MINI-SPLIT SYSTEMS



M22A/M33C

Mini-Split

Cassette Indoor Units - R-410A - 60 Hz

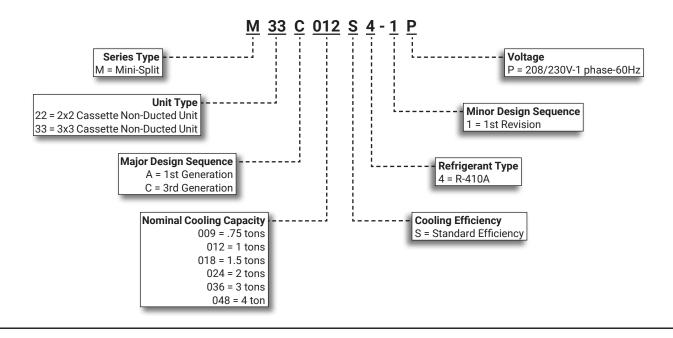
RESIDENTIAL / COMMERCIAL PRODUCT SPECIFICATIONS

Bulletin No. 211043 April 2024 Supersedes all previous versions



Nominal Capacity - 0.75 to 4 Tons

MODEL NUMBER IDENTIFICATION



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APPROVALS AND WARRANTY

APPROVALS

· Indoor units and components UL and CEC bonded for grounding to meet safety standards for servicing

WARRANTY

- · All covered components
 - · Limited five years in all applications
- · Accessories and controls Limited one year

NOTE - Refer to Lennox Basic Limited Warranty at www.Lennox.com for additional details.

FEATURES

- 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 controller (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 27-1/2 in. maximum lift
- Compact Design Allows accessible wiring and spacesaving installation with reduced width and depth
- 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

- Turbo Fan With Backward Curved Blades Reduces sound levels and air resistance
- · Air Filter Cleanable air filter is furnished as standard
- Wireless Remote Controller Furnished as standard, see Page 5 for M22A and Page 2 for M33C
- **NOTE** The cassette panel must be ordered separately. See Specifications table for ordering information.

OPTIONAL ACCESSORIES

Condensate Pumps

- Quietly and efficiently removes condensate
- See Optional Accessories Table for available pumps

A/C Easy Tee® Condensate Cleanout

- · Condensate drain service port
- Flexible and easy to use with nitrogen, water or shop vac
- Screw cap on top allows easy access to condensate drain line

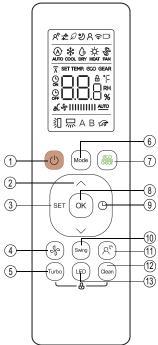
Wired Remote Controllers

- Programmable controller available, see Page 10
- Non-programmable controller available, see Page 8

WIRELESS REMOTE CONTROLLER (RG10B-CSWHB)

(FURNISHED WITH M33C CASSETTE INDOOR UNITS)

- · Complete remote control of system
- Maximum operating range is 25 ft.
- Operates on two AAA 1.5V batteries (furnished)
- · Wireless remote controller 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 UP/DOWN Buttons AV
 - Increase or decrease the indoor temperature in one degree increments (maximum 86°F, minimum 60°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.

3 SET Button

- Scrolls through unit operations in this order:
 - 1. Sleep එ
 - 2. Follow Me A

NOTE - The selected symbol will flash on the display area. Press the OK button to confirm.

4 FAN Button

- Cycles fan speeds in the following order:
 - AUTO \rightarrow 20% \rightarrow 40% \rightarrow 60% \rightarrow 80% \rightarrow 100%

NOTE - Holding Fan button down for 2 seconds will activate **Silence** feature.

5 TURBO Button

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

6 MODE Button

- Select system operation modes
- · Press button to cycle through each setting:
- AUTO \rightarrow COOL \rightarrow DRY \rightarrow HEAT \rightarrow FAN

7 ECO/GEAR Button

• Controls temperature/energy efficiency of the unit

NOTE - Only available in cooling mode.

ECO Operation

- Sets unit to 75°F unit operation if setpoint is lower
- Sets fan to Auto operation if setpoint is over 75°F

NOTE - If setpoint is manually changed to less than 75°F, ECO operation is canceled.

GEAR Operation

• Reduces electrical consumption to 75% or 50%

8 OK Buttor

Confirms selected function

9 TIMER Button

- · Initiates an auto-on or auto-off time sequence
- Press TIMER button to initiate the ON time sequence
- Press Temp. up or down button for multiple times to set the desired time to turn on the unit
- Press TIMER button to initiate the OFF time sequence.

NOTE - Each press of the button increases or decreases the time (depending on function) in 30 minute increments up to 10 hours.

Above 10 hours each press of the button will increase or decrease the auto-timed setting by 60 minutes up to 24 hours.

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

11) SWING Button

Used to stop or start louver auto swing feature

BREEZE AWAY Button

Prevents unit from blowing air directly on a person

NOTE - Only available in COOL, FAN or DRY modes.

12 CLEAN Button

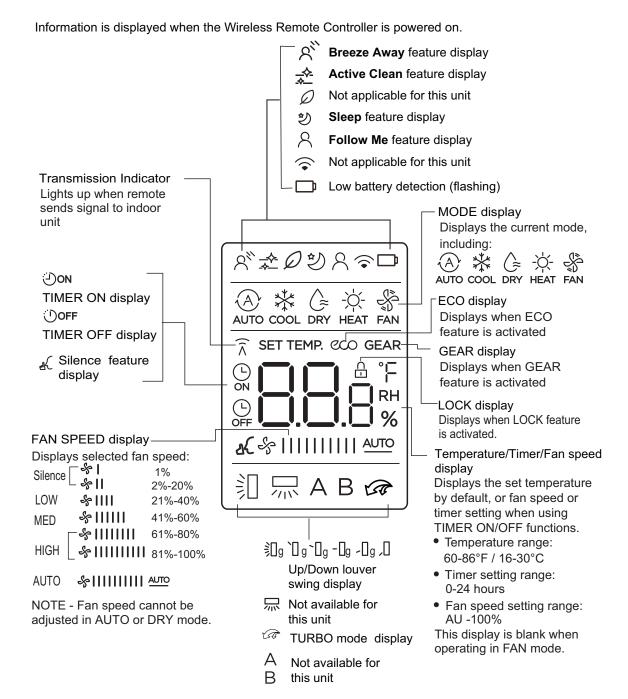
• Start/stop the Active Clean function (see description on Page 4)

13 LED Button

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

NOTE - Press and hold the button for 5 seconds to display the actual room temperature. Press more than 5 seconds to revert back to display set temperature.

WIRELESS REMOTE CONTROLLER INDICATORS (RG10B-CSWHB)



Note:

All icons are shown for display purposes only. During actual unit operation, only active icons are displayed.

M22A/M33C Mini-Split Cassette Indoor Units / Page 4

WIRELESS REMOTE CONTROLLER OPERATION (RG10B-CSWHB)

Auto Operation

- 1. Press the MODE button to select Auto.
- Press the UP/DOWN button to set the desired temperature.
- 3. Press the **ON/OFF** button to start the system.

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 system.

Dehumidifying (DRY) Operation

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

NOTE - Fan speed selection is disabled.

Timer ON/OFF Operation

- 1. Press the **TIMER** button. The remote controller shows TIMER ON or TIMER OFF icon
- 2. Press the **TIMER** button again to set desired time. Each time the button is pressed the time increases by 30 minutes between 0 and 10 hours and then 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 controller transmits the signal to the unit. After approximately 2 seconds the set temperature will re-appear on the LCD display window.

Silence Operation

1. Press the **FAN** button for more than 2 seconds to activate or disable the Silence function

Lock Function

- 1. Press the TURBO and CLEAN buttons together two times in less than one second to lock the Controller to prevent tampering
- 2. Press the TURBO and CLEAN together buttons again for two seconds to unlock the Controller

Swing Function

1. Press the **Swing** button to activate up/down louver operation. Louvers oscillate up and down automatically. Press and hold the Swing button again to disable.

NOTE - Pressing the Swing button multiple times will set the louvers at five different fixed airflow angles.

SET BUTTON FUNCTIONS

Sleep

- 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 keeps the final operation mode after 8 total hours of operation
- **NOTE** To cancel, push the "MODE", "FAN SPEED" or "ON/OFF" buttons.

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

Follow Me

 Allows remote temperature sensing of the room at the remote controller location

CLEAN FUNCTION

Active Clean

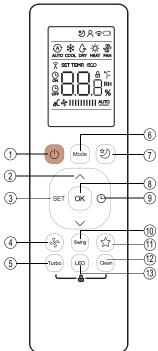
- Washes away dust, mold, and grease that may cause odors when it adheres to the indoor coil by automatically freezing and then rapidly thawing the coil
- Indoor unit displays "CL"
- After 20 to 45 minutes the unit will automatically turn cancel the operation

NOTE - Only available in COOL or DRY modes.

WIRELESS REMOTE CONTROLLER (RG10B-DCFC)

(FURNISHED WITH M22A CASSETTE)

- · Complete remote control of system
- · Maximum operating range is 25 ft.
- Operates on two AAA 1.5V batteries (furnished)
- · Wireless remote controller 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 UP/DOWN Buttons AV
 - 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.
- 3 SET Button
 - · Scrolls through unit operations in this order:
 - 1. Follow Me A
 - **NOTE** The selected symbol will flash on the display area. Press the OK button to confirm.
- 4 FAN Button
 - Cycles fan speeds in the following order:
 - AUTO \rightarrow LOW \rightarrow MED \rightarrow HIGH
 - **NOTE** Holding Fan button down for 2 seconds will activate **Silence** feature.

- 5 TURBO Button
 - Enables the unit to reach the preset temperature during cooling or heating operation in the shortest time
- 6 MODE Button
 - · Select system operation modes
 - · Press button to cycle through each setting:
 - AUTO → COOL → DRY → HEAT → FAN
- SLEEP Button

Sleep

- 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 keeps the final operation mode after 8 total hours of operation
- 8 OK Button
 - · Confirms selected function
- 9 TIMER Button
 - · Initiates an auto-on or auto-off time sequence
 - Press TIMER button to initiate the ON time sequence
 - Press Temp. up or down button for multiple times to set the desired time to turn on the unit
 - Press TIMER button to initiate the OFF time sequence.
 - **NOTE** Each press of the button increases or decreases the time (depending on function) in 30 minute increments up to 10 hours.

Above 10 hours each press of the button will increase or decrease the auto-timed setting by 60 minutes up to 24 hours.

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

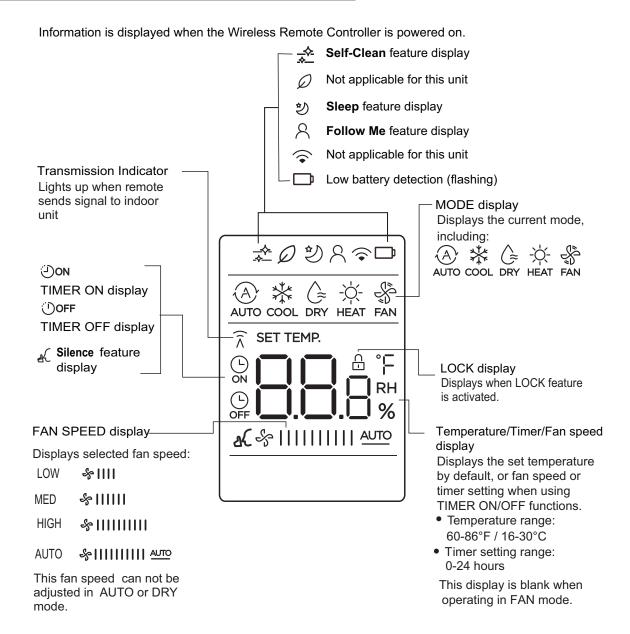
- 10 SWING Button
 - Used to stop or start louver auto swing feature
- SHORTCUT Button
 - Restore the current settings or resume the previous settings
- 12 CLEAN Button
 - Start/stop the Self-Clean function
 - Unit cleans itself automatically

NOTE - Only available in COOL or DRY modes.

NOTE - Not for MCFA036-048 and MMDB036-048 models.

- 13 LED Button
 - Turns the LCD display backlight on the indoor unit on or off
 - **NOTE** Press and hold the button for 5 seconds to display the actual room temperature. Press more than 5 seconds to revert back to display set temperature.

WIRELESS REMOTE CONTROLLER INDICATORS (RG10B-DCFC)



Note:

All icons are shown for display purposes only.

During actual unit operation, only active icons are displayed.

WIRELESS REMOTE CONTROLLER OPERATION (RG10B-DCFC)

Auto Operation

- 1. Press the MODE button to select Auto.
- 2. Press the **UP/DOWN** button to set the desired temperature.
- 3. Press the **ON/OFF** button to start the system.

Cooling / Heating / Fan Operation

- 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 system.

Dehumidifying (DRY) 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 system.

NOTE - Fan speed selection is disabled.

Timer ON/OFF Operation

- 1. Press the **TIMER** button. The remote controller shows TIMER ON or TIMER OFF icon
- 2. Press the **TIMER** button again to set desired time. Each time the button is pressed the time increases by 30 minutes between 0 and 10 hours and then by 60 minutes between 10 and 24 hours.
- After setting the TIMER ON or TIMER OFF there
 will be a one second delay before the remote
 controller transmits the signal to the unit. After
 approximately 2 seconds the set temperature will
 re-appear on the LCD display window.

Silence Operation

1. Press the **FAN** button for more than 2 seconds to activate or disable the Silence function

Lock Function

- 1. Press the TURBO and HUMIDITY buttons together two times in less than one second to lock the Controller to prevent tampering
- 2. Press the TURBO and HUMIDITY together buttons again for two seconds to unlock the Controller

Swing Function

1. Press the **Swing** button to activate parallel louver operation. Louvers oscillate up and down automatically. Press and hold the Swing button again to disable.

NOTE - Pressing the Swing button multiple times will set the louvers at five different fixed airflow angles.

2. Press **Swing** button for 2 seconds to activate upright louver operation. Louvers swing left and right automatically.

SET BUTTON FUNCTIONS

Follow Me

 Allows remote temperature sensing of the room at the remote controller location

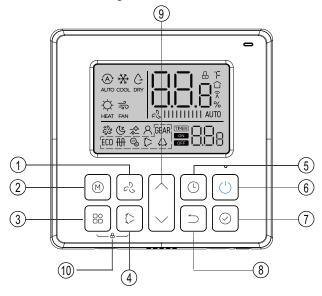
REMOTE CONTROLLERS - OPTIONAL

WIRED REMOTE CONTROLLER (MOSTAT120L-1)



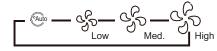
FEATURES

- Built-In 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
- 3-1/2 in. back-lit LCD display screen
- Wiring Controller uses 5-wire shielded 20 ft. cable (furnished) for easy low voltage connection to the indoor unit
- · Maximum cable length is 59 ft.



1 FAN SPEED Button

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



2 MODE Button

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

3 FUNCTION Button

- Scrolls through unit operations in this order:
- 1. Turbo కోస్ట్
- 2. Sleep 🗷
- 3. Active Clean 🕏
- 4. Follow Me A

4 SWING Button

- Used to stop or start louver auto swing feature (certain models)
- Louvers oscillate up and down automatically. Press and hold the Swing button again to disable.
- Pressing the Swing button multiple times will set the louvers at five different fixed airflow angles.
- Press and hold Swing button for 2 seconds to activate left/right louver operation. Louvers swing left and right automatically.

TIMER Button

- TIMER ON (initiates an auto-on time sequence)
- 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

6 POWER Button

· Turns system on and off

CONFIRM Button

· Confirms selected function

NOTE - Press and hold and **Arrow Up** Button and the **Arrow Down** button together for 3 seconds to alternate the temperature display between the °F and °C scale.

8 BACK Button

· Returns to the previous step

9 UP/DOWN Buttons

 Increase or decrease the indoor temperature in two degree increments (maximum 86°F, minimum 60°F).

NOTE - Temperature cannot be adjusted in FAN mode.

10 LOCK

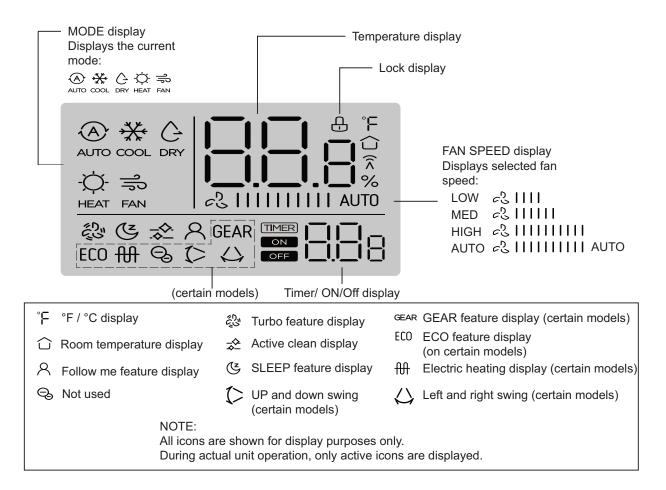
 Press the Function and Swing buttons simultaneously to lock or unlock the Controller to prevent tampering with settings

OPTIONAL ACCESSORIES

Extension Cable for Wired Remote Controller

- 20 ft. cable for easy low voltage connection to the indoor unit
- Extends cable to maximum 65 ft. length

WIRED REMOTE CONTROLLER INDICATORS (MOSTAT120L-1)



REMOTE CONTROLLERS - OPTIONAL

WIRED PROGRAMMABLE CONTROLLER (MOSTAT120N-1)



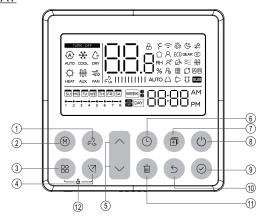
FEATURES

- Wired programmable local controller for mini-split indoor units with convenient timed schedules for daily operation
- Weekly timers (2), all days of the week timer, up to 8 scheduled 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
- 3-1/2 in. back-lit LCD display screen
- Controller uses 4-wire shielded 20 ft. cable (furnished) for easy low voltage connection to the indoor unit
- Adaptor cables are furnished for various indoor unit connections
- **NOTE** Cable for longer lengths must be ordered separately.

NOTE - Maximum cable length is 164 ft..

- · Hardware for mounting furnished
- Mounts to standard electrical junction box (not furnished)
- Lithium battery furnished: CR2032
- Power Supply: 12 VDC
- Dimensions (H x W x D): 4-3/4 x 4-3/4 x 7/8 in.
- Audible tone when a button is pressed (can be disabled)
- Lock function disables buttons to prevents tampering

DISPLAY



BUTTONS AND FUNCTIONS

1 FAN SPEED Button

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

2 MODE Button

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

3 FUNCTION Button

- · Scrolls through unit operations in this order:
 - 1. Turbo కోస్ట్
 - 2. Sleep 🗷
 - 3. Follow Me A

4 SWING Button

- Used to stop or start louver auto swing feature (certain models)
- Louvers oscillate up and down automatically. Press and hold the Swing button again to disable.
- Pressing the Swing button multiple times will set the louvers at five different fixed airflow angles.
- Press and hold Swing button for 2 seconds to activate left/right louver operation. Louvers swing left and right automatically.

UP/DOWN Buttons

• Increase or decrease the indoor temperature in one degree increments (maximum 86°F, minimum 60°F).

NOTE - Temperature cannot be adjusted in FAN mode.

6 TIMER Button

Sets unit for daily or weekly on/off operation

7 COPY Button

· Copy schedules from one day to another

8 POWER Button

Turn system on and off

9 CONFIRM Button

· Confirms each step when managing schedules

NOTE - Press and hold and **Confirm** Button and the **Arrow Down** button together for 3 seconds to alternate the temperature display between the °F and °C scale.

10 BACK Button

Returns to the previous step

11 DAY OFF/DELAY BUTTON

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

12 LOCK

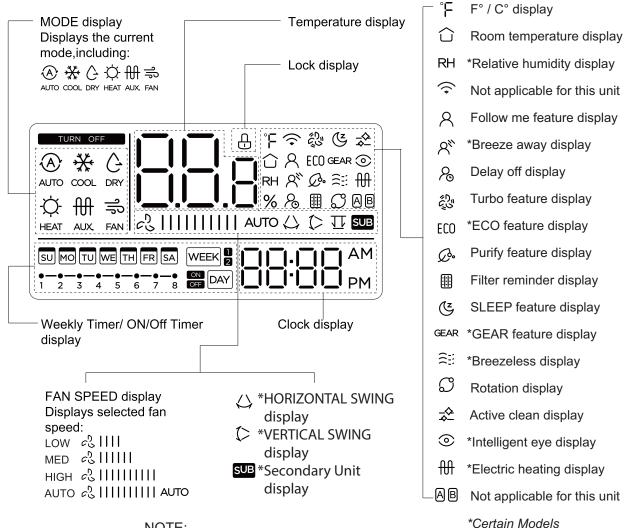
 Press the Function and Swing buttons simultaneously to lock the Controller to prevent tampering with settings

OPTIONAL ACCESSORIES

Extension Cable for Wired Programmable Controller

- 20 ft. cable for easy low voltage connection to the indoor unit
- Extends cable to 40 ft. (12 m) length

WIRED PROGRAMMABLE REMOTE CONTROLLER INDICATORS (MOSTAT120N-1)



NOTE:

All icons are shown for display purposes only.

During actual unit operation, only active icons are displayed.

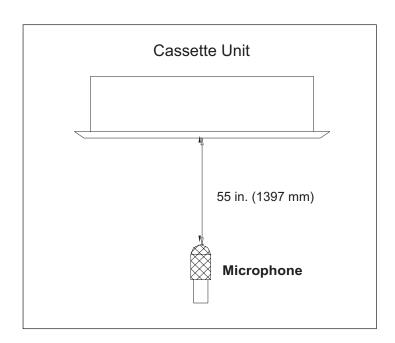
			I	
	Model No.	M22A009S4	M22A012S4	M22A018S4
	Nominal Tons	0.75	1	1.5
Power Supply - 60 hz - 1 phase		208/230V	208/230V	208/230V
	Rated load amps	0.9	1.0	1.5
	Output (W)	46	46	46
Room Temperature Range (°F)	Cooling	62 - 90	62 - 90	62 - 90
	Heating	32 - 86	32 - 86	32 - 86
Air Volume - cfm (High/Medium/Low)		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 / 38	36 / 41	36 / 42
REQUIRED COMPONENTS	- ORDERED SEPARA	TELY		
Cassette Panel		13X04	13X04	13X04
Net/Shipping weights - lbs.		6 / 10	6 / 10	6 / 10
SPECIFICATIONS	'			'
	Model No.	M33C024S4	M33C036S4	M33C048S4
	Nominal Tons	2	3	4
Power Supply - 60 hz - 1 phase		208/230V	208/230V	208/230V
	Rated load amps	1.0	1.0	1.5
	Output (W)	45	125	125
Room Temperature Range (°F)	Cooling	60 - 90	60 - 90	60 - 90
	Heating	32 - 86	32 - 86	32 - 86
Air Volume - cfm (High/Medium/Low)		706 / 635 / 547	947 / 853 / 753	1171 / 1059 / 935
Sound Data (dBA) - Low/Medium/High		43 / 46 / 49	52.5 / 50 / 46.5	55 / 53 / 50
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. Body		48 / 56	60 / 69	65 / 74
REQUIRED COMPONENTS	- ORDERED SEPARA	TELY		
	Cassette Panel			
Cassette Panel		22V17	22V17	22V17

OPTIONAL ACCESSORIES - ORDER SEPARATELY Size Catalog Description No. 012 018 024 009 036 **INDOOR UNIT** Mini-Split Pump - 4 US gallons per hour, 20 ft. lift - 230V ¹ Diversitech Y7949 Condensate ClearVue Mini™ - 7.9 US gallons per hour, 35 ft. lift - 120-240V Y5170 Pumps with Reservoir ¹ Blue Diamond® MicroBlue® - 1.3 US gallons per hour, 6 ft. lift - 110-230V 14T74 N/A Condensate MaxiBlue® - 3.7 US gallons per hour, 16.5 ft. lift - 208/230V 14T69 N/A N/A Pumps with MegaBlue® - 13.2 US gallons per hour, 23 ft. lift - 208/230V 14T71 N/A Reservoir 14T75 N/A MultiTank Kit Sensor Cable Extension - 16 ft. 14T76 Little Giant Mini-Split Pump Kit - 2.5 US gallons per hour, 3 ft. lift - 100-240V Y8794 Condensate (includes pump, reservoir, multi-size hose drain adaptor, Pump Kit with 7 ft. detachable power cord, pump enclosure/cover, Reservoir line set cover and mounting trim brackets) A/C Easy Tee® Condensate Cleanout Y7947 CONTROLS Wired Remote Controller M0STAT120L-1 24X02 Extension Cable for Wired Remote Controller - 20 ft. Y8008 Wired Programmable Controller M0STAT120N-1 24X03 Extension Cable for Wired Programmable Controller - 20 ft. M0CTRL64Q-1 Y8738

Y2067

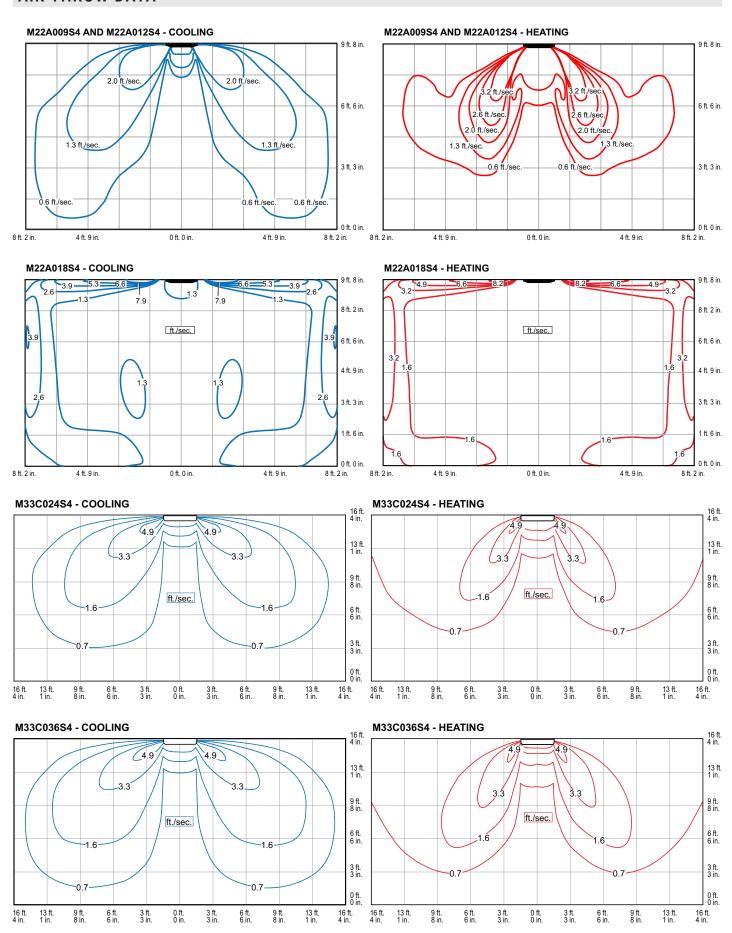
SOUND LEVELS - TEST CONDITIONS

Indoor/Outdoor Wiring Cable - 14 Gauge, 4 conductor wire, THHN, 250 ft.

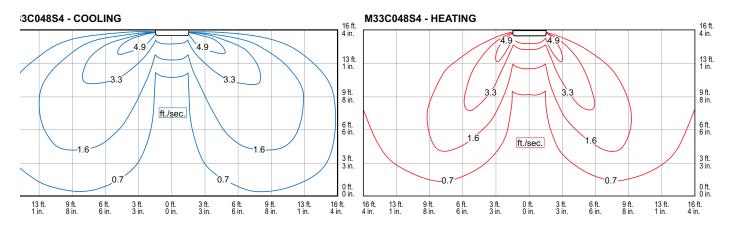


¹ Y7949 and 14T74 condensate pumps can be installed inside the indoor units. All other pumps must be installed external to the indoor unit.

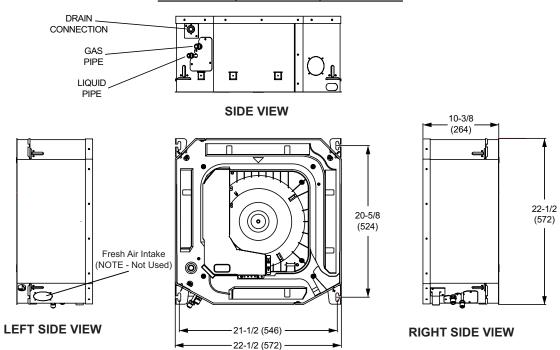
AIR THROW DATA



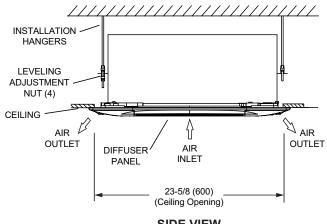
AIR THROW DATA



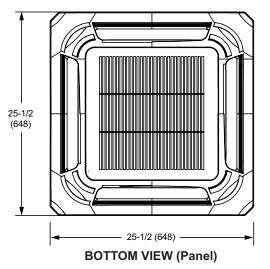
M22A009S4, M22A012S4, M22A018S4



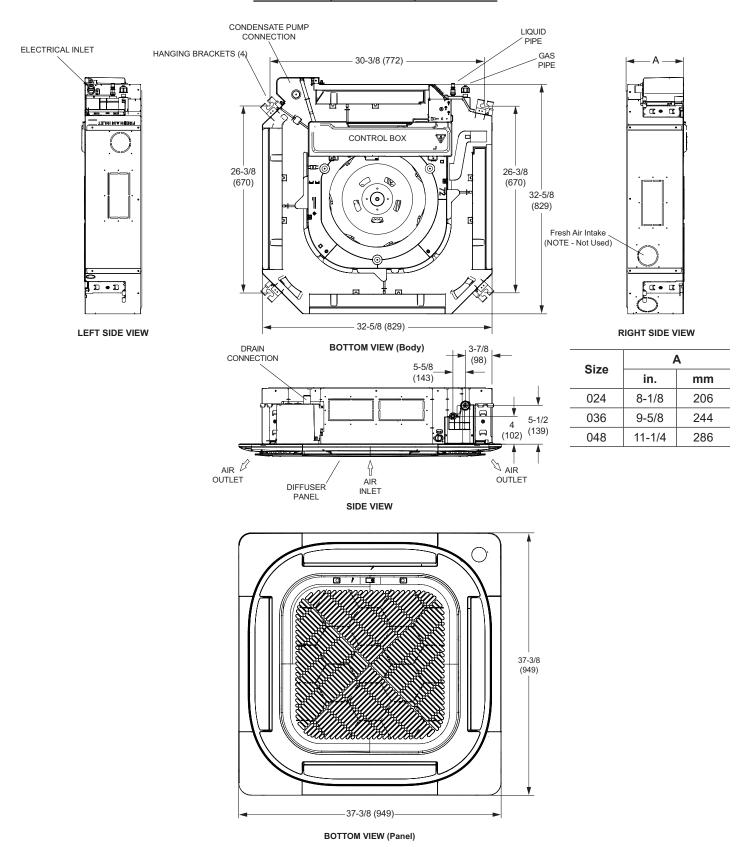
BOTTOM VIEW (Body)

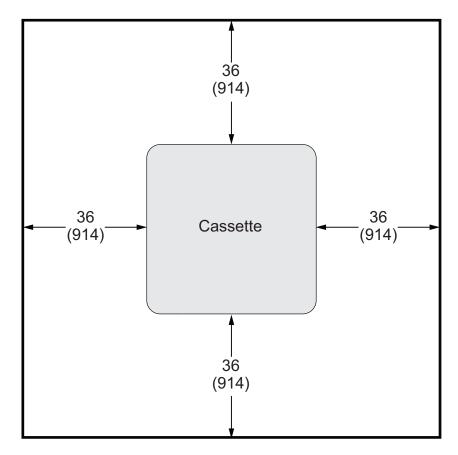


SIDE VIEW



M33C024S4, M33C036S4, M33C048S4





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)

REVISIONS				
Sections	Description of Change			
Approvals and Warranty	Updated Warranty statement.			









Visit us at www.Lennox.com
For the latest technical information, www.LennoxPros.com
Contact us at 1-800-9-LENNOX