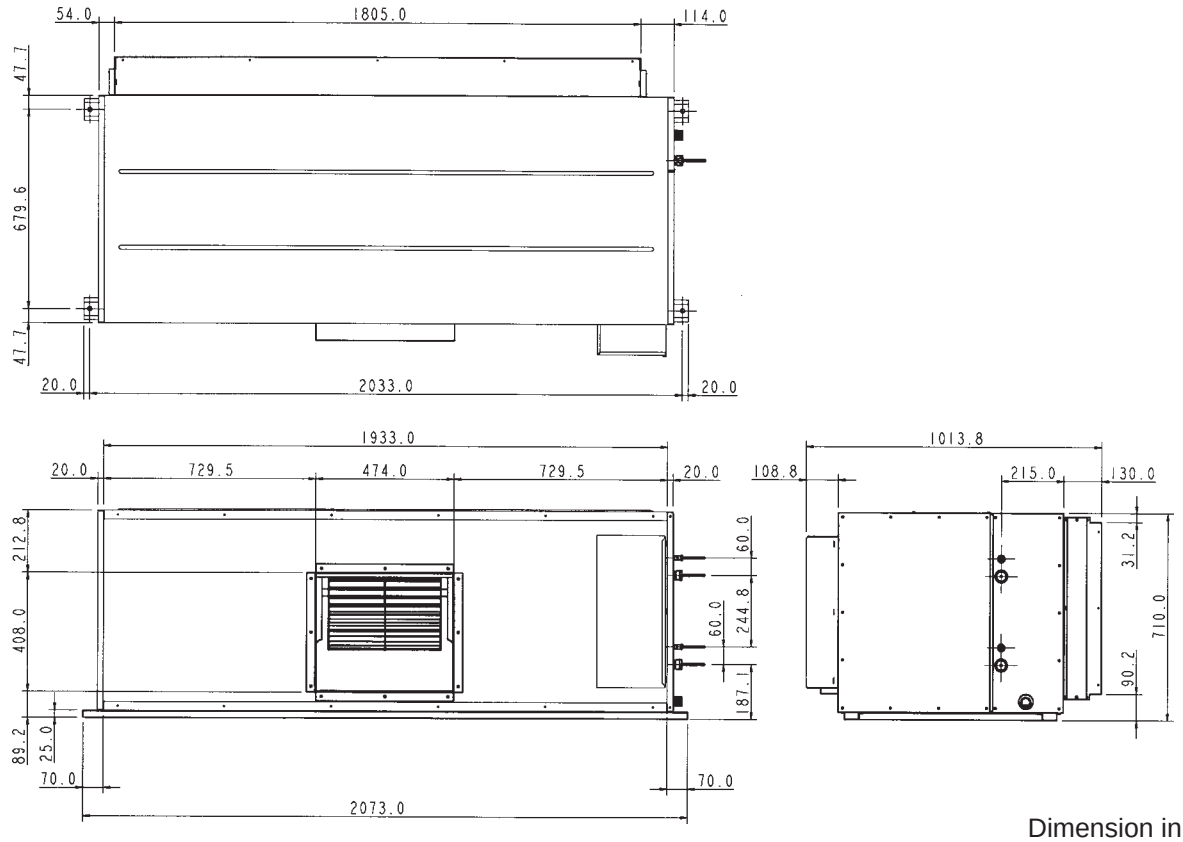
Dimension in mm

MODEL : MDB 150ER



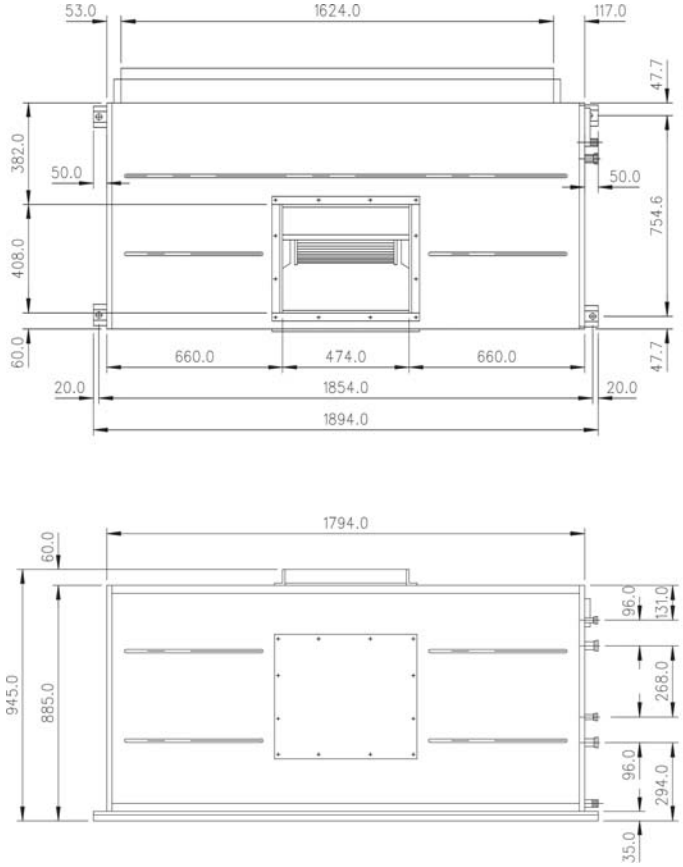
Dimension in mm

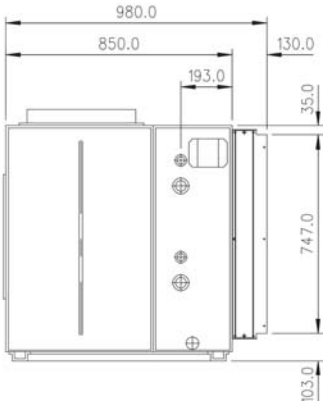
MODEL : MDB 150ER2



Dimension in mm

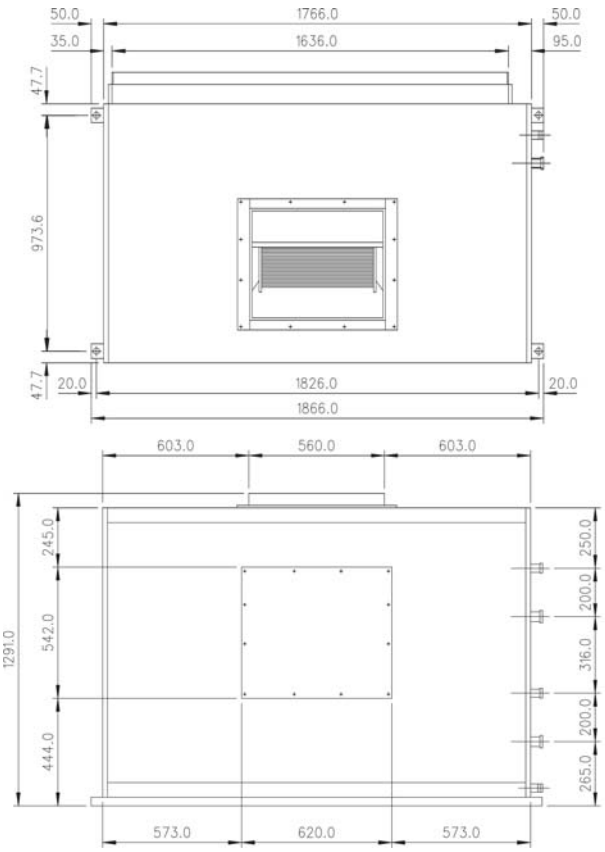
MODEL : MDB 200ER2

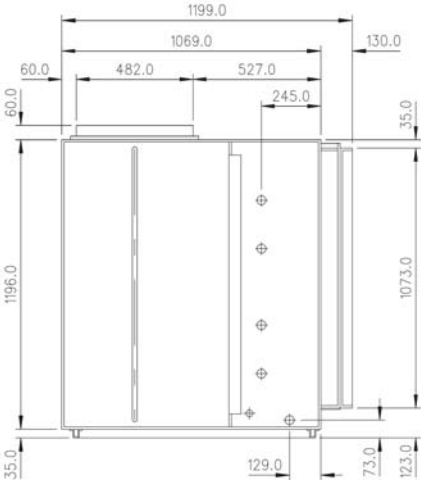




Dimension in mm

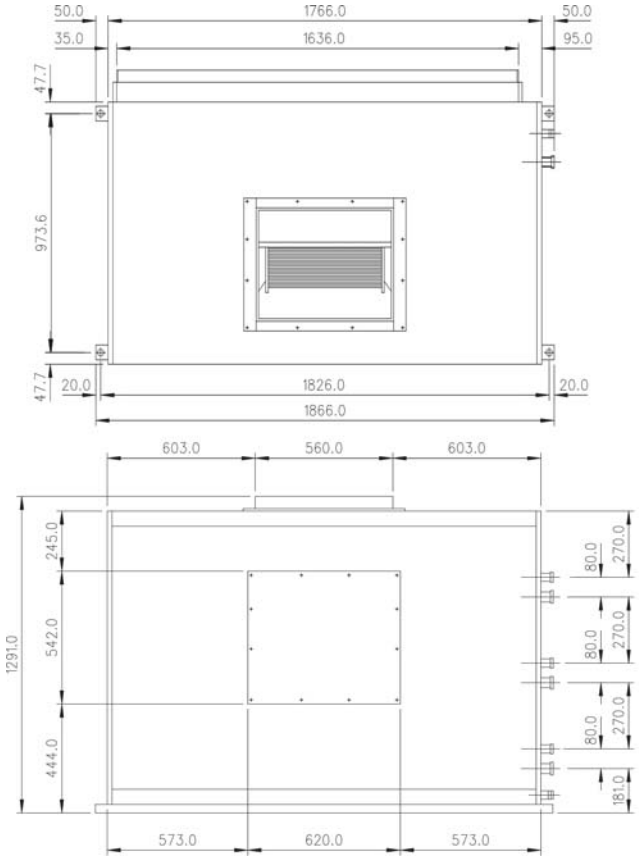
MODEL : MDB 250 / 300ER2

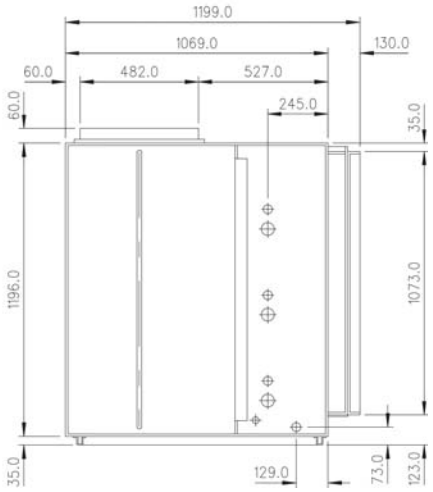




Dimension in mm

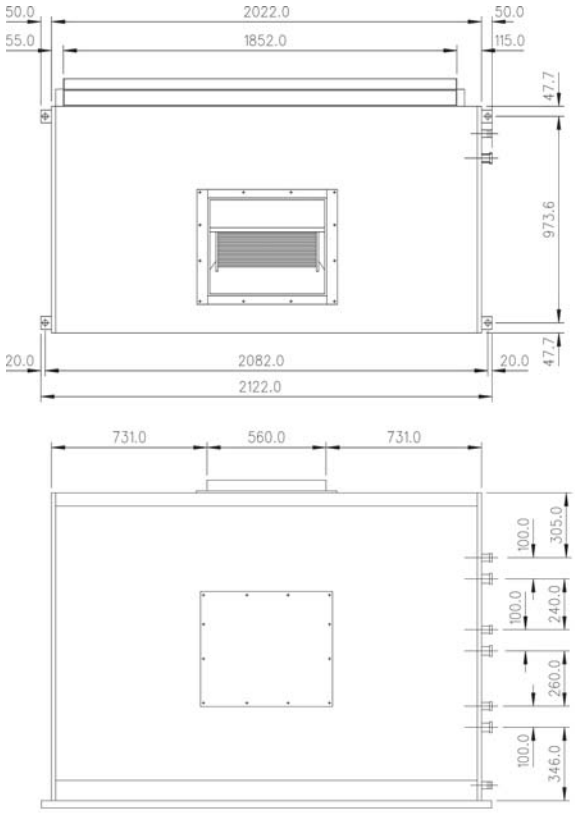
MODEL : MDB 300ER3

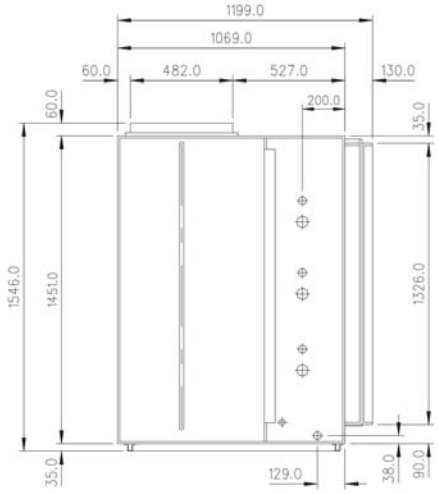




Dimension in mm

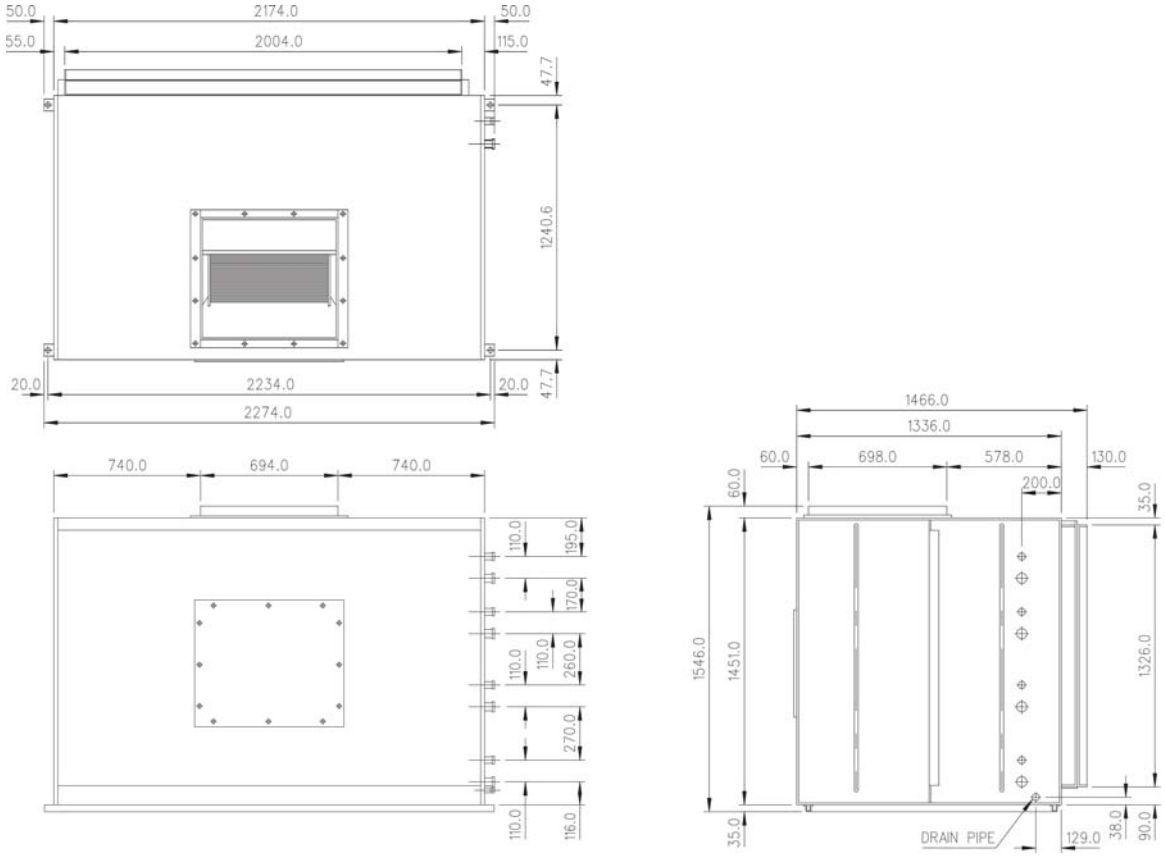
MODEL : MDB 350ER3





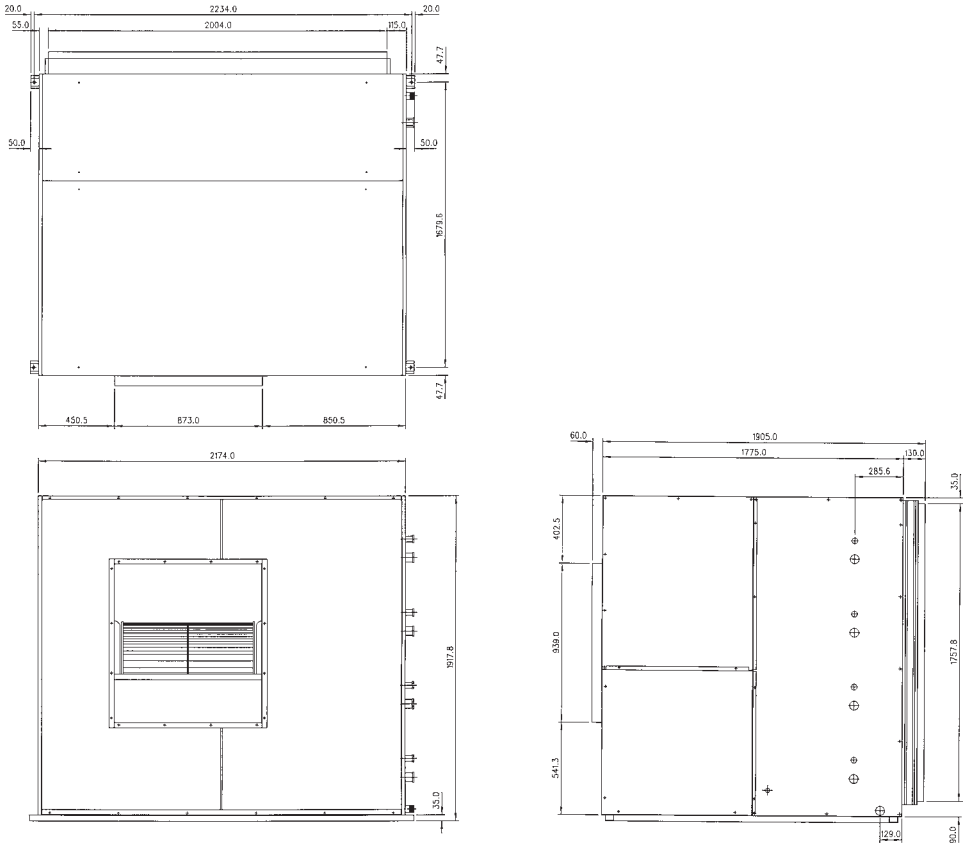
Dimension in mm

MODEL : MDB 400ER4 / 450ER3 / 500ER4



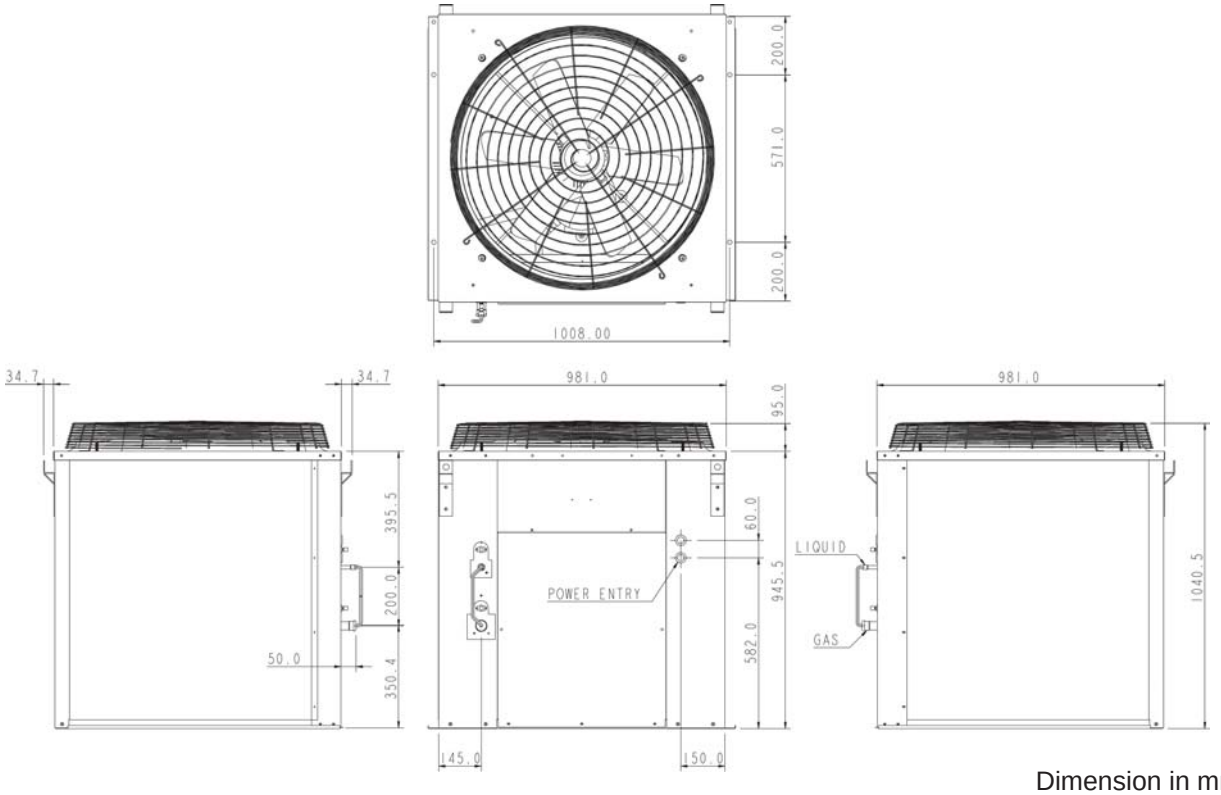
Dimension in mm

MODEL : MDB 600ER4



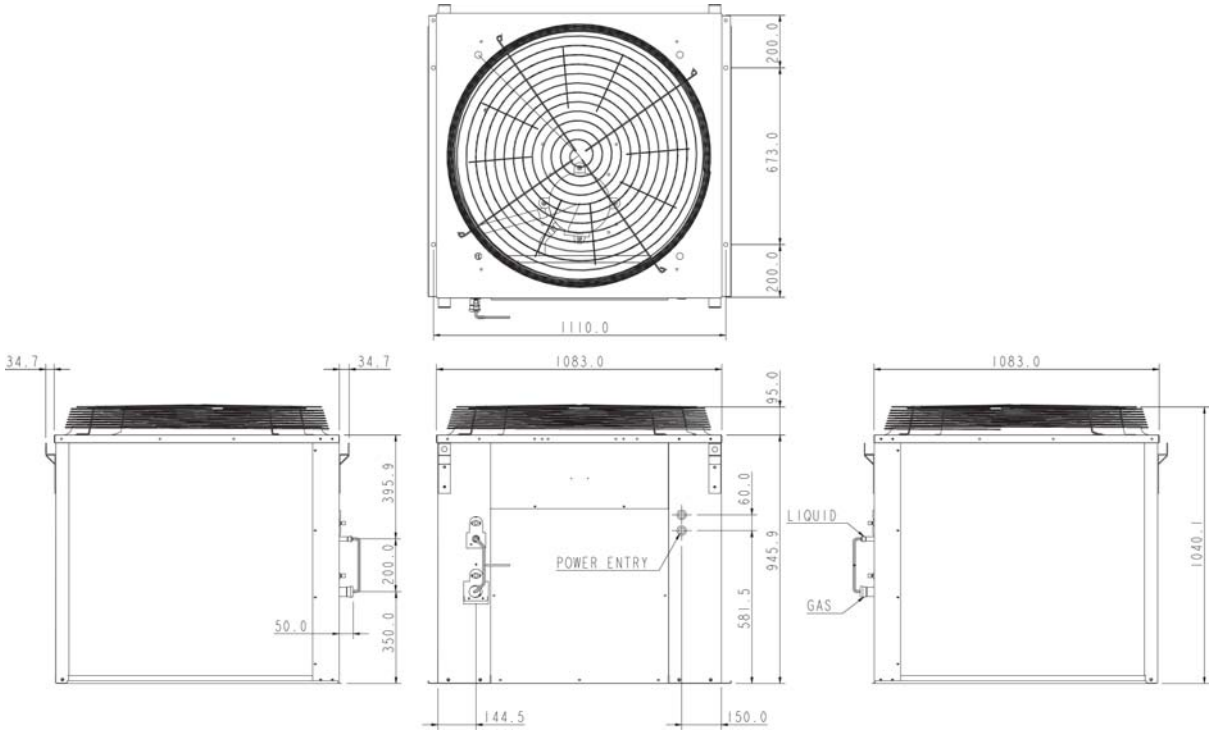
Dimension in mm

OUTDOOR
MODEL : M(4)MC 075 / 100ER



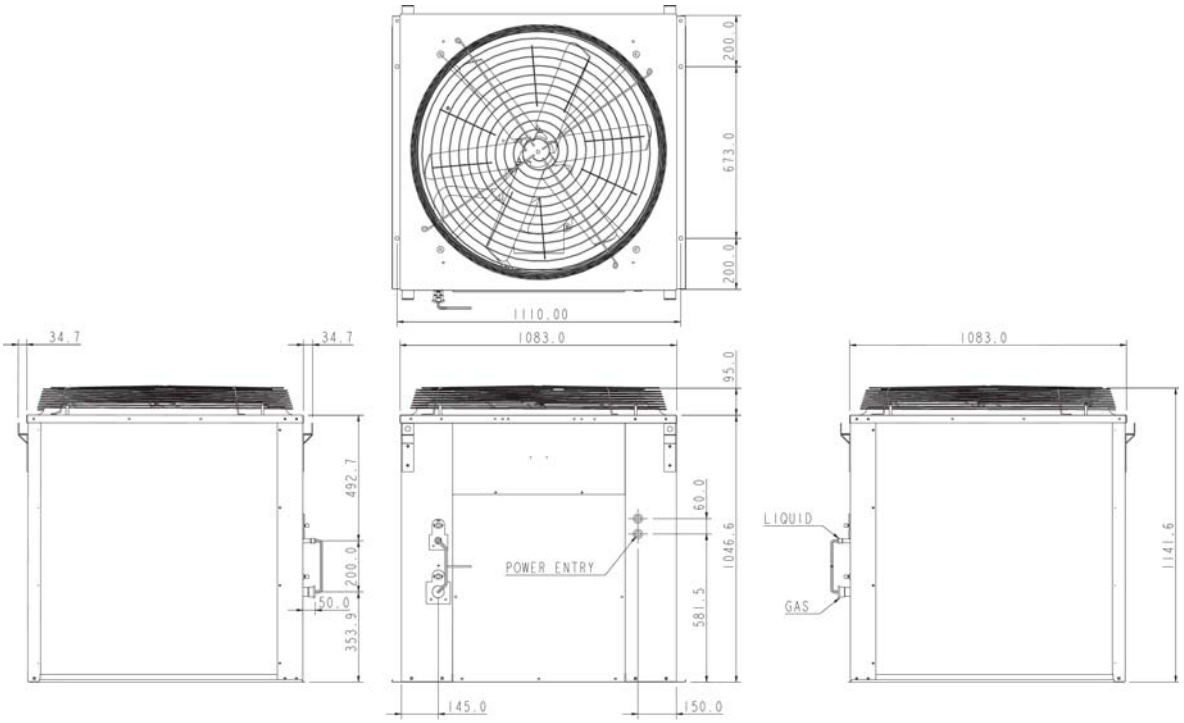
Dimension in mm

MODEL : M(4)MC 125ER



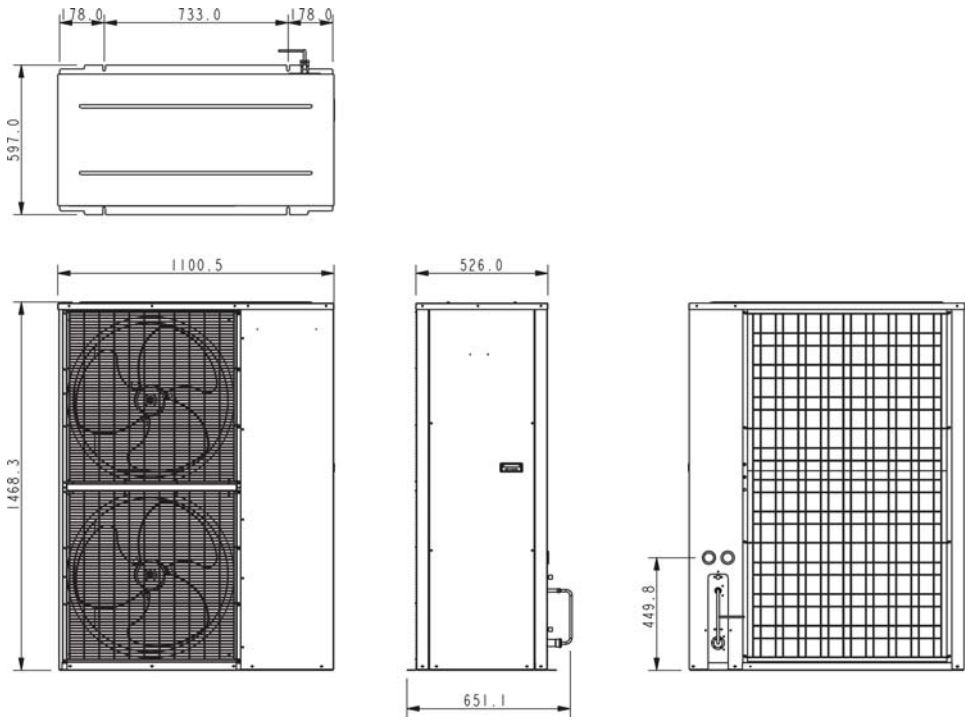
Dimension in mm

MODEL : M(4)MC 150ER



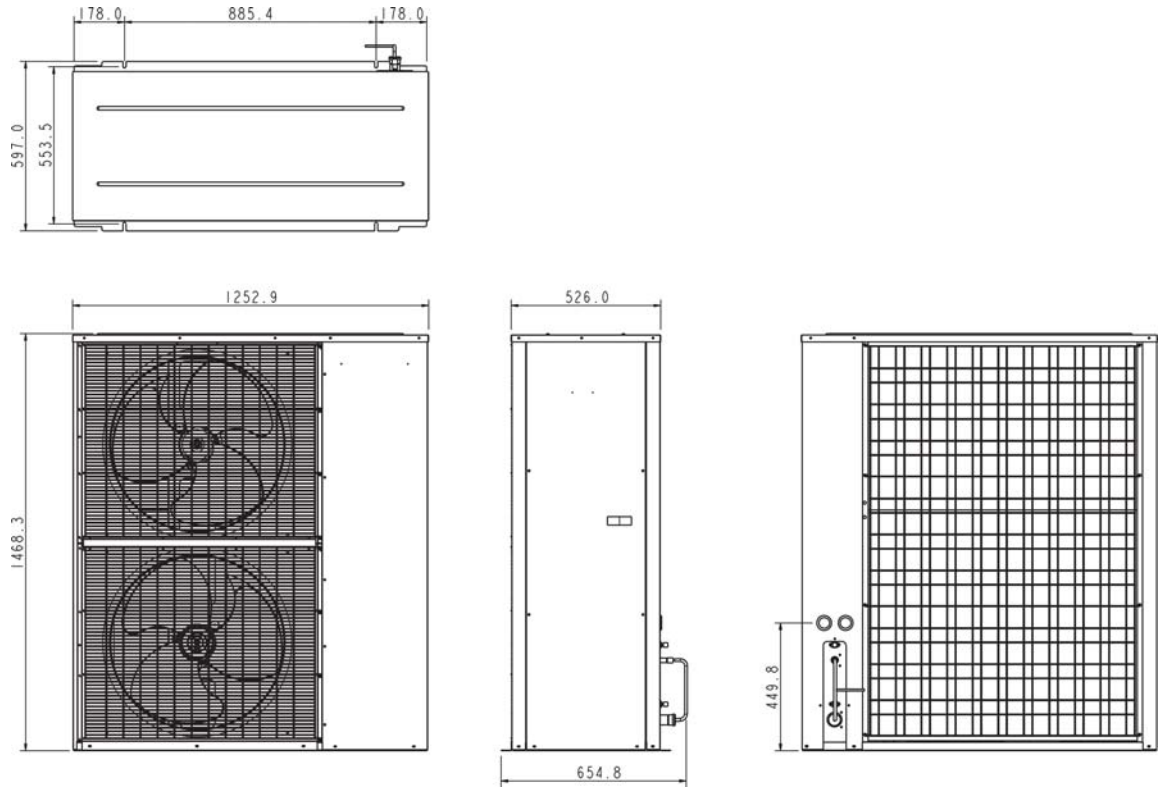
Dimension in mm

MODEL : MMC 075FR



Dimension in mm

MODEL : MMC 100 - 125FR



Dimension in mm

Electrical Data

MODEL	INDOOR UNIT		MDB075ER	MDB100ER
	OUTDOOR UNIT		MMC075ER	MMC100ER
INDOOR MOTOR	INSULATION GRADE		F	B
	POWER SOURCE	V/Ph/Hz	220~240/1/50	
	RATED INPUT POWER	W	754	1,010
	RATED RUNNING CURRENT	A	3.8	4.5
	MOTOR OUTPUT	W	375	500
	POLES		6	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	570	600
	RATED RUNNING CURRENT	A	1.2	
	MOTOR OUTPUT	W	350	
COMPRESSOR	INSULATION GRADE		NA	NA
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	CAPACITOR	µF	NIL	
	RATED INPUT POWER (COOLING)	W	6,379	7,970
	RATED INPUT POWER (HEATING)	W	6,571	8,225
	RATED RUNNING CURRENT (COOLING)	A	12.8	15.0
	RATED RUNNING CURRENT (HEATING)	A	12.9	15.2
	LOCKED ROTOR AMP.	A	95.0	125.0

1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 13253.

MODEL	INDOOR UNIT		MDB125ER
	OUTDOOR UNIT		MMC125ER
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	RATED INPUT POWER	W	1,420
	RATED RUNNING CURRENT	A	2.9
	MOTOR OUTPUT	W	1,500
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	RATED INPUT POWER	W	820
	RATED RUNNING CURRENT	A	1.2
	MOTOR OUTPUT	W	560
COMPRESSOR	INSULATION GRADE		NA
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	CAPACITOR	µF	NIL
	RATED INPUT POWER (COOLING)	W	9,172
	RATED INPUT POWER (HEATING)	W	7,862
	RATED RUNNING CURRENT (COOLING)	A	16.4
	RATED RUNNING CURRENT (HEATING)	A	15.0
	LOCKED ROTOR AMP.	A	110.0

1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 13253.

ELECTRICAL DATA - HEATPUMP (R22)

MODEL	INDOOR UNIT		MDB150ER1	MDB150ER2
	OUTDOOR UNIT		MMC150ER	MMC075ER x 2
INDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	1,740	
	RATED RUNNING CURRENT	A	3.3	
	MOTOR OUTPUT	W	1,500	
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	820	570
	RATED RUNNING CURRENT	A	1.2	
	MOTOR OUTPUT	W	560	350
COMPRESSOR	INSULATION GRADE		NA	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	CAPACITOR	µF	NIL	
	RATED INPUT POWER (COOLING)	W	12,502	6,379
	RATED INPUT POWER (HEATING)	W	10,261	6,571
	RATED RUNNING CURRENT (COOLING)	A	23.0	12.8
	RATED RUNNING CURRENT (HEATING)	A	20.5	12.9
	LOCKED ROTOR AMP.	A	198.0	95.0

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MODEL	INDOOR UNIT		MDB200ER2	MDB250ER2
	OUTDOOR UNIT		MMC100ER x 2	MMC125ER x 2
INDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	2,730	3,370
	RATED RUNNING CURRENT	A	5.0	6.3
	MOTOR OUTPUT	W	3,000	4,000
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	600	820
	RATED RUNNING CURRENT	A	1.2	
	MOTOR OUTPUT	W	350	560
COMPRESSOR	INSULATION GRADE		NA	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	CAPACITOR	µF	NIL	
	RATED INPUT POWER (COOLING)	W	7,970	9,172
	RATED INPUT POWER (HEATING)	W	8,225	7,862
	RATED RUNNING CURRENT (COOLING)	A	15.0	16.4
	RATED RUNNING CURRENT (HEATING)	A	15.2	15.0
	LOCKED ROTOR AMP.	A	125.0	110.0

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ELECTRICAL DATA - HEATPUMP (R22)

MODEL	INDOOR UNIT		MDB300ER2	MDB300ER3
	OUTDOOR UNIT		MMC150ER x 2	MMC100ER x 3
INDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	4,000	
	RATED RUNNING CURRENT	A	7.1	
	MOTOR OUTPUT	W	4,000	
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	820	600
	RATED RUNNING CURRENT	A	1.2	
	MOTOR OUTPUT	W	560	350
COMPRESSOR	INSULATION GRADE		NA	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	CAPACITOR	µF	NIL	
	RATED INPUT POWER (COOLING)	W	12,502	7,970
	RATED INPUT POWER (HEATING)	W	10,261	8,225
	RATED RUNNING CURRENT (COOLING)	A	23.0	15.0
	RATED RUNNING CURRENT (HEATING)	A	20.5	15.2
	LOCKED ROTOR AMP.	A	198.0	125.0

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MODEL	INDOOR UNIT		MDB350ER3		MDB400ER4
	OUTDOOR UNIT		MMC100ER	MMC125ER x 2	MMC100ER x 3
INDOOR MOTOR	INSULATION GRADE		CLASS F		
	POWER SOURCE	V/Ph/Hz	380~415/3/50		
	RATED INPUT POWER	W	4,510		4835
	RATED RUNNING CURRENT	A	8.4		8.7
	MOTOR OUTPUT	W	5,500		5500
	POLES		4		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F		
	POWER SOURCE	V/Ph/Hz	380~415/3/50		
	RATED INPUT POWER	W	600	820	600
	RATED RUNNING CURRENT	A	1.2		
	MOTOR OUTPUT	W	350	560	350
COMPRESSOR	INSULATION GRADE		NA		
	POWER SOURCE	V/Ph/Hz	380~415/3/50		
	CAPACITOR	µF	NIL		
	RATED INPUT POWER (COOLING)	W	7,970	9,172	7,970
	RATED INPUT POWER (HEATING)	W	8,225	7,862	8,225
	RATED RUNNING CURRENT (COOLING)	A	15.0	16.4	15.0
	RATED RUNNING CURRENT (HEATING)	A	15.2	15.0	15.2
	LOCKED ROTOR AMP.	A	125.0	110.0	125.0

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ELECTRICAL DATA - HEATPUMP (R22)

MODEL	INDOOR UNIT		MDB450ER3	MDB500ER4
	OUTDOOR UNIT		MMC150ER x 3	MMC125ER x 4
INDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	7,320	8035
	RATED RUNNING CURRENT	A	12.5	14.7
	MOTOR OUTPUT	W	7,500	11000
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	820	
	RATED RUNNING CURRENT	A	1.2	
	MOTOR OUTPUT	W	560	
COMPRESSOR	INSULATION GRADE		NA	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	CAPACITOR	µF	NIL	
	RATED INPUT POWER (COOLING)	W	12,502	9,172
	RATED INPUT POWER (HEATING)	W	10,261	7,862
	RATED RUNNING CURRENT (COOLING)	A	23.0	16.4
	RATED RUNNING CURRENT (HEATING)	A	20.5	15.0
	LOCKED ROTOR AMP.	A	198.0	110.0

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MODEL	INDOOR UNIT		MDB600ER4
	OUTDOOR UNIT		MMC150ER x 4
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	RATED INPUT POWER	W	12,900
	RATED RUNNING CURRENT	A	21.4
	MOTOR OUTPUT	W	11,000
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	RATED INPUT POWER	W	820
	RATED RUNNING CURRENT	A	1.2
	MOTOR OUTPUT	W	560
COMPRESSOR	INSULATION GRADE		NA
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	CAPACITOR	µF	NIL
	RATED INPUT POWER (COOLING)	W	12,502
	RATED INPUT POWER (HEATING)	W	10,261
	RATED RUNNING CURRENT (COOLING)	A	23.0
	RATED RUNNING CURRENT (HEATING)	A	20.5
	LOCKED ROTOR AMP.	A	198.0

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ELECTRICAL DATA - HEATPUMP (R22)
VERY HIGH STATIC

MODEL	INDOOR UNIT		MDB075ER	MDB100ER
	OUTDOOR UNIT		MMC075ER	MMC100ER
INDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	220~240/1/50	
	RATED INPUT POWER	W	1283	1732
	RATED RUNNING CURRENT	A	5.4	7.23
	MOTOR OUTPUT	W	800	960
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	570	600
	RATED RUNNING CURRENT	A	1.2	
	MOTOR OUTPUT	W	350	
COMPRESSOR	INSULATION GRADE		NA	NA
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	CAPACITOR	µF	NIL	
	RATED INPUT POWER (COOLING)	W	6,379	7,970
	RATED INPUT POWER (HEATING)	W	6,571	8,225
	RATED RUNNING CURRENT (COOLING)	A	12.8	15.0
	RATED RUNNING CURRENT (HEATING)	A	12.9	15.2
	LOCKED ROTOR AMP.	A	95.0	125.0

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MODEL	INDOOR UNIT		MDB125ER
	OUTDOOR UNIT		MMC125ER
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	RATED INPUT POWER	W	1586
	RATED RUNNING CURRENT	A	3.585
	MOTOR OUTPUT	W	2200
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	RATED INPUT POWER	W	820
	RATED RUNNING CURRENT	A	1.2
	MOTOR OUTPUT	W	560
COMPRESSOR	INSULATION GRADE		NA
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	CAPACITOR	µF	NIL
	RATED INPUT POWER (COOLING)	W	9,172
	RATED INPUT POWER (HEATING)	W	7,862
	RATED RUNNING CURRENT (COOLING)	A	16.4
	RATED RUNNING CURRENT (HEATING)	A	15.0
	LOCKED ROTOR AMP.	A	110.0

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ELECTRICAL DATA - HEATPUMP (R22)
VERY HIGH STATIC

MODEL	INDOOR UNIT		MDB150ER1	MDB150ER2
	OUTDOOR UNIT		MMC150ER	MMC075ER x 2
INDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	1865	
	RATED RUNNING CURRENT	A	3.813	
	MOTOR OUTPUT	W	2200	
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	820	570
	RATED RUNNING CURRENT	A	1.2	
	MOTOR OUTPUT	W	560	350
COMPRESSOR	INSULATION GRADE		NA	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	CAPACITOR	µF	NIL	
	RATED INPUT POWER (COOLING)	W	12,502	6,379
	RATED INPUT POWER (HEATING)	W	10,261	6,571
	RATED RUNNING CURRENT (COOLING)	A	23.0	12.8
	RATED RUNNING CURRENT (HEATING)	A	20.5	12.9
	LOCKED ROTOR AMP.	A	198.0	95.0

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ELECTRICAL DATA - HEATPUMP (R22)

MODEL	INDOOR UNIT		MDB075ER
	OUTDOOR UNIT		MMC075FR
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	220~240 / 1 / 50
	RATED INPUT POWER	W	754
	RATED RUNNING CURRENT	A	3.83
	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	272 / 328
	RATED RUNNING CURRENT	A	1.19 / 1.43
	MOTOR OUTPUT	W	180 / 260
COMPRESSOR	INSULATION GRADE		CLASS E
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	µF	NIL
	RATED INPUT POWER (COOLING)	W	7192
	RATED INPUT POWER (HEATING)	W	5462
	RATED RUNNING CURRENT (COOLING)	A	13.3
	RATED RUNNING CURRENT (HEATING)	A	11.8
	LOCKED ROTOR AMP.	A	86.0

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MODEL	INDOOR UNIT		MDB100ER
	OUTDOOR UNIT		MMC100FR
INDOOR MOTOR	INSULATION GRADE		CLASS B
	POWER SOURCE	V/Ph/Hz	220~240 / 1 / 50
	RATED INPUT POWER	W	1405
	RATED RUNNING CURRENT	A	6.11
	MOTOR OUTPUT	W	365
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	220~240 / 1 / 50
	RATED INPUT POWER	W	544
	RATED RUNNING CURRENT	A	2.37
	MOTOR OUTPUT	W	180 x 2
COMPRESSOR	INSULATION GRADE		CLASS E
	POWER SOURCE	V/Ph/Hz	380~415 / 3 / 50
	CAPACITOR	µF	NIL
	RATED INPUT POWER (COOLING)	W	8880
	RATED INPUT POWER (HEATING)	W	6870
	RATED RUNNING CURRENT (COOLING)	A	15.0
	RATED RUNNING CURRENT (HEATING)	A	12.5
	LOCKED ROTOR AMP.	A	114.0

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ELECTRICAL DATA - HEATPUMP (R22)

MODEL	**INDOOR UNIT**		**MDB125ER**
	OUTDOOR UNIT		**MMC125FR**
INDOOR MOTOR	**INSULATION GRADE**		CLASS F
	POWER SOURCE	**V/Ph/Hz**	380~415 / 3 / 50
	RATED INPUT POWER	**W**	1230
	RATED RUNNING CURRENT	**A**	2.67
	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**	1160
	RATED RUNNING CURRENT	**A**	5.08
	MOTOR OUTPUT	**W**	370 x 2
COMPRESSOR	**INSULATION GRADE**		CLASS E
	POWER SOURCE	**V/Ph/Hz**	380~415 / 3 / 50
	CAPACITOR	**μF**	NIL
	RATED INPUT POWER (COOLING)	**W**	9094
	RATED INPUT POWER (HEATING)	**W**	7223
	RATED RUNNING CURRENT (COOLING)	**A**	15.3
	RATED RUNNING CURRENT (HEATING)	**A**	12.7
	LOCKED ROTOR AMP.	**A**	150.0

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ELECTRICAL DATA - HEATPUMP (R407C)

MODEL	INDOOR UNIT		MDB075ER	MDB100ER
	OUTDOOR UNIT		M4MC075ER	M4MC100ER
INDOOR MOTOR	INSULATION GRADE		F	B
	POWER SOURCE	V/Ph/Hz	220~240/1/50	
	RATED INPUT POWER	W	754	1,010
	RATED RUNNING CURRENT	A	3.8	4.5
	MOTOR OUTPUT	W	375	500
	POLES		6	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	570	600
	RATED RUNNING CURRENT	A	1.2	
	MOTOR OUTPUT	W	350	
COMPRESSOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	CAPACITOR	µF	NIL	
	RATED INPUT POWER (COOLING)	W	6,700	8,550
	RATED INPUT POWER (HEATING)	W	6,900	9,000
	RATED RUNNING CURRENT (COOLING)	A	12.7	15.9
	RATED RUNNING CURRENT (HEATING)	A	12.7	16.4
	LOCKED ROTOR AMP.	A	95.0	125.0

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MODEL	INDOOR UNIT		MDB125ER
	OUTDOOR UNIT		M4MC125ER
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	RATED INPUT POWER	W	1,420
	RATED RUNNING CURRENT	A	2.9
	MOTOR OUTPUT	W	1,500
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	RATED INPUT POWER	W	820
	RATED RUNNING CURRENT	A	1.2
	MOTOR OUTPUT	W	560
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	CAPACITOR	µF	NIL
	RATED INPUT POWER (COOLING)	W	9,860
	RATED INPUT POWER (HEATING)	W	8,860
	RATED RUNNING CURRENT (COOLING)	A	17.5
	RATED RUNNING CURRENT (HEATING)	A	16.2
	LOCKED ROTOR AMP.	A	118.0

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ELECTRICAL DATA - HEATPUMP (R407C)

MODEL	INDOOR UNIT		MDB150ER1	MDB150ER2
	OUTDOOR UNIT		M4MC150ER	M4MC075ER x 2
INDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	1,740	
	RATED RUNNING CURRENT	A	3.3	
	MOTOR OUTPUT	W	1,500	
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	820	570
	RATED RUNNING CURRENT	A	1.2	
	MOTOR OUTPUT	W	560	350
COMPRESSOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	CAPACITOR	µF	NIL	
	RATED INPUT POWER (COOLING)	W	13,679	6,700
	RATED INPUT POWER (HEATING)	W	11,500	6,900
	RATED RUNNING CURRENT (COOLING)	A	23.9	12.7
	RATED RUNNING CURRENT (HEATING)	A	21.3	12.7
	LOCKED ROTOR AMP.	A	198.0	95.0

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MODEL	INDOOR UNIT		MDB200ER2	MDB250ER2
	OUTDOOR UNIT		M4MC100ER x 2	M4MC125ER x 2
INDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	2,730	3,370
	RATED RUNNING CURRENT	A	5.0	6.3
	MOTOR OUTPUT	W	3,000	4,000
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	600	820
	RATED RUNNING CURRENT	A	1.2	
	MOTOR OUTPUT	W	350	560
COMPRESSOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	CAPACITOR	µF	NIL	
	RATED INPUT POWER (COOLING)	W	8,550	9,860
	RATED INPUT POWER (HEATING)	W	9,000	8,660
	RATED RUNNING CURRENT (COOLING)	A	15.9	17.5
	RATED RUNNING CURRENT (HEATING)	A	16.4	16.2
	LOCKED ROTOR AMP.	A	125.0	118.0

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ELECTRICAL DATA - HEATPUMP (R407C)

MODEL	INDOOR UNIT		MDB300ER2	MDB300ER3
	OUTDOOR UNIT		M4MC150ER x 2	M4MC100ER x 3
INDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	4,000	
	RATED RUNNING CURRENT	A	7.1	
	MOTOR OUTPUT	W	4,000	
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	820	600
	RATED RUNNING CURRENT	A	1.2	
	MOTOR OUTPUT	W	560	350
COMPRESSOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	CAPACITOR	µF	NIL	
	RATED INPUT POWER (COOLING)	W	13,679	8,550
	RATED INPUT POWER (HEATING)	W	11,500	9,000
	RATED RUNNING CURRENT (COOLING)	A	23.9	15.9
	RATED RUNNING CURRENT (HEATING)	A	21.3	16.4
	LOCKED ROTOR AMP.	A	198.0	125.0

1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE
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MODEL	INDOOR UNIT		MDB350ER3		MDB400ER4
	OUTDOOR UNIT		M4MC100ER	M4MC125ER x 2	M4MC100ER x 3
INDOOR MOTOR	INSULATION GRADE		CLASS F		
	POWER SOURCE	V/Ph/Hz	380~415/3/50		
	RATED INPUT POWER	W	4,510		4835
	RATED RUNNING CURRENT	A	8.4		8.7
	MOTOR OUTPUT	W	5,500		5500
	POLES		4		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F		
	POWER SOURCE	V/Ph/Hz	380~415/3/50		
	RATED INPUT POWER	W	600	820	600
	RATED RUNNING CURRENT	A	1.2		
	MOTOR OUTPUT	W	350	560	350
COMPRESSOR	INSULATION GRADE		CLASS F		
	POWER SOURCE	V/Ph/Hz	380~415/3/50		
	CAPACITOR	µF	NIL		
	RATED INPUT POWER (COOLING)	W	8,550	9,860	8,550
	RATED INPUT POWER (HEATING)	W	9,000	8,860	9,000
	RATED RUNNING CURRENT (COOLING)	A	15.9	17.5	15.9
	RATED RUNNING CURRENT (HEATING)	A	16.4	16.2	16.4
	LOCKED ROTOR AMP.	A	125.0	110.0	125.0

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ELECTRICAL DATA - HEATPUMP (R407C)

MODEL	INDOOR UNIT		MDB450ER3	MDB500ER4
	OUTDOOR UNIT		M4MC150ER x 3	M4MC125ER x 4
INDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	7,320	8035
	RATED RUNNING CURRENT	A	12.5	14.7
	MOTOR OUTPUT	W	7,500	11000
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	RATED INPUT POWER	W	820	
	RATED RUNNING CURRENT	A	1.2	
	MOTOR OUTPUT	W	560	
COMPRESSOR	INSULATION GRADE		CLASS F	
	POWER SOURCE	V/Ph/Hz	380~415/3/50	
	CAPACITOR	µF	NIL	
	RATED INPUT POWER (COOLING)	W	13,679	9,860
	RATED INPUT POWER (HEATING)	W	11,500	8,860
	RATED RUNNING CURRENT (COOLING)	A	23.9	17.5
	RATED RUNNING CURRENT (HEATING)	A	21.3	16.2
	LOCKED ROTOR AMP.	A	198.0	118.0

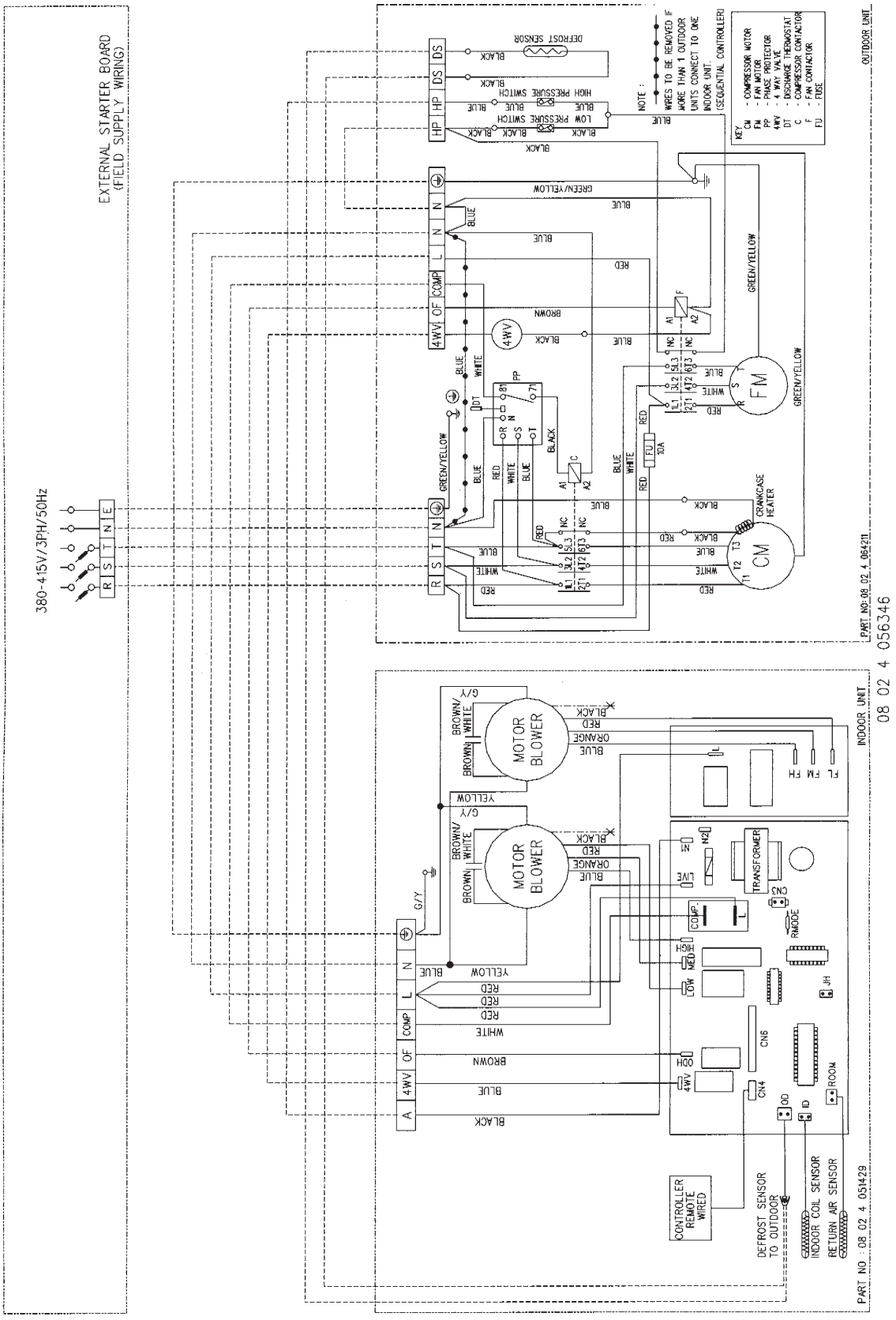
1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 13253.

MODEL	INDOOR UNIT		MDB600ER4
	OUTDOOR UNIT		M4MC150ER x 4
INDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	RATED INPUT POWER	W	12,900
	RATED RUNNING CURRENT	A	21.4
	MOTOR OUTPUT	W	11,000
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	RATED INPUT POWER	W	820
	RATED RUNNING CURRENT	A	1.2
	MOTOR OUTPUT	W	560
COMPRESSOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	380~415/3/50
	CAPACITOR	µF	NIL
	RATED INPUT POWER (COOLING)	W	13,679
	RATED INPUT POWER (HEATING)	W	11,500
	RATED RUNNING CURRENT (COOLING)	A	23.9
	RATED RUNNING CURRENT (HEATING)	A	21.3
	LOCKED ROTOR AMP.	A	198.0

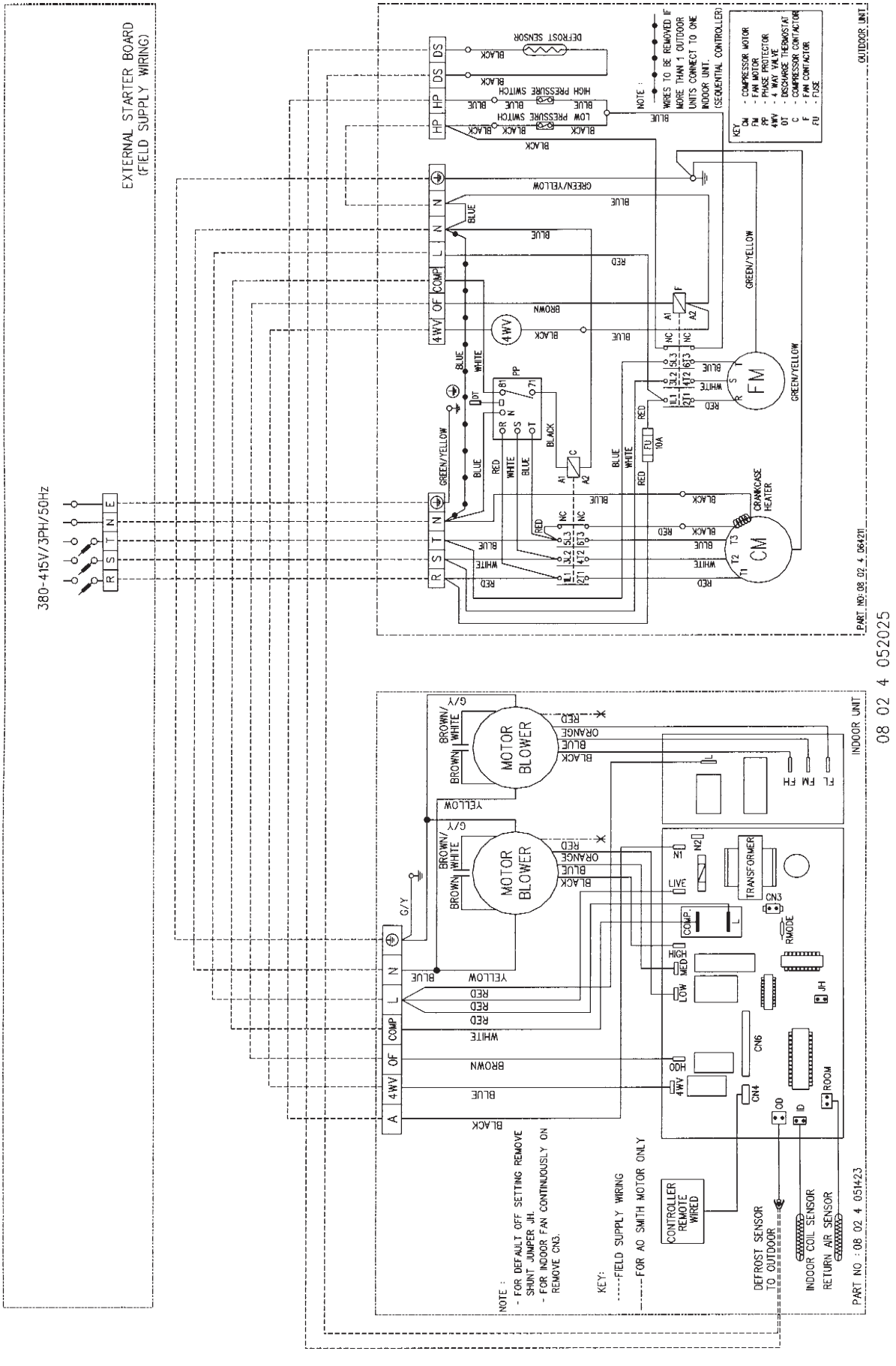
1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 13253.

Wiring Diagrams

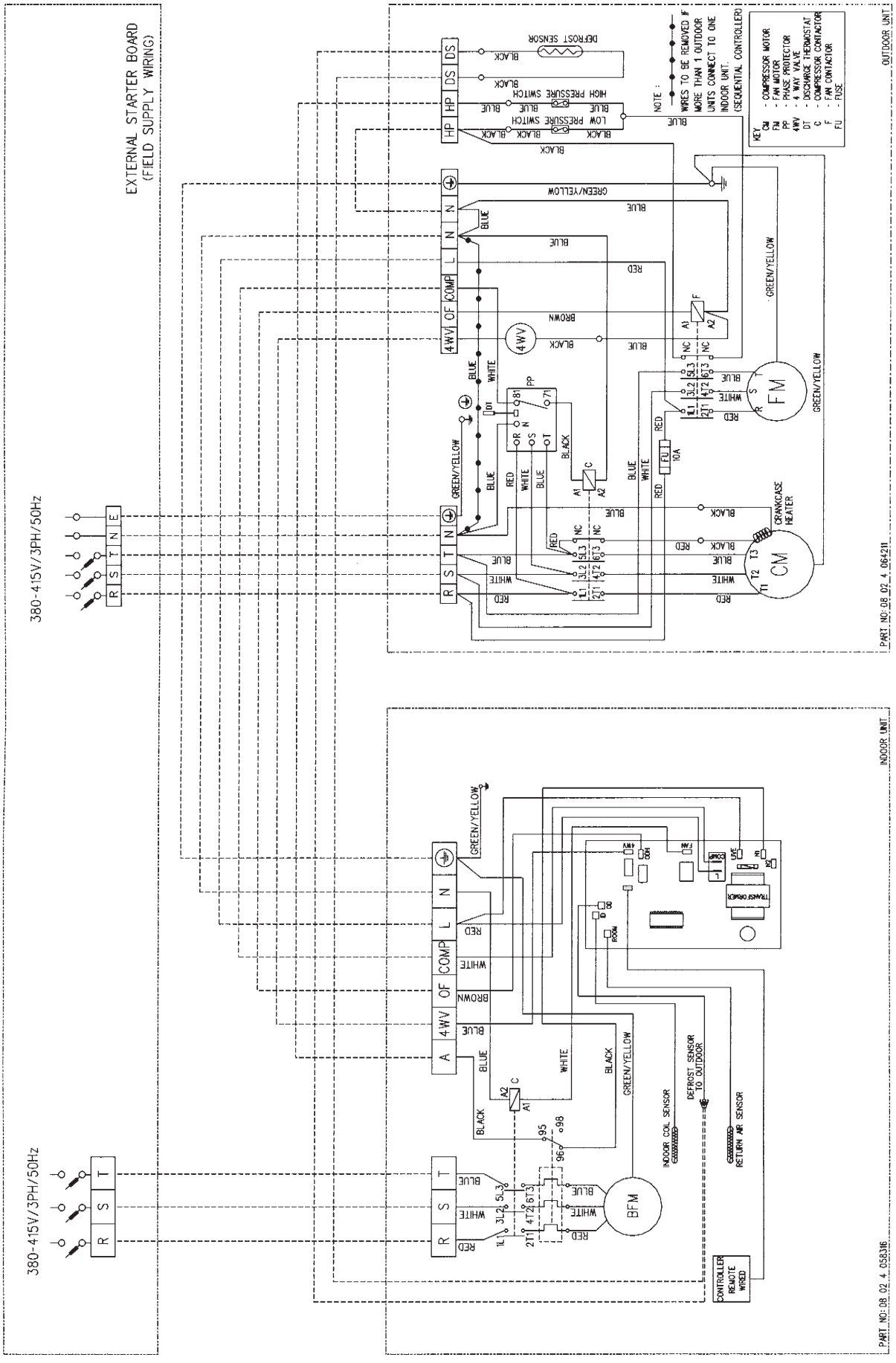
MODEL : MDB 075ER vs M(4)MC 075ER



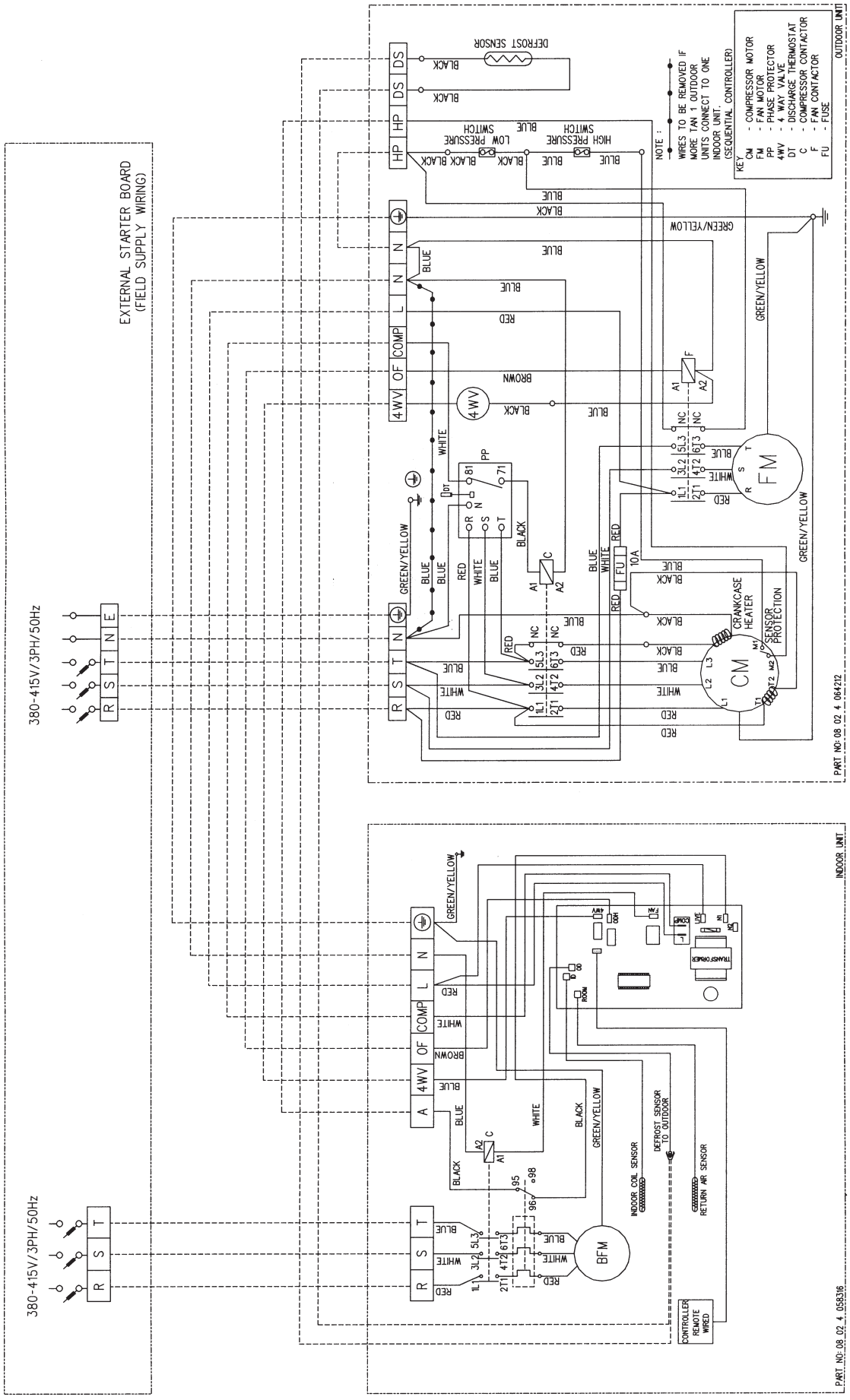
MODEL : MDB 100ER vs M(4)MC 100ER



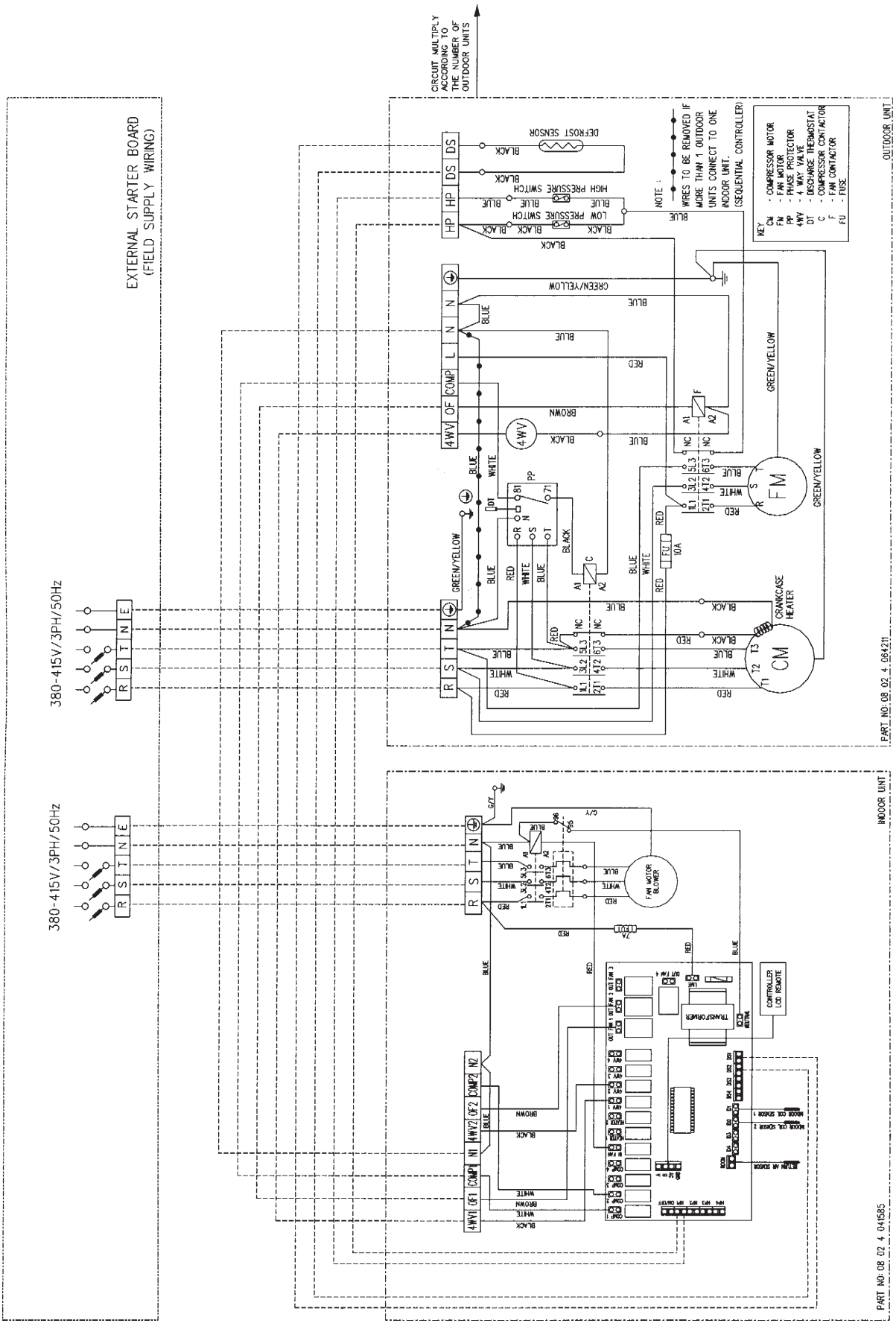
MODEL : MDB 125ER vs M(4)MC 125ER



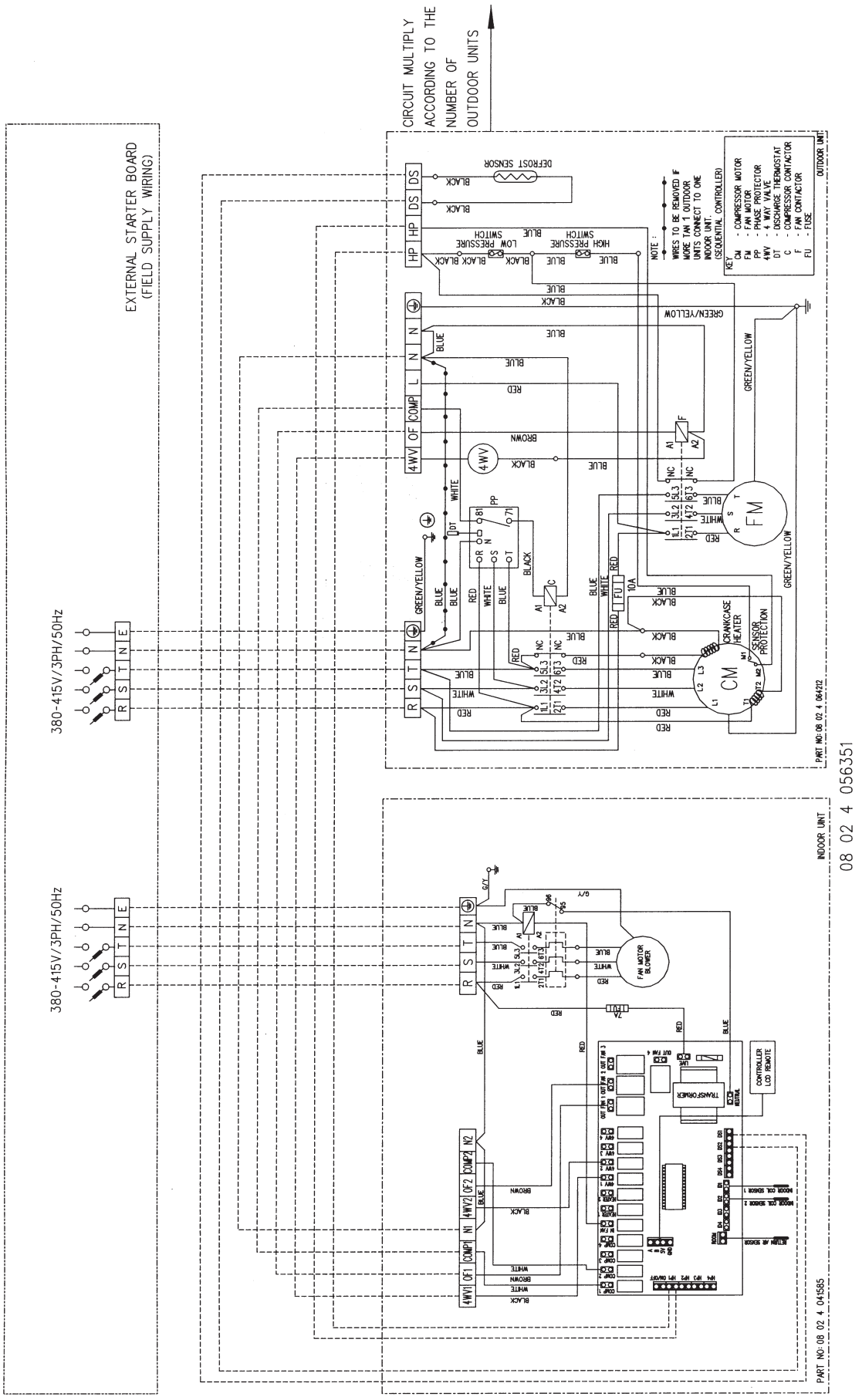
MODEL : MDB 150ER vs M(4)MC 150ER



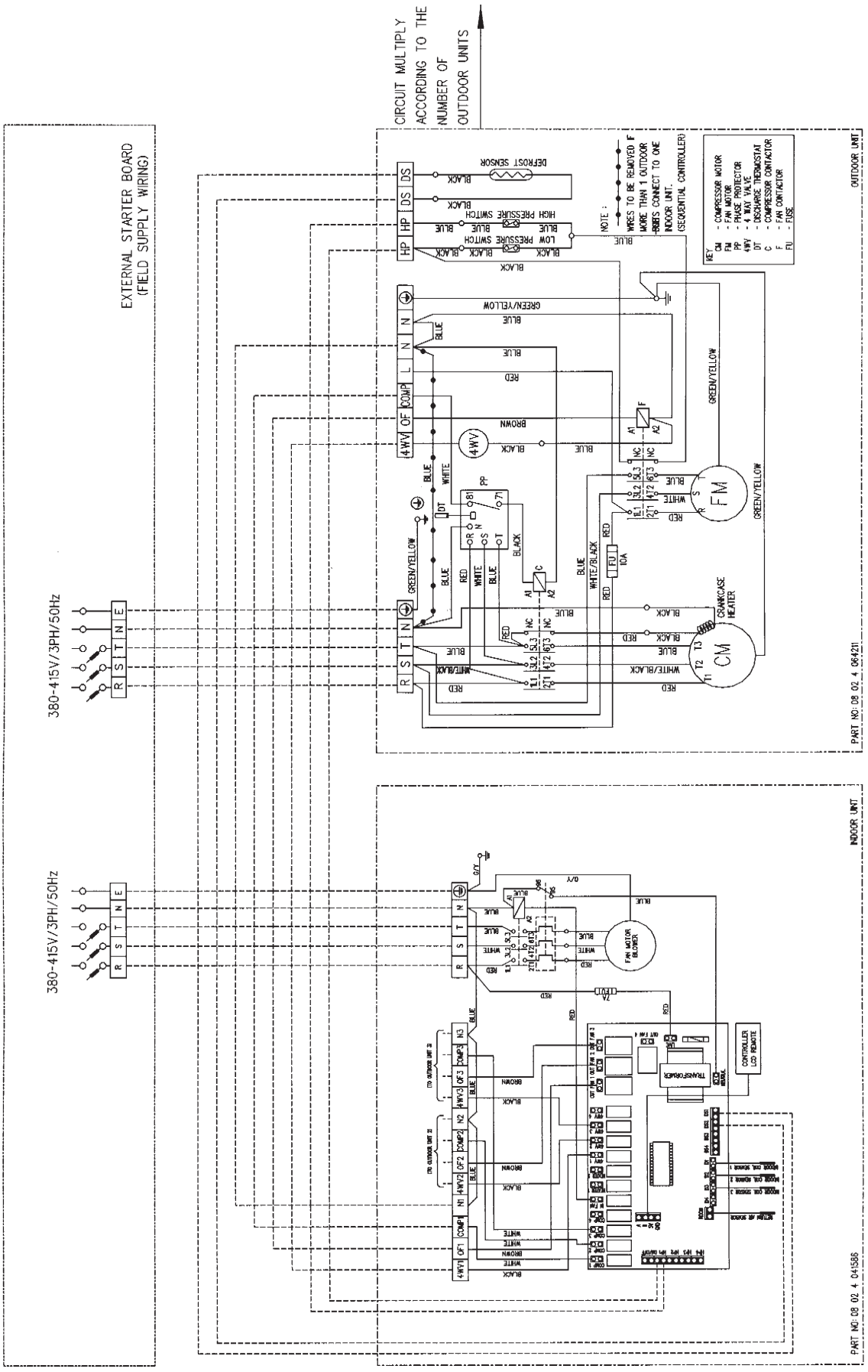
MODEL : MDB 150ER2 vs M(4)MC 075ER x 2
MDB 200ER2 vs M(4)MC 100ER x 2
MDB 250ER2 vs M(4)MC 125ER x 2



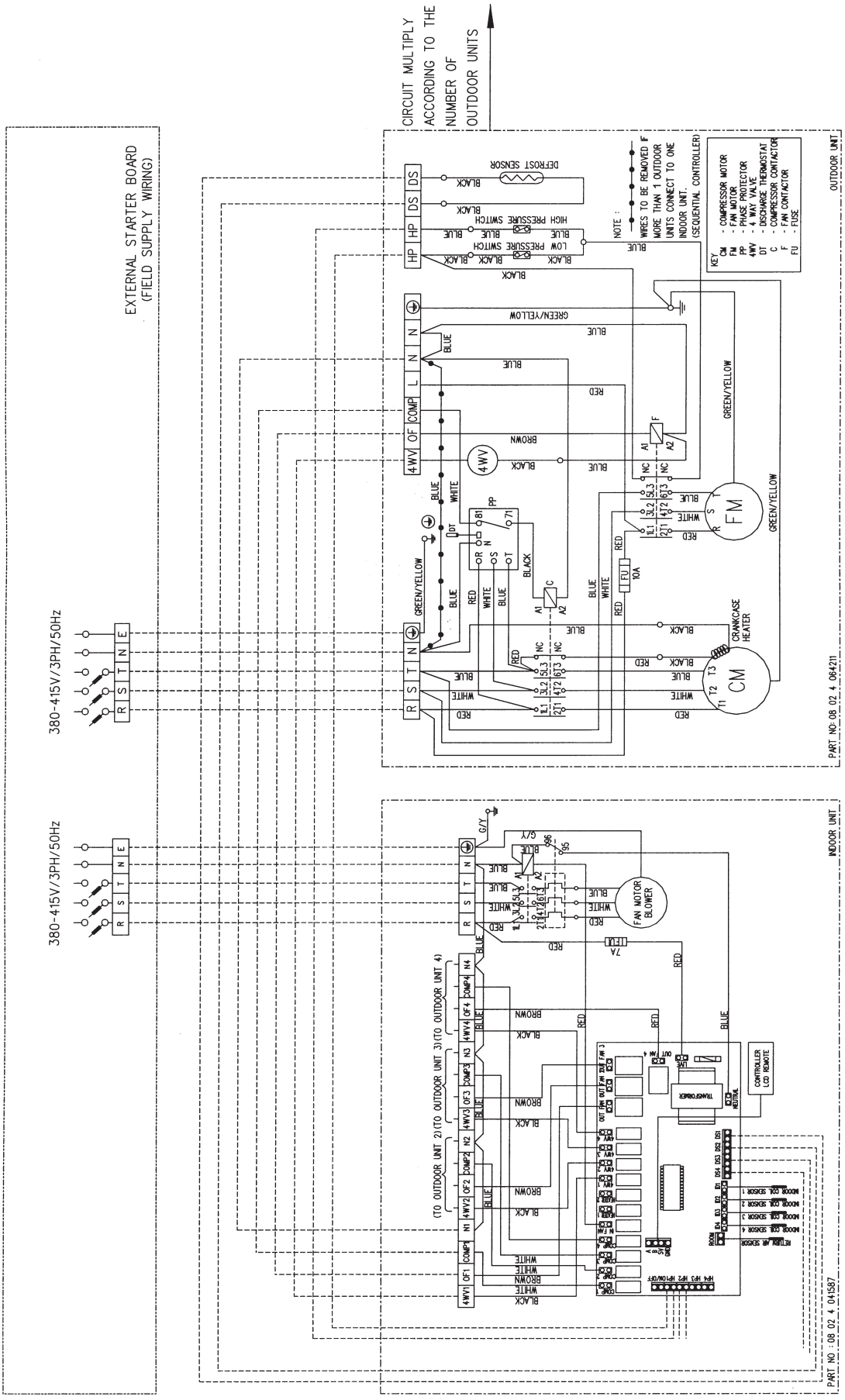
MODEL : MDB 300ER2 vs M(4)MC 150ER x 2



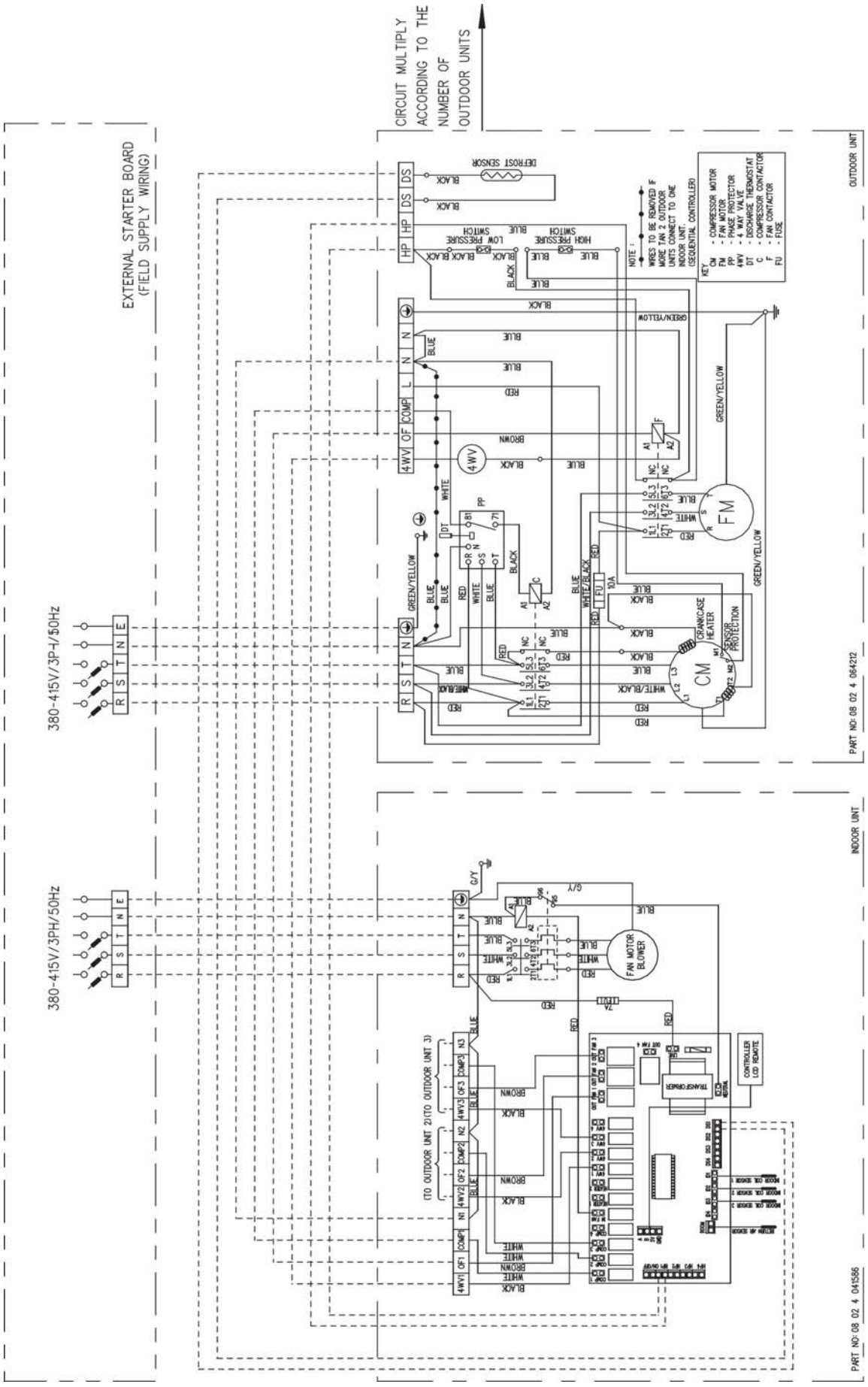
MODEL : MDB 300ER3 vs M(4)MC 100ER x 3
MDB 350ER3 vs M(4)MC 100ER + M(4)MC 125ER x 2



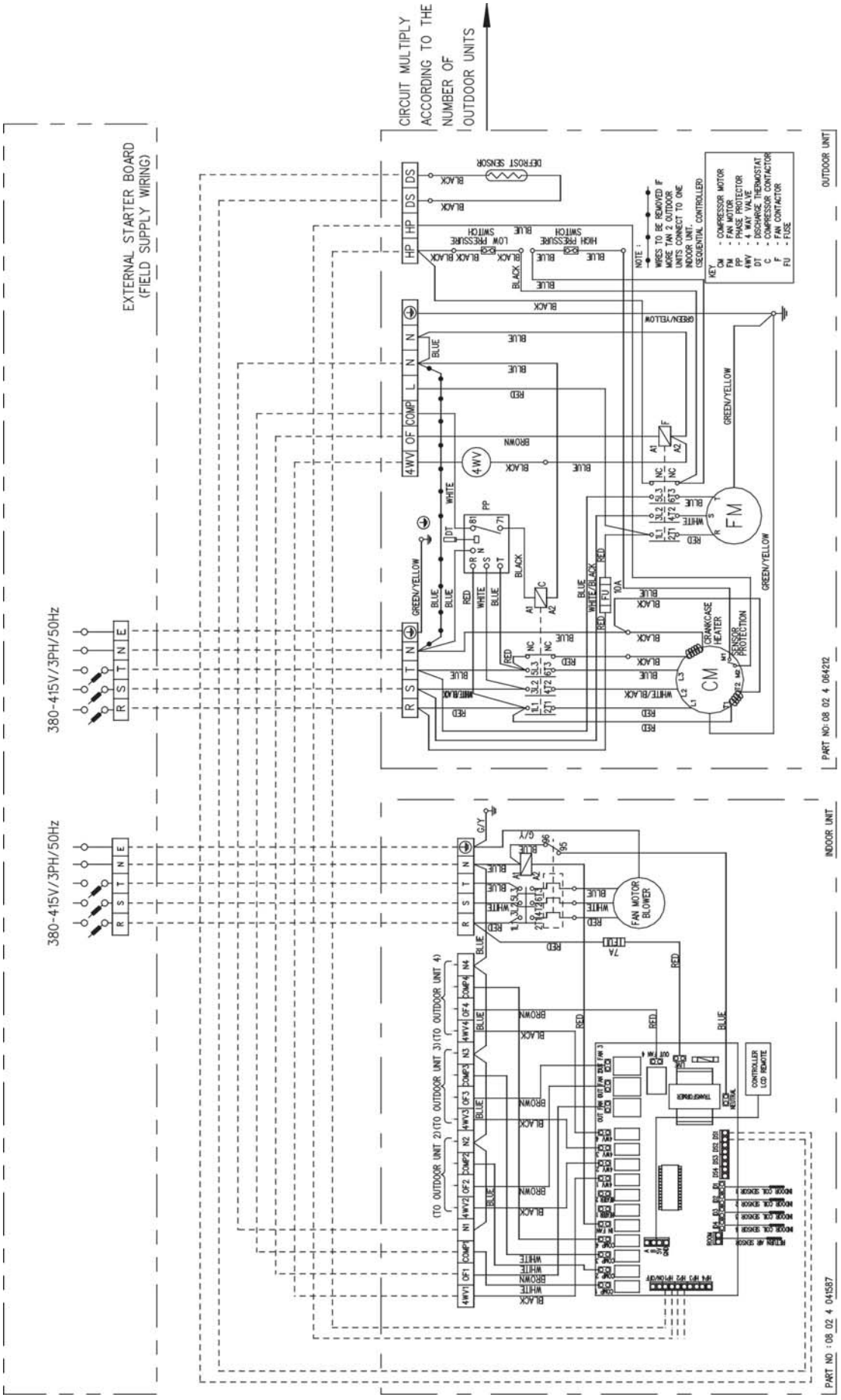
MODEL : MDB 400ER4 vs M(4)MC 100ER x 4
MDB 500ER4 vs M(4)MC 125ER x 4



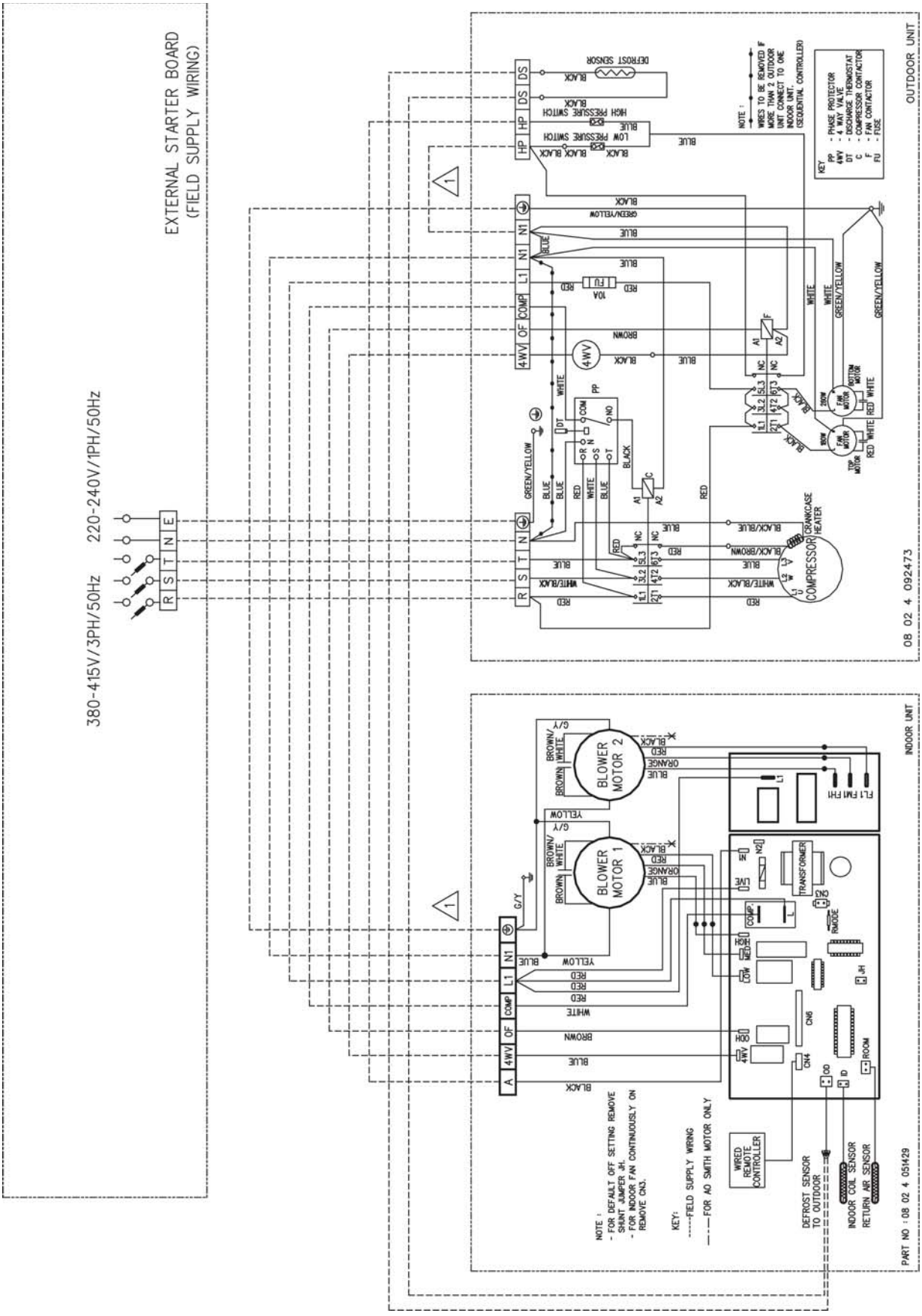
MODEL : MDB 450ER3 vs M(4)MC 150ER x 3



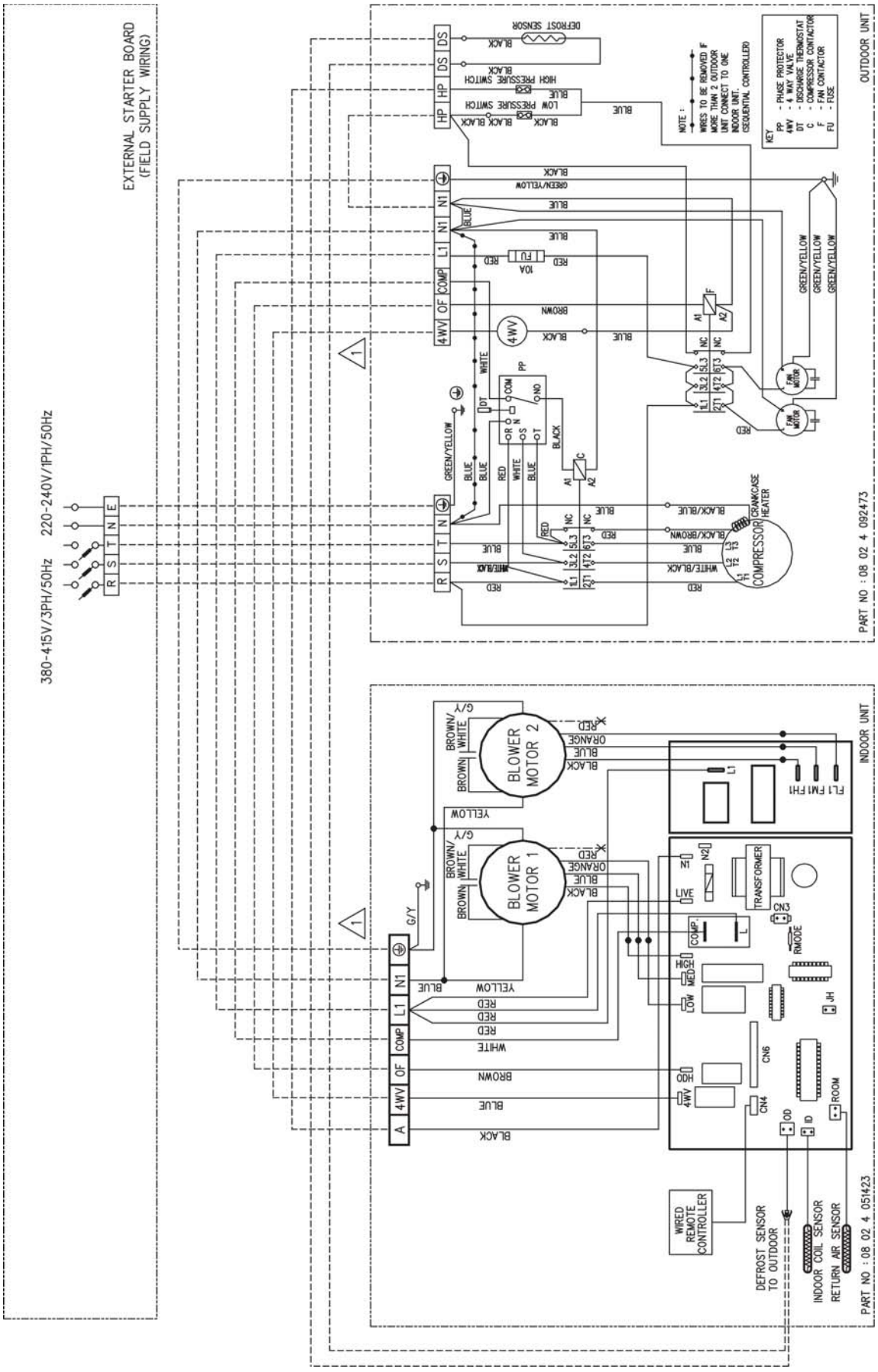
MODEL : MDB 600ER4 vs M(4)MC 150ER x 4



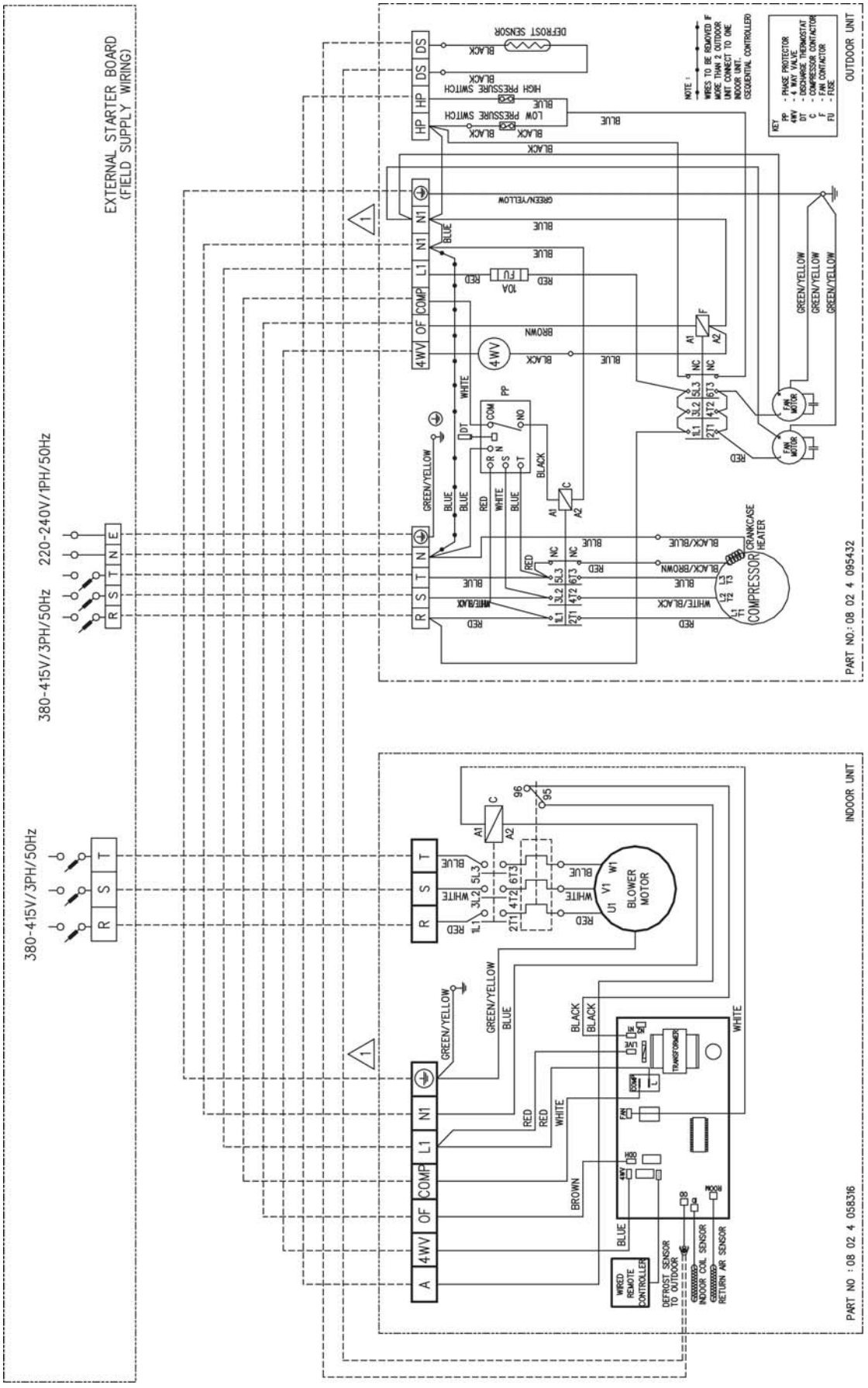
MODEL : MDB 075ER vs MMC 075FR



MODEL : MDB 100ER vs MMC 100FR



MODEL : MDB 125ER vs MMC 125FR



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.

Note: Avoid direct contact of any coil treatment material on the plastic part. This may cause plastic part to deform as a result of chemical reaction.

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.

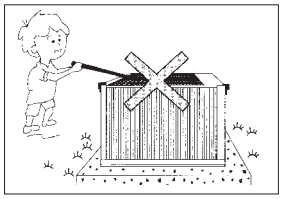
Do not charge OXYGEN, ACETYLENE or other flammable and poisonous gases into the refrigeration cycle when performing a leakage test or an airtight test. These types of gases are extremely dangerous, because explosion can occur.

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

CAUTION FOR USE

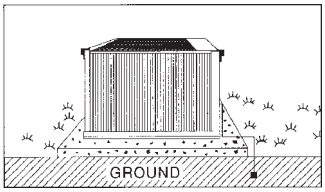
Bear the following points in mind to safeguard against malfunction and breakdown.

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.

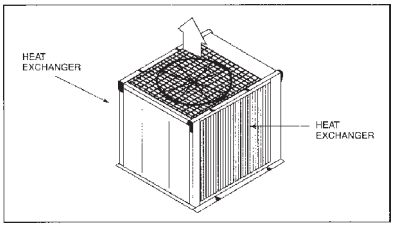


MAINTENANCE

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.



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

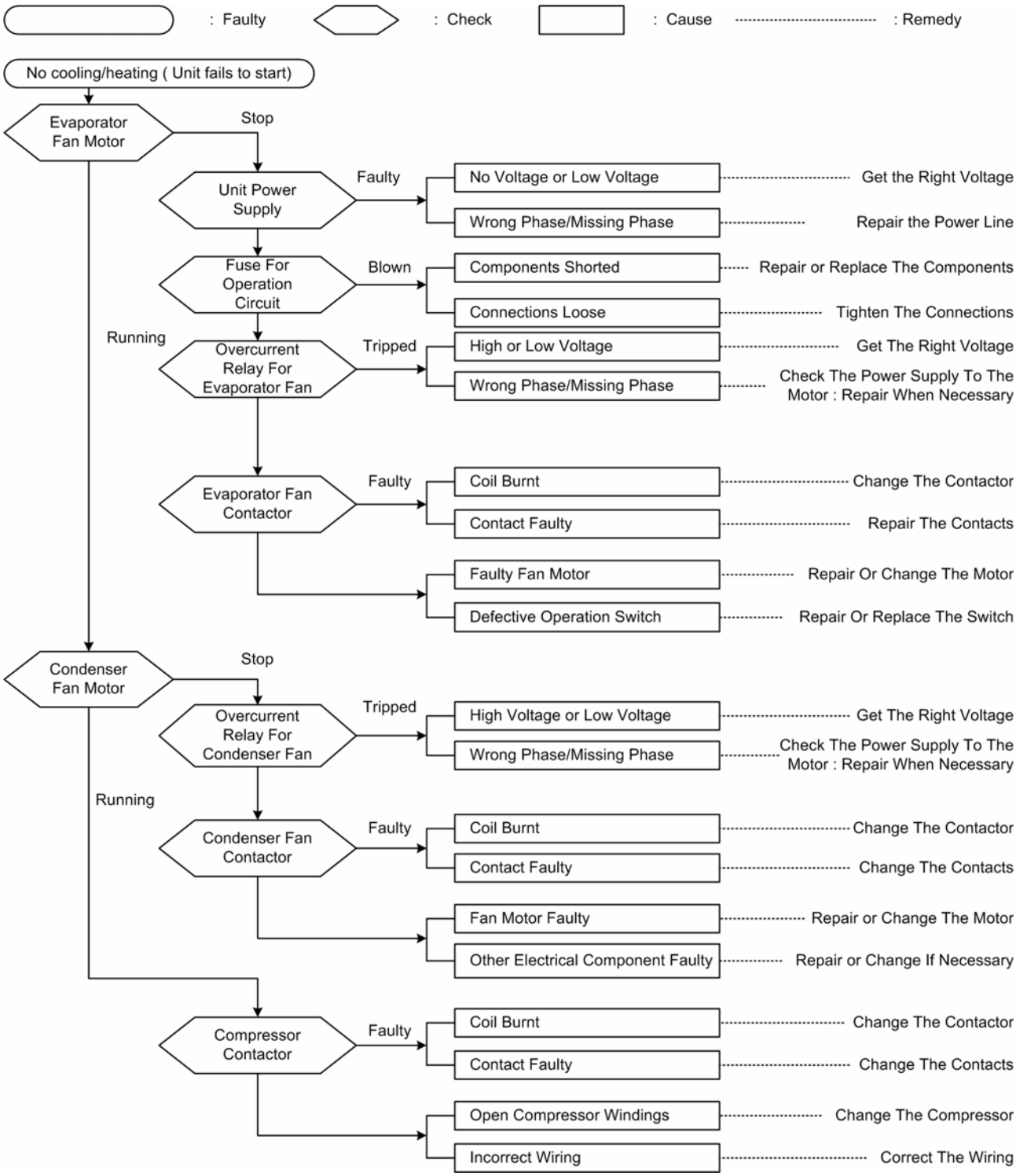
By means of pressure reading:

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

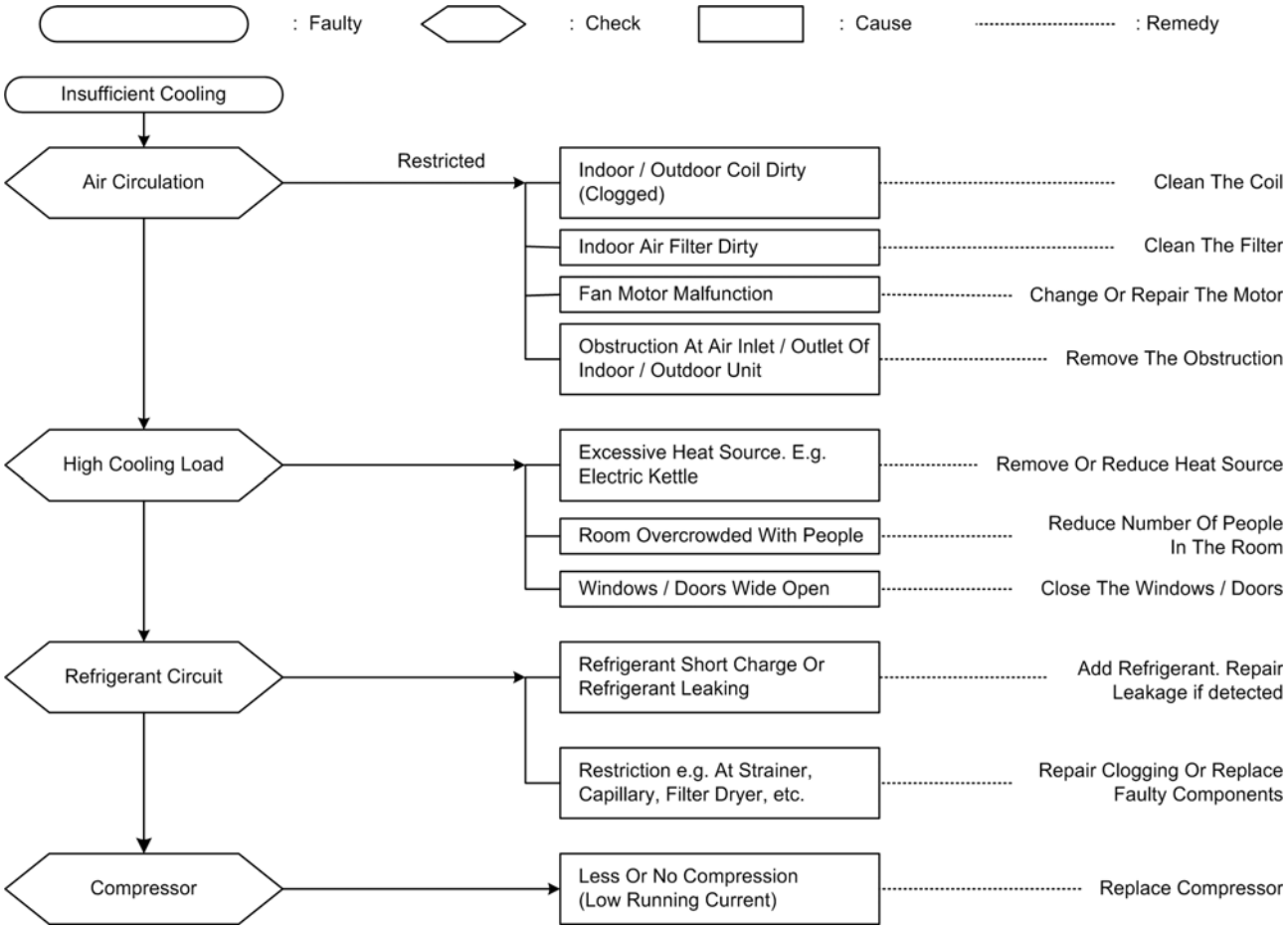


The most common causes of air conditioner failure to “start” are :

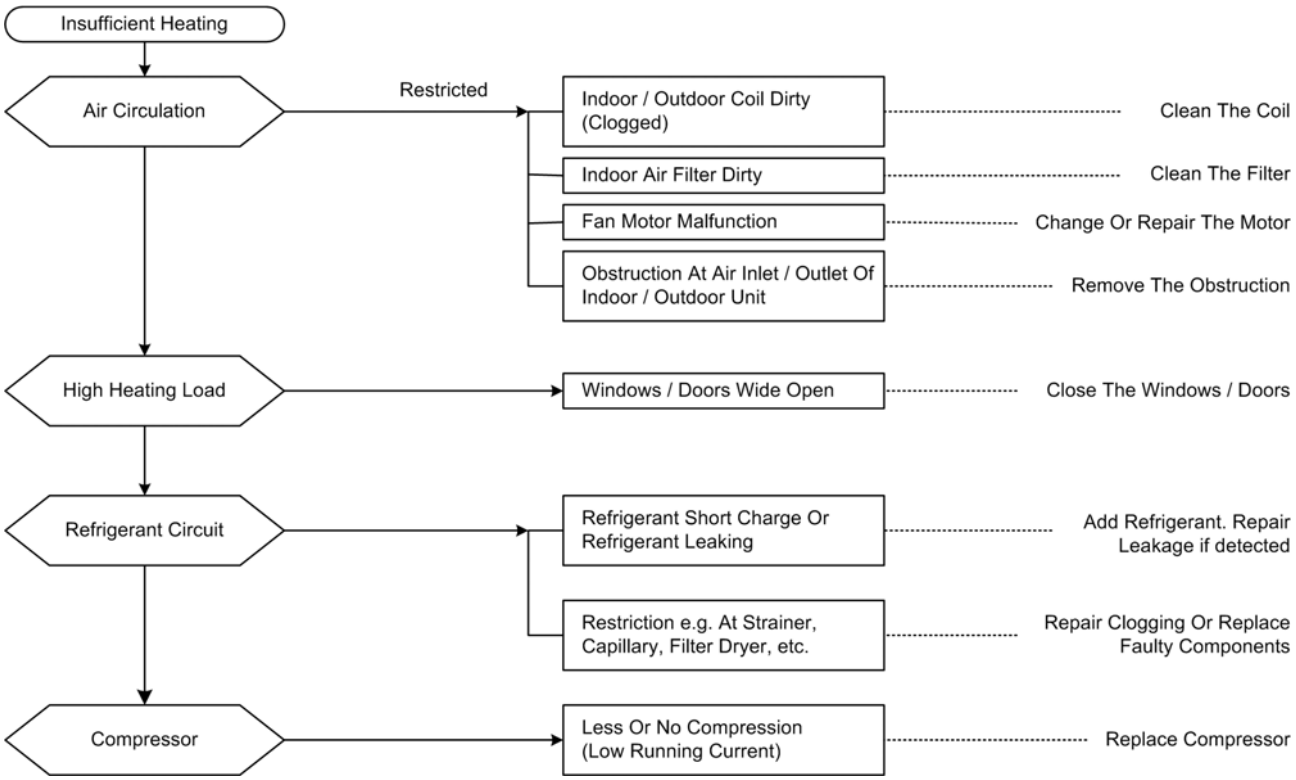
a) Voltage not within ±10% of rated voltage.
b) Power supply interrupted.
c) Improper control settings.
d) Air conditioner is disconnected from main power source.
e) Fuse blown or circuit breaker off.

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)

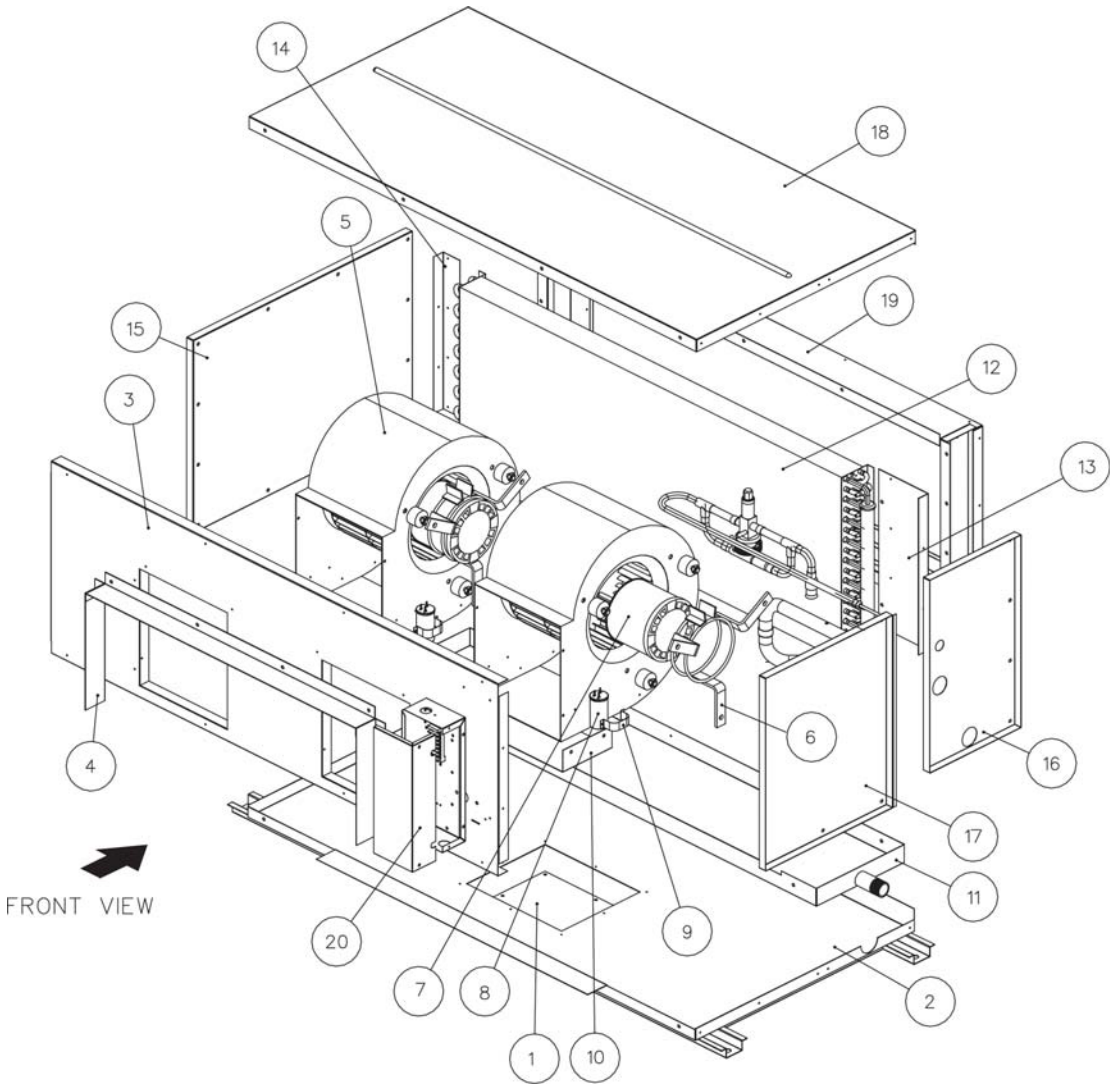


Satisfactory operation with temperature difference of air intake & discharge of indoor unit 14°C to 20°C. *
(* value is for reference only)

Exploded View And Parts List

INDOOR MODELS

MODEL : MDB075ER



NO.	DESCRIPTION
1	PANEL, BASE COVER
2	ASSY, BASE PAN
3	ASSY, PANEL FRONT
4	ASSY, BLOWER FLANGE
5	BLOWER
6	FAN MOTOR BRACKET
7	MOTOR
8	CAPACITOR
9	CLAMP, CAPACITOR
10	SUPT, BLOWER BRACKET
11	ASSY, DRAIN PAN
12	ASSY, COIL
13	COVER, COIL SIDE R

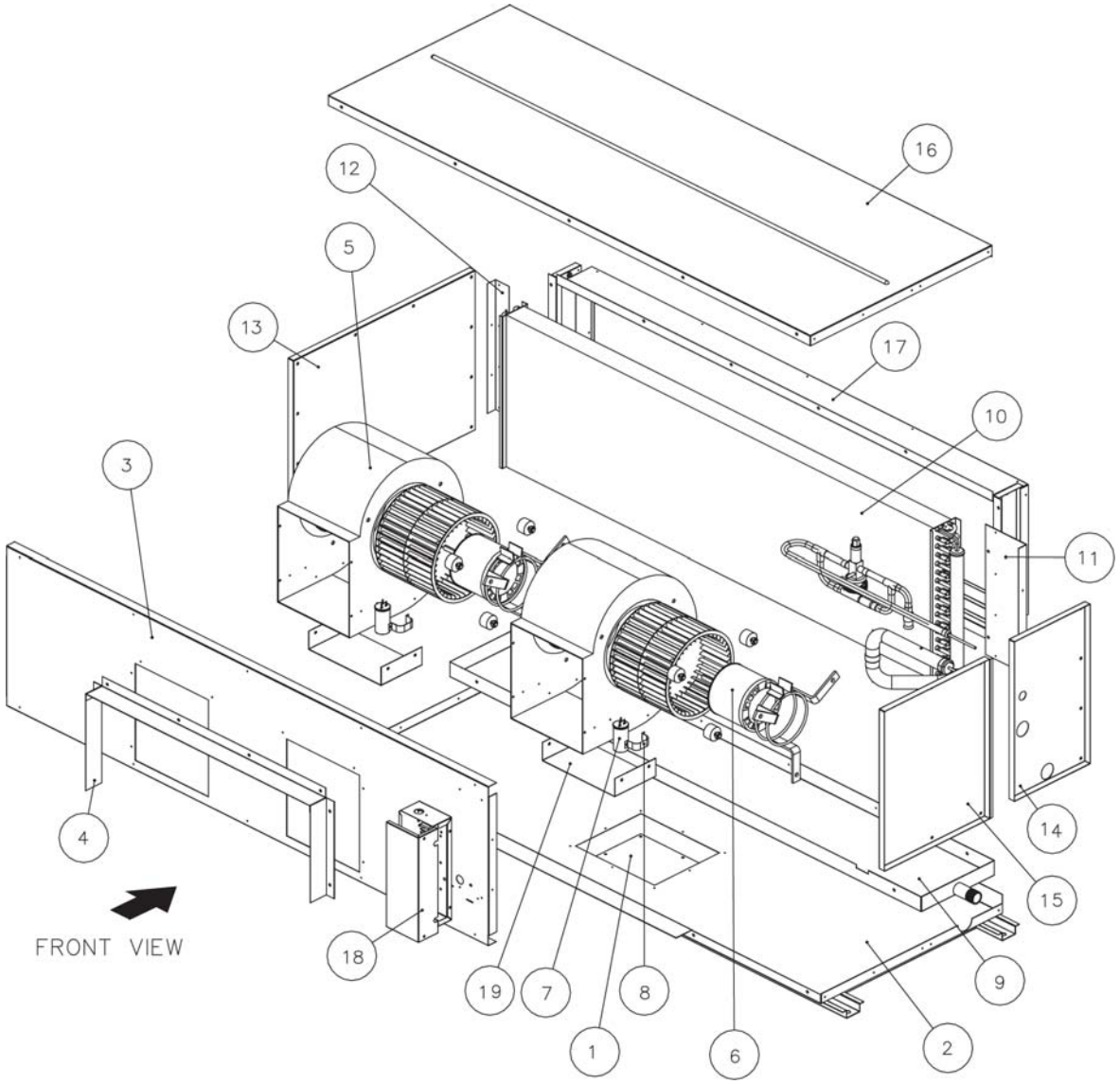
NO.	DESCRIPTION
14	COVER, COIL SIDE L
15	PANEL, SIDE L
16	PANEL, SMALL SIDE R
17	PANEL, SIDE BIG R
18	PANEL, TOP
19	ASSY, FILTER SUPT. T/B SUPT, FILTER L/R COVER, FILTER
20	ASSY, TER. BOX

Parts Not In Diagram

	AIR FILTER, SARANET
	HANDSET, WIRED SLM3

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

MODEL : MDB100ER



NO.	DESCRIPTION
1	PANEL, BASE COVER
2	ASSY, BASE PAN
3	ASSY, PANEL FRONT
4	ASSY, BLOWER FLANGE
5	BLOWER
6	MOTOR
7	CAPACITOR
8	CLAMP, CAPACITOR
9	ASSY, DRAIN PAN
10	ASSY, COIL
11	COVER, COIL SIDE R
12	COVER, COIL SIDE L

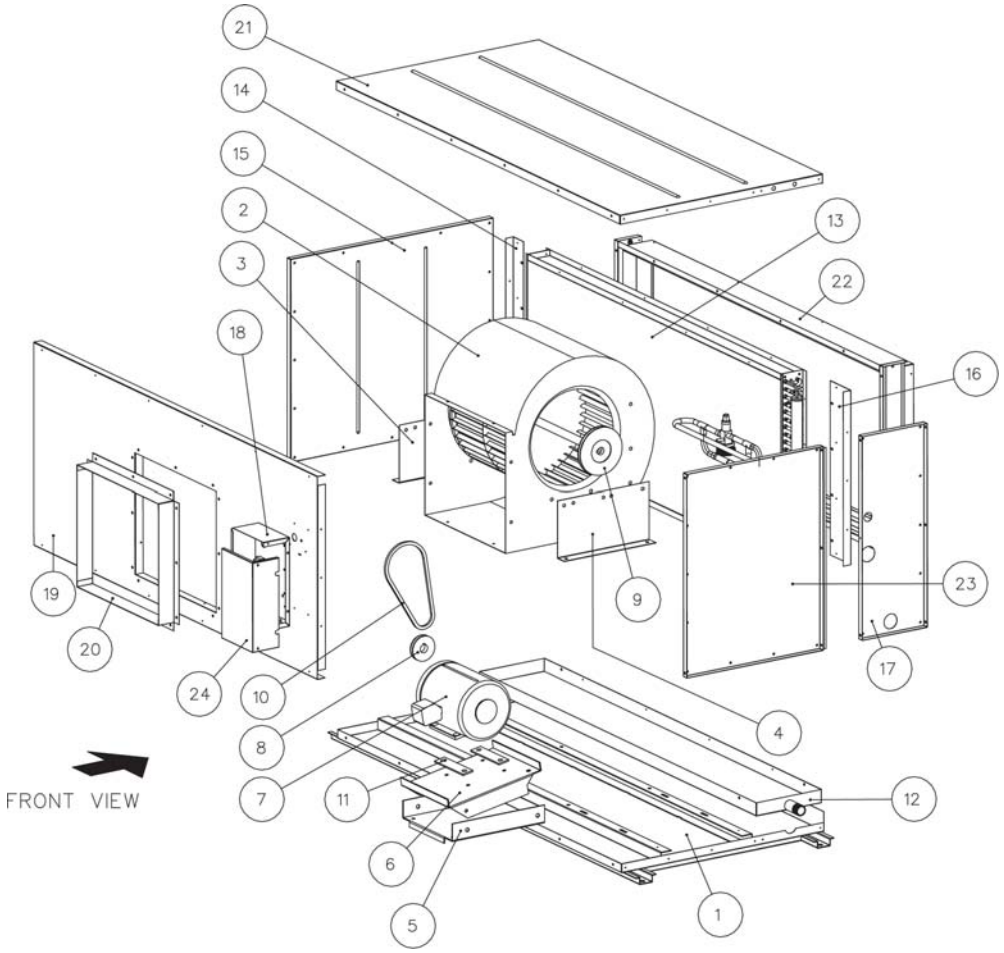
NO.	DESCRIPTION
13	PANEL, SIDE L
14	PANEL, SMALL SIDE R
15	PANEL, SIDE BIG R
16	PANEL, TOP
17	FILTER SUPT. T/B SUPPORT, FILTER L/R COVER, FILTER
18	ASSY, TER. BOX

Parts Not In Diagram

	AIR FILTER, SARANET
	HANDSET, WIRED SLM3

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

MODEL : MDB125 / 150ER



NO.	DESCRIPTION
1	ASSY, BASE PAN **MDB125ER** **MDB150ER**
2	BLOWER
3	SUPT, BLOWER BRACKET L
4	SUPT, BLOWER BRACKET R
5	BASE, MOTOR LOWER
6	BASE, MOTOR UPPER
7	MOTOR **MDB125ER** **MDB150ER**
8	PULLEY, 1 SPZ 85/1210
9	PULLEY, 1 SPZ 160/1610
10	BELT
11	SHEET, RUBBER **MDB125ER** **MDB150ER**
12	ASSY, DRAIN PAN **MDB125ER** **MDB150ER**
13	ASSY, COIL **MDB125ER** **MDB150ER**
14	COVER, COIL SIDE L

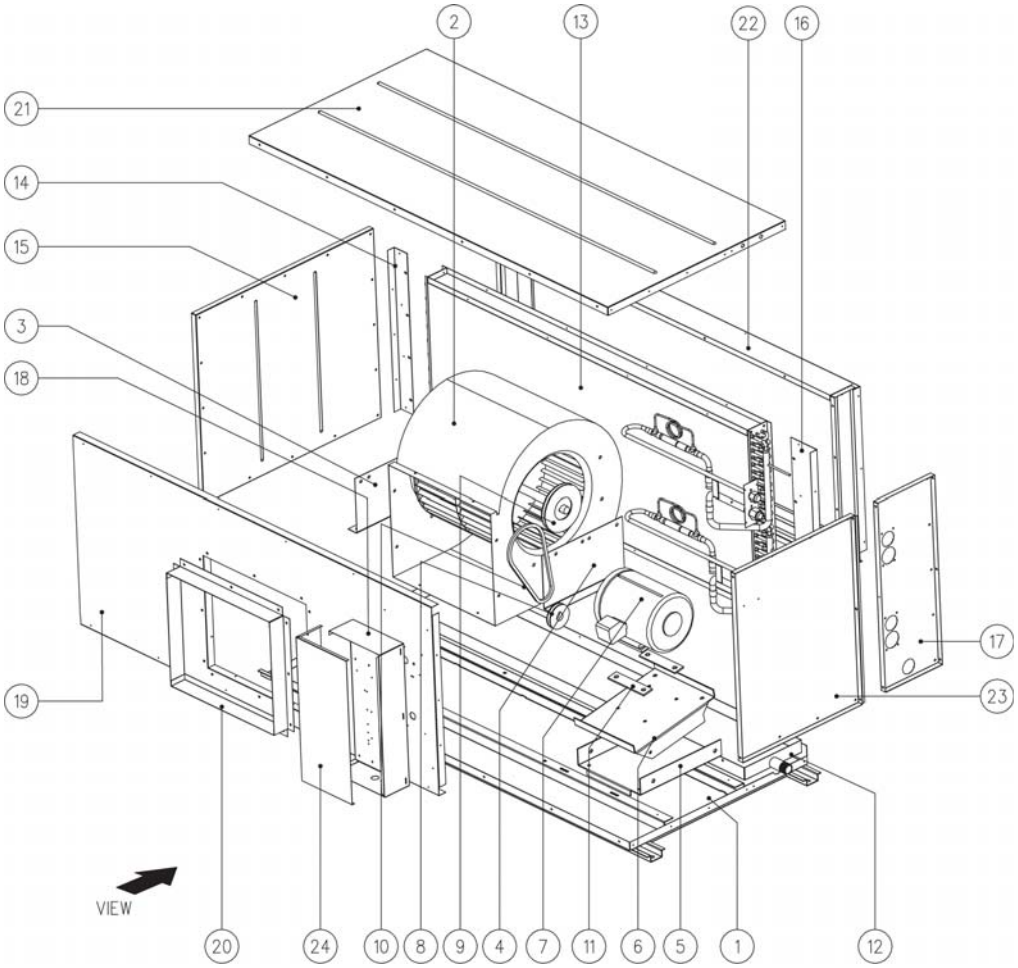
NO.	DESCRIPTION
15	PANEL, SIDE L
16	COVER, COIL SIDE R
17	PANEL, SMALL SIDE R **MDB125ER** **MDB150ER**
18	ASSY,TER. BOX
19	ASSY, PANEL FRONT **MDB125ER** **MDB150ER**
20	ASSY, BLOWER FLANGE
21	PANEL, TOP **MDB125ER** **MDB150ER**
22	SUPPORT, FILTER L/R SUPPORT, FILTER T/B **MDB125ER** **MDB150ER**
23	PANEL, SIDE BIG R
24	COVER,TER. BOARD

Parts Not In Diagram

	CONT, AC230V 4.6A
	FILTER, AAF R15 **MDB125ER** **MDB150ER**

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

MODEL : MDB125 /150 ER2



NO.	DESCRIPTION
1	ASSY, BASE PAN **MDB125ER2** **MDB150ER2**
2	BLOWER
3	SUPT, BLOWER BRACKET L
4	SUPT, BLOWER BRACKET R
5	BASE, MOTOR LOWER
6	BASE, MOTOR UPPER
7	MOTOR
8	PULLEY, 1 SPZ 85/1210
9	PULLEY **MDB150ER2, 1 SPZ 160/1610**
10	BELT
11	SHEET, RUBBER
12	ASSY, DRAIN PAN **MDB125ER2** **MDB150ER2**
13	ASSY, COIL **MDB125ER2** **MDB150ER2**
14	COVER, COIL SIDE L
15	PANEL, SIDE L
16	COVER, COIL SIDE R

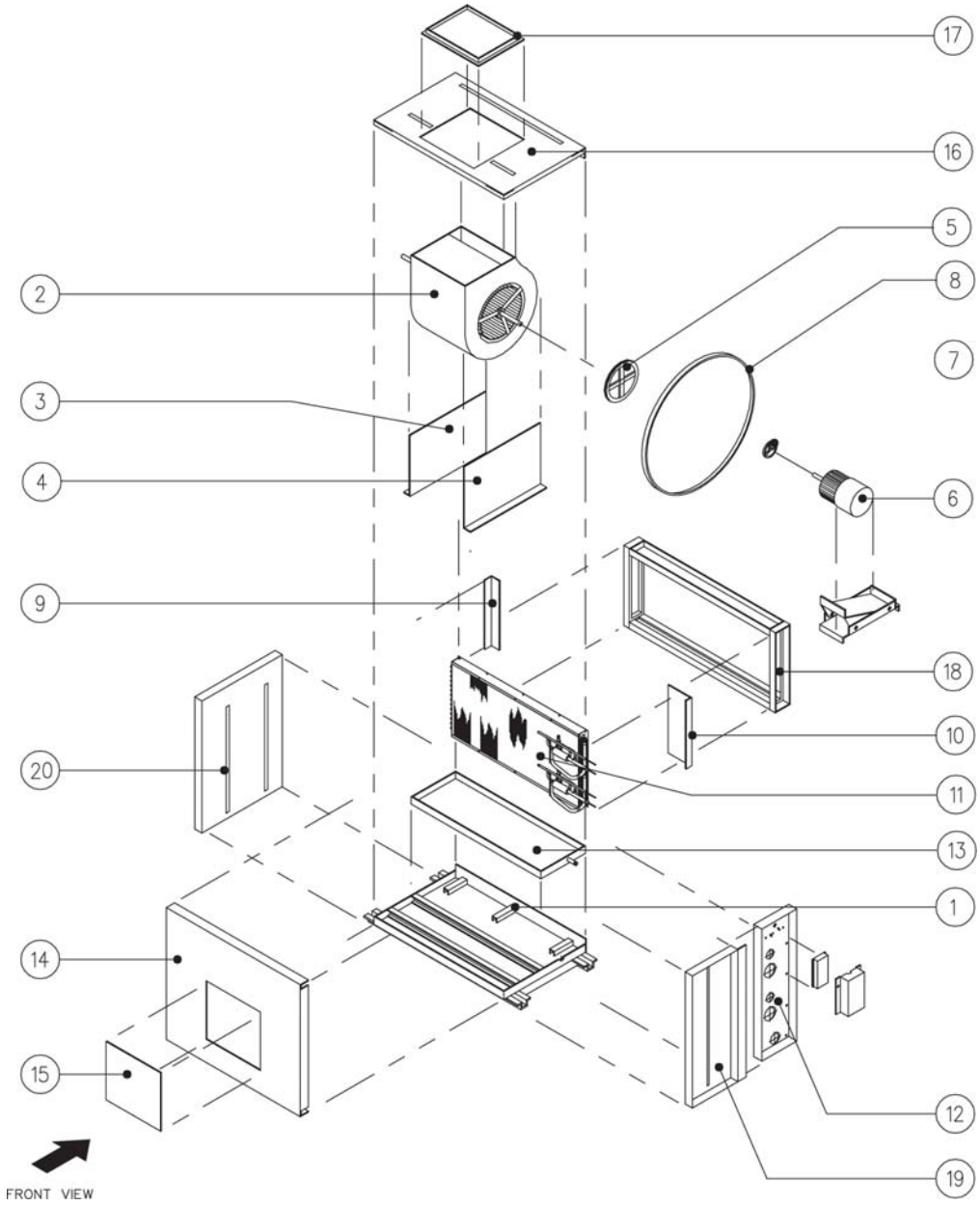
NO.	DESCRIPTION
17	PANEL, SMALL SIDE R **MDB125ER2** **MDB150ER2**
18	ASSY, TER. BOX
19	ASSY, PANEL FRONT **MDB125ER2** **MDB150ER2**
20	ASSY, BLOWER FLANGE
21	PANEL, TOP **MDB125ER2** **MDB150ER2**
22	SUPT, FILTER L/R SUPT, FILTER T/B **MDB125ER2** **MDB150ER2**
23	PANEL, SIDE BIG R
24	COVER, TER. BOX

Parts Not In Diagram

	CONT, AC230V 4.6A
	FILTER, AAF R15 **MDB125ER** **MDB150ER**

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

MODEL : MDB200ER2



NO.	DESCRIPTION
1	ASSY, BASE PAN
2	BLOWER
3	SUPT, BLOWER L
4	SUPT, BLOWER R
5	PULLEY, 2 SPZ 140/1610
6	MOTOR
7	PULLEY, 2 SPZ 80/1210
8	BELT
9	COVER, COIL SIDE L
10	COVER, COIL SIDE R
11	ASSY. COIL
12	PANEL, SMALL SIDE R

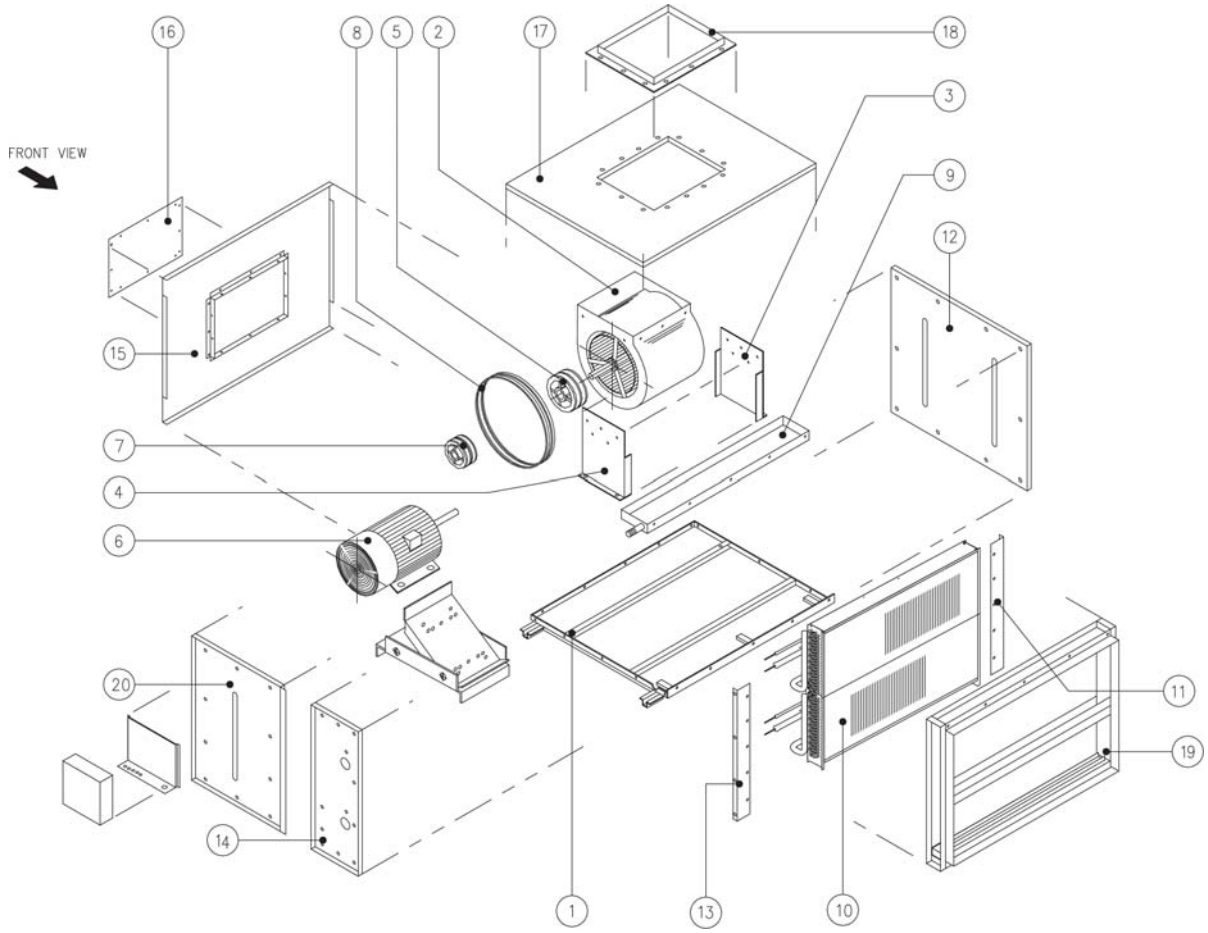
NO.	DESCRIPTION
13	ASSY, DRAIN PAN
14	ASSY, PANEL FRONT
15	COVER, BLOWER
16	ASSY, PANEL TOP
17	FLANGE, BLOWER T/B
	FLANGE, BLOWER L/R
18	ASSY, FILTER SUPT. T/B
19	PANEL, SIDE BIG R
20	PANEL, SIDE L

Parts Not In Diagram

	FILTER, AAF R29
	CONT, AC230V 50/60 6-9A

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

MODEL : MDB250ER2



NO.	DESCRIPTION
1	ASSY, BASE PAN
2	BLOWER
3	SUPT, BLOWER L
4	SUPT, BLOWER L
5	PULLEY, 2 SPZ 180/2012
6	MOTOR
7	PULLEY, 2 SPZ 90/1610
8	BELT
9	ASSY, DRAIN PAN
10	ASSY, COIL
11	COVER, COIL SIDE L
12	PANEL, SIDE L
13	COVER, COIL SIDE R

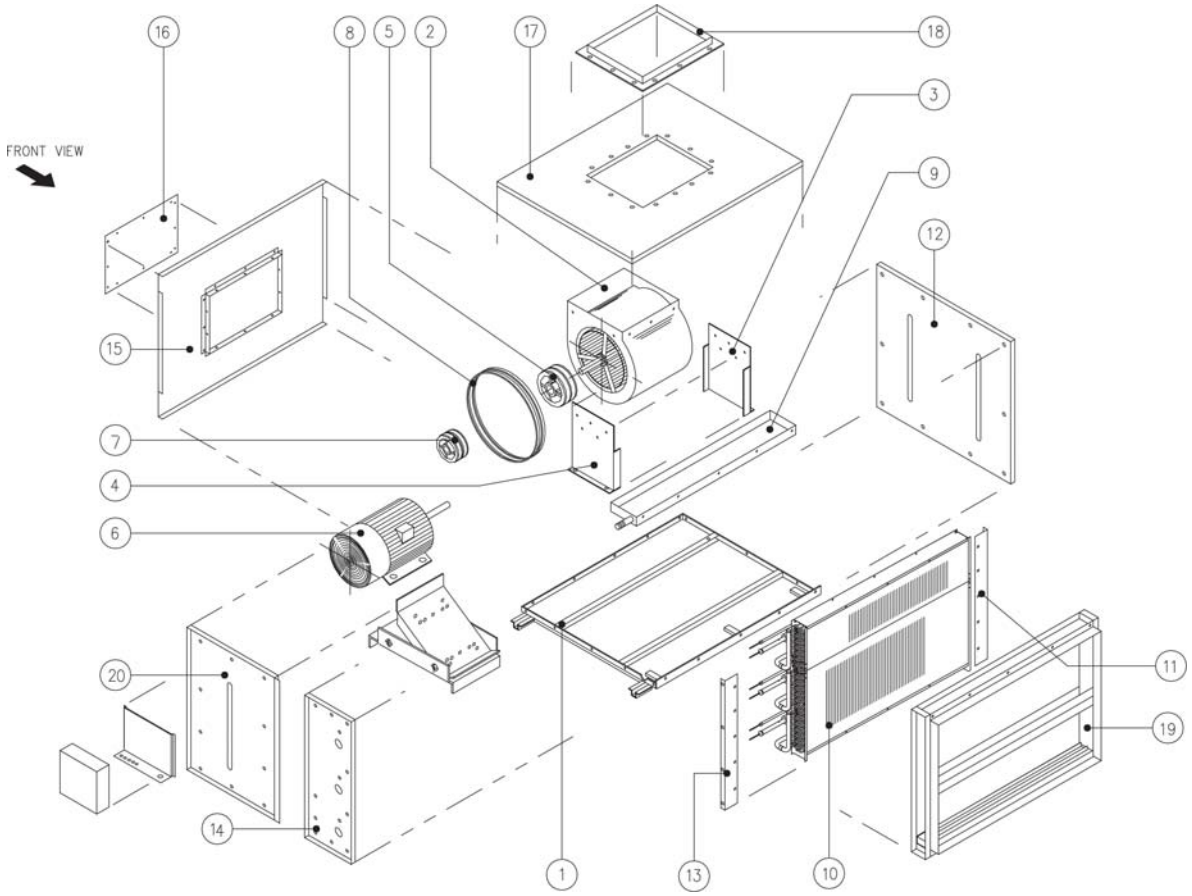
NO.	DESCRIPTION
14	PANEL, SMALL SIDE R
15	ASSY, PANEL FRONT
16	COVER, BLOWER
17	ASSY, PANEL TOP
18	FLANGE, BLOWER T/B FLANGE, BLOWER L/R
19	ASSY, FILTER SUPT. T/B ASSY, FILTER R/CENTRE
20	PANEL, SIDE BIG R

Parts Not In Diagram

	FILTER, AAF R29
	CONT, AC230V 50/60 11A

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

MODEL : MDB300ER3



NO.	DESCRIPTION
1	ASSY, BASE PAN
2	BLOWER
3	SUPT, BLOWER L
4	SUPT, BLOWER L
5	PULLEY, 2 SPZ 180/2012
6	MOTOR
7	PULLEY, 2 SPZ 95/1610
8	BELT
9	ASSY, DRAIN PAN
10	ASSY, COIL
11	COVER,COIL SIDE L
12	PANEL, SIDE L
13	COVER, COIL SIDE R

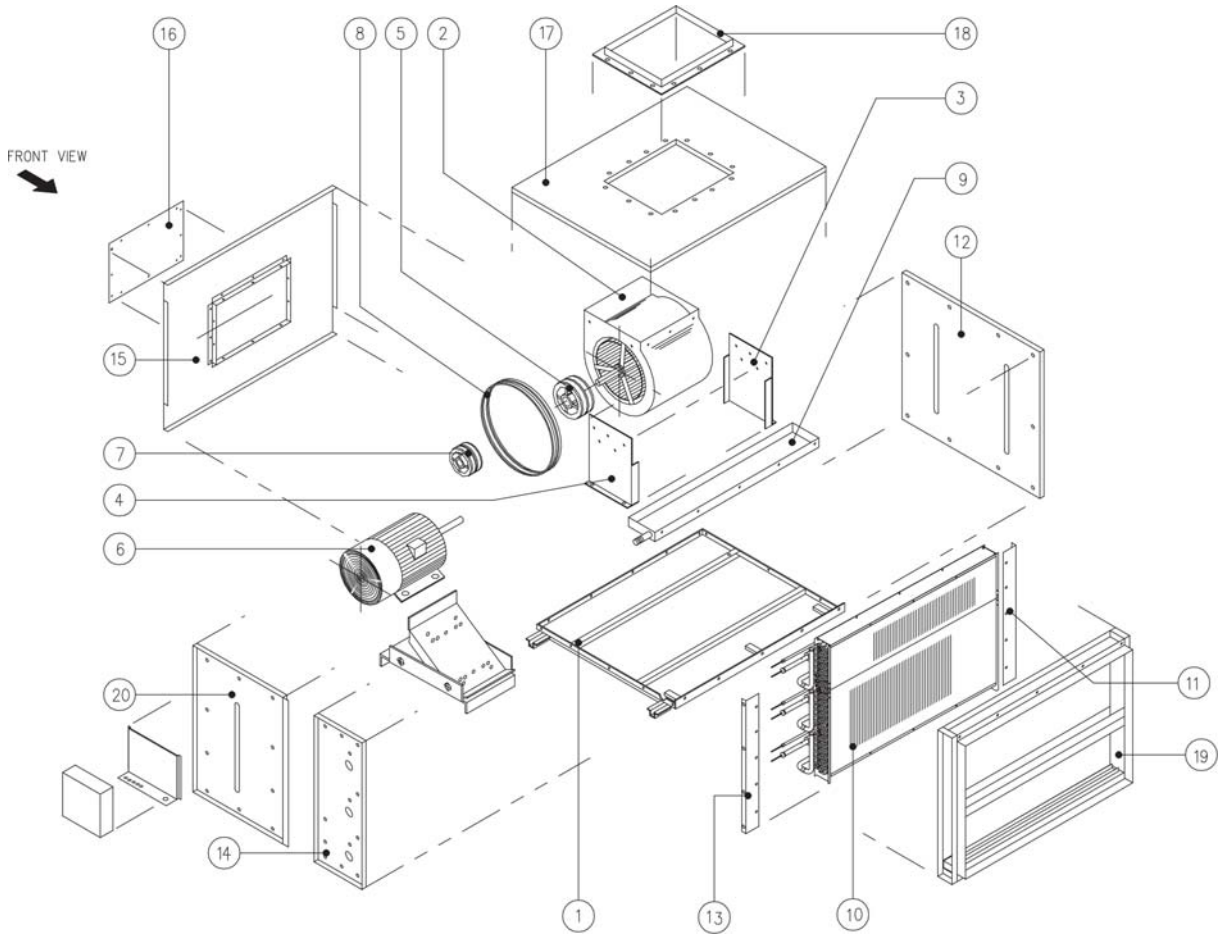
NO.	DESCRIPTION
14	PANEL, SMALL SIDE R
15	ASSY, PANEL FRONT
16	COVER, BLOWER
17	ASSY, PANEL TOP
18	FLANGE, BLOWER T/B FLANGE, BLOWER L/R
19	ASSY, FILTER SUPT. T/B ASSY, FILTER R/CENTRE
20	PANEL, SIDE BIG R

Parts Not In Diagram

	FILTER, AAF R29
	CONT, AC230V 50/60 11A

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

MODEL : MDB350ER3



NO.	DESCRIPTION
1	ASSY, BASE PAN
2	BLOWER
3	SUPT, BLOWER L
4	SUPT, BLOWER R
5	PULLEY, 2 SPZ 250/2012
6	MOTOR
7	PULLEY, 2 SPZ 125/1610
8	BELT
9	ASSY, DRAIN PAN
10	ASSY, COIL
11	COVER,COIL SIDE L
12	PANEL, SIDE L
13	COVER, COIL SIDE R

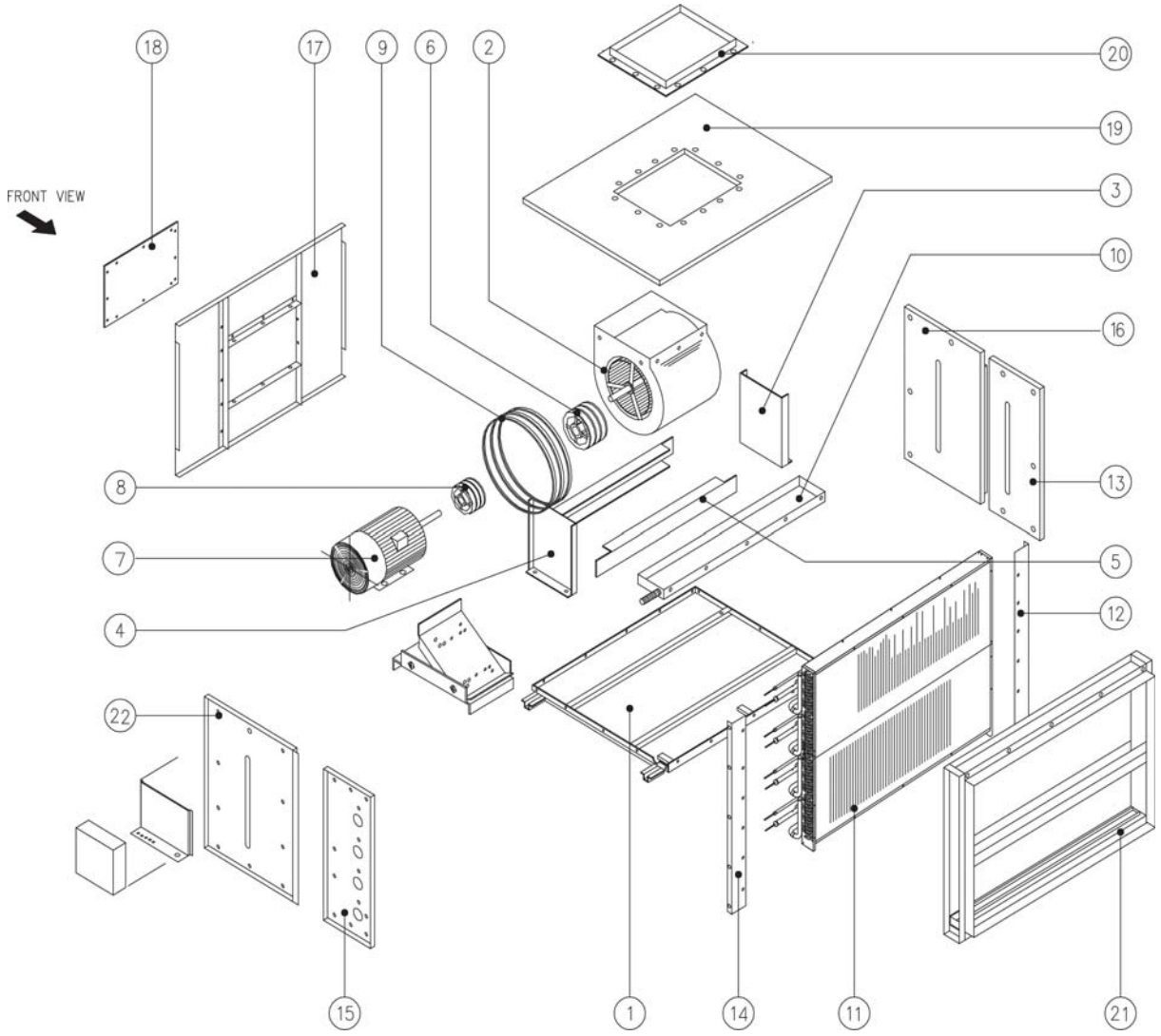
NO.	DESCRIPTION
14	PANEL, SMALL SIDE R
15	ASSY, PANEL FRONT
16	COVER, BLOWER
17	ASSY, PANEL TOP
18	FLANGE, BLOWER T/B FLANGE, BLOWER L/R
19	ASSY, FILTER SUPT T/B ASSY, FILTER R/CENTRE
20	PANEL, SIDE BIG R

Parts Not In Diagram

	FILTER, AAF R29
	CONT, AC230V 50/60 15.0A

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

MODEL : MDB400ER4



NO.	DESCRIPTION
1	ASSY, BASE PAN
2	BLOWER
3	SUPT, BLOWER L
4	SUPT, BLOWER R
5	SUPT, BLOWER F/B
6	PULLEY, 2 SPA 250/2517
7	MOTOR
8	PULLEY, 2 SPA 106/1610
9	BELT
10	ASSY, DRAIN PAN
11	ASSY, COIL
12	COVER, COIL SIDE L
13	PANEL, SIDE BACK L
14	COVER, COIL SIDE R
15	PANEL, SIDE BACK R

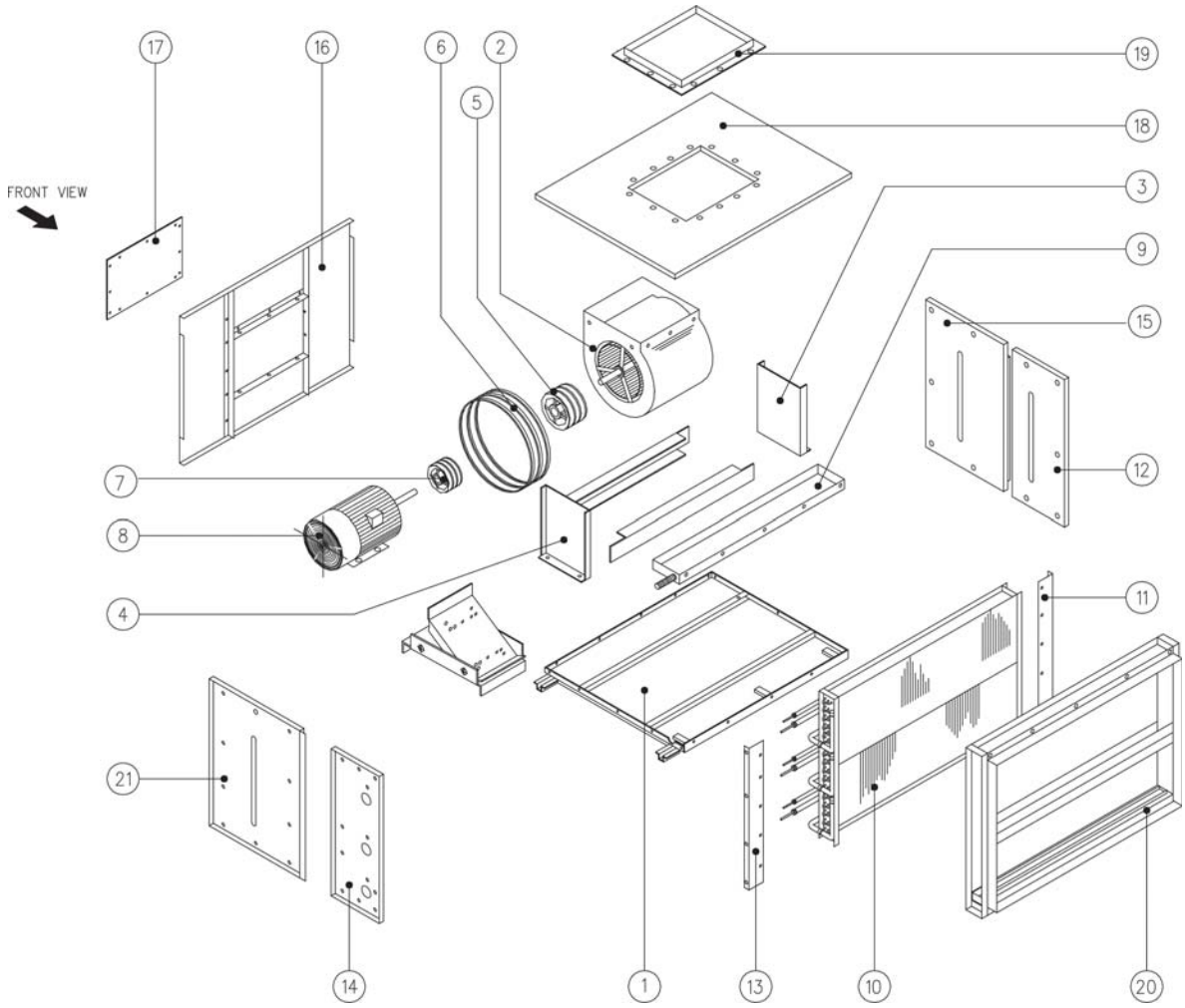
NO.	DESCRIPTION
16	PANEL, SIDE FRONT L/R
17	ASSY, PANEL FRONT
18	COVER, BLOWER
19	ASSY, PANEL TOP
20	FLANGE, BLOWER T/B FLANGE, BLOWER L/R
21	COVER, FILTER SUPT, FILTER L/R FLANGE, FILTER L/R RAIL, FILTER
22	PANEL, SIDE F

Parts Not In Diagram

	FILTER, AAF R29
	CONT, AC230V 50/60 15.0A

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

MODEL : MDB450ER3



NO.	DESCRIPTION
1	ASSY, BASE PAN
2	BLOWER
3	SUPT, BLOWER L
4	SUPT, BLOWER R
5	PULLEY, 2 SPA 250/2517
6	BELT
7	PULLEY, 2 SPA 112/1610
8	MOTOR
9	ASSY, DRAIN PAN
10	ASSY, COIL
11	COVER, COIL SIDE L
12	PANEL, SIDE BACK L
13	COVER, COIL SIDE R
14	ASSY, PANEL SIDE BACK R
15	PANEL, SIDE FRONT L/R

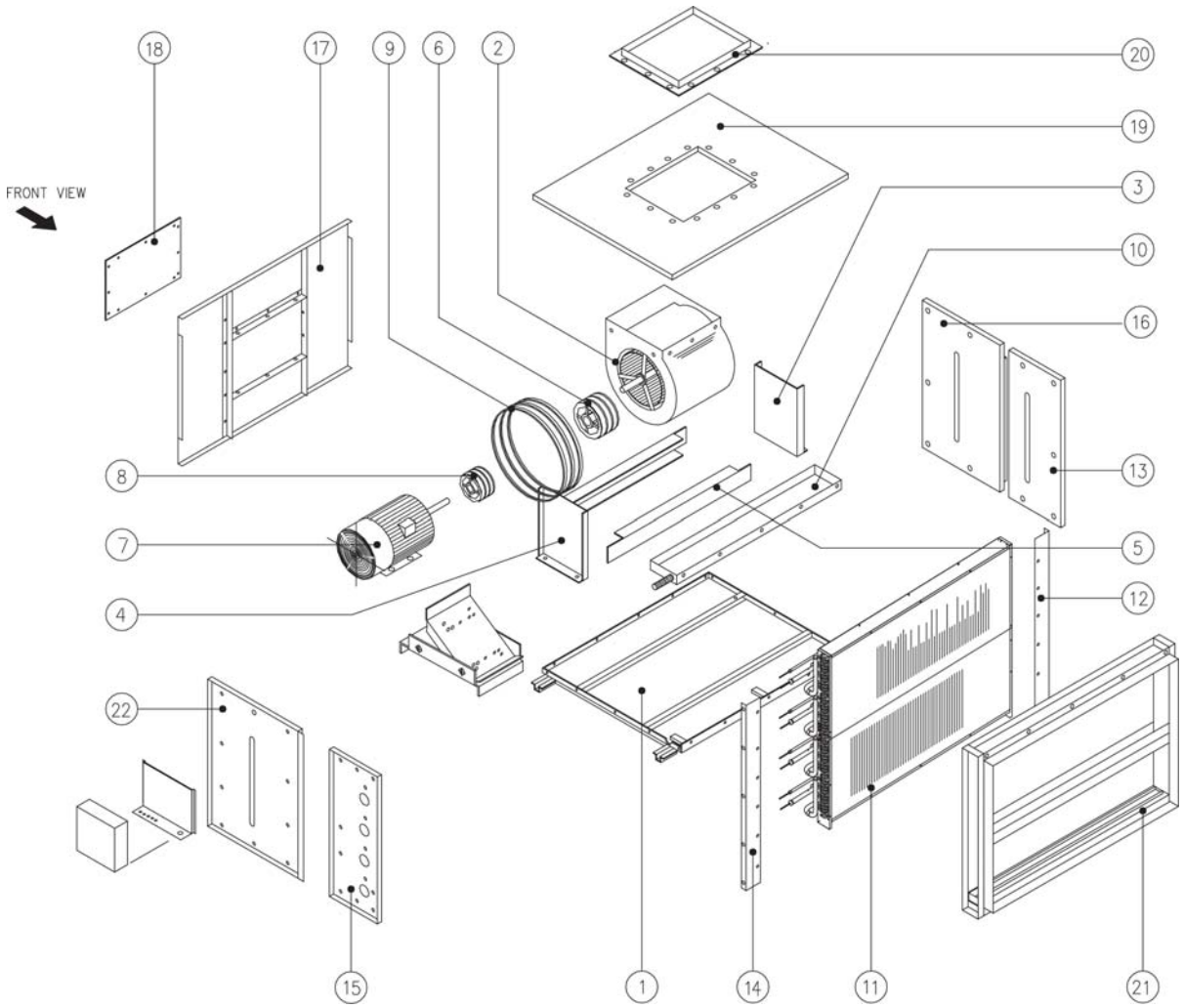
NO.	DESCRIPTION
16	ASSY, PANEL FRONT
17	COVER, BLOWER
18	ASSY, PANEL TOP
19	FLANGE, BLOWER T/B
	FLANGE, BLOWER L/R
20	COVER, FILTER
	SUPT, FILTER L/R
	FLANGE, FILTER L/R
	SUPT, FILTER T/B
	RAIL, FILTER
21	PANEL, SIDE FRONT L/R

Parts Not In Diagram

	FILTER, AAF R29
	CONT, AC230V 50/60 22.0A

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

MODEL : MDB500ER4



NO.	DESCRIPTION
1	ASSY, BASE PAN
2	BLOWER
3	SUPT, BLOWER L
4	SUPT, BLOWER R
5	SUPT, BLOWER F/B
6	PULLEY, 2 SPA 315/2517
7	MOTOR
8	PULLEY, 2 SPA 150/2012
9	BELT
10	ASSY, DRAIN PAN
11	ASSY, COIL
12	COVER,COIL SIDE L
13	PANEL, SIDE BACK L
14	COVER, COIL SIDE R

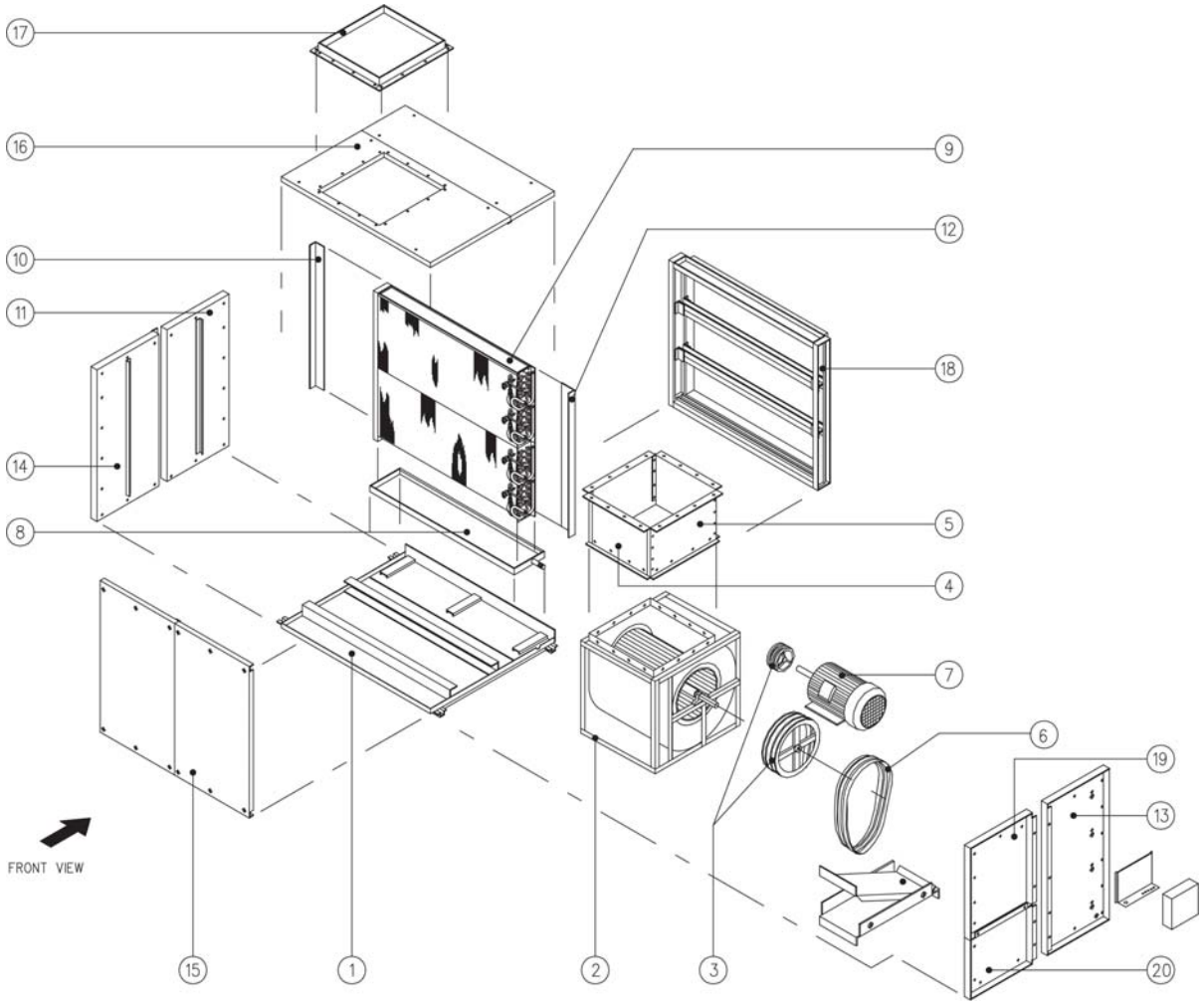
NO.	DESCRIPTION
15	PANEL, SIDE BACK R
16	PANEL, SIDE FRONT L/R
17	ASSY, PANEL FRONT
18	COVER, BLOWER
19	ASSY, PANEL TOP
20	FLANGE, BLOWER T/B
	FLANGE, BLOWER L/R
21	SUPT, FILTER L/R
	ASSY, FILTER SUPT. T/B
	RAIL, FILTER
22	PANEL, SIDE FRONT L/R

Parts not In Diagram

	FILTER, AAF R29
	CONT, AC230 50/60 30.0A

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

MODEL : MDB600ER4



NO.	DESCRIPTION
1	ASSY, BASE PAN
2	BLOWER
3	PULLEY 3 SPA 400/3020 3 SPA 132/2012
4	PANEL, BLOWER DUCT F/B
5	PANEL, BLOWER DUCT L/R
6	BELT
7	MOTOR
8	ASSY, DRAIN PAN
9	ASSY, COIL
10	STRUC, COIL SIDE COVER L
11	ASSY, PANEL SIDE BACK L
12	STRUC, COIL SIDE COVER R

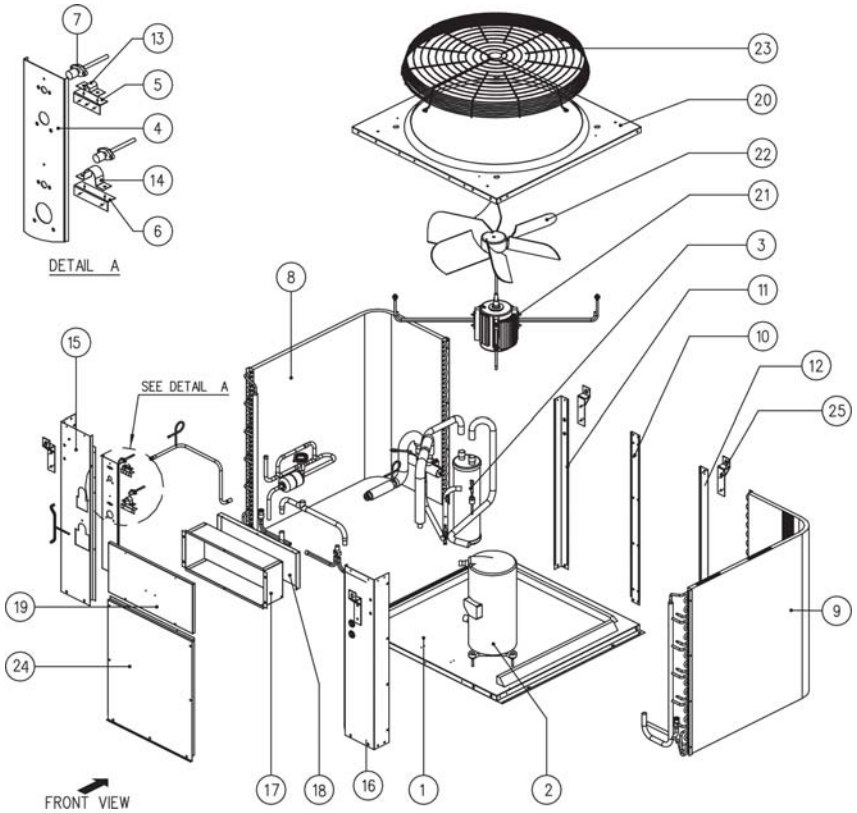
NO.	DESCRIPTION
13	PANEL, SIDE BACK R
14	PANEL, SIDE FRONT L
15	ASSY, PANEL FRONT L
16	ASSY, PANEL TOP BIG PANEL, TOP SMALL
17	FLANGE, BLOWER F/BACK FLANGE, BLOWER L/R
18	ASSY, FILTER SUPT. T/B ASSY, FILTER RAIL
19	PANEL, SIDE FRONT T/R
20	PANEL, SIDE FRONT B/R

Parts Not In Diagram

	FILTER, AAF R29
	CONT, AC230 50/60 30.0A

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

MODEL : MMC075 / 100 ER

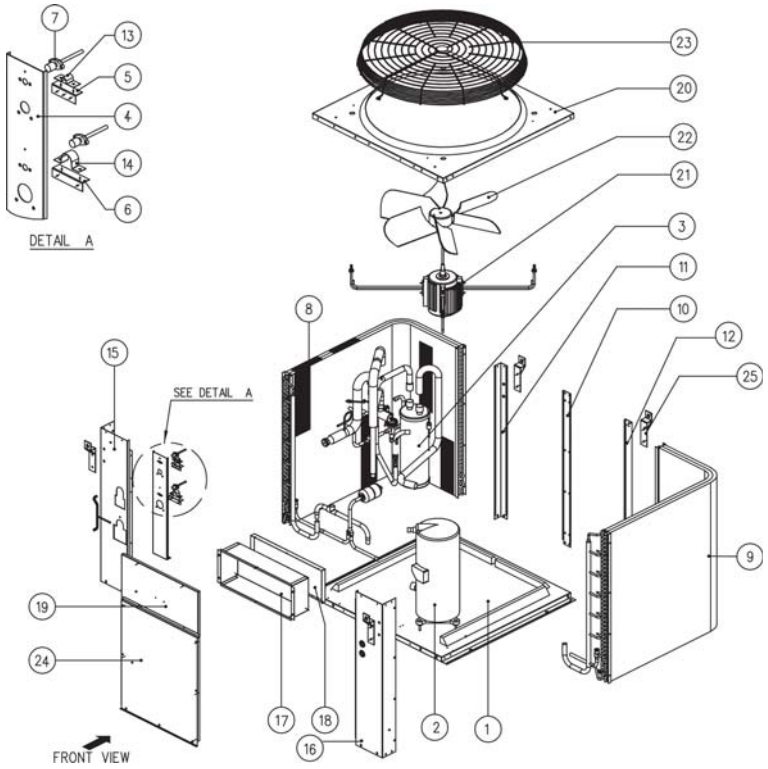


NO.	DESCRIPTION
1	ASSY, BASE PAN
2	COMPRESSOR **MMC 075ER** **M4MC 75ER** **MMC 100ER** **M4MC 100ER**
3	ACCUMULATOR **MMC / M4MC 075ER** **MMC / M4MC 100ER**
4	STRUC, TUBE SUPT. **MMC / M4MC 075ER** **MMC / M4MC 100ER**
5	SUPT, LIQUID TUBE **MMC / M4MC 075ER** **MMC / M4MC 100ER**
6	SUPT, GAS TUBE **MMC / M4MC 075ER** **MMC / M4MC 100ER**
7	ASSY, ACCESS VALVE **MMC 075/100ER** **M4MC 075/100ER**
8	ASSY, COIL L **MMC / M4MC 075ER** **MMC / M4MC 100ER**
9	ASSY, COIL R **MMC / M4MC 075ER** **MMC / M4MC 100ER**
10	STRUC, COIL **MMC125ER** **MMC150ER**

NO.	DESCRIPTION
11	STRUC, BACK L
12	STRUC, BACK R
13	CLAMP, LIQUID TUBE **MMC / M4MC 075ER** **MMC / M4MC 100ER**
14	CLAMP, GAS TUBE **MMC / M4MC 075ER** **MMC / M4MC 100ER**
15	STRUC, FRONT L
16	STRUC, FRONT R
17	TER. BOARD **MMC / M4MC 075ER** **MMC / M4MC 100ER**
18	COVER, TER. BOARD BACK
19	PANEL, SERVICE TOP
20	PANEL, ORIFICE
21	MOTOR
22	FAN PROPELLER
23	FAN GUARD
24	PANEL, SERVICE BOTTOM
25	ASSY, S. HOISTING BRACKET
Parts Not In Diagram	
	LOW PRESS SWITCH
	HIGH PRESS SWITCH **MMC 075/100ER** **M4MC 075/100ER**
	PHASE PROTECTOR PP1.03

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

MODEL : MMC125 / 150 ER



NO.	DESCRIPTION
1	ASSY, BASE PAN **MMC / M4MC 125ER** **MMC / M4MC 150ER**
2	COMPRESSOR **MMC 125ER** **M4MC 125ER** **MMC150ER** **M4MC 150ER**
3	ACCUMULATOR **MMC / M4MC 125ER** **MMC / M4MC 150ER**
4	STRUC, TUBE SUPT. **MMC / M4MC 125ER** **MMC / M4MC 150ER**
5	SUPT, LIQUID TUBE
6	SUPT, GAS TUBE
7	ASSY, ACCESS VALVE **MMC 125/150ER** **M4MC 125/150ER**
8	ASSY, COIL L **MMC / M4MC 125ER** **MMC150ER**
9	ASSY, COIL R **MMC / M4MC 125ER** **MMC / M4MC 150ER**
10	STRUC, COIL **MMC / M4MC 125ER** **MMC / M4MC 150ER**
11	STRUC, BACK L **MMC / M4MC 125ER** **MMC / M4MC 150ER**

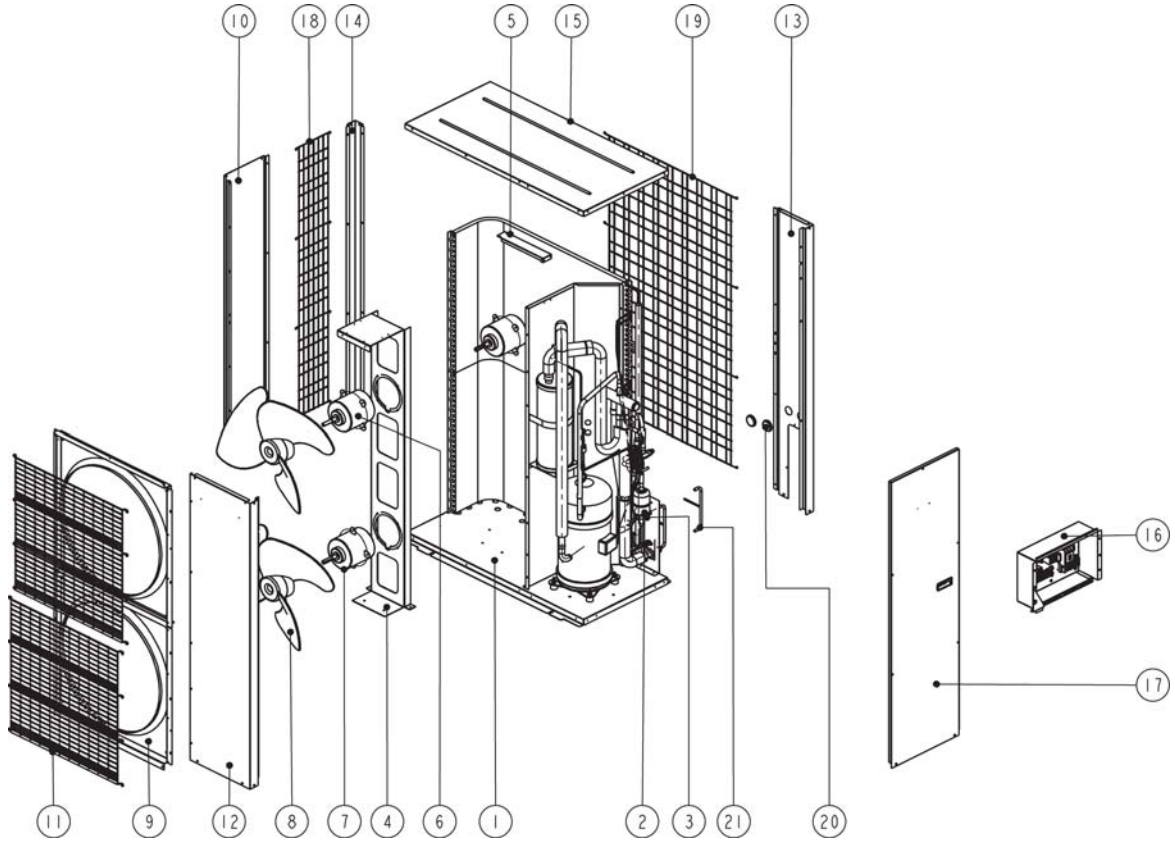
NO.	DESCRIPTION
12	STRUC, BACK R **MMC / M4MC 125ER** **MMC / M4MC 150ER**
13	CLAMP, LIQUID TUBE
14	CLAMP, GAS TUBE
15	STRUC, FRONT L **MMC / M4MC 125ER** **MMC / M4MC 150ER**
16	STRUC, FRONT R **MMC / M4MC 125ER** **MMC / M4MC 150ER**
17	TER. BOARD **MMC / M4MC 125ER** **MMC / M4MC 150ER**
18	COVER, TER. BOARD BACK
19	PANEL, SERVICE T **MMC / M4MC 125ER** **MMC / M4MC 150ER**
20	PANEL, ORIFICE
21	MOTOR
22	FAN PROPELLER
23	FAN GUARD
24	PANEL, SERVICE B **MMC / M4MC 125ER** **MMC / M4MC150ER**
25	ASSY, S. HOISTING BRACKET

Parts Not In Diagram

	LOW PRESS SWITCH
	HIGH PRESS SWITCH **MMC 125/150ER** **M4MC 125/150ER**
	PHASE PROTECTOR PP1.03

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

MODEL : MMC075FR



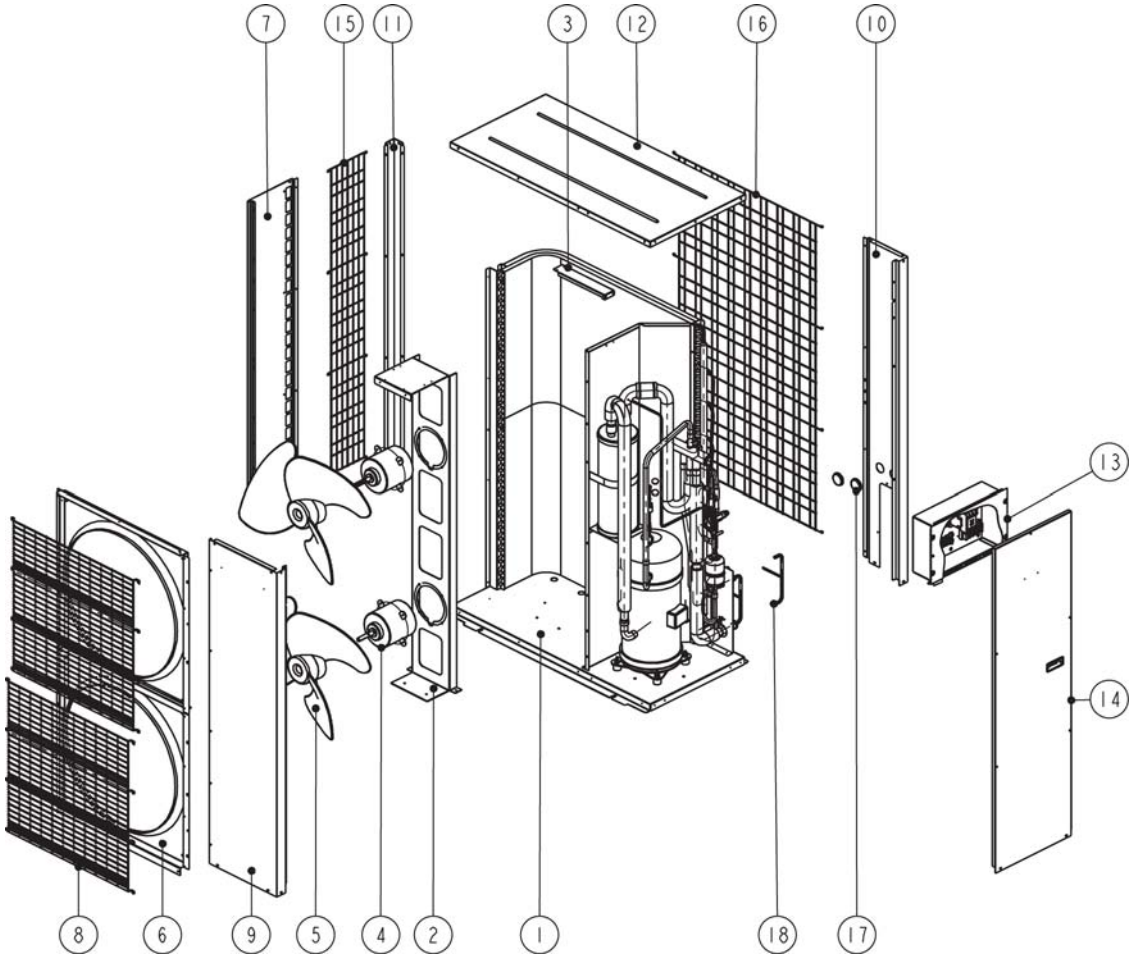
NO.	DESCRIPTION
1	ASSY, BASE PAN
2	ASSY, BRACKET MOTOR
3	PANEL, PARTITION
4	MOTOR, MSL61C-501-BOM-1.6M
5	MOTOR, MSS75F-501-BOM
6	FAN PROPRLLER
7	PANEL, ORIFICE TOP
8	PANEL, ORIFICE BOTTOM
9	PANEL , SIDE LEFT
10	STRUCTURE, FRONT RIGHT
11	STRUCTRE, REAR RIGHT
12	PANEL, SUPPORT PILLAR
13	PANEL, TOP
14	ASSY,TER. BOX MAIN
15	PANEL, SERVICE
16	FIN GUARD, LEFT
17	FIN GUARD, REAR
18	GROUP, ASSY. COIL

NO.	DESCRIPTION
19	COMPRESSOR
20	RELAY
21	CAPACITOR, 10uF/450VAC
22	CAPACITOR, 15uF/450VAC
23	CONTACTOR, 2NO+2NC
24	TERMINAL BLOCK, 20A
25	TERMINAL BLOCK, 50A
26	PHASE PROTECTOR, PP1.03
27	PRESS SWITCH, 7PSI
28	PRESS SWITCH, 426PSI
29	FAN GUARD

Parts Not In Diagram

	VALVE, REV 4 WAY
	VALVE, TXV
	VALVE, CHECK
	ACCUMULATOR
	SUPPORT, MOTOR BRACKET

MODEL : MMC100FR



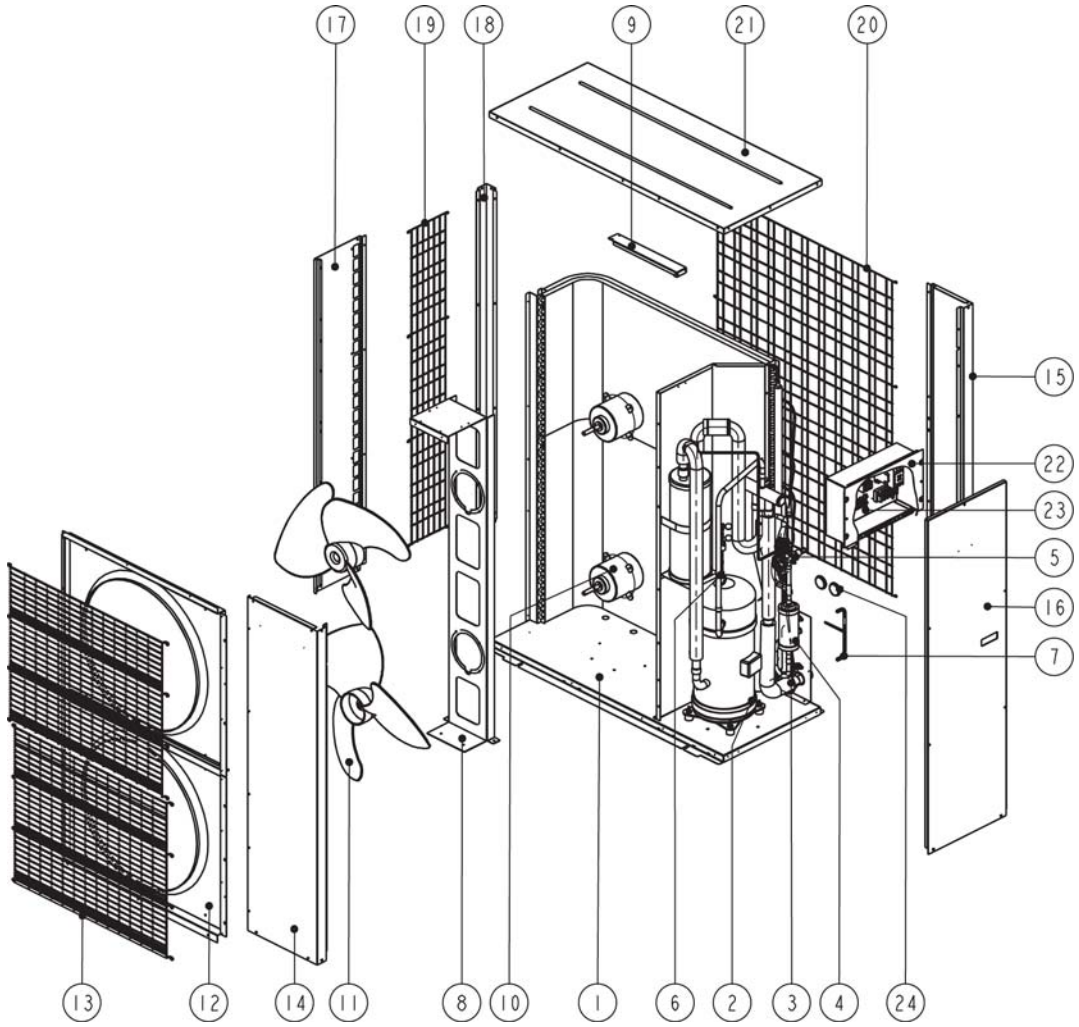
NO.	DESCRIPTION
1	ASSY, BASE PAN
2	ASSY, BRACKET MOTOR
3	PANEL, PARTITION
4	MOTOR, MSL61C-501-BOM-1.6M
5	MOTOR, MSL61C-501-BOM-1.6M
6	FAN PROPRLLER
7	PANEL, ORIFICE TOP
8	PANEL, ORIFICE BOTTOM
9	PANEL , SIDE LEFT
10	STRUCTURE, FRONT RIGHT
11	STRUCTRE, REAR RIGHT
12	PANEL, SUPPORT PILLAR
13	PANEL, TOP
14	ASSY,TER. BOX MAIN
15	PANEL, SERVICE
16	FIN GUARD, LEFT
17	FIN GUARD, REAR
18	GROUP, ASSY. COIL

NO.	DESCRIPTION
19	COMPRESSOR
20	RELAY
21	CAPACITOR, 10uF/450VAC
22	CAPACITOR, 10uF/450VAC
23	CONTACTOR, 2NO+2NC
24	TERMINAL BLOCK, 20A
25	TERMINAL BLOCK, 50A
26	PHASE PROTECTOR, PP1.03
27	PRESS SWITCH, 7PSI
28	PRESS SWITCH, 426PSI
29	FAN GUARD

Parts Not In Diagram

	VALVE, REV 4 WAY
	VALVE, TXV
	VALVE, CHECK
	ACCUMULATOR
	SUPPORT, MOTOR BRACKET

MODEL : MMC125FR



NO.	DESCRIPTION
1	ASSY, BASE PAN
2	ASSY, BRACKET MOTOR
3	PANEL, PARTITION
4	MOTOR, MSL60C-501-BOM-1-HA
5	MOTOR, MSL60C-501-BOM-1-HA
6	FAN PROPRLLER
7	PANEL, ORIFICE TOP
8	PANEL, ORIFICE BOTTOM
9	PANEL , SIDE LEFT
10	STRUCTURE, FRONT RIGHT
11	STRUCTRE, REAR RIGHT
12	PANEL, SUPPORT PILLAR
13	PANEL, TOP
14	ASSY,TER. BOX MAIN
15	PANEL, SERVICE
16	FIN GUARD, LEFT
17	FIN GUARD, REAR
18	GROUP, ASSY. COIL

NO.	DESCRIPTION
19	COMPRESSOR
20	RELAY
21	CAPACITOR, 15uF/450VAC
22	CAPACITOR, 15uF/450VAC
23	CONTACTOR, 2NO+2NC
24	TERMINAL BLOCK, 20A
25	TERMINAL BLOCK, 50A
26	PHASE PROTECTOR, PP1.03
27	PRESS SWITCH, 7PSI
28	PRESS SWITCH, 426PSI
29	FAN GUARD

Parts Not In Diagram

	VALVE, REV 4 WAY
	VALVE, TXV
	VALVE, CHECK
	ACCUMULATOR
	SUPPORT, MOTOR BRACKET

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