

MINI-SPLIT SYSTEMS



MPA

Mini-Split

Single Zone Heat Pump Systems - R-410A

Bulletin No. 210756
August 2017
Supersedes April 2017

PRODUCT SPECIFICATIONS



MPA009 thru 036 Heat Pump Outdoor Units



M22A/M33A Cassette Non-Ducted Indoor Unit



MMDA Medium Static Ducted Indoor Unit



MPA048 Heat Pump Outdoor Units



MWMA Wall-Mounted Non-Ducted Indoor Unit



MCFA Ceiling/Floor-Mount Non-Ducted Indoor Unit

**Wireless Remote Control
(furnished with
Wall-Mount,
Cassette and
Ceiling/Floor
Non-Ducted Models)**



**Wired Remote Control
(furnished with
Medium Static
Ducted Models)**



SEER up to 23.50

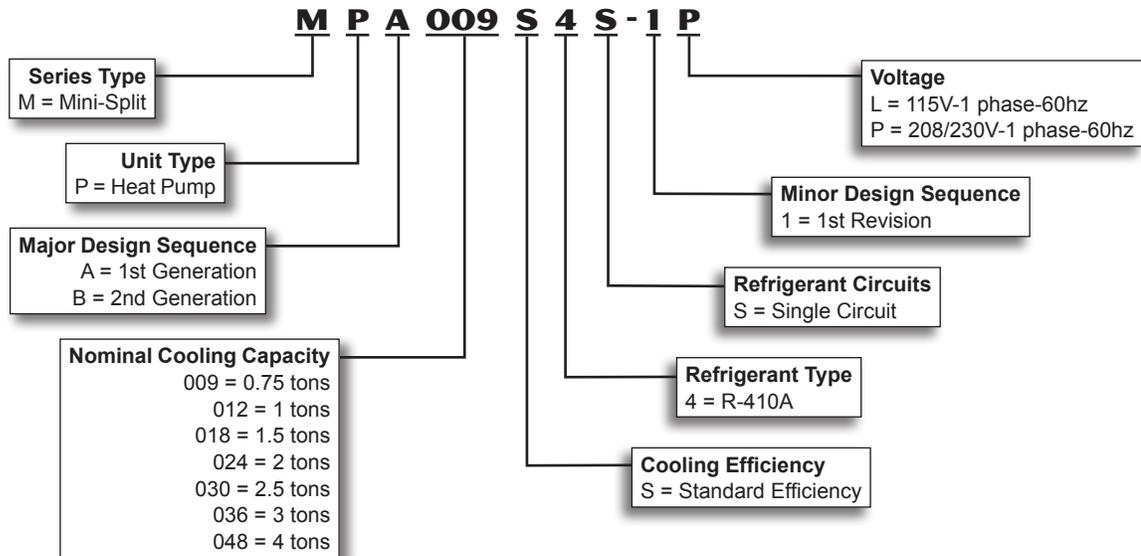
0.75 to 4 Tons

Cooling Capacity - 9,000 to 48,000 Btuh

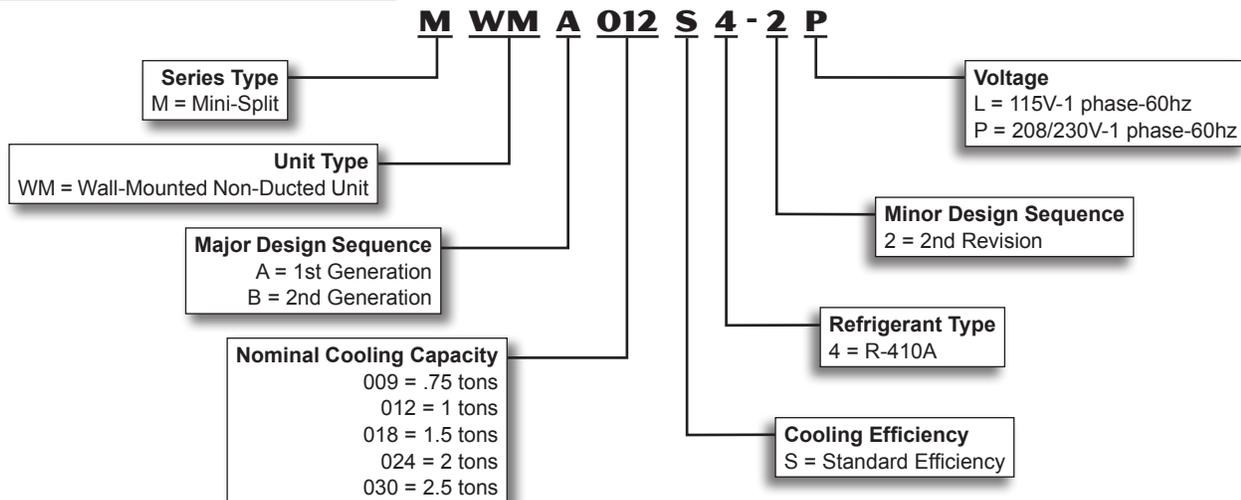
Heating Capacity - 9,000 to 50,000 Btuh

MODEL NUMBER IDENTIFICATION

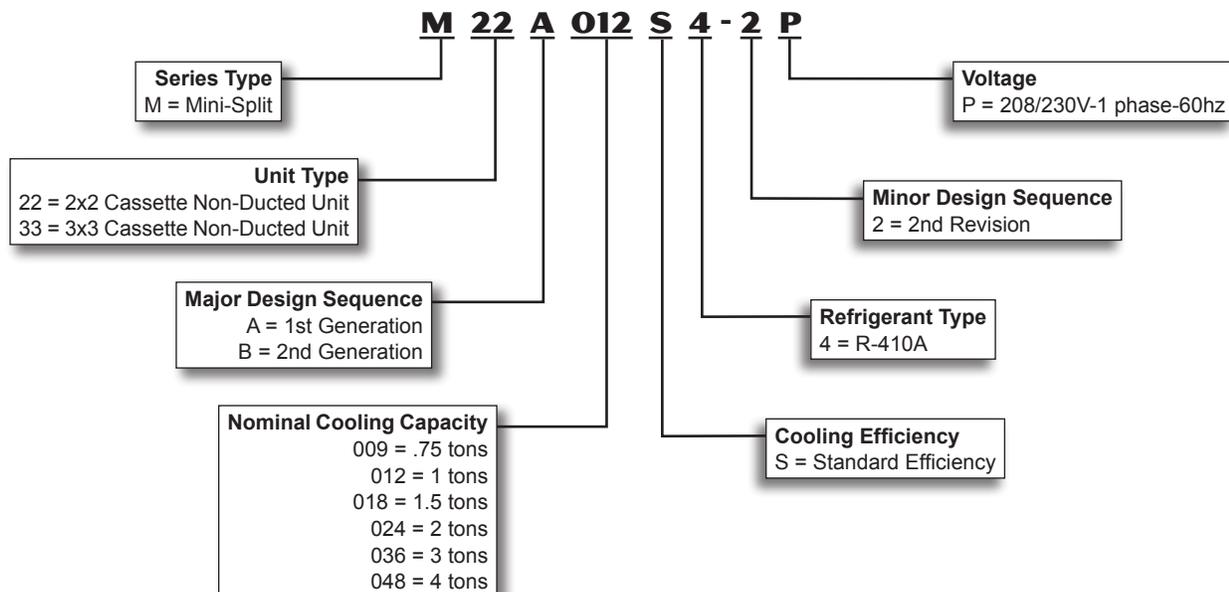
OUTDOOR SINGLE ZONE HEAT PUMP UNITS



WALL-MOUNTED INDOOR UNITS

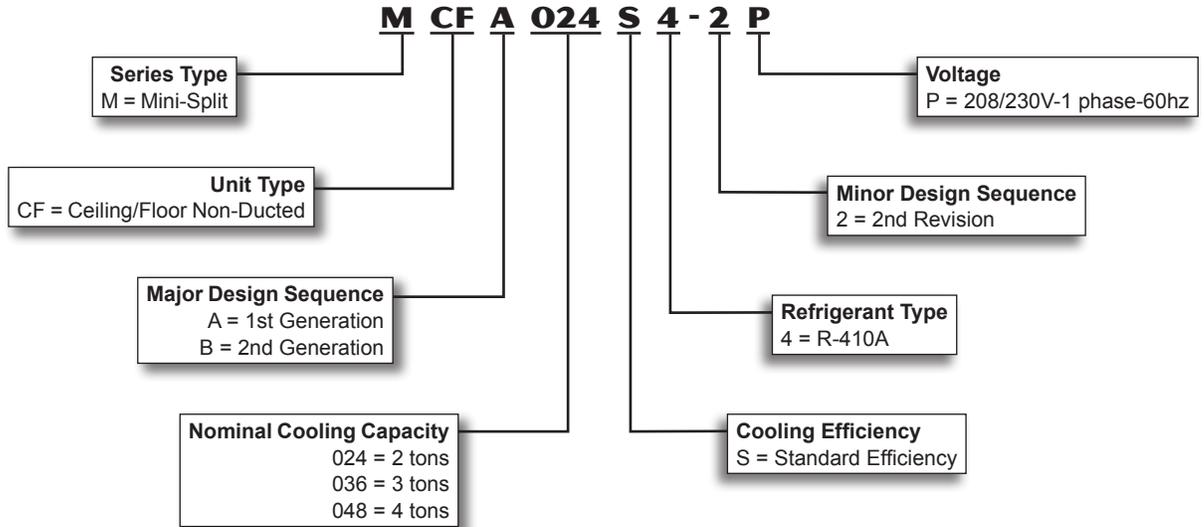


CASSETTE NON-DUCTED INDOOR UNITS

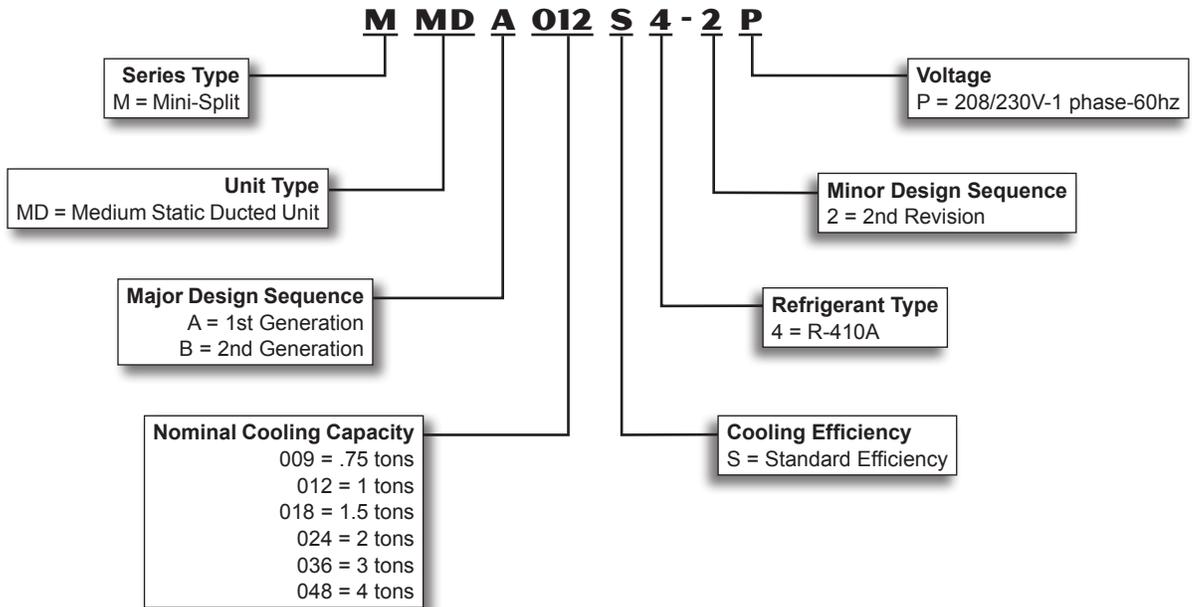


MODEL NUMBER IDENTIFICATION

CEILING/FLOOR NON-DUCTED INDOOR UNITS



MEDIUM STATIC DUCTED INDOOR UNITS



FEATURES - OUTDOOR UNITS

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EQUIPMENT WARRANTY

Compressor - Limited warranty for seven years.

All other covered components - Five years.

Refer to Lennox Equipment Limited Warranty certificate included with unit for specific details.

APPLICATIONS

SEER up to 23.50.

HSPF up to 10.5.

0.75 through 4 ton.

Single phase power supply (115V and 208/230V).

Outdoor unit sound levels as low as 51 dB.

Indoor unit sound levels as low as 24 dB.

Ductless mini-split systems provide a wide range of capacities and applications and provide an alternative when a ducted system is impractical or cost prohibitive.

Units shipped completely factory assembled, internally piped, and wired.

Installer must set outdoor unit, hang indoor unit, connect refrigerant lines, and make electrical connections to complete job.

NOTE - Outdoor unit is designed for outdoor use.

NOTE - it is recommended that Medium Static Ducted Indoor Units not be installed in unconditioned spaces with temperatures above 100°F.

APPROVALS

AHRI Certified to AHRI Standard 210/240-2008.

Rated according to U.S. Department of Energy (DOE) test procedures.

Indoor and outdoor units and components within bonded for grounding to meet safety standards for servicing required by UL and CEC.

Units are ETL certified for the U.S. and Canada.

ENERGY STAR® certified units are designed to use less energy, help save money on utility bills, and help protect the environment. Many Lennox home comfort systems meet ENERGY STAR requirements when used with matching components.

Meets 2014 Florida Building Code Wind Design Criteria:

- Ultimate Wind Speed – 186 miles per hour
- Risk Categories – III and IV
- Wind Exposures – C and D
- Mean Roof Heights – Up to 60 feet above ground

REFRIGERATION SYSTEM

R-410A Refrigerant

Non-chlorine, ozone friendly, R-410A.

Unit pre-charged with refrigerant.



Outdoor Coil

Aluminum fins fitted to copper tubes.

Wire grille guard provided.

Outdoor Fan

Direct drive fan moves large air volumes uniformly through entire outdoor coil for high refrigeration capacity.

Fan guard provided.

Refrigerant Line Connections, Service Valve

Flare connection lines are located on side of unit cabinet.

Fully serviceable brass service valve prevents corrosion and provides access to refrigerant system. Shut-off valve can be fully shut off while 3-way service valve (with service port) may be accessed to manage refrigerant charge while servicing system.

FEATURES - OUTDOOR UNITS

COMPRESSOR

Variable Frequency Rotary Compressor

Compressor features high efficiency operation. Balanced for reduced vibration and quiet operation. Brushless DC motor uses powerful Neodymium magnets, which are approximately 15-20 times stronger than ferrite magnets used in conventional AC compressors.

Compressor Crankcase Heater

Protects against liquid refrigerant migration that can occur during low ambient operation.

CONTROLS

DC Inverter Control

Provides continuous operation, while adjusting capacity according to room temperature.

The accurate sensing of cooling or heating loads prevents frequent changes in capacity and ensures efficient, economical operation.

Inverter Module Protection

Protects against differences in current, voltage and temperature. Displays code on the indoor unit indicating a need for servicing.

Outdoor Unit Microprocessor

Electronic expansion valve control.
Automatic compressor timed-off protection (3 minutes).
Temperature sensor.
LEDs on control display error codes and assist in troubleshooting.
4-Way reversing valve control.

Electronic Expansion Valve

Furnished on all models.

Compressor Overcurrent Protection

Overcurrent protection can result due to any of the following:

- Ambient temperature is too high
- Locked rotor on the compressor
- Outdoor air is blocked or restricted

Condenser High Temperature Protection

Condenser high temperature can occur due to any of the following conditions:

- High outdoor ambient
- Outdoor fan blocked
- Outdoor coil blocked

The outdoor coil thermistor continuously monitors the temperature and communicates with the microprocessor.

Depending on the temperature measured, the compressor will be allowed to increase the frequency if needed to meet the load or is forced to run at the current or reduced frequency. If the temperature

becomes excessively high the compressor will be de-energized.

Compressor Discharge Temperature Protection

The compressor discharge line thermistor continuously monitors the temperature and communicates with the microprocessor.

Depending on the temperature measured, the compressor will be allowed to increase the frequency to meet the load or is forced to run at the current or reduced frequency. If the temperature becomes excessively high, the compressor will be de-energized.

Voltage Protection

Protects unit from low or high voltage fluctuations.

Terminal Strip

Furnished for easy wiring connections.

Defrost Control

Defrost cycle is automatically enabled if there is a build-up of frost on the outdoor coil. Outdoor fan and indoor blower operation is terminated during the defrost cycle. Defrost LED is lit on the indoor unit panel on the front cover during a defrost cycle.

Reversing Valve

4-way interchange reversing valve effects a rapid change in direction of refrigerant flow resulting in quick changeover from cooling to heating and vice versa. Valve operates on pressure differential between outdoor unit and indoor unit of the system.

CABINET

Constructed of heavy gauge steel.
Tabs on unit base allow secure mounting to slab.
Condensate drain outlets furnished on unit base. Drain must be field furnished.
Pan heater prevents ice build-up in the bottom of the unit during heating operation.
Access cover for power and control wiring connections.
Access cover for service valves.

FEATURES - INDOOR UNITS

WALL-MOUNTED INDOOR UNITS



Low-sound, three-speed Wall Mount with LED display offers three access points for refrigerant outlet pipes: left, right or rear. The front panel can be raised for accessible wiring and maintenance. Swing louver angles to 90°. Unit installs horizontally on a vertical wall.

- **Pre-Heat Function** - Delays the operation of the fan until the indoor coil has reached a pre-determined temperature which prevents the discharge of cold air while the system is operating in the “heating” mode.
- **LED Readout** - Mounted on unit. LED displays unit operation status, and codes for maintenance and servicing.
- **Auto Restart** - Automatically restores the previous function setting if power is interrupted.
- **Cooling Override** - Button on the indoor unit allows a temporary 30 minute override of the system for forced “AUTO” or “COOLING” operation.
- **Flare Connections** - Equipped with liquid and gas flare fittings for quick and secure piping.
- **Multi-Refrigerant Outlet** - Allows left, right, or rear access for refrigeration line connection.
- **Three Speed Fan** - Fan functions at three speeds: low, medium and high.
- **Air Filter** - Cleanable air filter is furnished as standard.

CASSETTE INDOOR UNITS



Low-sound and encased in galvanized steel, the Cassette unit with LED display offers 360° airflow for immediate, equal distribution of wide-range cooling and heating.

- **360° Airflow Panel** - Allows for even, wide-range cooling and heating.
- **Pre-Heat Function** - Delays the operation of the fan until the indoor coil has reached a pre-determined temperature which prevents the discharge of cold air while the system is operating in the “heating” mode.
- **LED Readout/Infrared Receiver Panel** - Mounted on unit. LEDs display unit operation status, and codes for maintenance and servicing. Infrared receiver for use with wireless remote control (furnished).
- **Auto Restart** - Automatically restores the previous function setting if power is interrupted.
- **Cooling Override** - Button on the indoor unit allows a temporary 30 minute override of the system for forced “AUTO” or “COOLING” operation.
- **Built-In Condensate Pump** - Maximum lift - 27-1/2 in.
- **Compact Design** - Allows accessible wiring and space-saving installation with reduced width and depth.
- **Flare Connections** - Equipped with liquid and gas flare fittings for quick and secure piping.
- **Four Speed Fan** - Fan functions at four speeds: low, medium, high and turbo.
- **Turbo Fan With Backward Curved Blades** - Reduces sound levels and air resistance.
- **Air Filter** - Cleanable air filter is furnished as standard.



NOTE - The cassette panel must be ordered separately. See Specifications table for ordering information.

FEATURES - INDOOR UNITS

CEILING/FLOOR MOUNT INDOOR UNITS



Low-sound, three-speed Ceiling and Floor Mount models with LED display has a multi-blade fan that distributes air vertically and horizontally with a wide angle sweeping motion. Two installation options are available: horizontally against the ceiling or vertically against the floor/wall.

- **Pre-Heat Function** - Delays the operation of the fan until the indoor coil has reached a pre-determined temperature which prevents the discharge of cold air while the system is operating in the “heating” mode.
- **LED Readout/Infrared Receiver Panel** - Mounted on unit. LEDs display unit operation status, and codes for maintenance and servicing. Infrared receiver for use with wireless remote control (furnished).



NOTE - Readout panel design varies depending on unit size.

- **Auto Restart** - Automatically restores the previous function setting if power is interrupted.
- **Cooling Override** - Button on the indoor unit allows a temporary 30 minute override of the system for forced “AUTO” or “COOLING” operation.
- **Flare Connections** - Equipped with liquid and gas flare fittings for quick and secure piping.
- **Multi-Refrigerant Outlet** - Allows left, right, or rear access for refrigeration line connection.
- **Three Speed Fan** - Fan functions at three speeds: low, medium and high.
- **Air Filter** - Cleanable air filter is furnished as standard.

MEDIUM STATIC DUCTED INDOOR UNITS



Slim, compact design for limited space requirements. Installs out of sight between the drop ceiling and ceiling slab with ducted distribution to the indoor space.

- **Pre-Heat Function** - Delays the operation of the fan until the indoor coil has reached a pre-determined temperature which prevents the discharge of cold air while the system is operating in the “heating” mode.
- **LED Readout Panel** - Mounted in the unit control box unit. LEDs display unit operation status, and codes for maintenance and servicing.
- **Auto Restart** - Automatically restores the previous function setting if power is interrupted.
- **Cooling Override** - Button on the indoor unit allows a temporary 30 minute override of the system for forced “AUTO” or “COOLING” operation.
- **Built-In Condensate Pump** - 27-1/2 inch lift.
- **Duct Connections** - Return air connections can be made horizontally or from the bottom of the unit with interchangeable panel.
- **Flare Connections** - Equipped with liquid and gas flare fittings for quick and secure piping.
- **Three Speed Fan** - Fan functions at three speeds: low, medium and high.
- **Air Filter** - Cleanable air filter is furnished as standard.

AUTO CHANGEOVER OPERATION

If the indoor unit is set to “AUTO” mode the unit will operate in cooling, heating or fan mode based on temperature setting. Fan runs in auto mode.

ACCESSORIES (FURNISHED)

WIRELESS REMOTE CONTROL

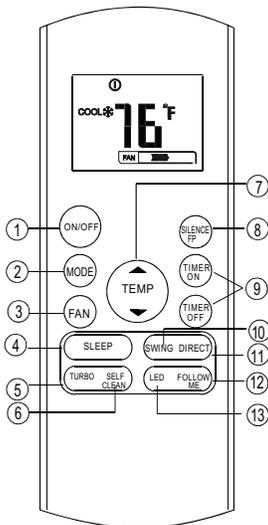
Furnished with Wall-Mounted Indoor Units, Cassette Indoor Units and Ceiling/Floor Indoor Units.

NOTE - Can be ordered separately for ducted indoor units.

Complete remote control of system. Maximum operating range is 25 ft.

Operates on two AAA 1.5V batteries (furnished).

Wireless remote control holder furnished. Holder can be mounted on a wall for easy access. Mounting screws furnished.



1 ON/OFF Button

- Turns system on and off.

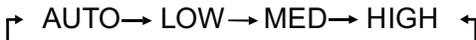
2 MODE Button

- Select system operation modes. Push button to cycle through each setting.



3 FAN Button

- Select fan speed. Push button to cycle through each setting.



NOTE - Not available in AUTO or DRY modes.

4 SLEEP Button

- Enables the system to automatically increase cooling or decrease heating (in 2°F increments) per hour for the first 2 hours, then maintain a steady temperature for 5 hours. System shuts off after 7 total hours of operation.

NOTE - To cancel, push the "MODE", "FAN SPEED" or "ON/OFF" buttons.

NOTE - SLEEP mode is only available when the unit is in COOL, HEAT or AUTO mode.

5 TURBO Button

- Enables the unit to reach the preset temperature during cooling or heating operation in the shortest time.

6 SELF CLEAN Button

- Automatically cleans and dries the evaporator coil at the end of the cooling season, preventing any odors or mildew.

7 UP/DOWN Buttons ▲ ▼

- Increase or decrease the indoor temperature in one degree increments (maximum 86°F, minimum 62°F).

NOTE - Temperature cannot be adjusted in FAN mode.

NOTE - Press and hold and buttons together for 3 seconds to alternate the temperature display between the °C and °F scale.

8 SILENCE/FP Button

- Silence - Operates the compressor at low frequency and low fan speed to reduce operating sound levels to a minimum.
- FP - Only available during heating operation. Unit will operate at a set temperature of 46°F.

NOTE - To cancel, push the "ON/OFF", "SLEEP", "FP", "MODE", "FAN SPEED", "UP/DOWN" buttons.

9 TIMER ON / TIMER OFF Buttons

- TIMER ON (initiates an auto-on time sequence) and TIMER OFF (initiates an auto-off time sequence) can be used separately or together. Each press of the button increases the time in 30 minute increments up to 10 hours. Above 10 hours each press of the button will increase the auto-timed setting by 60 minutes up to 24 hours.

NOTE - To cancel, set timer to 0.0 or turn remote off and on.

10 SWING Button

- Used to stop or start horizontal louver auto swing feature.

11 DIRECT Button

- Used to change the louver movement and set the desired up/down air flow direction.
- The louver angle changes 6° for each press of the button.

12 FOLLOW ME Button

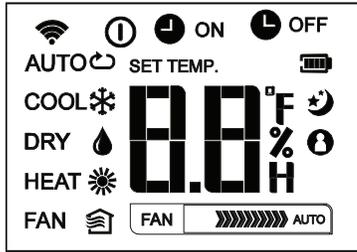
- Allows remote temperature sensing of the room at the remote control location.

13 LED Button

- Turns the LCD display backlight on the indoor unit on or off.

ACCESSORIES (FURNISHED)

WIRELESS REMOTE CONTROL OPERATION



Mode display



- Displayed when data transmitted.
- Displayed when remote controller is ON.
- Battery display (low battery detection)

- ON Displayed when TIMER ON time is set.
- OFF Displayed when TIMER OFF time is set.
- Show set temperature or room temperature, or time under TIMER setting.

- Displayed in Sleep Mode operation.
- Indicated that the air conditioner is operating in Follow me mode

Fan speed indication

- FAN Low speed
- FAN Medium speed
- FAN High speed
- FAN AUTO Auto fan speed

Note - During unit operation only the active functions will be shown on the display.

Auto Operation

1. Press the **MODE** button to select Auto.
2. Press the **UP/DOWN** button to set the desired temperature. The temperature can be set within a range of
3. Press the **ON/OFF** button to start the air conditioner.

Cooling /Heating/Fan Operation

1. Press the **MODE** button to select **COOL**, **HEAT** or **FAN** mode.
2. Press the **UP/DOWN** buttons to set the desired temperature.
3. Press the **FAN** button to select the fan speed in four steps- Auto, Low, Med, or High.
4. Press the **ON/OFF** button to start the air conditioner.

Dehumidifying Operation

1. Press the **MODE** button to select **DRY** mode.
2. Press the **UP/DOWN** buttons to set the desired temperature.
3. Press the **ON/OFF** button to start the air conditioner.

Timer ON/OFF Operation

1. Press the **TIMER ON** or **TIMER OFF** button. The remote controller shows **TIMER ON** or **TIMER OFF** icon, the previous Auto-on time setting and the signal "H" will be shown on the LCD display area.
2. Push the **TIMER ON** or **TIMER OFF** button again to set desired time. Each time you press the button, the time increases by 30 minutes between 0 and 10 hours and by 60 minutes between 10 and 24 hours.
3. After setting the **TIMER ON** or **TIMER OFF** there will be a one second delay before the remote control transmits the signal to the unit. After approximately 2 seconds, the signal "H" will disappear and the set temperature will re-appear on the LCD display window.

ACCESSORIES (FURNISHED)

WIRED REMOTE CONTROL

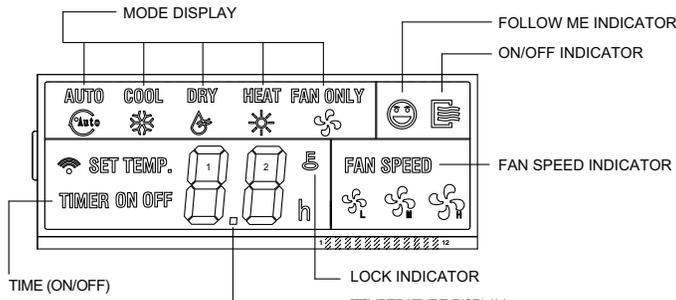
Furnished with Ducted Indoor Units.

NOTE - Can be ordered separately for non-ducted indoor units.

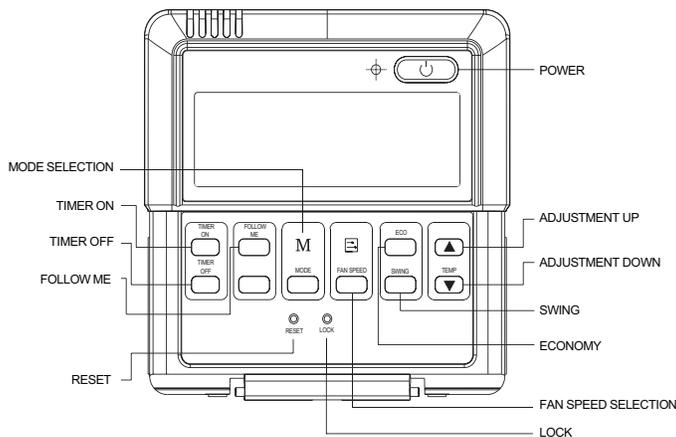
FEATURES

- Backlight - Allows easy operation in a dark room. The controller lights when any button is pressed and remains lit during control access.
- Permanent Memory - Maintains clock, fan speed and mode of operation settings following power outages.
- Dimensions (H x W x D) - 4-3/4 x 4-3/4 x 7/8 in.
- Additional hardware is furnished for installation.
- Wiring - Controller uses 5-wire shielded 20 ft. (6 m) cable (furnished) for easy low voltage connection to the indoor unit. Maximum cable length is 40 ft. (12 m).

DISPLAY

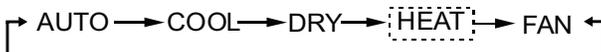


BUTTONS AND FUNCTIONS



MODE Button

- Select system operation modes. Push button to cycle through each setting.

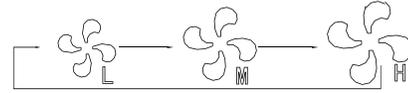


POWER Button

- Turns system on and off.

FAN SPEED Button

- Selects fan speed. Each button press cycles through the following settings on display.



NOTE - Not available in AUTO mode.

TIMER ON / TIMER OFF Buttons

- TIMER ON (initiates an auto-on time sequence) and TIMER OFF (initiates an auto-off time sequence) can be used separately or together. Each press of the button increases the time in 30 minute increments up to 10 hours. Above 10 hours each press of the button will increase the auto-timed setting by 60 minutes up to 24 hours.

NOTE - To cancel, set timer to 0.0.

UP/DOWN Buttons ▲ ▼

- Increase or decrease the indoor temperature in two degree increments (maximum 88°F, minimum 62°F).

NOTE - Temperature cannot be adjusted in FAN mode.

NOTE - Press and hold and buttons together for 3 seconds to alternate the temperature display between the °C and °F scale.

SWING Button

- Used to stop or start horizontal louver auto swing feature.

ECONOMY Button

- Maintains the most comfortable temperature and saves energy.

RESET Button (Recessed)

- Resets Controller to factory settings. Recessed to prevent tampering.

LOCK Button (Recessed)

- Locks Controller buttons to prevent tampering with settings.

OPTIONAL ACCESSORIES

Extension Cable for Wired Remote Control

20 ft. cable for easy low voltage connection to the indoor unit. Extends cable to maximum 40 ft. length.

OPTIONAL ACCESSORIES - ORDER SEPARATELY

WIRED PROGRAMMABLE CONTROLLER

M0STAT64Q-1



Wired programmable local controller for mini-split indoor units with convenient timed schedules for daily operation. Up to 8 events per day.

Schedule start time, mode, setpoint, and fan speed.

Compatible with all indoor units.

Copy/paste function for easy duplication of events to other days.

Built-in system diagnostics.

Large, back-lit, easy-to-read LCD screen with digital display.

Power Button

- Turn system on and off

Fan Speed Button

- Scroll through fan speeds (Auto → Low → Med → High)

Mode Button

- Use + and – buttons to scroll through available operation modes (Auto / Cool / Dry / Fan / Heat)

Plus (+) and Minus (–) Buttons

- Setpoint adjustment (62-86°F)
- Select days of the week when setting a schedule
- Select mode of operation

Swing Button

- Stop or start horizontal louver auto swing (only used with ductless indoor units with swing louvers)
- Controls swing oscillation and louver angle in 6° increments

Timer Button

- Sets current time of day (24 hour clock)
- Setup weekly schedules or to setup timed operation for the indoor unit
- Stop/Stop timed operation

Day Off / Del Button

- Disable specific days/schedules of the week
- Delete a specific event

Confirm Button

- Confirms each step when managing schedules

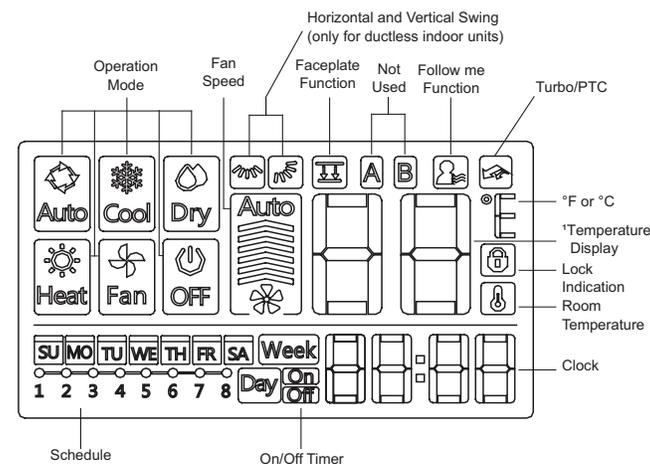
Back/Turbo Button

- Turbo sets indoor unit fan speed to high for a factory-set time period

Copy/Follow Me Button

- Toggles between room temperature sensing from the indoor unit or the controller

DISPLAY



Audible tone when a button is pressed (can be disabled).

Lock function disables buttons to prevent tampering.

Controller uses 4-wire shielded cable for easy low voltage connection to the indoor unit. 20 ft. (6 m) cable for connection between indoor and outdoor unit is furnished. For longer lengths, cable must be ordered separately. Adaptor cables are furnished for various indoor unit connections.

NOTE - Controller cable length cannot exceed 164 ft. (50 m).

Hardware for mounting furnished. Mounts to standard electrical junction box (not furnished).

Lithium battery furnished.

Power Supply: 5 VDC

Dimensions (H x W x D): 4-7/8 x 4-3/4 x 3/4 in. (124 x 121 x 19 mm).

NOTE – Programmable Controller cannot be used when a centralized controller is used with an MWMA indoor unit.

OPTIONAL ACCESSORIES

Extension Cable for Wired Programmable Controller

20 ft. cable for easy low voltage connection to the indoor unit.

OPTIONAL ACCESSORIES - ORDER SEPARATELY

OUTDOOR UNITS

Condenser Pad

Provides permanent foundation for outdoor units.

One-piece lightweight structural foam and molded from high-density polyethylene (HDPE), which makes them lightweight and easy to carry and install. The textured finish provides a non-skid surface so that the outdoor unit sits securely in one place. UV stable.

Disconnects

Positive unit disconnect. Single door enclosure. Fused and non-fused models available.

Fuses

30 and 60 amp fuses available.

Hail Guards

Protects outdoor coils on all sides without inhibiting airflow or performance. Self-tapping screws provided for installation. Flat shape allows for outdoor units to be placed close together. Each kit contains all required guards. Order one hail guard kit per outdoor unit module.

Indoor/Outdoor Wiring Cable

14-gauge, 4-conductor wire. THHN (Thermoplastic High Heat-resistant Nylon-coated) wire. Suitable for wet or dry locations. Rated up to 600V.

Refrigerant Line Sets

Refrigerant lines are shipped refrigeration clean. Lines are cleaned, dried, pressurized and sealed at factory.

Wall Brackets

Heavy duty 1/8 in. thick steel brackets for supporting outdoor units. Mount at any height to allow for easy maintenance under units. Pre-punched holes for easy installation. Powder coated gray finish. Load rating 600 lbs. per pair.

Whips

Heavy duty electrical whips are available in 8 and 10 gauge sizes. 6 ft. lengths. Weatherproof metal conduit.

INDOOR UNITS

Condensate Pumps

Quietly and efficiently removes condensate.

See Optional Accessories Table for available pumps.

A/C Easy Tee® Condensate Cleanout

Provides a condensate drain service port that is flexible and easy to use with nitrogen, water or shop vac.

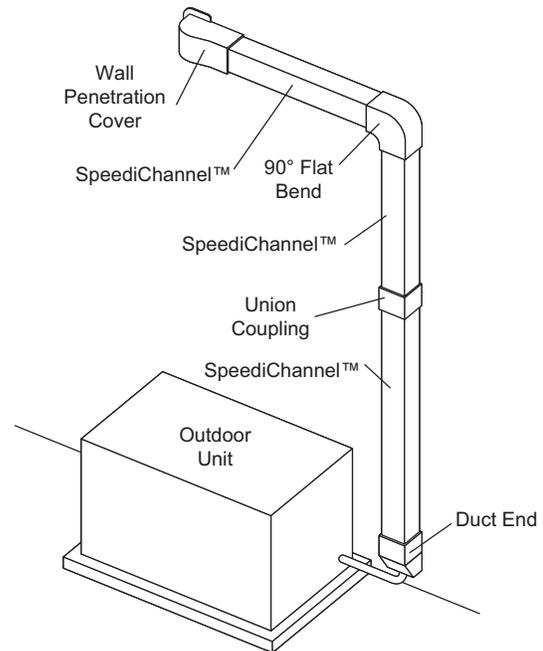
Screw cap on top allows easy access to condensate drain line.

SPEEDICHANNEL™ SYSTEM



SpeediChannel™ is a channel system used to cover system line sets. The two-part system has a base and a cover. The base is fastened to a wall or ceiling with plastic clips (SpeediClip™) that snap into a channel already molded into the base. The cover fits on top of the base. SpeediChannel is manufactured from rigid PVC, which is UL rated and resistant to UV light. The system is a natural color that closely matches typical mini-split outdoor units. However, it can be painted as desired to match any wall color.

Typical Application



OPTIONAL ACCESSORIES - ORDER SEPARATELY

SPEEDICHANNEL™ SYSTEM (continued)

SpeediChannel™ Starter Kit

The starter kit includes (1) Coupling, (1) Wall Penetration, (1) Inside Elbow, (1) Long Radius Flat Bend, (10) Speediclips™, (10) 11 in. Cable Ties, and (1) SpeediChannel Instruction Booklet.

Duct End

Duct Ends are used to terminate a run of SpeediChannel™ to a small opening just large enough for the line set and condensate drain line to pass through.



Flat Wall Escutcheon

Flat Wall Escutcheons are used to cover a rough opening in a soffit, wall, or ceiling penetration. One side of the escutcheon is flat to allow for a SpeediChannel™ to run along a wall and to penetrate through an adjacent wall or ceiling. This is the most common type of wall penetration. Furnished in two parts, the escutcheon easily snaps onto the SpeediChannel™.



Flex Joint

A Flex Joint is an accordion-style piece of SpeediChannel™. The flex joint can be extremely flexible when routing a SpeediChannel™ system around an obstacle. Each joint is 20 in. long and can be combined together for longer flex runs. The flex joint does not require the use of a union coupling. The flex joint slides tightly inside the SpeediChannel™ system.

T-Joint

T-Joints are used for creating a tee connection between three pieces of SpeediChannel™. Each tee is individually packed and furnished with stainless steel screws.



Union Coupling

Union Couplings are used for joining two pieces of SpeediChannel™. Each coupling is individually packed and furnished with stainless steel screws.



Wall Penetration Cover

Wall penetration covers are used to transition from the SpeediChannel™ system to a through wall penetration. Wall covers are designed to allow for easy installation, even after the line set has been installed. A hooking and fastening arrangement allows for quick installation. Each wall cover is individually packed, and furnished with stainless steel screws to attach the wall cover to the base. Three screws are necessary to fasten the wall cover to the wall construction, regardless of the type of installed system.



45° and 90° Flat Bend Elbows

45° Flat Bends are used to route the SpeediChannel™ around obstacles. Each bend is individually packed and furnished with stainless steel screws.



90° Inside Elbow

90° Inside Elbows are used to route the SpeediChannel™ around an inside corner. Each elbow is individually packed and furnished with stainless steel screws.



Mount Block White Qty. (2) 14 in. and (2) 36 in.

Mount Blocks are used as mounting bases when outdoor units must be bolted down. End caps (for aesthetics) come furnished with mounting bolts. Maximum load capacity is 900 pounds per mounting block. Installation temperatures range from -4°F to 140°F. Mount blocks fit all mini-split outdoor units with a sliding rail feature.



SPECIFICATIONS - MPA OUTDOOR UNITS
0.75 - 1.5 TON

Nominal Size - Tons		0.75	1	1.5		
Outdoor Unit Model No.		MPA009S4S	MPA012S4S	MPA018S4S		
Ambient Temperature Operating Range - °F	Cooling	5 - 122	5 - 122	5 - 122		
	Heating	-13 - 86	-13 - 86	-13 - 86		
Sound Data (dBA)	Cooling (115V)	51	52	---		
	Cooling (208/230V)	53	54	61		
	Heating (115V)	54	54	---		
	Heating (208/230V)	55	57	62		
Refrigerant	Charge furnished (R-410A)	2 lbs. 12 oz.	2 lbs. 12 oz.	4 lbs. 3 oz.		
	Maximum line length with furnished charge - ft.	25	25	25		
	Additional charge required per ft. - oz.	0.16	0.16	0.16		
Compressor	No. and Type	(1) Rotary	(1) Rotary	(1) Rotary		
	Refrigerant oil type	Ester Oil VG74	Ester Oil VG74	Ester Oil VG74		
	Refrigerant oil charge - oz.	12.5	12.5	15.2		
	Low ambient cut-off	-13°F	-13°F	-13°F		
Connections - in.	Liquid/Gas pipe (flare)	1/4 / 3/8	1/4 / 1/2	1/4 / 1/2		
	Maximum refrigerant pipe length - ft.	98	98	98		
	Max. difference in level of indoor unit - ft.	40	40	66		
Outdoor Fan	(No.) Diameter - in.	(1) - 16.5	(1) - 16.5	(1) - 18		
	Total air volume - cfm (115V)	1180	1180	---		
	Total air volume - cfm (208/230V)	1120	1180	1470		
	rpm (115V)	850	850	---		
	rpm (208/230V)	800	800	800		
Outdoor Coil	Number of rows	2	2	3		
	Fins per inch	21	21	18		
	Fin type	Hydrophilic aluminium				
	Tube outside diameter - in.	1/4	1/4	1/4		
	Tube type	Rifled copper tubing				
	Net face area - ft. ²	4.72	4.72	5.42		
Design Pressure	PSIG	550/340	550/340	550/340		
Shipping Data	Net/Shipping weight (lbs.)	83 / 88	83 / 88	111 / 120		
ELECTRICAL DATA						
Electrical Characteristics - 60 Hz - 1 Phase	115V	208/230V	115V	208/230V	208/230V	
¹ Maximum Overcurrent Protection (amps)	20	15	20	15	20	
² Minimum circuit ampacity	15	15	15	15	15	
Compressor Rated load amps	9	5.3	10	5.7	9.5	
Outdoor Fan Motor	Rated load amps	0.6	0.42	0.6	0.42	0.5
	Output - W	40	40	40	40	50

NOTE - Extremes of operating range are plus and minus 10% of line voltage.

¹ HACR type circuit breaker or fuse.

² Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

SPECIFICATIONS - MPA OUTDOOR UNITS **2 - 4 TON**

Nominal Size - Tons		2	2.5	3	4
Outdoor Unit Model No.		MPA024S4S	MPA030S4S	MPA036S4S	MPA048S4S
Ambient Temperature Operating Range - °F	Cooling	5 - 122	5 - 122	5 - 122	5 - 122
	Heating	-13 - 86	-13 - 86	-13 - 76	-13 - 76
Sound Data (dBA)	Cooling	59	59	62	63
	Heating	63	61	65	65
Refrigerant	Charge furnished (R-410A)	5 lbs. 3 oz.	6 lbs. 10 oz.	7 lbs. 13 oz.	9 lbs. 8 oz.
	Maximum line length with furnished charge - ft.	25	25	25	25
	Additional charge required per ft. - oz.	0.32	0.32	0.32	0.32
Compressor	No. and Type	Twin-Rotary	Rotary	Twin-Rotary	Twin-Rotary
	Refrigerant oil type	Ester Oil VG74	FY50S	FV50S	FV50S
	Refrigerant oil charge - oz.	27.7	36.1	36.1	47.3
	Low ambient cut-off	-13°F	-13°F	-13°F	-13°F
Connections - in.	Liquid/Gas pipe (flare)	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8
	Maximum refrigerant pipe length - ft.	164	164	213	213
	Max. difference in level of indoor unit - ft.	82	82	98	98
Outdoor Fan	(No.) Diameter - in.	(1) - 22	(1) - 22	(1) - 22	(2) - 20
	Total air volume - cfm	2355	2530	2940	4240
	rpm	850/750/700	950/800/750	950	860
Outdoor Coil	Number of rows	2.6	2.6	2.6	2
	Fins per inch	18	16	14	16
	Fin type	Hydrophilic aluminium			
	Tube outside diameter - in.	1/4	1/4	3/8	5/16
	Tube type	Rifled copper tubing			
	Net face area - ft. ²	8.12	7.79 / 4.75	8.16 / 4.75	14.14
Design Pressure	PSIG	550/340	550/340	550/340	550/340
Shipping Data	Net/Shipping weight (lbs.)	134 / 144	158 / 170	161 / 183	220 / 251
ELECTRICAL DATA					
Electrical Characteristics - 60 Hz - 1 Phase		208/230V	208/230V	208/230V	208/230V
	¹ Maximum Overcurrent Protection (amps)	25	30	50	50
	² Minimum circuit ampacity	18	20	30	35
	Compressor Rated load amps	12	14	22	23.5
Outdoor Fan Motor	Rated load amps	0.7	1.0	1.0	(2) 0.7
	Output - W	120	120	120	(2) 85

NOTE - Extremes of operating range are plus and minus 10% of line voltage.

¹ HACR type circuit breaker or fuse.

² Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

SPECIFICATIONS - WALL-MOUNTED INDOOR UNITS



Model No.	MWMA009S4	MWMA009S4	MWMA012S4	MWMA012S4
Nominal Tons	0.75	0.75	1	1
Power Supply - 60 hz - 1 phase	115V	208/230V	115V	208/230V
Rated load amps	0.25	0.06	0.4	0.06
Output (W)	20	20	20	20
Room Temperature Range (°F)	Cooling	62 - 90	62 - 90	62 - 90
	Heating	32 - 86	32 - 86	32 - 86
Air Volume - cfm (High/Medium/Low)	365/265/195	370/270/195	365/265/195	370/275/200
Sound Data (dBA) - Low/Medium/High	24/33/42	26.5/33.4/41.7	24/33/42	28.6/35.8/45.1
Piping Connections - Liquid/Gas - o.d. - flare - in.	1/4 / 3/8	1/4 / 3/8	1/4 / 1/2	1/4 / 1/2
Drain connection o.d. - in.	1	1	1	1
Net/Shipping weights - lbs.	20 / 26	20 / 26	20 / 26	20 / 27

SPECIFICATIONS - WALL-MOUNTED INDOOR UNITS

Model No.	MWMA018S4	MWMA024S4	MWMA030S4
Nominal Tons	1.5	2	2.5
Power Supply - 60 hz - 1 phase	208/230V	208/230V	208/230V
Rated load amps	0.13	0.3	0.5
Output (W)	58	60	60
Room Temperature Range (°F)	Cooling	62 - 90	62 - 90
	Heating	32 - 86	32 - 86
Air Volume - cfm (High/Medium/Low)	530/410/295	695/625/485	795/645/500
Sound Data (dBA) - Low/Medium/High	30.9/36.3/46.2	35.1/44.5/51.7	37.5/42/49
Piping Connections - Liquid/Gas - o.d. - flare - in.	1/4 / 1/2	3/8 / 5/8	3/8 / 5/8
Drain connection o.d. - in.	1	1	1
Total refrigerant pipe length - ft.	98	98	164
Net/Shipping weights - lbs.	27 / 35	40 / 54	40 / 51

SPECIFICATIONS - CASSETTE INDOOR UNITS



Model No.	M22A009S4	M22A012S4	M22A018S4
Nominal Tons	0.75	1	1.5
Power Supply - 60 hz - 1 phase	208/230V	208/230V	208/230V
Rated load amps	0.9	1.0	1.5
Output (W)	46	46	46
Room Temperature Range (°F)	Cooling	62 - 90	62 - 90
	Heating	32 - 86	32 - 86
Air Volume - cfm (High/Medium/Low)	375/300/255	380/310/260	560/485/415
Sound Data (dBA) - Low/Medium/High	33/37/41	36/39/43	36/39/44
Piping Connections - Liquid/Gas - o.d. - flare - in.	1/4 / 3/8	1/4 / 1/2	1/4 / 1/2
Drain connection o.d. - in.	1	1	1
Net/Shipping weights - lbs. Body	32 / 48	36 / 41	36 / 42

REQUIRED COMPONENTS - ORDERED SEPARATELY

Cassette Panel	13X04 (M0STAT62Q-1)	13X04 (M0STAT62Q-1)	13X04 (M0STAT62Q-1)
Net/Shipping weights - lbs.	6 / 10	6 / 10	6 / 10

SPECIFICATIONS - CASSETTE INDOOR UNITS

Model No.	M33A024S4	M33A036S4	M33A048S4
Nominal Tons	2	3	4
Power Supply - 60 hz - 1 phase	208/230V	208/230V	208/230V
Rated load amps	2.0	1.5	1.6
Output (W)	42	124	170
Room Temperature Range (°F)	Cooling	62 - 90	62 - 90
	Heating	32 - 86	32 - 86
Air Volume - cfm (High/Medium/Low)	700/635/575	1095/960/810	1175/1030/855
Sound Data (dBA) - Low/Medium/High	43/47/51	49/52/55	49/52/55
Piping Connections - Liquid/Gas - o.d. - flare - in.	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8
Drain connection o.d. - in.	1-1/4	1-1/4	1-1/4
Net/Shipping weights - lbs. Body	47 / 55	58 / 66	64 / 73

REQUIRED COMPONENTS - ORDERED SEPARATELY

Cassette Panel	13X05 (M0STAT63Q-1)	13X05 (M0STAT63Q-1)	13X05 (M0STAT63Q-1)
Net/Shipping weights - lbs.	12 / 18	12 / 18	12 / 18

SPECIFICATIONS - CEILING/FLOOR MOUNT INDOOR UNITS



Model No.	MCFA024S4	MCFA036S4	MCFA048S4
Nominal Tons	2	3	4
Power Supply - 60 hz - 1 phase	208/230V	208/230V	208/230V
Rated load amps	2	1.5	1.8
Output (W)	55	115	(2) 90
Room Temperature Range (°F)	Cooling	62 - 90	62 - 90
	Heating	32 - 86	32 - 86
Air Volume - cfm (High/Medium/Low)	760/710/600	1035/915/640	1350/1120/1000
Sound Data (dBA) - Low/Medium/High	42/48/53	43/49/54	52/54/57
Piping Connections - Liquid/Gas - o.d. - flare - in.	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8
Drain connection o.d. - in.	1	1	1
Net/Shipping weights - lbs.	59 / 70	69 / 82	84 / 97

SPECIFICATIONS - MEDIUM STATIC DUCTED INDOOR UNITS - 009-018



Model No.	MMDA009S4	MMDA012S4	MMDA018S4
Nominal Tons	0.75	1	1.5
Power Supply - 60 hz - 1 phase	208/230V	208/230V	208/230V
Rated load amps	0.9	1	1.5
Output (W)	55	55	90
Room Temperature Range (°F)	Cooling	62 - 90	62 - 90
	Heating	32 - 86	32 - 86
Air Volume - cfm (High/Medium/Low)	335/290/240	370/320/260	520/430/360
External Static Pressure (in. w.g)	0 - 0.18	0 - 0.18	0 - 0.28
Sound Data (dBA) - Low/Medium/High	31/35/38	31/37/44	37/39/41
Piping Connections - Liquid/Gas - o.d. - flare - in.	1/4 / 3/8	1/4 / 1/2	1/4 / 1/2
Drain connection o.d. - in.	1	1	1
Net/Shipping weights - lbs.	40 / 51	42 / 52	51 / 61

SPECIFICATIONS - MEDIUM STATIC DUCTED INDOOR UNITS - 024-048

Model No.	MMDA024S4	MMDA036S4	MMDA048S4
Nominal Tons	2	3	4
Power Supply - 60 hz - 1 phase	208/230V	208/230V	208/230V
Rated load amps	2	1.5	1.8
Output (W)	90	150	240
Room Temperature Range (°F)	Cooling	62 - 90	62 - 90
	Heating	32 - 86	32 - 86
Air Volume - cfm (High/Medium/Low)	820/620/520	1120/940/680	1470/1180/940
External Static Pressure (in. w.g)	0 - 0.40	0 - 0.40	0 - 0.40
Sound Data (dBA) - Low/Medium/High	43/48/53	47/51/53	46/49/52
Piping Connections - Liquid/Gas - o.d. - flare - in.	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8
Drain connection o.d. - in.	1	1	1
Net/Shipping weights - lbs.	58 / 69	77 / 92	95 / 114

OPTIONAL ACCESSORIES - ORDER SEPARATELY

Description	Catalog No.	Size						
		09	12	18	24	30	36	48
OUTDOOR UNIT								
Condenser Pad (18 x 38 x 3)	Y5014	•	•	•	•	•	•	•
Disconnects	30 amp, fused, 1 ph	27P37	•	•	•	•	•	•
	60 amp, non-fused, 1 ph	27P39	•	•	•	•	•	•
Fuses	30A	83P75	•	•	•	•	•	•
	60A	83P77	•	•	•	•	•	•
Hail Guards	M9GARD10Q-1	15D21	•	•	N/A			
	M9GARD11Q-1	15D22	N/A		•	N/A		
	M9GARD12Q-1	15D23	N/A			•	•	N/A
	M9GARD13Q-1	15D24	N/A					•
Line Sets	1/4 in. x 3/8 in. x 25 ft.	90X53	•	N/A				
	1/4 in. x 3/8 in. x 50 ft.	X0258	•	N/A				
	1/4 in. x 1/2 in. x 25 ft.	90X52	N/A	•	•	N/A		
	1/4 in. x 1/2 in. x 50 ft.	X0259	N/A	•	•	N/A		
	3/8 in. x 5/8 in. x 25 ft.	X8406	N/A		•	•	•	•
	3/8 in. x 5/8 in. x 50 ft.	X8407	N/A		•	•	•	•
Wall Brackets	30 inch	Y5020	•	•	•	•	N/A	
	36 inch	Y5021	N/A				•	•
Whips	10 Gauge - 1/2 in. x 6 ft.	29P54	•	•	•	•	•	•
	8 Gauge - 3/4 in. x 6 ft.	27P44	•	•	•	•	•	•
INDOOR UNIT								
¹ Diversitech Condensate Pumps with Reservoir	ClearVue Mini™ - 7.9 US gallons per hour, 35 ft. lift - 120/240V	Y5170	•	•	•	•	•	•
	Mini-Split Pump - 4 US gallons per hour, 20 ft. lift - 115V	Y7946	•	•	N/A			
	Mini-Split Pump - 4 US gallons per hour, 20 ft. lift - 230V	Y7949	•	•	•	•	•	•
¹ Blue Diamond® Condensate Pumps with Reservoir	MicroBlue® - 1.3 US gallons per hour, 6 ft. lift - 110v-230V	14T74	•	•	•	N/A		
	MaxiBlue® - 3.7 US gallons per hour, 16.5 ft. lift - 208-230V	14T69	N/A			•	•	N/A
	MegaBlue® - 13.2 US gallons per hour, 23 ft. lift - 110v-230V	14T71	N/A					•
	MultiTank Kit	14T75	N/A		•	•	•	•
	Sensor Cable Extension - 16 ft.	14T76	•	•	•	•	•	•
A/C Easy Tee® Condensate Cleanout	Y7947	•	•	•	•	•	•	
CONTROLS								
Wireless Remote Control	M0STAT60Q-1	14A65	•	•	•	•	•	•
Wired Remote Control	M0STAT61Q-1	14A66	•	•	•	•	•	
Extension Cable for Wired Remote Control - 20 ft.		Y8008	•	•	•	•	•	
NOTE - Controls above are furnished as standard with the indoor units. As an option, a wireless control can be ordered for a ducted indoor unit and a wired control can be ordered for a wall-mount, cassette or ceiling/floor mount unit if desired.								
Programmable Controller	M0STAT64Q-1	15D30	•	•	•	•	•	
Extension Cable for Programmable Controller - 20 ft.	M0CTRL64Q-1	Y8738	•	•	•	•	•	
Indoor/Outdoor Wiring Cable - 14 Gauge, 4 conductor wire, THHN, 250 ft.		Y2067	•	•	•	•	•	
SPEEDICHANNEL™ SYSTEM								
SpeediChannel™ Starter Kit - 4 in.		Y3387	•	•	•	•	•	
SpeediChannel - 4 in. x 6-1/2 ft. (qty. 6)		Y3388	•	•	•	•	•	
Union Coupling - 4 in.		Y3389	•	•	•	•	•	
90° Flat Bend Elbow - 4 in.		Y3390	•	•	•	•	•	
90° Inside Elbow - 4 in.		Y3391	•	•	•	•	•	
45° Flat Bend Elbow - 4 in.		Y3392	•	•	•	•	•	
Flex Joint - 4 in.		Y3393	•	•	•	•	•	
T-Joint - 4 in.		Y3394	•	•	•	•	•	
Duct End - 4 in.		Y3395	•	•	•	•	•	
Flat Wall Escutcheon - 4 in.		Y3396	•	•	•	•	•	
Wall Penetration Cover - 4 in.		Y3399	•	•	•	•	•	
Mount Block (White) Qty, 2 - 14 in.		Y3397	•	•	•	•	•	
Mount Block (White) Qty, 2 - 36 in.		Y3398	•	•	•	•	•	

¹ Y7946, Y7949 and 14T74 condensate pumps can be installed inside the indoor units. All other pumps must be installed external to the indoor unit.

AHRI SYSTEM MATCHES

Indoor Unit Type	Outdoor Unit	Indoor Unit	Cooling Capacity	SEER	EER	Heat Capacity		HSPF (IV)	AHRI Reference
						High	Low		
Wall-Mounted Non-Ducted	MPA009S4S-1L	MWMA009S4-1L	9,000	23.50	14.50	10,000	5,700	10.0	8129512
	MPA012S4S-1L	MWMA012S4-1L	12,000	21.50	13.00	12,000	7,600	10.0	8129519
	MPA009S4S-1P	MWMA009S4-1P	9,000	23.50	14.50	10,000	5,700	10.0	8129529
	MPA012S4S-1P	MWMA012S4-1P	12,000	21.50	13.00	12,000	7,600	10.0	8129532
	MPA018S4S-1P	MWMA018S4-1P	17,500	19.50	12.50	18,000	10,400	9.6	8129536
	MPA024S4S-1P	MWMA024S4-1P	23,000	20.00	12.50	25,000	17,800	10.0	8129542
	MPA030S4S-1P	MWMA030S4-1P	30,000	16.50	9.50	32,000	20,600	9.6	8129550
Cassette Non-Ducted	MPA009S4S-1P	M22A009S4-1P	9,000	19.00	13.00	10,000	6,400	10.0	8129557
	MPA012S4S-1P	M22A012S4-1P	12,000	20.50	13.00	12,000	7,200	10.0	8129566
	MPA018S4S-1P	M22A018S4-1P	16,000	19.00	12.50	18,000	10,700	9.0	8129570
	MPA024S4S-1P	M33A024S4-1P	23,000	17.50	10.30	25,000	16,000	10.0	8232194
	MPA036S4S-1P	M33A036S4-1P	36,000	15.00	8.00	38,000	25,000	10.5	8232195
	MPA048S4S-1P	M33A048S4-1P	44,500	15.00	8.00	49,000	33,000	10.0	8232196
Ceiling/Floor Mount Non-Ducted	MPA024S4S-1P	MCFA024S4-1P	23,000	18.50	10.00	25,000	15,200	10.5	8232199
	MPA036S4S-1P	MCFA036S4-1P	36,000	15.00	8.00	38,000	25,200	10.0	8232200
	MPA048S4S-1P	MCFA048S4-1P	46,500	15.50	8.00	50,000	34,000	10.0	8232201
Medium Static Ducted	MPA009S4S-1P	MMDA009S4-1P	9,000	19.00	13.50	10,000	6,100	9.6	8129583
	MPA012S4S-1P	MMDA012S4-1P	11,000	18.00	12.50	11,600	7,000	10.0	8129582
	MPA018S4S-1P	MMDA018S4-1P	16,000	18.50	12.50	18,000	11,000	9.6	8129584
	MPA024S4S-1P	MMDA024S4-1P	23,000	19.00	12.50	24,400	15,600	10.5	8129593
	MPA036S4S-1P	MMDA036S4-1P	36,000	15.50	8.50	38,000	24,400	10.5	8129594
	MPA048S4S-1P	MMDA048S4-1P	48,000	16.50	8.20	50,000	35,000	10.0	8129606

Ratings are AHRI certified to AHRI Standard 210/240-2008;

- Cooling Ratings - 80°F dry bulb/67°F wet bulb entering indoor coil air and 95°F wet bulb/75°F dry bulb outdoor air temperature.
- High Temperature Heating Ratings - 70°F dry bulb/60°F wet bulb entering indoor coil air and 47°F dry bulb/43°F wet bulb outdoor air temperature.
- Low Temperature Heating Ratings - 70°F dry bulb/60°F wet bulb entering indoor coil air and 17°F dry bulb/15°F wet bulb outdoor air temperature.

To convert HSPF from Region IV to Region V - Divide by 1.15.

COOLING CAPACITY - 009

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)							
	65°F / 54°F		70°F / 59°F		75°F / 63°F		80°F / 67°F	
	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh
5	5.28	5.02	5.51	5.18	5.75	5.35	5.98	5.50
15	5.57	5.24	5.82	5.41	6.07	5.64	6.31	5.81
25	5.87	5.51	6.13	5.70	6.39	5.88	6.65	6.05
35	6.05	5.62	6.31	5.87	6.57	6.04	6.83	6.21
45	6.23	5.79	6.49	5.97	6.75	6.14	7.01	6.31
55	6.50	6.05	6.80	6.26	7.11	6.47	7.41	6.67
65	6.78	6.23	7.12	6.48	7.47	6.72	7.81	6.95
75	7.05	6.49	7.44	6.77	7.83	7.04	8.21	7.31
85	8.47	7.71	8.83	7.95	9.18	8.17	9.54	8.39
95	8.25	7.51	8.50	7.65	8.75	7.79	9.00	7.92
105	8.12	7.31	8.38	7.46	8.64	7.60	8.90	7.83
115	7.93	7.13	8.20	7.30	8.48	7.46	8.75	7.61
122	7.73	6.88	8.02	7.06	8.31	7.31	8.60	7.48

HEATING CAPACITY - 009

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb)			
	60°F	65°F	70°F	75°F
	Total mBtuh	Total mBtuh	Total mBtuh	Total mBtuh
57	10.51	10.40	10.29	10.18
47	10.35	10.17	10.00	9.83
35	10.21	10.08	9.95	9.83
17	8.16	8.05	7.95	7.84
5	6.57	6.43	6.29	6.15
-5	5.03	4.78	4.54	4.30
-13	4.87	4.62	4.36	4.11

COOLING CAPACITY - 012

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)							
	65°F / 54°F		70°F / 59°F		75°F / 63°F		80°F / 67°F	
	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh
5	7.31	6.72	7.46	6.79	7.62	6.85	7.77	6.91
15	7.72	7.10	7.88	7.17	8.04	7.24	8.20	7.30
25	8.12	7.39	8.29	7.46	8.46	7.53	8.63	7.60
35	8.23	7.49	8.40	7.56	8.58	7.64	8.75	7.70
45	8.34	7.50	8.52	7.58	8.70	7.65	8.88	7.72
55	8.86	7.98	9.08	8.08	9.30	8.18	9.52	8.28
65	9.39	8.36	9.65	8.49	9.91	8.62	10.16	8.84
75	9.91	8.82	10.21	8.99	10.51	9.14	10.81	9.29
85	10.55	9.28	10.95	9.53	11.35	9.88	11.75	10.11
95	11.12	9.79	11.42	9.93	11.71	10.07	12.00	10.20
105	10.68	9.40	10.96	9.53	11.24	9.67	11.52	9.79
115	9.57	8.32	9.82	8.44	10.07	8.56	10.32	8.67
122	8.45	7.35	8.68	7.46	8.90	7.56	9.12	7.66

HEATING CAPACITY - 012

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb)			
	60°F	65°F	70°F	75°F
	Total mBtuh	Total mBtuh	Total mBtuh	Total mBtuh
57	12.30	12.13	11.97	11.80
47	12.27	12.14	12.00	11.87
35	10.95	10.85	10.75	10.66
17	8.77	8.60	8.43	8.25
5	6.94	6.72	6.49	6.27
-5	5.55	5.34	5.13	4.93
-13	5.41	5.20	5.00	4.79

COOLING CAPACITY - O18

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)							
	65°F / 54°F		70°F / 59°F		75°F / 63°F		80°F / 67°F	
	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh
5	11.72	10.55	11.83	10.53	11.94	10.51	12.05	10.48
15	12.38	11.14	12.49	11.12	12.61	11.09	12.72	11.07
25	13.03	11.59	13.15	11.57	13.27	11.54	13.39	11.51
35	13.16	11.72	13.31	11.71	13.45	11.70	13.59	11.68
45	13.30	11.70	13.46	11.71	13.62	11.72	13.79	11.86
55	13.08	11.51	13.64	11.87	14.20	12.21	14.77	12.55
65	12.85	11.18	13.81	11.88	14.78	12.71	15.75	13.38
75	14.10	12.27	15.12	13.00	16.14	13.72	17.16	14.42
85	15.36	13.21	16.43	14.13	17.51	14.88	18.58	15.61
95	14.89	12.81	15.94	13.55	16.98	14.26	18.02	14.96
105	14.15	12.17	15.14	12.87	16.13	13.55	17.12	14.21
115	12.66	10.76	13.55	11.38	14.43	11.98	15.32	12.72
122	11.17	9.50	11.95	10.04	12.74	10.57	13.52	11.08

HEATING CAPACITY - O18

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb)			
	60°F	65°F	70°F	75°F
	Total mBtuh	Total mBtuh	Total mBtuh	Total mBtuh
57	20.75	20.30	19.86	19.42
47	18.53	18.26	18.00	17.74
35	15.67	15.27	14.88	14.48
17	12.81	12.44	12.07	11.71
5	9.91	9.43	8.95	8.46
-5	7.81	7.52	7.23	6.93
-13	7.60	7.33	7.05	6.78

COOLING CAPACITY - 024

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)							
	65°F / 54°F		70°F / 59°F		75°F / 63°F		80°F / 67°F	
	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh
5	16.09	14.32	16.31	14.35	16.54	14.39	16.76	14.41
15	16.98	15.11	17.22	15.15	17.45	15.18	17.69	15.21
25	17.87	15.73	18.12	15.77	18.37	15.80	18.62	15.83
35	18.00	15.84	18.25	15.88	18.50	15.91	18.75	15.94
45	18.12	15.77	18.37	15.80	18.62	15.83	18.87	16.04
55	18.44	16.04	19.03	16.36	19.61	16.67	20.19	16.96
65	18.76	16.13	19.68	16.72	20.59	17.50	21.51	18.07
75	19.08	16.41	20.33	17.28	21.58	18.12	22.83	18.95
85	18.80	16.17	20.17	17.15	21.54	18.10	22.91	19.02
95	18.53	15.75	20.02	16.82	21.51	17.85	23.00	19.09
105	17.60	14.96	19.02	15.98	20.44	16.96	21.85	17.92
115	15.75	13.23	17.02	14.12	18.28	15.18	19.55	16.03
122	13.90	11.67	15.02	12.46	16.13	13.23	17.25	13.97

HEATING CAPACITY - 024

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb)			
	60°F	65°F	70°F	75°F
	Total mBtuh	Total mBtuh	Total mBtuh	Total mBtuh
57	26.02	25.87	25.72	25.58
47	25.88	25.44	25.00	24.56
35	22.45	21.84	21.23	20.62
17	21.31	20.46	19.61	18.76
5	18.08	17.23	16.38	15.53
-5	16.45	15.30	14.14	12.99
-13	16.29	15.10	13.92	12.73

COOLING CAPACITY - 030

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)							
	65°F / 54°F		70°F / 59°F		75°F / 63°F		80°F / 67°F	
	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh
5	20.38	16.71	21.23	17.19	22.08	17.66	22.93	18.34
15	21.51	17.64	22.41	18.15	23.30	18.64	24.20	19.12
25	22.64	18.34	23.59	18.87	24.53	19.62	25.47	20.12
35	23.12	18.72	23.88	19.10	24.64	19.47	25.41	19.82
45	23.62	18.90	24.55	19.64	25.48	20.13	26.41	20.60
55	24.13	19.30	25.23	19.93	26.32	20.53	27.42	21.39
65	24.67	19.73	26.28	20.76	27.89	21.75	29.50	22.71
75	25.21	19.91	27.33	21.32	29.45	22.97	31.07	23.92
85	25.69	20.30	27.39	21.36	29.09	22.40	30.79	23.40
95	26.18	20.42	27.45	21.41	28.73	22.12	30.00	22.80
105	24.08	18.78	25.25	19.45	26.43	20.08	27.60	20.98
115	21.46	16.74	22.51	17.33	23.56	17.90	24.60	18.45
122	18.32	14.11	19.22	14.60	20.11	15.28	21.00	15.75

HEATING CAPACITY - 030

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb)			
	60°F	65°F	70°F	75°F
	Total mBtuh	Total mBtuh	Total mBtuh	Total mBtuh
57	34.63	33.62	32.62	31.61
47	33.43	32.72	32.00	31.28
35	30.29	29.82	29.35	28.88
17	25.27	24.70	24.13	23.56
5	20.14	19.78	19.41	19.04
-5	17.09	16.71	16.33	15.95
-13	16.78	16.40	16.02	15.64

COOLING CAPACITY - 036

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)							
	65°F / 54°F		70°F / 59°F		75°F / 63°F		80°F / 67°F	
	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh
5	19.84	15.87	20.33	16.06	20.82	16.24	21.31	16.62
15	20.94	16.75	21.46	16.95	21.97	17.14	22.49	17.32
25	22.04	17.41	22.59	17.62	23.13	18.04	23.67	18.23
35	22.39	17.69	22.88	17.85	23.37	17.99	23.86	18.13
45	23.65	18.45	24.47	19.08	25.28	19.47	26.10	19.84
55	24.91	19.43	26.06	20.06	27.20	20.67	28.34	21.54
65	27.09	21.13	28.94	22.28	30.79	23.40	32.64	24.48
75	29.26	22.53	31.82	24.18	34.38	26.13	36.94	27.70
85	31.67	24.39	34.35	26.10	36.02	27.01	38.69	29.02
95	28.31	21.51	30.87	23.46	33.44	25.08	36.00	26.64
105	26.04	19.79	28.40	21.30	30.76	23.07	33.12	24.51
115	23.21	17.64	25.32	18.99	27.42	20.29	29.52	21.55
122	19.82	14.86	21.61	16.21	23.41	17.32	25.20	18.40

HEATING CAPACITY - 036

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb)			
	60°F	65°F	70°F	75°F
	Total mBtuh	Total mBtuh	Total mBtuh	Total mBtuh
57	40.61	39.59	38.57	37.56
47	38.95	38.47	38.00	37.53
35	34.36	33.85	33.34	32.83
17	30.08	29.48	28.87	28.27
5	27.77	26.71	25.65	24.60
-5	23.63	22.59	21.55	20.51
-13	23.22	22.18	21.14	20.10

COOLING CAPACITY - 048

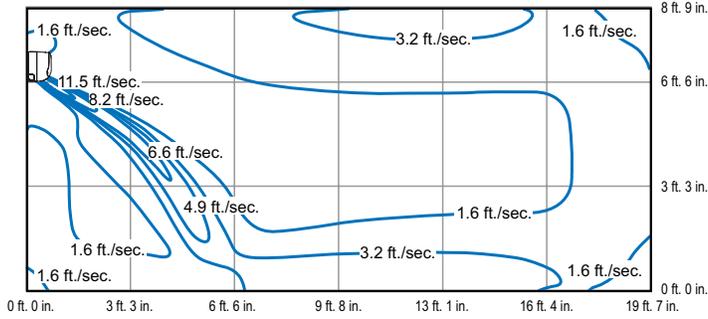
Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)							
	65°F / 54°F		70°F / 59°F		75°F / 63°F		80°F / 67°F	
	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh
5	26.45	19.84	27.10	20.06	27.76	20.54	28.41	20.74
15	27.92	20.94	28.61	21.17	29.30	21.39	29.99	21.59
25	29.39	21.75	30.12	22.29	30.84	22.51	31.57	22.73
35	29.85	22.09	30.51	22.27	31.16	22.43	31.81	22.90
45	31.31	23.17	32.35	23.61	33.39	24.04	34.43	24.44
55	32.76	23.92	34.19	24.62	35.62	25.64	37.04	26.30
65	35.21	25.70	37.48	26.99	39.76	28.23	42.03	29.84
75	37.66	27.11	40.78	29.36	43.90	31.17	47.02	32.91
85	37.90	27.29	41.66	29.58	45.41	32.24	49.17	34.42
95	36.16	26.04	40.11	28.48	44.05	30.84	48.00	33.60
105	33.27	23.62	36.90	26.20	40.53	28.37	44.16	30.47
115	29.65	21.05	32.89	23.02	36.12	25.29	39.36	27.16
122	25.31	17.97	28.08	19.65	30.84	21.28	33.60	23.18

HEATING CAPACITY - 048

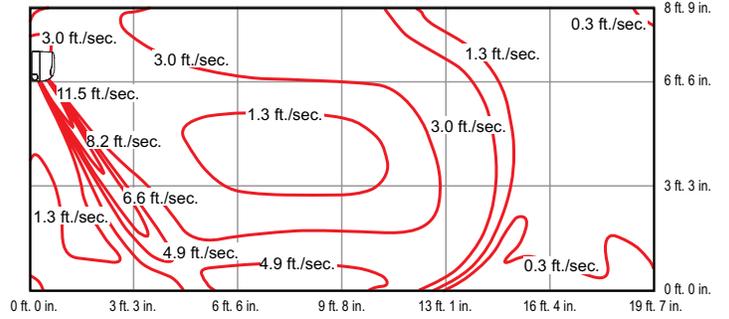
Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb)			
	60°F	65°F	70°F	75°F
	Total mBtuh	Total mBtuh	Total mBtuh	Total mBtuh
57	55.73	53.69	51.66	49.62
47	52.91	51.46	50.00	48.55
35	50.03	47.30	44.58	41.85
17	36.01	35.50	35.00	34.50
5	22.13	22.02	21.90	21.79
-5	17.46	17.45	17.44	17.43
-13	16.99	16.99	17.00	17.00

AIR THROW DATA - WALL-MOUNTED INDOOR UNITS

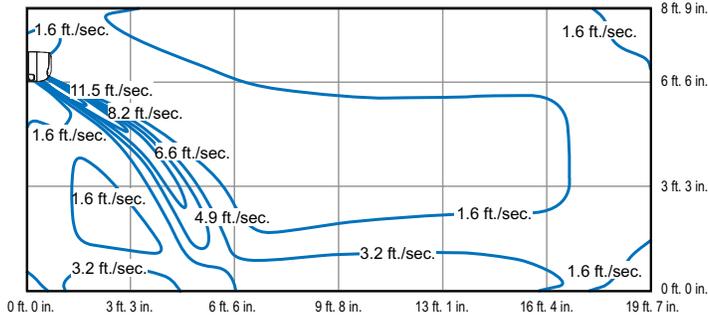
MWMA009S4 - COOLING



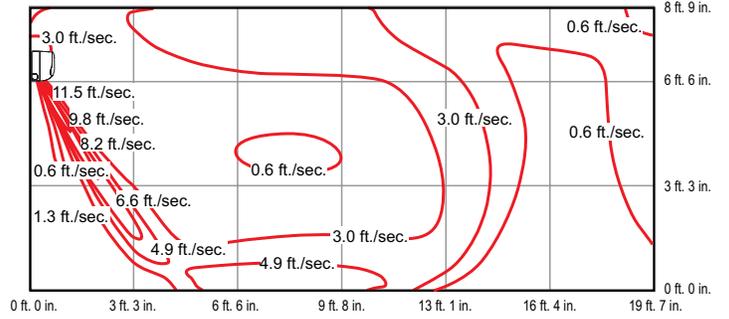
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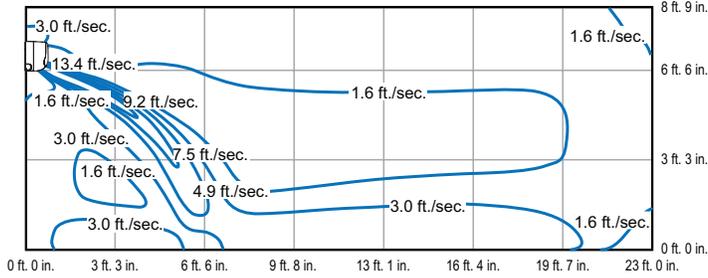
MWMA012S4 - COOLING



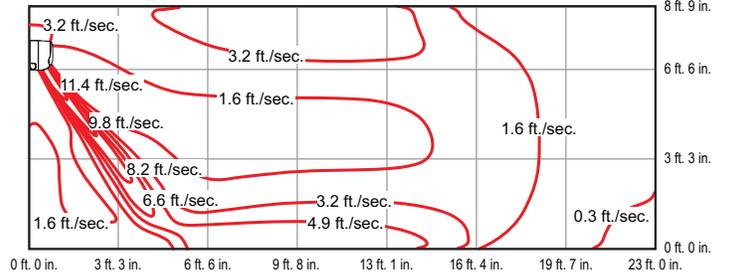
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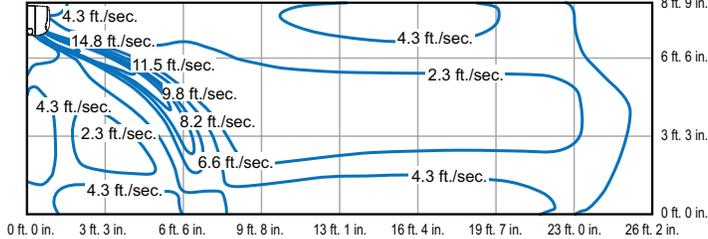
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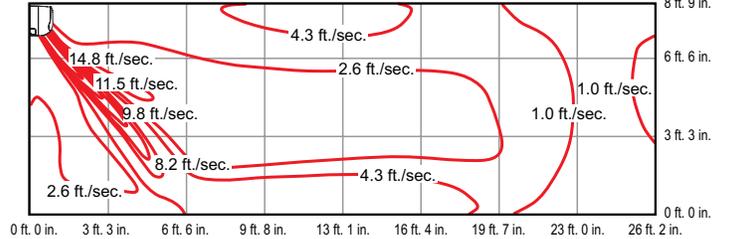
MWMA018S4 - HEATING



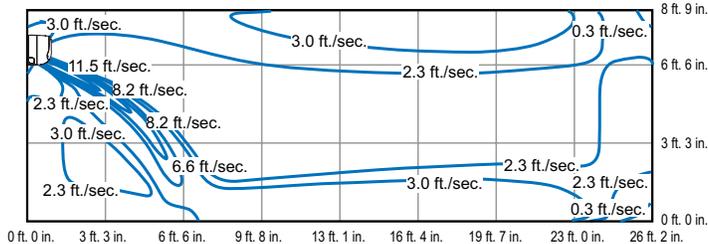
MWMA024S4 - COOLING



MWMA024S4 - HEATING



MWMA030S4 - COOLING

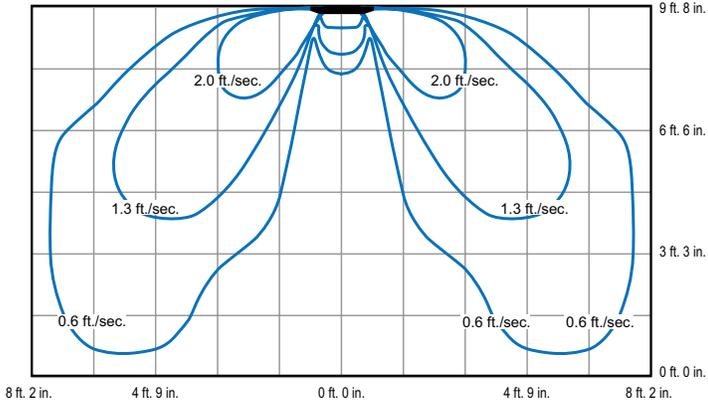


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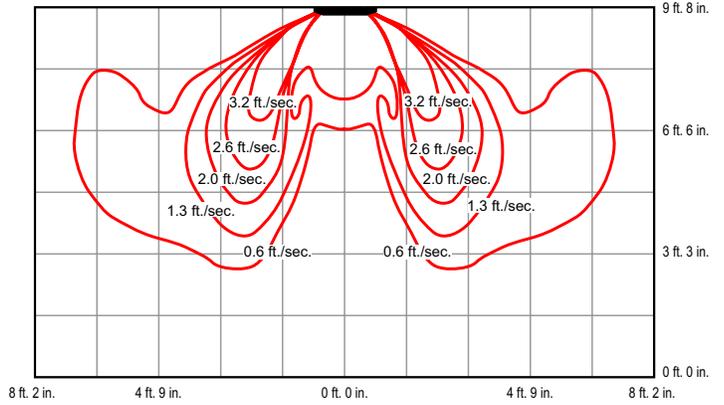


AIR THROW DATA - CASSETTE INDOOR UNITS

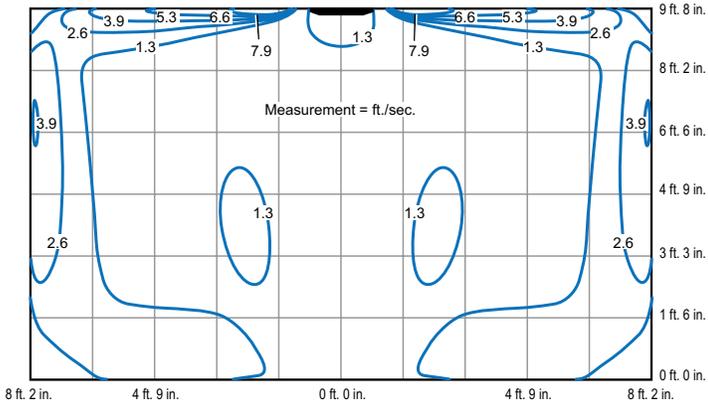
M22A009S4 AND M22A012S4 - COOLING



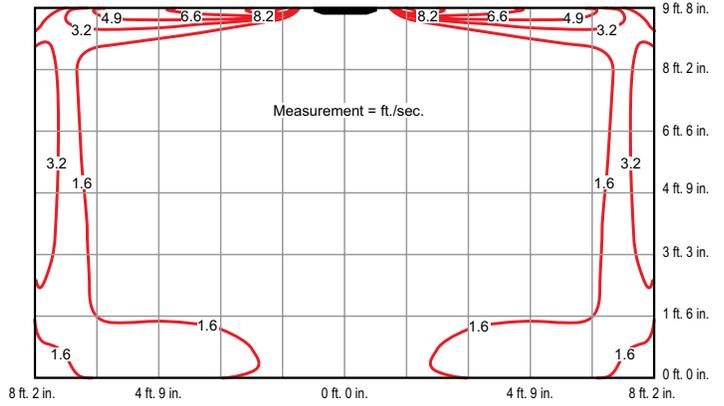
M22A009S4 AND M22A012S4 - HEATING



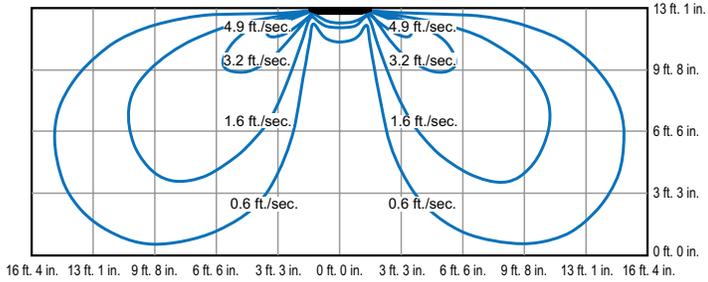
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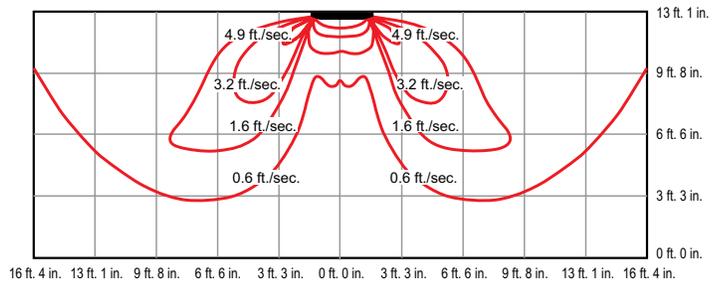
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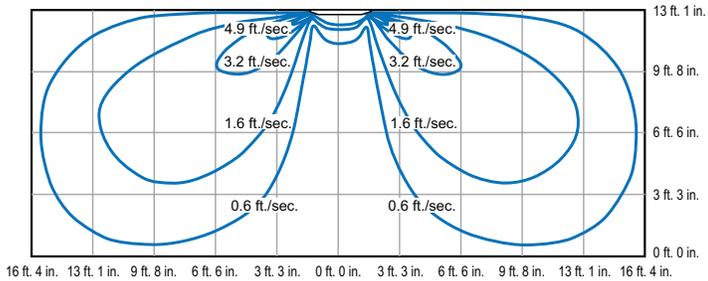
M33A024S4 - COOLING



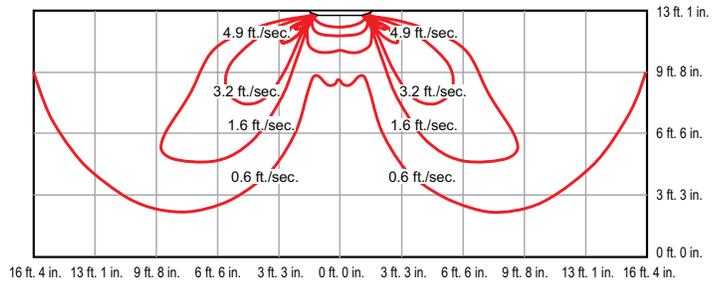
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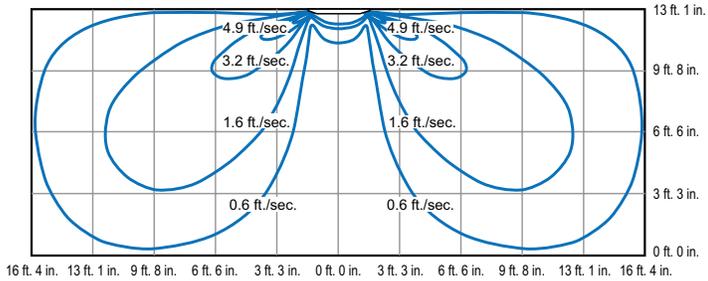
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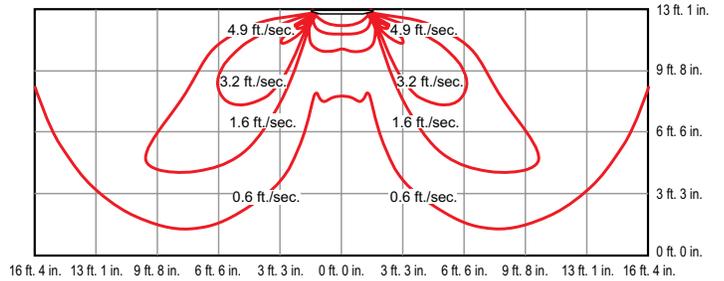
M33A036S4 - HEATING



M33A048S4 - COOLING

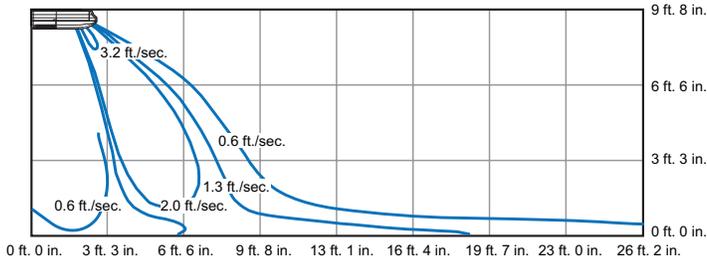


M33A048S4 - HEATING

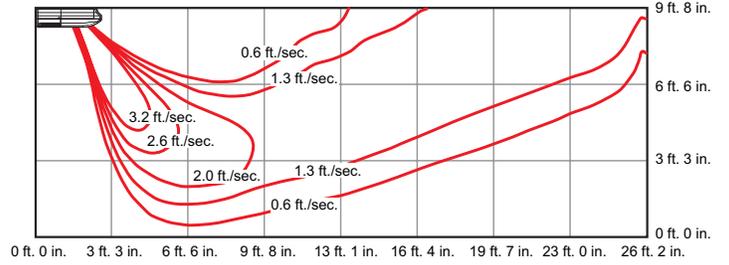


AIR THROW DATA - CEILING/FLOOR MOUNT INDOOR UNITS

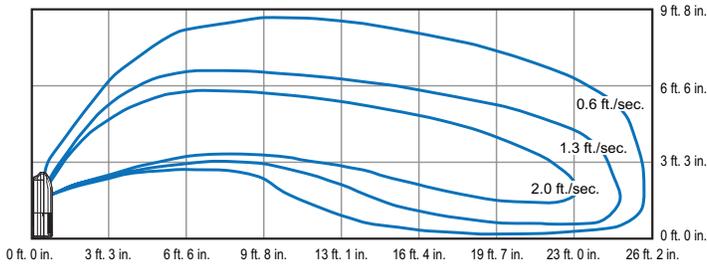
MCFA024S4 - COOLING - CEILING



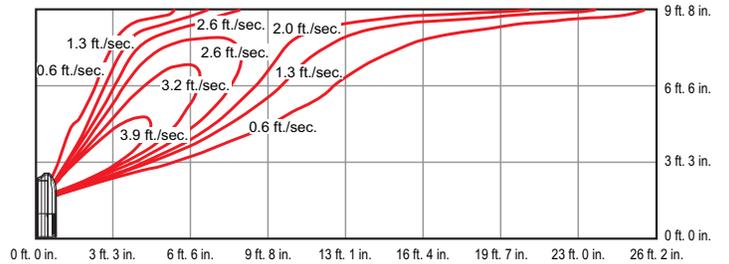
MCFA024S4 - HEATING - CEILING



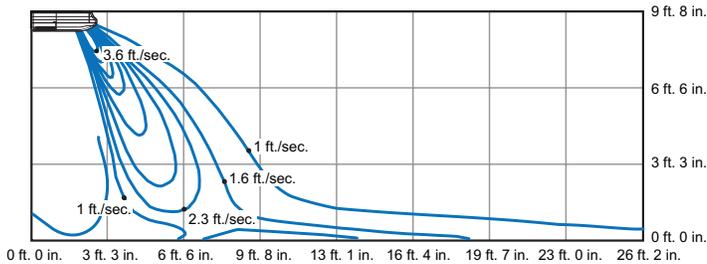
MCFA024S4 - COOLING - FLOOR



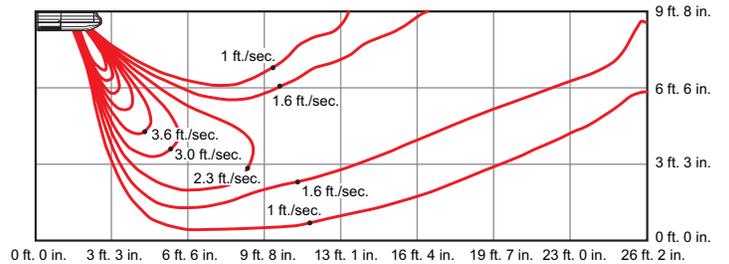
MCFA024S4 - HEATING - FLOOR



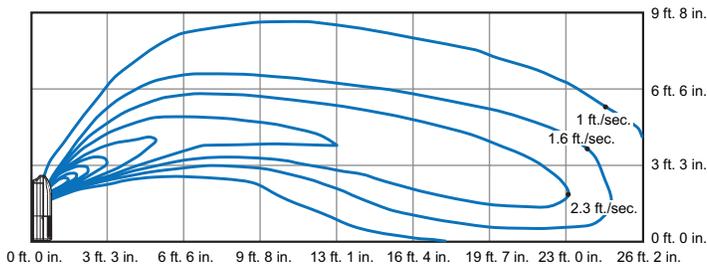
MCFA036S4 - CEILING - COOLING



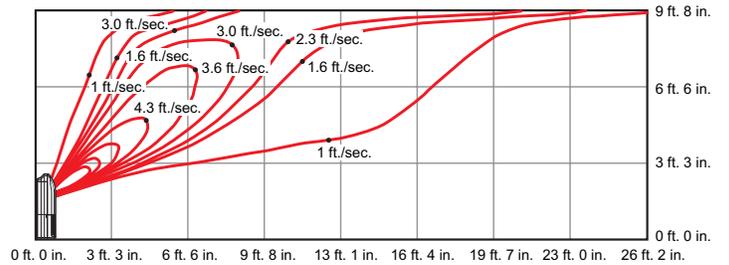
MCFA036S4 - CEILING - HEATING



MCFA036S4 - FLOOR - COOLING

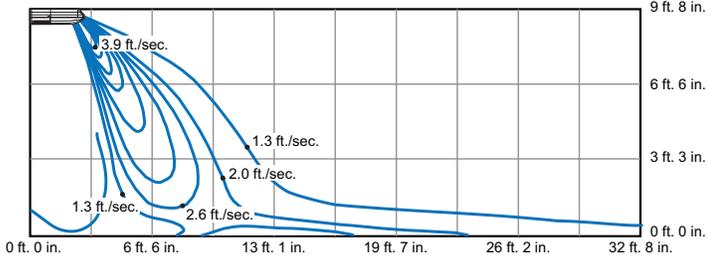


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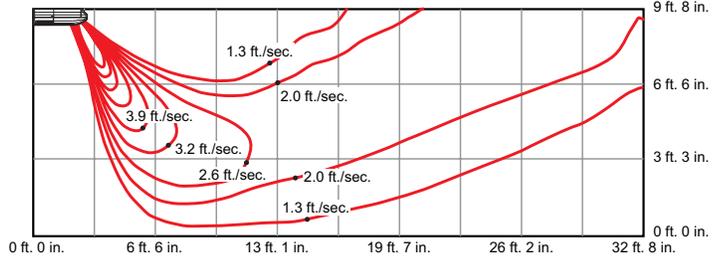


AIR THROW DATA - CEILING/FLOOR MOUNT INDOOR UNITS

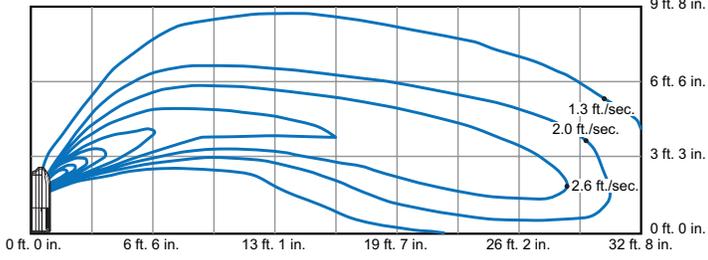
MCFA048S4 - CEILING - COOLING



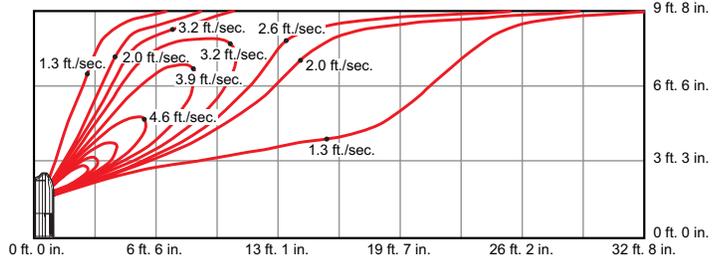
MCFA048S4 - CEILING - COOLING



MCFA048S4 - FLOOR - COOLING

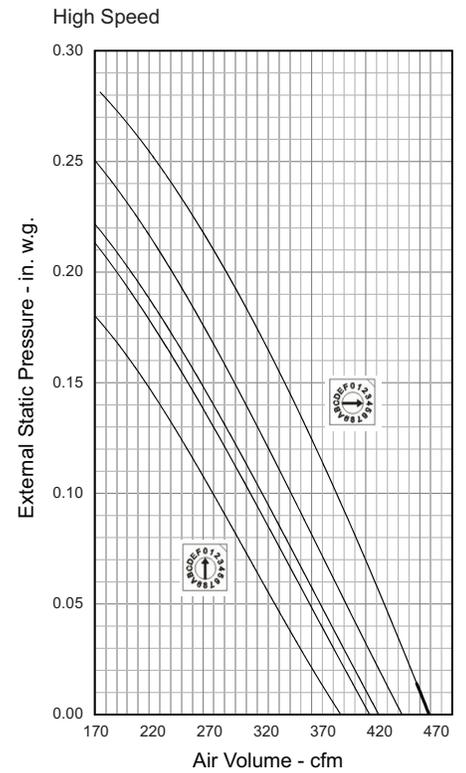
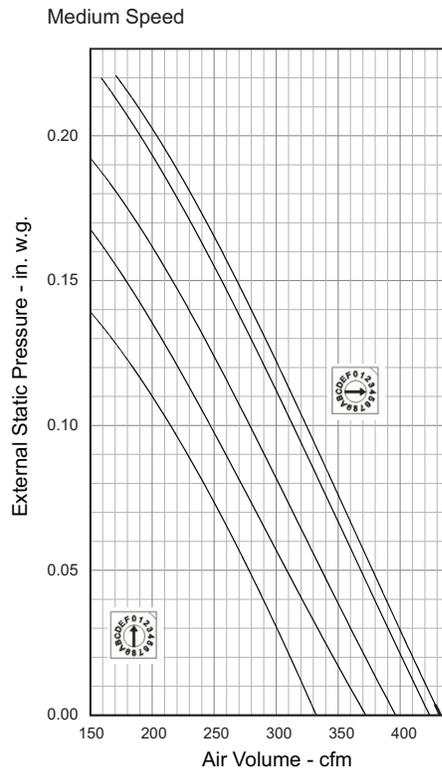
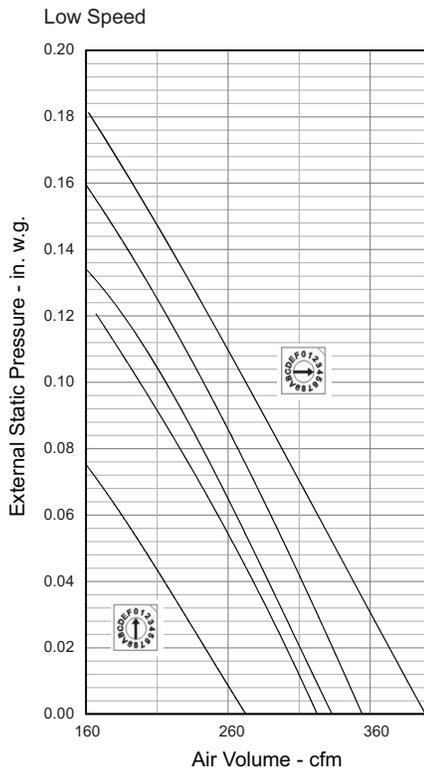


MCFA048S4 - FLOOR - HEATING

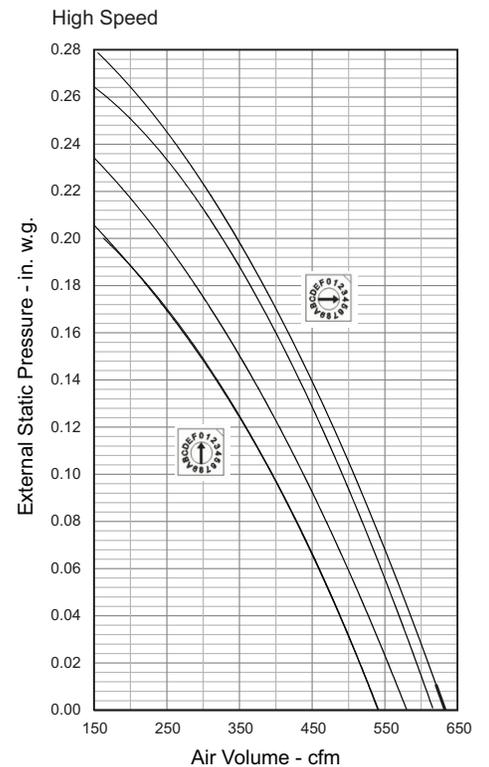
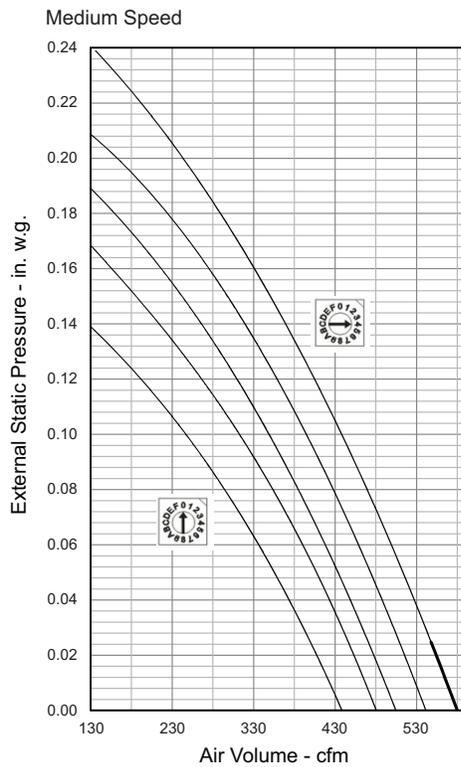
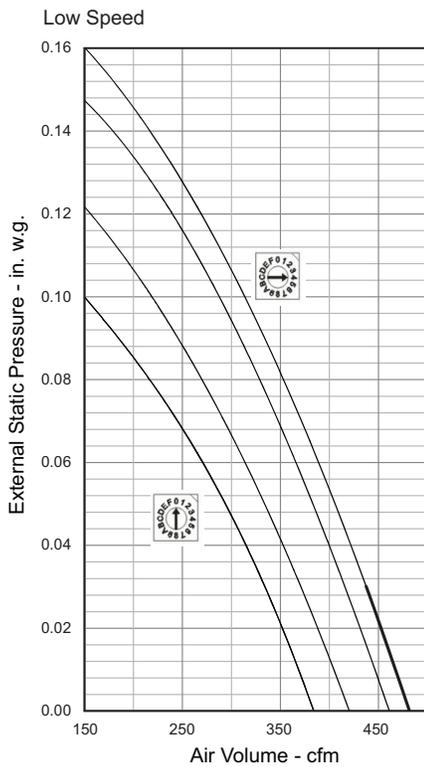


BLOWER DATA - MEDIUM STATIC DUCTED INDOOR UNITS

MMDA009S4, MMDA012S4

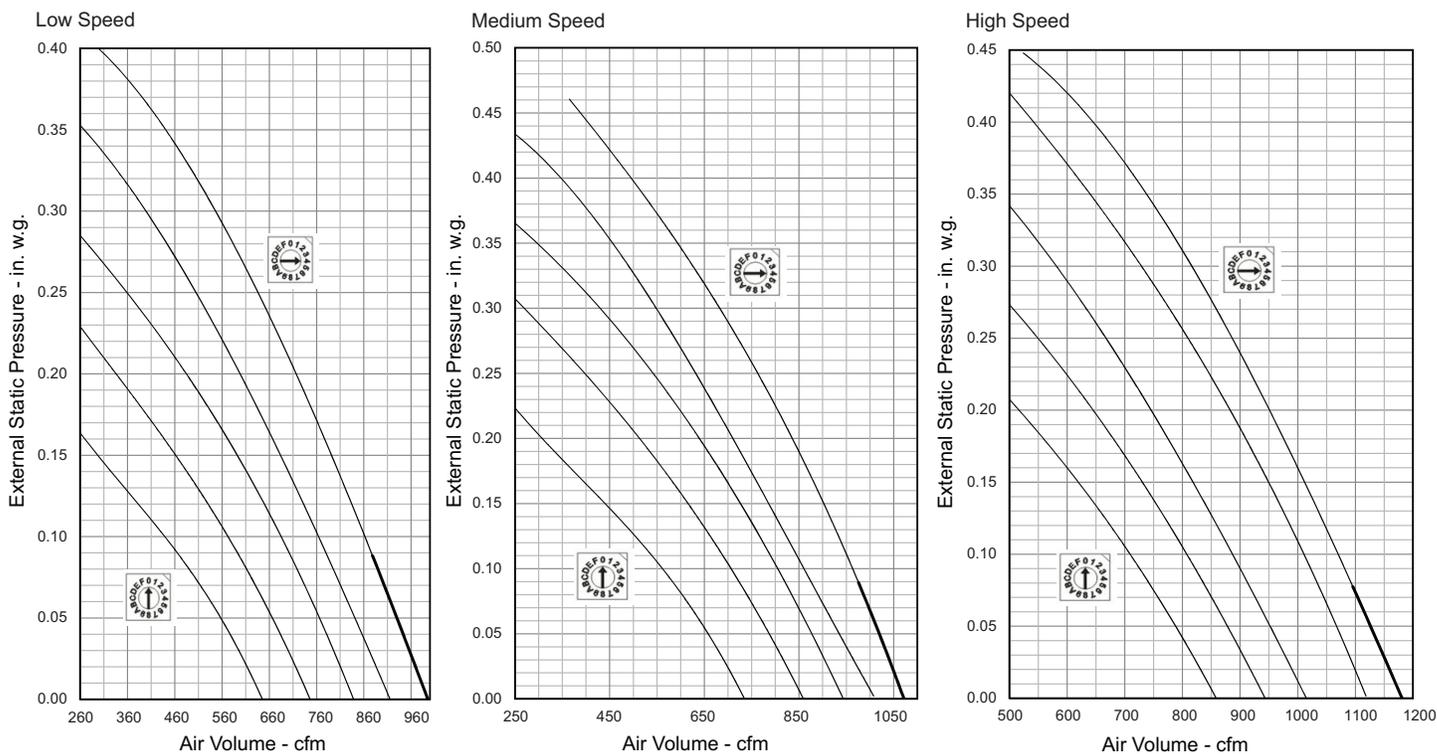


MMDA018S4

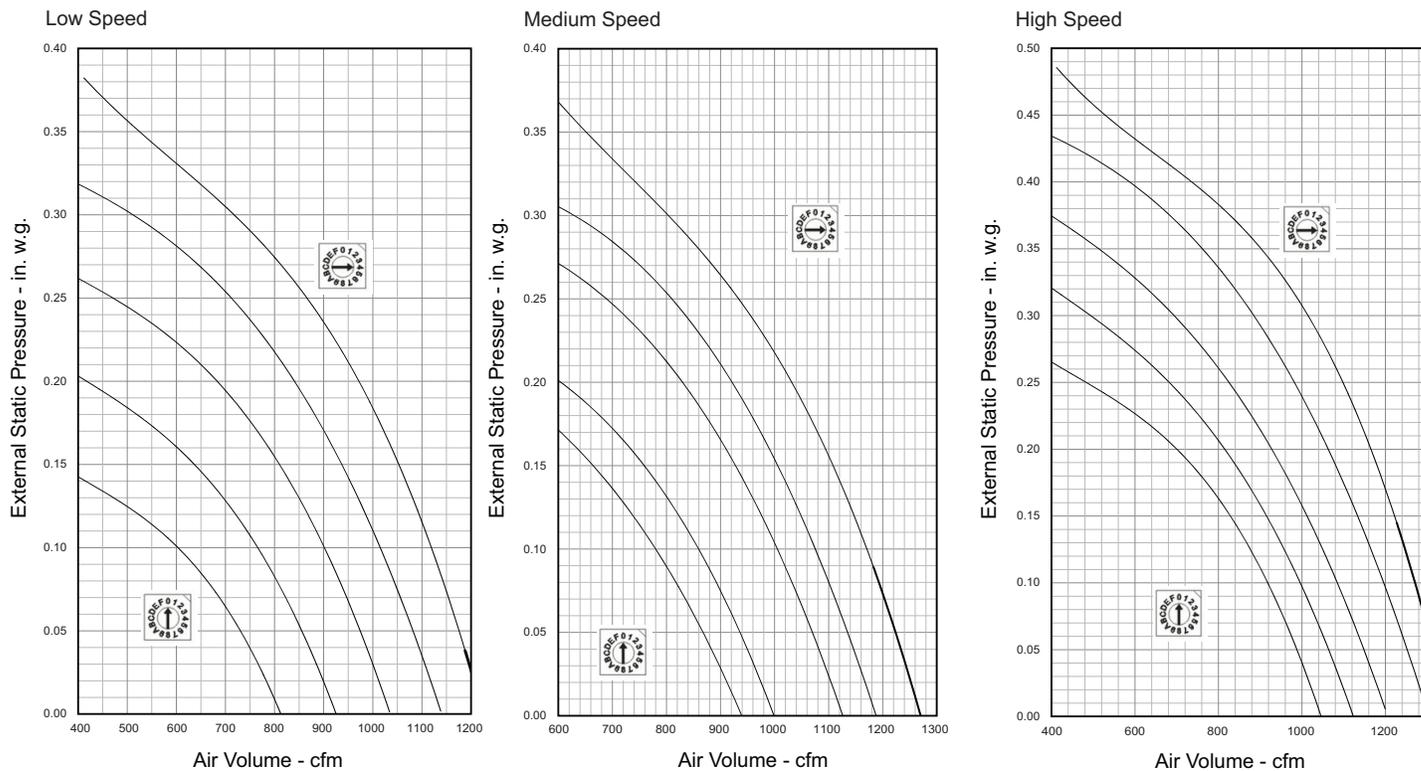


BLOWER DATA - MEDIUM STATIC DUCTED INDOOR UNITS

MMDA024S4

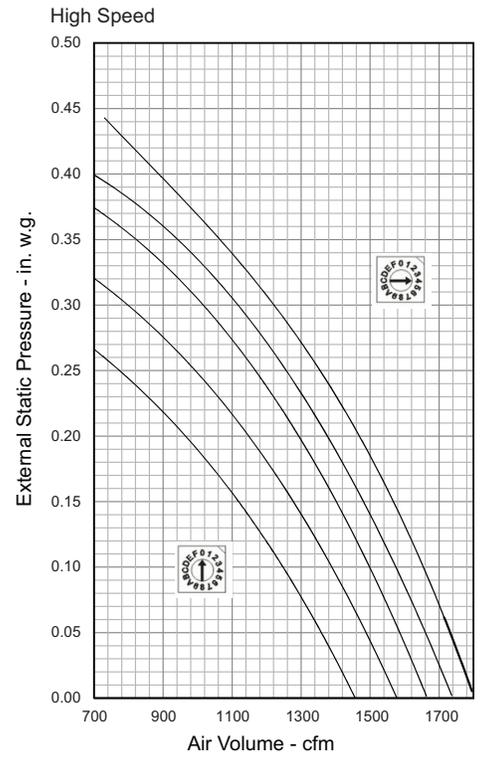
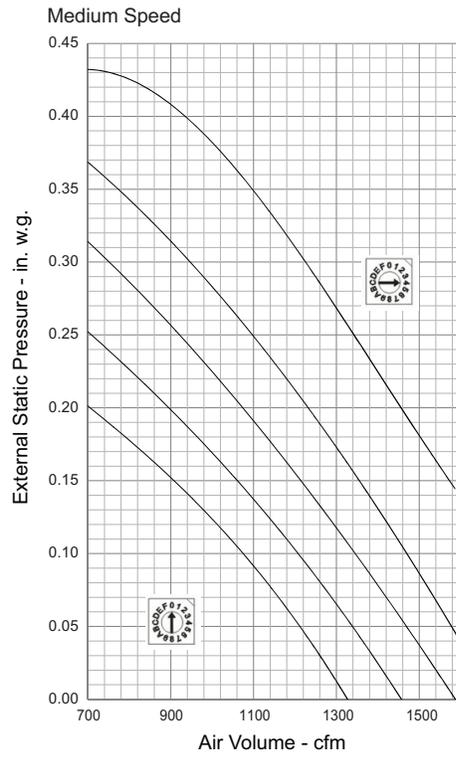
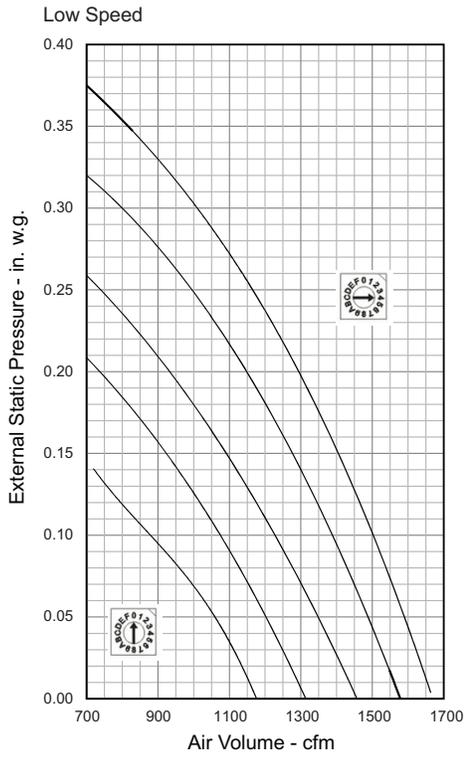


MMDA036S4-1P



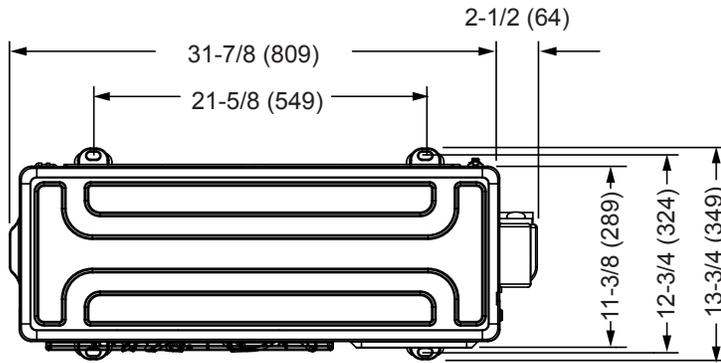
BLOWER DATA - MEDIUM STATIC DUCTED INDOOR UNITS

MMDA048S4

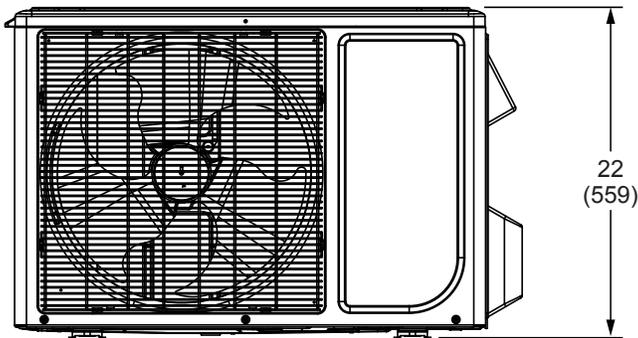


DIMENSIONS - OUTDOOR UNITS - INCHES (MM)

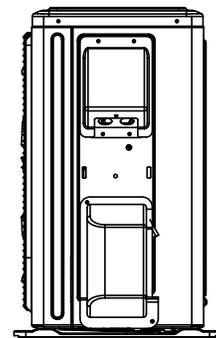
MPA009S4S, MPA012S4S



TOP VIEW

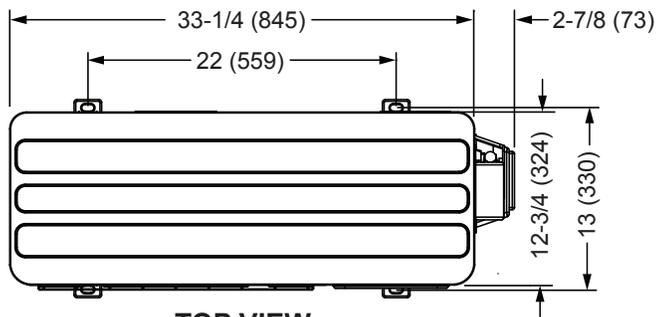


FRONT VIEW

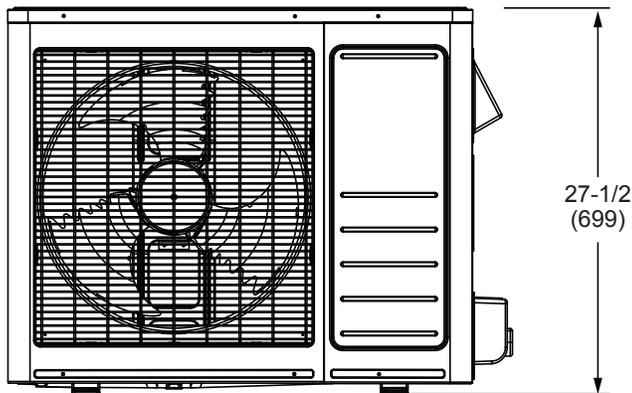


SIDE VIEW

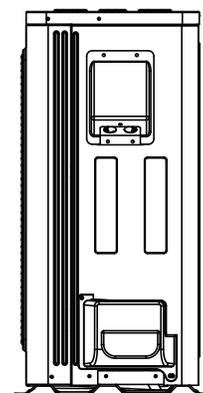
MPA018S4S



TOP VIEW



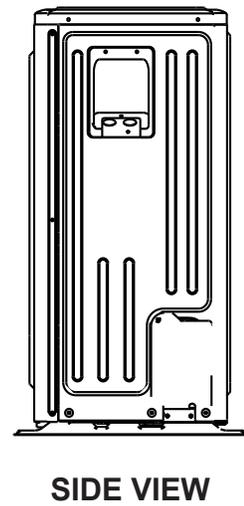
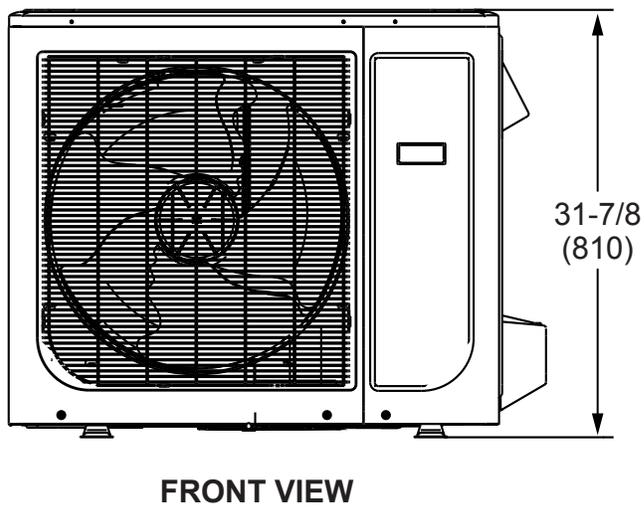
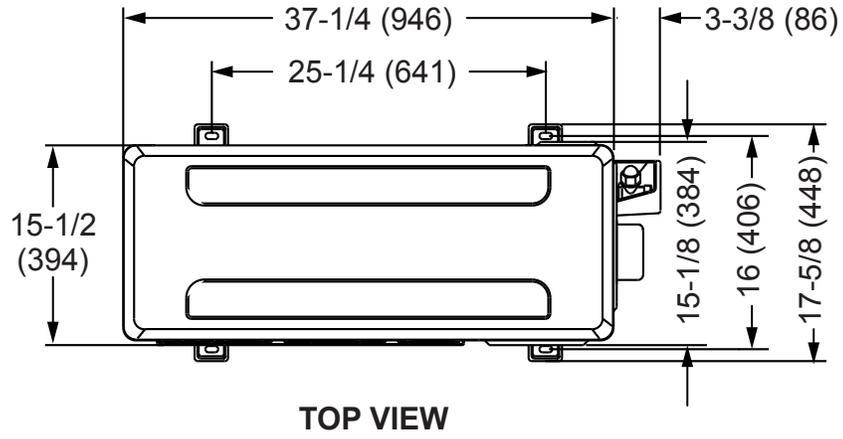
FRONT VIEW



SIDE VIEW

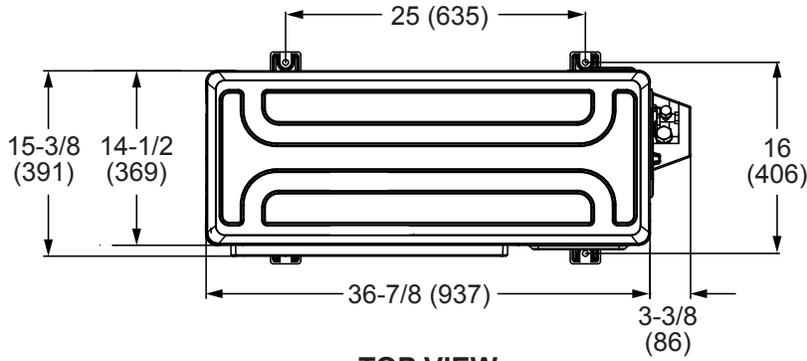
DIMENSIONS - OUTDOOR UNITS - INCHES (MM)

MPA024S4S, MPA030S4S, MPA036S4S

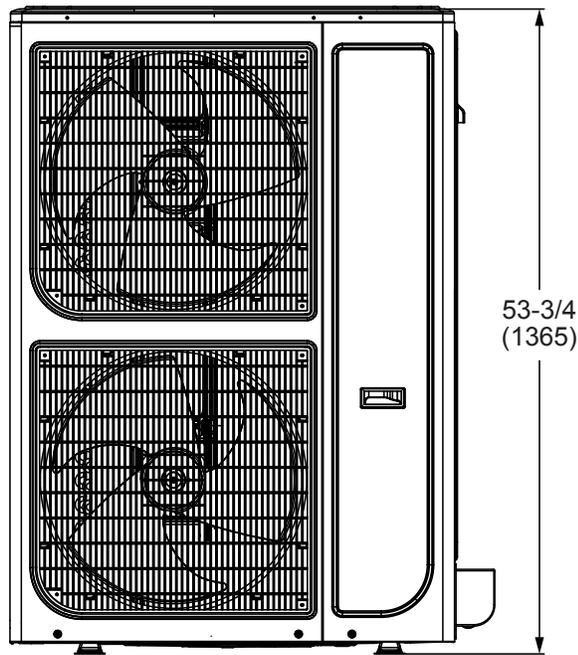


DIMENSIONS - OUTDOOR UNITS - INCHES (MM)

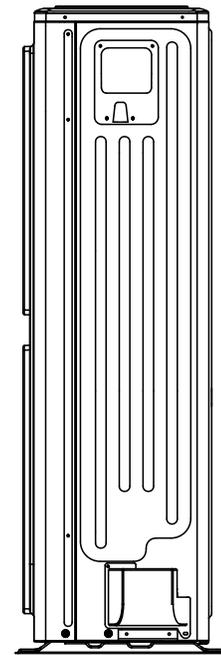
MPA048S4S



TOP VIEW



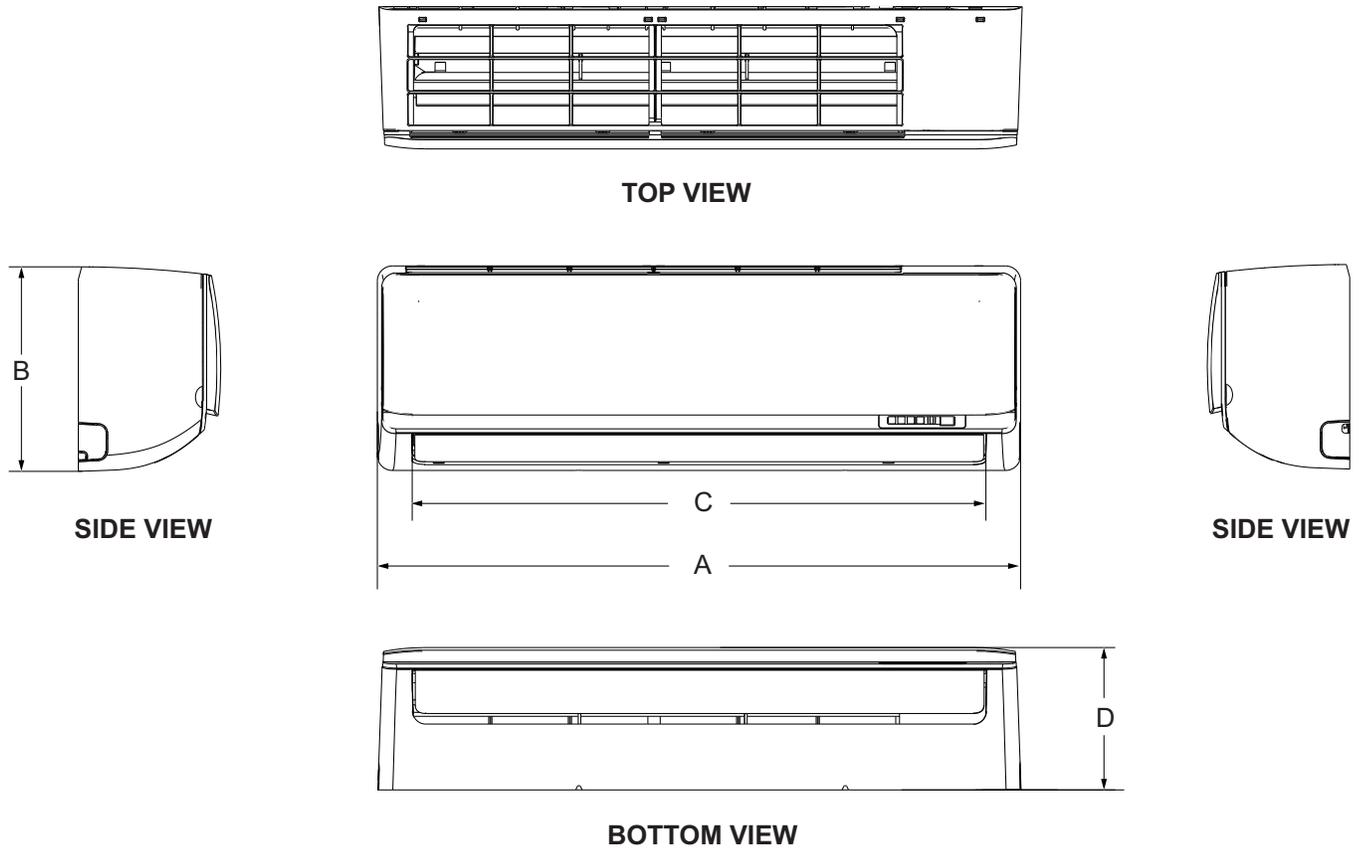
FRONT VIEW



SIDE VIEW

DIMENSIONS - WALL-MOUNTED INDOOR UNITS - INCHES (MM)

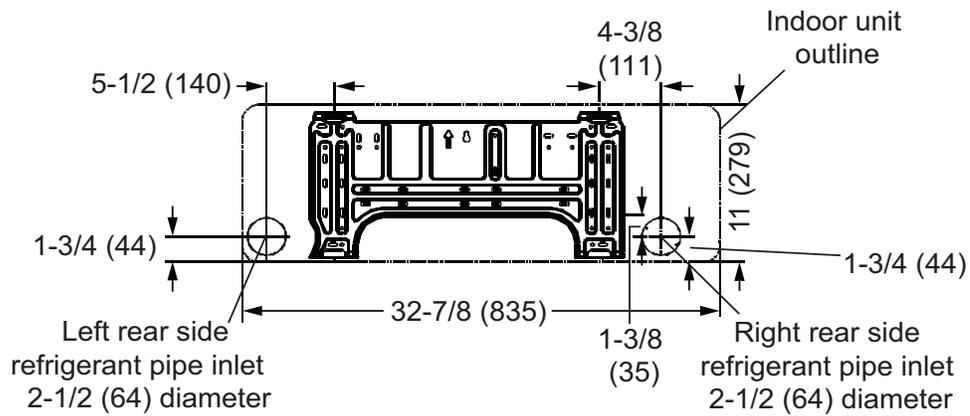
MWMA009S4, MWMA012S4, MWMA018S4, MWMA024S4, MWMA030S4



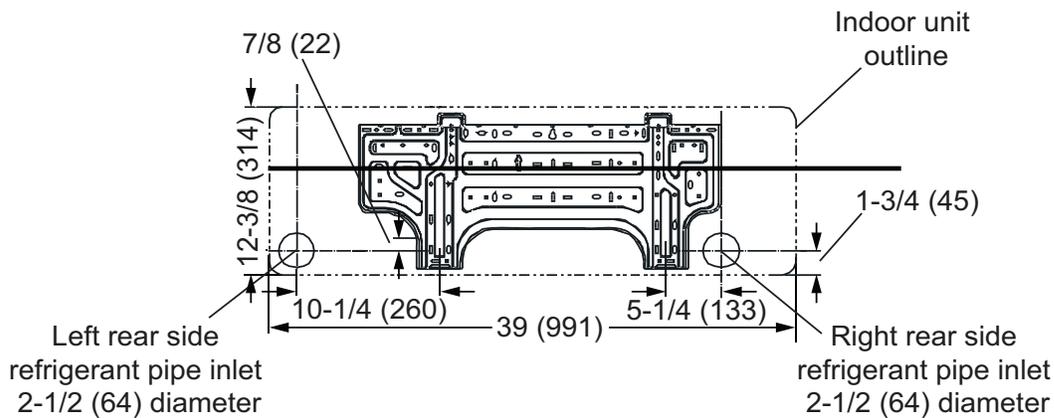
Size	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
009, 012	32-7/8	835	11	279	29-1/4	743	7-7/8	200
018	39	991	12-3/8	314	34-3/4	883	8-5/8	219
024, 030	46-3/4	1187	13-1/2	343	42-1/2	1080	10-1/4	260

DIMENSIONS - WALL-MOUNTED INDOOR UNITS - WALL PLATES - INCHES (MM)

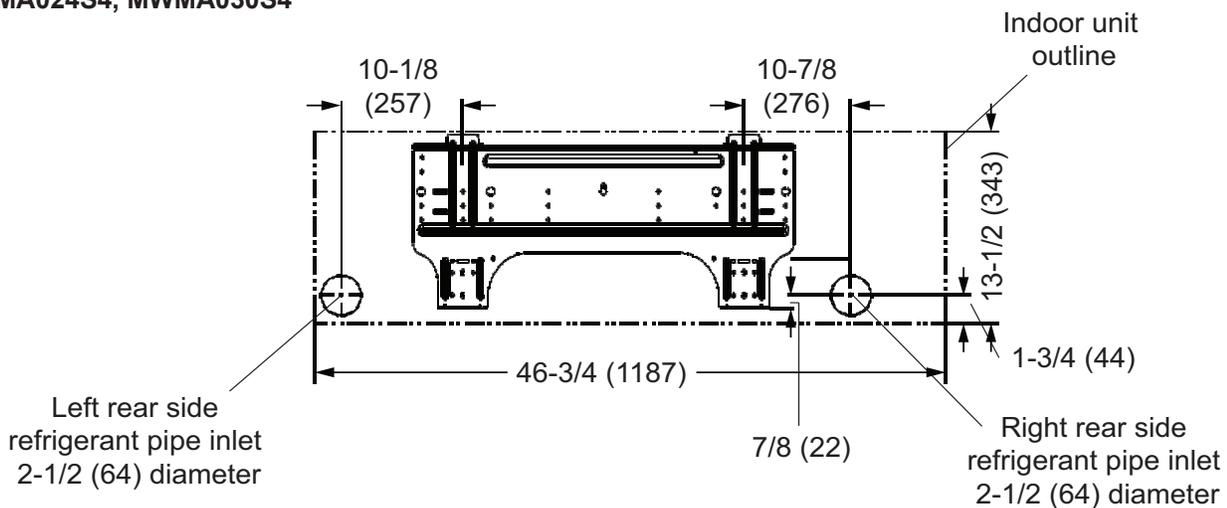
MWMA009S4 and MWMA012S4



MWMA018S4

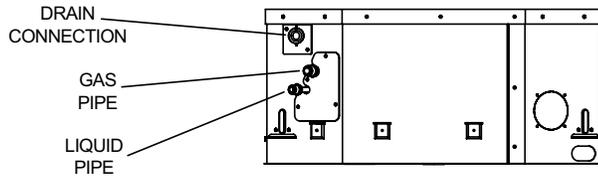


MWMA024S4, MWMA030S4

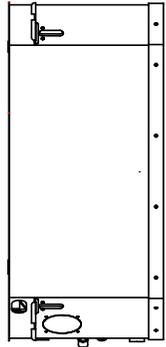


DIMENSIONS - CASSETTE INDOOR UNITS - INCHES (MM)

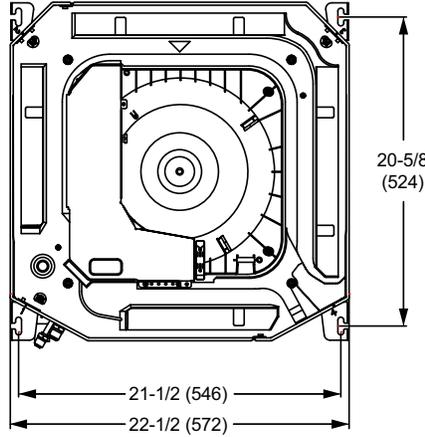
M22A009S4, M22A012S4, M22A018S4



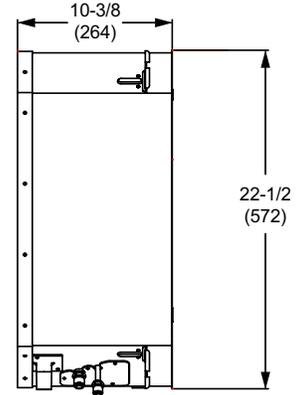
SIDE VIEW



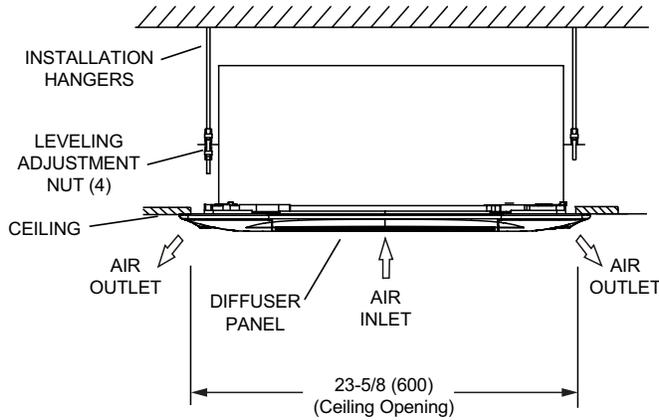
LEFT SIDE VIEW



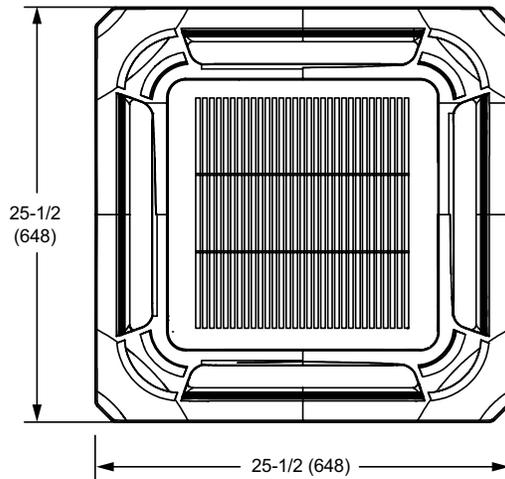
BOTTOM VIEW (Body)



RIGHT SIDE VIEW



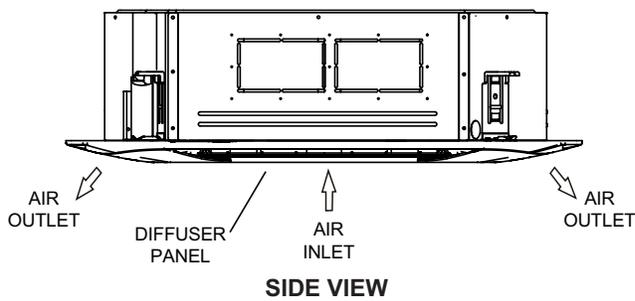
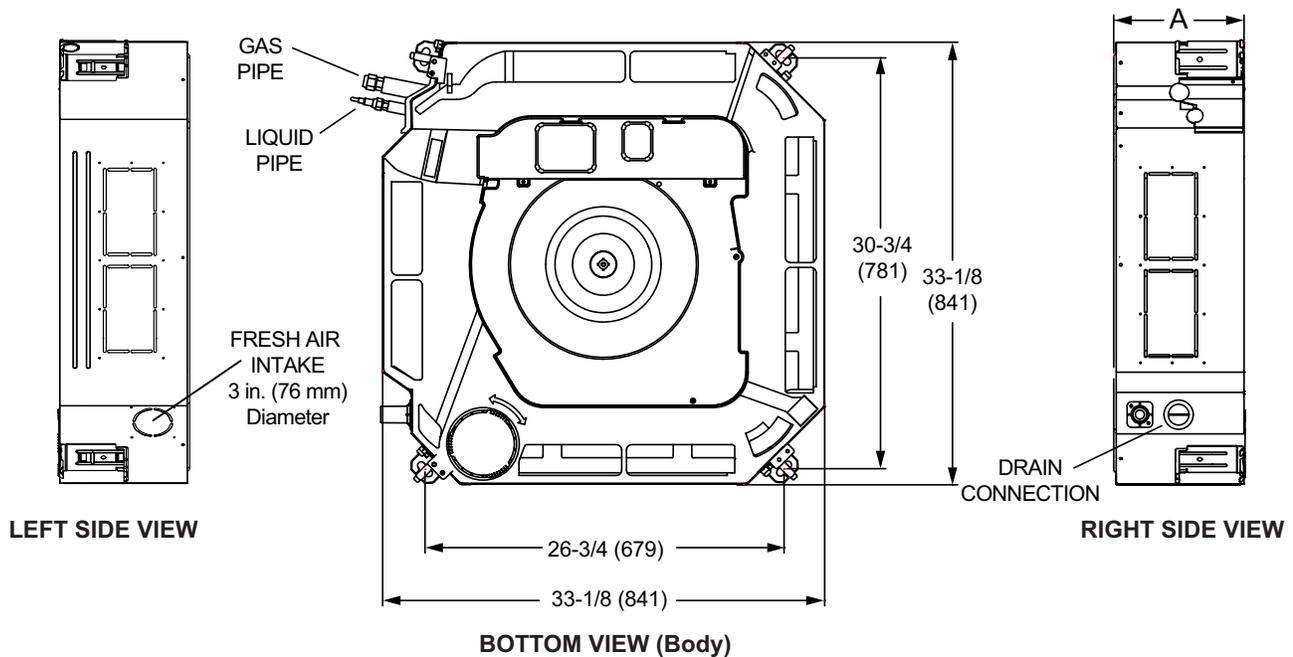
SIDE VIEW



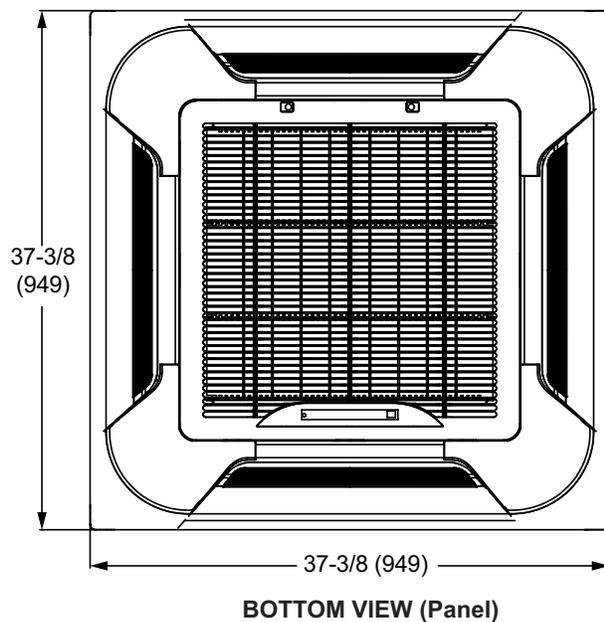
BOTTOM VIEW (Panel)

DIMENSIONS - CASSETTE INDOOR UNITS - INCHES (MM)

M33024S4, M33036S4, M33048S4

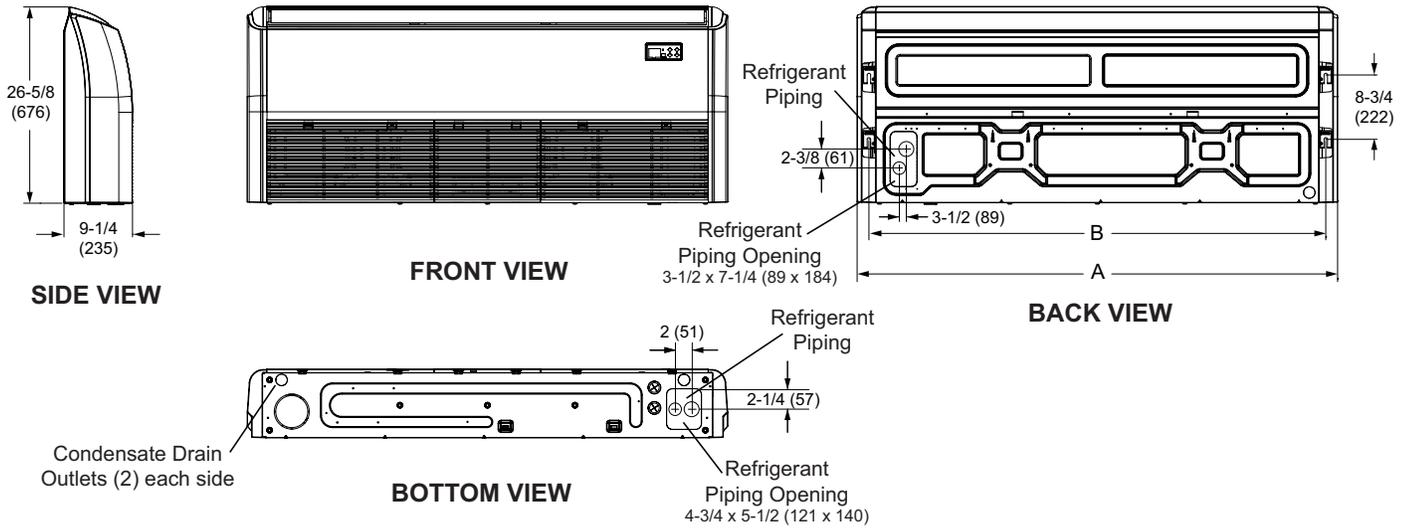


Size	A	
	in.	mm
024	8-1/8	206
036	9-5/8	244
048	11-1/4	286



DIMENSIONS - CEILING/FLOOR MOUNT INDOOR UNITS - INCHES (MM)

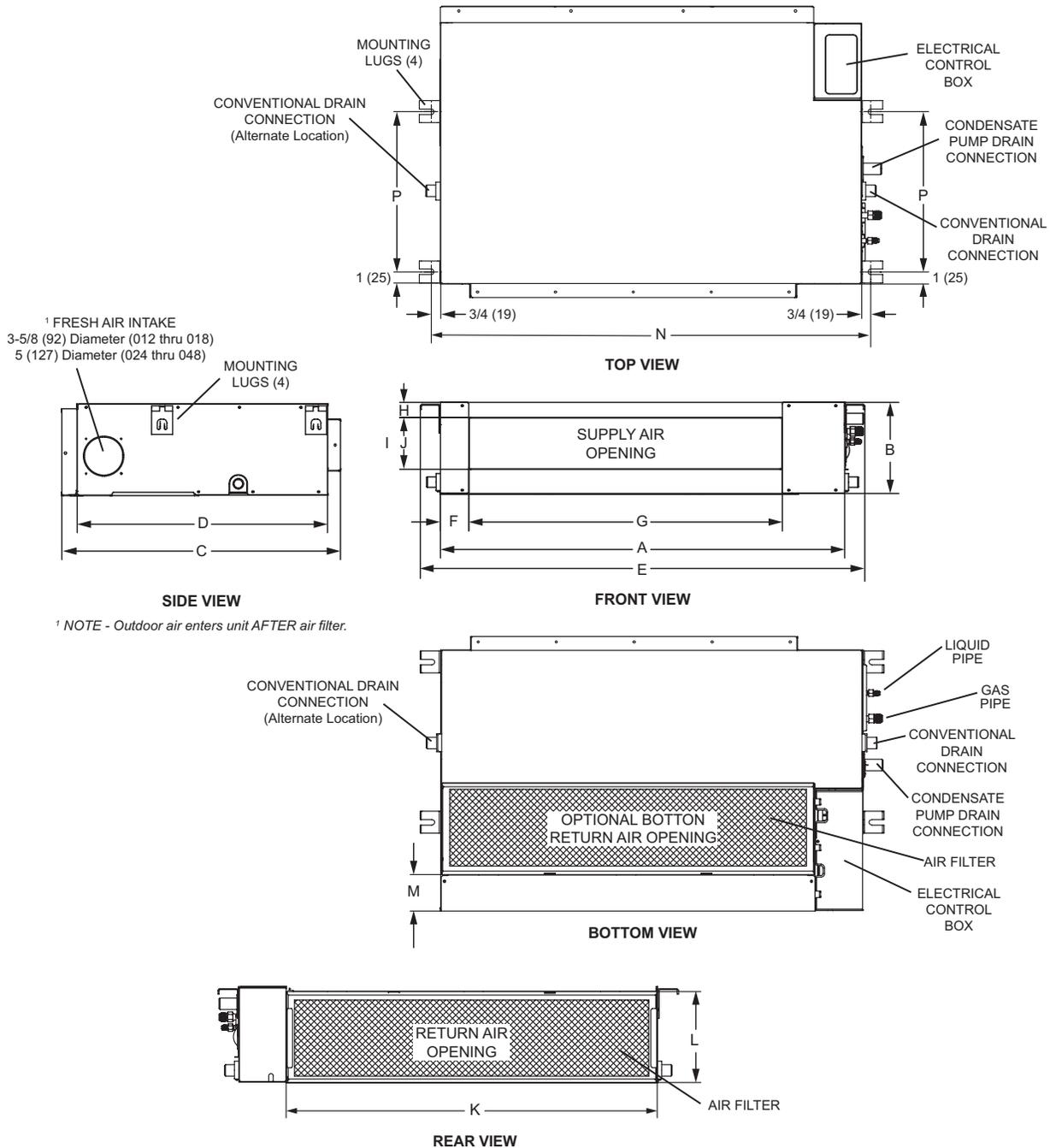
MCFA024S4, MCFA036S4, MCFA048S4



Model No.	A		B	
	in.	mm	in.	mm
024	42-1/8	1070	39	991
036	50-5/8	1286	47-3/8	1203
048	65	1651	61-3/4	1568

DIMENSIONS - MEDIUM STATIC DUCTED INDOOR UNITS - INCHES (MM)

MMDA009S4, MMDA012S4, MMDA018S4, MMDA024S4, MMDA036S4, MMDA048S4

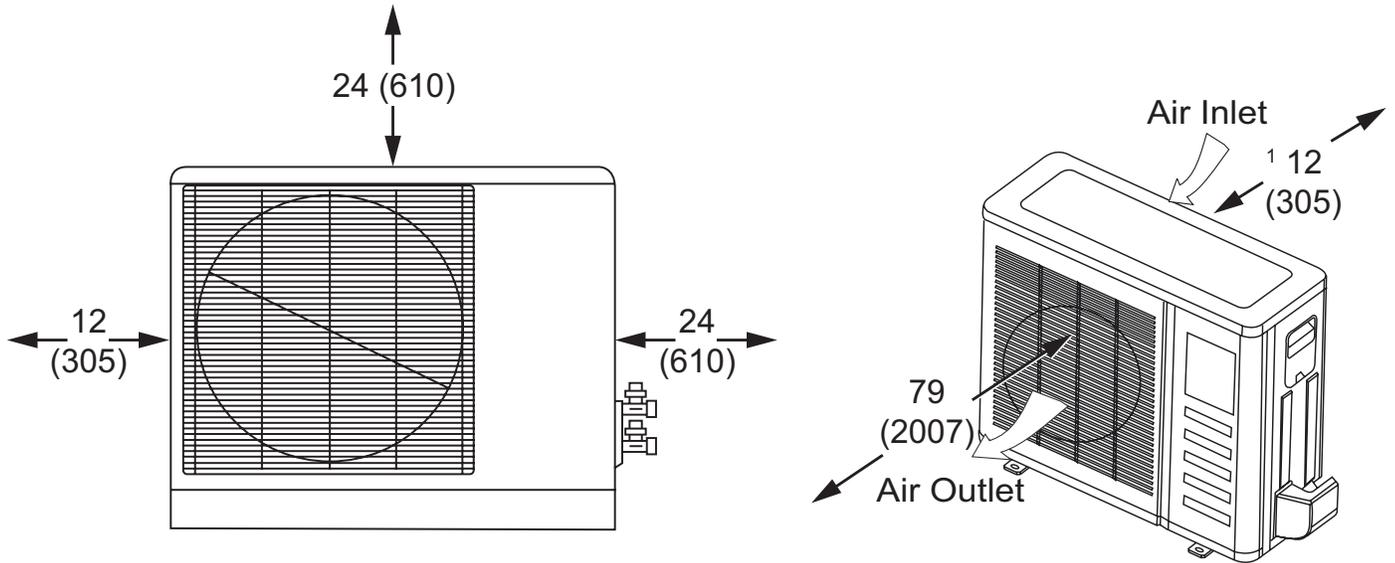


¹ NOTE - Outdoor air enters unit AFTER air filter.

Size	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
009 thru 012	27-5/8	702	8-1/4	210	25	635	22-1/2	572	31-1/8	791	2-5/8	67	19-1/2	495	1-3/8	35
018	36-1/4	921	8-1/4	210	25	635	22-1/2	572	39-3/4	1010	2-5/8	67	28	711	1-3/8	35
024	36-1/4	921	10-5/8	270	25	635	22-1/2	572	39-3/4	1010	2-5/8	67	28	711	1-3/8	35
036	44-7/8	1140	10-5/8	270	30-1/2	775	28	711	48-1/2	1232	2-5/8	67	36-3/4	933	1-3/8	35
048	47-1/4	1200	11-7/8	302	34-1/8	867	31-1/2	800	50-3/4	1289	3-1/8	79	38-1/8	968	1-1/2	38

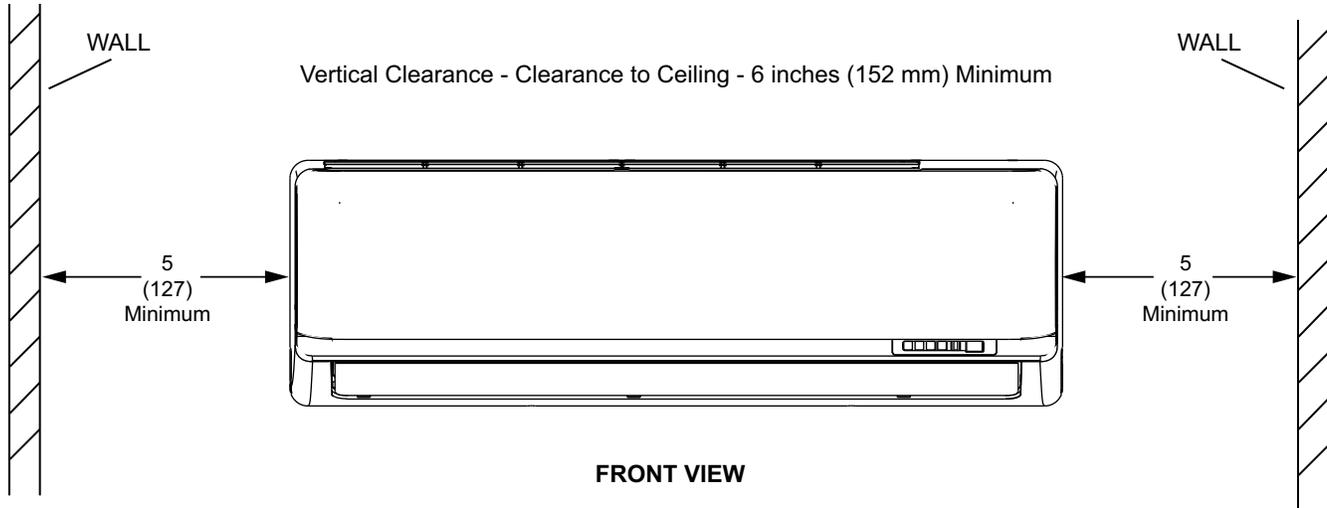
Size	J		K		L		M		N		P	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
009 thru 012	4-5/8	117	23-1/2	597	7-7/8	200	3-1/8	79	29-1/8	740	13-3/4	349
018	4-5/8	117	32	813	7-7/8	200	3-1/8	79	37-3/4	959	13-3/4	349
024	7	178	32	813	10-1/4	260	3/4	19	37-3/4	959	13-3/4	349
036	7	178	40-3/4	1035	10-1/4	260	3/4	19	46-1/2	1181	19-1/4	489
048	8	203	43	1092	11-3/8	289	1-3/4	44	48-7/8	1241	19-5/8	498

INSTALLATION CLEARANCES - OUTDOOR UNITS - INCHES (MM)



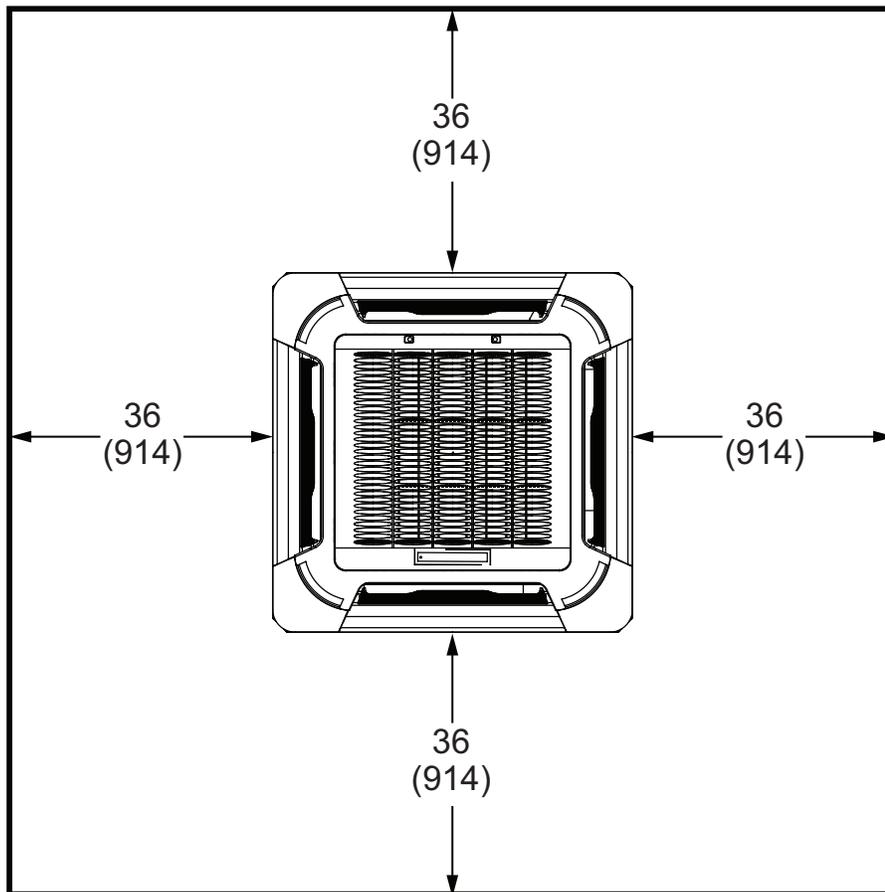
¹ Minimum rear clearance can be 6 inches (152 mm) when mounted on brackets and with no obstructions on the other three sides.

INSTALLATION CLEARANCES - WALL-MOUNTED INDOOR UNITS - INCHES (MM)



Vertical Clearance - Clearance to Floor - 72 inches (1829 mm) Minimum
 NOTE - Provide 96 inches (2438) clearance to floor for best performance

INSTALLATION CLEARANCES - CASSETTE INDOOR UNITS - INCHES (MM)



Minimum Vertical Clearances:

Minimum Clearance from Structural Ceiling to Drop Ceiling:

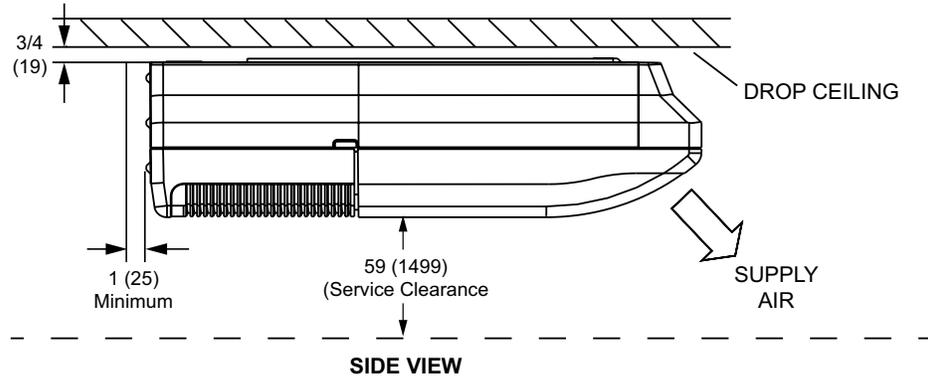
10-1/4 inches (260 mm) - 009, 012, 018, 024 models

13 inches (330 mm) - 036, 048 models

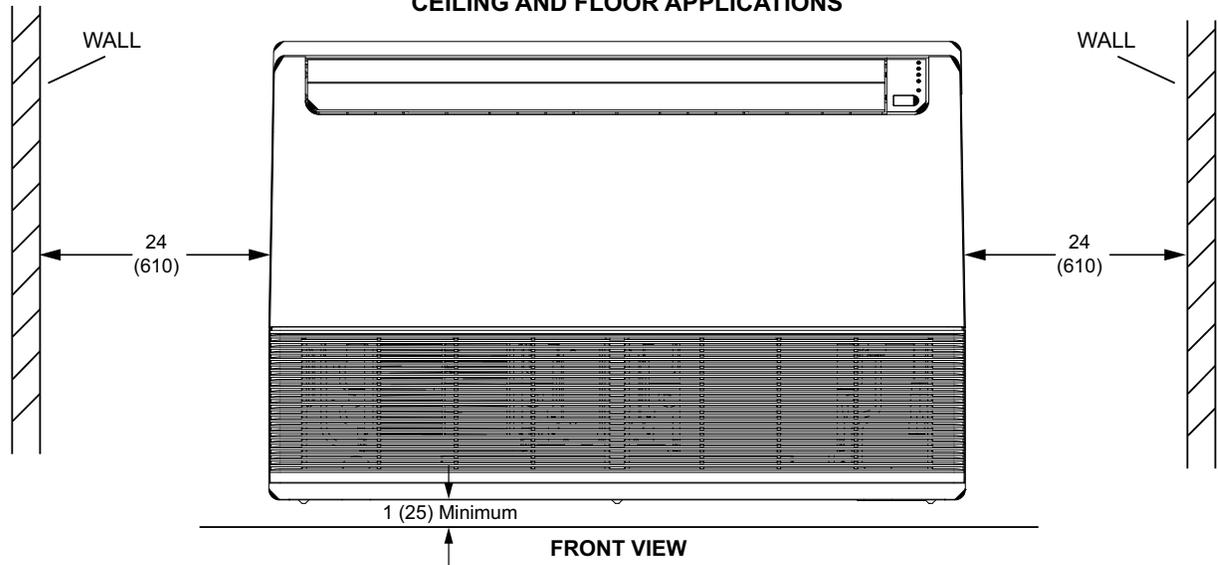
Minimum Clearance to Floor - 98-1/2 inches (2500 mm)

INSTALLATION CLEARANCES - CEILING/FLOOR MOUNT INDOOR UNITS - INCHES (MM)

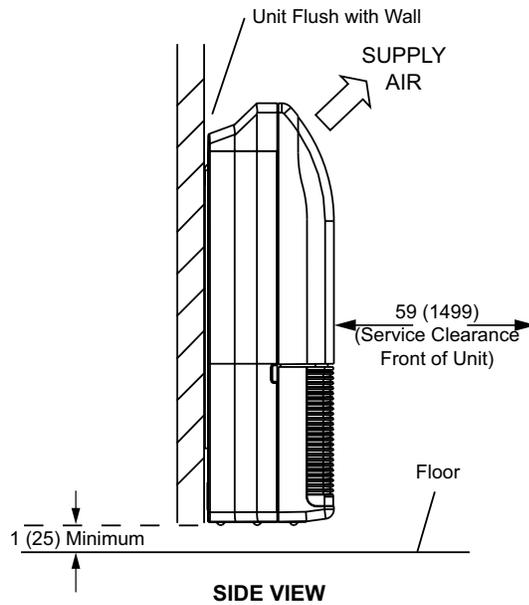
CEILING APPLICATIONS



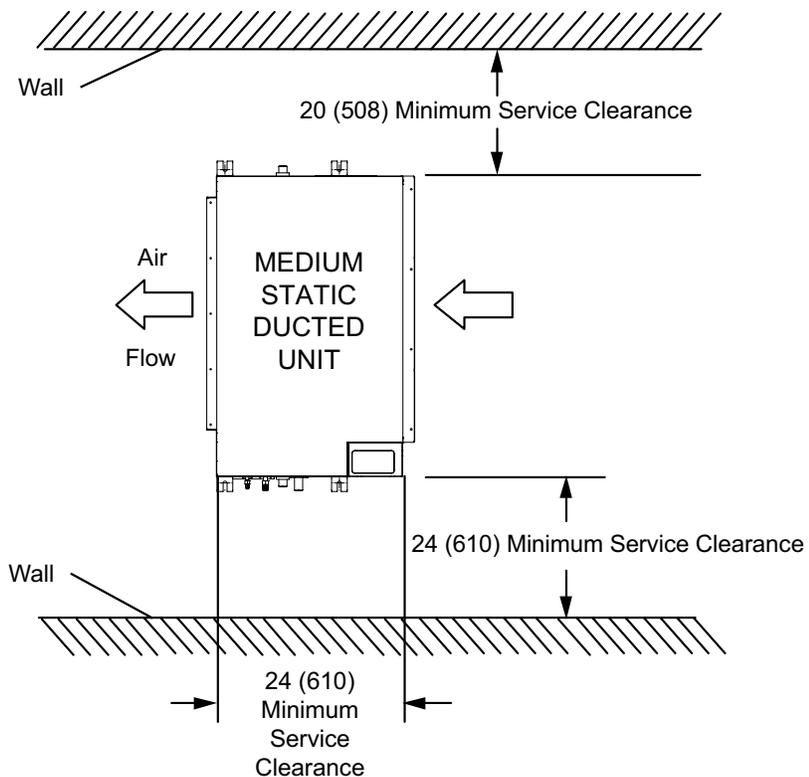
CEILING AND FLOOR APPLICATIONS



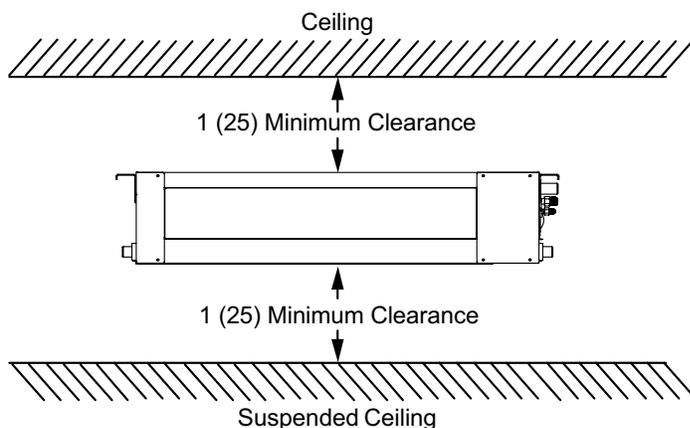
FLOOR APPLICATIONS



INSTALLATION CLEARANCES - MEDIUM STATIC DUCTED INDOOR UNITS - INCHES (MM)



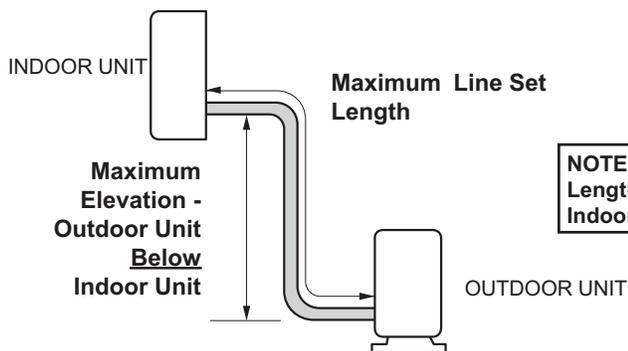
TOP VIEW



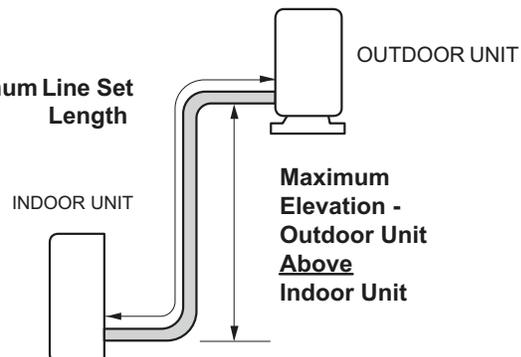
FRONT VIEW

LINE SET AND ELEVATION GUIDELINES

Outdoor Unit BELOW Indoor Unit



Outdoor Unit ABOVE Indoor Unit



NOTE - Minimum Line Set Length - 10 ft. (3 m) per Indoor Unit

Size	Line Set Diameters (in.)		Maximum Elevation - Outdoor Unit <u>Below</u> Indoor Unit ft. (m)	Maximum Elevation - Outdoor Unit <u>Above</u> Indoor Unit ft. (m)	Maximum Line Set Length ft. (m)
	Liquid	Gas			
009	1/4	3/8	40 ft. (12 m)	40 ft. (12 m)	82 ft. (25 m)
012	1/4	1/2	40 ft. (12 m)	40 ft. (12 m)	82 ft. (25 m)
018	1/4	1/2	66 ft. (20 m)	66 ft. (20 m)	98 ft. (30 m)
024, 030	3/8	5/8	82 ft. (25 m)	82 ft. (25 m)	164 ft. (50 m)
036, 048	3/8	5/8	98 ft. (30 m)	98 ft. (30 m)	213 ft. (65 m)

REVISIONS

Sections	Description of Change
New Section	Added Air Throw Curves for indoor non-ducted units.
Optional Accessories	Removed Universal Mini-Split Installation Kit (discontinued).



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