



Air-Cooled Product Solution

R-410A/R-407C



Products manufactured in an ISO certified facility.

This document contains the most current product information as of this printing.

For the most up-to-date product information, please go to www.mcquay.com.

McQuay
International

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A Global Leader in System Solutions for Air Conditioning, Heating, Ventilating and Refrigeration.

McQuay
Air Conditioning

Engineered for flexibility and performance.™

McQuay Air-Cooled Product

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Specifications R-410A

Wall Mounted	R-410A-1
Ceiling Cassette	R-410A-3
Ceiling Convertible	R-410A-6
Ceiling Concealed	R-410A-8
Horizontal Ducted Condensing Unit	R-410A-9

Specifications R-407C

Multi Split Systems	R-407C-1
Ceiling Concealed	R-407C-2
Ducted Split	R-407C-2
Air-Cooled Rooftop Package	R-407C-6



Global Distribution Network



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Products Overview

						
		Wall Mounted Single Split J Series	Wall Mounted Single Split G Series	Multi Split A Series	Ceiling Cassette E Series	Ceiling Cassette A & C Series
Model Range	R-410A	M5WM10/15J/JR	M5WM007/009/010/015/020/025G/GR M5WM031F/030FR	—	M5CK020/025/028/040/050E/ER	M5CK020/025/030/040/050A/AR M5CK010/015/020C/CR
	R-407C	—	—	M4MSD1010/1015/1515A/AR M4MST101010/101015/101515/ 151515A/AR	—	—
Cooling Capacity (kW)		2.65-3.15	2.20-7.62	2.64-10.56	5.40-13.80	2.78-13.48
Heating Capacity (kW)		2..80-3.38	2.20-7.62	2.64-9.66	5.40-13.80	2.78-14.07

						
		Ceiling Convertible E Series	Ceiling Convertible C & D Series	Ceiling Concealed D Series	Ceiling Concealed C Series	Horizontal Ducted Condensing Unit A Series
Model Range	R-410A	M5CM015/020/025/028/035/040/050E/ER	M5CM040/050D/DR M5CM062C/CR	—	M5CC010/015/020/025/ 028/038/050/060C/CR	M5HDC020/025AR
	R-407C	—	—	MCC075/100D/DR	—	—
Cooling Capacity (kW)		3.78-12.60	9.67-16.12	21.98-29.31	2.78-16.12	5.36-7.18
Heating Capacity (kW)		3.46-13.48	9.67-16.12	24.62-32.24	2.78-16.12	5.44-6.98

			
		Ducted Split D & ER Series	Air-Cooled Rooftop A Series
Model Range	R-410A	—	—
	R-407C	MDB075/100/125/150/200/250/ 300/400/500D MDB075/100/125/150/200/250/ 300/350/400/450/500/600ER	M4RT060/080/100/120/150/200/ 250/300/360/420A/AR
Cooling Capacity (kW)		21.40-169.9	17.3-109.6
Heating Capacity (kW)		23.74-175.85	20.2-126.3



M5WM 10/15 J/JR

Stylish Flat-Panel

Ideal blend of style and function. Regular cleaning is easier by just wiping the flat front panel. This ensures the air-conditioner will always look brand new all the time.



M5WM 10/15 J/JR

Cooling	9040 Btu/h - 10750 Btu/h 2.65 kW - 3.15 kW
Heating	9550 Btu/h - 11530 Btu/h 2.80 kW - 3.38 kW

Wall Mounted J Series

Higher Energy Efficiency

Using a more efficient compressor and superior R-410A refrigerant, M5WM10JR series achieves the highest European Energy Rating of A/A+. This ensure higher energy savings is accomplished especially during daily usage. M5WM-J series participates in the Eurovent Certification Programme under category of Comfort Air Conditioners rated below 12kW cooling capacity (AC1). The certified data for the certified models are listed in the Eurovent Directory.



M5LC 10/15 CJ/CRJ

Better Indoor Air Quality **Bio mask**

Better Indoor Air Quality (IAQ) Using Bio-Engineering

Bio-Mask is an IAQ solution which combines superior cleansing and purifying of Bio Antibody filter with more effective deodorizing features of Titanium Apatite filter.

Working in tandem, both technologically-advanced air filters offer higher level of IAQ and room comfort.

* Bio Mask is offered as optional accessories.

Protection 1

Bio Antibody Filter

Bio-engineering is the fusion of life science with engineering principles that creates exciting new solutions to considerably enhance the needs of modern lifestyle.

Using advanced bio-engineering techniques, the Bio Antibody filter is able to eliminate up to 99.99%* of various airborne infectious viruses to provide a cleaner and more purified living environment.

Bio Antibody Filter In Action

IgY Antibody

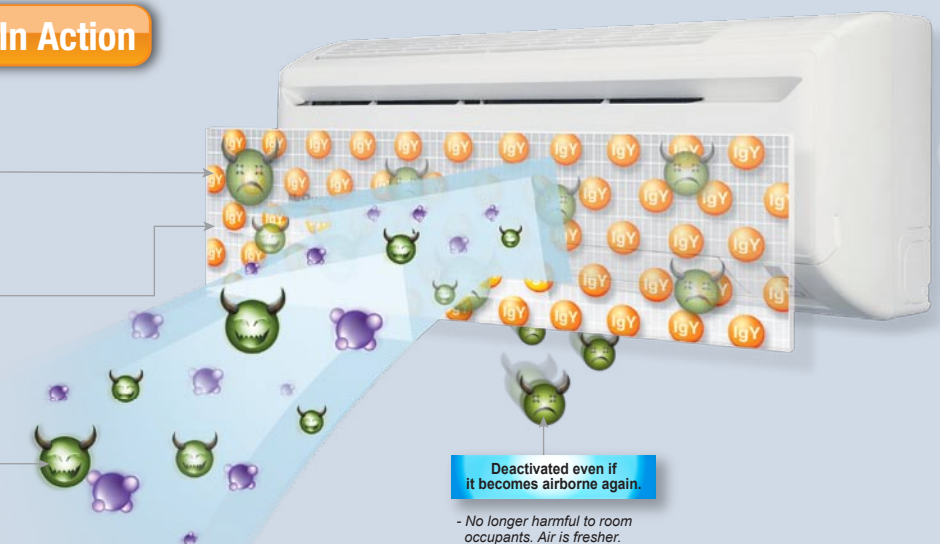
- deactivates 99.99% of airborne infections viruses within 1 minit

Bio-Antibody Filter

- Special filter material that contains IgY antibodies

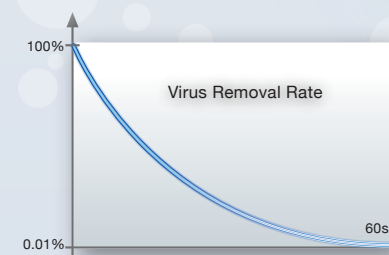
Airborne Virus

- Free floating viruses and antigen causes potential health hazards and discomfort to the room occupants.



Deactivated even if it becomes airborne again.

- No longer harmful to room occupants. Air is fresher.

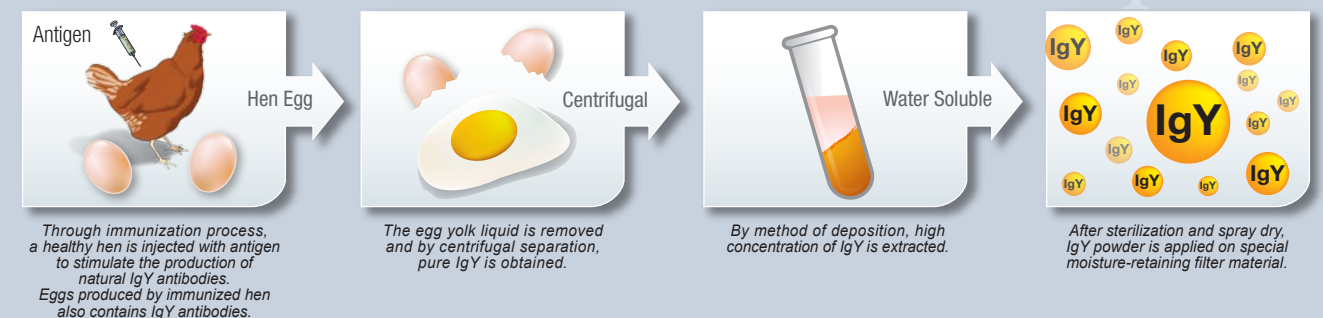


- Deactivates influenza virus within 1 minute*.
- Effective against the common H1N1 and H3N2 Type-A influenza viruses.
- Neutralization of virus as a result of natural antigen-antibody reaction.

* Proven through joint research with Waseda University (Japan), Japanese Ministry of Health, Labor & Welfare and National Institute of Infectious Diseases (Japan).

IgY Antibody

Extraction Technique



Through immunization process, a healthy hen is injected with antigen to stimulate the production of natural IgY antibodies. Eggs produced by immunized hen also contains IgY antibodies.

The egg yolk liquid is removed and by centrifugal separation, pure IgY is obtained.

By method of deposition, high concentration of IgY is extracted.

After sterilization and spray dry, IgY powder is applied on special moisture-retaining filter material.

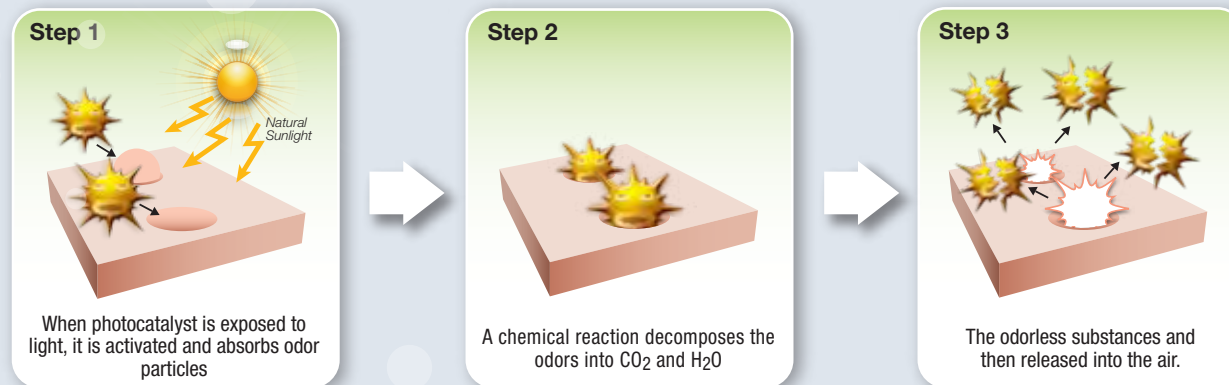


Protection 2 Titanium Apatite Filter

Micron-scale fibers trap dust while titanium apatite adsorbs organic contaminants such as bacteria and viruses. In addition, the titanium oxide is activated by natural light, allowing it to break down and eliminate odours. The filter effectively deactivates bacteria and viruses. It lasts for three years without replacement if washed about once every six months.

Titanium Oxide

- Photo catalytic deodorizing filter
- Mechanism of photo catalytic.
 - Titanium Oxide is activated by exposure to light.
 - Becomes highly oxidative.
 - Dissolves absorbed substances into harmless water (H₂O) and carbon dioxide (CO₂).
- Absorption of dangerous airborne particles like dust, pollen and cigarette smoke.
- Dissolves odor, bacteria and virus.

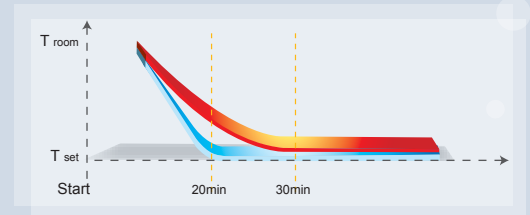


Absorption Power is More than Doubled Dissolution force is Increased.



Turbo Mode

TURBO function is available in COOL, HEAT and DRY modes only. Once turbo mode is activated, the air-conditioner will run into full power with indoor fan running at MAX speed for 20 minutes. This enables the required set temperature to be achieved in a short time. If TURBO and SLEEP are activated at the same time, the SLEEP mode timer will be reset, it will resume after TURBO function is cleared.

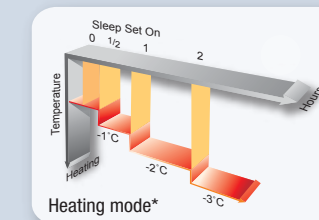


Lower Sound Level 25 dBA

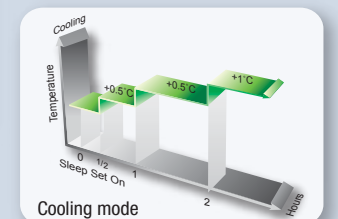
With up to five selectable fan speeds, users are given more choices. By selecting Quiet mode, the sound pressure level can be reduced down to an unobtrusive 25 dBA. For quickly cool down the room, turbo mode can be selected for maximum airflow.

Sleep Mode

Once activated, sleep mode ensures a comfortable environment for restful sleep. Depending on the mode, set temperature is increased / decreased gradually according to normal sleeping temperature patterns.



* Heat pump models only

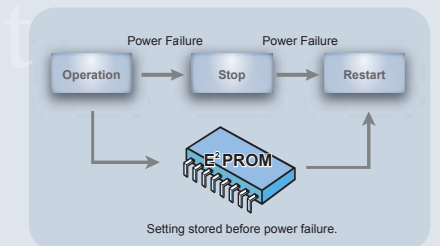


Personalized Setting

Allows users to store 2 sets of individual settings including operating mode, temperature, fan speed, and ON/OFF timer according to each person's specific needs. Each setting can be restored quite conveniently at a later time.

Auto Random Restart

In the event of a sudden power failure during operation, unit can be automatically restart (subject to certain protection conditions) from last setting condition. This eliminates the need to restart manually after each power failure.



Compact And Easy-To Use Handset

- Prominent temperature display.
- Real-time clock display.
- Easily accessible buttons for On/Off, Temperature Setting, Fan Speed and Mode control.
- Dedicated buttons for Silent and Turbo functions.



NIM - Able

Able to be connected to NIM network system that adds the benefits of zone control, Windows PC interface (NIM-PC).



M5WM 007/009/010/015/020/025 G/GR

M5WM 007/009/010/015/020/025 G/GR
M5WM 031 F/030 FR

Cooling	7500 Btu/h - 26000 Btu/h 2.20 kW - 7.62 kW
Heating	7500 Btu/h - 26000 Btu/h 2.20 kW - 7.62 kW

Wall Mounted G Series

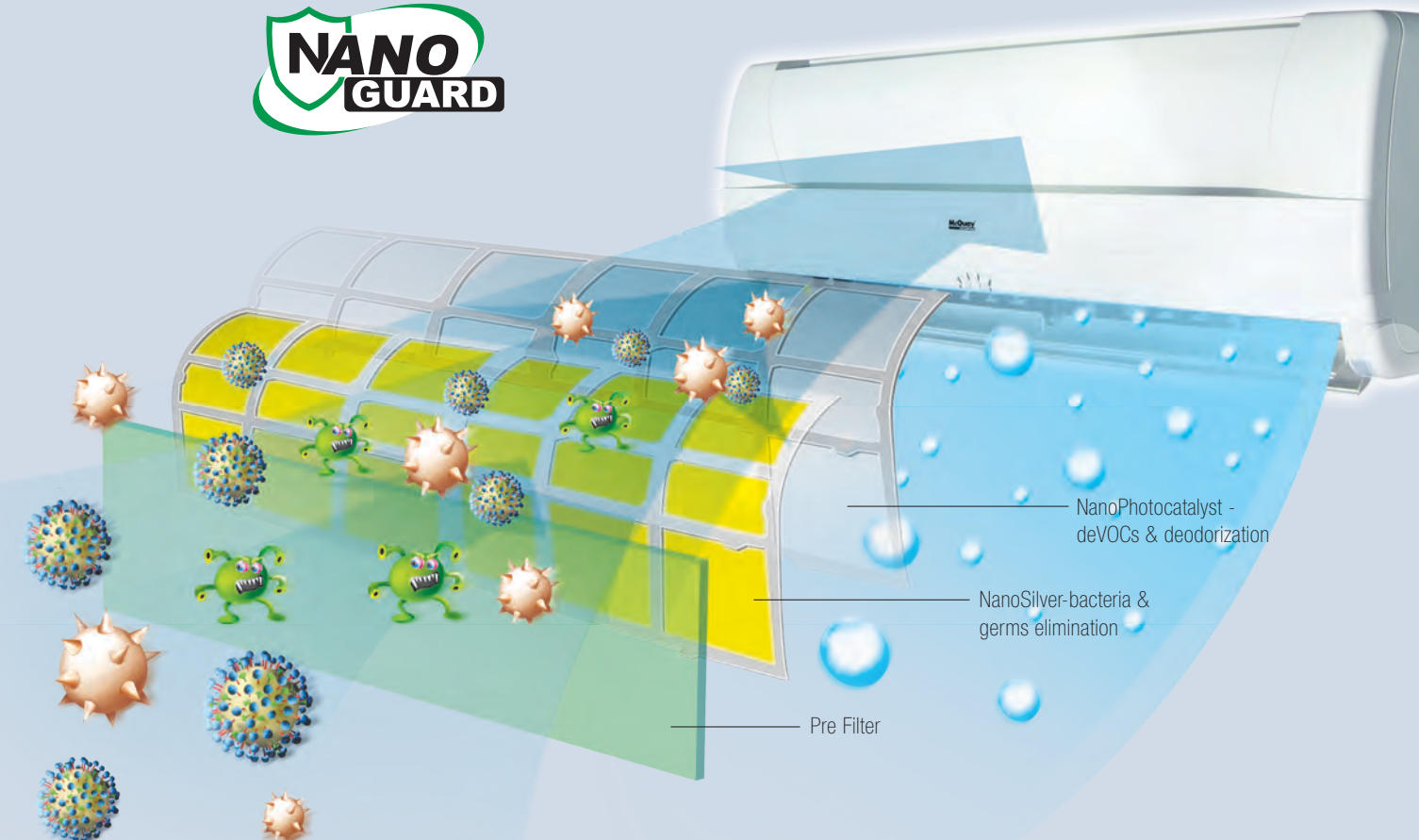


M5LC 007/010/015 C/CR



M5LC 020/025/028 C/CR

M5WM-G Series Offers Various Indoor Air Quality Features Improved with NanoTechnology



McQuay is focused on developing new and exciting products to improve everyday living environment. The all-new NanoGuard combines powerful sterilizing and deodorizing effect of NanoSilver and Nano-Photocatalyst.

Silver is used from the days of Hippocrates (Father of Medicine) as a healing agent and its use has been expanded into anti-bacterial applications ever since. Modern nanotechnology provides through full-infusion onto the filters and larger coated surface area.



Negative Ion Generator

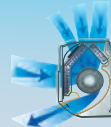
The Ion Generator releases a shower of negative ion to create a refreshing and cleaner environment.



New Aesthetically Outlook
A smooth front panel makes the cleaning process much easier for the user. These units blended easily into any interior decoration and design. The centrally located LED light makes it easier for user to check the operating conditions.

Double Louver
This new louver design together with its automatic air swing function provide room comfort by distributing air evenly to the room.

3-Fold Heat Exchanger
The compact design of this 3-fold structure provides a large surface area for better & efficient heat exchange.



Improved Performance with COP > 3.5

Taking advantage of the innovative 3-fold heat exchanger design, which offer greater surface area for heat exchange, and coupling with M5LC-C outdoor model, the M5WM 007/009/010GR series has been able to operate with improved performance, generating COP (Coefficient of Performance) of more than 3.5.

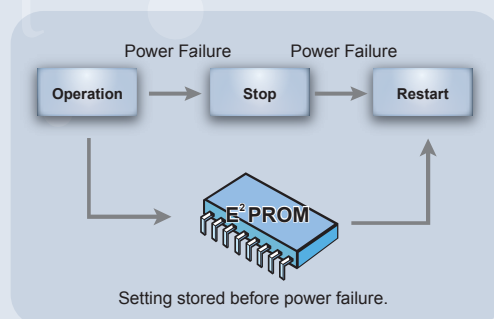
Easy Serviceability

Wall Mounted G series comes with a new design of air discharge housing whereby the fan blower can be easily accessed by just loosening up two screws on the unit. This new feature provides a flexible, faster and easier way to clean up the fan blower and ionizer.



Auto Random Restart

When there is power failure occurred during operation, the unit will automatically restart as the last setting condition once the power is resumed. Option is provided to cancel this feature.



EASY-To-Use LCD Remote Controller

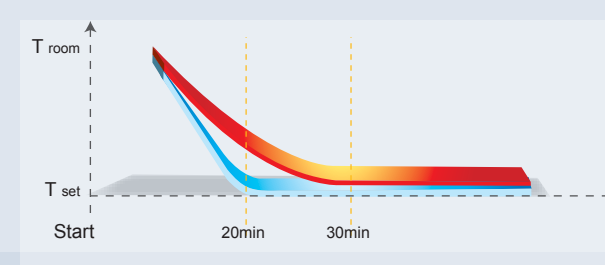
Ionizer

Just press the ionizer button and the air-conditioner will generate negative ion, which will refresh the indoor air effectively.

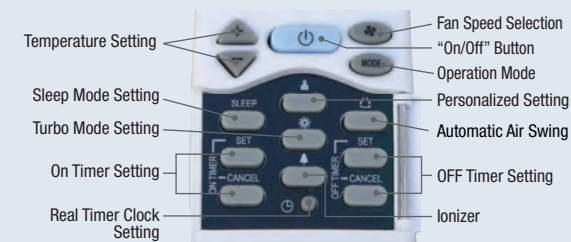


Turbo Mode

TURBO function is available in COOL, HEAT and DRY modes only. Once turbo mode is activated, the air-conditioner will run into full power with indoor fan running at HIGH speed for 20 minutes. This enables the required set temperature to be achieved in a short time. If TURBO and SLEEP are activated at the same time, the SLEEP mode timer will be reset, it will resume after TURBO function is cleared.



Personalized Setting



It allows user to pre-set and store 2 groups of personal settings (included timer setting) in the handset. This personalized settings can be overwritten from time to time based on user requirements.

M5WM 031F/030FR

Combining the advantages of a wall-mounted unit with improved cooling / heating capacity, M5WM031F/030FR is ideally designed for large key features include:

- **Uniform Air Distribution**
- automated air swing ensures conditioned air distributed evenly.
- **Quiet Operation**
- random-pitched fan blade delivers high air flow at lower sound level.
- **Easy Maintenance**
- air intake grille is detachable and cleaned with water.





M4MSD 1010/1015/1515 A/AR

M4MST 101010/101015/101515/151515 A/AR

M4MSD 1010/1015/1515 A/AR
M4MST 101010/101015/101515/151515 A/AR

Cooling	9000 Btu/h - 36000 Btu/h 2.64 kW - 10.56 kW
Heating	9000 Btu/h - 33000 Btu/h 2.64 kW - 9.66 kW

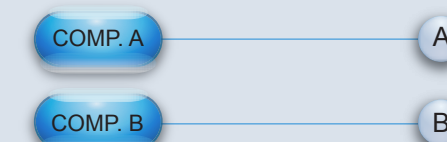
Multi Split Systems



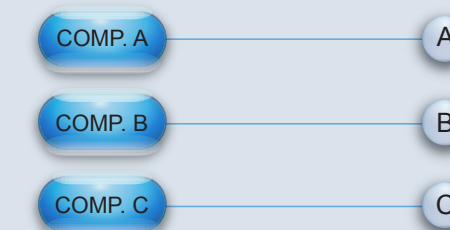
MWM 010/015 G/GR

Multi Split Schematic

M4MSD Series: Double Compressor 2-Indoor Split System



M4MST Series: Triple Compressor 3-Indoor Split System

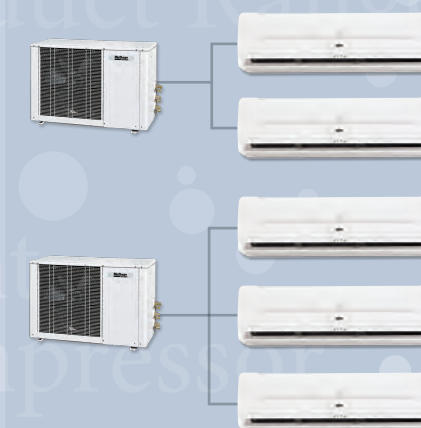


Space Saving

Only 1 outdoor is need to couple with 2 or more indoors. Thus, this has effectively improving the floor space utilisation. The Multi-Split models are especially popular in the apartment and condominium application where the floor space is very limited.

Comprehensive Product Range

McQuay offers a very comprehensive range of Multi-Split condensing units, right from System 2 (1 outdoor to 2 indoors) up to System 3 (1 outdoor to 3 indoors). In addition, each of the product range has various cooling/heating capacity combinations.



Reliable & Efficient Rotary Compressor

The reliable rotary compressor, which can efficiently providing an optimum cooling/heating capacity, is being used in the system.

Slit Fin

This fin design will enhance the heat transfer efficiency and thus boost up the cooling capacity.



Aesthetically attractive Indoor Units

The aesthetically attractive unit is equipped with many advance features.

- 24 Hours Real Time Timer
- Sleep Mode Auto Control
- Hydrophilic 'Slit' Fin
- 3 Speed Fan Control
- Auto Fan Speed Control
- Self Diagnosis System
- Soft Dry Operation
- Auto Random Restart



Easy-To-Use LCD Remote Controller

The design of G17 handset comes as standard for all M5WM-G series indoor which includes

- Real Time Timer
- Personalized Setting Control
- Turbo Mode
- Activation Of Negative Ion Generator



M5CK 020/025/028/040/050 E/ER

M5CK 020/025/028/040/050 E/ER

Cooling	18500 Btu/h – 47000 Btu/h 5.40 kW – 13.80 kW
Heating	18500 Btu/h – 47000 Btu/h 5.40 kW – 13.80 kW

Ceiling Cassette E Series



M5LC 020/025/028 C/CR



M5LC 035/040/050 C/CR

Improve Sound Level

The new M5CK-E series is equipped with a newly-developed turbo fan, which has improved the sound pressure level of the unit significantly.

	M5CK020E/ER	M5CK025E/ER	M5CK028E/ER	M5CK040E/ER	M5CK050E/ER
High Speed (dBA)	34	37	41	44	47
Target	M5CK020A/AR	M5CK025A/AR	M5CK030A/AR	M5CK040A/AR	M5CK050A/AR
	42	45	49	51	53

With up to 4 selected fan speeds, users are given more choices. By selecting the Quiet mode, the sound pressure level can be as low as 27dBA.



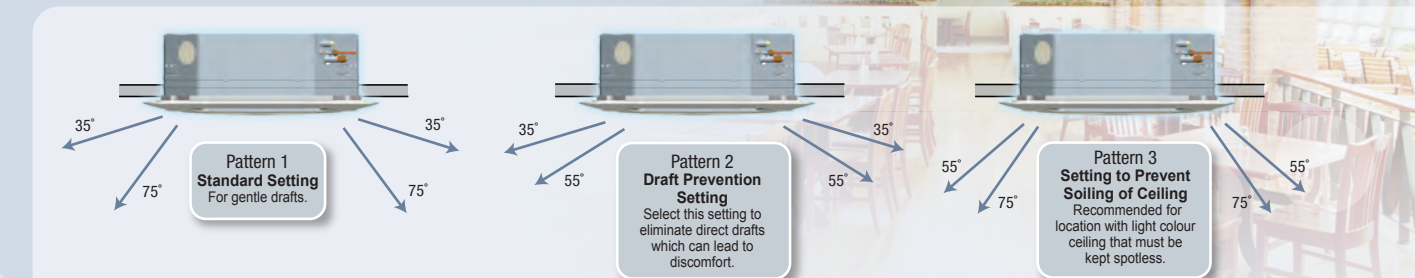
Lower Height Model

To ease installation, the overall height of the M5CK-E series had been greatly reduces.



Multi-Comfort – 3 Air Swing Pattern Control

To increase the comfort level of the air conditioned area of M5CK-E series, the system had been built in with 3 different type of air flow pattern to suit different requirement.



The default setting for air swing pattern is pattern 1. The air swing pattern can be selected through the wireless remote control.

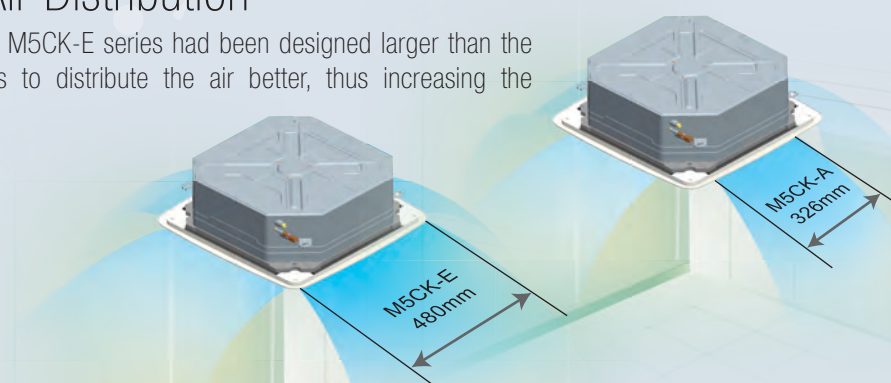
Built-In High Head Drain Pump

The unit comes with a built-in high head drain pump 700mm head. A safety float is incorporated in the drain pump to monitor its water level.



Wider 4 Way Air Distribution

The air discharge area for M5CK-E series had been designed larger than the current model. This helps to distribute the air better, thus increasing the comfort level.





M5CK 020/025/030/040/050 A/AR

M5CK 020/025/030/040/050 A/AR
M5CK 010/015/020 C/CR

Cooling	9500 Btu/h - 46000 Btu/h 2.78 kW - 13.48 kW
Heating	9500 Btu/h - 48000 Btu/h 2.78 kW - 14.07 kW



M5CK 010/015/020 C/CR

Ceiling Cassette A & C Series



M5LC 010/015 C/CR



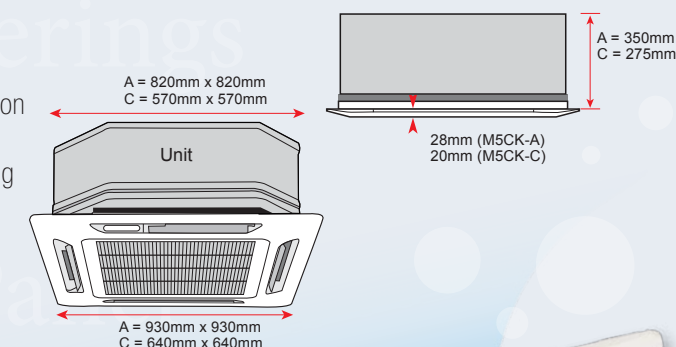
M5LC 020/025/028 C/CR



M5LC 035/040/050 C/CR

Wide Range Of Offerings

McQuay Ceiling Cassette offers flexibility and choices for installation depending on the interior design requirements. The compact M5CK-C series fits perfectly into the standard ceiling board of 600mm x 600mm and thus offers easier installation.



Stylish And Slim Panel

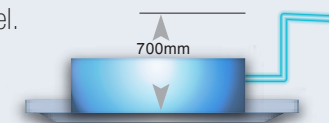
The slim panel can be blended easily into interior decoration and design.

4 Way Air Discharge And Air Swing

It comes with 4 way air discharge and air swing function to ensure better air distribution and circulation in the room.

Built-In High Head Drain Pump

The unit comes with a built-in high head drain pump 700mm head. A safety float is incorporated in the drain pump to monitor its water level.



Auto Mode

Auto Mode allows the setting to change automatically between cool and heat mode depending on the room temperature and the set temperature required.

Hot Keep Cycle

During heat mode hot keep cycle, the fan will run at low speed during the thermostat cycle off. As a result, one will not fill the draft of cold air discharge from the unit. Option of fan stop or fan run at specific interval timing can also be selected.

Self Diagnosis

This intelligent feature helps to detect faults or malfunctioning in the system and give user a warning by blinking of the LED lights.

NIM – Able

The M5CK-A/C range of product is able to communicate with the versatile NIM networking control module and offers the opportunity of one centralized control for a systems of multiple indoor units in a building.

Choices Of Wired And Wireless Controller



G17 Handset



AC-5300 Wireless Controller (Optional)



SLM 3 Wired Controller



M5CM 015/020/025/028 E/ER

M5CM 015/020/025/028/035/ 040/050 E/ER

Cooling	12900 Btu/h - 43000 Btu/h 3.78 kW - 12.60 kW
Heating	11800 Btu/h - 46000 Btu/h 3.46 kW - 13.48 kW



M5CM 035/040/050E/ER

Ceiling Convertible E Series



M5LC 015 C/CR



M5LC 020/025/028 C/CR



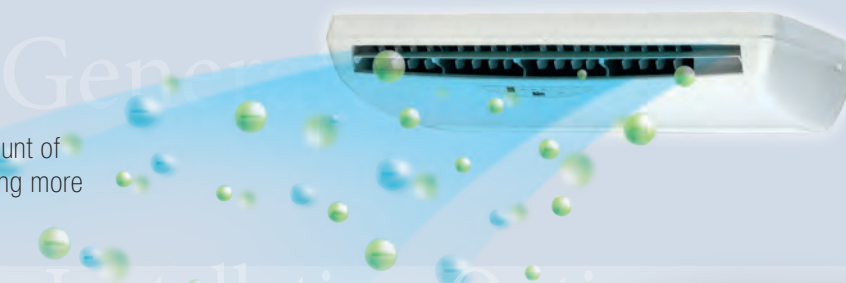
M5LC 035/040/050 C/CR

Indoor Air Quality Improvement

McQuay emphasis on providing quality air. Therefore, McQuay continue to offer under M5CM-E Series a range of feature to provide a healthier living environment.

Negative Ion Generator

The Negative Ion Generator increases the amount of negative ion in the air-conditioning area, creating more refreshing environment.



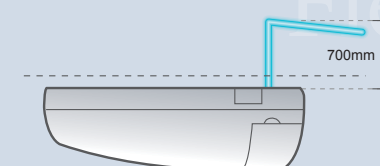
Ceiling and Floor Installation Option

The M5CM is designed with the option to install either below the ceiling or mounted at low wall position to suit any interior design requirement.



Automatic Air Swing

The motorized louver enables the air flow to be evenly distributed. At the same time, negative ion will be released to provide quality air.



Flexible Installation

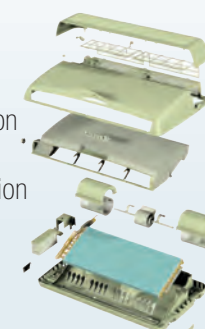
The unit is designed to work with high pressure head drain pump (optional). Thus offering flexibility for installation on condensate drain pipe. The drain pump comes with a high head and is incorporate with the float switch as safety protection.



Better Serviceability

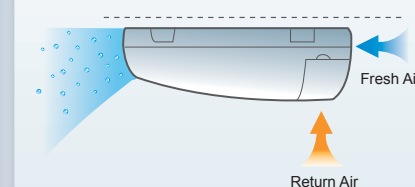
The washable filter can be easily access by just pulling down the intake grill. During servicing or repairing, only the bottom panel need to be removed in order to access.

- Fan Motor
- Blower
- Wiring Connection
- Control Box
- Piping Connection



Fresh Air Option

The M5CM is designed to draw in fresh air from outdoor. A fresh air knock out holes is designed within the unit itself to provide better ventilation.



Fresh air kit supplied as optional item

Choices Of Wired And Wireless Controller



G17 Handset



SLM 3 Wired Controller



AC-5300 Wireless Controller (Optional)



M5CM 040/050 D/DR

M5CM 040/050 D/DR	
M5CM 062 C/CR	
Cooling	33000 Btu/h - 55000 Btu/h 9.67 kW - 16.12 kW
Heating	33000 Btu/h - 55000 Btu/h 9.67 kW - 16.12 kW

M5CM 062 C/CR

Ceiling Convertible D Series



M5LC 035/040/050 C/CR



M5LC 061 C/CR

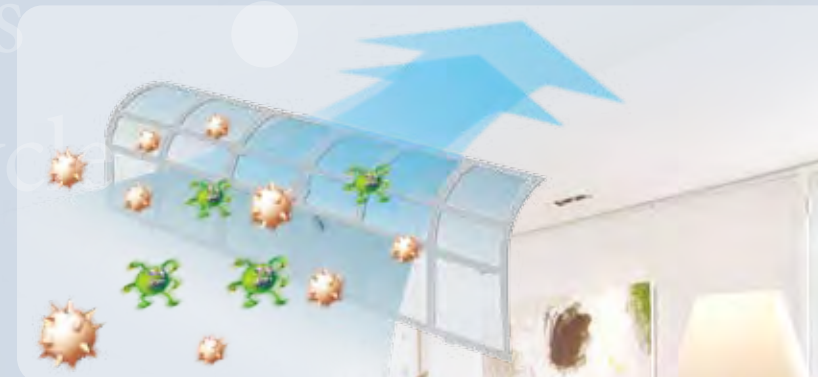
Ceiling And Floor Installing Option**

The unit is designed with possibility to be installed under the ceiling or sitting on the floor to suit any interior design requirements.



Saranet Air Filters

The anti fungus air filter removes dust-particles from the air.



Hot Keep Cycle

During heat mode hot keep cycle, the fan will run at low speed during the thermostat cycle off. As a result, one will not feel the draft of cold air discharge from the unit. Option of fan stop or fan run at specific interval timing can also be selected.

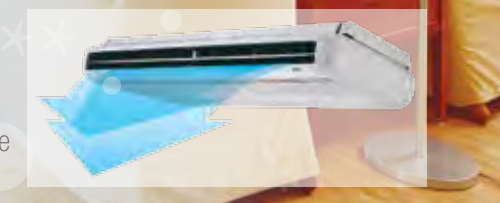
Two Way Air Discharge**

Equipped with two way air discharge, at front and bottom discharge; to provide better air distribution, for both cooling and heating effect.



Automatic Air Swing**

The swing mode enables the air flow to be evenly distributed into the room from the front discharge area.



Auto Random Restart

When there is power failure occurs during operation, the unit will automatically restart as the last setting condition when the power is resumed.

NIM – Able

The M5CM range of product is able to communicate with the versatile NIM networking control module and offers the opportunity of one centralized control for a systems of multiple indoor units in a building.

Auto Mode

Auto Mode allows the setting to change automatically between cool and heat mode depending on the room temperature and the set temperature required.

Choices Of Wired And Wireless Controller



G17 Handset



AC-5300 Wireless Controller (Optional)



SLM 3 Wired Controller

Self Diagnosis

This intelligent feature helps to detect faults or malfunctioning in the system and give user a warning by blinking of the LED lights.

**Applicable for M5CM-D/DR series only.



MCC 075/100 D/DR



MCC 075/100 D/DR

Cooling	75000 Btu/h - 100000 Btu/h 21.98 kW - 29.31 kW
Heating	84000 Btu/h - 110000 Btu/h 24.62 kW - 32.24 kW

Ceiling Concealed D Series



M4MC 075/100 D
M4MC 075/100 ER



Hide Away Operation

Installed concealed above the ceiling, MCC-D is designed to create more comfortable and healthier indoor air climate, while remaining hide away. This allows user to enjoy conditioned air without sacrificing room space or interior design creativity.



Easier Serviceability

With the concept of easy serviceability in mind, MCC-D series is designed for easy access to the internal components. The internal components, such as fan motor or fan blower, of the unit can be easily accessed for servicing through both sides or bottom of the unit.



Higher Level Of Protection

Each MCC-D series is incorporated with a unique safety feature, i.e a float switch, to protect the unit from possible problems of condensate water over flow inside the unit. Once the condensate water reaches critical level, the level switch will be activated and signal will be sent to microprocessor controller to stop the compressor as well to send an error message to the wired controller, alerting the owner, for further action.

Flexibility In System Design

The unit offers fan motor that can operate up to 4 speeds, thus provide choices of external static pressure for designing ducting system.

Choices Of Wired And Wireless Controller



NetWare III Controller



AC-5300 Wireless
Controller (Optional)

Standard unit come with the Netware III, which offers wide range of control features that includes 7 days and 24 hours timer setting, self diagnosis error code display and more.

In addition, an innovative credit card size remote controller, AC-5300, can also provides wireless command to Netware III handset.



M5CC 010/015/020/025/028/038/050/060 C/CR

M5CC 010/015/020/025/028/038/050/060 C/CR

Cooling	9500 Btu/h - 55000 Btu/h 2.78 kW - 16.12 kW
Heating	9500 Btu/h - 55000 Btu/h 2.78 kW - 16.12 kW

Ceiling Concealed C Series



M5LC 010/015 C/CR



M5LC 020/025/028 C/CR



M5LC 035/040/050 C/CR



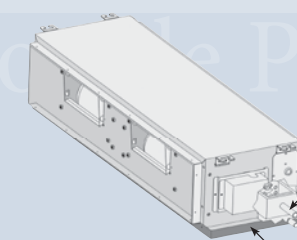
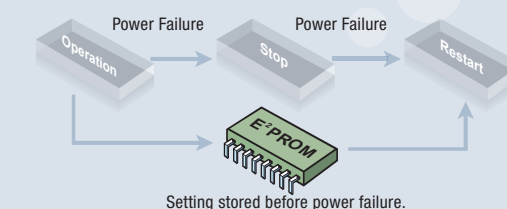
M5LC 061 C/CR

Microprocessor Controlled

With the microprocessor controlling the operation, the M5CC-C model can offer comfortable room conditions according to the needs of the user. In addition, its control algorithms can provide protection to components of the air conditioning unit against faulty.

Auto Random Restart

The unit will automatically restart according to the last setting condition when power resumed during occasion of power failure. Option is provided to cancel this feature.



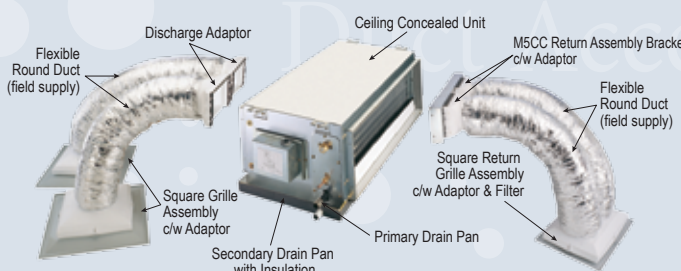
Primary Drain Pan
Polystyrene (Ps) With
Height Impact Polystyrene
(Hips) Cover
Secondary Drain Pan With Insulation

Double Protection Drainage System

The primary drain pan is designed with high thermal insulation material and moulded in gradient for better condensate water drainage. The extra secondary drain pan "built in" to the standard unit offers extra protection against possible water leaking problems.

Flexibility In System Design

The unit offers fan motor that can operate up to 4 speeds (M5CC028-060C/CR only), thus provide choices of external static pressure for designing ducting system. In addition, a range of M5CC-C model with optional specification of low external static pressure is also provided. Please refer to the technical specification of M5CC model.



Duct Accessories (Optional)

A set duct accessories specifically designed to fit and to suit the M5CC-C model is being created. Thus offers a one stop solution to installing the unit.

* Available for M5CC 010-025 C/CR only.

Self Diagnosis Features

The microprocessor provides the possibility to detect and to diagnose any faults that occurs in the system. Faults are displayed as error code in the wired controller. This will ease the troubleshooting process

NIM – Able

The M5CC range of product is able to communicate with the versatile NIM networking control module and offers the opportunity of one centralized control for a systems of multiple indoor units in a building.

Choices Of Wired And Wireless Controller



SLM 3 Wired Controller



AC-5300 Wireless
Controller (Optional)



NetWare III Controller

Standard unit come with a simple and user friendly SLM 3. An optional specification of M5CC-C series is also available that come with Netware III, which offers wide range of control features that includes 7 days and 24 hours timer settings, self diagnosis error code display and more. In addition, an wireless controller of credit card size, AC-5300, which provides wireless command to the SLM 3 and NetWare III.



M5HDC 020/025 AR



M5HDC 020/025 AR

Cooling	18300 Btu/h - 24500 Btu/h 5.36 kW - 7.18 kW
Heating	18500 Btu/h - 23800 Btu/h 5.44 kW - 6.98 kW



Horizontal Ducted Condensing Unit

Indoor Unit:



Wall Mounted



Ceiling Cassette

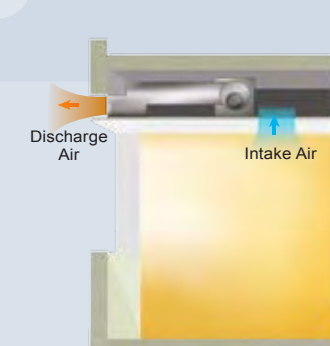


Ceiling Concealed

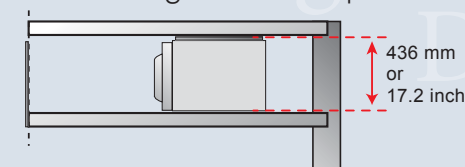


Flexibility in Installation

Incorporate with centrifugal fan design and using direct fan drive mechanism, the M5HDC offers flexibility in installation. The adequate external static pressure of the M5HDC is suitable for ducting and ductless application. Hence, by carefully sizing the ducting, user could install the unit in a concealed place without sacrificing a drop in unit capacity.



Low Height & Compact Design



The low height of 436 mm of the M5HDC can easily be fit into any concealed ceiling and cover by either false ceiling or ceiling board.

Safety and Space Saving

The design of the M5HDC offer greater safety as compare to normal condensing unit. With the ability to be hanged on the ceiling, there will be no condensing unit sitting on the balcony. This eliminates the potential danger for users from exposing to the condensing fan blade as well as providing more space for leisure at the balcony.



Higher Efficiency



Incorporate with slit fins and inner groove copper tube design, the heat exchange surface of the M5HDC has been increased. This has boosts up the heat transfer capabilities, providing better efficiency and hence increase the unit capacity. Besides that, the M5HDC is equipped with state-of-the-art compressor with proven quality, thus giving the unit high capacity, good performance, better reliability and durability.

Robust Unit

Constructed with gauge galvanized steel and powder paint, the M5HDC is designed to resist the tough climate and has better weather protection. This helps to established the M5HDC series as a more robust unit.

Quiet Operation

By installing the unit inside a concealed ceiling, with ducted discharge air, the invisible outdoor unit produces lower noise level as compare to normal condensing unit which is exposed to view. This also helps in reducing the sound pressure of the unit.

Wide Product Range

McQuay ducted split is offering very wide range of product lineup which is applicable from residential, to light commercial or even commercial use.

Heatpump Unit

MDB 075/100/125/150/200/250/300/350/400/500/600 ER

Cooling	73000 Btu/h - 580000 Btu/h 21.40 kW - 169.9 kW
Heating	81000 Btu/h - 600000 Btu/h 23.74 kW - 175.85 kW

Cooling Only Unit

MDB 075/100/125/150/200/250/300/400/500 D

Cooling	73000 Btu/h - 432000 Btu/h 21.40 kW - 126.61 kW
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Ducted Split

Modular Combination

With only 4 different capacities outdoors, McQuay ducted split product range is ranking up to an individual indoor unit at approximately 600MBH.

Quality you can depend on

McQuay ducted split quality is ensured & qualified by specific testing method as following:

- 100% coil leak test by helium testing method
- Copper tubes were tested at burst pressure, where it is at least 3 times the refrigerant operating pressure.
- Every components being used in our unit are tested, at factory test lab.
- Every unit receives a 100% unit run test before leaving the production line to make sure it lives up to McQuay requirement.



M4MC 075/100/125/150 D/ER



MDB 075/100 D/ER



MDB 125/150 D/ER



MDB 200-600 ER

Cabinet Construction

Either indoor or outdoor is coated with weatherproofed electro galvanized mild steel casing, with an epoxy is coated with an epoxy polyester powder costing for severe external conditions.

Service Panel is available at the convenience side for both indoor and outdoor.

Indoor Air Throw Direction

Convertible discharge air direction at indoor unit has made it versatile to various architectural designs.

Changeable Drive Package

Non-standard external static pressure & airflow requirement can be sized by changing the factory fitted drive package. (limited for belt drive model only)

Easy To Reach Access Valve

Discharge line and suction line access valve is accessible without opening the unit casing.

Insulation

Fire-resistant Polyethylene is used at every possible condensate panel to prevent all forms of water or moisture penetration. Polyethylene, which is also a type of Closed Cell Foam Insulation (CCF) has offered the following advantages:

- Durable external surface that resists dirt tough and resilient
- Higher degree of puncture resistance when compared to fiberglass
- Easily cleaned surface (if necessary) to further resist microbial growth

Components

- Expansion device: thermal expansion valves are supplied as standard. Double TXV is used in heatpump model to optimize the performance for both cooling and heating.
- Compressor: Each high efficiency scroll type compressor is hermetically sealed, quiet running and supported on rubber mounts to minimize vibration.
- Indoor Fan: A dynamically balanced forward curved fan with a field changeable pulley package, in order to match the designed supply air requirements.
- Condenser fan blade: Use of 32" and 36" propeller fan blade has effectively reduce the sound pressure level.
- Condenser fan motor: IP20 for M4MC 075/100 D/ER while IP54 for M4MC 125/150 D/ER.

Refrigeration

The outdoor units are come with factory Nitrogen holding charge. Installer will need to charge the R-407C refrigerant at side according to the manual recommendation.

Long Piping Application

Standard maximum piping length of McQuay ducted split is up to 35m for Cooling Only model and 45m for heatpump model. However, long piping spec for Cooling Only model can be specified for stringent project requirement.

Safety Features

- High Pressure and Low Pressure protection.
- Compressor & motor current overload protection.
- Sensor fault indication.
- Phase sequencer is used to detect for any wrong phase and phase loss during installation and operation.

Command Performance

Standard units are equipped with microprocessor controller and it is equipped with following functions:

- Mode selection
- Timer (delay timer for SLM3 and real timer for Sequential)
- Temperature Setting
- Error code display

Auto-Random Restart

Whenever unit stop due to power failure during operation unit automatically restarts at last setting condition once the power is resumed. However, the compressors will restart randomly if more than one unit is installed and share the same phase of power. Option is provided to cancel this feature.



Wired Controller*



Sequential Controller**



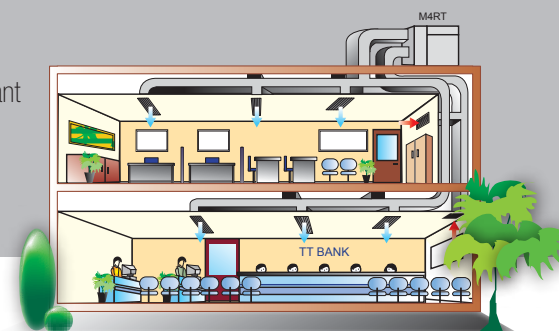
M4RT 060/080/100/120/150/ 200/250/300/360/420 A/AR	
Cooling	59000 Btu/h - 374000 Btu/h 17.3 kW - 109.6 kW
Heating	69000 Btu/h - 431000 Btu/h 20.2 kW - 126.3 kW

Air-Cooled Rooftop Packaged A Series

Quality you can depend on

McQuay rooftop quality is ensured & qualified by specific testing method as following:

- 100% coil leak test by helium testing method
- Copper tubes were tested at burst pressure, where it is at least 3 times the refrigerant operating pressure.
- Every components being used in our rooftop are tested, at factory test lab.
- Every unit receives a 100% unit run test before leaving the production line to make sure it lives up to McQuay requirement.

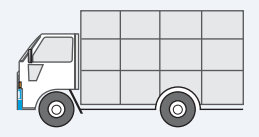
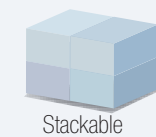


Cabinet & Base Construction

McQuay rooftop is equipped with a solid base foundation and compact cabinet. The weatherproofed electro galvanized mild steel casing is coated with an epoxy polyester powder costing for protection against corrosion. Forklift slots and rigging hole is provide for better handling purpose. All McQuay rooftop designs were rigorously rain tested at the factory to ensure the water integrity.

Flat Top Design

Unit's flat top design allows the unit to be stacked up at warehouse or even during transportation, resulting in maximum utilization of warehouse and container space.



Insulation

10mm thickness, fire-resistant Polyethylene is used at every possible condensate panel to prevent all forms of water or moisture penetration. Polyethylene, which is also a type of Closed Cell Foam Insulation (CCF) has offered the following advantages:

- Durable external surface that resists dirt tough and resilient
- Higher degree of puncture resistance when compared to fiberglass
- Easily cleaned surface (if necessary) to further resist microbial growth

Components

- **Expansion device:** Optimized capillary tube is used for better performance. However, thermal expansion valves spec can be specified in any project requirement.
- **Compressor:** Each high efficiency scroll type compressor is hermetically sealed, quiet running and supported on rubber mounts to minimize vibration.
- **Indoor Fan:** A dynamically balanced forward curved fan with a field changeable pulley package, in order to match the designed supply air requirements.
- **Outdoor Fan:** IP54 rated condenser fan is being used for M4RT250/300/360/420 A/AR.

Refrigeration System

- The MRT series are factory charged with zero ozone depleting potential HFC refrigerant, R-407C.

Safety Features

- High Pressure and loss of refrigerant protection.
- Compressor & motor current overload protection.
- Sensor fault indication.
- Minimum compressor's running time to ensure oil return.
- Phase sequencer is used to detect for any wrong phase and phase loss during installation and operation.

Auto-Random Restart

Whenever unit stop due to power failure during operation unit automatically restarts at last setting condition once the power is resumed. However, the compressors will restart randomly if more than one unit is installed and share the same phase of power. Option is provided to cancel this feature.

Microprocessor Unit Controls

- Standard units are equipped with microprocessor controller and every unit is come with a microprocessor operated handset, basic functions of these handset are:
 - Mode selection
 - Temperature Setting
 - Timer (delay timer for SLM3 and real timer for Sequential)
 - Error code display.



SLM 3 Wired Controller



Sequential Controller



Intelligent Control Series

Network Control NIM

Network Interface Module (NIM) is a networking system which enables communication among McQuay air conditioners.

With the Network Interface Module (NIM), all your air conditioning systems can be controlled with just a single controller giving you benefits:

BENEFITS

- **More convenience.** No more individually controlling air conditioning units
- **Quicker and easier zone control** from the master control unit
- **Better control** of air conditioning systems operating conditions

NIM utilizes master-slave type system whereby the master node will issue commands to each of the slave nodes.

Every master unit will have a group address so that every slave can only response to their respective master. Each slave unit must have a unique address so that it can be addressed independently of other nodes.

The master unit will be operating in conjunction with a control panel. Any settings done via the control panel connected to the master will overwrite the settings of its slave units.

Slave unit can be operated with or without control panel. If a slave unit is operating with a control panel, its settings can be changed without following its master.



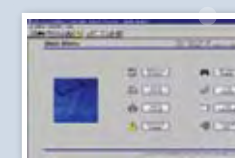
NIM

BASIC FEATURE

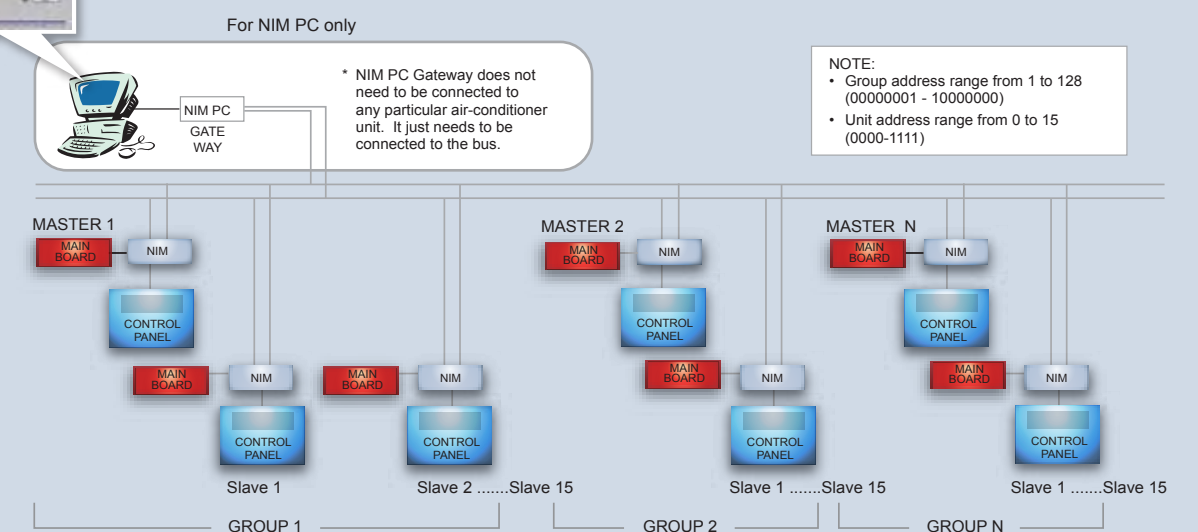
- DIP switch setting for Group & Unit address.
- Master or slave system configuration.
- Automatic detection of control panel existence.
- Error type and unit ID indication through
- Display control panel.
- Maximum point to point communication bus up to 1000m.
- A single master unit can control up to 15 slave units in each group.
- Support up to 128 air conditioning units on a single communication bus.
- Each slave unit will sense their individual local temperature.

THE NIM SYSTEM CONSISTS OF

- Main Board controller
- Display control panel
- NIM controller
- Communications bus



Typical Bus Structure for NIM Network





MAIN BOARD CONTROLLERS AND DISPLAY CONTROL PANEL

NIM must be used in conjunction with:

- Main board Universal U1.4, W1V3 and above
- Wired controller Netware 3, SLM 3 or Wireless Remote Control

SUPPORTED CONFIGURATION

	Master	Slave
Netware 3		
SLM 3	—	
IR Remote	—	
None of the interface above	—	

COMMUNICATION BUS

A 2-way twisted pair cable is used as the communication bus.

Recommended cable for communication bus is a pair of screened & shielded, twisted single core wire with core diameter of 0.5mm to 1.0mm.

Connection	Recommended Maximum Cable Length (m)
First NIM to the furthest connected NIM	1000
NIM to Main Board	10
NIM to Wired Controller	10
NIM to NIM PC Gateway	10

CONNECTION

The communication bus must be connected serially to the adjacent NIM. (Daisy chain connection). The same polarity has to be connected between the NIMs (A to A, B to B).



NIM PC-Gate Way

NIM PC II For Global Control Hub

With NIM PC II, a personal computer will act as a centralised unit for both controlling and monitoring of all air conditioning units in the NIM network.

For controlling, settings can be set from the PC and send out to the system for execution. While for monitoring, there is a graphical user interface for displaying the status of each unit.

The NIM PC II provides a Global Control Hub that offers control for better system management:

- Easier to operate full graphical user interface
- Control online units globally, as a group, or as individual units
- Configure a super master unit
- Support up to 42 on/off timers per week
- Real time monitoring of online units
- Error diagnostic and alerting features for all units
- Data logging and printing ability
- Database to store unit location
- Login protected by password



GUI-Main Menu

S - NIM For Timer Switchover Control

Built on the NIM configuration, S-NIM serves to enhance the abilities and extend the operating lifetime of existing air conditioning units in harsh and demanding environment.



S-NIM

S-NIM works in a master & slave system, operating at alternate sequence of preset hours. Whenever the operating unit is at fault, the standby unit will automatically takes over.

FEATURES

- Auto restart feature with last state settings.
- 2 air conditioning units in a master & slave system, operating at alternate sequence of preset time (3/4/5/7/9/11/12 hours).
- System controlled by a single Netware 3 or SLM3 wired controller.
- When the operating unit is at fault, the standby unit automatically takes over.
- Error indication via error code displayed on LCD panel. (only is using Netware 3 control panel)
- During system OFF mode, running timer will stop. It resumes when changing to ON mode.
- Preset operation hours can be set via DIP Switch.

** The air conditioning unit connected to the wired controller is always the master unit.*

THE S-NIM SYSTEM CONSISTS OF

- Main Board controller
- S-NIM controller
- Display control panel
- Communication Bus

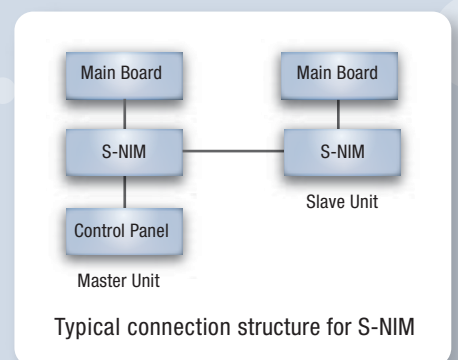
COMMUNICATION BUS

A 2-way twisted pair cable is used as the communication bus.

Recommended cable for communication bus is a pair of screened & shielded, twisted single core wire with core diameter of 0.5mm to 1.0mm.

S-NIM CONTROLLER APPLICATION

- Server Room
- Telecommunication Tower
- Livestock Breeding Farm
- Warehouse
- Laboratory
- Railway Switching Center
- Room with Critical Electronics Equipments



WALL MOUNTED M5WM-J SERIES - R-410A

HEATPUMP MODEL			INDOOR UNIT		M5WM 10JR		M5WM 15JR		
			OUTDOOR UNIT		M5LC 10CRJ		M5LC 15CRJ		
NOMINAL COOLING CAPACITY				Btu/h	9040		10750		
				W	2650		3150		
NOMINAL HEATING CAPACITY				Btu/h	9550		11530		
				W	2800		3380		
50 Hz	NOMINAL TOTAL INPUT POWER		COOLING	W	825		1094		
			HEATING	W	775		988		
	EER		W/W		3.21		2.88		
			COP		W/W		3.61		3.42
COOLING ONLY MODEL			INDOOR UNIT		M5WM 10J		M5WM 15J		
			OUTDOOR UNIT		M5LC 10CJ		M5LC 15CJ		
NOMINAL CAPACITY				Btu/h	9040		10750		
				W	2650		3150		
50 Hz	NOMINAL TOTAL INPUT POWER			W	825		1094		
	EER			W/W	3.21		2.88		
POWER SOURCE				V/Ph/Hz		220-240/1/50			
INDOOR UNIT	AIR FLOW		HIGH	l/s / cfm	158 / 335		163 / 346		
			MEDIUM	l/s / cfm	132 / 279		138 / 293		
			LOW	l/s / cfm	105 / 222		113 / 240		
	SOUND PRESSURE LEVEL (MAX/MIN)			dBA	39 / 25		41 / 27		
	UNIT DIMENSION		HEIGHT	mm / in	288 / 11.3				
			WIDTH	mm / in	800 / 31.5				
DEPTH			mm / in	204 / 8.0					
UNIT WEIGHT			kg / lb	12 / 26.5		12 / 26.5			
SOUND PRESSURE LEVEL				dBA	46		49		
OUTDOOR UNIT	UNIT DIMENSION		HEIGHT	mm / in	540 / 21.3				
			WIDTH	mm / in	700 / 27.6				
			DEPTH	mm / in	250 / 9.8				
	UNIT WEIGHT			kg / lb	32 / 70.5		32 / 70.5		
	PIPE CONNECTION		TYPE	FLARE VALVE					
			SIZE	LIQUID GAS	mm / in	6.35 / 1/4 9.52 / 3/8		6.35 / 1/4 12.70 / 1/2	

WALL MOUNTED M5WM-G SERIES - R-410A

HEATPUMP MODEL			INDOOR UNIT		M5WM 007GR	M5WM 009GR	M5WM 010GR	M5WM 015GR
			OUTDOOR UNIT		M5LC 007CR	M5LC 010CR		M5LC 015CR
NOMINAL COOLING CAPACITY				Btu/h	7500	9000	9500	12000
				W	2200	2640	2780	3520
NOMINAL HEATING CAPACITY				Btu/h	7500	9000	9500	12000
				W	2200	2640	2780	3520
50 Hz	NOMINAL TOTAL INPUT POWER		COOLING	W	680	860	910	1230
			HEATING	W	550	745	770	1080
	EER		W/W	3.24	3.07	3.05	2.86	
			COP		W/W	4.00	3.54	3.61
COOLING ONLY MODEL		INDOOR UNIT			M5WM 007G	M5WM 009G	M5WM 010G	M5WM 015G
		OUTDOOR UNIT		M5LC 007C	M5LC 010C		M5LC 015C	
NOMINAL CAPACITY				Btu/h	7500	9000	9500	12000
				W	2200	2640	2780	3520
50 Hz	NOMINAL TOTAL INPUT POWER			W	620	860	910	1230
				EER	W/W	3.55	3.07	3.05
POWER SOURCE			V/Ph/Hz	220-240/1/50				
INDOOR UNIT	AIR FLOW		HIGH	l/s / cfm	130 / 275	130 / 275	142 / 300	163 / 345
			MEDIUM	l/s / cfm	106 / 225	106 / 225	118 / 250	135 / 285
			LOW	l/s / cfm	83 / 175	83 / 175	94 / 200	104 / 220
	SOUND PRESSURE LEVEL (H/M/L)			dBA	40 / 35 / 29	40 / 35 / 29	39 / 34 / 28	42 / 36 / 29
	UNIT DIMENSION		HEIGHT	mm / in	260 / 10.2	260 / 10.2	260 / 10.2	260 / 10.2
			WIDTH	mm / in	799 / 31.5	799 / 31.5	899 / 35.4	899 / 35.4
			DEPTH	mm / in	198 / 7.8	198 / 7.8	198 / 7.8	198 / 7.8
	UNIT WEIGHT			kg / lb	10 / 22.0	10 / 22.0	12 / 26.5	12 / 26.5
OUTDOOR UNIT	SOUND PRESSURE LEVEL			dBA	44	46	49	
	UNIT DIMENSION		HEIGHT	mm / in	495 / 19.5	540 / 21.3	540 / 21.3	
			WIDTH	mm / in	600 / 23.6	700 / 27.6	700 / 27.6	
			DEPTH	mm / in	245 / 9.7	250 / 9.8	250 / 9.8	
	UNIT WEIGHT			kg / lb	26 / 57.3	32 / 70.5	32 / 70.5	
	PIPE CONNECTION		TYPE	FLARE VALVE				
			SIZE	LIQUID GAS	mm / in	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4
					9.52 / 3/8	9.52 / 3/8	12.70 / 1/2	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD.
POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 0.8m BELOW THE UNIT.

WALL MOUNTED M5WM-G SERIES - R-410A

HEATPUMP MODEL		INDOOR UNIT		M5WM 020GR	M5WM 025GR	M5WM 030FR	
		OUTDOOR UNIT		M5LC 020CR	M5LC 025CR	M5LC 028CR	
NOMINAL COOLING CAPACITY - 1Ø <3Ø>			Btu/h	17850 <18000>	20350 <22500>	26000 <26000>	
			W	5230 <5280>	5960 <6590>	7620 <7620>	
NOMINAL HEATING CAPACITY - 1Ø <3Ø>			Btu/h	18000 <18500>	22000 <23000>	26000 <26000>	
			W	5280 <5420>	6448 <6740>	7620 <7620>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		COOLING	W	1630 <1663>	1860 <2195>	2560 <2631>
			HEATING	W	1546 <1630>	1870 <2106>	2442 <2294>
	EER - 1Ø <3Ø>		W/W	3.21 <3.17>	3.21 <3.00>	2.98 <2.90>	
	COP - 1Ø <3Ø>		W/W	3.42 <3.33>	3.45 <3.20>	3.12 <3.32>	
COOLING ONLY MODEL		INDOOR UNIT		M5WM 020G	M5WM 025G	M5WM 031F	
		OUTDOOR UNIT		M5LC 020C	M5LC 025C	M5LC 028C	
NOMINAL CAPACITY - 1Ø <3Ø>			Btu/h	17850 <18000>	20350 <22500>	26000 <26000>	
			W	5230 <5280>	5960 <6590>	7620 <7620>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		W	1630 <1663>	1860 <2195>	2560 <2631>	
	EER - 1Ø <3Ø>		W/W	3.21 <3.17>	3.21 <3.00>	2.98 <2.90>	
POWER SOURCE - 1Ø <3Ø>			V/Ph/Hz	220-240 / 1 / 50 <380-415 / 3 / 50>			
INDOOR UNIT	AIR FLOW		HIGH	l/s / cfm	231 / 490	297 / 630	316 / 670
			MEDIUM	l/s / cfm	193 / 410	231 / 490	297 / 630
			LOW	l/s / cfm	160 / 340	208 / 440	236 / 500
	SOUND PRESSURE LEVEL (H/M/L)			dBA	43 / 40 / 35	49 / 44 / 42	49 / 47 / 45
	UNIT DIMENSION		HEIGHT	mm / in	304 / 12.0	304 / 12.0	360 / 14.2
			WIDTH	mm / in	1062 / 41.8	1062 / 41.8	1200 / 47.2
			DEPTH	mm / in	222 / 8.7	222 / 8.7	200 / 7.9
	UNIT WEIGHT			kg / lb	16 / 35.3	16 / 35.3	17 / 37.5
OUTDOOR UNIT	SOUND PRESSURE LEVEL			dBA	52	52	54
	UNIT DIMENSION		HEIGHT	mm / in	654 / 25.7	756 / 29.8	756 / 29.8
			WIDTH	mm / in	855 / 33.7	855 / 33.7	855 / 33.7
			DEPTH	mm / in	328 / 12.9	328 / 12.9	328 / 12.9
	UNIT WEIGHT			kg / lb	59 / 130.1	62 / 136.7	68 / 149.9
	PIPE CONNECTION	TYPE		FLARE VALVE			
		SIZE	LIQUID	mm / in	6.35 / 1/4	6.35 / 1/4	9.52 / 3/8
GAS			mm / in	12.70 / 1/2	15.88 / 5/8	15.88 / 5/8	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) I) FOR M5WM 020/025 G/GR AND BELOW, SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 0.8m BELOW THE UNIT.
II) FOR M5WM 031F/030FR, SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

CEILING CASSETTE M5CK-E SERIES - R-410A

HEAT PUMP MODEL			INDOOR UNIT		M5CK 020ER*	M5CK 025ER*	M5CK 028ER*
			OUTDOOR UNIT		M5LC 020CR	M5LC 025CR	M5LC 028CR
NOMINAL COOLING CAPACITY				Btu/h	18500	22000	27000
				W	5400	6400	7900
NOMINAL HEATING CAPACITY				Btu/h	18500	24000	28000
				W	5400	7000	8200
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		COOLING	W	Not Available		
			HEATING	W			
	EER- 1Ø <3Ø>		W/W	3.21	3.01	3.01	
	COP- 1Ø <3Ø>		W/W	3.41	3.21	3.21	
COOLING ONLY MODEL			INDOOR UNIT		M5CK 020E*	M5CK 025E*	M5CK 028E*
			OUTDOOR UNIT		M5LC 020C	M5LC 025C	M5LC 028C
NOMINAL CAPACITY				Btu/h	18500	22000	27000
				W	5400	6400	7900
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		W	Not Available			
			W/W				
POWER SOURCE- 1Ø <3Ø>			V/Ph/Hz	220 - 240 / 1 / 50			
INDOOR UNIT	AIR FLOW	HIGH	l/s / CFM	600	680	860	
		MEDIUM	l/s / CFM	530	600	730	
		LOW	l/s / CFM	430	530	620	
		SUPER LOW	l/s / CFM	400	430	530	
	SOUND PRESSURE LEVEL (H/M/L/SL)		dBA	34 / 31 / 28 / 27	37 / 34 / 31 / 30	41 / 38 / 35 / 32	
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm / in	265 (325) / 10.4 (12.8)			
		WIDTH	mm / in	820 (930) / 32.3 (36.6)			
		DEPTH	mm / in	820 (930) / 32.3 (36.6)			
WEIGHT (UNIT + PANEL)			kg / lb	Not Available			
SOUND PRESSURE LEVEL			dBA	51	52	54	
OUTDOOR UNIT	UNIT DIMENSION	HEIGHT	mm / in	654 / 25.7	756 / 29.8		
		WIDTH	mm / in	855 / 33.7	855 / 33.7		
		DEPTH	mm / in	328 / 12.9	328 / 12.9		
	UNIT WEIGHT		kg / lb	59 / 130.1	62 / 136.7	65 / 143.3	
	PIPE CONNECTION	TYPE		FLARE VALVE			
		SIZE	LIQUID GAS	mm / in	6.35 / ¹ / ₄	6.35 / ¹ / ₇	9.52 / ³ / ₈
			mm / in	12.70 / ¹ / ₂	15.88 / ⁵ / ₈	15.88 / ⁵ / ₈	

* TENTATIVE SPECIFICATION ONLY

CEILING CASSETTE M5CK-E SERIES - R-410A

HEAT PUMP MODEL			INDOOR UNIT		M5CK 040ER*		M5CK 050ER*
			OUTDOOR UNIT		M5LC 035CR	M5LC 040CR	M5LC 050CR
NOMINAL COOLING CAPACITY				Btu/h	< 33500 >	< 39000 >	< 47000 >
				W	< 9800 >	< 11400 >	< 13800 >
NOMINAL HEATING CAPACITY				Btu/h	< 34000 >	< 39000 >	< 47000 >
				W	< 10000 >	< 11400 >	< 13800 >
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		COOLING	W	Not Available		
			HEATING	W			
	EER- 1Ø <3Ø>			W/W	< 3.01 >	< 3.01 >	< 3.01 >
				W/W	< 3.21 >	< 3.21 >	< 3.21 >
COOLING ONLY MODEL			INDOOR UNIT		M5CK 040E*		M5CK 050E*
			OUTDOOR UNIT		M5LC 035C	M5LC 040C	M5LC 050C
NOMINAL CAPACITY				Btu/h	< 33500 >	< 39000 >	< 47000 >
				W	< 9800 >	< 11400 >	< 13800 >
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>			W	Not Available		
				W/W			
POWER SOURCE- 1Ø <3Ø>				V/Ph/Hz	<380 - 415 / 3 / 50>		
INDOOR UNIT	AIR FLOW		HIGH	l/s / CFM	900	1050	
			MEDIUM	l/s / CFM	745	900	
			LOW	l/s / CFM	640	810	
			SUPER LOW	l/s / CFM	525	670	
	SOUND PRESSURE LEVEL (H/M/L/SL)			dBA	44 / 41 / 38 / 36		47 / 44 / 43 / 41
	UNIT DIMENSION () - WITH PANEL		HEIGHT	mm / in	300 (360) / 11.8 (14.2)		
			WIDTH	mm / in	820 (930) / 32.3 (36.6)		
			DEPTH	mm / in	820 (930) / 32.3 (36.6)		
WEIGHT (UNIT + PANEL)			kg / lb	Not Available			
SOUND PRESSURE LEVEL				dBA	58	58	58
OUTDOOR UNIT	UNIT DIMENSION		HEIGHT	mm / in	850 / 33.5		
			WIDTH	mm / in	1030 / 40.6		
			DEPTH	mm / in	400 / 15.7		
	UNIT WEIGHT			kg / lb	95 / 209.4	100 / 220.5	105 / 231.5
	PIPE CONNECTION		TYPE		FLARE VALVE		
SIZE			LIQUID GAS	mm / in mm / in	9.52 / ³ / ₈ 15.88 / ⁵ / ₈	9.52 / ³ / ₈ 15.88 / ⁵ / ₈	9.52 / ³ / ₈ 15.88 / ⁵ / ₈

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

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

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

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) FOR M5CK 020/025 E/ER, SOUND PRESSURE LEVEL ARE MEASURED IN AN ANECHOIC CHAMBER, ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

FOR M5CK 028/040/050 E/ER, SOUND PRESSURE LEVEL ARE MEASURED IN AN ANECHOIC CHAMBER, ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW FASCIA.

5) TENTATIVE SPECIFICATION IS PROVIDED FOR REFERENCE ONLY. ACTUAL DATA WILL BE AVAILABLE ONCE THE MODEL LAUNCHED

* TENTATIVE SPECIFICATION ONLY

CEILING CASSETTE M5CK-A SERIES - R-410A

HEATPUMP MODEL			INDOOR UNIT		M5CK 020AR	M5CK 025AR	M5CK 030AR
			OUTDOOR UNIT		M5LC 020CR	M5LC 025CR	M5LC 028CR
NOMINAL COOLING CAPACITY - 1Ø <3Ø>			Btu/h	18500 <18500>	20000 <22860>	28000 <27000>	
			W	5420 <5420>	5860 <6700>	8210 <7910>	
NOMINAL HEATING CAPACITY - 1Ø <3Ø>			Btu/h	18500 <18500>	21500 <23200>	28000 <27000>	
			W	5420 <5420>	6300 <6800>	8210 <7910>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		COOLING	W	1703 <1778>	2003 <2260>	2680 <2729>
			HEATING	W	1563 <1573>	2033 <2153>	2150 <2381>
	EER - 1Ø <3Ø>		W/W	3.18 <3.05>	2.93 <2.96>	3.06 <2.90>	
	COP - 1Ø <3Ø>		W/W	3.47 <3.45>	3.10 <3.16>	3.82 <3.32>	
COOLING ONLY MODEL			INDOOR UNIT		M5CK 020A	M5CK 025A	M5CK 030A
			OUTDOOR UNIT		M5LC 020C	M5LC 025C	M5LC 028C
NOMINAL CAPACITY - 1Ø <3Ø>			Btu/h	18500 <18500>	20000 <22860>	28000 <27000>	
			W	5420 <5420>	5860 <6700>	8210 <7910>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		W	1703 <1778>	2003 <2260>	2680 <2729>	
	EER - 1Ø <3Ø>		W/W	3.18 <3.05>	2.93 <2.96>	3.06 <2.90>	
POWER SOURCE - 1Ø <3Ø>			V/Ph/Hz		220-240/1/50 <380-415/3/50>		
INDOOR UNIT	AIR FLOW	HIGH	l/s / CFM	349 / 740	368 / 780	415 / 880	
		MEDIUM	l/s / CFM	297 / 630	311 / 660	349 / 740	
		LOW	l/s / CFM	283 / 600	283 / 600	321 / 680	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	42 / 39 / 37	45 / 42 / 40	49 / 45 / 43	
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (378) / 13.2 (14.9)			
		WIDTH	mm/in	820 (930) / 32.2 (36.6)			
		DEPTH	mm/in	820 (930) / 32.2 (36.6)			
WEIGHT (UNIT + PANEL)		kg/lb	31 + 4 / 68.3 + 8.8	32 + 4 / 70.5 + 8.8	35 + 4 / 77.2 + 8.8		
OUTDOOR UNIT	SOUND PRESSURE LEVEL		dBA	52	52	54	
	UNIT DIMENSION	HEIGHT	mm/in	654 / 25.7	756 / 29.8		
		WIDTH	mm/in	855 / 33.7	855 / 33.7		
		DEPTH	mm/in	328 / 12.9	328 / 12.9		
	UNIT WEIGHT		kg/lb	59 / 130.1	62 / 136.7	68 / 149.9	
	PIPE CONNECTION	TYPE		FLARE VALVE			
		SIZE	LIQUID GAS	mm/in mm/in	6.35 / 1/4 12.70 / 1/2	6.35 / 1/4 15.88 / 5/8	9.52 / 3/8 15.88 / 5/8

CEILING CASSETTE M5CK-A SERIES - R-410A

HEATPUMP MODEL			INDOOR UNIT		M5CK 040AR		M5CK 050AR
			OUTDOOR UNIT		M5LC 035CR	M5LC 040CR	M5LC 050CR
NOMINAL COOLING CAPACITY - 1Ø <3Ø>			Btu/h	33500 <33500>	40000 <40000>	<46000>	
			W	9820 <9820>	11720 <11720>	<13480>	
NOMINAL HEATING CAPACITY - 1Ø <3Ø>			Btu/h	35000 <35000>	40000 <40000>	<48000>	
			W	10260 <10260>	11720 <11720>	<14070>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>	COOLING	W	3050 <2950>	3900 <3900>	<4520>	
		HEATING	W	2800 <2750>	3550 <3550>	<4300>	
	EER - 1Ø <3Ø>		W/W	3.22 <3.33>	3.01 <3.01>	<2.98>	
	COP - 1Ø <3Ø>		W/W	3.66 <3.73>	3.30 <3.30>	<3.27>	
COOLING ONLY MODEL		INDOOR UNIT		M5CK 040A		M5CK 050A	
		OUTDOOR UNIT		M5LC 035C	M5LC 040C	M5LC 050C	
NOMINAL CAPACITY - 1Ø <3Ø>			Btu/h	33500 <33500>	40000 <40000>	<46000>	
			W	9820 <9820>	11720 <11720>	<13480>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		W	3050 <2950>	3900 <3900>	<4520>	
	EER - 1Ø <3Ø>		W/W	3.22 <3.33>	3.01 <3.01>	<2.98>	
POWER SOURCE - 1Ø <3Ø>			V/Ph/Hz	220-240/1/50 <380-415/3/50>			
INDOOR UNIT	AIR FLOW	HIGH	l/s / CFM	467 / 990		491 / 1040	
		MEDIUM	l/s / CFM	406 / 860		448 / 950	
		LOW	l/s / CFM	359 / 760		411 / 870	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	51 / 48 / 46		53 / 52 / 50	
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (378) / 13.2 (14.9)			
		WIDTH	mm/in	820 (930) / 32.2 (36.6)			
		DEPTH	mm/in	820 (930) / 32.2 (36.6)			
WEIGHT (UNIT + PANEL)		kg/lb	38 + 4 / 83.8 + 8.8		40 + 4 / 88.2 + 8.8		
OUTDOOR UNIT	SOUND PRESSURE LEVEL		dBA	58	58	60	
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.5			
		WIDTH	mm/in	1030 / 40.6			
		DEPTH	mm/in	400 / 15.7			
	UNIT WEIGHT		kg/lb	95 / 209.4	100 / 220.5	105 / 231.5	
	PIPE CONNECTION	TYPE		FLARE VALVE			
		SIZE	LIQUID GAS	mm/in mm/in	9.52 / ³ / ₈ 15.88 / ⁵ / ₈	9.52 / ³ / ₈ 15.88 / ⁵ / ₈	9.52 / ³ / ₈ 15.88 / ⁵ / ₈

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) FOR M5CK 020/025 A/AR, SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.
FOR M5CK 030/040/050 A/AR, SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW FASCIA.

CEILING CASSETTE M5CK-C SERIES - R-410A

HEATPUMP MODEL			INDOOR UNIT		M5CK 010CR	M5CK 015CR	M5CK 020CR	
			OUTDOOR UNIT		M5LC 010CR	M5LC 015CR	M5LC 020CR	
NOMINAL COOLING CAPACITY - 1Ø <3Ø>				Btu/h	9500	12500	17500 <18000>	
				W	2780	3660	5129 <5280>	
NOMINAL HEATING CAPACITY - 1Ø <3Ø>				Btu/h	9500	11500	17500 <18500>	
				W	2780	3370	5129 <5420>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		COOLING	W	900	1300	1690 <1724>	
			HEATING	W	830	1020	1710 <1494>	
	EER - 1Ø <3Ø>		W/W	3.09	2.82	3.03 <3.06>		
	COP - 1Ø <3Ø>		W/W	3.35	3.30	3.00 <3.63>		
COOLING ONLY MODEL			INDOOR UNIT		M5CK 010C	M5CK 015C	M5CK 020C	
			OUTDOOR UNIT		M5LC 010C	M5LC 015C	M5LC 020C	
NOMINAL CAPACITY - 1Ø <3Ø>				Btu/h	9500	12500	17500 <18000>	
				W	2780	3660	5129 <5280>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>			W	900	1300	1690 <1724>	
				W/W	3.09	2.82	3.03 <3.06>	
POWER SOURCE - 1Ø <3Ø>				V/Ph/Hz	220 - 240 / 1 / 50		220-240/1/50 <380-415/3/50>	
INDOOR UNIT	AIR FLOW	HIGH	l/s / CFM	189 / 400		194 / 410	212 / 450	
		MEDIUM	l/s / CFM	184 / 390		184 / 390	203 / 430	
		LOW	l/s / CFM	175 / 370		170 / 360	194 / 410	
	SOUND PRESSURE LEVEL (H/M/L)			dBA	44 / 43 / 42		44 / 42 / 41	47 / 46 / 44
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	250 (295) / 9.8 (11.6)				
		WIDTH	mm/in	570 (640) / 22.4 (25.2)				
		DEPTH	mm/in	570 (640) / 22.4 (25.2)				
UNIT WEIGHT (UNIT + PANEL)			kg/lb	22 + 2 / 48.5 + 4.4		23.2 / 50.7 + 4.4	23 + 2 / 50.7 + 4.4	
OUTDOOR UNIT	SOUND PRESSURE LEVEL			dBA	46		49	52
	UNIT DIMENSION	HEIGHT	mm/in	540 / 21.3		654 / 25.7		
		WIDTH	mm/in	700 / 27.6		855 / 33.7		
		DEPTH	mm/in	250 / 9.8		328 / 12.9		
	UNIT WEIGHT			kg/lb	31 / 72.75		35 / 77.16	59 / 130.1
	PIPE CONNECTION	TYPE			FLARE VALVE			
		SIZE	LIQUID	mm/in	6.35 / 1/4		6.35 / 1/4	
GAS	mm/in		9.52 / 3/8		12.70 / 1/2		12.70 / 1/2	

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

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

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

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

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

CEILING CONVERTIBLE M5CM-E SERIES - R-410A

HEATPUMP MODEL				INDOOR UNIT		M5CM 015ER	M5CM 020ER	M5CM 025ER	M5CM 028ER
				OUTDOOR UNIT		M5LC 015CR	M5LC 020CR	M5LC 025CR	M5LC 028CR
NOMINAL COOLING CAPACITY - 1Ø <3Ø>				Btu/h	12900	17500 <18100>	20000 <22860>	27000 <26000>	
				W	3780	5130 <5300>	5860 <6700>	7900 <7620>	
NOMINAL HEATING CAPACITY - 1Ø <3Ø>				Btu/h	11800	18500 <18770>	22000 <23200>	27500 <26500>	
				W	3460	5420 <5500>	6450 <6800>	8050 <7770>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		COOLING	W	1280	1723 <1757>	1973 <2231>	2754 <2715>	
			HEATING	W	1130	1493 <1527>	2003 <2124>	2455 <2378>	
	EER - 1Ø <3Ø>		W/W	2.95	2.98 <3.02>	2.97 <3.00>	2.87 <2.81>		
	COP - 1Ø <3Ø>		W/W	3.06	3.63 <3.60>	3.22 <3.20>	3.28 <3.27>		
COOLING ONLY MODEL			INDOOR UNIT		M5CM 015E	M5CM 020E	M5CM 025E	M5CM 028E	
			OUTDOOR UNIT		M5LC 015C	M5LC 020C	M5LC 025C	M5LC 028C	
NOMINAL CAPACITY - 1Ø <3Ø>				Btu/h	12900	17500 <18100>	20000 <22860>	27000 <26000>	
				W	3780	5130 <5300>	5860 <6700>	7900 <7620>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>			W	1280	1723 <1757>	1973 <2231>	2754 <2715>	
				W/W	2.95	2.98 <3.02>	2.97 <3.00>	2.87 <2.81>	
POWER SOURCE - 1Ø <3Ø>				V/Ph/Hz	220 - 240 / 1 / 50 220-240/1/50 <380-415/3/50>				
INDOOR UNIT	AIR FLOW		HIGH	I/s / CFM	240 / 508	245 / 520	274 / 580	293 / 620	
			MEDIUM	I/s / CFM	182 / 386	217 / 460	250 / 530	269 / 570	
			LOW	I/s / CFM	165 / 350	192 / 406	231 / 490	245 / 520	
	SOUND PRESSURE LEVEL (H/M/L)			dBA	48 / 43 / 41	48 / 46 / 43	50 / 47 / 46	51 / 48 / 47	
	UNIT DIMENSION		HEIGHT	mm/in	218 / 8.58				
			WIDTH	mm/in	1080 / 42.52				
			DEPTH	mm/in	630 / 24.80				
UNIT WEIGHT			kg/lb	26 / 57	27 / 60	27 / 60	28 / 62		
OUTDOOR UNIT	SOUND PRESSURE LEVEL			dBA	49	52	52	54	
	UNIT DIMENSION		HEIGHT	mm/in	540 / 21.3	654 / 25.7	756 / 29.8		
			WIDTH	mm/in	700 / 27.6	855 / 33.7	855 / 33.7		
			DEPTH	mm/in	250 / 9.8	328 / 12.9	328 / 12.9		
	UNIT WEIGHT			kg/lb	32 / 70.5	59 / 130.1	62 / 136.7	68 / 149.9	
	PIPE CONNECTION		TYPE	FLARE VALVE					
SIZE			LIQUID GAS	mm/in	6.35 / 1/4 12.70 / 1/2	6.35 / 1/4 12.70 / 1/2	6.35 / 1/4 15.88 / 5/8	9.52 / 3/8 15.88 / 5/8	

CEILING CONVERTIBLE M5CM-E SERIES - R-410A

HEATPUMP MODEL			INDOOR UNIT		M5CM 035ER*		M5CM 040ER*		M5CM 050ER*	
			OUTDOOR UNIT		M5LC 035CR		M5LC 040CR		M5LC 050CR	
NOMINAL COOLING CAPACITY - 1 Ø <3Ø>				Btu/h	<33000>		<40000>		<48000>	
				W	<9672>		<11723>		<14070>	
NOMINAL HEATING CAPACITY - 1 Ø <3Ø>				Btu/h	<35000>		<41000>		<48000>	
				W	<10258>		<12016>		<14070>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1 Ø <3Ø>		COOLING	W	<2910>		<3960>		N/A	
			HEATING	W	<3280>		<3640>		N/A	
	EER - 1 Ø <3Ø>			W/W	<3.32>		<2.96>		<2.80>	
	COP - 1 Ø <3Ø>			W/W	<3.12>		<3.30>		<3.00>	
COOLING ONLY MODEL			INDOOR UNIT		M5CM 035E*		M5CM 040E*		M5CM 050E*	
			OUTDOOR UNIT		M5LC 035C		M5LC 040C		M5LC 050C	
NOMINAL CAPACITY - 1 Ø <3Ø>				Btu/h	<33000>		<40000>		<48000>	
				W	<9672>		<11723>		<14070>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1 Ø <3Ø>			W	<2910>		<3960>		N/A	
	EER - 1 Ø <3Ø>			W/W	<3.32>		<2.96>		<2.80>	
POWER SOURCE - 1 Ø <3Ø>				V/Ph/Hz	<380-415/3/50>					
INDOOR UNIT	AIR FLOW		HIGH	I/s / CFM	396 / 840		519 / 1100		491 / 1040	
			MEDIUM	I/s / CFM	356 / 755		464 / 983		448 / 950	
			LOW	I/s / CFM	316 / 670		414 / 877		387 / 820	
	SOUND PRESSURE LEVEL (H/M/L)			dBA	47 / 44 / 41		51 / 48 / 45		53 / 51 / 49	
	UNIT DIMENSION		HEIGHT	mm/in	242 / 9.50		242 / 9.50		242 / 9.50	
			WIDTH	mm/in	1332 / 52.40		1550 / 61.00		1550 / 61.00	
			DEPTH	mm/in	633 / 24.9		633 / 24.90		633 / 24.90	
UNIT WEIGHT			kg/lb	Not Available						
OUTDOOR UNIT	SOUND PRESSURE LEVEL			dBA	58				60	
	UNIT DIMENSION		HEIGHT	mm/in	850 / 33.46					
			WIDTH	mm/in	1030 / 40.55					
			DEPTH	mm/in	400 / 15.75					
	UNIT WEIGHT			kg/lb	95 / 209.4		100 / 220.5		105 / 231.5	
	PIPE CONNECTION		TYPE		FLARE VALVE					
SIZE			LIQUID GAS	mm/in	9.52 / 3/8		9.52 / 3/8		9.52 / 3/8	
				mm/in	15.88 / 5/8		15.88 / 5/8		15.88 / 5/8	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.
5) TENTATIVE SPECIFICATION IS PROVIDED FOR REFERENCE ONLY. ACTUAL DATA WILL BE AVAILABLE ONCE THE MODEL LAUNCHED

* TENTATIVE SPECIFICATION ONLY

CEILING CONVERTIBLE M5CM-D/C SERIES - R-410A

HEATPUMP MODEL			INDOOR UNIT		M5CM 040DR		M5CM 050DR	M5CM 062CR
			OUTDOOR UNIT		M5LC 035CR	M5LC 040CR	M5LC 050CR	M5LC 061CR
NOMINAL COOLING CAPACITY - 1Ø <3Ø>			Btu/h	33000 <33000>	38500 <38500>	<43000>	<55000>	
			W	9670 <9670>	11280 <11280>	<12600>	<16119>	
NOMINAL HEATING CAPACITY - 1Ø <3Ø>			Btu/h	33000 <33000>	39000 <39000>	<46000>	<55000>	
			W	9670 <9670>	11430 <11430>	<13480>	<16119>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		COOLING	W	3148 <3048>	3954 <3900>	<4700>	<6414>
			HEATING	W	2958 <2848>	3470 <3450>	<4580>	<6349>
	EER - 1Ø <3Ø>		W/W	3.07 <3.17>	2.85 <2.89>	<2.68>	<2.51>	
	COP - 1Ø <3Ø>		W/W	3.27 <3.40>	3.29 <3.31>	<2.94>	<2.54>	
COOLING ONLY MODEL			INDOOR UNIT		M5CM 040D		M5CM 050D	M5CM 062C
			OUTDOOR UNIT		M5LC 035C	M5LC 040C	M5LC 050C	M5LC 061C
NOMINAL CAPACITY - 1Ø <3Ø>			Btu/h	33000 <33000>	38500 <38500>	<43000>	<55000>	
			W	9670 <9670>	11280 <11280>	<12600>	<16119>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		W	3148 <3048>	3954 <3900>	<4700>	<6414>	
	EER - 1Ø <3Ø>		W/W	3.07 <3.17>	2.85 <2.89>	<2.68>	<2.51>	
POWER SOURCE - 1Ø <3Ø>			V/Ph/Hz	220-240/1/50 <380-415/3/50>				
INDOOR UNIT	AIR FLOW	HIGH	l/s / CFM	477 / 1010		491 / 1040	732 / 1550	
		MEDIUM	l/s / CFM	420 / 890		448 / 950	623 / 1320	
		LOW	l/s / CFM	368 / 780		387 / 820	472 / 1000	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	54 / 53 / 52		54 / 53 / 52	56 / 53 / 46	
	UNIT DIMENSION	HEIGHT	mm/in	249 / 9.8		249 / 9.8	285 / 11.2	
		WIDTH	mm/in	1714 / 67.5		1714 / 67.5	1903 / 74.9	
		DEPTH	mm/in	670 / 26.4		670 / 26.4	680 / 26.8	
	UNIT WEIGHT		kg/lb	70 / 154.3		70 / 154.3	85 / 187.4	
OUTDOOR UNIT	SOUND PRESSURE LEVEL		dBA	58	58	60	65	
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.5			850 / 33.5	
		WIDTH	mm/in	1030 / 40.6			1030 / 40.6	
		DEPTH	mm/in	400 / 15.7			460 / 18.1	
	UNIT WEIGHT		kg/lb	95 / 209.4	100 / 220.5	105 / 231.5	108 / 238.1	
	PIPE CONNECTION	TYPE	FLARE VALVE					
SIZE		LIQUID GAS	mm/in	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8	
			mm/in	15.88 / 5/8	15.88 / 5/8	15.88 / 5/8	19.05 / 3/4	

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

CEILING CONCEALED M5CC-C SERIES - R-410A

HEATPUMP MODEL			INDOOR UNIT		M5CC 010CR		M5CC 015CR		M5CC 020CR		M5CC 025CR	
			OUTDOOR UNIT		M5LC 010CR		M5LC 015CR		M5LC 020CR		M5LC 025CR	
NOMINAL COOLING CAPACITY - 1Ø <3Ø>				Btu/h	9500		12500		18000 <18000>		21000 <22860>	
				W	2780		3660		5280 <5280>		6155 <6700>	
NOMINAL HEATING CAPACITY - 1Ø <3Ø>				Btu/h	9500		12000		18500 <18500>		22000 <23200>	
				W	2780		3520		5420 <5420>		6450 <6800>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		COOLING	W	961		1297		1757 <1791>		2003 <2274>	
			HEATING	W	813		1147		1597 <1561>		1953 <2167>	
	EER - 1Ø <3Ø>		W/W	2.96		2.91		3.13 <3.07>		3.15 <3.02>		
	COP - 1Ø <3Ø>		W/W	3.52		3.18		3.55 <3.64>		3.39 <3.22>		
COOLING ONLY MODEL			INDOOR UNIT		M5CC 010C		M5CC 015C		M5CC 020C		M5CC 025C	
			OUTDOOR UNIT		M5LC 010C		M5LC 015C		M5LC 020C		M5LC 025C	
NOMINAL CAPACITY - 1Ø <3Ø>				Btu/h	9500		12500		18000 <18000>		21000 <22860>	
				W	2780		3660		5280 <5280>		6155 <6700>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>			W	961		1297		1757 <1791>		2003 <2274>	
	EER - 1Ø <3Ø>			W/W	2.96		2.91		3.13 <3.07>		3.15 <3.02>	
POWER SOURCE - 1Ø <3Ø>				V/Ph/Hz	220 - 240 / 1 / 50				220-240/1/50 <380-415/3/50>			
INDOOR UNIT	AIR FLOW	HIGH	l/s / CFM	142 / 300		241 / 510		330 / 700		345 / 730		
		MEDIUM	l/s / CFM	123 / 260		208 / 440		321 / 680		340 / 720		
		LOW	l/s / CFM	104 / 220		170 / 360		293 / 620		274 / 580		
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa (in.wg.)	49 / 39 / 29 (0.20 / 0.16 / 0.12)		49 / 39 / 20 (0.20 / 0.16 / 0.08)		64 / 58 / 34 (0.30 / 0.2 / 0.1)		55 / 39 / 29 (0.2 / 0.2 / 0.1)	
	SOUND PRESSURE LEVEL (H/M/L)			dBA	33 / 30 / 26		37 / 34 / 29		38 / 36 / 34		40 / 39 / 36	
	UNIT DIMENSION	HEIGHT	mm/in	261 / 10.28		261 / 10.28		261 / 10.28		261 / 10.28		
		WIDTH	mm/in	765 / 30.12		905 / 35.63		1065 / 41.93		1200 / 47.24		
		DEPTH	mm/in	411 / 16.18		411 / 16.18		411 / 16.18		411 / 16.18		
WEIGHT			kg/lb	17 / 37.5		21 / 46.3		22 / 48.5		25 / 55.1		
OUTDOOR UNIT	SOUND PRESSURE LEVEL			dBA	46		49		52		52	
	UNIT DIMENSION	HEIGHT	mm/in	540 / 21.3		654 / 25.7		756 / 29.8				
		WIDTH	mm/in	700 / 27.6		855 / 33.7		855 / 33.7				
		DEPTH	mm/in	250 / 9.8		328 / 12.9		328 / 12.9				
	UNIT WEIGHT			kg/lb	32 / 70.5		59 / 130.1		62 / 136.7			
	PIPE CONNECTION	TYPE				FLARE VALVE		FLARE VALVE		FLARE VALVE		
SIZE		LIQUID GAS	mm/in	6.35 / 1/4 9.52 / 3/8		6.35 / 1/4 12.70 / 1/2		6.35 / 1/4 12.70 / 1/2		6.35 / 1/4 15.88 / 5/8		

CEILING CONCEALED M5CC-C SERIES - R-410A

HEATPUMP MODEL			INDOOR UNIT		M5CC 028CR		M5CC 038CR		M5CC 050CR		M5CC 060CR			
			OUTDOOR UNIT		M5LC 028CR		M5LC 035CR		M5LC 040CR		M5LC 050CR		M5LC 061CR	
NOMINAL COOLING CAPACITY - 1Ø <3Ø>				Btu/h	26000 <27000>		32000 <33000>		39000 <39000>		<45000>		<55000>	
				W	7620 <7910>		9380 <9670>		11430 <11430>		<13190>		<16120>	
NOMINAL HEATING CAPACITY - 1Ø <3Ø>				Btu/h	26000 <28000>		34000 <36000>		41000 <41000>		<47000>		<55000>	
				W	7620 <8210>		9960 <10550>		12020 <12020>		<13770>		<16120>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		COOLING	W	2892 <2876>		3287 <3427>		4287 <4287>		<4600>		<5360>	
			HEATING	W	2429 <2528>		2987 <3137>		3937 <3937>		<4040>		<4730>	
	EER - 1Ø <3Ø>		W/W	2.73 <2.85>		3.07 <3.03>		2.82 <2.82>		<2.87>		<3.01>		
	COP - 1Ø <3Ø>		W/W	3.27 <3.38>		3.62 <3.64>		3.25 <3.25>		<3.41>		<3.41>		
COOLING ONLY MODEL			INDOOR UNIT		M5CC 028C		M5CC 038C		M5CC 050C		M5CC 060C			
			OUTDOOR UNIT		M5LC 028C		M5LC 035C		M5LC 040C		M5LC 050C		M5LC 061C	
NOMINAL CAPACITY - 1Ø <3Ø>				Btu/h	26000 <27000>		32000 <33000>		39000 <39000>		<45000>		<55000>	
				W	7620 <7910>		9380 <9670>		11430 <11430>		<13190>		<16120>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>			W	2892 <2876>		3287 <3427>		4287 <4287>		<4600>		<5360>	
	EER - 1Ø <3Ø>			W/W	2.73 <2.85>		3.07 <3.03>		2.82 <2.82>		<2.87>		<3.01>	
POWER SOURCE - 1Ø <3Ø>				V/Ph/Hz	220-240/1/50 <380-415/3/50>									
INDOOR UNIT	AIR FLOW	SUPER HIGH	I/s / CFM	401 / 850		604 / 1280		675 / 1430		812 / 1720				
		HIGH	I/s / CFM	382 / 810		547 / 1160		623 / 1320		732 / 1550				
		MEDIUM	I/s / CFM	363 / 770		496 / 1050		580 / 1230		632 / 1340				
		LOW	I/s / CFM	335 / 710		434 / 920		533 / 1130		552 / 1170				
	EXTERNAL STATIC PRESSURE (SH/H/M/L)			Pa (in.wg.)	98 / 78 / 68 / 59 (0.39 / 0.31 / 0.28 / 0.24)		118 / 96 / 78 / 61 (0.47 / 0.39 / 0.31 / 0.24)		147 / 126 / 109 / 92 (0.59 / 0.50 / 0.44 / 0.37)		147 / 120 / 90 / 69 (0.59 / 0.48 / 0.36 / 0.28)			
	SOUND PRESSURE LEVEL (SH/H/M/L)			dBA	44 / 41 / 38 / 34		52 / 49 / 48 / 45		54 / 53 / 52 / 51		54 / 52 / 50 / 46			
	UNIT DIMENSION	HEIGHT	mm/in	285 / 11.22		305 / 12.0		378 / 14.9		378 / 14.9				
		WIDTH	mm/in	1007 / 39.65		1302 / 51.3		1299 / 51.1		1499 / 59.0				
DEPTH		mm/in	600 / 23.62		638 / 25.1		541 / 21.3		541 / 21.3					
OUTDOOR UNIT	WEIGHT			kg/lb	38 / 84		41 / 90		54 / 119		62 / 137			
	SOUND PRESSURE LEVEL			dBA	54		58		60		65			
	UNIT DIMENSION	HEIGHT	mm/in	756 / 29.8		850 / 33.46		850 / 33.46		850 / 33.46				
		WIDTH	mm/in	855 / 33.7		1030 / 40.55		1030 / 40.55		1030 / 40.55				
		DEPTH	mm/in	328 / 12.9		400 / 15.75		400 / 15.75		460 / 18.1				
	UNIT WEIGHT			kg/lb	68 / 149.9		95 / 209.4		100 / 220.5		105 / 231.5		108 / 238.1	
PIPE CONNECTION		TYPE			FLARE VALVE		FLARE VALVE		FLARE VALVE		FLARE VALVE			
		SIZE	LIQUID GAS	mm/in	9.52 / 3/8		9.52 / 3/8		9.52 / 3/8		9.52 / 3/8			
				mm/in	15.88 / 5/8		15.88 / 5/8		15.88 / 5/8		19.05 / 3/4			

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8616 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW THE CENTER OF THE UNIT.
TESTED WITH 2m DUCT LENGTH AT THE AIR DISCHARGE OUTLET AND 1m DUCT LENGTH AT THE AIR RETURN INLET.
5) EER/COP CALCULATION IS BASED ON EFFECTIVE POWER INPUT AS PER ISO 5151.

HORIZONTAL DUCTED CONDENSING UNIT M5HDC-AR SERIES - R-410A

OUTDOOR UNIT				M5HDC 020AR	M5HDC 025AR
SOUND PRESSURE LEVEL			dBA	46	47
UNIT DIMENSION		HEIGHT	mm/in	436 / 17.2	
		WIDTH	mm/in	1240 / 48.8	
		DEPTH	mm/in	586 / 23.1	
UNIT WEIGHT			kg	72	81
PIPE CONNECTION	TYPE			FLARE VALVE	
	SIZE	LIQUID	mm/in	6.35 / 1/4	6.35 / 1/4
		GAS	mm/in	12.7 / 1/2	15.88 / 5/8

WALL MOUNTED M5WM-G SERIES - R-410A

HEATPUMP MODEL		INDOOR UNIT		M5WM 020GR	M5WM 025GR
		OUTDOOR UNIT		M5HDC 020AR	M5HDC 025AR
NOMINAL COOLING CAPACITY			Btu/h	18300	24300
			W	5363	7122
NOMINAL HEATING CAPACITY			Btu/h	18500	23500
			W	5442	6887
50 Hz	NOMINAL TOTAL INPUT POWER	COOLING	W	2297	2930
		HEATING	W	2067	2720
	EER		W/W	2.33	2.43
	COP		W/W	2.63	2.53
POWER SOURCE			V/Ph/Hz	220 - 240 / 1 / 50	
INDOOR UNIT	AIR FLOW		cfm / L/s	490 / 232	630 / 298
	SOUND PRESSURE LEVEL (H/M/L)		dBA	43 / 40 / 35	49 / 44 / 42
	UNIT DIMENSION	HEIGHT	mm/in	304 / 12.0	
		WIDTH	mm/in	1062 / 41.8	
		DEPTH	mm/in	222 / 8.7	
	WEIGHT		kg	16 / 35.27	

CEILING CONCEALED M5CC-C SERIES - R-410A

HEATPUMP MODEL			INDOOR UNIT		M5CC 020CR		M5CC 025CR		
			OUTDOOR UNIT		M5HDC 020AR		M5HDC 025AR		
NOMINAL COOLING CAPACITY				Btu/h	18300		24300		
				W	5360		7120		
NOMINAL HEATING CAPACITY				Btu/h	18500		23500		
				W	5420		6890		
50 Hz	NOMINAL TOTAL INPUT POWER		COOLING	W	2350		2970		
			HEATING	W	2120		2760		
	EER		W/W		2.35		2.45		
	COP		W/W		2.64		2.55		
POWER SOURCE				V/Ph/Hz	220 - 240 / 1 / 50				
INDOOR UNIT	AIR FLOW	HIGH	l/s / CFM	330 / 700		345 / 730			
		MEDIUM	l/s / CFM	321 / 680		340 / 720			
		LOW	l/s / CFM	293 / 620		274 / 580			
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa (in.wg.)	64 / 58 / 34 (0.26 / 0.24 / 0.14)		55 / 39 / 29 (0.22 / 0.16 / 0.12)		
	SOUND PRESSURE LEVEL (H/M/L)			dBA	38 / 36 / 34		40 / 39 / 36		
	UNIT DIMENSION	HEIGHT	mm/in	261 / 10.28		261 / 10.28			
		WIDTH	mm/in	1065 / 41.93		1200 / 47.24			
		DEPTH	mm/in	411 / 16.18		411 / 16.18			
	WEIGHT			kg	22		25		

EER/COP CALCULATION IS BASED ON EFFECTIVE POWER INPUT AS PER ISO 5151.

CEILING CASSETTE M5CK-A SERIES - R-410A

HEATPUMP MODEL		INDOOR UNIT		M5CK 020AR	M5CK 025AR
		OUTDOOR UNIT		M5HDC 020AR	M5HDC 025AR
NOMINAL COOLING CAPACITY			Btu/h	18700	24500
			W	5481	7180
NOMINAL HEATING CAPACITY			Btu/h	18800	23800
			W	5510	6975
50 Hz	NOMINAL TOTAL INPUT POWER	COOLING	W	2336	2949
		HEATING	W	2106	2739
	EER		W/W	2.35	2.43
	COP		W/W	2.62	2.55
POWER SOURCE			V/Ph/Hz	220 - 240 / 1 / 50	
INDOOR UNIT	AIR FLOW		cfm / L/s	770 / 363	810 / 382
	SOUND PRESSURE LEVEL (H/M/L)		dBA	42 / 39 / 37	45 / 42 / 40
	UNIT DIMENSION () - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)	
		WIDTH	mm/in	820 (930) / 32.2 (36.6)	
		DEPTH	mm/in	820 (930) / 32.2 (36.6)	
	WEIGHT (UNIT + PANEL)		kg	31 + 4	32 + 4

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

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

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

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

4) I) FOR M5WM, SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 0.8m BELOW THE UNIT.

II) FOR M5CC, SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8616 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW THE CENTER OF THE UNIT.

TESTED WITH 2m DUCT LENGTH AT THE AIR DISCHARGE OUTLET AND 1m DUCT LENGTH AT THE AIR RETURN INLET.

II) FOR M5CK, SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

MULTI-SPLIT M4MSD-A SERIES WITH WALL MOUNTED - R-407C

HEATPUMP MODEL			OUTDOOR UNIT		M4MSD 1010AR		M4MSD 1015AR		M4MSD 1515AR		
			INDOOR UNIT		2 x MWM 010GR		MWM 010GR	MWM 015GR	2 x MWM 015GR		
NOMINAL COOLING CAPACITY				Btu/h	2 x 9000		9000	10500		2 x 10500	
				W	2 x 2640		2640	3080		2 x 3080	
NOMINAL HEATING CAPACITY				Btu/h	2 x 9000		9000	11500		2 x 11500	
				W	2 x 2640		2640	3370		2 x 3370	
50HZ	NOMINAL POWER INPUT-COOLING		ONE UNIT RUNNING	W	996		996	1470		1470	
			TWO UNITS RUNNING	W	1916		2371		2828		
	NOMINAL POWER INPUT-HEATING		ONE UNIT RUNNING	W	994		994	1480		1480	
			TWO UNITS RUNNING	W	1786		2251		2718		
COOLING ONLY MODEL			OUTDOOR UNIT		M4MSD 1010A		M4MSD 1015A		M4MSD 1515A		
			INDOOR UNIT		2 x MWM 010G		MWM 010G	MWM 015G	2 x MWM 015G		
NOMINAL CAPACITY				Btu/h	2 x 9000		9000	12000		2 x 12000	
				W	2 x 2640		2640	3520		2 x 3520	
50 HZ	NOMINAL TOTAL INPUT POWER		ONE UNIT RUNNING	W	1037		1037	1570		1570	
			TWO UNITS RUNNING	W	1904		2437		2970		
POWER SOURCE				V/Ph/Hz	220 ~ 240 / 1 / 50						
INDOOR UNIT	AIR FLOW		HIGH	l/s / cfm	141.60 / 300		141.60 / 300	162.82 / 345		162.82 / 345	
			MEDIUM	l/s / cfm	117.99 / 250		117.99 / 250	134.51 / 285		134.51 / 285	
			LOW	l/s / cfm	94.39 / 200		94.39 / 200	103.83 / 220		103.83 / 220	
	SOUND PRESSURE LEVEL (H/M/L)			dBA	39 / 34 / 28		39 / 34 / 28	42 / 36 / 29		42 / 36 / 29	
	UNIT DIMENSION		HEIGHT	mm/in	260 / 10.2		260 / 10.2	260 / 10.2		260 / 10.2	
			WIDTH	mm/in	899 / 35.4		899 / 35.4	899 / 35.4		899 / 35.4	
			DEPTH	mm/in	198 / 7.8		198 / 7.8	198 / 7.8		198 / 7.8	
	UNIT WEIGHT			kg/lb	12 / 26.46		12 / 26.46	12 / 26.46		12 / 26.46	
OUTDOOR UNIT	SOUND PRESSURE LEVEL			dBA	56		56		56		
	UNIT DIMENSION		HEIGHT	mm/in	646 / 25.4		646 / 25.4		646 / 25.4		
			WIDTH	mm/in	840 / 33.1		840 / 33.1		840 / 33.1		
			DEPTH	mm/in	330 / 13		330 / 13		330 / 13		
	UNIT WEIGHT			kg/lb	63 / 138.89		64 / 141.1		65 / 143.3		
	PIPE CONNECTION		TYPE		FLARE VALVE						
			SIZE	LIQUID GAS	mm/in	2 x 6.35 / 2 x 1¼ 2 x 9.52 / 2 x 3⁄8		2 x 6.35 / 2 x 1¼ 9.52 / 3⁄8 12.7 / 1⁄2		2 x 6.35 / 2 x 1¼ 2 x 12.7 / 2 x 1⁄2	

MULTI-SPLIT M4MST-A SERIES WITH WALL MOUNTED - R-407C

HEATPUMP MODEL			OUTDOOR UNIT		M4MST 101010AR	M4MST 101015AR		M4MST 101515AR		M4MST 151515AR
			INDOOR UNIT		3 x MWM 010GR	2 x MWM 010GR	MWM 015GR	MWM 010GR	2 x MWM 015GR	3 x MWM 015GR
NOMINAL COOLING CAPACITY				Btu/h	3 x 9000	2 x 9000	12000	9000	2 x 12000	3 x 12000
				W	3 x 2640	2 x 2640	3520	2640	2 x 3520	3 x 3520
NOMINAL HEATING CAPACITY				Btu/h	3 x 9000	2 x 9000	11000	9000	2 x 11000	3 x 11000
				W	3 x 2640	2 x 2640	3220	2640	2 x 3220	3 x 3220
50 Hz	NOMINAL TOTAL INPUT POWER		COOLING	W	2943	3356		3769		4182
			HEATING	W	2622	2973		3324		3675
COOLING ONLY MODEL			OUTDOOR UNIT		M4MST 101010A	M4MST 101015A		M4MST 101515A		M4MST 151515A
			INDOOR UNIT		3 x MWM 010G	2 x MWM 010G	MWM 015G	MWM 010G	2 x MWM 015G	3 x MWM 015G
NOMINAL CAPACITY				Btu/h	3 x 9000	2 x 9000	12000	9000	2 x 12000	3 x 12000
				W	3 x 2640	2 x 2640	3520	2640	2 x 3520	3 x 3520
50 Hz	NOMINAL TOTAL INPUT POWER			W	2943	3356		3769		4182
POWER SOURCE				V/Ph/Hz	220 ~ 240 / 1 / 50					
INDOOR UNIT	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	141.60 / 300	162.82 / 345	141.60 / 300	162.82 / 345	162.82 / 345	
		MEDIUM	l/s / cfm	117.99 / 250	117.99 / 250	134.51 / 285	117.99 / 250	134.51 / 285	134.51 / 285	
		LOW	l/s / cfm	94.39 / 200	94.39 / 200	103.83 / 220	94.39 / 200	103.83 / 220	103.83 / 220	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	39 / 34 / 28	42 / 36 / 29	39 / 34 / 28	42 / 36 / 29	42 / 36 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	260 / 10.2	260 / 10.2	260 / 10.2	260 / 10.2	260 / 10.2	
		WIDTH	mm/in	899 / 35.4	899 / 35.4	899 / 35.4	899 / 35.4	899 / 35.4	899 / 35.4	
		DEPTH	mm/in	198 / 7.8	198 / 7.8	198 / 7.8	198 / 7.8	198 / 7.8	198 / 7.8	
	UNIT WEIGHT		kg/lb	12 / 26.46	12 / 26.46	12 / 26.46	12 / 26.46	12 / 26.46	12 / 26.46	
OUTDOOR UNIT	SOUND PRESSURE LEVEL		dBA	61 / 58	61 / 58		62 / 59		62 / 59	
	UNIT DIMENSION	HEIGHT	mm/in	631.7 / 24.9	631.7 / 24.9		631.7 / 24.9		631.7 / 24.9	
		WIDTH	mm/in	960.0 / 37.8	960.0 / 37.8		960.0 / 37.8		960.0 / 37.8	
		DEPTH	mm/in	437.0 / 17.2	437.0 / 17.2		437.0 / 17.2		437.0 / 17.2	
	UNIT WEIGHT		kg/lb	97 / 213.8	101 / 222.7		105 / 231.5		109 / 240.3	
	PIPE CONNECTION	TYPE		FLARE VALVE						
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4	3 x 6.35 / 3 x 1/4		3 x 6.35 / 3 x 1/4		3 x 6.35 / 3 x 1/4
			GAS	mm/in	3 x 9.52 / 3 x 3/8	2 x 9.52 / 2 x 3/8	12.7 / 1/2	9.52 / 3/8	2 x 12.7 / 2 x 1/2	3 x 12.7 / 3 x 1/2

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

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

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

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

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

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 0.8m BELOW THE UNIT.

CEILING CONCEALED MCC-D SERIES - R-407C

HEATPUMP MODEL		INDOOR UNIT		MCC 075DR		MCC 100DR		
		OUTDOOR UNIT		M4MC 075ER		M4MC 100ER		
NOMINAL COOLING CAPACITY			Btu/h	75000		100000		
			W	21980		29310		
NOMINAL HEATING CAPACITY			Btu/h	84000		110000		
			W	24620		32240		
50 Hz	NOMINAL TOTAL INPUT POWER	COOLING	W	7827		11040		
		HEATING	W	7827		9279		
	EER		W/W	3.12		2.80		
	COP		W/W	3.49		3.70		
COOLING ONLY MODEL		INDOOR UNIT		MCC 075D		MCC 100D		
		OUTDOOR UNIT		M4MC 075D		M4MC 100D		
NOMINAL CAPACITY			Btu/h	75000		100000		
			W	21980		29310		
50 Hz	NOMINAL TOTAL INPUT POWER		W	7827		11040		
	EER		W/W	3.12		2.80		
POWER SOURCE			V/Ph/Hz	380 - 415 / 3 / 50				
INDOOR UNIT	AIR FLOW	SUPER HIGH		l/s / CFM	1142 / 2420		1487 / 3150	
		HIGH		l/s / CFM	1156 / 2450		1477 / 3130	
		MEDIUM		l/s / CFM	944 / 2000		1340 / 2840	
		LOW		l/s / CFM	793 / 1680		1057 / 2240	
	EXTERNAL STATIC PRESSURE (SH/H/M/L)			Pa (in.wg.)	196 / 137 / 98 / 69 (0.79 / 0.55 / 0.39 / 0.28)			
	SOUND PRESSURE LEVEL (SH/H/M/L)			dBA	52 / 52 / 48 / 43		55 / 54 / 52 / 48	
	UNIT DIMENSION	HEIGHT		mm/in	430 / 16.9		430 / 16.9	
		WIDTH		mm/in	1426 / 56.1		1655 / 65.2	
		DEPTH		mm/in	826 / 32.5		826 / 32.5	
	UNIT WEIGHT			kg/lb	92 / 203		119 / 262	
OUTDOOR UNIT	SOUND PRESSURE LEVEL			dBA	64			
	UNIT DIMENSION	HEIGHT		mm/in	1041 / 40.98			
		WIDTH		mm/in	981 / 38.62			
		DEPTH		mm/in	981 / 38.62			
	UNIT WEIGHT			kg/lb	170 / 374		184 / 405	
	PIPE CONNECTION	TYPE			BRAZING			
SIZE		LIQUID	mm/in	12.70 / 1/2		15.88 / 5/8		
		GAS	mm/in	25.57 / 1 1/8		25.57 / 1 1/8		

- 1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI 210/240-94.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 26.7°C DB / 19.4°C WB INDOOR AND 35.0°C DB / 23.9°C WB OUTDOOR
b) HEATING - 21.1°C DB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8616 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW THE CENTER OF THE UNIT.
TESTED WITH 2m DUCT LENGTH AT THE AIR DISCHARGE OUTLET AND 1m DUCT LENGTH AT THE AIR RETURN INLET.
5) EER/COP CALCULATION IS BASED ON EFFECTIVE POWER INPUT AS PER ISO 5151.

DUCTED SPLIT MDB-D SERIES - R-407C

COOLING ONLY MODEL			INDOOR UNIT		MDB 075D		MDB 100D	
			OUTDOOR UNIT		M4MC 075D		M4MC 100D	
NOMINAL CAPACITY				Btu/h	73000		91000	
				W	21395		26670	
50 Hz	NOMINAL TOTAL INPUT POWER			W	8080		10160	
POWER SOURCE				V/Ph/Hz	380~415 / 3 / 50		380~415 / 3 / 50	
INDOOR UNIT	AIR FLOW		HIGH	l/s / cfm	1062 / 2250		1416 / 3000	
			MEDIUM	l/s / cfm	902 / 1912		1203 / 2550	
			LOW	l/s / cfm	743 / 1575		991 / 2100	
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa / in.wg	100 / 75 / 50 (0.4 / 0.3 / 0.2)		100 / 75 / 50 (0.4 / 0.3 / 0.2)	
	SOUND PRESSURE LEVEL (H/M/L)			dBA	56 / 54 / 52		57 / 55 / 53	
	UNIT DIMENSION		HEIGHT	mm/in	507 / 19.96		507 / 19.96	
			WIDTH	mm/in	1507 / 59.33		1817 / 71.50	
			DEPTH	mm/in	904 / 35.59		874 / 34.40	
	UNIT WEIGHT			kg/lb	95 / 209		120 / 264	
OUTDOOR UNIT	SOUND PRESSURE LEVEL			dBA	64		64	
	UNIT DIMENSION		HEIGHT	mm/in	1041 / 41.0		1041 / 41.0	
			WIDTH	mm/in	981 / 38.6		981 / 38.6	
			DEPTH	mm/in	981 / 38.6		981 / 38.6	
	UNIT WEIGHT			kg/lb	170 / 374		184 / 405	
	PIPE CONNECTION		TYPE		BRAZING		BRAZING	
			SIZE	LIQUID	mm/in	12.70 / 1/2		15.88 / 5/8
		GAS		mm/in	28.57 / 1 1/8		28.57 / 1 1/8	

- 1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
COOLING - 26.7°C DB / 19.4°C WB INDOOR AND 35°C DB / 23.9°C WB OUTDOOR
4) SOUND PRESSURE LEVEL:
POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW THE UNIT.
TESTED WITH FREE RETURN INLET AND 2m DUCT LENGTH AT THE AIR DISCHARGE OUTLET.

DUCTED SPLIT MDB-D SERIES - R-407C

COOLING ONLY MODEL			INDOOR UNIT		MDB 125D	MDB 150D1	MDB 150D2	MDB 200D2
			OUTDOOR UNIT		M4MC 125D	M4MC 150D	M4MC 075D x 2	M4MC 100D x 2
NOMINAL CAPACITY				Btu/h	108000	145000	146000	182000
				W	31650	42500	42790	53500
50 Hz	NOMINAL TOTAL INPUT POWER			W	12100	16239	16424	21100
POWER SOURCE				V/Ph/Hz	380~415 / 3 / 50	380~415 / 3 / 50	380~415 / 3 / 50	380~415 / 3 / 50
INDOOR UNIT	AIR FLOW		HIGH	l/s / cfm	1770 / 3750	2124 / 4500	2124 / 4500	2832 / 6000
	EXTERNAL STATIC PRESSURE			Pa / in.wg	150 / 0.6	150 / 0.6	150 / 0.6	150 / 0.6
	SOUND PRESSURE LEVEL			dBA	58	59	59	60
	UNIT DIMENSION	HEIGHT		mm/in	710 / 28.0	710 / 27.8	710 / 27.8	881 / 34.7
		WIDTH		mm/in	1794 / 70.6	2073 / 81.6	2073 / 81.6	1324 / 52.1
		DEPTH		mm/in	1009 / 39.7	964 / 38.0	964 / 38.0	1260 / 49.6
	UNIT WEIGHT			kg/lb	155 / 341	175 / 385	175 / 385	248 / 546
OUTDOOR UNIT	SOUND PRESSURE LEVEL			dBA	66	67	64	64
	UNIT DIMENSION	HEIGHT		mm/in	1142 / 44.9	1142 / 44.9	1041 / 41.0	1041 / 41.0
		WIDTH		mm/in	1083 / 42.6	1083 / 42.6	981 / 38.6	981 / 38.6
		DEPTH		mm/in	1083 / 42.6	1083 / 42.6	981 / 38.6	981 / 38.6
	UNIT WEIGHT			kg/lb	197 / 434	268 / 590	170 / 374	184 / 405
	PIPE CONNECTION	TYPE			BRAZING	BRAZING	BRAZING	BRAZING
		SIZE	LIQUID		mm/in	15.88 / ⁵ / ₈	15.88 / ⁵ / ₈	12.70 / ¹ / ₂
GAS			mm/in	34.92 / ¹³ / ₈	34.92 / ¹³ / ₈	28.57 / 1	28.57 / ¹¹ / ₈	

DUCTED SPLIT MDB-D SERIES - R-407C

COOLING ONLY MODEL			INDOOR UNIT		MDB 250D2	MDB 300D2	MDB 400D4	MDB 500D4
			OUTDOOR UNIT		M4MC 125D x 2	M4MC 150D x 2	M4MC 100D x 4	M4MC 125D x 4
NOMINAL CAPACITY				Btu/h	216000	290000	364000	432000
				W	63310	84990	105510	126612
50 Hz	NOMINAL TOTAL INPUT POWER			W	25660	33998	42500	53820
POWER SOURCE				V/Ph/Hz	380~415 / 3 / 50	380~415 / 3 / 50	380~415 / 3 / 50	380~415 / 3 / 50
INDOOR UNIT	AIR FLOW		HIGH	l/s / cfm	3540 / 7500	4248 / 9000	5664 / 12000	7080 / 15000
	EXTERNAL STATIC PRESSURE			Pa / in.wg	200 / 0.8	200 / 0.8	300 / 1.2	450 / 1.8
	SOUND PRESSURE LEVEL			dBA	62	65	66	67
	UNIT DIMENSION		HEIGHT	mm/in	982 / 38.7	982 / 38.7	1175 / 46.3	1175 / 46.3
			WIDTH	mm/in	1486 / 58.5	1486 / 58.5	1722 / 67.8	1722 / 67.8
			DEPTH	mm/in	1349 / 53.1	1552 / 61.1	1742 / 68.6	2098 / 82.6
	UNIT WEIGHT			kg/lb	321 / 707	394 / 868	470 / 1036	567 / 1250
OUTDOOR UNIT	SOUND PRESSURE LEVEL			dBA	66	67	64	66
	UNIT DIMENSION		HEIGHT	mm/in	1142 / 44.9	1142 / 44.9	1041 / 41.0	1042 / 44.9
			WIDTH	mm/in	1083 / 42.6	1083 / 42.6	981 / 38.6	1083 / 42.6
			DEPTH	mm/in	1083 / 42.6	1083 / 42.6	981 / 38.6	1083 / 42.6
	UNIT WEIGHT			kg/lb	197 / 434	268 / 590	184 / 405	197 / 434
	PIPE CONNECTION		TYPE		BRAZING	BRAZING	BRAZING	BRAZING
			SIZE	LIQUID	mm/in	15.88 / ⁵ / ₈	15.88 / ⁵ / ₈	15.88 / ⁵ / ₈
GAS				mm/in	34.92 / 1 ³ / ₈	41.28 / 1 ⁵ / ₈	28.57 / 1 ¹ / ₈	34.92 / 1 ³ / ₈

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-94
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
COOLING - 26.7°C DB / 19.4°C WB INDOOR AND 35°C DB / 23.9°C WB OUTDOOR
4) SOUND PRESSURE LEVEL:
I) FOR MDB150D AND BELOW, POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW THE UNIT.
TESTED WITH FREE RETURN INLET AND 2m DUCT LENGTH AT THE AIR DISCHARGE OUTLET.
II) FOR MDB200D AND ABOVE, POSITION OF THE MEASUREMENT POINT IS 1m AWAY FROM THE SERVICE PANEL AND 1m HEIGHT FORM THE FLOOR LEVEL.
TESTED WITH FREE RETURN AND THE DISCHARGE AIR WAS DUCTED TO ADJACENT ROOM.

DUCTED SPLIT MDB-ER SERIES - R-407C

HEATPUMP MODEL		INDOOR UNIT		MDB 075ER		MDB 100ER		
		OUTDOOR UNIT		M4MC 075ER		M4MC 100ER		
NOMINAL COOLING CAPACITY			Btu/h	73000		91000		
			W	21400		26670		
NOMINAL HEATING CAPACITY			Btu/h	81000		109000		
			W	23740		31950		
50 Hz	NOMINAL TOTAL INPUT POWER		COOLING	W	8024		10610	
			HEATING	W	8224		10610	
POWER SOURCE			V/Ph/Hz	400 / 3 / 50				
INDOOR UNIT	AIR FLOW	HIGH	L/s / CFM	1061.9 / 2250		1415.8 / 3000		
		MEDIUM	L/s / CFM	972.2 / 2060		1321.5 / 2800		
		LOW	L/s / CFM	731.5 / 1550		1227.1 / 2600		
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	106 / 93 / 65 (0.4 / 0.4 / 0.3)		211 / 189 / 161 (0.8 / 0.8 / 0.6)		
	SOUND PRESSURE (H/M/L)		dBA	56 / 54 / 52		57 / 55 / 53		
	UNIT DIMENSION	HEIGHT	mm/in	507 / 19.96				
		WIDTH	mm/in	1507 / 59.33		1917.2 / 75.48		
		DEPTH	mm/in	904 / 35.59				
	UNIT WEIGHT		kg/lb	95 / 209.0		120 / 264.0		
OUTDOOR UNIT	SOUND PRESSURE		dBA	64				
	UNIT DIMENSION	HEIGHT	mm/in	1041 / 40.98				
		WIDTH	mm/in	981 / 38.62				
		DEPTH	mm/in	981 / 38.62				
	UNIT WEIGHT		kg/lb	170 / 374		184 / 405.7		
	PIPE CONNECTION	TYPE		BRAZED				
		SIZE	LIQUID	mm/in	12.70 / 1/2		15.88 / 5/8	
			GAS	mm/in	25.40 / 1.0		28.57 / 1 1/8	

DUCTED SPLIT MDB-ER SERIES - R-407C

HEATPUMP MODEL			INDOOR UNIT		MDB 125ER	MDB 125ER2	MDB 150ER1	MDB 150ER2
			OUTDOOR UNIT		M4MC 125ER	M4LC 061CR x 2	M4MC 150ER	M4MC 075ER x 2
NOMINAL COOLING CAPACITY				Btu/h	108000	108000	145000	146000
				W	31650	31650	42500	42790
NOMINAL HEATING CAPACITY				Btu/h	124000	112000	150000	162000
				W	36340	32830	43960	47480
50 Hz	NOMINAL TOTAL INPUT POWER		COOLING	W	12100	12030	16239	16280
			HEATING	W	11100	11034	14060	16680
POWER SOURCE				V/Ph/Hz	400 / 3 / 50		400 / 3 / 50	
INDOOR UNIT	AIR FLOW			L/s / CFM	1769.8 / 3750		223.8 / 4500	
	EXTERNAL STATIC PRESSURE			Pa (in.wg.)	169 / 0.7		177 / 0.7	
	SOUND PRESSURE			dBA	58		59	
	UNIT DIMENSION	HEIGHT		mm/in	710 / 27.95		710 / 27.95	
		WIDTH		mm/in	1794 / 70.62		2073 / 81.61	
		DEPTH		mm/in	1009 / 39.70		1009 / 39.70	
	UNIT WEIGHT			kg/lb	155 / 341.0		175 / 385.8	
OUTDOOR UNIT	SOUND PRESSURE			dBA	66	71	67	64
	UNIT DIMENSION	HEIGHT		mm/in	1041 / 40.98	850 / 33.46	1142 / 44.96	1041 / 40.98
		WIDTH		mm/in	1083 / 42.63	1030 / 40.55	1083 / 42.63	981 / 38.62
		DEPTH		mm/in	1083 / 42.63	460 / 18.11	1083 / 42.63	981 / 38.62
	UNIT WEIGHT			kg/lb	197 / 434.31	108 / 238.10	268 / 590.8	170 / 374.8
	PIPE CONNECTION	TYPE			BRAZED	FLARE	BRAZED	
		SIZE	LIQUID	mm/in	15.88 / ⁵ / ₈	12.70 / ¹ / ₂	15.88 / ⁵ / ₈	12.70 / ¹ / ₂
GAS			mm/in	34.92 / 1 ³ / ₈	19.05 / ³ / ₄	34.92 / 1 ³ / ₈	25.10 / 1.0	

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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:

POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW THE UNIT.

TESTED WITH FREE RETURN INLET AND 2m DUCT LENGTH AT THE AIR DISCHARGE OUTLET.

DUCTED SPLIT MDB-ER SERIES - R-407C

HEATPUMP MODEL			INDOOR UNIT		MDB 200ER2	MDB 250ER2	MDB 300ER2	MDB 300ER3	MDB 350ER3	
			OUTDOOR UNIT		M4MC 100ER x 2	M4MC 125ER x 2	M4MC 150ER x 2	M4MC 100ER x 3	M4MC 100ER	M4MC 125ER x 2
NOMINAL COOLING CAPACITY			Btu/h	182000	216000	290000	273000	307000		
			W	53340	63310	84990	90010	89980		
NOMINAL HEATING CAPACITY			Btu/h	218000	248000	300000	327000	357000		
			W	63890	72680	87920	95840	104630		
50 Hz	NOMINAL TOTAL INPUT POWER		COOLING	W	21030	24730	32998	31450	35020	
			HEATING	W	21930	22730	28640	32800	33470	
POWER SOURCE			V/Ph/Hz	380~415 / 3 / 50						
INDOOR UNIT	AIR FLOW		L/s / CFM	3020.5 / 6400	3775.6 / 8000	4247.5 / 9000		4955.4 / 10500		
	EXTERNAL STATIC PRESSURE		Pa/in.wg	177 / 0.7	412 / 1.7	353 / 1.4		289.3 / 29.5		
	SOUND PRESSURE		dBA	61	63	66		66		
	UNIT DIMENSION	HEIGHT	mm/in	945 / 37.20	1291 / 50.82	1291 / 50.82		1546 / 60.86		
		WIDTH	mm/in	1894 / 74.56	1886 / 73.46	1866 / 73.46		2122 / 83.54		
		DEPTH	mm/in	980 / 38.58	1199 / 47.20	1199 / 47.20		1199 / 47.20		
	UNIT WEIGHT		kg/lb	220 / 485.0	343 / 756.2	343 / 756.18		440 / 970.03		
OUTDOOR UNIT	SOUND PRESSURE		dBA	64	66	67	64	64	66	
	UNIT DIMENSION	HEIGHT	mm/in	1041 / 40.98	1041 / 40.98	1142 / 44.96	1041 / 40.98	1041 / 40.98		
		WIDTH	mm/in	981 / 38.62	1083 / 42.63	1083 / 42.63	981 / 38.62	981 / 38.62	1083 / 42.63	
		DEPTH	mm/in	981 / 38.62	1083 / 42.63	1083 / 42.63	981 / 38.62	981 / 38.62	1083 / 42.63	
	UNIT WEIGHT		kg/lb	184 / 405.7	197 / 434.31	268 / 590.84	184 / 405.65	184 / 405.65	197 / 434.31	
	PIPE CONNECTION	TYPE		BRAZED		BRAZED		BRAZED		
		SIZE	LIQUID	mm/in	15.88 / ⁵ / ₈		15.88 / ⁵ / ₈		15.88 / ⁵ / ₈	
GAS			mm/in	28.58 / ¹ / ₈	34.93 / ¹ / ₈	34.92 / ¹ / ₈	28.58 / ¹ / ₈	28.58 / ¹ / ₈	34.92 / ¹ / ₈	

DUCTED SPLIT MDB-ER SERIES - R-407C

HEATPUMP MODEL			INDOOR UNIT		MDB 400ER4	MDB 450ER3	MDB 500ER4	MDB 600ER4
			OUTDOOR UNIT		M4MC 100ER x 4	M4MC 150ER x 3	M4MC 125ER x 4	M4MC 150ER x 4
NOMINAL COOLING CAPACITY			Btu/h	364000	432000	435000	580000	
			W	106680	126610	127490	169990	
NOMINAL HEATING CAPACITY			Btu/h	436000	450000	496000	600000	
			W	127780	131890	145370	175850	
50 Hz	NOMINAL TOTAL INPUT POWER		COOLING	W	41435	50817	50755	70896
			HEATING	W	43235	44280	46755	62180
POWER SOURCE			V/Ph/Hz	380~415 / 3 / 50				
INDOOR UNIT	AIR FLOW		L/s / CFM	5663.4 / 12000	6371.3 / 13500	7079.2 / 15000	8495.1 / 18000	
	EXTERNAL STATIC PRESSURE		Pa/in.wg	353 / 1.4	373 / 1.5	402 / 1.6	520 / 2.1	
	SOUND PRESSURE		dBA	66	68		70	
	UNIT DIMENSION	HEIGHT	mm/in	1546 / 60.86	1546 / 60.86		1918 / 75.50	
		WIDTH	mm/in	2274 / 89.52	2274 / 89.52		2274 / 89.52	
		DEPTH	mm/in	1466 / 57.71	1466 / 57.71		1965 / 77.40	
	UNIT WEIGHT		kg/lb	513 / 1130.97	564 / 1243.41	606 / 1336.00	991 / 2184.78	
OUTDOOR UNIT	SOUND PRESSURE		dBA	64	67	66	67	
	UNIT DIMENSION	HEIGHT	mm/in	1041 / 40.98	1142 / 44.96	1041 / 40.98	1142 / 44.96	
		WIDTH	mm/in	981 / 38.62	1083 / 42.63	981 / 38.62	1083 / 42.63	
		DEPTH	mm/in	981 / 38.62	1083 / 42.63	981 / 38.62	1083 / 44.63	
	UNIT WEIGHT		kg/lb	184 / 405.65	268 / 590.84	184 / 405.65	268 / 590.84	
	PIPE CONNECTION	TYPE		BRAZED		BRAZED		
		SIZE	LIQUID	mm/in	15.88 / ⁵ / ₈	15.88 / ⁵ / ₈		15.88 / ⁵ / ₈
GAS			mm/in	28.58 / 1 ¹ / ₈	34.92 / 1 ³ / ₈		34.92 / 1 ³ / ₈	

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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:

POSITION OF THE MEASUREMENT POINT IS 1m AWAY FROM THE SERVICE PANEL AND 1m HEIGHT FORM THE FLOOR LEVEL.

TESTED WITH FREE RETURN AND THE DISCHARGE AIR WAS DUCTED TO ADJACENT ROOM.

AIR-COOLED ROOFTOP M4RT-A SERIES - R-407C

HEATPUMP MODEL				M4RT 060AR	M4RT 080AR	M4RT 100AR	M4RT 120AR	M4RT 150AR		
NOMINAL COOLING CAPACITY			Btu/h	57000	72000	88000	100000	149000		
			W	16705	21101	25790	29307	43668		
NOMINAL HEATING CAPACITY			Btu/h	69000	77000	102000	122000	160000		
			W	20222	22566	29893	35755	46891		
50 Hz	NOMINAL TOTAL INPUT POWER	COOLING	W	6860	8410	10820	12840	16570		
		HEATING	W	6600	7540	9810	11490	15710		
COOLING ONLY MODEL				M4RT 060A	M4RT 080A	M4RT 100A	M4RT 120A	M4RT 150A		
NOMINAL CAPACITY			Btu/h	59000	72000	95000	110000	140000		
			W	17291	21101	27842	32238	41030		
50 Hz	NOMINAL TOTAL INPUT POWER		W	5890	8700	11600	12180	17200		
POWER SOURCE			V/Ph/Hz	380 ~ 415 / 3 / 50			380 ~ 415 / 3 / 50			
EVAP:	AIR FLOW		l/s / cfm	850 / 1800		1334 / 2826		1667 / 3532	1699 / 3600	2667 / 5651
	EXTERNAL STATIC PRESSURE		Pa/in.wg.	98 / 0.39			98 / 0.39		196 / 0.79	
CONDENSER	SOUND PRESSURE LEVEL		dBA	63	65	66	68	70		
	UNIT DIMENSION	HEIGHT	mm/in	1000 / 39.4		1000 / 39.4		1200 / 47.2		
		WIDTH	mm/in	1100 / 43.3		1300 / 51.2		1990 / 78.4		
		DEPTH	mm/in	1530 / 60.2			1800 / 70.9			
	UNIT WEIGHT	HEATPUMP	kg/lb	320 / 705		385 / 849		415 / 915	440 / 970	700 / 1543
		COOLING ONLY	kg/lb	295 / 650		370 / 816		400 / 882	425 / 937	665 / 1466

AIR-COOLED ROOFTOP M4RT-A SERIES - R-407C

HEATPUMP MODEL				M4RT 200AR	M4RT 250AR	M4RT 300AR	M4RT 360AR	M4RT 420AR
NOMINAL COOLING CAPACITY			Btu/h	190000	230000	283000	345000	374000
			W	55684	67406	82939	101110	109609
NOMINAL HEATING CAPACITY			Btu/h	230000	255000	315000	349000	431000
			W	67406	74733	92317	102290	126314
50 Hz	NOMINAL TOTAL INPUT POWER	COOLING	W	21160	29200	38160	43170	48200
		HEATING	W	20300	26220	34780	41670	46800
COOLING ONLY MODEL				M4RT 200A	M4RT 250A	M4RT 300A	M4RT 360A	M4RT 420A
NOMINAL CAPACITY			Btu/h	190000	230000	283000	331000	415000
			W	55684	67406	82939	97007	121624
50 Hz	NOMINAL TOTAL INPUT POWER		W	25100	28700	40160	41870	48800
POWER SOURCE			V/Ph/Hz	380 ~ 415 / 3 / 50	380 ~ 415 / 3 / 50		380 ~ 415 / 3 / 50	
EVAP:	AIR FLOW		l/s / cfm	3167 / 6710	3776 / 8000	4531 / 9600	5191 / 11000	5899 / 12500
	EXTERNAL STATIC PRESSURE		Pa/in.wg.	196 / 0.79	294 / 1.18		294 / 1.18	
CONDENSER	SOUND PRESSURE LEVEL		dBA	70	74		70	
	UNIT DIMENSION	HEIGHT	mm/in	1200 / 47.2	1735 / 68.0		1974 / 78.0	
		WIDTH	mm/in	1990 / 78.4	2250 / 88.5		2252 / 89.0	
		DEPTH	mm/in	1800 / 70.9	2800 / 110.0		3180 / 125.0	
	UNIT WEIGHT	HEATPUMP	kg/lb	800 / 1764	1200 / 2646	1350 / 2976	1510 / 3329	1600 / 3527
		COOLING ONLY	kg/lb	765 / 1687	1200 / 2646	1350 / 2976	1510 / 3329	1600 / 3527

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b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL:
POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT OF THE UNIT AND 1m ABOVE THE FLOOR LEVEL