MINI-SPLIT SYSTEMS

MHB
Mini-Split
Single Zone Ductless Heat Pump Systems - R-410A - 60 Hz

Bulletin No. 210963
July 2023
Supersedes June 2023

LENNOX®

RESIDENTIAL / COMMERCIAL
PRODUCT SPECIFICATIONS
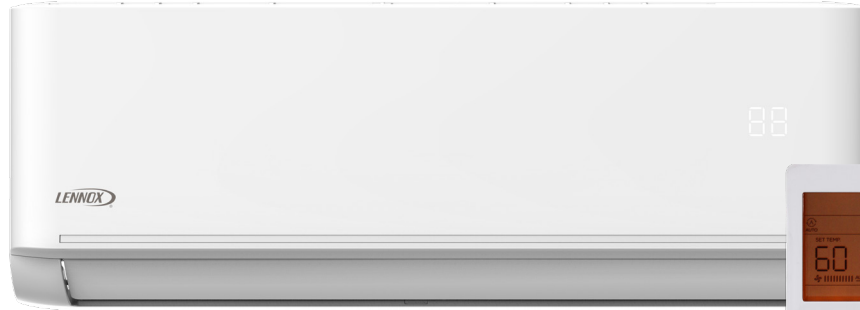
**MWHB Wall-Mounted
Ductless Indoor Unit**

**Wireless
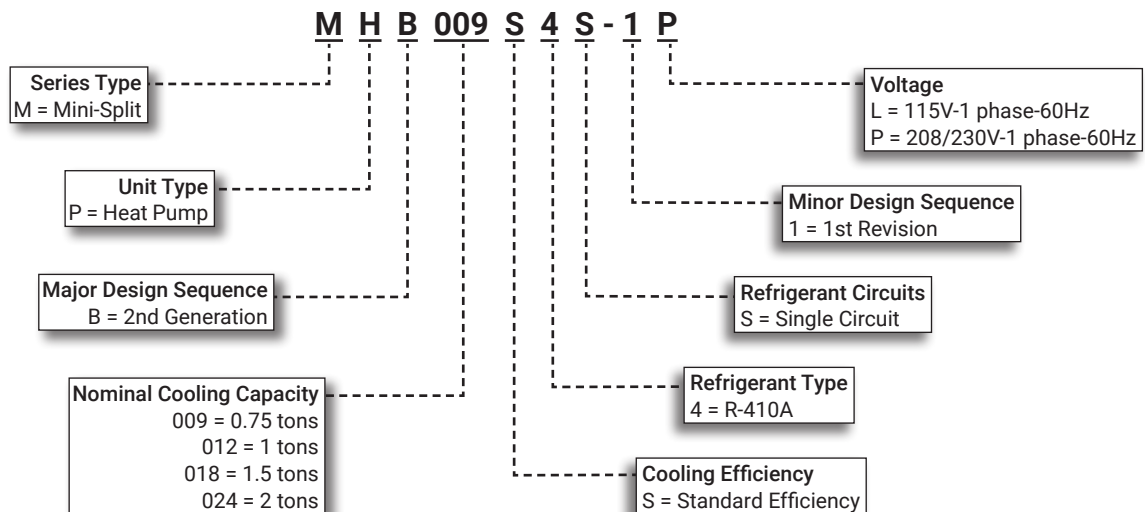Remote Control
(furnished with
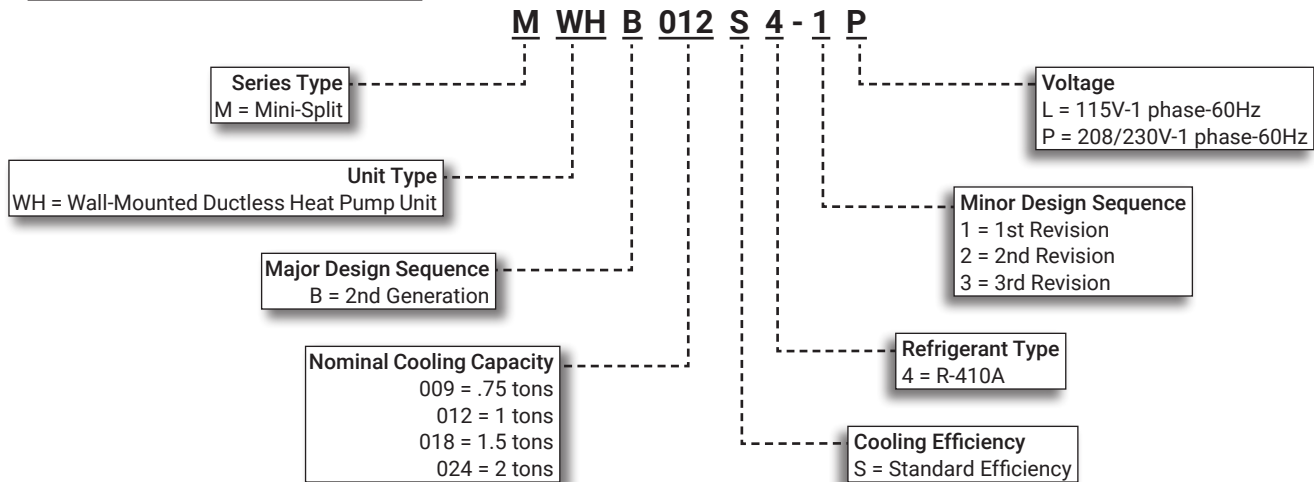Wall-Mount Model)**
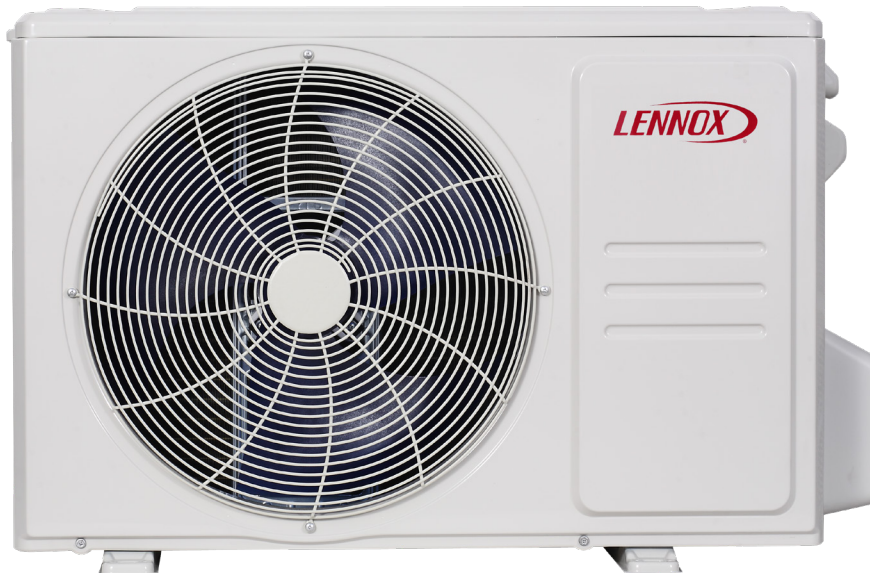
**MHB Outdoor Air
Heat Pump Unit**

SEER2 up to 21.7 / SEER up to 21.5
HSPF2 up to 9.4 / HSPF up to 10.8
0.75 to 2 Tons
Cooling Capacity - 9,000 to 24,000 Btuh
Heating Capacity - 10,000 to 24,000 Btuh

MODEL NUMBER IDENTIFICATION

OUTDOOR SINGLE ZONE AIR CONDITIONING UNITS

M H B 009 S 4 S - 1 P

Series Type
M = Mini-Split

Unit Type
P = Heat Pump

Major Design Sequence
B = 2nd Generation

Nominal Cooling Capacity
009 = 0.75 tons
012 = 1 tons
018 = 1.5 tons
024 = 2 tons

Voltage
L = 115V-1 phase-60Hz
P = 208/230V-1 phase-60Hz

Minor Design Sequence
1 = 1st Revision

Refrigerant Circuits
S = Single Circuit

Refrigerant Type
4 = R-410A

Cooling Efficiency
S = Standard Efficiency

WALL-MOUNTED INDOOR UNITS

M WH B 012 S 4 - 1 P

Series Type
M = Mini-Split

Unit Type
WH = Wall-Mounted Ductless Heat Pump Unit

Major Design Sequence
B = 2nd Generation

Nominal Cooling Capacity
009 = .75 tons
012 = 1 tons
018 = 1.5 tons
024 = 2 tons

Voltage
L = 115V-1 phase-60Hz
P = 208/230V-1 phase-60Hz

Minor Design Sequence
1 = 1st Revision
2 = 2nd Revision
3 = 3rd Revision

Refrigerant Type
4 = R-410A

Cooling Efficiency
S = Standard Efficiency

CONTENTS

APPROVALS AND WARRANTY

APPROVALS

- AHRI Standard 210/240-2023 certified
- Rated According to U.S. Department of Energy (DOE) test procedures
- Indoor and outdoor units and components UL and CEC bonded for grounding to meet safety standards for servicing
- ETL certified for the U.S. and Canada
- 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

WARRANTY

- Compressor - Limited seven years
- All other covered components - Limited five years

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

FEATURES

APPLICATIONS

- SEER - Up to 21.50
- HSPF - Up to 10.8
- 0.75 through 2 ton
- Single phase power supply
- 115V (009-012 models only)
- 208/230V (all models)
- Outdoor unit sound levels as low as 53.5 dBA
- Indoor unit sound levels as low as 20 dBA
- Ductless mini-split systems provide a wide range of capacities and applications and provide an alternative when a ducted system is impractical or cost prohibitive
- Units shipped completely factory assembled, internally piped, and wired
- Installer must set outdoor unit, hang indoor unit, connect refrigerant lines, and make electrical connections to complete job

NOTE - Outdoor unit is designed for outdoor location only.

REFRIGERATION SYSTEM

R-410A Refrigerant
- Non-chlorine, ozone friendly
- Unit is factory pre-charged

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 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 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

REFRIGERATION SYSTEM (continued)

Capillary Tube Refrigerant Metering
- Refrigerant metering device consisting of small diameter tubes feeding liquid refrigerant into the evaporator coil
- Furnished on all units

Check Valve
- Bypasses refrigerant during the reverse heating cycle
- Furnished on all models

Compressor Overcurrent Protection
- Overcurrent protection can result due to any of the following:
  - Ambient temperature is too high
  - Locked rotor on the compressor
  - Outdoor air is blocked or restricted

Condenser High Temperature Protection
- Condenser high temperature can occur due to any of the following conditions:
  - High outdoor ambient
  - Outdoor fan blocked
  - Outdoor coil blocked
- The outdoor coil thermistor continuously monitors the temperature and communicates with the microprocessor
- Depending on the temperature measured, the compressor will be allowed to increase the frequency if needed to meet the load or is forced to run at the current or reduced frequency
- If the temperature becomes excessively high the compressor will be de-energized

Compressor Discharge Temperature Protection
- The compressor discharge line thermistor continuously monitors the temperature and communicates with the microprocessor
- Depending on the temperature measured, the compressor will be allowed to increase the frequency to meet the load or is forced to run at the current or reduced frequency
- If the temperature becomes excessively high, the compressor will be de-energized

Voltage Protection
- Protects unit from low or high voltage fluctuations

Terminal Strip
- Furnished for easy wiring connections

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

Reversing Valve
- Rapid changeover of refrigerant flow direction from cooling to heating and vice versa
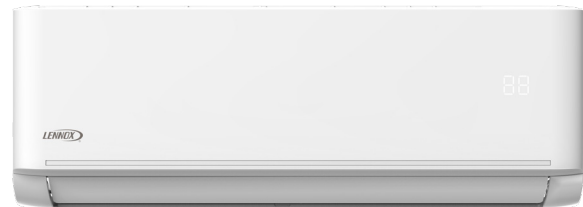- Operates on pressure differential between outdoor unit and indoor unit

CABINET
- Constructed of heavy gauge steel
- Tabs on unit base allow secure mounting to slab
- Condensate drain outlets furnished on unit base

NOTE - Drain must be field furnished.

- Access cover for power and control wiring connections
- Access cover for service valves

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
- **Wireless Remote Controller** - Furnished as standard, see Page 5

WIRELESS REMOTE CONTROLLER (RG10B-CSWHB)

- 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
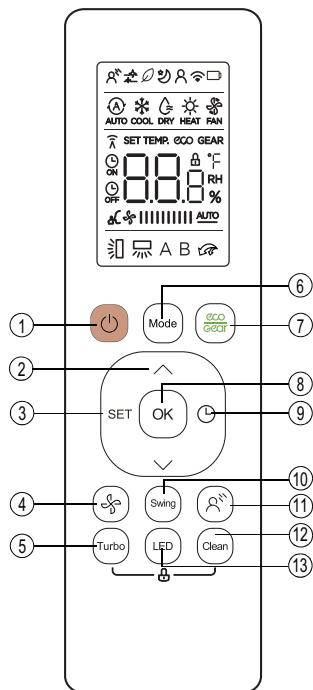
① ON/OFF Button
- Turns system on and off

② UP/DOWN Buttons ∧ ∨
- 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 °F and °C scale.

③ SET Button
- Scrolls through unit operations in this order:
  1. Sleep ☽
  2. Follow Me ☺

  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 → 20% → 40% → 60% → 80% → 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 → COOL → DRY → HEAT → 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 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

⑪ BREEZE AWAY Button
- Prevents unit from blowing air directly on a person

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

⑫ CLEAN Button
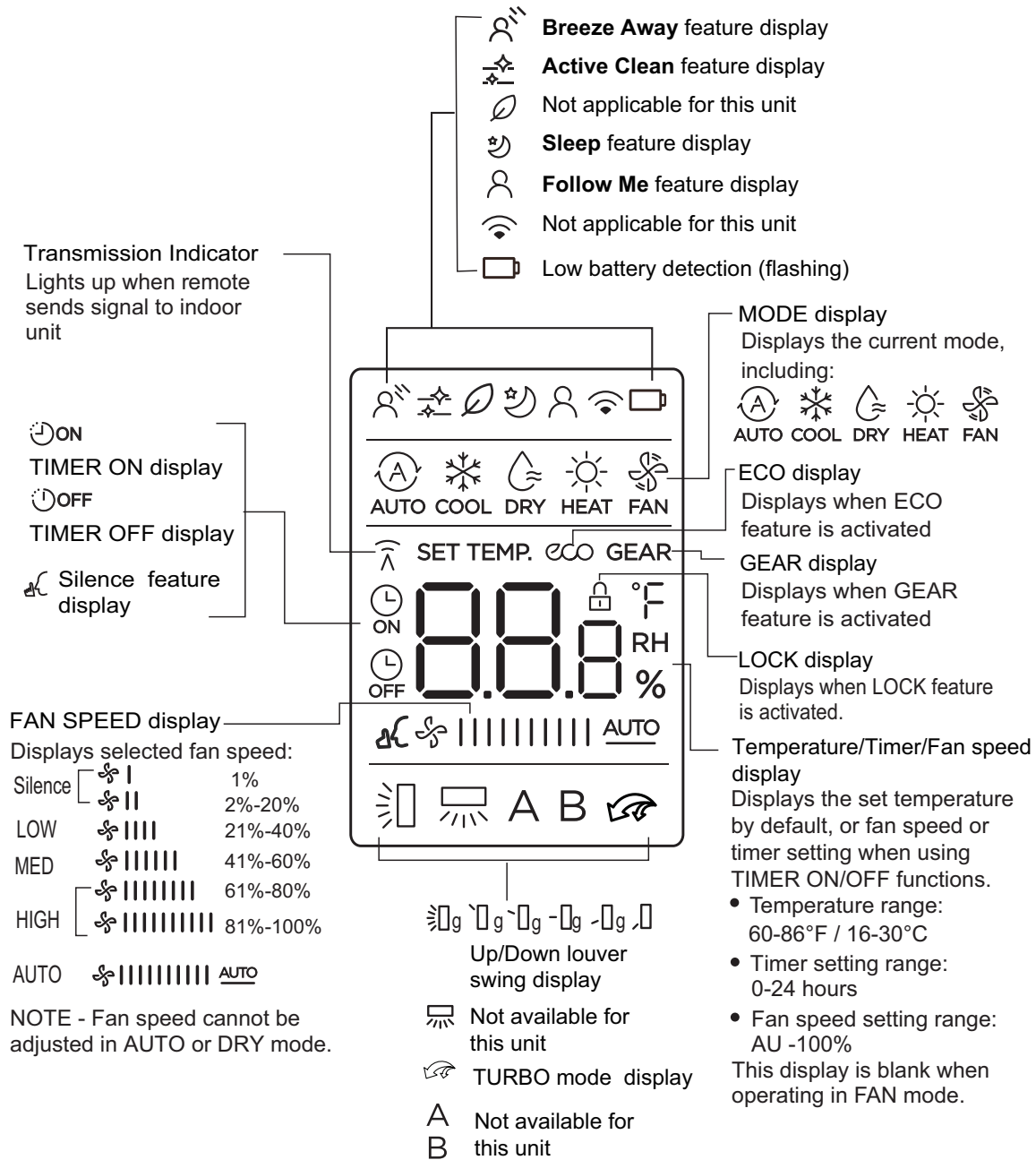- Start/stop the Active Clean function (see description on Page 7)

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)

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

Breeze Away feature display

Active 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

ECO display
Displays when ECO feature is activated

SET TEMP.   ECO GEAR

GEAR display
Displays when GEAR feature is activated

LOCK display
Displays when LOCK feature is activated.

Temperature/Timer/Fan speed display
Displays the set temperature by default, or fan speed or timer setting when using TIMER ON/OFF functions.

FAN SPEED display
Displays selected fan speed:

Silence	I	1%
	II	2%-20%
LOW	IIII	21%-40%
MED	IIIIII	41%-60%
	IIIIIIII	61%-80%
HIGH	IIIIIIIIII	81%-100%
AUTO	IIIIIIIIIII AUTO	

NOTE - Fan speed cannot be adjusted in AUTO or DRY mode.

Up/Down louver swing display

Not available for this unit

TURBO mode display

A   Not available for
B   this unit

- Temperature range: 60-86°F / 16-30°C
- Timer setting range: 0-24 hours
- Fan speed setting range: AU -100%

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-CSWHB)

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 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 8 hours
- System returns to the previous operating 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 cancel the operation

NOTE - Only available in COOL or DRY modes.

REMOTE CONTROLLERS - OPTIONAL

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
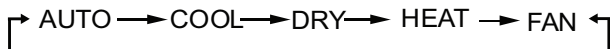- Maximum cable length is 59 ft.
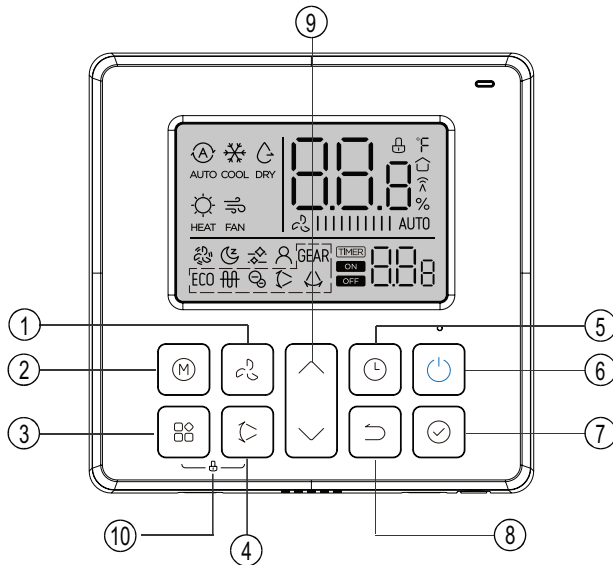
1 FAN SPEED Button

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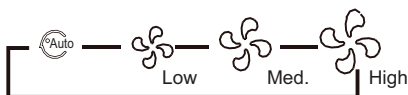
2 MODE Button

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

AUTO → COOL → DRY → HEAT → FAN

3 FUNCTION Button

- Scrolls through unit operations in this order:

  1. Turbo
  2. Sleep
  3. Active Clean
  4. 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 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

7 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
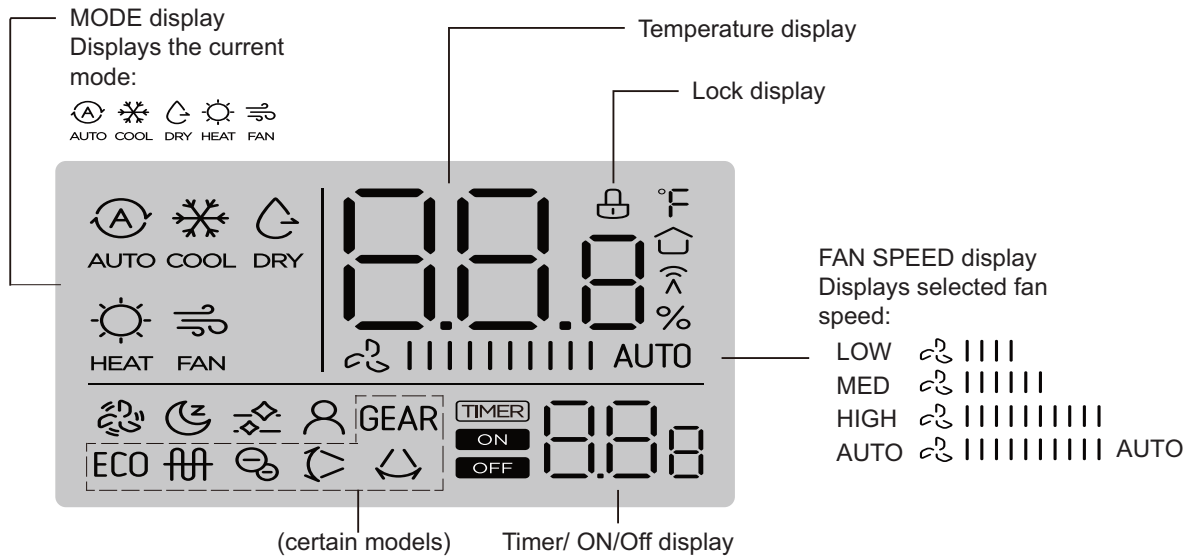
OPTIONAL ACCESSORIES

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 (M0STAT120L-1)

MODE display
Displays the current mode:

AUTO COOL DRY HEAT FAN

Temperature display

Lock display

FAN SPEED display
Displays selected fan speed:

LOW					
MED							
HIGH											
AUTO												AUTO

(certain models)   Timer/ ON/Off display

°F / °C display	Turbo feature display	GEAR GEAR feature display (certain models)
Room temperature display	Active clean display	ECO ECO feature display (on certain models)
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.

REMOTE CONTROLLERS - OPTIONAL

### 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
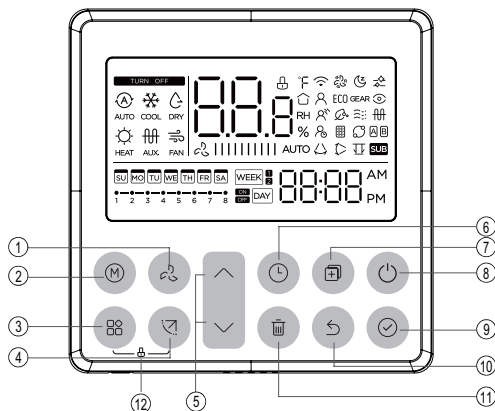
BUTTONS AND FUNCTIONS

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
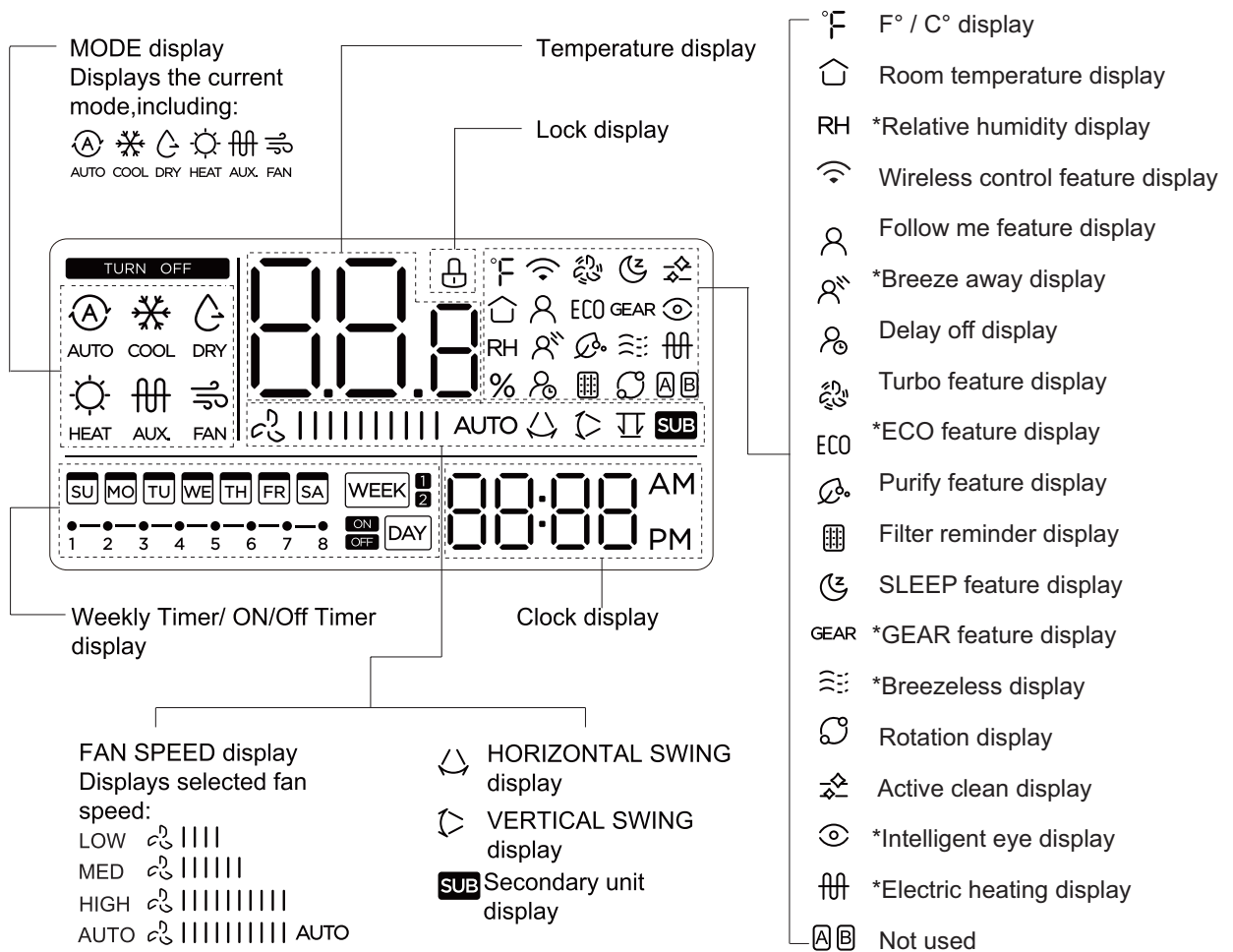
OPTIONAL ACCESSORIES

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

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

°F   F° / C° display

Room temperature display

RH   *Relative humidity display

Wireless control feature display

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

A B   Not used

*Certain Models

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

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)
- Lightweight, easy to carry and install
- Textured finish provides a non-skid surface so 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

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
- 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

SPEEDICHANNEL™ SYSTEM

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

Typical Application

Wall Penetration Cover
SpeediChannel™
90° Flat Bend
SpeediChannel™
Union Coupling
SpeediChannel™
Outdoor Unit
Duct End
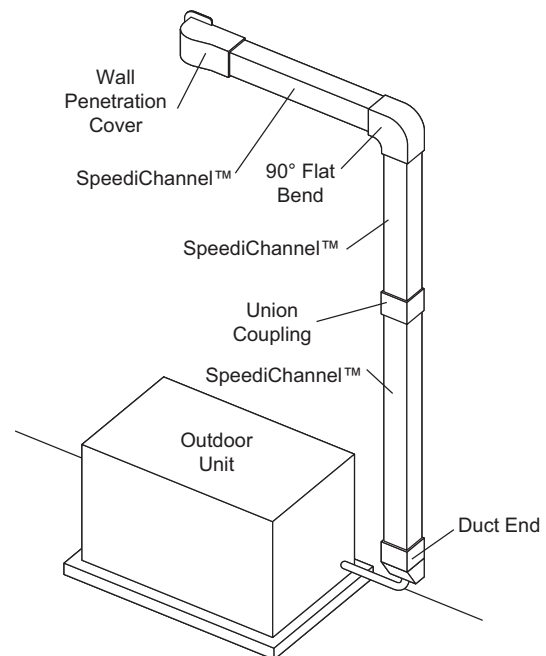
SPEEDICHANNEL™ SYSTEM (continued)

SpeediChannel™ Starter Kit
- The starter kit includes (1) Coupling, (1) Wall Penetration, (1) Inside Elbow, (1) Long Radius Flat Bend, (10) SpeediclipsTM, (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
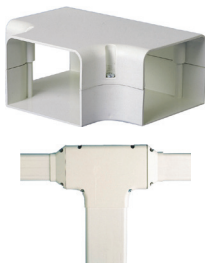
Union Coupling
- Union Couplings are used for joining two pieces of SpeediChannel™
- Each coupling is individually packed and furnished with stainless steel screws

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

45°   **90°**

90° Inside Elbow
- 90º Inside Elbows are used to route the SpeediChannel™ around an inside corner
- Each elbow is individually packed and furnished with stainless steel screws
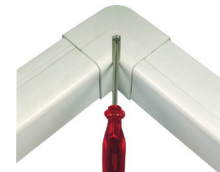
Mount Block White Qty. (2) 14 in. and (2) 36 in.
- Mount Blocks are used as mounting bases when outdoor units must be bolted down
- End caps (for aesthetics) come furnished with mounting bolts
- Maximum load capacity is 900 pounds per mounting block
- Installation temperatures range from -4ºF to 140ºF
- Mount blocks fit all mini-split outdoor units with a sliding rail feature

SPECIFICATIONS   OUTDOOR UNITS

Outdoor Unit Model No.		MHB009S4S	MHB012S4S	MHB018S4S	MHB024S4S
Nominal Size - Tons		0.75	1	1.5	2
Ambient Temperature Operating Range - °F	Cooling	5 - 122	5 - 122	5 - 122	5 - 122
	Heating	5 - 86	5 - 86	5 - 86	5 - 86
Sound Data (dBA)		55 (115V) 54.5 (208/230V)	53.5	57	60
Refrigerant (R-410A)	Charge furnished	1 lb. 9 oz.	1 lb. 13 oz.	2 lbs. 16 oz.	3 lbs. 15 oz.
Maximum line length with furnished charge - ft.		25	25	25	25
Additional charge required per ft. - oz.		0.16	0.16	0.16	0.32
Compressor	No. and Type	(1) Rotary	(1) Rotary	(1) Rotary	(1) Rotary
	Refrigerant oil type	Ester Oil VG74	Ester Oil VG74	Ester Oil VG74	Ester Oil VG74
	Refrigerant oil charge - oz.	10.5	10.1	14.9	21.0
Connections - in.	Liquid/Gas pipe (flare)	1/4 - 3/8	1/4 - 1/2	1/4 - 1/2	3/8 - 5/8
Maximum refrigerant pipe length - ft.		82	82	98	164
Max. difference in level of indoor unit - ft.		33	33	66	82
Outdoor Fan	(No.) Diameter - in.	(1) 16-1/2	(1) 16-1/2	(1) 17	(1) 21
	Total air volume - cfm	1294	1235	1235	1765
	rpm	850 / 650	(115V) (208/230V)	800 / 750 / 650	800 / 750 / 650
Outdoor Coil	Number of rows	1	1	2	2
	Fins per inch	21	21	21	21
	Fin type	Hydrophilic aluminum			
	Tube outside diameter - in.	1/4	1/4	1/4	1/4
	Tube type	Rifled copper tubing			
	Net face area - ft.²	4.01	4.02	4.66	5.90
Design Pressure	PSIG	550 / 340	550 / 340	550 / 340	550 / 340
Shipping Data	Net/Shipping weight (lbs.) (115V)	58 / 64	63 / 68	- - -	- - -
	(208/230V)	55 / 61	60 / 65	74 / 80	98 / 105

ELECTRICAL DATA

Electrical Characteristics - 60 Hz - 1 Phase		115V	208/230V	115V	208/230V	208/230V	208/230V
[1] Maximum Overcurrent Protection (amps)		30	15	25	15	20	30
[2] Minimum circuit ampacity		20	12	18.5	15	15	19
Outdoor Fan Motor	Rated load amps	0.4	0.4	0.4	0.4	0.4	0.76
	Output - W	34	34	34	34	34	80

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

[1] HACR type circuit breaker or fuse.

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

Indoor Unit Model No.	MWHB009S4		MWHB012S4	
Nominal Size - Tons	0.75		1	
Power Supply - 60 Hz - 1 phase	115V	208/230V	115V	208/230V
Rated load amps	6.3	3.11	10.13	4.9
Output (W)	20	13	20	13
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)	239 / 170 / 137	246 / 176 / 141	300 / 241 / 176	291 / 197 / 156
Sound Data (dBA) - Low/Medium/High	20 / 28 / 37.5	20 / 28 / 37	26 / 35 / 41	24 / 35 / 41
Piping Connections - Liquid/Gas - o.d. - flare - in.	1/4 / 3/8	1/4 / 3/8	1/4 / 1/2	1/4 / 1/2
Drain connection o.d. - in.	1	1	1	1
Net/Shipping weights - lbs.	18 / 23	18 / 23	19 / 24	19 / 24

Indoor Unit Model No.	MWHB018S4	MWHB024S4
Nominal Size - Tons	1.5	2
Power Supply - 60 Hz - 1 phase	208/230V	208/230V
Rated load amps	7.5	11.2
Output (W)	30	58
Room Temperature Range (°F) Cooling	60 - 90	60 - 90
Heating	32 - 86	32 - 86
Air Volume - cfm (High/Medium/Low)	459 / 329 / 271	546 / 402 / 331
Sound Data (dBA) - Low/Medium/High	30 / 38 / 45	36 / 39.5 / 45
Piping Connections - Liquid/Gas - o.d. - flare - in.	1/4 / 1/2	3/8 / 5/8
Drain connection o.d. - in.	1	1
Net/Shipping weights - lbs.	25 / 32	30 / 38

AHRI SYSTEM MATCHES

Outdoor Unit	Indoor Unit	2017					2023				AHRI Reference Number
		Cooling Capacity	SEER	EER	Heat Capacity High	Heat Capacity Low	HSPF (IV)	Cooling Capacity	SEER2	EER2	High Heat	HSPF2 (IV)	

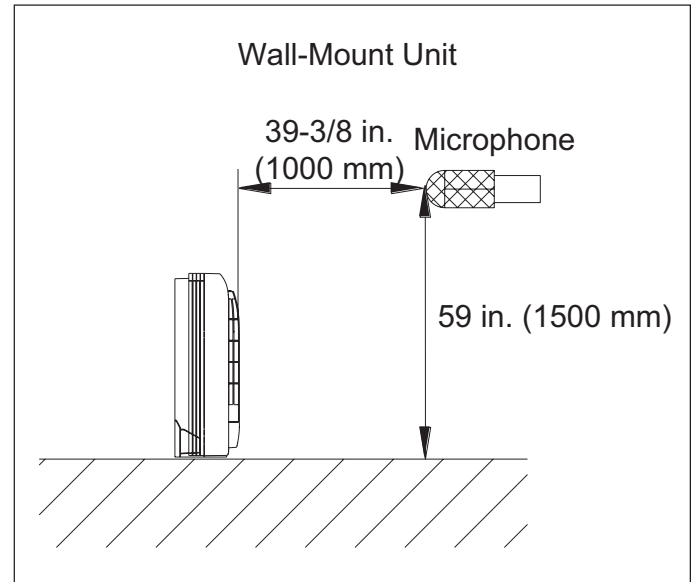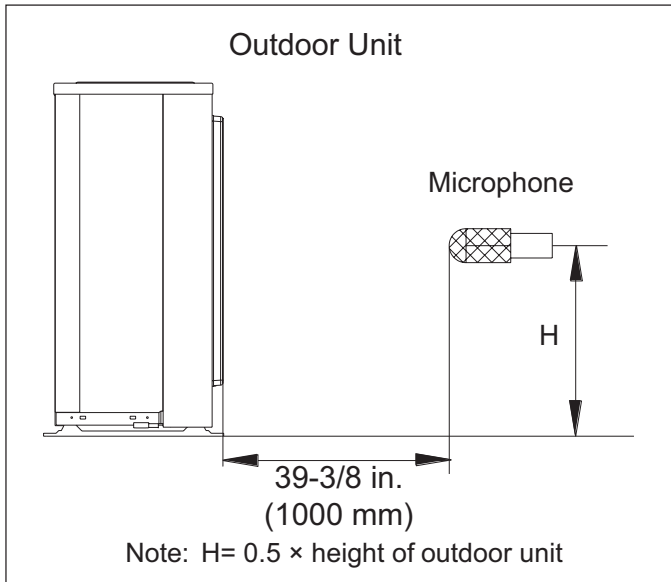| Outdoor Unit	Indoor Unit	Cooling Capacity	SEER	EER	High	Low	HSPF (IV)	Cooling Capacity	SEER2	EER2	High Heat	HSPF2 (IV)	AHRI Reference Number
MHB009S4S-1L	MWHB009S4-*L	9000	21.50	12.5	10000	6300	10.3	9000	21.5	12.5	10000	9.1	211034461
MHB009S4S-1P	MWHB009S4-*P	9000	21.50	12.6	10000	6000	10	9000	21.7	12.6	10000	9.4	211034463
MHB012S4S-1L	MWHB012S4-*L	12000	20.00	10.3	12000	7800	10.8	12000	20.8	10.3	12000	8.7	211034462
MHB012S4S-1P	MWHB012S4-*P	12000	20.50	10.8	12000	7000	10.7	12000	21.4	10.8	12000	9.2	211034464
MHB018S4S-1P	MWHB018S4-*P	18000	19.50	11.0	18800	11400	10	18000	19.5	10.8	18800	8.7	211034465
MHB024S4S-1P	MWHB024S4-*P	24000	18.50	9.5	24000	16500	10.2	23800	18.5	9.5	24000	8.6	211034466

Ratings are AHRI certified to AHRI Standard 210/240;
  • Cooling Ratings - 95°F wet bulb/75°F dry bulb outdoor air temperature and 80°F dry bulb/67°F wet bulb entering indoor coil air.
  • High Temperature Heating Ratings - 47°F dry bulb/43°F wet bulb outdoor air temperature and 70°F dry bulb/60°F wet bulb entering indoor coil air.
  • Low Temperature Heating Ratings - 17°F dry bulb/15°F wet bulb outdoor air temperature and 70°F dry bulb/60°F wet bulb entering indoor coil air.

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

OPTIONAL ACCESSORIES - ORDER SEPARATELY

Description		Catalog No.	Size 009	012	018	024
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 (H x W)	(1) 18-7/8 x 27-1/2 in. + (1) 18 x 9-1/8 in.	24M82	•	•		
	(1) 18-7/8 x 29-1/2 in + (1) 18 x 10-1/4 in.	24M81			•	
	(1) 22-7/8 x 32 in. + (1) 22-1/4 x 11 in.	24M85				•
Line Sets	1/4 in. x 3/8 in. x 25 ft.	90X53	•	N/A		
	1/4 in. x 3/8 in. x 50 ft.	X0258	•	N/A		
	1/4 in. x 1/2 in. x 25 ft.	90X52	N/A	•	•	N/A
	1/4 in. x 1/2 in. x 50 ft.	X0259	N/A	•	•	N/A
	3/8 in. x 5/8 in. x 25 ft.	X8406	N/A			•
	3/8 in. x 5/8 in. x 50 ft.	X8407	N/A			•
Wall Brackets	30 inch	X1727	•	•	•	•
Whips	10 Gauge - 1/2 in. x 6 ft.	29P54	•	•	•	•
	8 Gauge - 3/4 in. x 6 ft.	27P44	•	•	•	•
INDOOR UNIT						
[1] Diversitech Condensate Pumps with Reservoir	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 - 110v-230V	14T74	•	•	•	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	•	•	•	•
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	•	•	•	•
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] Y7949 and 14T74 condensate pumps can be installed inside the indoor units. All other pumps must be installed external to the indoor unit.

Outdoor Unit

Microphone

H

39-3/8 in.
(1000 mm)

Note: H= 0.5 × height of outdoor unit

Wall-Mount Unit

39-3/8 in.
(1000 mm)

Microphone

59 in. (1500 mm)

COOLING CAPACITY   009 (115V)

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)							
	65°F / 54°F		70°F / 59°F		75°F / 63°F		80°F / 67°F	
	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh
5	8.92	6.28	9.46	6.62	9.97	6.94	10.47	7.26
17	9.50	6.86	9.97	7.16	10.54	7.53	10.98	7.79
25	9.76	6.91	10.29	7.24	10.72	7.50	11.28	7.85
35	10.02	7.14	10.66	7.56	11.12	7.84	11.60	8.14
47	9.73	7.28	10.20	7.59	10.78	7.98	11.39	8.38
55	9.80	7.31	10.22	7.58	10.67	7.87	11.16	8.19
65	9.17	7.25	9.68	7.62	10.30	8.06	10.93	8.51
75	9.10	7.10	9.65	7.49	10.09	7.79	10.70	8.22
85	8.80	6.96	9.30	7.31	9.74	7.61	10.19	7.92
95	8.55	7.12	9.00	7.46	9.44	7.78	9.90	8.12
105	7.93	6.84	8.42	7.22	8.91	7.60	9.47	8.04
110	7.81	6.93	8.18	7.23	8.65	7.61	9.11	7.97
115	7.48	6.99	7.82	7.26	8.21	7.57	8.58	7.87
122	6.86	6.84	7.28	7.22	7.61	7.52	8.00	7.87

HEATING CAPACITY   009 (115V)

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb)			
	60°F	65°F	70°F	75°F
	Total mBtuh	Total mBtuh	Total mBtuh	Total mBtuh
5	6.07	5.87	5.68	5.43
10	6.92	6.73	6.53	6.25
17	7.92	7.65	7.42	7.16
20	8.22	7.98	7.74	7.40
25	8.53	8.25	8.04	7.71
32	8.77	8.54	8.33	7.96
35	9.12	8.90	8.66	8.28
40	10.15	9.90	9.66	9.26
45	11.29	10.95	10.65	10.28
50	11.83	11.47	11.16	10.73
57	12.40	12.01	11.61	11.19

COOLING CAPACITY

009 (208/230V)

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)							
	65°F / 54°F		70°F / 59°F		75°F / 63°F		80°F / 67°F	
	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh
5	9.42	6.54	9.89	6.84	10.45	7.18	10.95	7.49
17	9.26	6.53	9.78	6.86	10.33	7.21	10.85	7.53
25	9.98	7.24	10.46	7.54	10.91	7.82	11.37	8.09
35	10.30	7.75	10.77	8.06	11.35	8.45	11.84	8.76
47	9.92	7.40	10.53	7.81	11.03	8.13	11.66	8.55
55	9.80	7.31	10.42	7.74	11.04	8.16	11.55	8.49
65	9.63	7.53	10.25	7.97	10.84	8.39	11.45	8.80
75	9.64	7.66	10.21	8.06	10.86	8.53	11.34	8.87
85	9.31	7.33	9.71	7.59	10.12	7.87	10.66	8.24
95	8.62	6.92	9.17	7.32	9.56	7.59	10.14	8.00
105	8.33	6.93	8.76	7.26	9.29	7.65	9.71	7.94
110	8.04	7.34	8.40	7.62	8.86	7.99	9.33	8.36
115	7.69	7.10	8.06	7.40	8.46	7.73	8.87	8.07
122	7.28	7.26	7.67	7.61	7.99	7.90	8.34	8.21

HEATING CAPACITY

009 (208/230V)

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb)			
	60°F	65°F	70°F	75°F
	Total mBtuh	Total mBtuh	Total mBtuh	Total mBtuh
5	6.43	6.21	6.00	5.74
10	7.20	7.02	6.79	6.52
17	8.14	7.92	7.71	7.43
20	8.67	8.39	8.19	7.89
25	9.26	8.98	8.70	8.32
32	9.74	9.43	9.17	8.85
35	10.26	9.94	9.66	9.22
40	10.88	10.57	10.22	9.84
45	11.37	11.06	10.75	10.26
50	11.92	11.53	11.18	10.69
57	12.38	12.07	11.72	11.29

COOLING CAPACITY   012 (115V)

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)							
	65°F / 54°F		70°F / 59°F		75°F / 63°F		80°F / 67°F	
	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh
5	11.06	7.60	11.52	7.88	12.00	8.16	12.77	8.64
17	11.13	7.91	11.67	8.26	12.41	8.74	13.16	9.21
25	11.35	8.08	11.92	8.44	12.59	8.86	13.32	9.32
35	11.43	8.33	12.02	8.71	12.71	9.16	13.45	9.64
47	11.14	8.16	11.62	8.45	12.17	8.81	12.90	9.28
55	11.02	8.40	11.63	8.82	12.31	9.29	12.92	9.70
65	11.04	8.37	11.65	8.79	12.34	9.26	12.93	9.65
75	11.02	8.63	11.65	9.08	12.19	9.46	12.94	9.98
85	11.01	8.65	11.49	8.97	12.06	9.36	12.79	9.87
95	11.01	8.95	11.49	9.29	12.06	9.69	12.57	10.05
105	10.47	8.76	11.04	9.19	11.53	9.54	12.05	9.92
110	9.79	8.97	10.40	9.46	11.05	9.99	11.57	10.41
115	9.54	9.06	10.11	9.54	10.54	9.89	10.99	10.25
122	8.77	8.74	9.28	9.21	9.69	9.58	10.11	9.94

HEATING CAPACITY   012 (115V)

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb)			
	60°F	65°F	70°F	75°F
	Total mBtuh	Total mBtuh	Total mBtuh	Total mBtuh
5	7.49	7.25	7.01	6.71
10	7.94	7.74	7.53	7.27
17	8.53	8.28	8.06	7.70
20	9.31	9.07	8.76	8.46
25	10.12	9.82	9.51	9.09
32	10.85	10.52	10.21	9.76
35	11.67	11.34	10.99	10.55
40	12.66	12.31	11.94	11.41
45	13.61	13.20	12.88	12.30
50	14.26	13.83	13.45	12.93
57	14.91	14.48	14.04	13.50

COOLING CAPACITY

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)							
	65°F / 54°F		70°F / 59°F		75°F / 63°F		80°F / 67°F	
	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh
5	10.60	7.36	11.12	7.68	11.81	8.12	12.38	8.46
17	10.94	7.97	11.45	8.29	12.14	8.75	12.67	9.09
25	10.97	7.87	11.51	8.21	12.20	8.66	12.90	9.11
35	11.25	8.46	11.96	8.94	12.52	9.31	13.13	9.70
47	11.03	8.07	11.72	8.53	12.47	9.02	13.22	9.51
55	11.34	8.61	11.91	9.01	12.45	9.37	13.17	9.85
65	11.12	8.62	11.72	9.04	12.37	9.49	13.12	10.01
75	11.32	8.85	11.84	9.20	12.51	9.67	13.07	10.04
85	11.36	8.83	11.95	9.23	12.49	9.59	13.22	10.09
95	11.35	9.35	11.96	9.80	12.63	10.29	13.40	10.85
105	11.10	9.56	11.71	10.02	12.34	10.51	12.89	10.92
110	10.85	9.92	11.30	10.28	11.79	10.67	12.32	11.09
115	9.98	9.28	10.58	9.77	11.09	10.19	11.66	10.66
122	9.38	9.32	9.81	9.71	10.34	10.20	10.91	10.70

HEATING CAPACITY

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb)			
	60°F	65°F	70°F	75°F
	Total mBtuh	Total mBtuh	Total mBtuh	Total mBtuh
5	8.46	8.17	7.94	7.62
10	9.10	8.83	8.55	8.21
17	9.65	9.33	9.07	8.70
20	10.10	9.83	9.56	9.14
25	10.65	10.33	10.05	9.70
32	11.17	10.83	10.53	10.05
35	11.74	11.35	10.99	10.53
40	13.36	12.95	12.53	12.09
45	14.77	14.31	13.92	13.36
50	15.46	15.05	14.59	13.95
57	16.14	15.66	15.17	14.62

COOLING CAPACITY   018 (208/230V)

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)							
	65°F / 54°F		70°F / 59°F		75°F / 63°F		80°F / 67°F	
	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh
5	14.73	10.34	15.39	10.74	16.20	11.25	17.20	11.87
17	14.89	10.53	15.60	10.96	16.56	11.58	17.36	12.08
25	14.97	10.82	15.76	11.31	16.67	11.91	17.72	12.60
35	15.90	11.36	16.61	11.81	17.34	12.26	18.14	12.77
47	16.09	12.22	16.90	12.77	17.63	13.25	18.75	14.01
55	16.37	12.77	17.05	13.23	17.97	13.88	19.09	14.68
65	16.43	12.98	17.41	13.66	18.48	14.43	19.45	15.10
75	16.97	13.08	17.77	13.62	18.83	14.34	19.80	14.98
85	16.82	13.69	17.88	14.47	18.90	15.20	19.73	15.78
95	16.48	13.55	17.45	14.28	18.47	15.04	19.30	15.63
105	16.02	13.31	16.77	13.86	17.60	14.47	18.60	15.20
110	15.19	13.58	16.16	14.37	16.92	14.96	17.76	15.62
115	14.42	13.33	15.23	14.00	15.93	14.56	16.59	15.10
122	13.11	13.07	13.87	13.76	14.69	14.53	15.33	15.10

HEATING CAPACITY   018 (208/230V)

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb)			
	60°F	65°F	70°F	75°F
	Total mBtuh	Total mBtuh	Total mBtuh	Total mBtuh
5	11.39	11.03	10.76	10.37
10	12.30	12.00	11.71	11.24
17	13.38	13.02	12.60	12.12
20	14.42	14.04	13.62	13.04
25	15.57	15.04	14.60	14.08
32	16.54	16.10	15.59	14.95
35	17.66	17.08	16.67	15.97
40	18.89	18.28	17.72	16.92
45	19.69	19.11	18.59	17.81
50	20.44	19.79	19.14	18.41
57	20.83	20.26	19.71	18.86

COOLING CAPACITY

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)							
	65°F / 54°F		70°F / 59°F		75°F / 63°F		80°F / 67°F	
	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh	Total mBtuh	Sensible mBtuh
5	20.55	14.54	21.75	15.30	23.04	16.12	24.28	16.87
17	21.20	15.08	22.15	15.68	23.15	16.29	24.50	17.15
25	21.47	15.78	22.84	16.68	23.89	17.37	25.07	18.13
35	22.71	16.55	23.66	17.15	24.64	17.78	25.72	18.44
47	21.85	15.79	23.13	16.61	24.37	17.39	25.57	18.16
55	22.22	17.04	23.52	17.96	24.50	18.60	26.00	19.63
65	22.10	16.71	23.51	17.69	24.90	18.65	26.46	19.69
75	22.93	18.26	24.24	19.20	25.38	20.00	26.89	21.08
85	21.85	17.23	23.02	18.07	24.41	19.07	25.94	20.13
95	20.88	16.61	22.05	17.43	23.33	18.36	24.61	19.25
105	20.21	16.92	21.34	17.77	22.33	18.47	23.73	19.53
110	19.38	17.26	20.49	18.16	21.61	19.04	22.89	20.08
115	18.64	17.64	19.58	18.42	20.39	19.10	21.63	20.16
122	17.33	17.19	18.28	18.06	19.13	18.81	20.22	19.81

HEATING CAPACITY

Outdoor Temperature - °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb)			
	60°F	65°F	70°F	75°F
	Total mBtuh	Total mBtuh	Total mBtuh	Total mBtuh
5	16.10	15.57	15.09	14.50
10	17.62	17.11	16.66	15.93
17	19.25	18.74	18.14	17.40
20	20.20	19.58	19.02	18.34
25	21.20	20.57	19.87	19.00
32	21.99	21.24	20.73	19.88
35	22.71	22.11	21.53	20.56
40	26.02	25.17	24.32	23.25
45	28.31	27.52	26.69	25.76
50	29.03	28.27	27.44	26.34
57	29.90	29.11	28.29	27.16

MWHB009S4 - COOLING
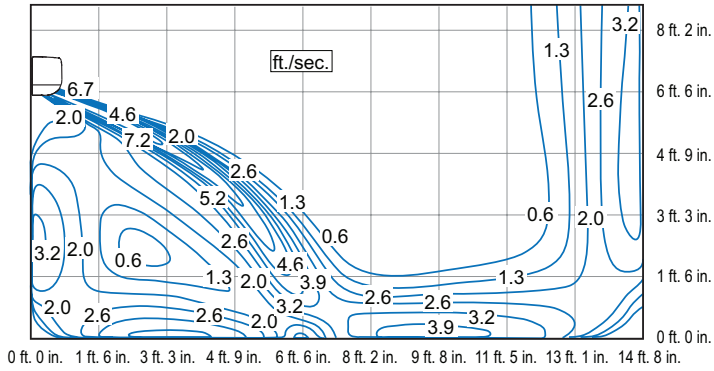
MWHB009S4 - HEATING
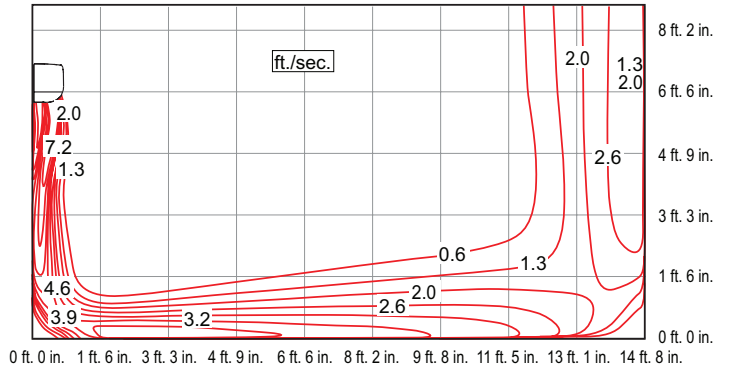
MWHB012S4 - COOLING
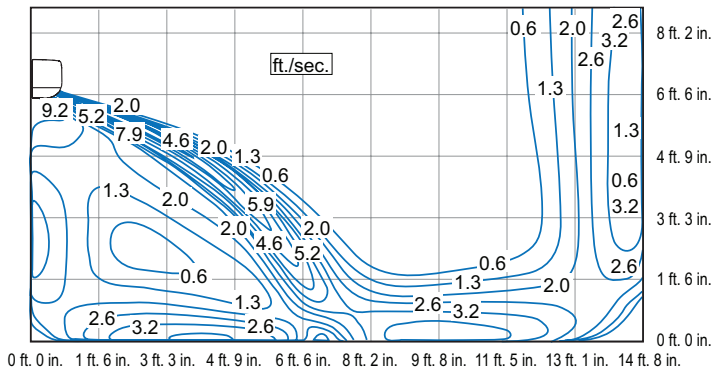
MWHB012S4 - HEATING
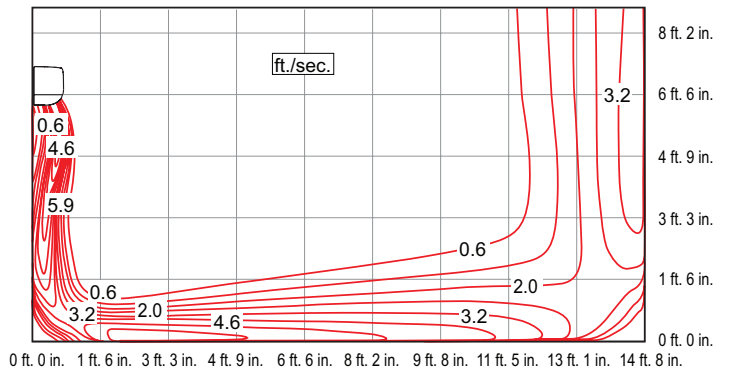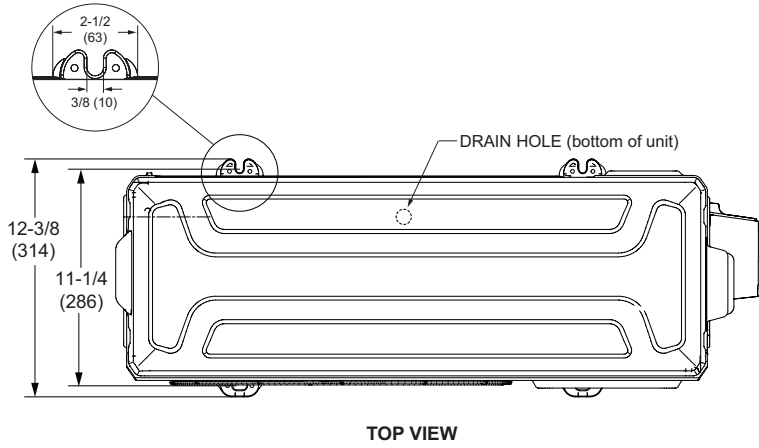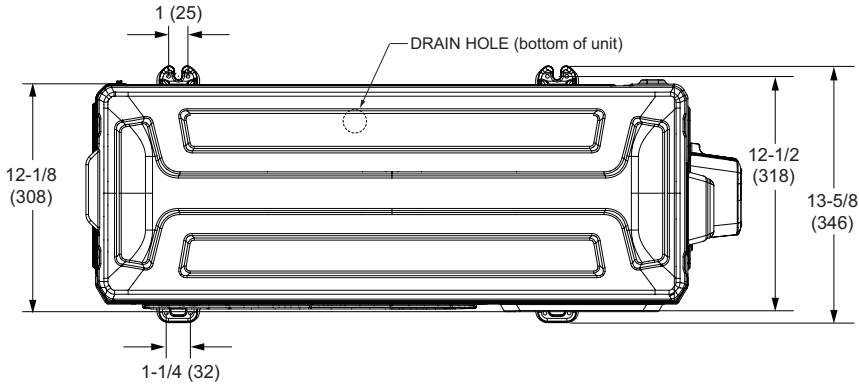

MWHB018S4 - COOLING
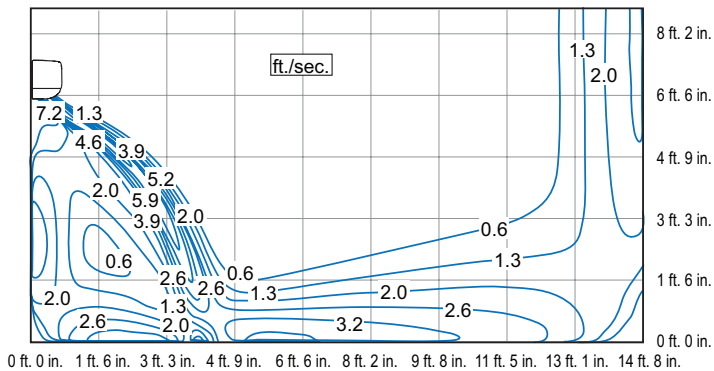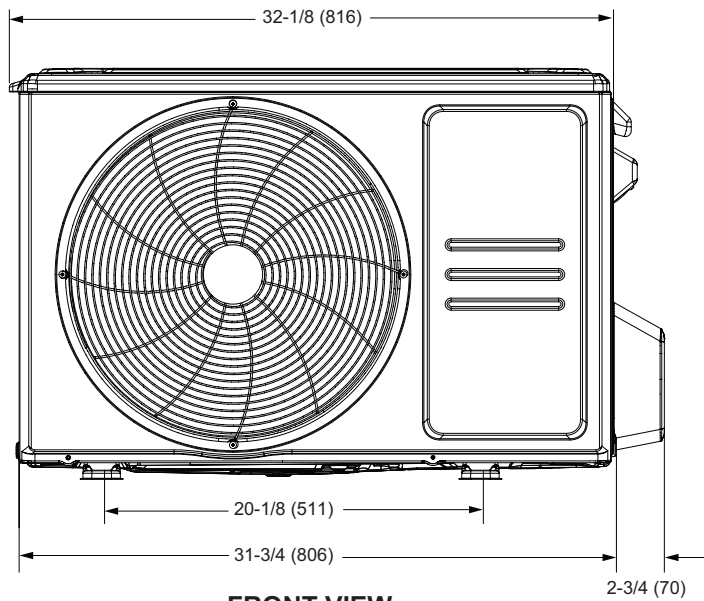

MWHB018S4 - HEATING
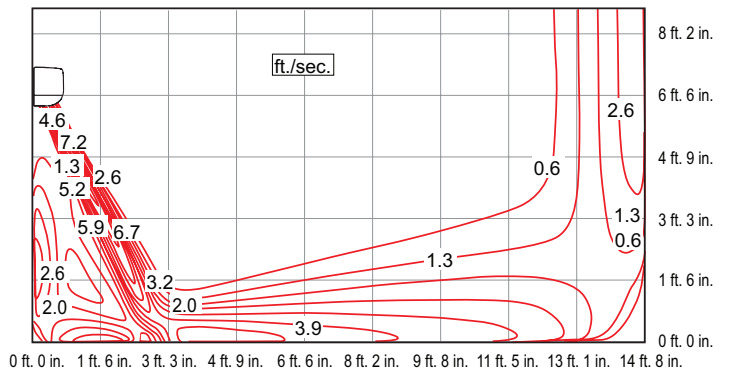
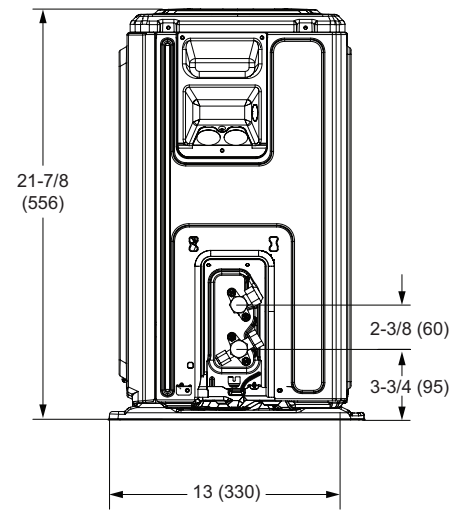## MWHB024S4 - COOLING
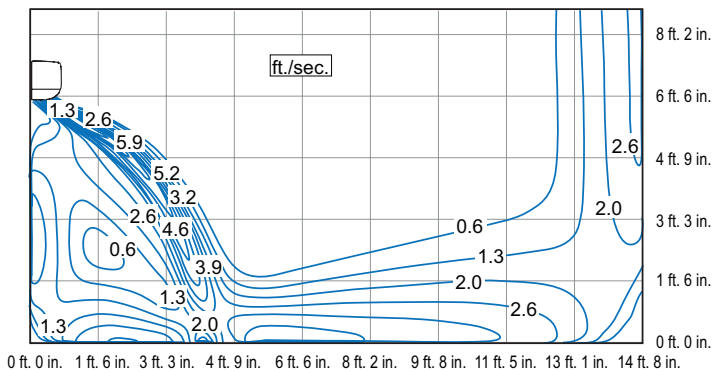
MWHB024S4 - HEATING
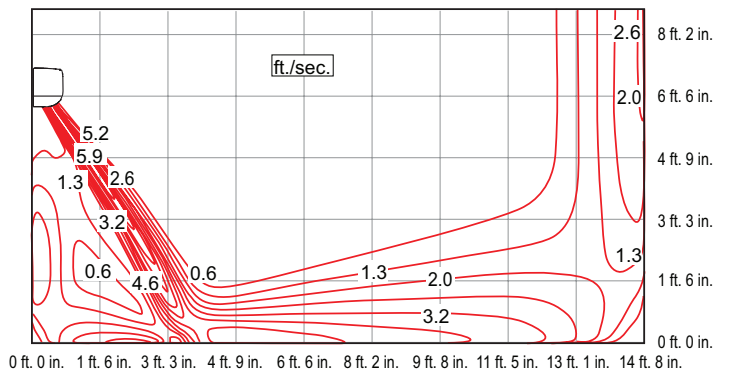
MHB009S4, MHB012S4

2-1/2
(63)

3/8 (10)

DRAIN HOLE (bottom of unit)

12-3/8
(314)

11-1/4
(286)

TOP VIEW

30-7/8 (784)

21-7/8
(556)

2-3/8 (60)

3-5/8 (92)

17-3/4 (451)

30-1/8 (765)

2-3/4 (70)

11-7/8 (302)

FRONT VIEW

SIDE VIEW

MHB018S4

1 (25)

DRAIN HOLE (bottom of unit)

12-1/8
(308)

12-1/2
(318)

13-5/8
(346)

1-1/4 (32)

TOP VIEW

32-1/8 (816)

20-1/8 (511)

31-3/4 (806)

2-3/4 (70)

FRONT VIEW

21-7/8
(556)

2-3/8 (60)

3-3/4 (95)

13 (330)

SIDE VIEW

MHB024S4

3
(76)

1/2 (13)

DRAIN HOLE (bottom of unit)

15
(381)

12-3/4
(324)

13-3/4
(349)

TOP VIEW

35-1/4 (895)

26-1/2
(673)

26-1/8 (664)

35 (889)

2-1/2 (64)

2-3/8 (60)

4-1/4 (108)

13-1/2 (343)
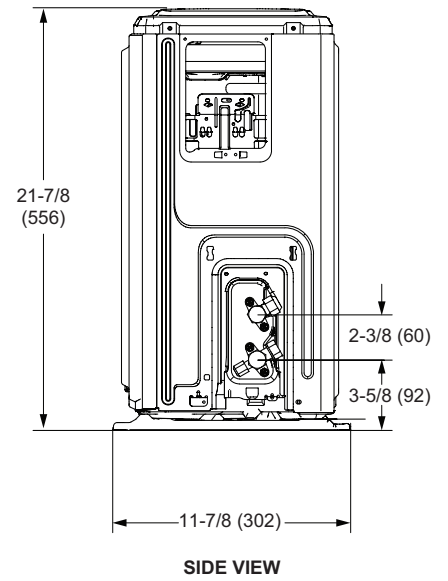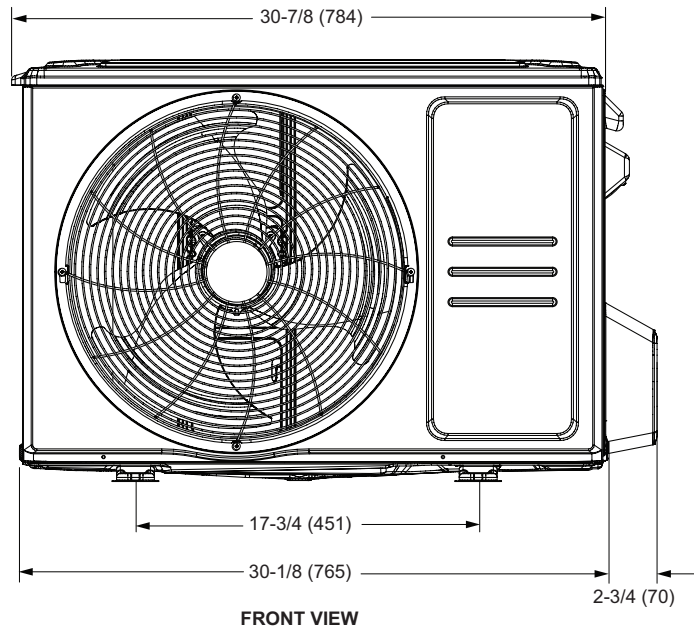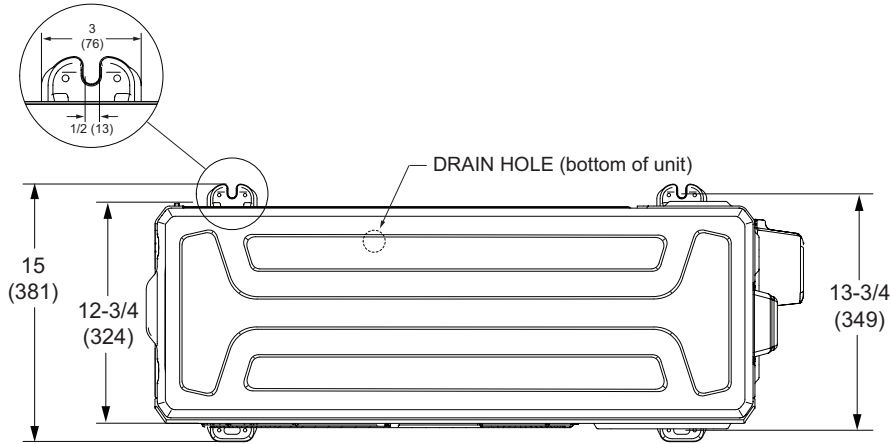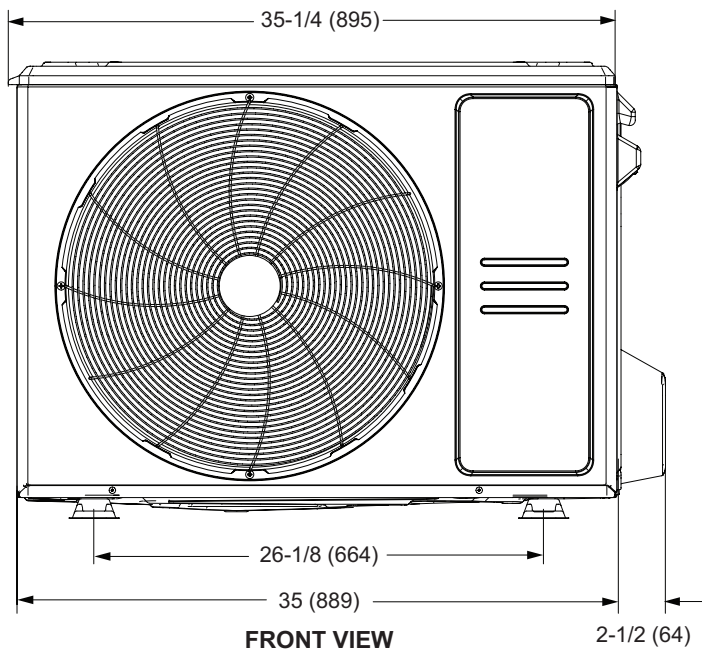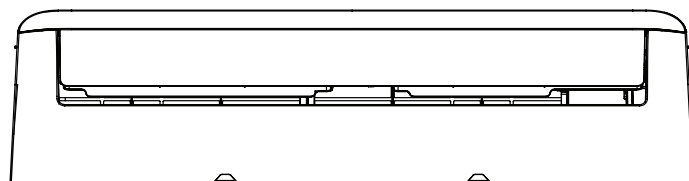
FRONT VIEW

SIDE VIEW

MWHB009

8-1/8
(207)

28-3/4 (730)

11-1/2
(292)

SIDE VIEW

FRONT VIEW

BOTTOM VIEW

MWHB012

7-7/8
(200)

31-3/4 (806)

11-5/8
(295)
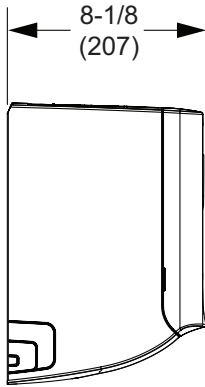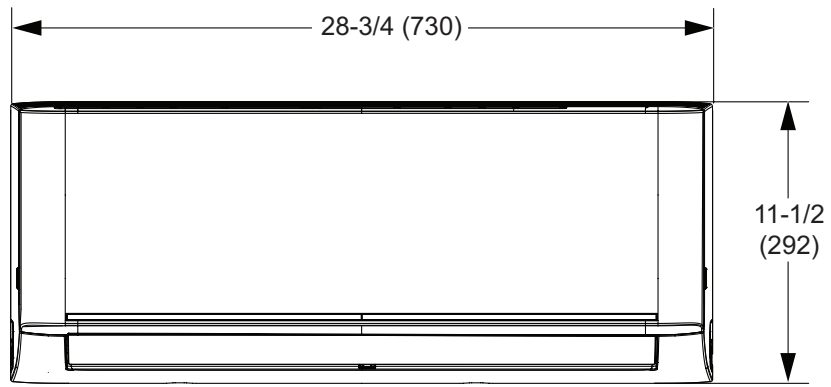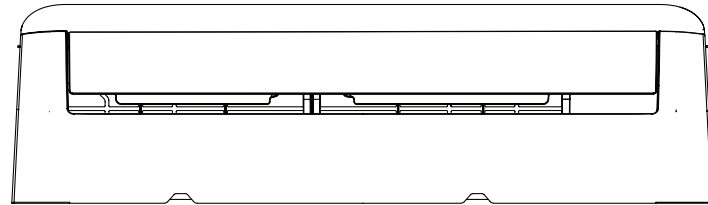
SIDE VIEW

FRONT VIEW

BOTTOM VIEW

MWHB018

9-1/8 (232)
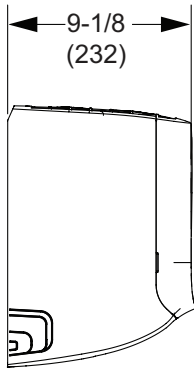
38-1/4 (972)

12-3/4 (324)

SIDE VIEW

FRONT VIEW

BOTTOM VIEW

MWHB024

9-3/8 (238)
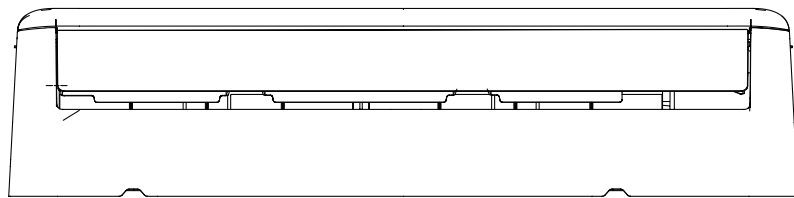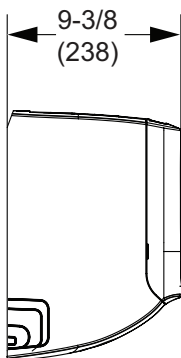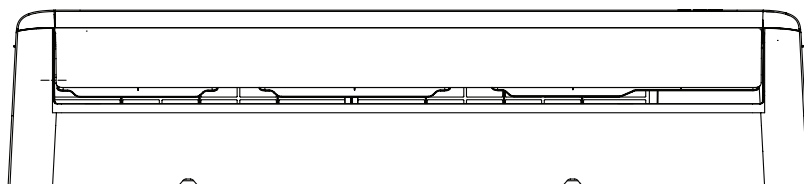
42-5/8 (1083)

13-1/4 (337)
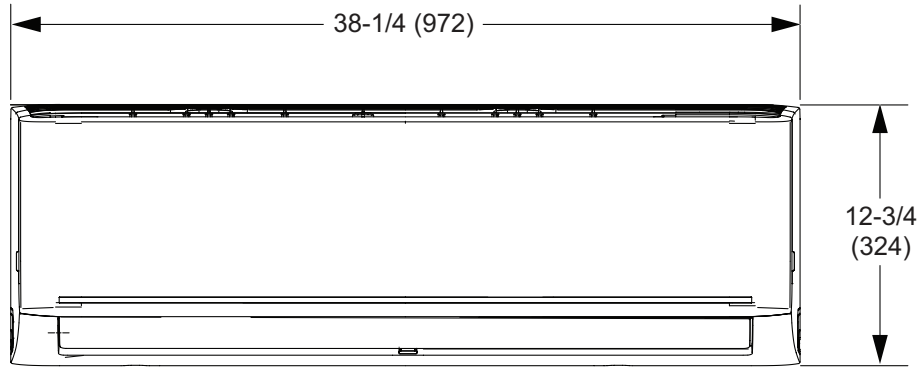
SIDE VIEW
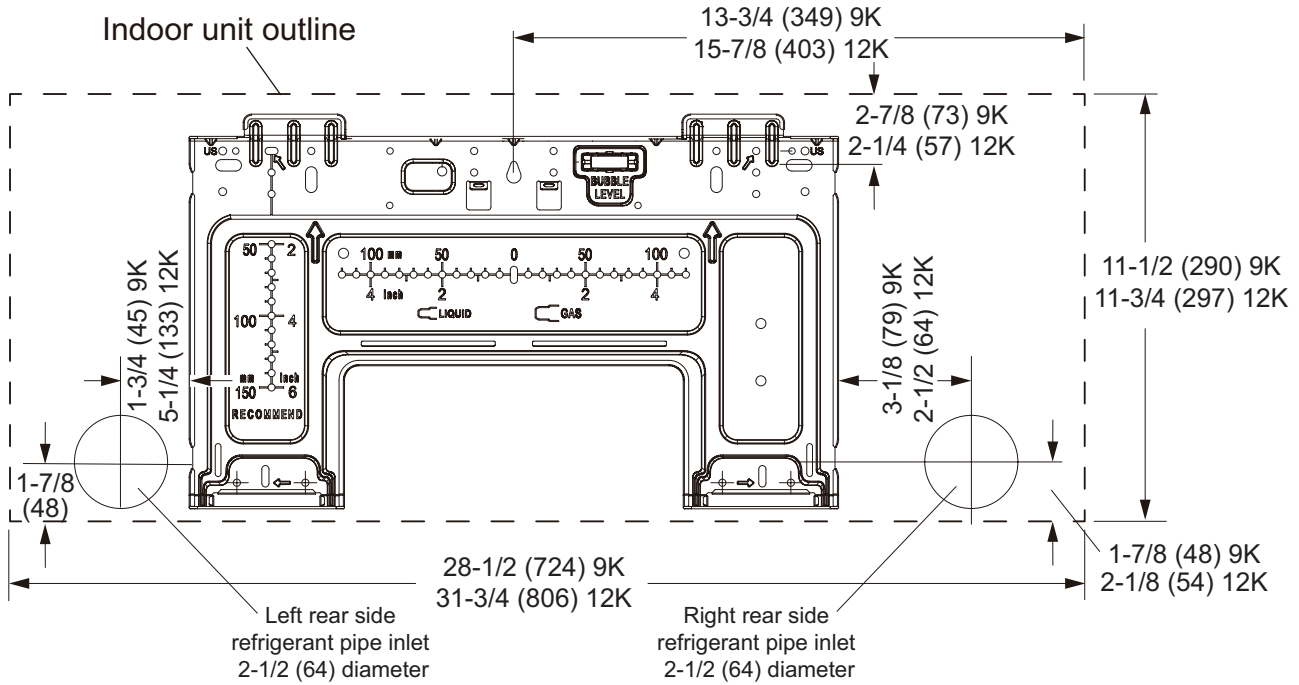
FRONT VIEW

BOTTOM VIEW

MWHB009, MWHB012

Indoor unit outline

13-3/4 (349) 9K
15-7/8 (403) 12K

2-7/8 (73) 9K
2-1/4 (57) 12K

11-1/2 (290) 9K
11-3/4 (297) 12K

1-3/4 (45) 9K
5-1/4 (133) 12K

3-1/8 (79) 9K
2-1/2 (64) 12K

1-7/8 (48)

50 2
100 4
mm inch
150 6
RECOMMEND

100 mm 50 0 50 100
4 inch 2 2 4
LIQUID GAS

BUBBLE LEVEL

28-1/2 (724) 9K
31-3/4 (806) 12K

1-7/8 (48) 9K
2-1/8 (54) 12K

Left rear side
refrigerant pipe inlet
2-1/2 (64) diameter

Right rear side
refrigerant pipe inlet
2-1/2 (64) diameter

MWHB018, MWHB024

Indoor unit outline

20-3/4 (527) 18K
23-3/4 (603) 24K

2-1/8 (54) 18K
2-1/4 (57) 24K

12-1/2 (318) 18K
13-3/8 (340) 24K

2-1/2 (64) 18K
3-3/8 (86) 24K

3-7/8 (98) 18K
5-1/8 (130) 24K

50
100 4
mm inch
150 6
RECOMMAND

100 mm 50 0 50 100
4 inch 2 2 4
LIQUID GAS

BUBBLE LEVEL

38-1/4 (972) 18K
42-5/8 (1083) 24K

1-7/8 (48) 18K
2-1/8 (54) 24K

Left rear side
refrigerant pipe inlet
2-1/2 (64) diameter 18K
3-1/2 (90) 24K

Right rear side
refrigerant pipe inlet
2-1/2 (64) diameter 18K
3-1/2 (90) 24K

24 (610)

12 (305)

24 (610)

Air Inlet

[1] 12 (305)

79 (2007)

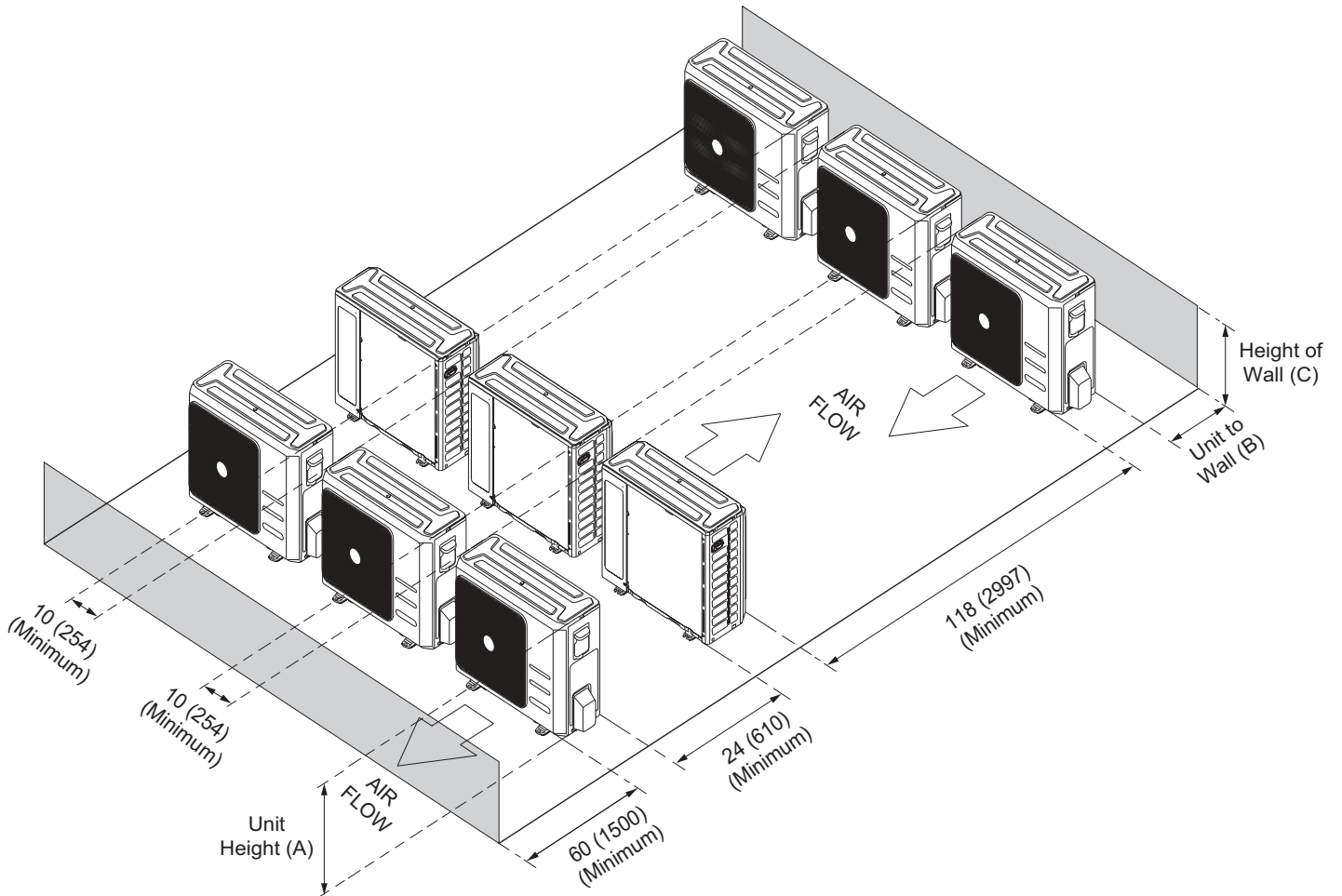Air Outlet

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

AIR FLOW

Height of Wall (C)

Unit to Wall (B)

118 (2997) (Minimum)

10 (254) (Minimum)

10 (254) (Minimum)

AIR FLOW

Unit Height (A)

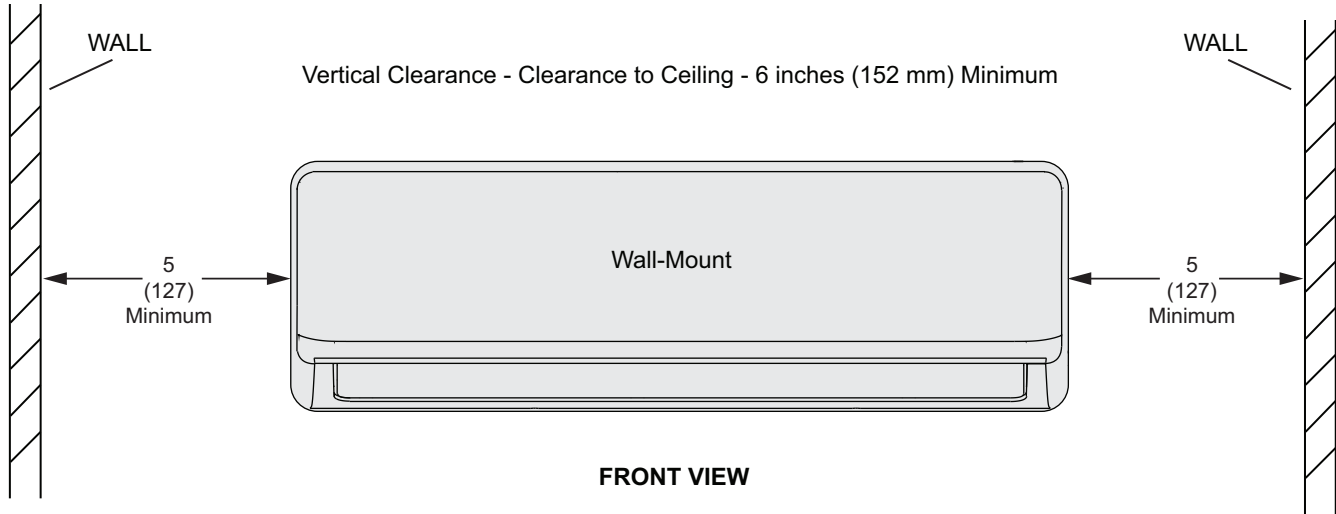24 (610) (Minimum)

60 (1500) (Minimum)

CLEARANCE NOTES FOR MULTIPLE UNITS:

If the height of the wall (C) is less than or equal to the height of the smallest unit (A), the distance from the unit to the wall (B) must be a minimum of 10 inches (254 mm).

If 1/2 the height of the unit (A) is less than the height of the wall (C), the distance from the unit to the wall (B) must be a minimum of 12 inches (305 mm).
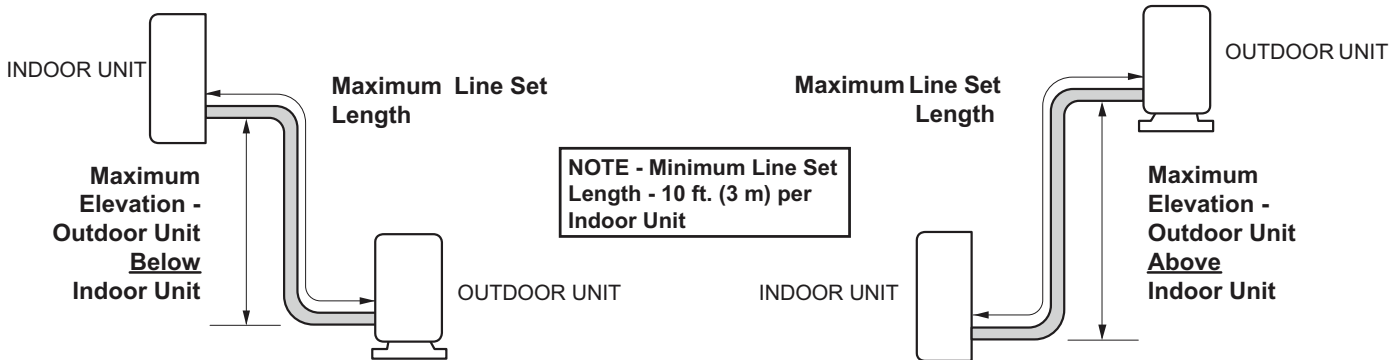
If the height of the wall (C) is greater than the height of the unit (A), the distance from the unit to the wall (B) must be a minimum of 20 inches (508 mm).

WALL

WALL

Vertical Clearance - Clearance to Ceiling - 6 inches (152 mm) Minimum

Wall-Mount

5
(127)
Minimum

5
(127)
Minimum

FRONT VIEW

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

LINE SET AND ELEVATION GUIDELINES

Outdoor Unit <u>BELOW</u> Indoor Unit

Outdoor Unit <u>ABOVE</u> Indoor Unit

INDOOR UNIT

**Maximum Line Set
Length**

**Maximum
Elevation -
Outdoor Unit
<u>Below</u>
Indoor Unit**

OUTDOOR UNIT

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

**Maximum Line Set
Length**

OUTDOOR UNIT

**Maximum
Elevation -
Outdoor Unit
<u>Above</u>
Indoor Unit**

INDOOR UNIT

Size	Line Set Diameters (in.)		Maximum Elevation - Outdoor Unit <u>Below</u> Indoor Unit ft. (m)	Maximum Elevation - Outdoor Unit <u>Above</u> Indoor Unit ft. (m)	Maximum Line Set Length ft. (m)
	Liquid	Gas			
009	1/4	3/8	33 ft. (10 m)	33 ft. (10 m)	82 ft. (25 m)
012	1/4	1/2	33 ft. (10 m)	33 ft. (10 m)	82 ft. (25 m)
018	1/4	1/2	66 ft. (20 m)	66 ft. (20 m)	98 ft. (30 m)
024	3/8	5/8	82 ft. (25 m)	82 ft. (25 m)	164 ft. (50 m)

AHRI CERTIFIED™
C
www.ahridirectory.org
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

LENNOX