

MINI-SPLIT SYSTEMS



MPA

Mini-Split

Multi-Zone Heat Pump Systems - R-410A

Bulletin No. 210757
August 2017
Supersedes April 2017

PRODUCT SPECIFICATIONS



MPA018 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)**



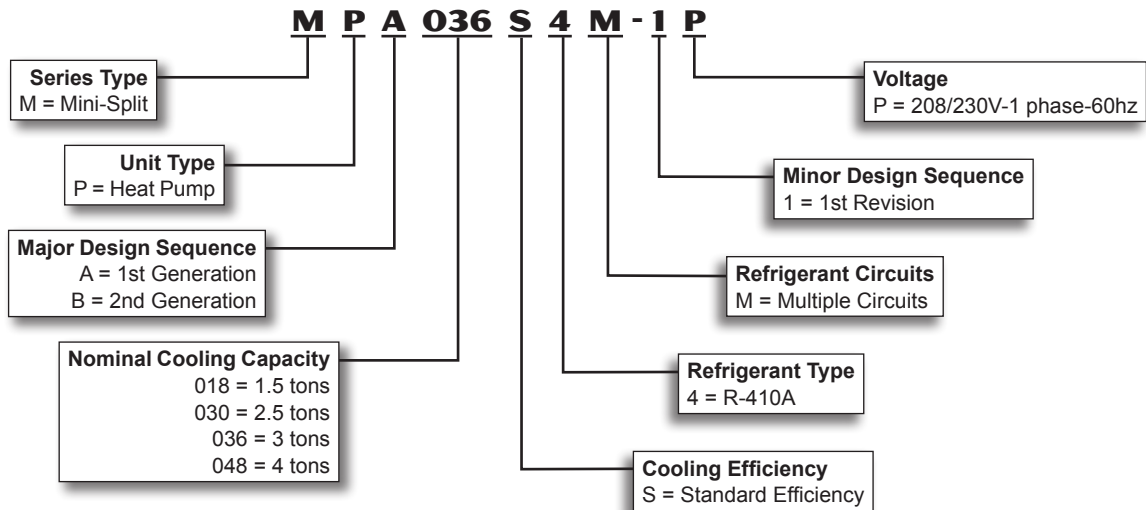
Certain models have earned the Energy Star® mark by meeting strict energy efficiency guidelines set by the US EPA.

**Up to 5 Zones
SEER up to 22.00
1.5 to 4 Tons**

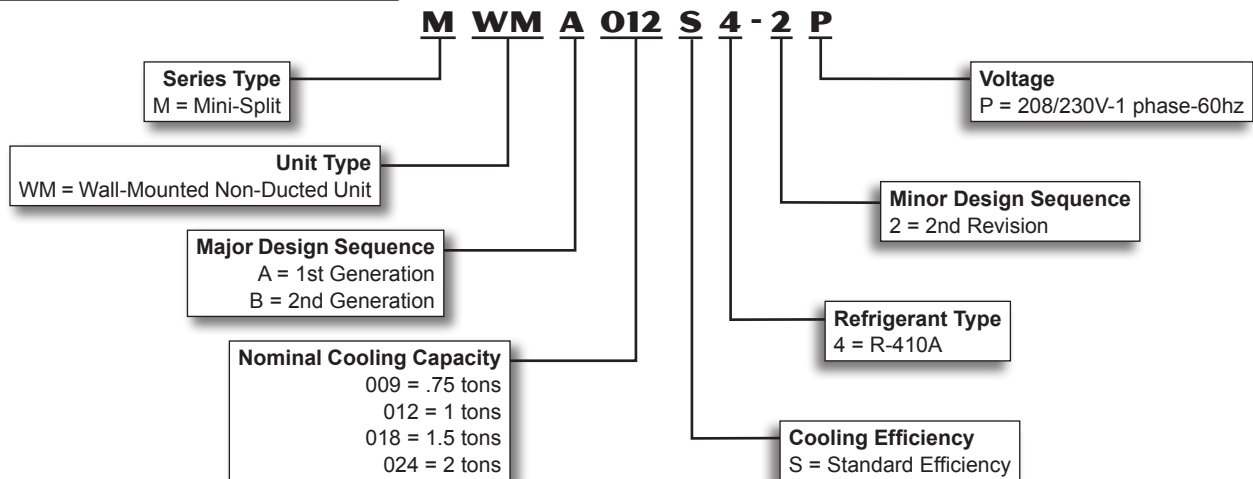
**Cooling Capacity - 17,000 to 42,000 Btuh
Heating Capacity - 18,000 to 51,000 Btuh**

MODEL NUMBER IDENTIFICATION

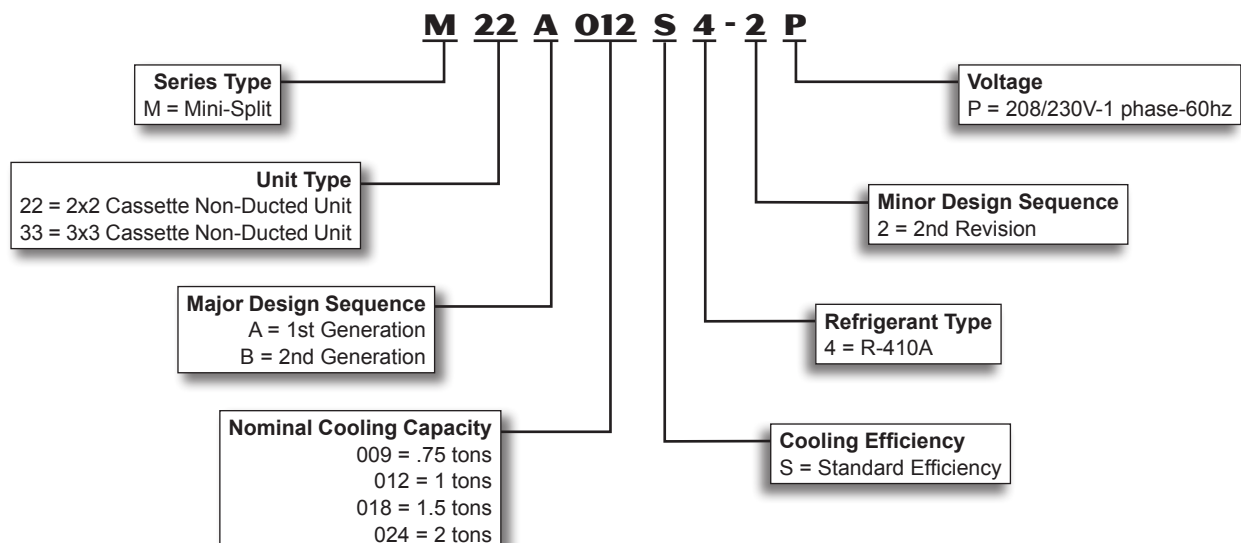
OUTDOOR MULTI-ZONE HEAT PUMP UNITS



WALL-MOUNTED INDOOR UNITS

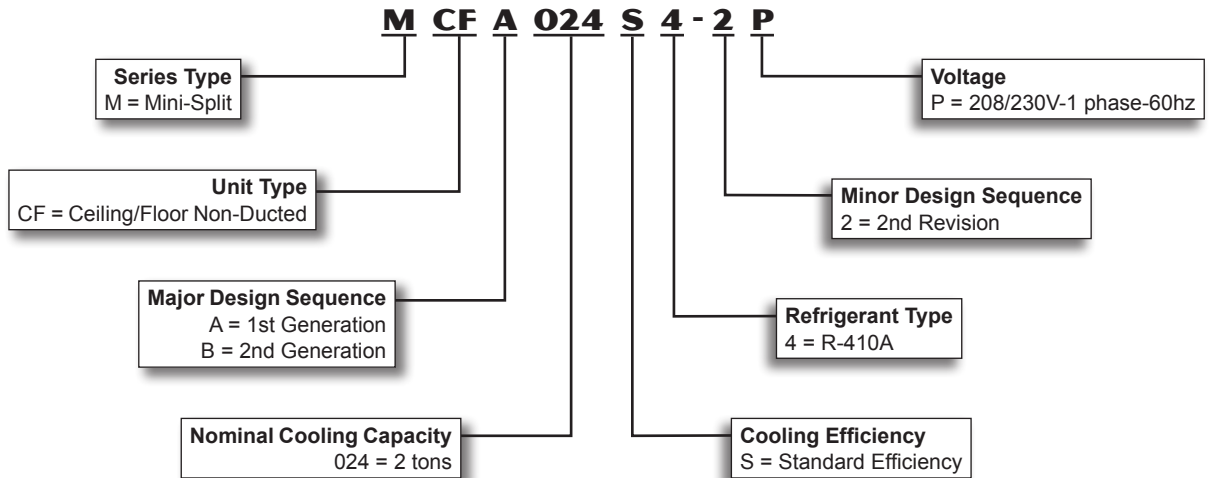


CASSETTE NON-DUCTED INDOOR UNITS

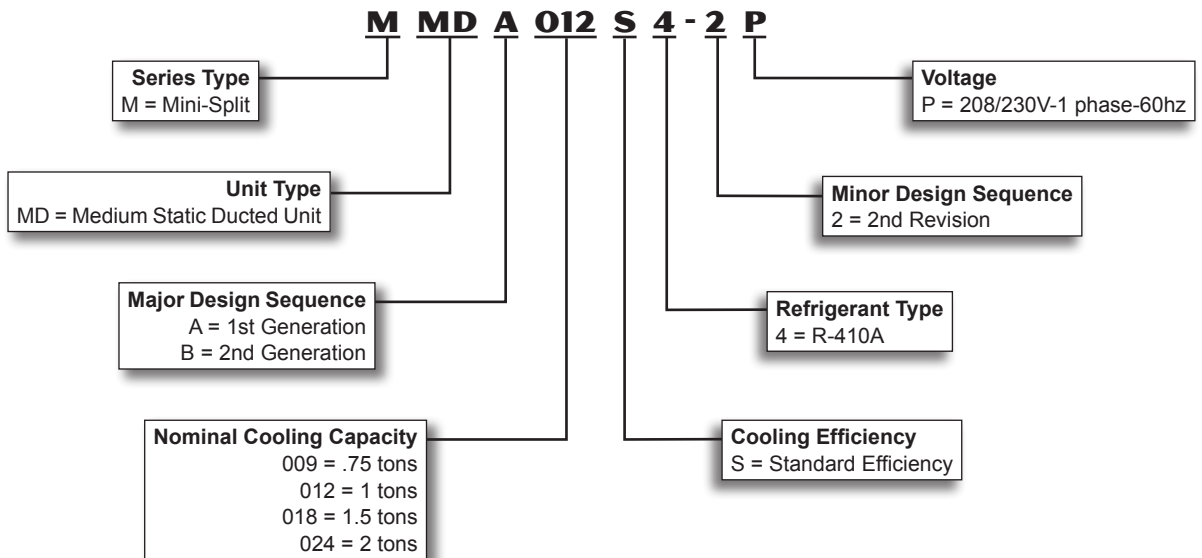


MODEL NUMBER IDENTIFICATION

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 22.00.

HSPF up to 10.

1.5 through 4 ton.

Single phase power supply (208/230V).

Outdoor unit sound levels as low as 57 dB.

Indoor unit sound levels as low as 26.5 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.

Depending on capacity, multi-zone heat pumps allow up to five indoor units (5 zones) to be connected to one outdoor unit.

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

Installer must set outdoor unit, hang indoor units, 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.

Certain models are ENERGY STAR® certified and 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.

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

FEATURES - OUTDOOR UNITS

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 operation is terminated during the defrost cycle. Indoor fan changes to ultra low speed during the defrost cycle to help bring warm refrigerant back to the outdoor coil to assist during defrost operation.

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 an indoor unit in the system is set to “AUTO” mode the unit will operate in cooling, heating or fan mode based on temperature setting. Fan runs in auto mode. Each indoor unit has a “mode conflict priority” setting set by a DIP switch or from the remote control (default setting is heating mode).

The system “mode conflict priority” is set by the indoor unit connected through the “A” terminal strip. If the “A” terminal strip is not used, the unit at the “B” terminal strip and any subsequent terminal strips is utilized (depending on number of zones/indoor units).

When a mode conflict happens (all units are not set to the same mode), the indoor units with the mode equal to the system “mode conflict priority” will continue to operate, the indoor unit with the different mode will be turned off and the display will show “--” indicating a mode conflict for that particular indoor unit.

Mode conflict will auto-reset once all units return to the same operating mode.

ACCESSORIES (FURNISHED)

WIRELESS REMOTE CONTROL

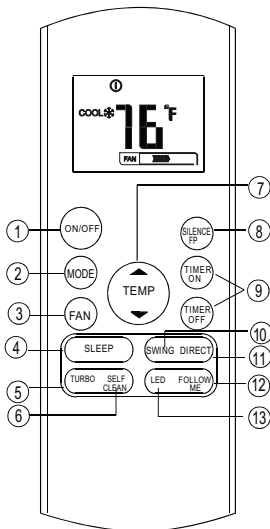
Furnished with Wall-Mounted Indoor Units, Cassette Indoor Units and Ceiling/Floor Indoor Units.

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.

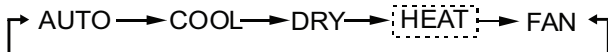


1 ON/OFF Button

- Turns system on and off.

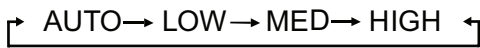
2 MODE Button

- 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

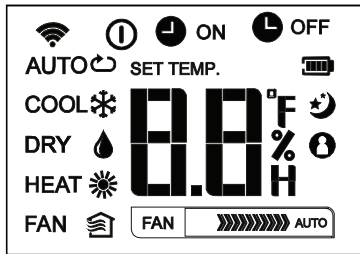
- Allows remote temperature sensing of the room at the remote control location.

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 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

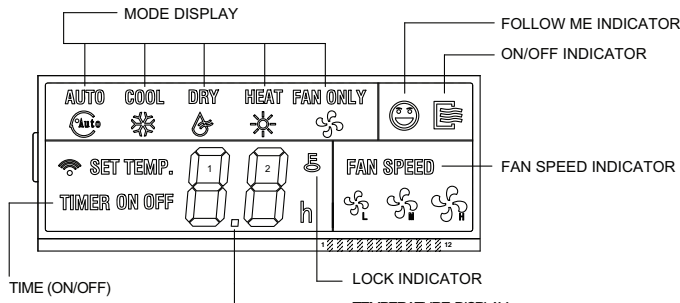
Furnished with Ducted Indoor Units.

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

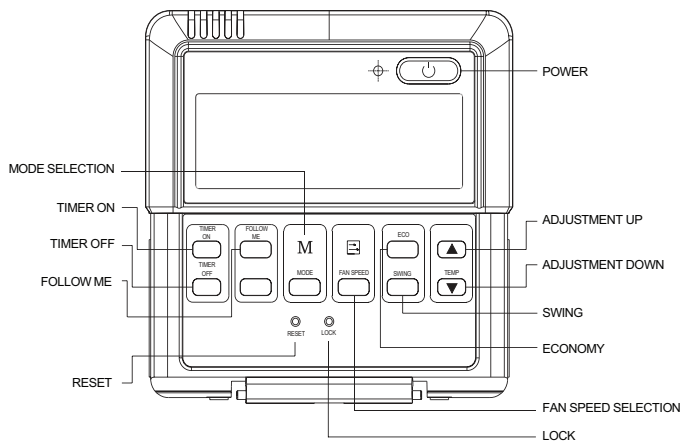
FEATURES

- 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

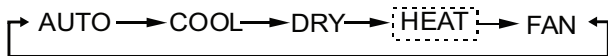


BUTTONS AND FUNCTIONS



MODE Button

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

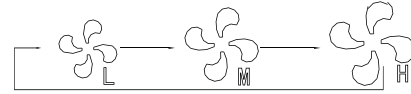


POWER Button

- 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

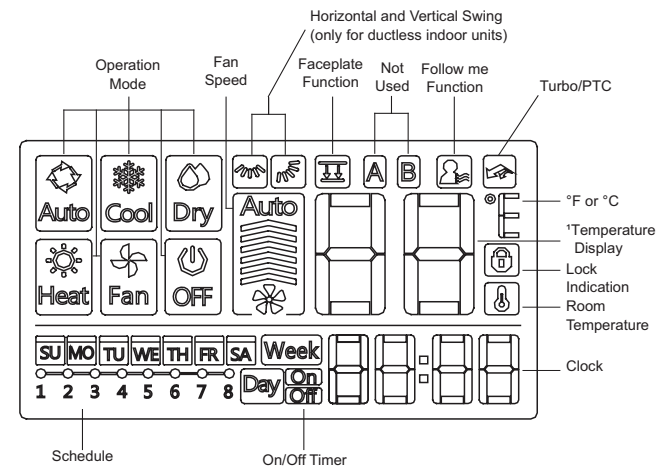
Back/Turbo Button

- 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.

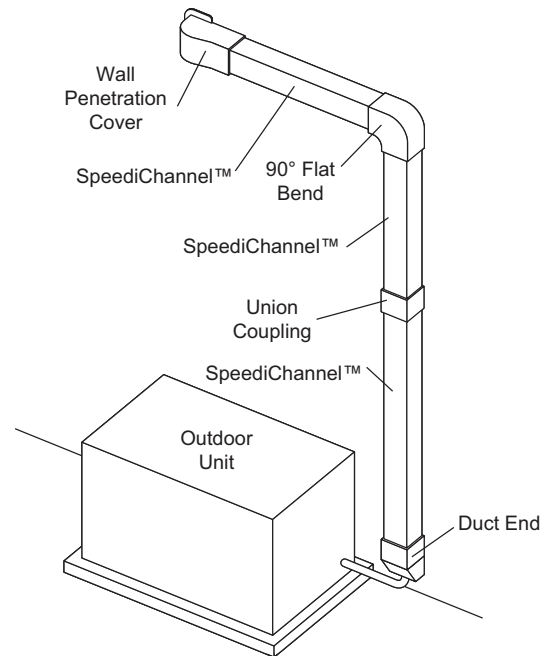
Screw cap on top allows easy access to condensate drain line.

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.

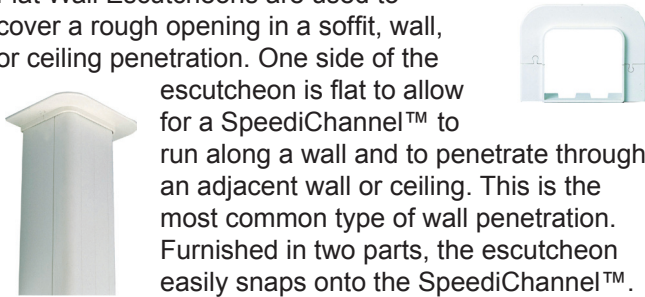
Duct End

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.



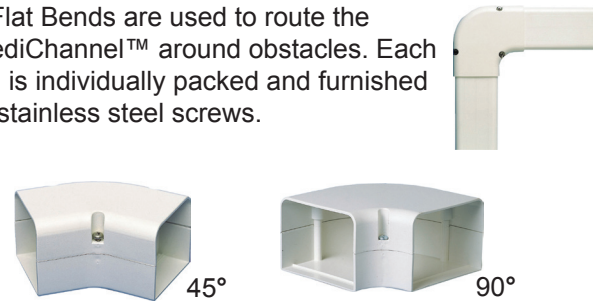
Wall Penetration Cover

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.



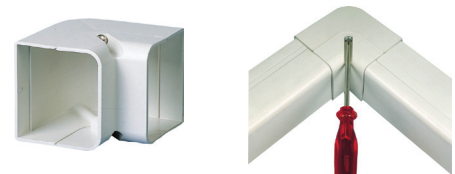
45° and 90° Flat Bend Elbows

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
1.5 - 2.5 TON

Nominal Size - Tons		1.5		2.5	
		MPA018S4M		MPA030S4M	
Outdoor Unit Model No.		2		Up to 3	
Number of Zones		2		Up to 3	
¹ AHRI Ratings	System Type	Ducted	Non-Ducted	Ducted	Non-Ducted
	Cooling - Btuh	17,000	18,000	27,000	25,000
	High Temperature Heating - Btuh	18,000	18,500	32,000	32,000
	Low Temperature Heating - Btuh	10,900	11,000	20,000	20,000
	SEER	18.00	21.00	16.50	22.00
	EER	12.50	12.50	9.50	12.50
	HSPF (Region IV)	8.5	9.6	8.8	9.6
AHRI Reference Number		8129621	8129607	8129624	8129613
Energy Star		Yes	Yes	No	Yes
Ambient Temperature Range - °F	Cooling	5 - 122		5 - 122	
	Heating	-13 - 76		-13 - 76	
Sound Data (dBA)	Cooling	57		59	
	Heating	62		62	
Refrigerant	Charge furnished (R-410A)	4 lbs. 4 oz.		6 lbs. 3 oz.	
Maximum line length with furnished charge (per zone) - ft.		25		25	
Additional charge required per ft. - oz.		0.161		0.161	
Compressor	No. and Type	Twin-Rotary		Twin-Rotary	
	Refrigerant oil type	ESTER OIL VG74		ESTER OIL VG74	
	Refrigerant oil charge - oz.	16.9		27.7	
Connections - in.	Liquid+Gas pipe (flare)	(2) 1/4 liq. + (2) 3/8 gas		(3) 1/4 liq. + (3) 3/8 gas	
	Maximum pipe length for all rooms - ft.	98		148	
	Maximum pipe length for one indoor unit - ft.	66		82	
Maximum height difference between indoor unit and outdoor unit	Outdoor unit <u>ABOVE</u> indoor unit - ft.	33		33	
	Outdoor unit <u>BELOW</u> indoor unit - ft.	49		49	
Maximum difference in level between indoor units - ft.		33		33	
Outdoor Fan	(No.) Diameter - in.	(1) - 18		(1) - 22	
	Total air volume - cfm	1470		2060	
	rpm	750		850	
Outdoor Coil	Number of rows	2		1.6	
	Fins per inch	14		15	
	Fin type	Hydrophilic aluminium			
	Tube outside diameter - in.	3/8		3/8	
	Tube type	Rifled copper tubing			
Net face area - ft. ²		4.9		6.42	
Design Pressure	PSIG	550/340		550/340	
Shipping Data	Net/Shipping weight (lbs.)	106 / 115		144 / 155	
ELECTRICAL DATA					
Electrical Characteristics - 60 Hz - 1 Phase		208/230V		208/230V	
² Maximum Overcurrent Protection (amps)		20		25	
³ Minimum circuit ampacity		18		20	
Compressor Rated load amps		10		12	
Outdoor Fan Motor	Rated load amps	0.74		0.90	
	Output - W	50		120	

NOTE - Per AHRI, the certified ratings for systems are valid for all combinations of indoor units with the specific outdoor units listed above and in the AHRI Directory of Certified Equipment. Please visit <http://www.ahridirectory.org> for further details and latest updates.

¹ 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 dry bulb/75°F wet 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.

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

² HACR type circuit breaker or fuse.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

NOTE - Adaptors are furnished for the gas pipe connections:

018 - (2) 3/8 x 1/2 in.

030 - (3) 3/8 x 1/2 in.

SPECIFICATIONS - MPA OUTDOOR UNITS

3 - 4 TON

Nominal Size - Tons		3		4	
Outdoor Unit Model No.		MPA036S4M		MPA048S4M	
Number of Zones		Up to 4		Up to 5	
¹ AHRI Ratings	System Type	Ducted	Non-Ducted	Ducted	Non-Ducted
	Cooling - Btuh	34,000	36,000	42,000	42,000
	High Temperature Heating - Btuh	36,000	36,000	51,000	49,000
	Low Temperature Heating - Btuh	24,400	23,400	31,800	31,200
	SEER	15.00	18.00	18.00	20.00
	EER	8.20	8.80	11.00	12.50
	HSPF (Region IV)	9.3	10.0	9.5	10.0
	AHRI Reference Number	8129615	8129614	8129617	8129616
Energy Star		No	No	No	Yes
Ambient Temperature Range - °F	Cooling	5 - 122		5 - 122	
	Heating	-13 - 76		-13 - 76	
Sound Data (dBA)	Cooling	62		58	
	Heating	64		62	
Refrigerant	Charge furnished (R-410A)	7 lbs. 15 oz.		9 lbs. 8 oz.	
Maximum line length with furnished charge (per zone) - ft.		25		25	
	Additional charge required per ft. - oz.	0.161		0.161	
Compressor	No. and Type	Twin-Rotary		Twin-Rotary	
	Refrigerant oil type	FV50S		FV50S	
	Refrigerant oil charge - oz.	36.2		47.3	
Connections - in.	Liquid+Gas+Gas pipe (flare)	(4) 1/4 liq. + (3) 3/8 gas + (1) 1/2 gas		(5) 1/4 liq. + (3) 3/8 gas + (2) 1/2 gas	
	Maximum pipe length for all rooms - ft.	197		246	
	Maximum pipe length for one indoor unit - ft.	98		98	
Maximum height difference between indoor unit and outdoor unit	Outdoor unit <u>above</u> than indoor unit - ft.	33		33	
	Outdoor unit <u>below</u> than indoor unit - ft.	49		49	
Maximum difference in level between indoor units - ft.		33		33	
Outdoor Fan	(No.) Diameter - in.	(1) - 22		(2) - 20	
	Total air volume - cfm	2240		(2) 4240	
		rpm	950		(2) 800
Outdoor Coil	Number of rows	2.6		2	
	Fins per inch	15		15	
	Fin type	Hydrophilic aluminium			
	Tube outside diameter - in.	5/16		5/16	
	Tube type	Rifled copper tubing			
	Net face area - ft. ²	6.42		14.33	
Design Pressure	PSIG	550/340		550/340	
Shipping Data	Net/Shipping weight (lbs.)	162 / 174		218 / 245	
ELECTRICAL DATA					
Electrical Characteristics - 60 Hz - 1 Phase		208/230V		208/230V	
² Maximum Overcurrent Protection (amps)		45		50	
³ Minimum circuit ampacity		30		35	
Compressor Rated load amps		19.5		22	
Outdoor Fan Motor	Rated load amps	1.30		(2) 0.9	
	Output - W	120		(2) 85	

NOTE - Per AHRI, the certified ratings for systems are valid for all combinations of indoor units with the specific outdoor units listed above and in the AHRI Directory of Certified Equipment. Please visit <http://www.ahridirectory.org> for further details and latest updates.

¹ 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 dry bulb/75°F wet 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.

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

² HACR type circuit breaker or fuse.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

NOTE - Adaptors are furnished for the gas pipe connections:

036 - (3) 3/8 x 1/2 in. and (1) 1/2 x 3/8 in.

048 - (3) 3/8 x 1/2 in., (2) 1/2 x 3/8 in., (2) 1/4 x 3/8 in. and (2) 1/2 x 5/8 in.

SPECIFICATIONS - WALL-MOUNTED INDOOR UNITS



Model No.		MWMA009S4	MWMA012S4	MWMA018S4	MWMA024S4
Nominal Tons		0.75	1	1.5	2
Power Supply - 60 hz - 1 phase		208/230V	208/230V	208/230V	208/230V
Rated load amps		0.06	0.06	0.13	0.3
Output (W)		20	20	58	60
Room Temperature Range (°F)	Cooling	62 - 90	62 - 90	62 - 90	62 - 90
	Heating	32 - 86	32 - 86	32 - 86	32 - 86
Air Volume - cfm (High/Medium/Low)		370/270/195	370/275/200	530/410/295	695/625/485
Sound Data (dBA) - Low/Medium/High		26.5/33.4/41.7	28.6/35.8/45.1	30.9/36.3/46.2	35.1/44.5/51.7
Piping Connections - Liquid/Gas - o.d. - flare - in.		1/4 / 3/8	1/4 / 1/2	1/4 / 1/2	3/8 / 5/8
Drain connection o.d. - in.		1	1	1	1
Net/Shipping weights - lbs.		20 / 26	20 / 27	27 / 35	40 / 54

SPECIFICATIONS - CASSETTE INDOOR UNITS



Model No.		M22A009S4	M22A012S4	M22A018S4	M33A024S4
Nominal Tons		0.75	1	1.5	2
Power Supply - 60 hz - 1 phase		208/230V	208/230V	208/230V	208/230V
Rated load amps		0.9	1.0	1.5	2.0
Output (W)		46	46	46	42
Room Temperature Range (°F)	Cooling	62 - 90	62 - 90	62 - 90	62 - 90
	Heating	32 - 86	32 - 86	32 - 86	32 - 86
Air Volume - cfm (High/Medium/Low)		375/300/255	380/310/260	560/485/415	700/635/575
Sound Data (dBA) - Low/Medium/High		33/37/41	36/39/43	36/39/44	43/47/51
Piping Connections - Liquid/Gas - o.d. - flare - in.		1/4 / 3/8	1/4 / 1/2	1/4 / 1/2	3/8 / 5/8
Drain connection o.d. - in.		1	1	1	1-1/4
Net/Shipping weights - lbs. Body		32 / 38	36 / 41	36 / 42	47 / 55

REQUIRED COMPONENTS - ORDERED SEPARATELY

Cassette Panel	13X04 (M0STAT62Q-1)	13X04 (M0STAT62Q-1)	13X04 (M0STAT62Q-1)	13X05 (M0STAT63Q-1)
Net/Shipping weights - lbs.	6 / 10	6 / 10	6 / 10	12 / 18

SPECIFICATIONS - CEILING/FLOOR MOUNT INDOOR UNITS



Model No.	MCFA024S4	
Nominal Tons	2	
Power Supply - 60 hz - 1 phase	208/230V	
Rated load amps	2	
Output (W)	55	
Room Temperature Range (°F)	Cooling	62 - 90
	Heating	32 - 86
Air Volume - cfm (High/Medium/Low)	760/710/600	
Sound Data (dBA) - Low/Medium/High	42/48/53	
Piping Connections - Liquid/Gas - o.d. - flare - in.	3/8 / 5/8	
Drain connection o.d. - in.	1	
Net/Shipping weights - lbs.	59 / 70	

SPECIFICATIONS - MEDIUM STATIC DUCTED INDOOR UNITS



Model No.	MMDA009S4	MMDA012S4	MMDA018S4	MMDA024S4
Nominal Tons	0.75	1	1.5	2
Power Supply - 60 hz - 1 phase	208/230V	208/230V	208/230V	208/230V
Rated load amps	0.9	1	1.5	2
Output (W)	55	55	90	90
Room Temperature Range (°F)	Cooling	62 - 90	62 - 90	62 - 90
	Heating	32 - 86	32 - 86	32 - 86
Air Volume - cfm (High/Medium/Low)	335/290/240	370/320/260	520/430/360	820/620/520
External Static Pressure (in. w.g)	0 - 0.18	0 - 0.18	0 - 0.28	0 - 0.40
Sound Data (dBA) - Low/Medium/High	31/35/38	31/37/44	37/39/41	43/48/53
Piping Connections - Liquid/Gas - o.d. - flare - in.	1/4 / 3/8	1/4 / 1/2	1/4 / 1/2	3/8 / 5/8
Drain connection o.d. - in.	1	1	1	1
Net/Shipping weights - lbs.	40 / 51	42 / 52	51 / 61	58 / 69

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	M9GARD11Q-1	15D22		•		N/A			
	M9GARD12Q-1	15D23		N/A		•	•	N/A	
	M9GARD13Q-1	15D24		N/A		N/A		•	
¹ Line Sets	1/4 in. x 3/8 in. x 25 ft.	90X53	N/A	N/A	•	•	•	•	
	1/4 in. x 3/8 in. x 50 ft.	X0258			•	•	•	•	
	1/4 in. x 1/2 in. x 25 ft.	90X52			•	•	•	•	
	1/4 in. x 1/2 in. x 50 ft.	X0259			•	•	•	•	
	3/8 in. x 5/8 in. x 25 ft.	X8406				N/A	N/A		•
	3/8 in. x 5/8 in. x 50 ft.	X8407				N/A	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									
² Diversitech Condensate Pumps with Reservoir	ClearVue Mini™ - 7.9 US gallons per hour, 35 ft. lift - 120/240V	Y5170	•	•	•	•	N/A		
	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	•	•	•	•			
² Blue Diamond® Condensate Pumps with Reservoir	MicroBlue® - 1.3 US gallons per hour, 6 ft. lift - 110v-230V	14T74	•	•	•	N/A	N/A		
	MaxiBlue® - 3.7 US gallons per hour, 16.5 ft. lift - 208-230V	14T69	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 See Connections and Line Set Usage tables on page 22.

² Y7946, Y7949 and 14T74 condensate pumps can be installed inside the indoor units. All other pumps must be installed external to the indoor unit.

MULTI-ZONE SYSTEM COMBINATIONS

NOTE - For multi-zone systems, the total capacity of all indoor units must be 66% to 133% of the outdoor unit capacity.

Outdoor Unit Model No.	Number of Zones	Indoor Unit Capacity					Nominal Cooling Capacity at Rated System Capacity (Btuh)					Nominal Heating Capacity at Rated System Capacity (Btuh)					
		#1	#2	#3	#4	#5	#1	#2	#3	#4	#5	#1	#2	#3	#4	#5	
MPA018S4M	1	012	---	---	---	---	11,977	---	---	---	---	11,373	---	---	---	---	
	2	009	009	---	---	---	9,000	9,000	---	---	---	9,250	9,250	---	---	---	
		009	012	---	---	---	8,379	10,313	---	---	---	8,538	10,508	---	---	---	
		012	012	---	---	---	9,450	9,450	---	---	---	9,735	9,735	---	---	---	
MPA030S4M	1	018	---	---	---	---	18,345	---	---	---	---	19,730	---	---	---	---	
	2	009	009	---	---	---	9,258	9,258	---	---	---	10,961	10,961	---	---	---	
		009	012	---	---	---	9,115	11,219	---	---	---	10,564	13,002	---	---	---	
		009	018	---	---	---	8,803	17,944	---	---	---	10,521	21,448	---	---	---	
		012	012	---	---	---	11,521	11,521	---	---	---	12,605	12,605	---	---	---	
		012	018	---	---	---	10,327	17,105	---	---	---	12,379	20,503	---	---	---	
		018	018	---	---	---	15,390	15,390	---	---	---	18,453	18,453	---	---	---	
	3	009	009	009	---	---	8,915	8,915	8,915	---	---	10,656	10,656	10,656	---	---	
		009	009	012	---	---	9,244	9,244	11,512	---	---	10,234	10,234	12,596	---	---	
		009	012	012	---	---	8,681	10,684	10,684	---	---	9,605	11,821	11,821	---	---	
		009	009	018	---	---	7,316	7,316	14,632	---	---	8,197	8,197	16,394	---	---	
		012	012	012	---	---	9,755	9,755	9,755	---	---	10,929	10,929	10,929	---	---	
	MPA036S4M	2	009	018	---	---	---	8,788	17,913	---	---	---	9,540	19,447	---	---	---
			012	012	---	---	---	10,287	10,287	---	---	---	11,864	11,864	---	---	---
			012	018	---	---	---	10,052	16,649	---	---	---	10,913	18,074	---	---	---
018			018	---	---	---	17,200	17,200	---	---	---	18,240	18,240	---	---	---	
3		009	009	009	---	---	8,900	8,900	8,900	---	---	9,476	9,476	9,476	---	---	
		009	009	012	---	---	8,265	8,265	10,172	---	---	8,972	8,972	11,043	---	---	
		009	009	018	---	---	8,518	8,518	17,364	---	---	9,033	9,033	18,414	---	---	
		009	012	012	---	---	9,228	11,357	11,357	---	---	10,301	12,679	12,679	---	---	
		009	012	018	---	---	8,202	10,094	16,719	---	---	8,347	10,273	17,015	---	---	
		009	018	018	---	---	7,640	15,575	15,575	---	---	7,664	15,624	15,624	---	---	
		012	012	012	---	---	10,648	10,648	10,648	---	---	11,886	11,886	11,886	---	---	
		012	012	018	---	---	9,901	9,901	16,399	---	---	10,031	10,031	16,614	---	---	
4		009	009	009	009	---	9,000	9,000	9,000	9,000	---	9,000	9,000	9,000	9,000	---	
		009	009	009	012	---	9,371	9,371	9,371	11,534	---	9,031	9,031	9,031	11,115	---	
		009	009	009	018	---	8,204	8,204	8,204	16,723	---	7,902	7,902	7,902	16,109	---	
		009	009	012	012	---	8,887	8,887	10,937	10,937	---	8,564	8,564	10,540	10,540	---	
		009	009	012	018	---	8,062	8,062	9,923	16,435	---	7,823	7,823	9,628	15,946	---	
	009	012	012	012	---	8,809	10,842	10,842	10,842	---	8,485	10,444	10,444	10,444	---		
	012	012	012	012	---	10,334	10,334	10,334	10,334	---	9,954	9,954	9,954	9,954	---		

¹ One outdoor unit may be matched with one indoor unit for single zone applications. A second indoor unit can be added at a later date for multi-zone applications.

MULTI-ZONE SYSTEM COMBINATIONS

NOTE - For multi-zone systems, the total capacity of all indoor units must be 66% to 133% of the outdoor unit capacity.

Outdoor Unit Model No.	Number of Zones	Indoor Unit Capacity					Nominal Cooling Capacity at Rated System Capacity (Btuh)					Nominal Heating Capacity at Rated System Capacity (Btuh)				
		#1	#2	#3	#4	#5	#1	#2	#3	#4	#5	#1	#2	#3	#4	#5
MPA048S4M	2	009	024	---	---	---	8,854	23,432	---	---	---	9,294	24,601	---	---	---
		012	018	---	---	---	11,790	17,461	---	---	---	12,650	18,655	---	---	---
		012	024	---	---	---	11,691	23,322	---	---	---	11,961	24,402	---	---	---
		018	018	---	---	---	16,826	16,826	---	---	---	18,245	18,245	---	---	---
		018	024	---	---	---	16,748	23,631	---	---	---	18,155	25,210	---	---	---
		024	024	---	---	---	23,294	23,294	---	---	---	24,855	24,855	---	---	---
	3	009	009	009	---	---	9,294	9,294	9,294	---	---	9,680	9,680	9,680	---	---
		009	009	012	---	---	9,063	9,063	11,906	---	---	9,565	9,565	12,750	---	---
		009	009	018	---	---	8,952	8,952	17,965	---	---	9,540	9,540	18,455	---	---
		009	009	024	---	---	8,834	8,834	23,332	---	---	9,235	9,235	24,505	---	---
		009	012	012	---	---	9,027	12,089	12,089	---	---	9,425	12,850	12,850	---	---
		009	012	018	---	---	9,001	11,636	17,334	---	---	9,345	12,585	18,119	---	---
		009	012	024	---	---	8,922	11,621	23,222	---	---	9,330	11,950	24,395	---	---
		009	018	018	---	---	8,844	17,193	17,193	---	---	9,320	17,875	17,875	---	---
		009	018	024	---	---	8,685	16,321	22,111	---	---	9,220	16,675	22,660	---	---
		009	024	024	---	---	8,421	21,121	21,121	---	---	9,021	21,521	21,521	---	---
		012	012	012	---	---	11,981	11,981	11,981	---	---	12,648	12,648	12,648	---	---
		012	012	018	---	---	11,945	11,945	17,021	---	---	12,355	12,355	18,105	---	---
		012	018	018	---	---	10,756	16,530	16,530	---	---	11,550	18,035	18,035	---	---
		012	012	024	---	---	11,583	11,583	23,111	---	---	11,910	11,910	24,355	---	---
		012	018	024	---	---	11,093	16,210	22,035	---	---	11,755	16,545	22,580	---	---
		012	024	024	---	---	9,900	20,768	20,768	---	---	11,440	21,760	21,760	---	---
		018	018	018	---	---	16,405	16,405	16,405	---	---	17,170	17,170	17,170	---	---
		018	018	024	---	---	15,383	15,383	20,270	---	---	15,865	15,865	22,155	---	---

¹ One outdoor unit may be matched with one indoor unit for single zone applications. A second indoor unit can be added at a later date for multi-zone applications.

MULTI-ZONE SYSTEM COMBINATIONS

NOTE - For multi-zone systems, the total capacity of all indoor units must be 66% to 133% of the outdoor unit capacity.

Outdoor Unit Model No.	Number of Zones	Indoor Unit Capacity					Nominal Cooling Capacity at Rated System Capacity (Btuh)					Nominal Heating Capacity at Rated System Capacity (Btuh)				
		#1	#2	#3	#4	#5	#1	#2	#3	#4	#5	#1	#2	#3	#4	#5
MPA048S4M	4	009	009	009	009	---	9,049	9,049	9,049	9,049	---	9,595	9,595	9,595	9,595	---
		009	009	009	012	---	8,971	8,971	8,971	11,857	---	9,470	9,470	9,470	12,725	---
		009	009	009	018	---	8,883	8,883	8,883	16,875	---	9,385	9,385	9,355	17,760	---
		009	009	009	024	---	8,521	8,521	8,521	21,673	---	9,155	9,155	9,055	22,755	---
		009	009	012	012	---	8,922	8,922	11,678	11,678	---	9,360	9,360	12,280	12,280	---
		009	009	012	018	---	8,865	8,865	11,566	16,469	---	9,340	9,340	12,123	17,435	---
		009	009	012	024	---	8,447	8,447	10,888	21,554	---	9,140	9,140	11,550	21,675	---
		009	009	018	018	---	8,491	8,491	16,484	16,484	---	9,175	9,175	16,535	16,535	---
		009	009	018	024	---	8,252	8,252	15,295	20,113	---	9,050	9,050	15,765	21,520	---
		009	012	012	012	---	8,813	11,584	11,584	11,584	---	9,330	12,141	12,141	12,141	---
		009	012	012	018	---	8,534	11,256	11,256	16,381	---	9,185	12,010	12,010	17,442	---
		009	012	012	024	---	8,354	10,502	10,502	21,165	---	9,150	9,150	12,165	21,545	---
		009	012	018	018	---	8,398	10,643	16,371	16,371	---	9,155	11,650	16,465	16,465	---
		012	012	012	012	---	11,381	11,381	11,381	11,381	---	12,035	12,035	12,035	12,035	---
		012	012	012	018	---	10,697	10,697	10,697	16,611	---	11,755	11,755	11,755	16,550	---
		012	012	012	024	---	10,130	10,130	10,130	20,666	---	11,210	11,210	11,210	20,155	---
	012	012	018	018	---	10,115	10,115	15,774	15,774	---	11,240	11,240	16,235	16,235	---	
	5	009	009	009	009	009	9,000	9,000	9,000	9,000	9,000	9,800	9,800	9,800	9,800	9,800
		009	009	009	009	012	8,814	8,814	8,814	8,814	11,729	9,534	9,534	9,534	9,534	12,862
		009	009	009	009	018	8,672	8,672	8,672	8,672	16,753	9,355	9,355	9,355	9,355	16,825
009		009	009	009	024	8,295	8,295	8,295	8,295	19,032	9,095	9,095	9,095	9,095	19,535	
009		009	009	012	012	8,687	8,687	8,687	11,079	11,079	9,305	9,305	9,335	12,325	12,325	
009		009	009	012	018	8,486	8,486	8,486	10,849	15,598	9,105	9,105	9,105	12,025	16,325	
009		009	012	012	012	8,501	8,501	11,387	11,387	11,387	9,213	9,213	11,870	11,870	11,870	
009		009	012	012	018	8,457	8,457	10,815	10,815	14,253	8,933	8,933	10,967	10,967	15,870	
009		012	012	012	012	8,550	10,414	10,414	10,414	10,414	8,525	11,525	11,525	11,525	11,525	
012		012	012	012	012	10,306	10,306	10,306	10,306	10,306	11,055	11,055	11,055	11,055	11,055	

¹ One outdoor unit may be matched with one indoor unit for single zone applications. A second indoor unit can be added at a later date for multi-zone applications.

CONNECTIONS AND LINE SET USAGE

Outdoor Model	No. of Zones	Indoor Unit Capacity (Unit No.)	Line Set Required (Liquid x Gas)
MPA018S4M Indoor Unit A 1/4" liq + 3/8" gas Indoor Unit B 1/4" liq + 3/8" gas	1	012 (A)	¹ 1/4 in. x 1/2 in.
	2	009 (A)	1/4 in. x 3/8 in.
		009 (B)	1/4 in. x 3/8 in.
	2	009 (B)	1/4 in. x 3/8 in.
012 (A)		¹ 1/4 in. x 1/2 in.	
2	012 (A)	¹ 1/4 in. x 1/2 in.	
	012 (B)	¹ 1/4 in. x 1/2 in.	
MPA030S4M Indoor Unit A 1/4" liq + 3/8" gas Indoor Unit B 1/4" liq + 3/8" gas Indoor Unit C 1/4" liq + 3/8" gas	1	018 (A)	¹ 1/4 in. x 1/2 in.
	2	009 (A)	1/4 in. x 3/8 in.
		009 (B)	1/4 in. x 3/8 in.
	2	009 (B)	1/4 in. x 3/8 in.
		012 (A)	¹ 1/4 in. x 1/2 in.
	2	009 (B)	1/4 in. x 3/8 in.
		018 (A)	¹ 1/4 in. x 1/2 in.
	2	012 (A)	¹ 1/4 in. x 1/2 in.
		012 (B)	¹ 1/4 in. x 1/2 in.
	2	012 (B)	¹ 1/4 in. x 1/2 in.
		018 (A)	¹ 1/4 in. x 1/2 in.
	2	018 (A)	¹ 1/4 in. x 1/2 in.
		018 (B)	¹ 1/4 in. x 1/2 in.
	3	009 (A)	1/4 in. x 3/8 in.
009 (B)		1/4 in. x 3/8 in.	
3	009 (C)	1/4 in. x 3/8 in.	
	012 (A)	¹ 1/4 in. x 1/2 in.	
3	009 (C)	1/4 in. x 3/8 in.	
	012 (A)	¹ 1/4 in. x 1/2 in.	
	012 (B)	¹ 1/4 in. x 1/2 in.	
3	009 (B)	1/4 in. x 3/8 in.	
	009 (C)	1/4 in. x 3/8 in.	
	018 (A)	¹ 1/4 in. x 1/2 in.	
3	012 (A)	¹ 1/4 in. x 1/2 in.	
	012 (B)	¹ 1/4 in. x 1/2 in.	
	012 (C)	¹ 1/4 in. x 1/2 in.	
MPA036S4M Indoor Unit A 1/4" liq + 1/2" gas Indoor Unit B 1/4" liq + 3/8" gas Indoor Unit C 1/4" liq + 3/8" gas Indoor Unit D 1/4" liq + 3/8" gas	2	009 (B)	1/4 in. x 3/8 in.
		018 (A)	1/4 in. x 1/2 in.
	2	012 (A)	1/4 in. x 1/2 in.
		012 (B)	¹ 1/4 in. x 1/2 in.
2	012 (B)	¹ 1/4 in. x 1/2 in.	
	018 (A)	1/4 in. x 1/2 in.	
2	018 (A)	1/4 in. x 1/2 in.	
	018 (B)	¹ 1/4 in. x 1/2 in.	

¹ 3/8 x 1/2 in. gas pipe adaptor is required for line set connection to outdoor unit (furnished with outdoor unit).

² 1/4 x 3/8 in. liquid pipe adaptor is required for line set connection to the 048 outdoor unit (furnished with outdoor unit).

³ 1/2 x 5/8 in. gas pipe adaptor is required for line set connection to the 048 outdoor unit (furnished with outdoor unit).

CONNECTIONS AND LINE SET USAGE

Outdoor Model	No. of Zones	Indoor Unit Capacity (Unit No.)	Line Set Required (Liquid x Gas)
MPA036S4M Indoor Unit A 1/4" liq + 1/2" gas Indoor Unit B 1/4" liq + 3/8" gas Indoor Unit C 1/4" liq + 3/8" gas Indoor Unit D 1/4" liq + 3/8" gas	3	009 (B)	1/4 in. x 3/8 in.
		009 (C)	1/4 in. x 3/8 in.
		009 (D)	1/4 in. x 3/8 in.
	3	009 (B)	1/4 in. x 3/8 in.
		009 (C)	1/4 in. x 3/8 in.
		012 (A)	1/4 in. x 1/2 in.
	3	009 (B)	1/4 in. x 3/8 in.
		009 (C)	1/4 in. x 3/8 in.
		012 (A)	¹ 1/4 in. x 1/2 in.
	3	009 (C)	1/4 in. x 3/8 in.
		012 (B)	¹ 1/4 in. x 1/2 in.
		018 (A)	1/4 in. x 1/2 in.
3	009 (C)	1/4 in. x 3/8 in.	
	018 (A)	1/4 in. x 1/2 in.	
	018 (B)	¹ 1/4 in. x 1/2 in.	
3	012 (A)	1/4 in. x 1/2 in.	
	012 (B)	¹ 1/4 in. x 1/2 in.	
	012 (C)	¹ 1/4 in. x 1/2 in.	
3	012 (C)	¹ 1/4 in. x 1/2 in.	
	018 (A)	1/4 in. x 1/2 in.	
	018 (B)	¹ 1/4 in. x 1/2 in.	
4	009 (B)	1/4 in. x 3/8 in.	
	009 (C)	1/4 in. x 3/8 in.	
	009 (D)	1/4 in. x 3/8 in.	
4	009 (A)	¹ 1/4 in. x 3/8 in.	
	009 (B)	1/4 in. x 3/8 in.	
	009 (C)	1/4 in. x 3/8 in.	
4	009 (D)	1/4 in. x 3/8 in.	
	018 (A)	1/4 in. x 1/2 in.	
	012 (A)	1/4 in. x 1/2 in.	
4	009 (B)	1/4 in. x 3/8 in.	
	009 (C)	1/4 in. x 3/8 in.	
	009 (D)	1/4 in. x 3/8 in.	
4	018 (A)	1/4 in. x 1/2 in.	
	012 (A)	1/4 in. x 1/2 in.	
	012 (B)	¹ 1/4 in. x 1/2 in.	

¹ 3/8 x 1/2 in. gas pipe adaptor is required for line set connection to outdoor unit (furnished with outdoor unit).

² 1/4 x 3/8 in. liquid pipe adaptor is required for line set connection to the 048 outdoor unit (furnished with outdoor unit).

³ 1/2 x 5/8 in. gas pipe adaptor is required for line set connection to the 048 outdoor unit (furnished with outdoor unit).

CONNECTIONS AND LINE SET USAGE

Outdoor Model	No. of Zones	Indoor Unit Capacity (Unit No.)	Line Set Required (Liquid x Gas)
MPA036S4M Indoor Unit A 1/4" liq + 1/2" gas Indoor Unit B 1/4" liq + 3/8" gas Indoor Unit C 1/4" liq + 3/8" gas Indoor Unit D 1/4" liq + 3/8" gas	4	009 (C)	1/4 in. x 3/8 in.
		009 (D)	1/4 in. x 3/8 in.
		012 (B)	¹ 1/4 in. x 1/2 in.
		018 (A)	1/4 in. x 1/2 in.
	4	009 (D)	1/4 in. x 3/8 in.
		012 (A)	1/4 in. x 1/2 in.
		012 (B)	¹ 1/4 in. x 1/2 in.
		012 (C)	¹ 1/4 in. x 1/2 in.
	4	012 (A)	1/4 in. x 1/2 in.
		012 (B)	¹ 1/4 in. x 1/2 in.
		012 (C)	¹ 1/4 in. x 1/2 in.
		012 (D)	¹ 1/4 in. x 1/2 in.
MPA048S4M Indoor Unit A 1/4" liq + 1/2" gas Indoor Unit B 1/4" liq + 1/2" gas Indoor Unit C 1/4" liq + 3/8" gas Indoor Unit D 1/4" liq + 3/8" gas Indoor Unit E 1/4" liq + 3/8" gas	2	009 (B)	¹ 1/4 in. x 3/8 in.
		024 (A)	^{2,3} 3/8 in. x 5/8 in.
	2	012 (B)	1/4 in. x 1/2 in.
		018 (A)	1/4 in. x 1/2 in.
	2	012 (B)	1/4 in. x 1/2 in.
		024 (A)	^{2,3} 3/8 in. x 5/8 in.
	2	018 (A)	1/4 in. x 1/2 in.
		018 (B)	1/4 in. x 1/2 in.
	2	018 (B)	1/4 in. x 1/2 in.
		024 (A)	^{2,3} 3/8 in. x 5/8 in.
	2	024 (A)	^{2,3} 3/8 in. x 5/8 in.
		024 (B)	^{2,3} 3/8 in. x 5/8 in.
	3	009 (A)	¹ 1/4 in. x 3/8 in.
		009 (B)	¹ 1/4 in. x 3/8 in.
		009 (C)	1/4 in. x 3/8 in.
	3	009 (B)	¹ 1/4 in. x 3/8 in.
		009 (C)	1/4 in. x 3/8 in.
	3	009 (C)	1/4 in. x 3/8 in.
012 (A)		1/4 in. x 1/2 in.	
012 (B)		1/4 in. x 1/2 in.	
3	009 (C)	1/4 in. x 3/8 in.	
	012 (B)	1/4 in. x 1/2 in.	
	018 (A)	1/4 in. x 1/2 in.	

¹ 3/8 x 1/2 in. gas pipe adaptor is required for line set connection to outdoor unit (furnished with outdoor unit).

² 1/4 x 3/8 in. liquid pipe adaptor is required for line set connection to the 048 outdoor unit (furnished with outdoor unit).

³ 1/2 x 5/8 in. gas pipe adaptor is required for line set connection to the 048 outdoor unit (furnished with outdoor unit).

CONNECTIONS AND LINE SET USAGE

Outdoor Model	No. of Zones	Indoor Unit Capacity (Unit No.)	Line Set Required (Liquid x Gas)
MPA048S4M Indoor Unit A 1/4" liq + 1/2" gas Indoor Unit B 1/4" liq + 1/2" gas Indoor Unit C 1/4" liq + 3/8" gas Indoor Unit D 1/4" liq + 3/8" gas Indoor Unit E 1/4" liq + 3/8" gas	3	009 (C)	1/4 in. x 3/8 in.
		012 (B)	1/4 in. x 1/2 in.
		024 (A)	^{2,3} 3/8 in. x 5/8 in.
	3	009 (C)	1/4 in. x 3/8 in.
		018 (A)	1/4 in. x 1/2 in.
		018 (B)	1/4 in. x 1/2 in.
	3	009 (C)	1/4 in. x 3/8 in.
		018 (B)	1/4 in. x 1/2 in.
		024 (A)	^{2,3} 3/8 in. x 5/8 in.
	3	009 (C)	1/4 in. x 3/8 in.
		024 (A)	^{2,3} 3/8 in. x 5/8 in.
		024 (B)	^{2,3} 3/8 in. x 5/8 in.
	3	012 (A)	1/4 in. x 1/2 in.
		012 (B)	1/4 in. x 1/2 in.
		012 (C)	¹ 1/4 in. x 1/2 in.
	3	012 (C)	1/4 in. x 1/2 in.
		018 (A)	1/4 in. x 1/2 in.
		018 (B)	¹ 1/4 in. x 1/2 in.
3	012 (B)	1/4 in. x 1/2 in.	
	018 (A)	1/4 in. x 1/2 in.	
	018 (B)	¹ 1/4 in. x 1/2 in.	
3	012 (C)	1/4 in. x 1/2 in.	
	024 (A)	^{2,3} 3/8 in. x 5/8 in.	
	024 (B)	^{2,3} 3/8 in. x 5/8 in.	
3	018 (A)	1/4 in. x 1/2 in.	
	018 (B)	1/4 in. x 1/2 in.	
	018 (C)	¹ 1/4 in. x 1/2 in.	
3	018 (B)	1/4 in. x 1/2 in.	
	018 (C)	¹ 1/4 in. x 1/2 in.	
	024 (A)	^{2,3} 3/8 in. x 5/8 in.	
4	009 (A)	¹ 1/4 in. x 3/8 in.	
	009 (B)	¹ 1/4 in. x 3/8 in.	
	009 (C)	1/4 in. x 3/8 in.	
4	009 (D)	1/4 in. x 3/8 in.	
	009 (B)	¹ 1/4 in. x 3/8 in.	
	009 (C)	1/4 in. x 3/8 in.	
4	009 (D)	1/4 in. x 3/8 in.	
	009 (C)	1/4 in. x 3/8 in.	
	012 (A)	1/4 in. x 1/2 in.	

¹ 3/8 x 1/2 in. gas pipe adaptor is required for line set connection to outdoor unit (furnished with outdoor unit).

² 1/4 x 3/8 in. liquid pipe adaptor is required for line set connection to the 048 outdoor unit (furnished with outdoor unit).

³ 1/2 x 5/8 in. gas pipe adaptor is required for line set connection to the 048 outdoor unit (furnished with outdoor unit).

CONNECTIONS AND LINE SET USAGE

Outdoor Model	No. of Zones	Indoor Unit Capacity (Unit No.)	Line Set Required (Liquid x Gas)
MPA048S4M Indoor Unit A 1/4" liq + 1/2" gas Indoor Unit B 1/4" liq + 1/2" gas Indoor Unit C 1/4" liq + 3/8" gas Indoor Unit D 1/4" liq + 3/8" gas Indoor Unit E 1/4" liq + 3/8" gas	4	009 (B)	¹ 1/4 in. x 3/8 in.
		009 (C)	1/4 in. x 3/8 in.
		009 (D)	1/4 in. x 3/8 in.
		018 (A)	1/4 in. x 1/2 in.
	4	009 (B)	¹ 1/4 in. x 3/8 in.
		009 (C)	1/4 in. x 3/8 in.
		009 (D)	1/4 in. x 3/8 in.
		024 (A)	^{2,3} 3/8 in. x 5/8 in.
	4	009 (C)	1/4 in. x 3/8 in.
		009 (D)	1/4 in. x 3/8 in.
		012 (A)	1/4 in. x 1/2 in.
	4	012 (B)	1/4 in. x 1/2 in.
		009 (C)	1/4 in. x 3/8 in.
		009 (D)	1/4 in. x 3/8 in.
	4	012 (B)	1/4 in. x 1/2 in.
		018 (A)	1/4 in. x 1/2 in.
009 (C)		1/4 in. x 3/8 in.	
009 (D)		1/4 in. x 3/8 in.	
4	018 (B)	1/4 in. x 1/2 in.	
	024 (A)	^{2,3} 3/8 in. x 5/8 in.	
	009 (D)	1/4 in. x 3/8 in.	
	012 (A)	¹ 1/4 in. x 1/2 in.	
4	012 (B)	¹ 1/4 in. x 1/2 in.	
	012 (C)	1/4 in. x 1/2 in.	
	009 (D)	1/4 in. x 3/8 in.	
4	012 (C)	¹ 1/4 in. x 1/2 in.	
	018 (A)	1/4 in. x 1/2 in.	
	018 (B)	1/4 in. x 1/2 in.	
	012 (A)	1/4 in. x 1/2 in.	
4	012 (B)	1/4 in. x 1/2 in.	
	012 (C)	¹ 1/4 in. x 1/2 in.	
	012 (D)	¹ 1/4 in. x 1/2 in.	
	012 (B)	1/4 in. x 1/2 in.	
4	012 (C)	¹ 1/4 in. x 1/2 in.	
	012 (D)	¹ 1/4 in. x 1/2 in.	
	018 (A)	1/4 in. x 1/2 in.	
	018 (A)	1/4 in. x 1/2 in.	

¹ 3/8 x 1/2 in. gas pipe adaptor is required for line set connection to outdoor unit (furnished with outdoor unit).

² 1/4 x 3/8 in. liquid pipe adaptor is required for line set connection to the 048 outdoor unit (furnished with outdoor unit).

³ 1/2 x 5/8 in. gas pipe adaptor is required for line set connection to the 048 outdoor unit (furnished with outdoor unit).

CONNECTIONS AND LINE SET USAGE

Outdoor Model	No. of Zones	Indoor Unit Capacity (Unit No.)	Line Set Required (Liquid x Gas)
MPA048S4M Indoor Unit A 1/4" liq + 1/2" gas Indoor Unit B 1/4" liq + 1/2" gas Indoor Unit C 1/4" liq + 3/8" gas Indoor Unit D 1/4" liq + 3/8" gas Indoor Unit E 1/4" liq + 3/8" gas	5	009 (A)	¹ 1/4 in. x 3/8 in.
		009 (B)	¹ 1/4 in. x 3/8 in.
		009 (C)	1/4 in. x 3/8 in.
		009 (D)	1/4 in. x 3/8 in.
		009 (E)	1/4 in. x 3/8 in.
	5	009 (B)	¹ 1/4 in. x 3/8 in.
		009 (C)	1/4 in. x 3/8 in.
		009 (D)	1/4 in. x 3/8 in.
		009 (E)	1/4 in. x 3/8 in.
		012 (A)	1/4 in. x 1/2 in.
	5	009 (B)	¹ 1/4 in. x 3/8 in.
		009 (C)	1/4 in. x 3/8 in.
		009 (D)	1/4 in. x 3/8 in.
		009 (E)	1/4 in. x 3/8 in.
		018 (A)	1/4 in. x 1/2 in.
	5	009 (B)	¹ 1/4 in. x 3/8 in.
		009 (C)	1/4 in. x 3/8 in.
		009 (D)	1/4 in. x 3/8 in.
		009 (E)	1/4 in. x 3/8 in.
		024 (A)	^{2,3} 3/8 in. x 5/8 in.
5	009 (C)	1/4 in. x 3/8 in.	
	009 (D)	1/4 in. x 3/8 in.	
	009 (E)	1/4 in. x 3/8 in.	
	012 (A)	1/4 in. x 1/2 in.	
	012 (B)	1/4 in. x 1/2 in.	
5	009 (C)	1/4 in. x 3/8 in.	
	009 (D)	1/4 in. x 3/8 in.	
	009 (E)	1/4 in. x 3/8 in.	
	012 (B)	1/4 in. x 1/2 in.	
	018 (A)	1/4 in. x 1/2 in.	
5	009 (D)	1/4 in. x 3/8 in.	
	009 (E)	1/4 in. x 3/8 in.	
	012 (A)	1/4 in. x 1/2 in.	
	012 (B)	1/4 in. x 1/2 in.	
	012 (C)	¹ 1/4 in. x 1/2 in.	
5	009 (D)	1/4 in. x 3/8 in.	
	009 (E)	1/4 in. x 3/8 in.	
	012 (B)	1/4 in. x 1/2 in.	
	012 (C)	¹ 1/4 in. x 1/2 in.	
	018 (A)	1/4 in. x 1/2 in.	
5	009 (E)	1/4 in. x 3/8 in.	
	012 (A)	1/4 in. x 1/2 in.	
	012 (B)	1/4 in. x 1/2 in.	
	012 (C)	¹ 1/4 in. x 1/2 in.	
	012 (D)	¹ 1/4 in. x 1/2 in.	
5	012 (A)	1/4 in. x 1/2 in.	
	012 (B)	1/4 in. x 1/2 in.	
	012 (C)	¹ 1/4 in. x 1/2 in.	
	012 (D)	¹ 1/4 in. x 1/2 in.	
	012 (E)	¹ 1/4 in. x 1/2 in.	

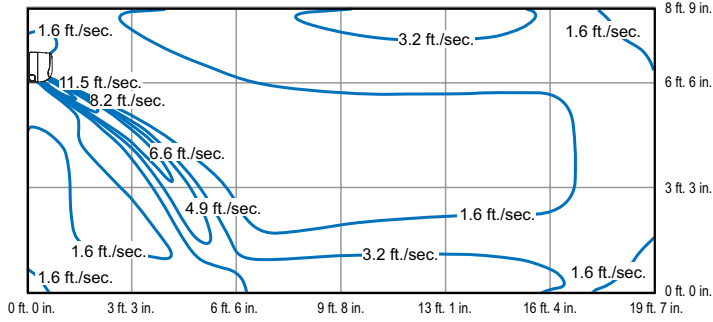
¹ 3/8 x 1/2 in. gas pipe adaptor is required for line set connection to outdoor unit (furnished with outdoor unit).

² 1/4 x 3/8 in. liquid pipe adaptor is required for line set connection to the 048 outdoor unit (furnished with outdoor unit).

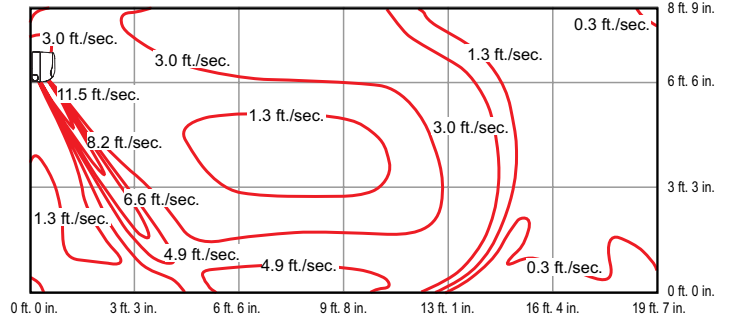
³ 1/2 x 5/8 in. gas pipe adaptor is required for line set connection to the 048 outdoor unit (furnished with outdoor unit).

AIR THROW DATA - WALL-MOUNTED INDOOR UNITS

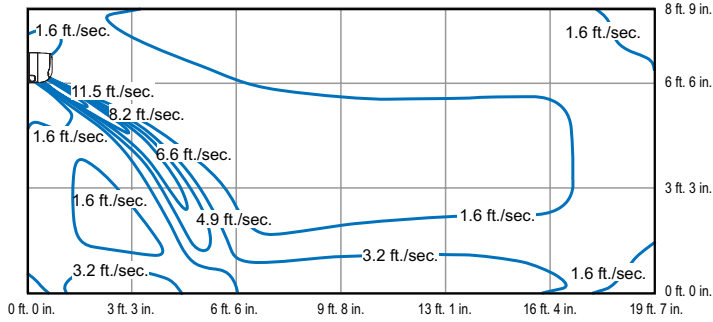
MWMA009S4 - COOLING



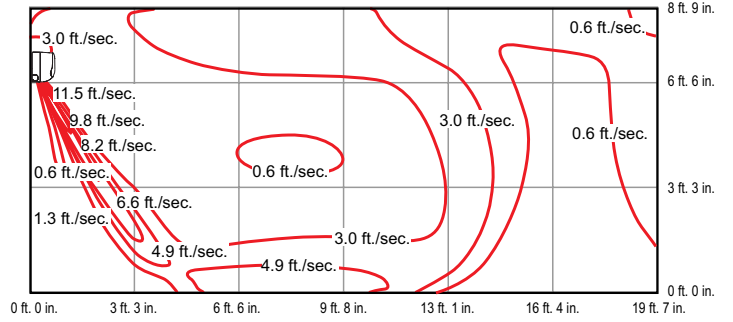
MWMA009S4 - HEATING



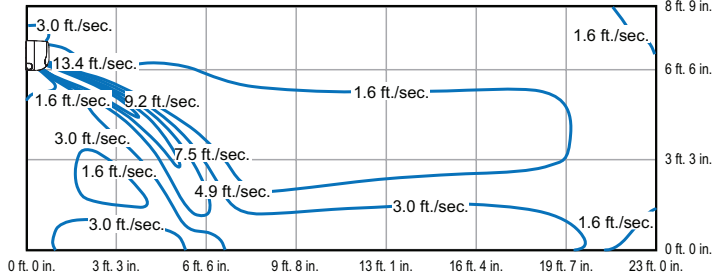
MWMA012S4 - COOLING



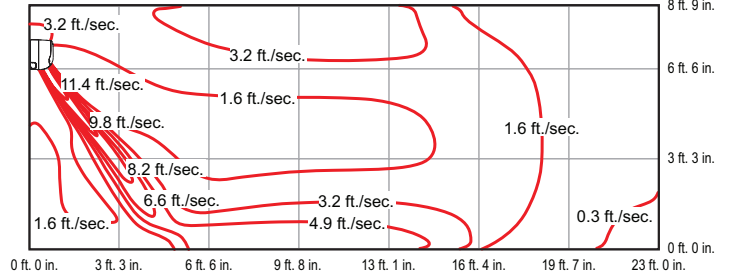
MWMA012S4 - HEATING



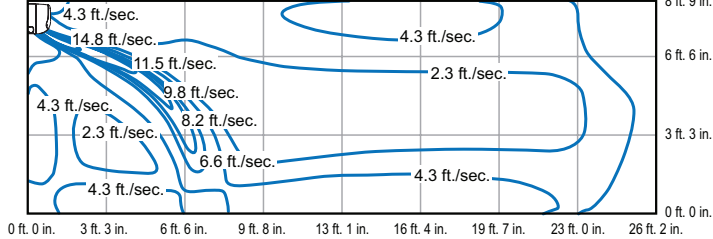
MWMA018S4 - COOLING



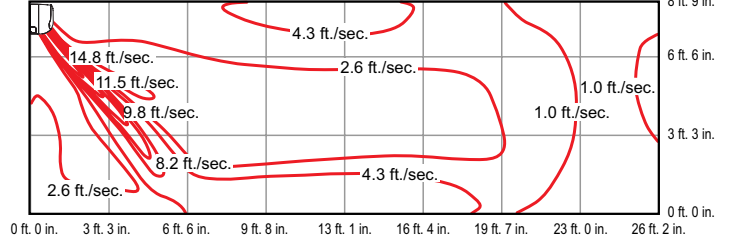
MWMA018S4 - HEATING



MWMA024S4 - COOLING

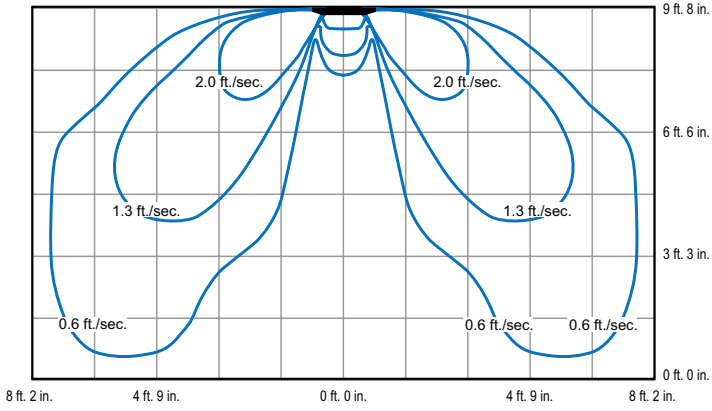


MWMA024S4 - HEATING

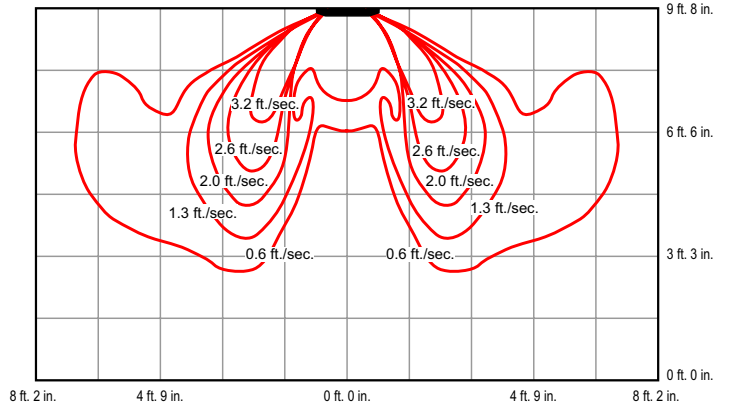


AIR THROW DATA - CASSETTE INDOOR UNITS

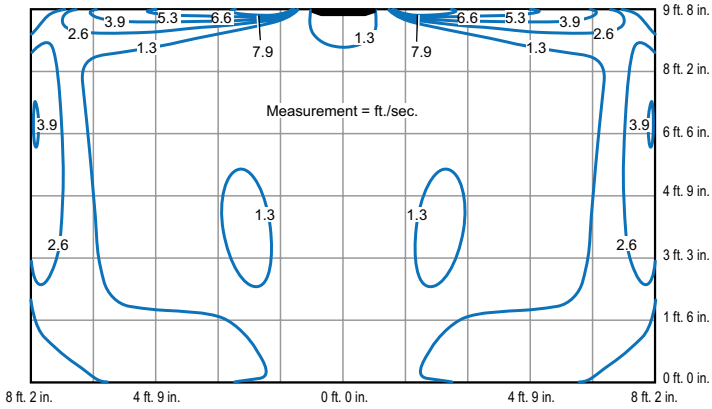
M22A009S4 AND M22A012S4 - COOLING



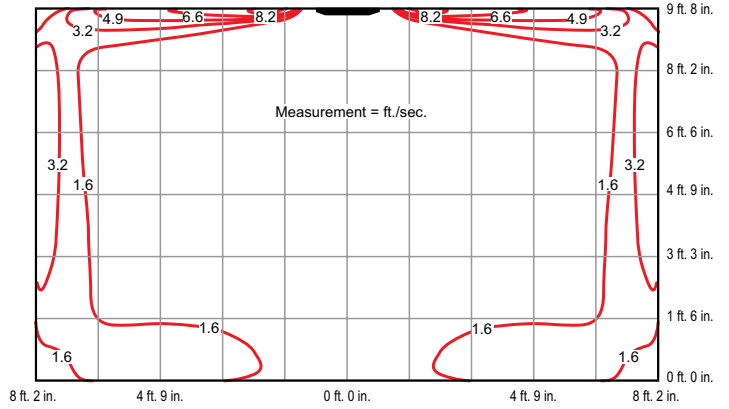
M22A009S4 AND M22A012S4 - HEATING



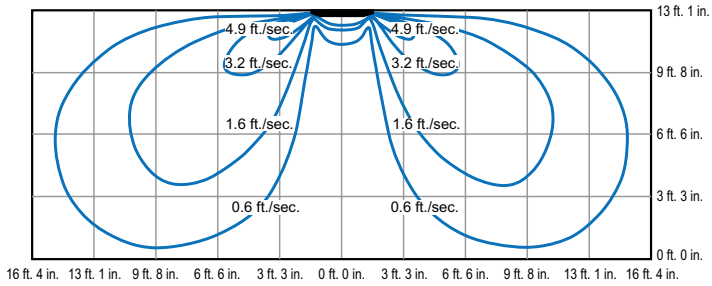
M22A018S4 - COOLING



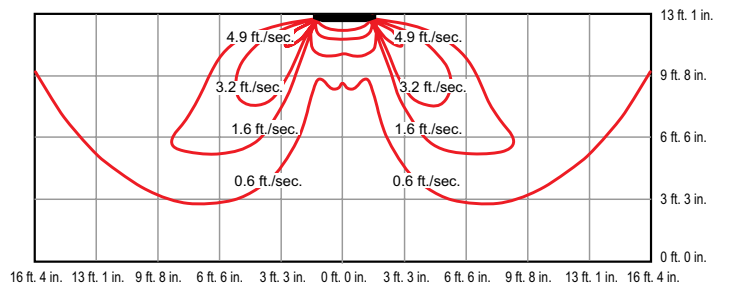
M22A018S4 - HEATING



M33A024S4 - COOLING

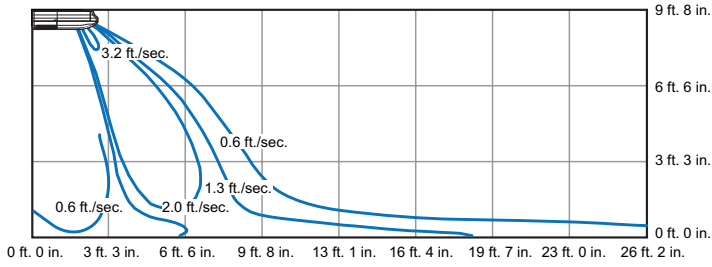


M33A024S4 - HEATING

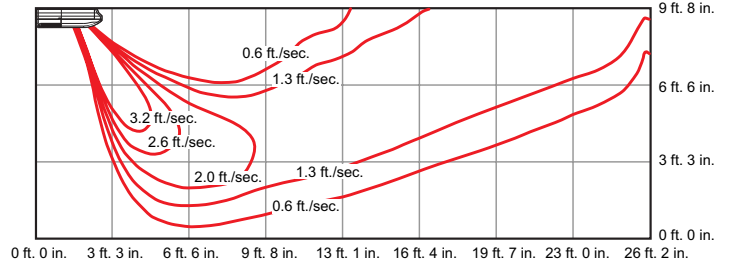


AIR THROW DATA - CEILING/FLOOR MOUNT INDOOR UNITS

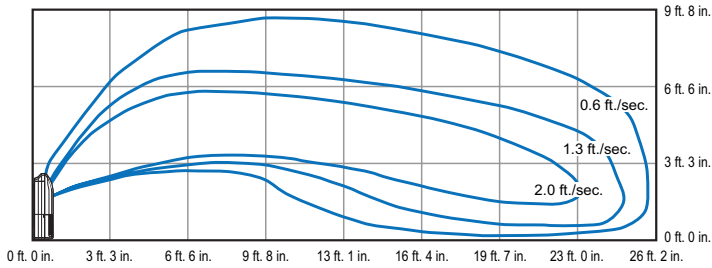
MCFA024S4 - COOLING - CEILING



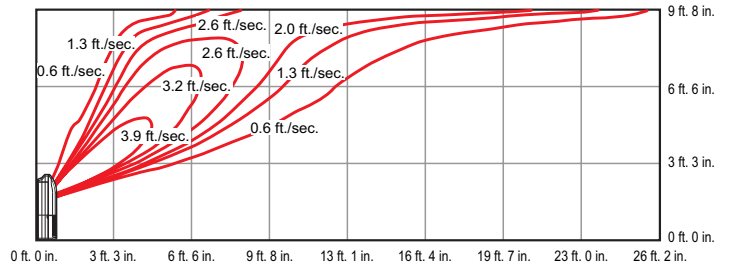
MCFA024S4 - HEATING - CEILING



MCFA024S4 - COOLING - FLOOR

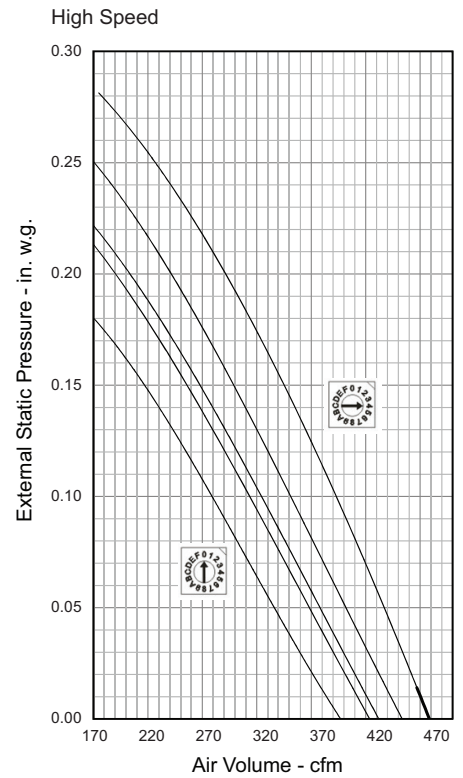
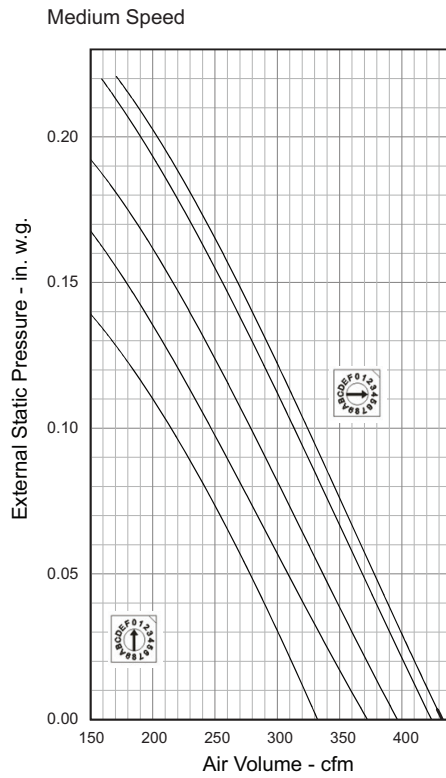
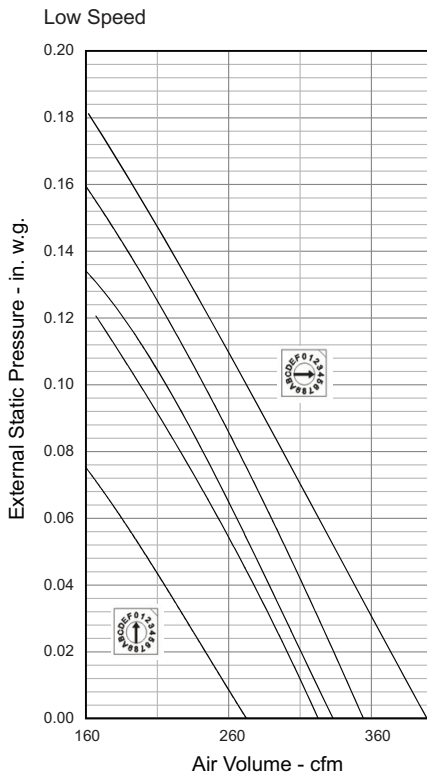


MCFA024S4 - HEATING - FLOOR

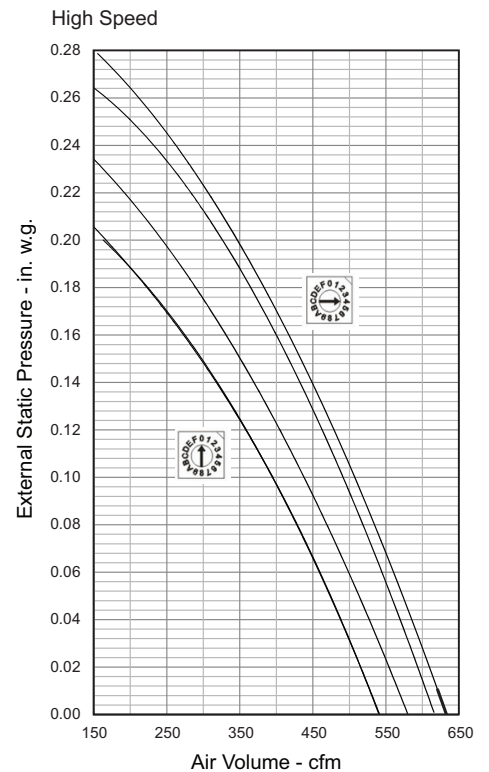
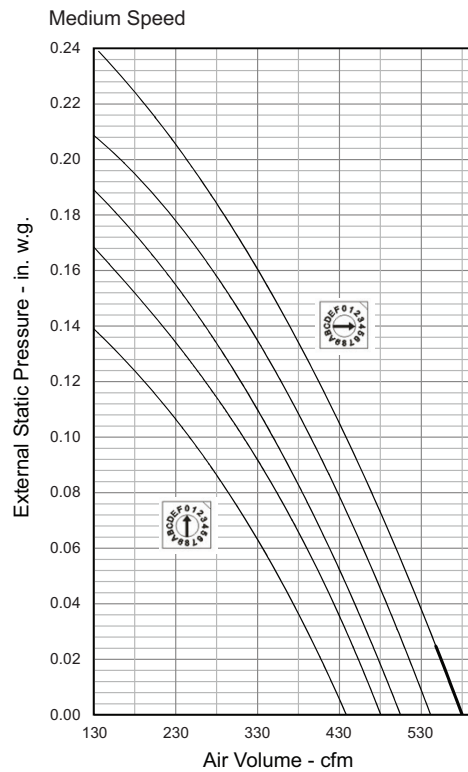
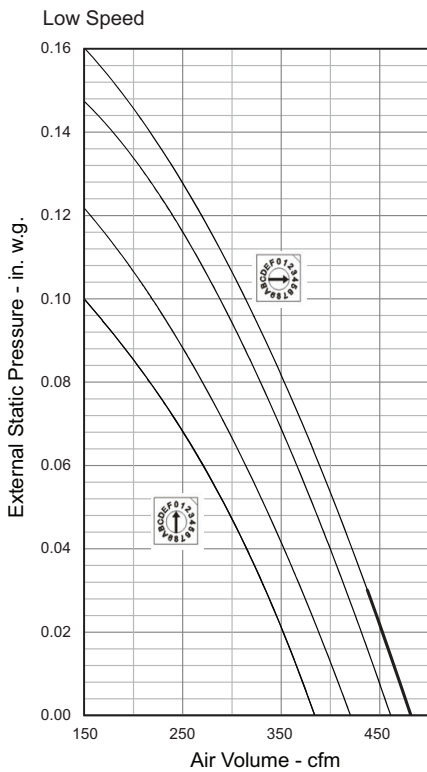


BLOWER DATA - MEDIUM STATIC DUCTED INDOOR UNITS

MMDA009S4, MMDA012S4

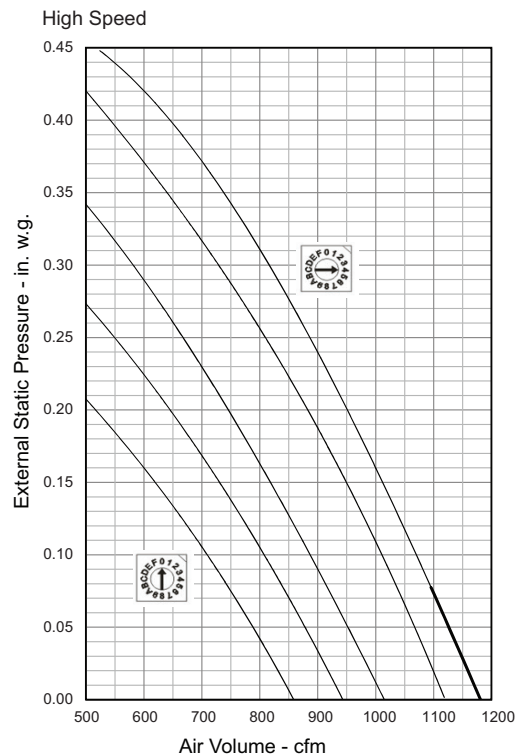
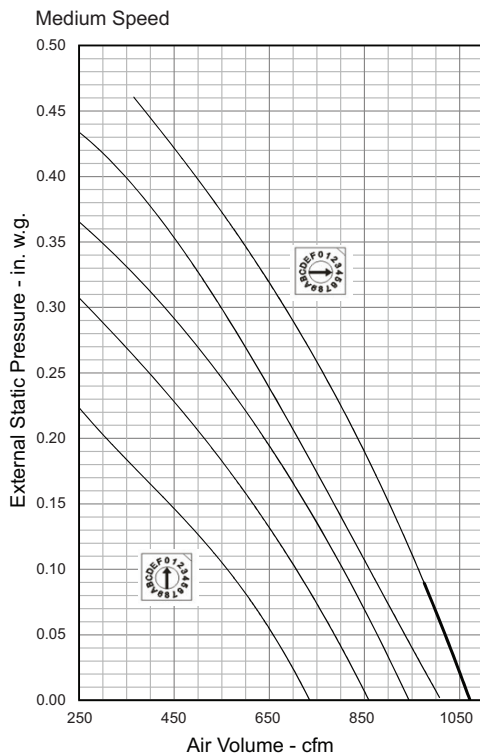
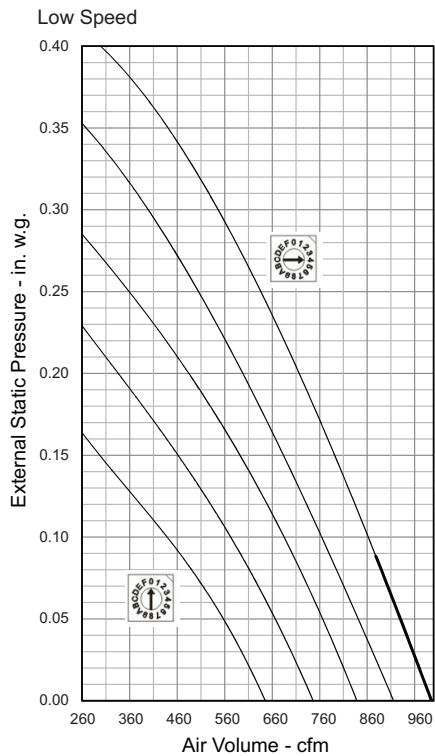


MMDA018S4-1P



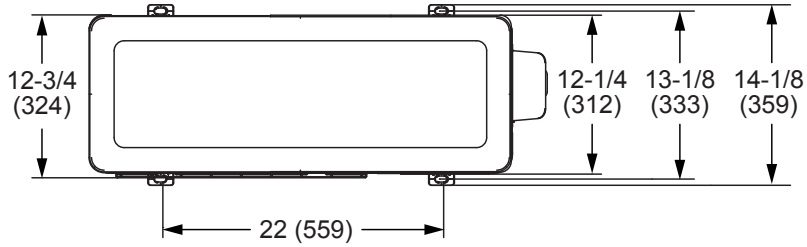
BLOWER DATA - MEDIUM STATIC DUCTED INDOOR UNITS

MMDA024S4

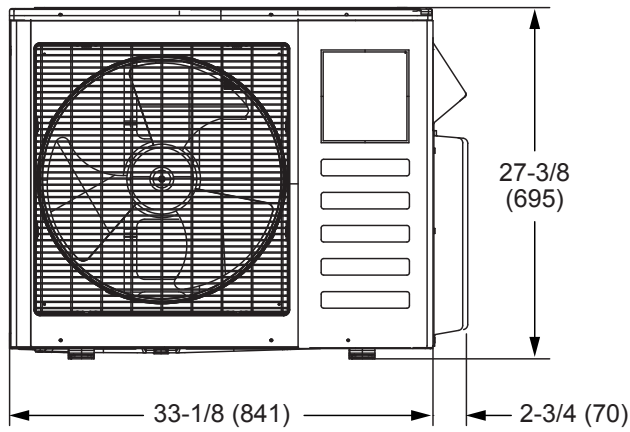


DIMENSIONS - OUTDOOR UNITS - INCHES (MM)

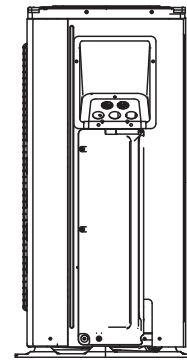
MPA018S4M



TOP VIEW



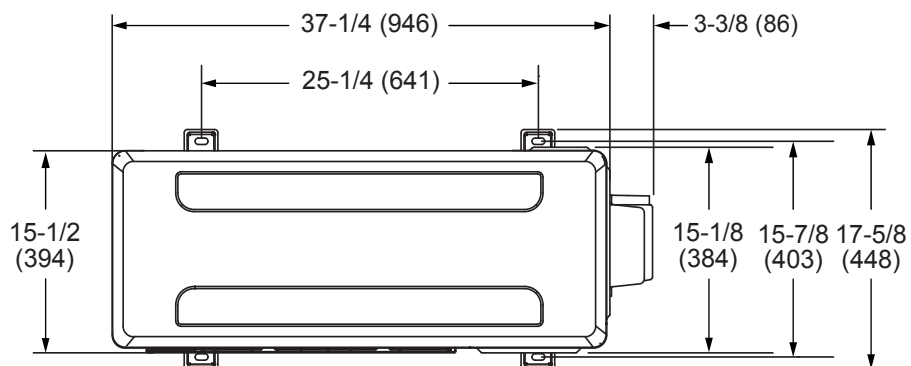
FRONT VIEW



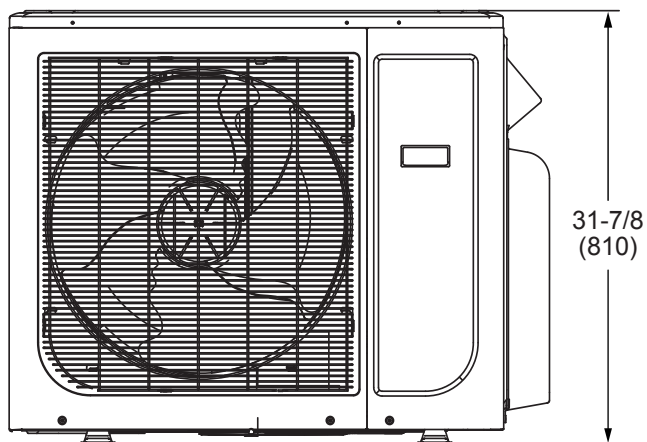
SIDE VIEW

DIMENSIONS - OUTDOOR UNITS - INCHES (MM)

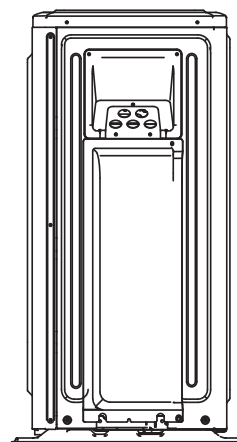
MPA030S4M, MPA036S4M



TOP VIEW



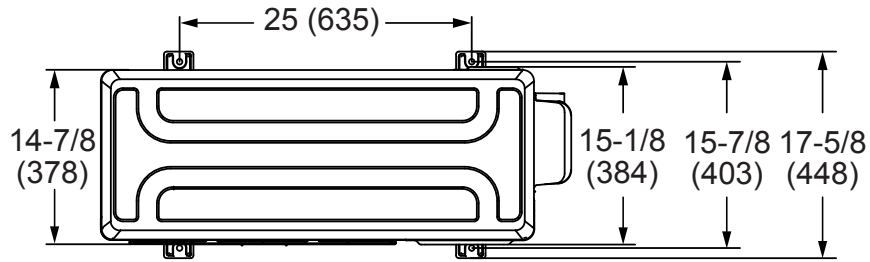
FRONT VIEW



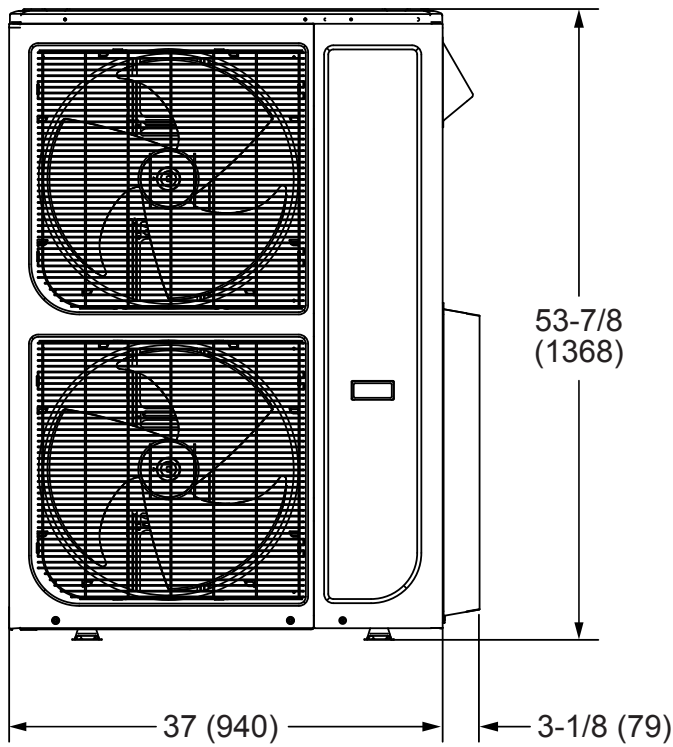
SIDE VIEW

DIMENSIONS - OUTDOOR UNITS - INCHES (MM)

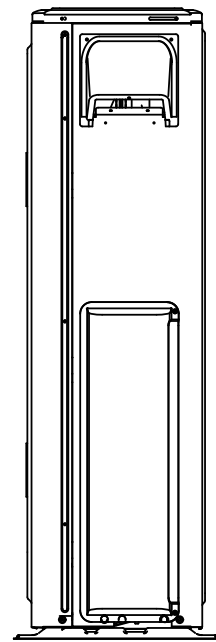
MPA048S4M



TOP VIEW



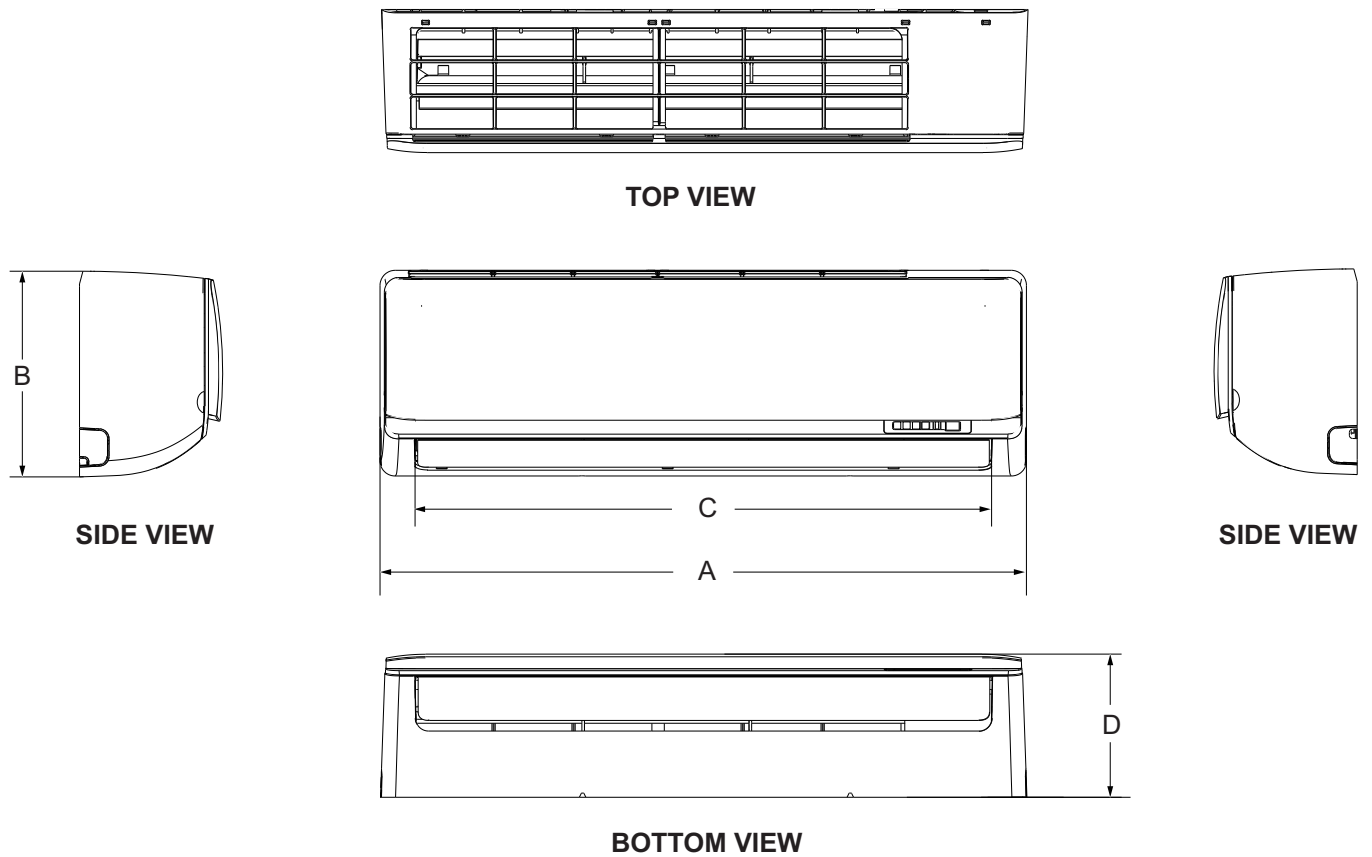
FRONT VIEW



SIDE VIEW

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

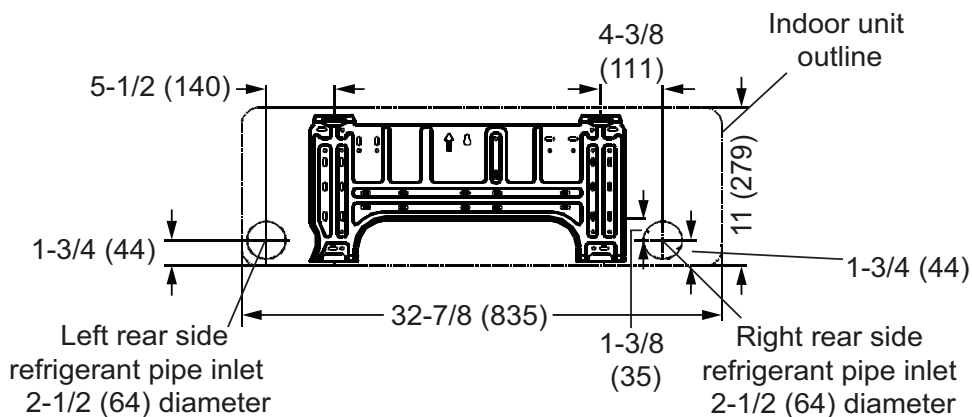
MWMA009S4, MWMA012S4, MWMA018S4, MWMA024S4



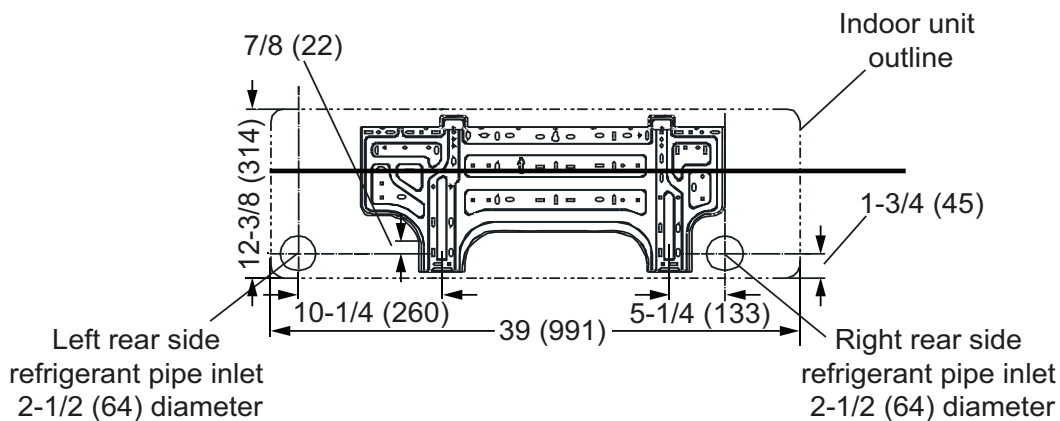
Size	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
009, 012	32-7/8	835	11	279	29-1/4	743	7-7/8	200
018	39	991	12-3/8	314	34-3/4	883	8-5/8	219
024	46-3/4	1187	13-1/2	343	42-1/2	1080	10-1/4	260

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

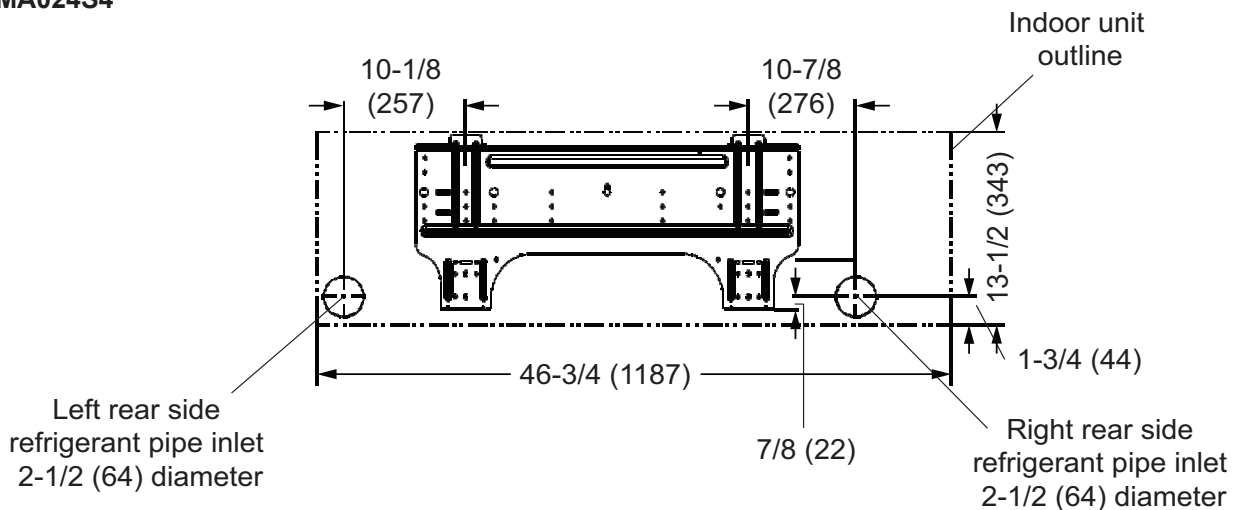
MWMA009S4 and MWMA012S4



MWMA018S4

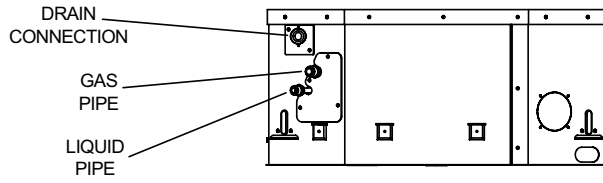


MWMA024S4

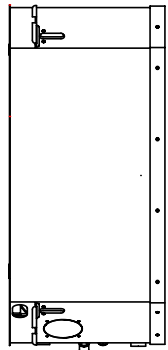


DIMENSIONS - CASSETTE INDOOR UNITS - INCHES (MM)

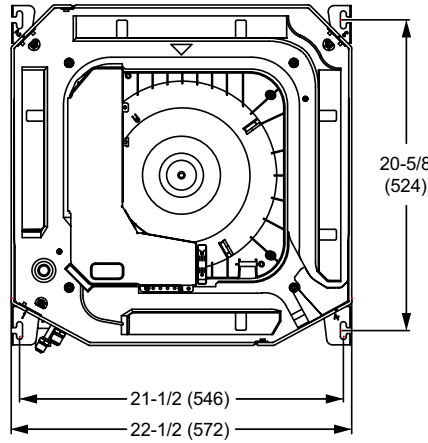
M22A009S4, M22A012S4, M22A018S4



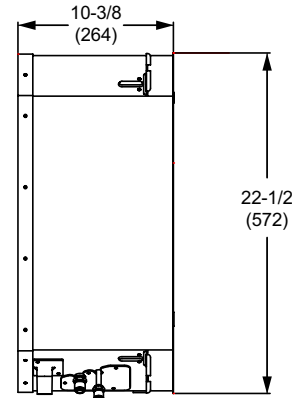
SIDE VIEW



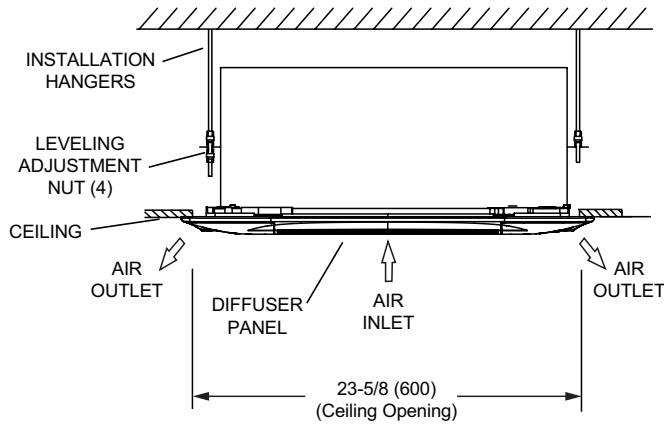
LEFT SIDE VIEW



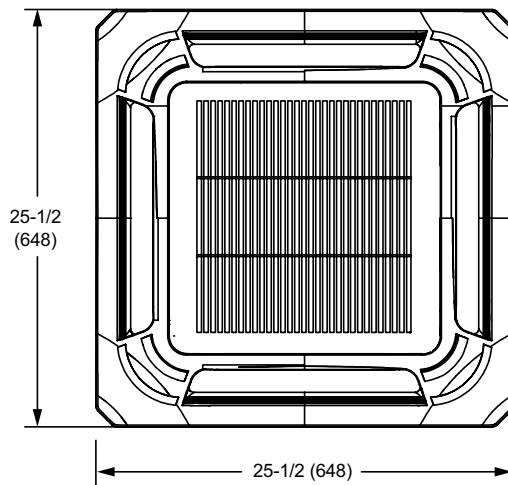
BOTTOM VIEW (Body)



RIGHT SIDE VIEW



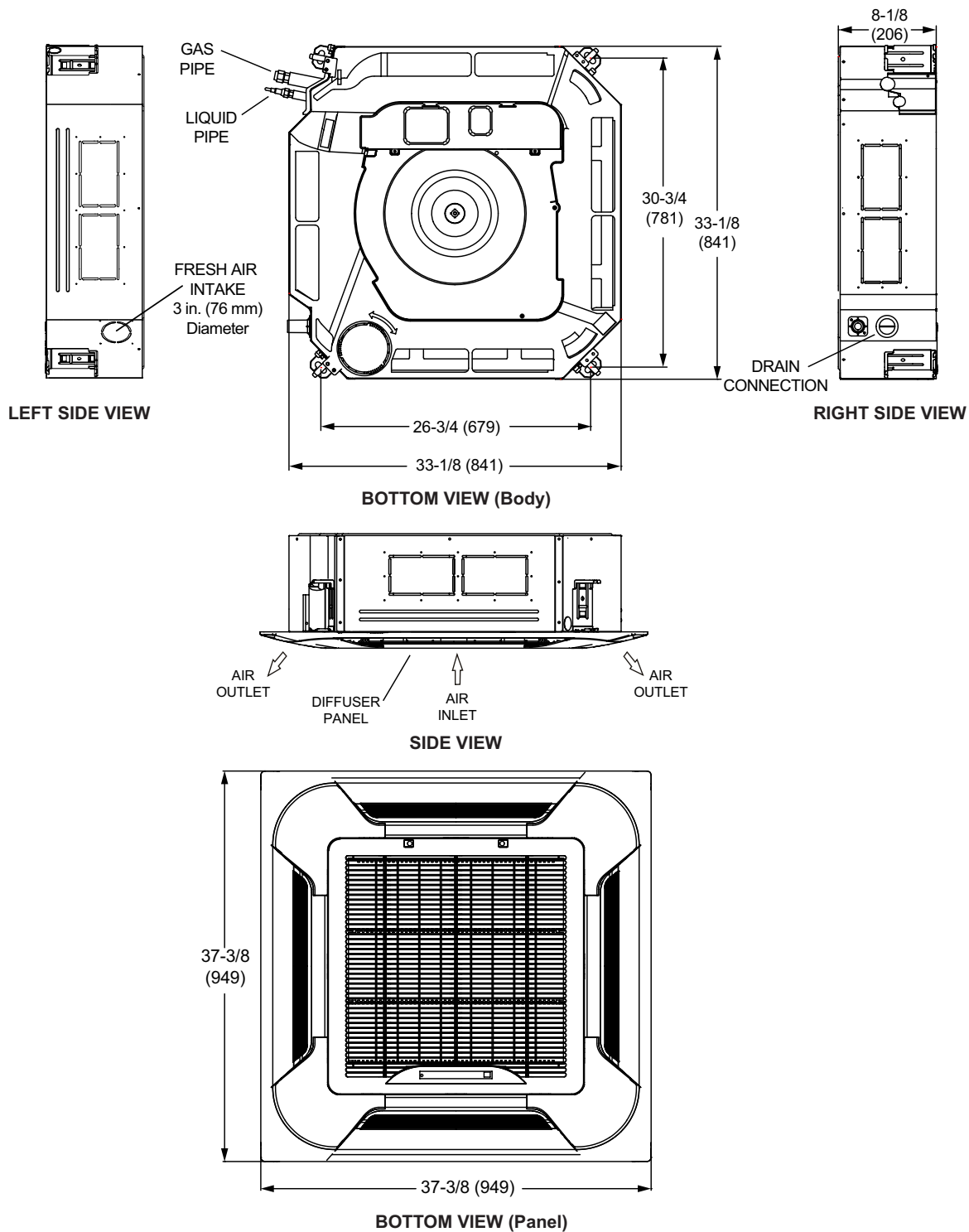
SIDE VIEW



BOTTOM VIEW (Panel)

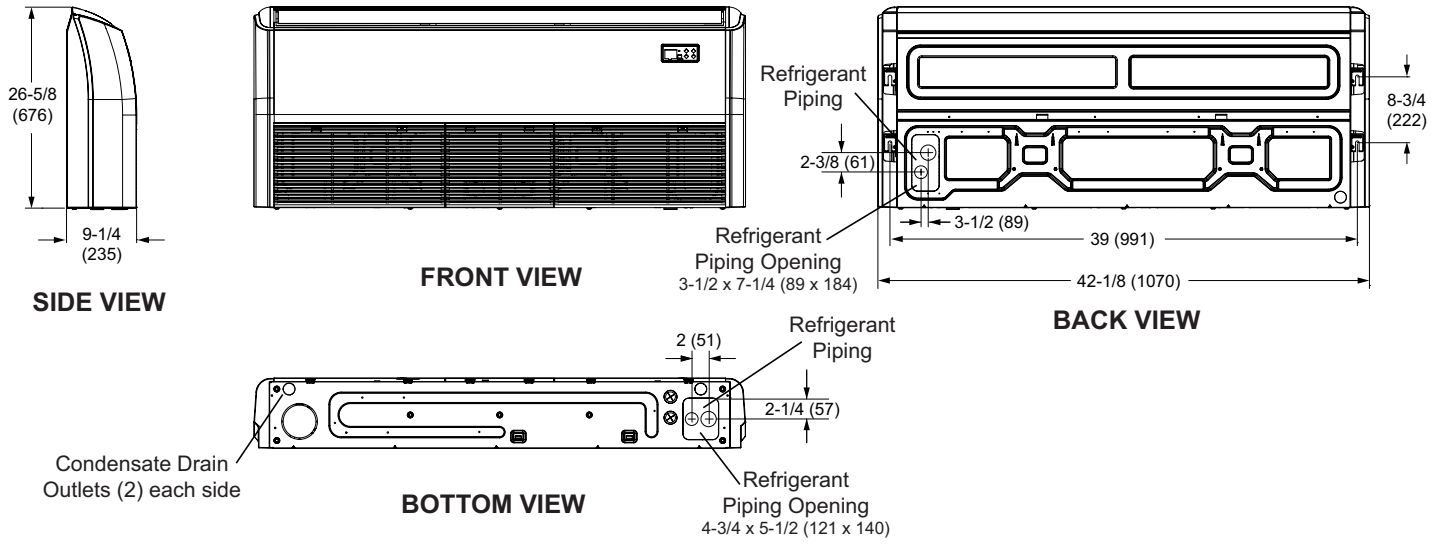
DIMENSIONS - CASSETTE INDOOR UNITS - INCHES (MM)

M33024S4



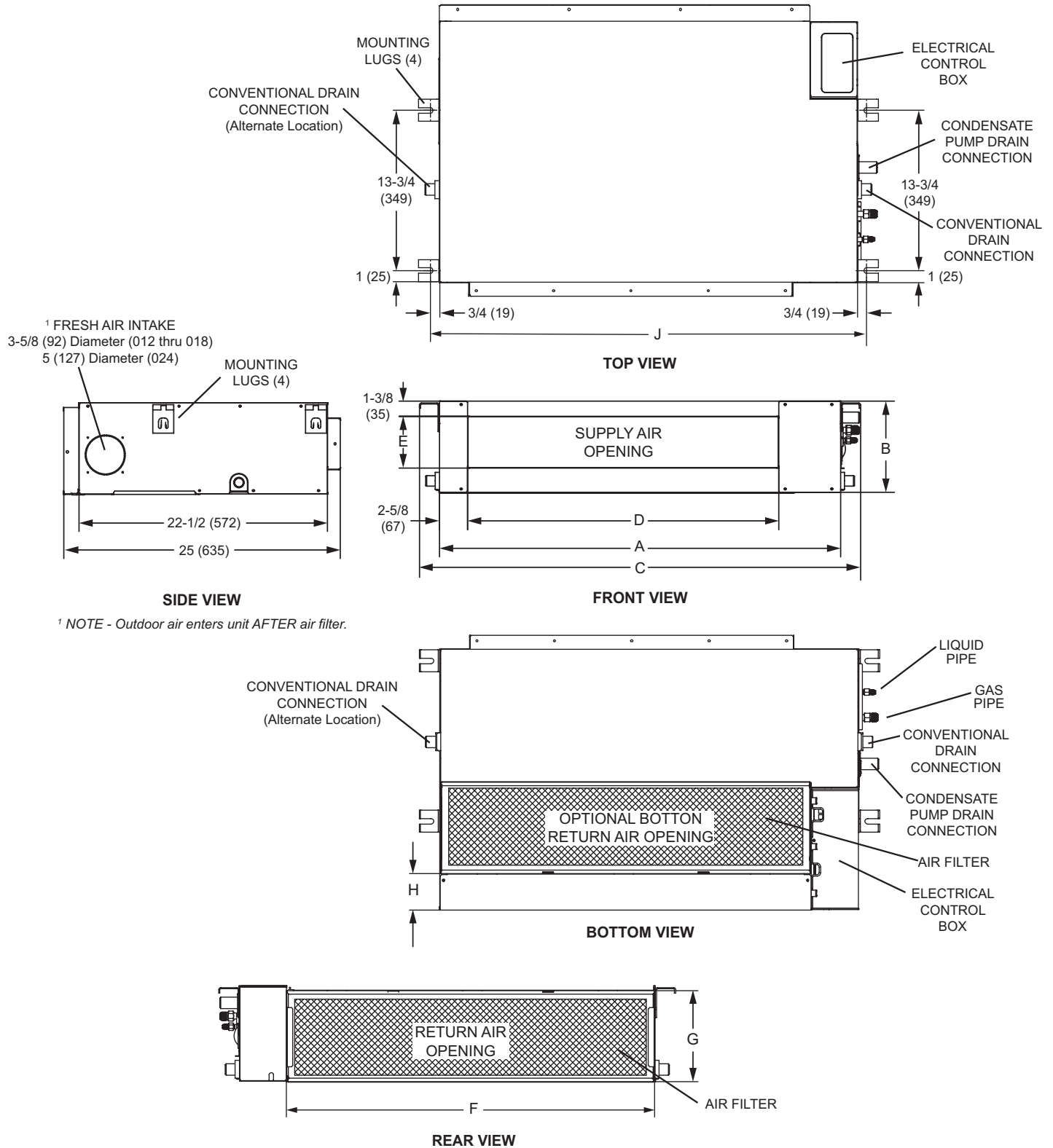
DIMENSIONS - CEILING/FLOOR MOUNT INDOOR UNITS - INCHES (MM)

MCFA024S4



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

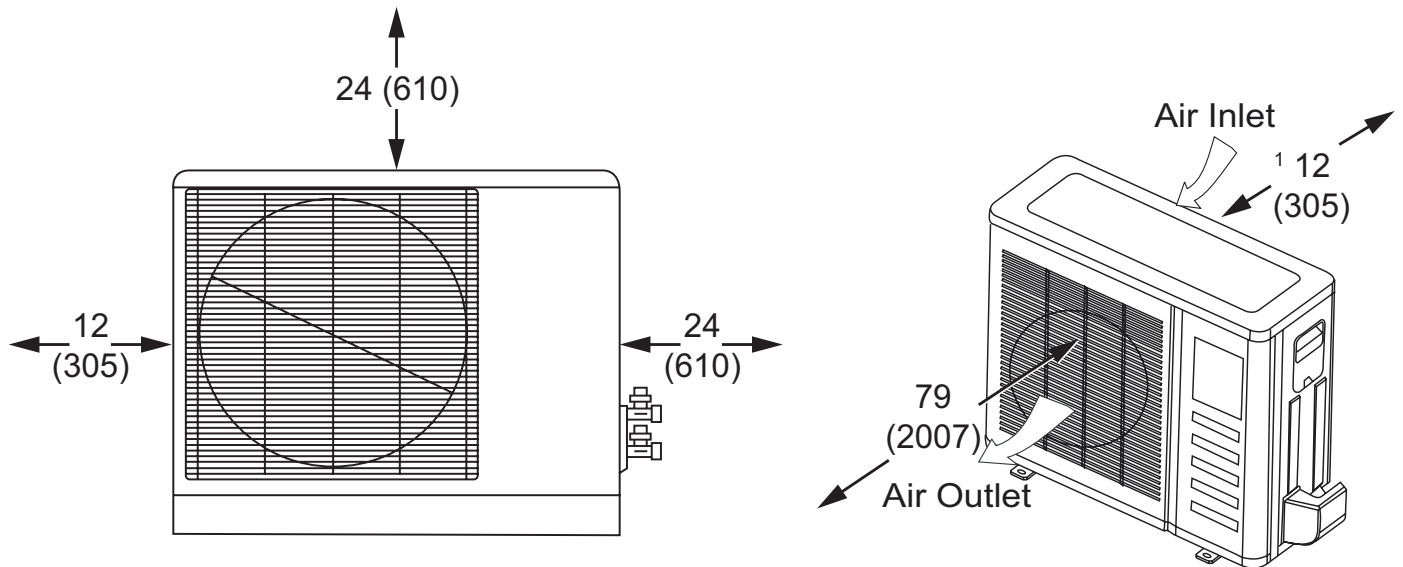
MMDA009S4, MMDA012S4, MMDA018S4, MMDA024S4



¹ NOTE - Outdoor air enters unit AFTER air filter.

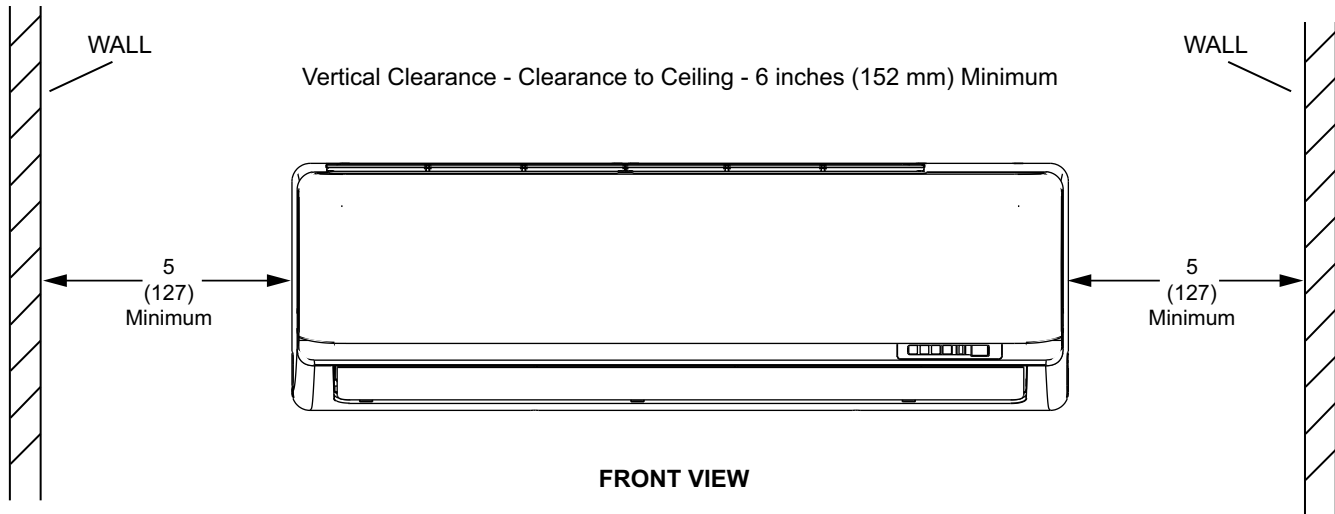
Size	A		B		C		D		E		F		G		H		J	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
009 thru 012	27-5/8	702	8-1/4	210	31-1/8	791	19-1/2	495	4-5/8	117	23-1/2	597	7-7/8	200	3-1/8	79	29-1/8	740
018	36-1/4	921	8-1/4	210	39-3/4	1010	28	711	4-5/8	117	32	813	7-7/8	200	3-1/8	79	37-3/4	959
024	36-1/4	921	10-5/8	270	39-3/4	1010	28	711	7	178	32	813	10-1/4	260	3/4	19	37-3/4	959

INSTALLATION CLEARANCES - OUTDOOR UNITS - INCHES (MM)



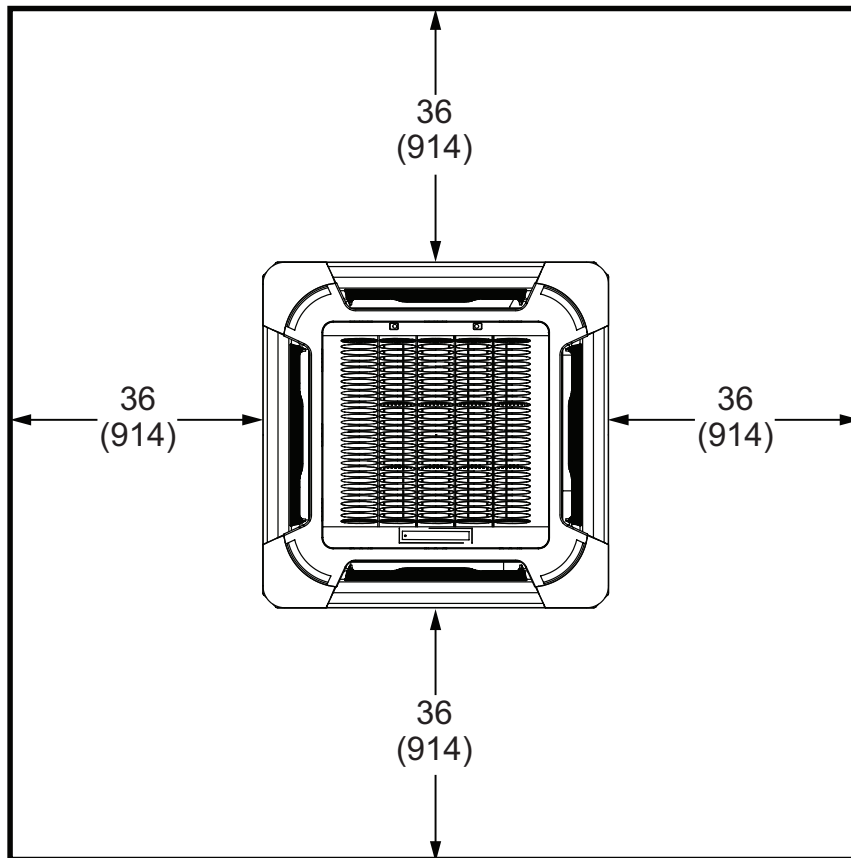
¹ Minimum rear clearance can be 6 inches (152 mm) when mounted on brackets and with no obstructions on the other three sides.

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

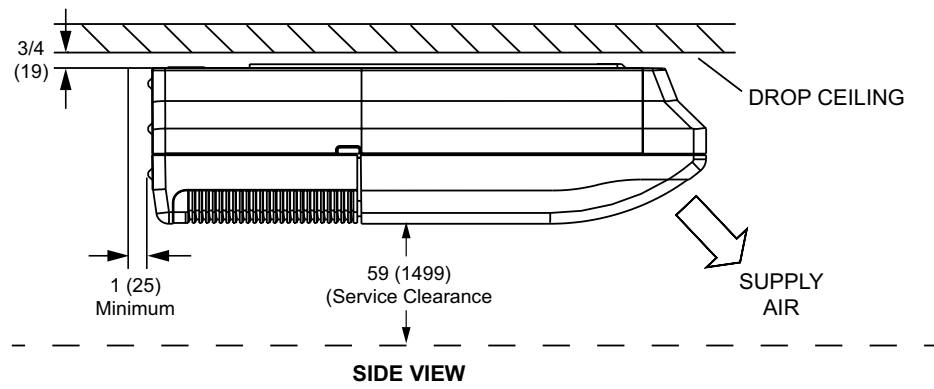
INSTALLATION CLEARANCES - CASSETTE INDOOR UNITS - INCHES (MM)



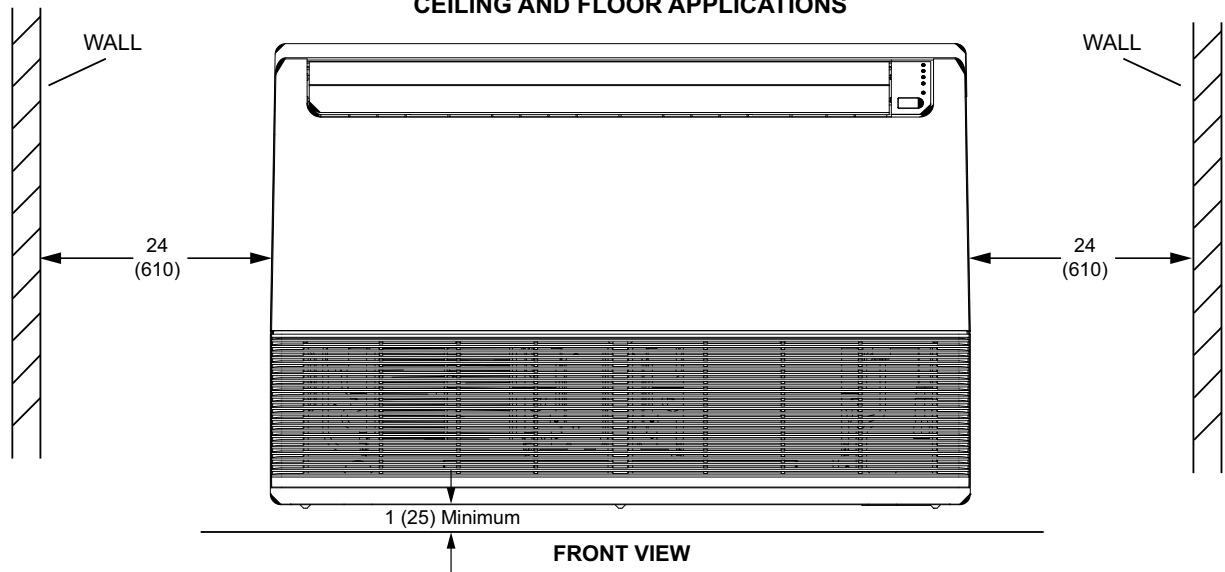
Minimum Vertical Clearances:
Minimum Clearance from Structural Ceiling to Drop Ceiling - 10-1/4 inches (260 mm)
Minimum Clearance to Floor - 98-1/2 inches (2500 mm)

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

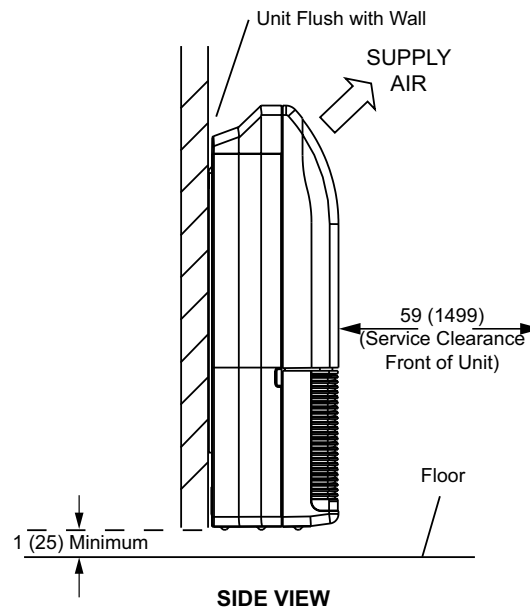
CEILING APPLICATIONS



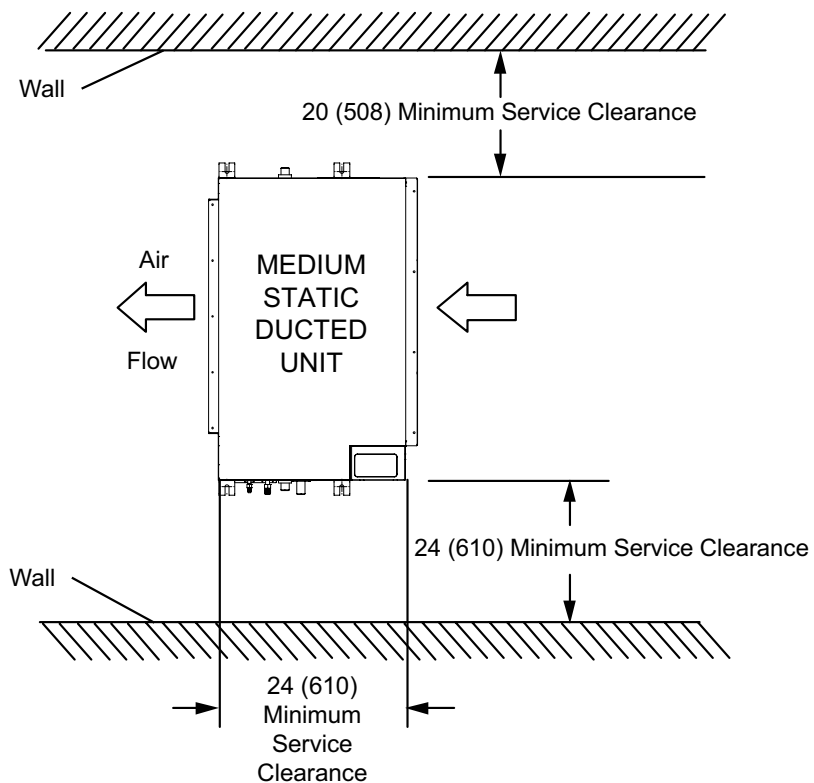
CEILING AND FLOOR APPLICATIONS



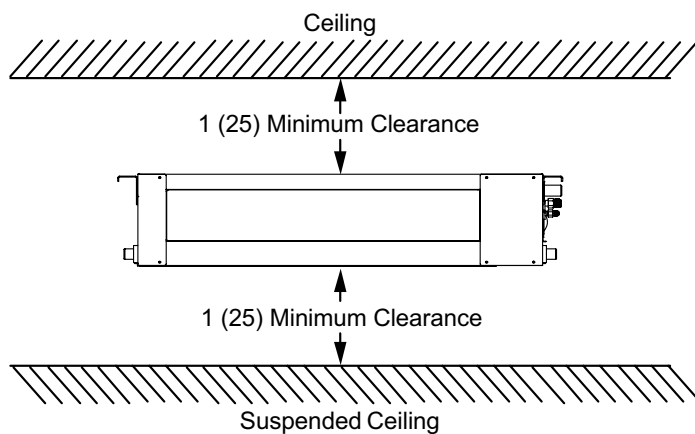
FLOOR APPLICATIONS



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

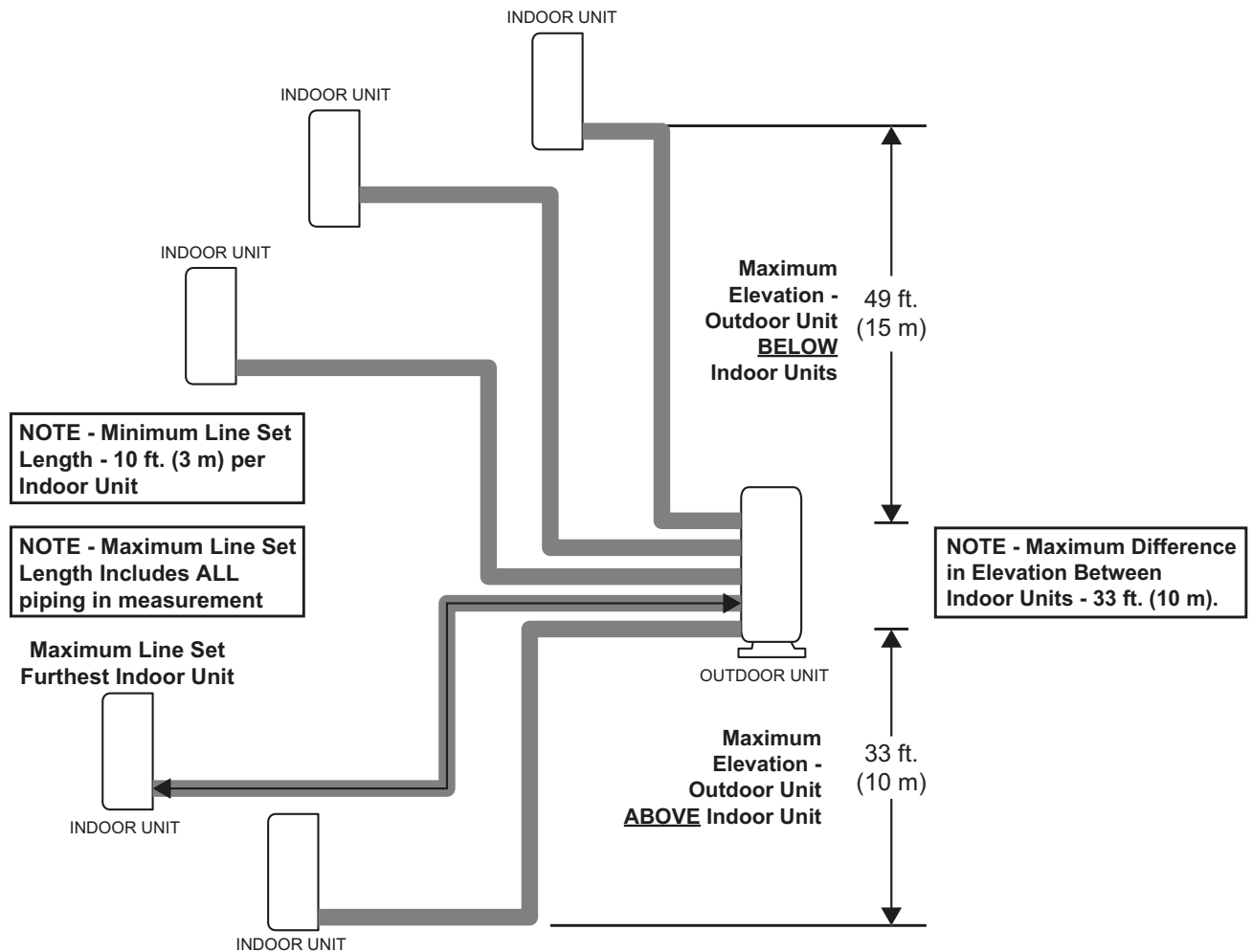


TOP VIEW



FRONT VIEW

LINE SET AND ELEVATION GUIDELINES



Outdoor Unit Model No.	MPA018S4M	MPA030S4M	MPA036S4M	MPA048S4M
Maximum Number of Indoor Units/Zones	Two	Three	Four	Five
Indoor Unit Connections	(2) 1/4 liq. / 3/8 gas	(3) 1/4 liq. / 3/8 gas	(4) 1/4 liq. (3) 3/8 gas (1) 1/2 gas	(5) 1/4 liq. (3) 3/8 gas (2) 1/2 gas
Maximum Pipe Length for all Rooms	98 ft. (30 m)	148 ft. (45 m)	197 ft. (60 m)	246 (75 m)
Maximum Line Set Length - Furthest Indoor Unit	66 ft. (20 m)	82 ft. (25 m)	98 ft. (30 m)	98 ft. (30 m)

NOTE - Refer to "Connections And Line Set Usage" tables starting on page 22 for correct line set usage and correct refrigerant line adaptors furnished with outdoor units.

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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