MCFA/MCFB
Mini-Split
Ceiling/Floor Mount Non-Ducted Indoor Units - R-410A - 60 Hz
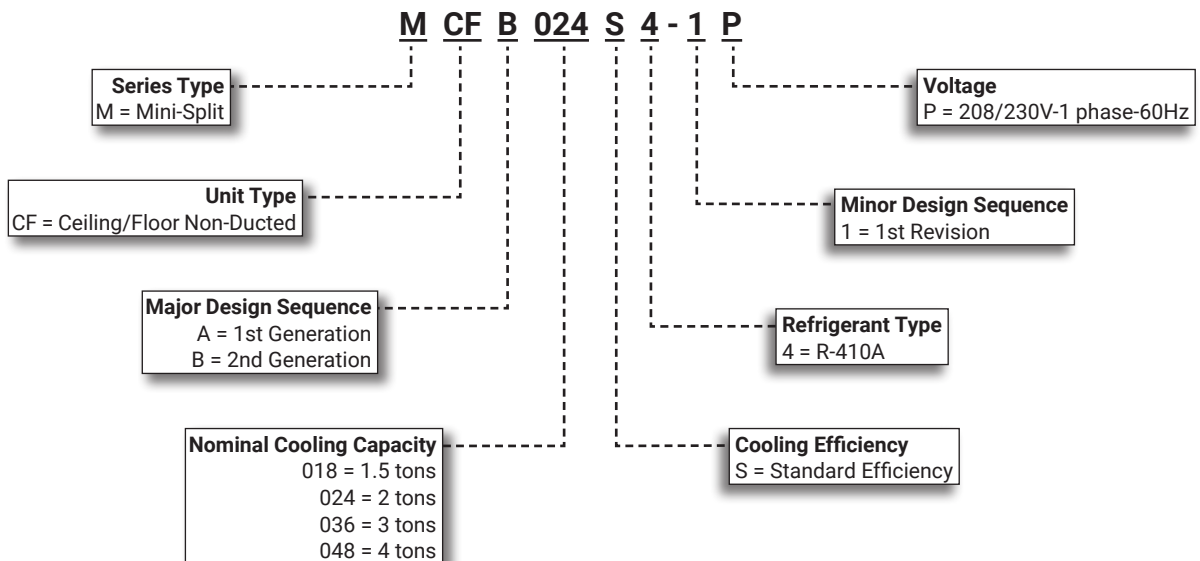
RESIDENTIAL / COMMERCIAL
PRODUCT SPECIFICATIONS

MCFA/MCFB Ceiling/Floor Mount Indoor Unit
with Furnished Wireless Remote Controller

Nominal Capacity - 1.5 to 4 Tons

MODEL NUMBER IDENTIFICATION

M CF B 024 S 4 - 1 P

Series Type
M = Mini-Split

Unit Type
CF = Ceiling/Floor Non-Ducted

Major Design Sequence
A = 1st Generation
B = 2nd Generation

Nominal Cooling Capacity
018 = 1.5 tons
024 = 2 tons
036 = 3 tons
048 = 4 tons

Voltage
P = 208/230V-1 phase-60Hz

Minor Design Sequence
1 = 1st Revision

Refrigerant Type
4 = R-410A

Cooling Efficiency
S = Standard Efficiency

CONTENTS

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, 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:

1. Horizontally against the ceiling

2. 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 controller (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

• **Wireless Remote Controller** - Furnished as standard, see Page 3

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 6

• Non-programmable controller available, see Page 8

WIRELESS REMOTE CONTROLLER (RG10B-DCFC)

- 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
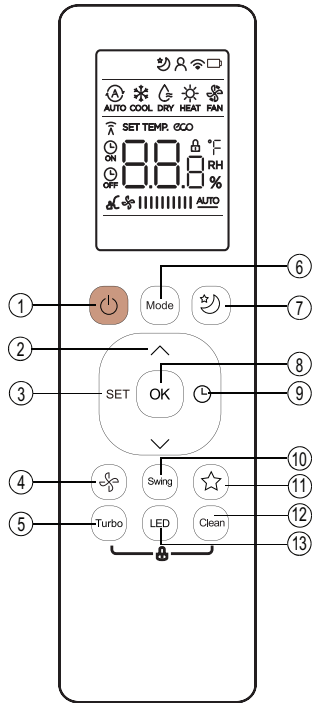
❶ ON/OFF Button
- Turns system on and off

❷ 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.

❸ 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.

❹ FAN Button
- Cycles fan speeds in the following order:
  - AUTO → LOW → MED → HIGH

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

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

❻ MODE Button
- Select system operation modes
- Press button to cycle through each setting:
  - AUTO → COOL → DRY → HEAT → FAN

❼ 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

❽ OK Button
- Confirms selected function

❾ 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.

❿ SWING Button
- Used to stop or start louver auto swing feature

⓫ SHORTCUT Button
- Restore the current settings or resume the previous settings

⓬ CLEAN Button
- Start/stop the Self-Clean function
- Unit cleans itself automatically

  NOTE - Only available in COOL or DRY modes.

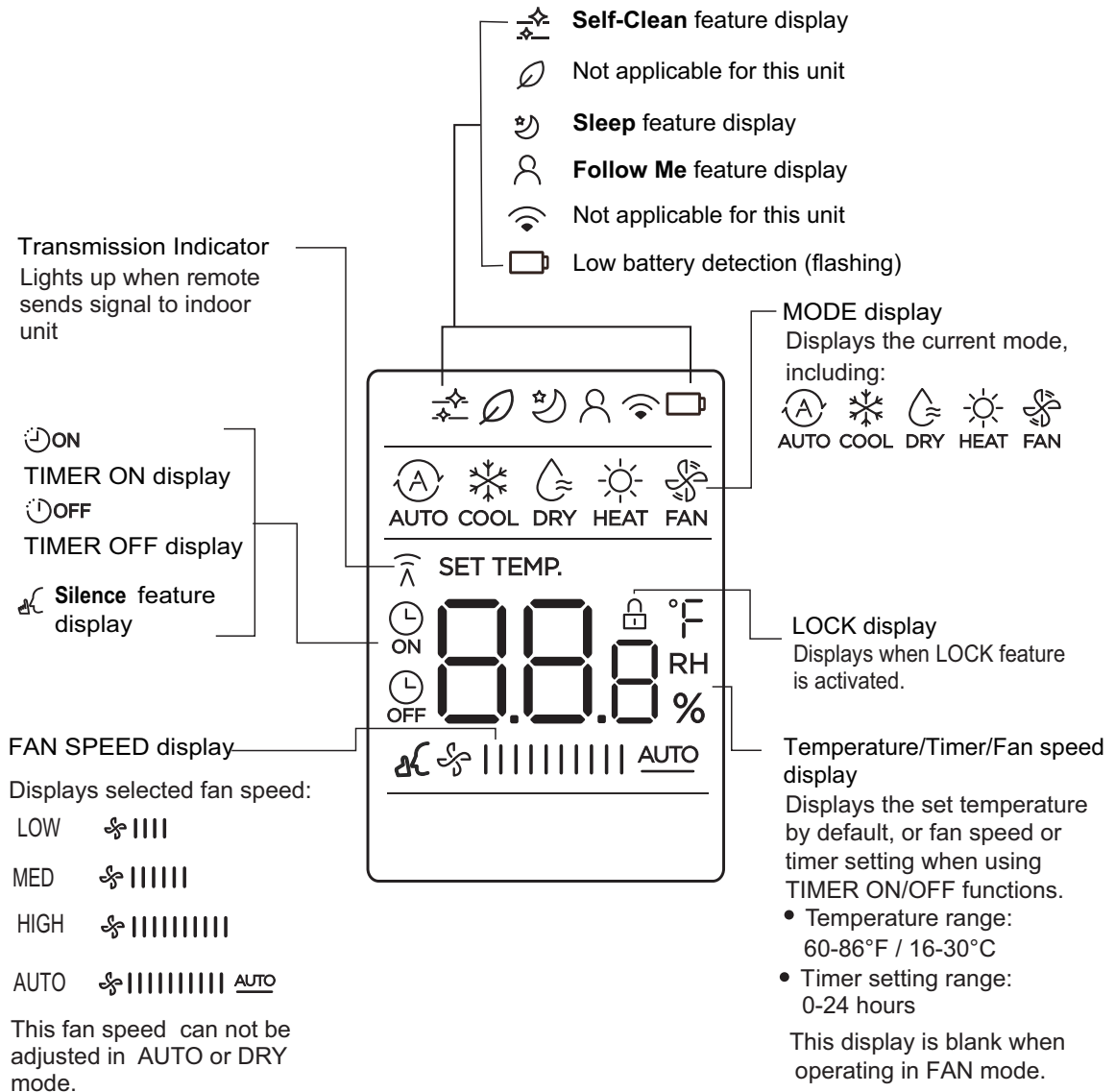 **NOTE** - Not for MCFA036-048 and MMDB036-048 models.

⓭ 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)

Information is displayed when the Wireless Remote Controller is powered on.

Self-Clean feature display

Not applicable for this unit

Sleep feature display

Follow Me feature display

Not applicable for this unit

Low battery detection (flashing)

Transmission Indicator
Lights up when remote sends signal to indoor unit

MODE display
Displays the current mode, including:

AUTO COOL DRY HEAT FAN

ON
TIMER ON display
OFF
TIMER OFF display

Silence feature display

AUTO COOL DRY HEAT FAN

SET TEMP.

LOCK display
Displays when LOCK feature is activated.

FAN SPEED display

Displays selected fan speed:

LOW

MED

HIGH

AUTO

This fan speed can not be adjusted in AUTO or DRY mode.

Temperature/Timer/Fan speed display
Displays the set temperature by default, or fan speed or timer setting when using TIMER ON/OFF functions.
- Temperature range:
  60-86°F / 16-30°C
- Timer setting range:
  0-24 hours

This display is blank when operating in FAN mode.

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
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.
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.
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 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

## WIRED REMOTE CONTROLLER (M0STAT120L-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
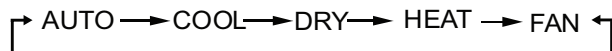- Maximum cable length is 59 ft.
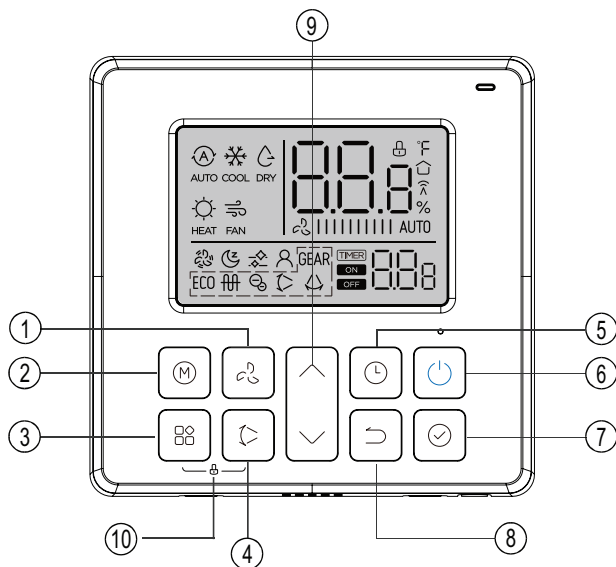
❶ FAN SPEED Button
- Selects fan speed. Each button press cycles through the following settings on display
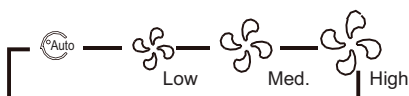
❷ MODE Button
- Select system operation modes. Push button to cycle through each setting

→ AUTO → COOL → DRY → HEAT → FAN ↵

❸ FUNCTION Button
- Scrolls through unit operations in this order:
  1. Turbo 🌀
  2. Sleep 🌙
  3. Active Clean 🌬
  4. Follow Me 🧍

❹ 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.

❺ 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

❻ POWER Button
- Turns system on and off

❼ 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.

❽ BACK Button
- Returns to the previous step

❾ 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.

❿ LOCK
- Press the **Function** and **Swing** buttons simultaneously to lock or unlock the Controller to prevent tampering with settings
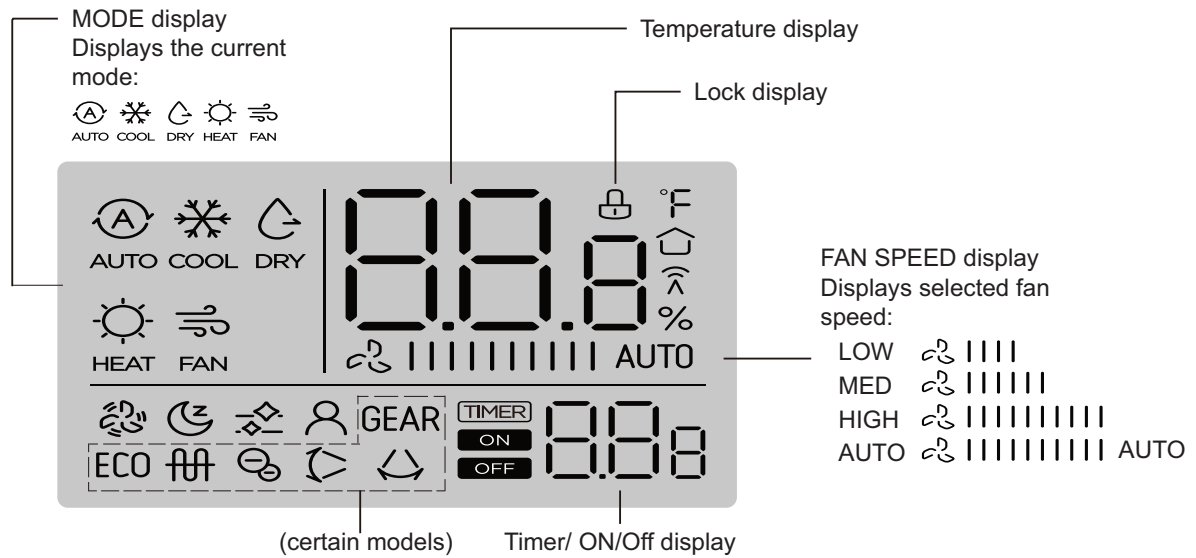
OPTIONAL ACCESSORIES

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 (M0STAT120L-1)

MODE display
Displays the current mode:

AUTO COOL DRY HEAT FAN

Temperature display

Lock display

AUTO   COOL   DRY

HEAT   FAN

GEAR

ECO

(certain models)   Timer/ ON/Off display

TIMER
ON
OFF

FAN SPEED display
Displays selected fan speed:

LOW | | | |
MED | | | | | |
HIGH | | | | | | | | |
AUTO | | | | | | | | | | AUTO

	℉ / °C display		Turbo feature display	GEAR	GEAR feature display (certain models)
⌂	Room temperature display		Active clean display	ECO	ECO feature display (on certain models)
𐰲	Follow me feature display		SLEEP feature display		Electric heating display (certain models)
	Not used		UP and down swing (certain models)		Left and right swing (certain models)

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

## WIRED PROGRAMMABLE CONTROLLER (M0STAT120N-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
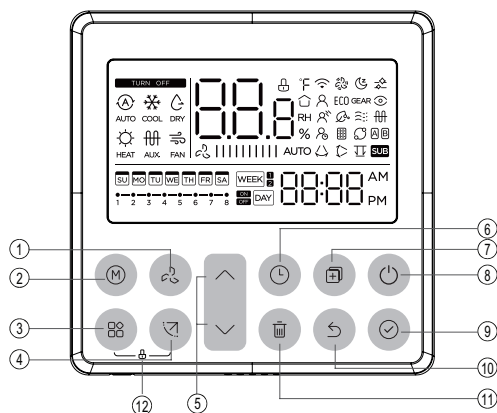
BUTTONS AND FUNCTIONS

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
  2. Sleep
  3. Follow Me

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.

5 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
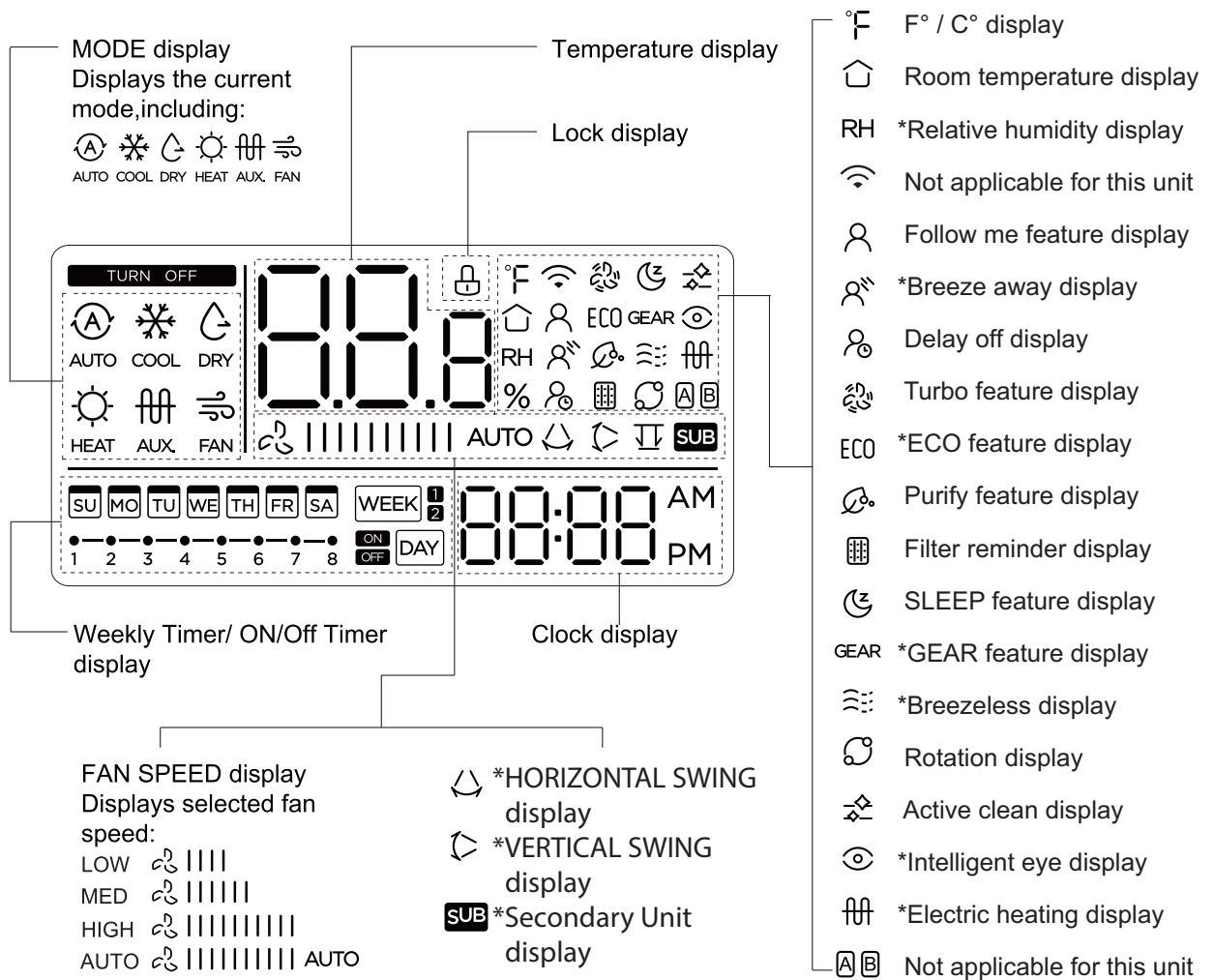
OPTIONAL ACCESSORIES

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 (M0STAT120N-1)

MODE display
Displays the current mode, including:

AUTO COOL DRY HEAT AUX. FAN

Temperature display

Lock display

°F / C° display

Room temperature display

RH *Relative humidity display

Not applicable for this unit

Follow me feature display

*Breeze away display

Delay off display

Turbo feature display

ECO *ECO feature display

Purify feature display

Filter reminder display

SLEEP feature display

GEAR *GEAR feature display

*Breezeless display

Rotation display

Active clean display

*Intelligent eye display

*Electric heating display

Not applicable for this unit

Weekly Timer/ ON/Off Timer display

Clock display

FAN SPEED display
Displays selected fan speed:
LOW
MED
HIGH
AUTO   AUTO

*HORIZONTAL SWING display
*VERTICAL SWING display
SUB *Secondary Unit display

*Certain Models

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

SPECIFICATIONS

Model No.	MCFB018S4	MCFA024S4	MCFA036S4	MCFA048S4
Nominal Tons	1.5	2	3	4
Power Supply - 60 hz - 1 phase	208/230V	208/230V	208/230V	208/230V
Rated load amps	1.65	2.2	1.5	1.8
Output (W)	90	90	115	(2) 90
Room Temperature Range (°F) Cooling	60 - 90	60 - 90	60 - 90	60 - 90
Heating	32 - 86	32 - 86	32 - 86	32 - 86
Air Volume - cfm (High/Medium/Low)	580/520/465	760/710/600	1035/915/640	1350/1120/1000
Sound Data (dBA) - Low/Medium/High	39/43/46	42/47/51	41/48/52	45/50/55
Piping Connections - Liquid/Gas - o.d. - flare - in.	1/4 / 1/2	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8
Drain connection o.d. - in.	1	1	1	1
Net/Shipping weights - lbs.	58 / 69	61 / 73	69 / 82	88 / 103

OPTIONAL ACCESSORIES - ORDER SEPARATELY

| Description		Catalog No.	018	024	036	048
INDOOR UNIT						
[1] Diversitech Condensate Pumps with Reservoir	Mini-Split Pump - 4 US gallons per hour, 20 ft. lift - 230V	**Y7949**	•	•	•	•
	ClearVue Mini™ - 7.9 US gallons per hour, 35 ft. lift - 120-240V	**Y5170**	•	•	•	•
[1] Blue Diamond® Condensate Pumps with Reservoir	MicroBlue® - 1.3 US gallons per hour, 6 ft. lift - 110-230V	**14T74**	•	N/A		
	MaxiBlue® - 3.7 US gallons per hour, 16.5 ft. lift - 208/230V	**14T69**	N/A	•	•	N/A
	MegaBlue® - 13.2 US gallons per hour, 23 ft. lift - 208/230V	**14T71**	N/A			•
	MultiTank Kit	**14T75**	N/A	•	•	•
	Sensor Cable Extension - 16 ft.	**14T76**	•	•	•	•
Little Giant Condensate Pump Kit with Reservoir	Mini-Split Pump Kit - 2.5 US gallons per hour, 3 ft. lift - 100-240V (includes pump, reservoir, multi-size hose drain adaptor, 7 ft. detachable power cord, pump enclosure/cover, line set cover and mounting trim brackets)	**Y8794**	•	•	•	•
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**	•	•	•	•
Indoor/Outdoor Wiring Cable - 14 Gauge, 4 conductor wire, THHN, 250 ft.		**Y2067**	•	•	•	•

[1] Y7949 and 14T74 condensate pumps can be installed inside the indoor units. All other pumps must be installed external to the indoor unit.
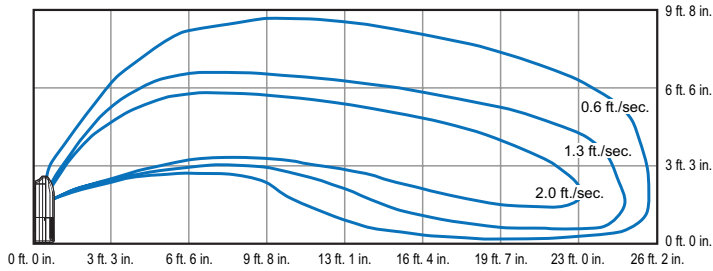
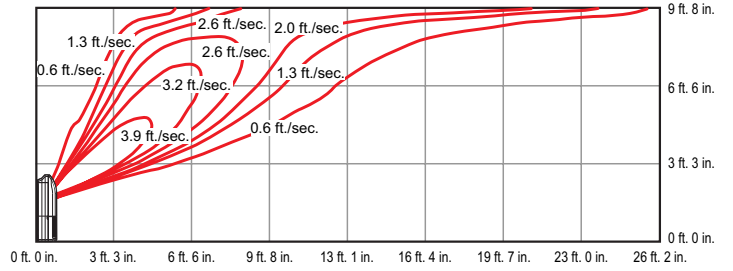## MCFB018S4 AND MCFA024S4 - COOLING - CEILING
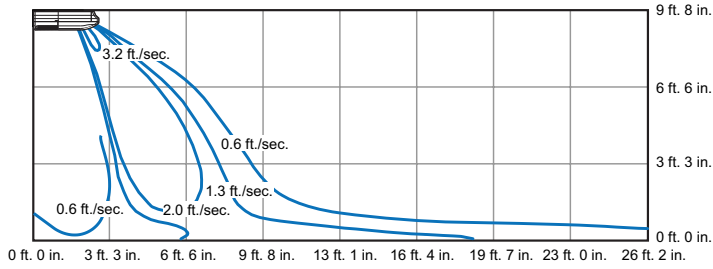
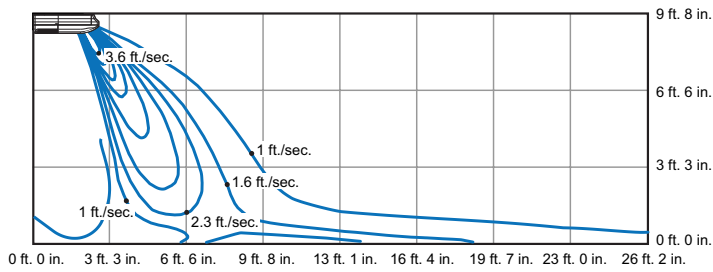## MCFB018S4 AND MCFA024S4 - HEATING - CEILING
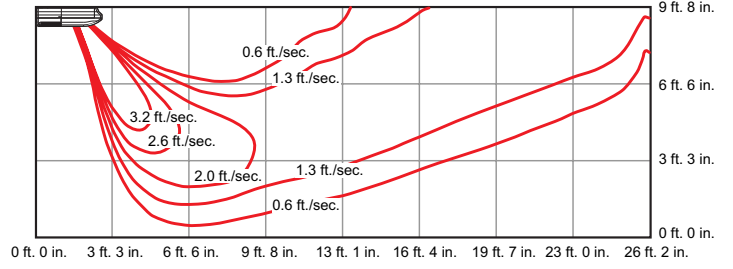
MCFB018S4 AND MCFA024S4 - COOLING - FLOOR
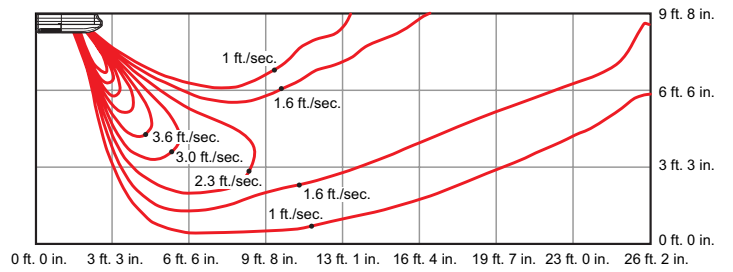

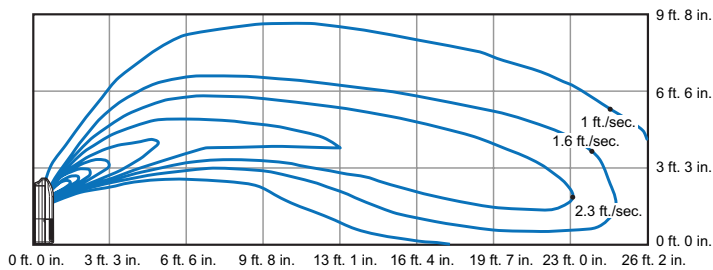## MCFB018S4 AND MCFA024S4 - HEATING - FLOOR
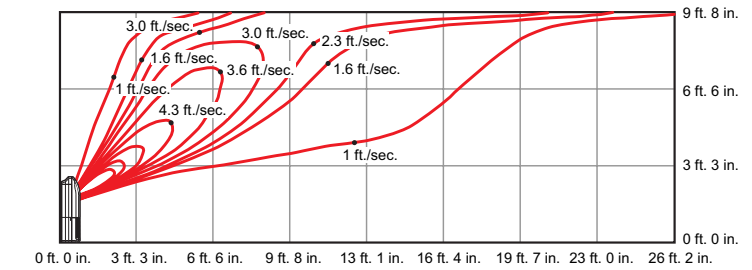

MCFA036S4 - CEILING - COOLING

MCFA036S4 - CEILING - HEATING

MCFA036S4 - FLOOR - COOLING

MCFA036S4 - FLOOR - HEATING

AIR THROW DATA

MCFA048S4 - CEILING - COOLING

MCFA048S4 - CEILING - COOLING

MCFA048S4 - FLOOR - COOLING

MCFA048S4 - FLOOR - HEATING
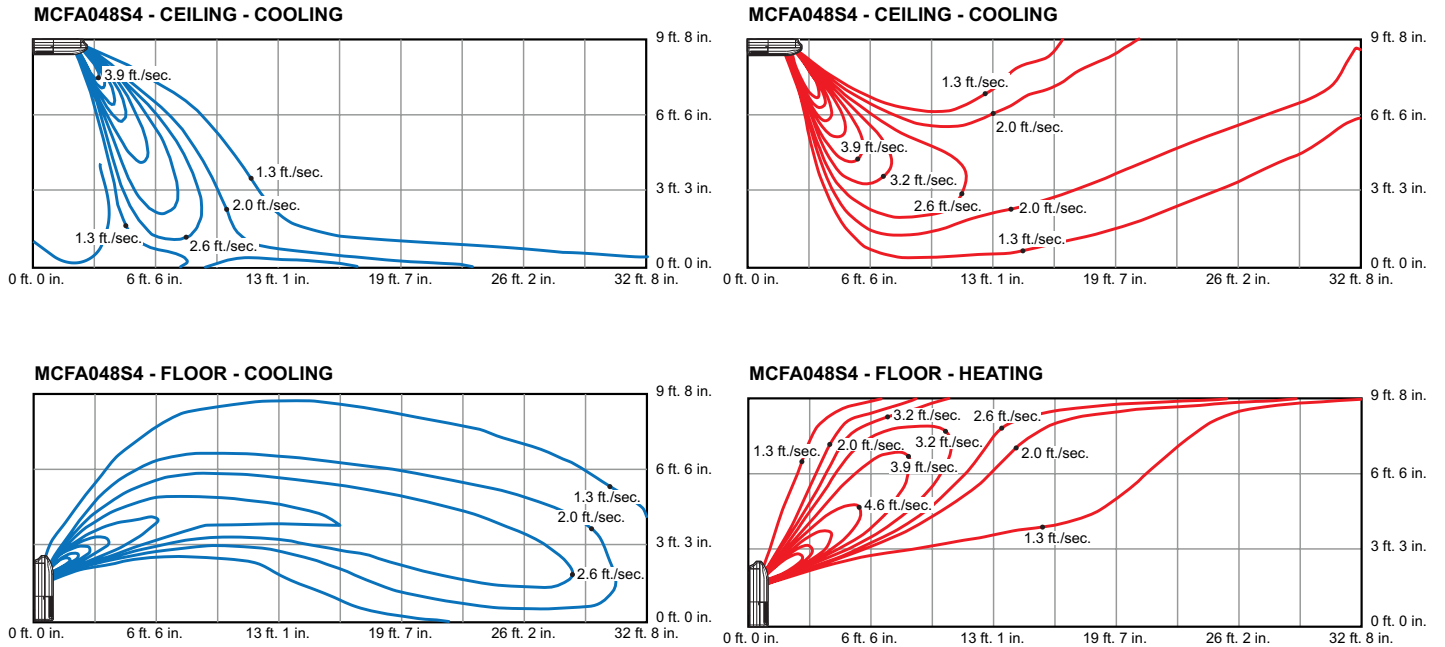
SOUND LEVELS - TEST CONDITIONS

Ceiling/Floor/Console Unit

Air outlet side

39-3/8 in. (1000 mm)

39-3/8 in. (1000 mm)

Microphone

39-3/8 in. (1000 mm)

Microphone

59 in. (1500 mm)

MCFB018S4, MCFA024S4, MCFA036S4, MCFA048S4

26-5/8
(676)

9-1/4
(235)

SIDE VIEW

FRONT VIEW

Refrigerant
Piping

2-3/8 (61)

Refrigerant
Piping Opening
3-1/2 x 7-1/4 (89 x 184)

3-1/2 (89)

B

A

8-3/4
(222)

BACK VIEW

2 (51)

Refrigerant
Piping

2-1/4 (57)

Condensate Drain
Outlets (2) each side

Refrigerant
Piping Opening
4-3/4 x 5-1/2 (121 x 140)

BOTTOM VIEW
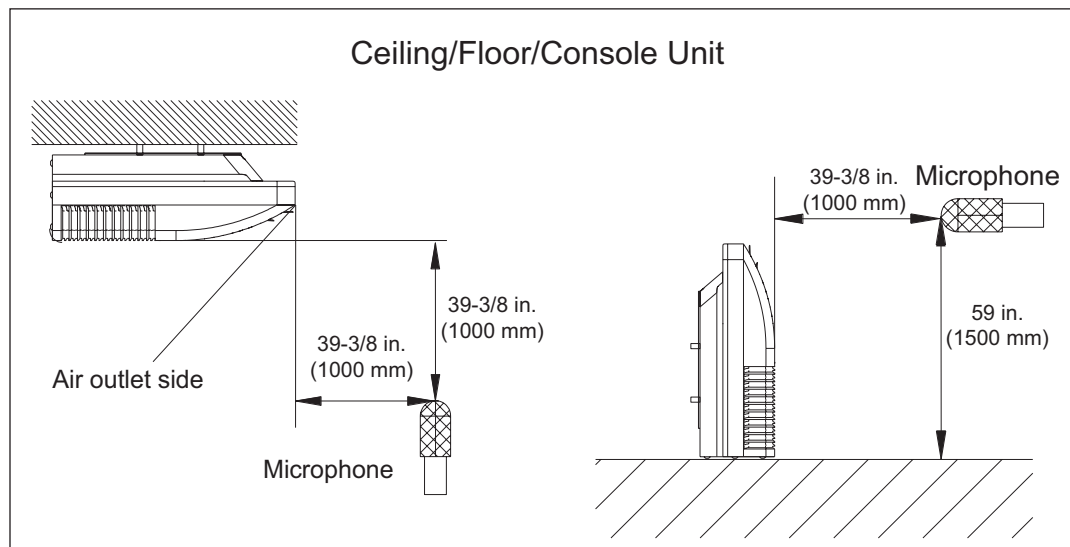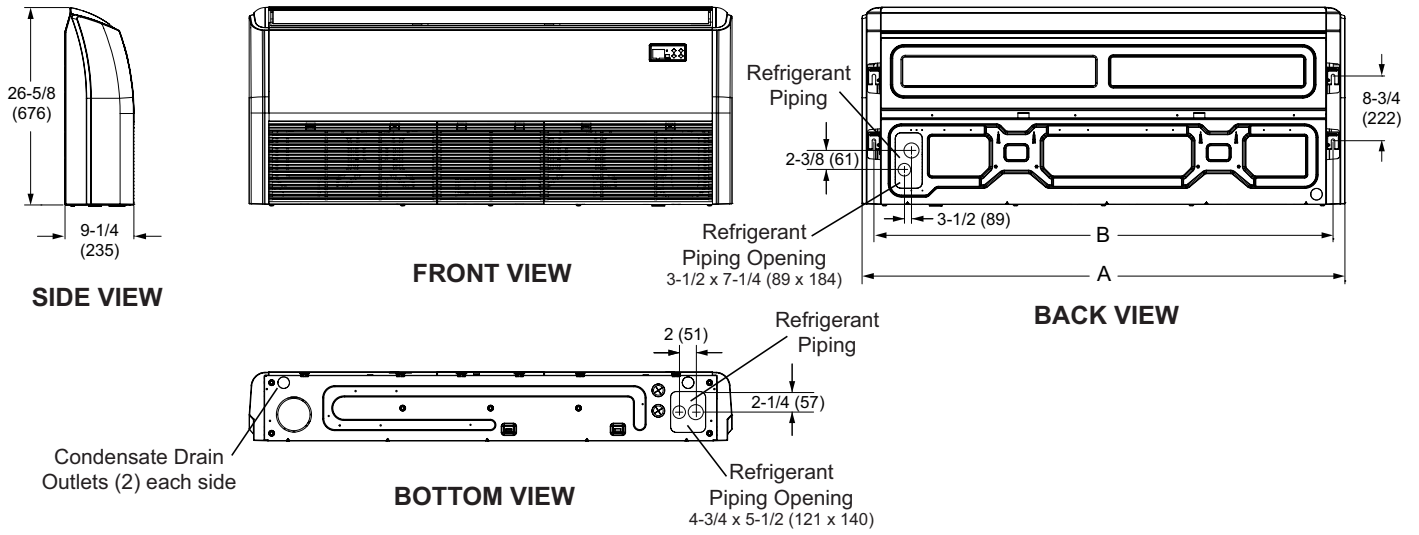
Model No.	A		B	
	in.	mm	in.	mm
018	42	1067	37	940
024	42-1/8	1070	39	991
036	50-5/8	1286	47-3/8	1203
048	65	1651	61-3/4	1568

INSTALLATION CLEARANCES

CEILING APPLICATIONS

3/4
(19)

DROP CEILING

Ceiling/Floor
Mount

SUPPLY
AIR

1 (25)
Minimum

59 (1499)
(Service Clearance

SIDE VIEW
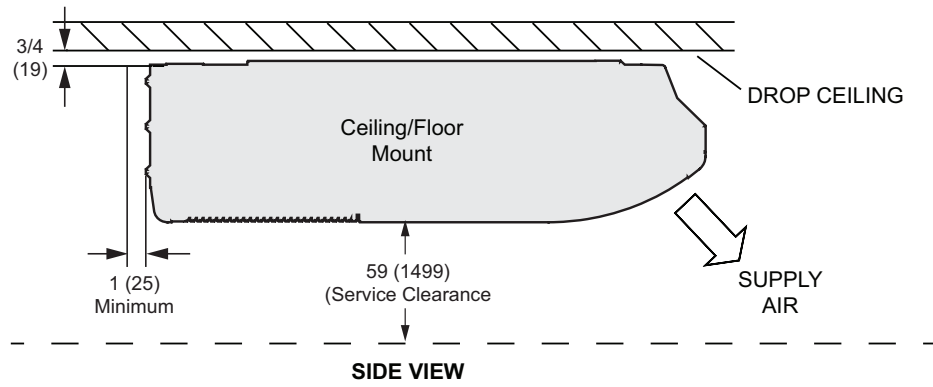
CEILING AND FLOOR APPLICATIONS

WALL

WALL

Ceiling/Floor
Mount

24
(610)

24
(610)

1 (25) Minimum

FRONT VIEW

FLOOR APPLICATIONS

Unit Flush with Wall

SUPPLY
AIR

Ceiling/
Floor
Mount

59 (1499)
(Service Clearance
Front of Unit)

Floor

1 (25) Minimum

SIDE VIEW

AHRI CERTIFIED™
www.ahridirectory.org
C
Unitary Small HP
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

HRAI
✓MEMBER COMPANY

ETL
LISTED
C ... US
CM
Intertek