

# **LENNOX 507783-03 Single Zone Mini Split Systems Instruction Manual**

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MLB/MPC Outdoor Units with MMDB Indoor Units SINGLE-ZONE MINI-SPLIT SYSTEMS (208/230V) 507783-03 09/2023 Supersedes 10/2021

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### 507783-03 Single Zone Mini Split Systems

THIS MANUAL MUST BE LEFT WITH THE OWNER FOR FUTURE REFERENCE



### WARNING

Improper installation, adjustment, alteration, ser vice or maintenance can cause property damage, personal injury or loss of life.

Installation and service must be performed by a li censed professional HVAC installer (or equivalent) or a service agency.



# WARNING

The clean Air Act of 1990 bans the intentional venting of refrigerant (CFCs, HCFCs, and HFCs) as of July, 1992. Approved methods of recovery, recycling or reclaiming must be followed. Fines and/or incarceration may be levied for non-compliance.



# **CAUTION**

As with any mechanical equipment, contact with sharp sheet metal edges can result in personal injury. Take care while handling this equipment and wear gloves and protective clothing.

### General

Refer to the Product Specifications bulletin (EHB) for more product information. These instructions are intended as a general guide and do not supersede local or national codes in any way. Authorities having jurisdiction should be consulted before installation.

The MMDB Medium-Static Ducted indoor units are matched with an outdoor heat pump unit to create a minisplit system that uses HFC-410A refrigerant.

### **Included Parts**

Package 1 of 1 contains the following:

# 1 – Assembled Indoor Unit

The assembled indoor unit will include the following items:

Parts	Figure	Quantity	Parts	Figure	Quantity
Non- Programm able Wired contr oller (M0STAT1 20L-1)	### C	1 ea.	Installation Instruct ion and wired contr oller user guide.	Manual	1 ea.
Wired controller extension cable 20 ft (6m)		1 ea.	Indoor Unit Display with 6-1/2 foot (2m ) extension cable		1 ea.
3/4" Drain Conn ector with two b and claps.		1 ea.			

# 1- Assembled Outdoor Unit and the following items:

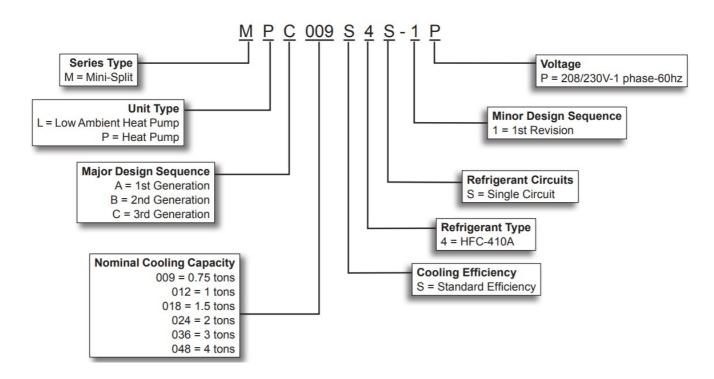
Parts	Figure	Quantity	Parts	Figure	Quantity
Drain connector		1 ea.	Seal ring		1 ea.

# Indoor / Outdoor Unit Match-Ups

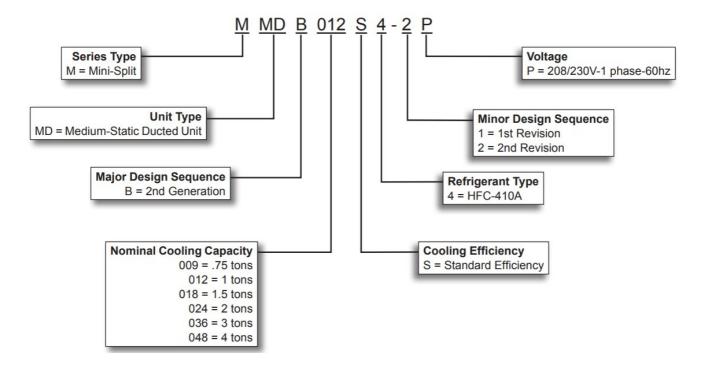
Outdoor Unit	Indoor Unit	Voltage
MPC009S4S-*P	MMDB009S4-*P	208/230V
MPC012S4S-*P	MMDB012S4-*P	208/230V
MPC018S4S-*P	MMDB018S4-*P	208/230V
MPC024S4S-*P	MMDB024S4-*P	208/230V
MPC036S4S-*P	MMDB036S4-*P	208/230V
MPC048S4S-*P	MMDB048S4-*P	208/230V
MLB009S4S-*P	MMDB009S4-*P	208/230V
MLB012S4S-*P	MMDB012S4-*P	208/230V
MLB018S4S-*P	MMDB018S4-*P	208/230V
MLB024S4S-*P	MMDB024S4-*P	208/230V
MLB036S4S-*P	MMDB036S4-2P	208/230V
MLB048S4S-*P	MMDB048S4-2P	208/230V

### **Model Number Identification**

# **OUTDOOR SINGLE ZONE HEAT PUMP UNITS**



### **MEDIUM-STATIC DUCTED INDOOR UNITS**



# **Typical System Components**

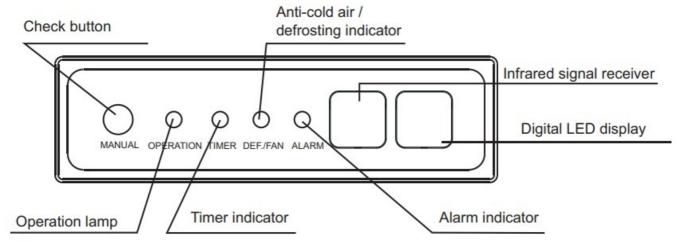
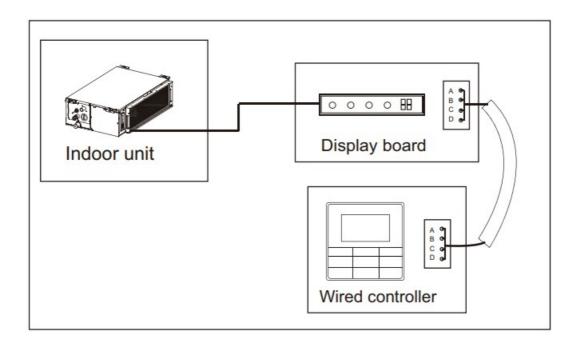


Table: Display panel output under normal operating conditions.

		Display output	Display output				
Unit state		Digital display panels					
		Unit state	Digital display				
Standby		Operation indicator flas hes slowly	88				
Shutting-down		All indicators off	88				
Operation	Normal operation	Operation indicator on	Cooling and heating modes: set temperature Fan only mode: indoor ambient temperature				
Operation	Cold draft prevention or outdoor unit defros ting operation	Operation and 0Anti-col d / defrosting indicators on	Set temperature				
A timer has bee	n set	Timer indicator on					



IMPORTANT – Condensate drain line must always be located at the bottom of the bundle.)

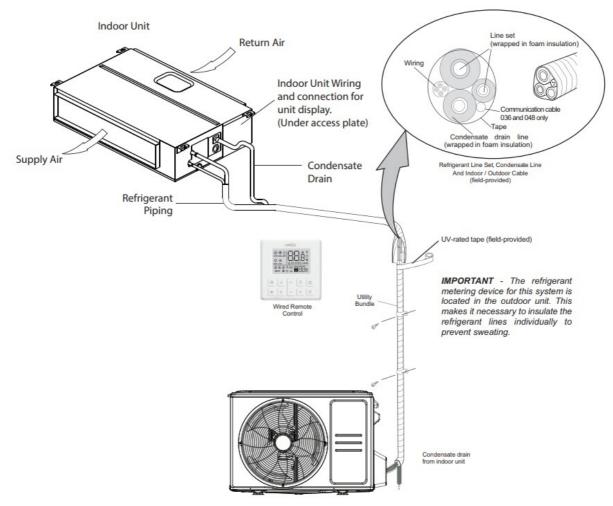


Figure 1. Typical System Shown

# **System Dimensions**

### **Outdoor Units**

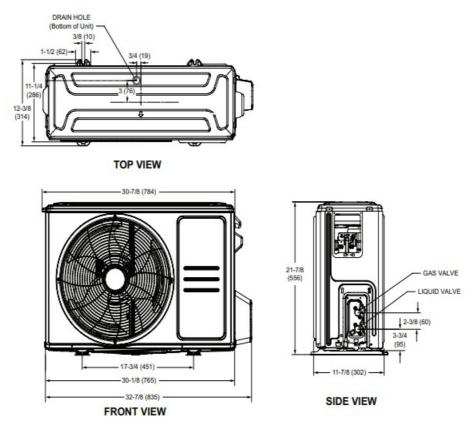


Figure 2. 208/230V - MPC009S4S and MPC012S4S Outdoor Unit Dimensions - Inches (mm)

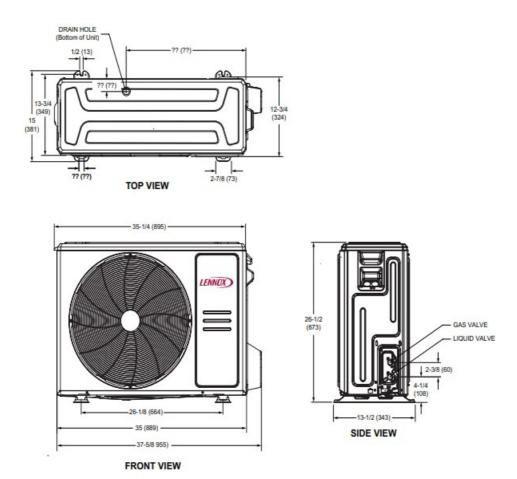


Figure 3. MPC018S4S Outdoor Unit Dimensions - Inches (mm)

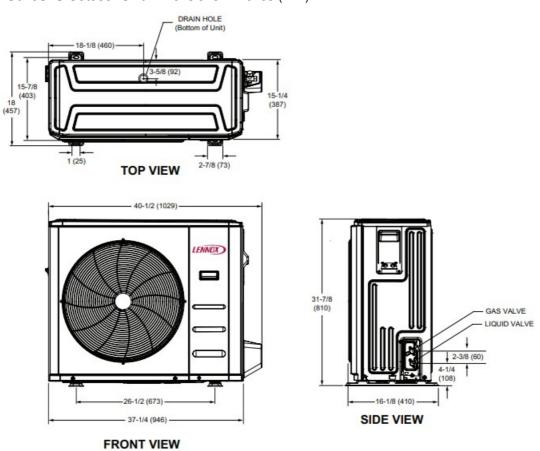


Figure 4. MPC024S4S Outdoor Unit Dimensions - Inches (mm)

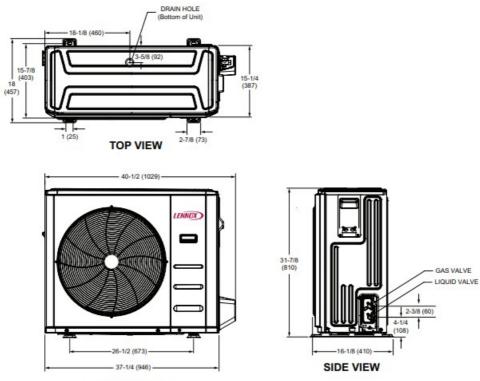


Figure 5. MPC036S4S Outdoor Unit Dimensions – Inches (mm)

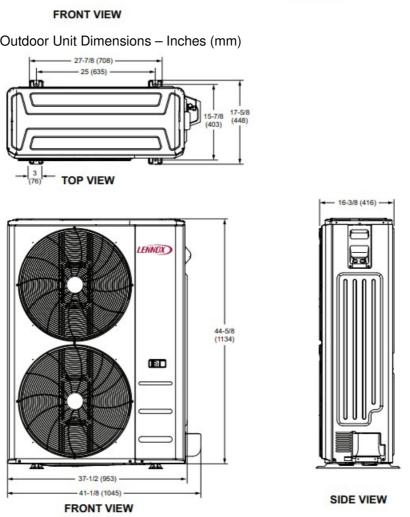


Figure 6. MPC048S4S Outdoor Unit Dimensions - Inches (mm)

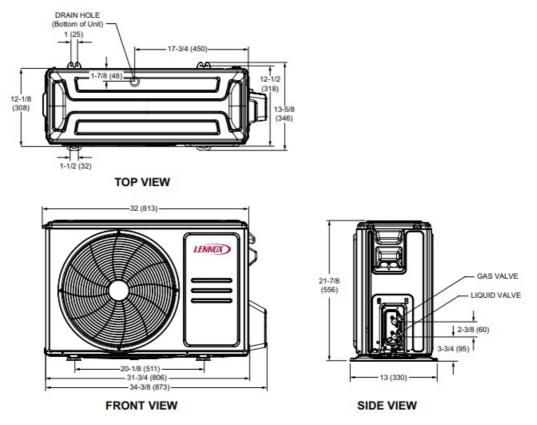


Figure 7. MLB009S4S and MLB012S4S Outdoor Unit Dimensions – Inches (mm)

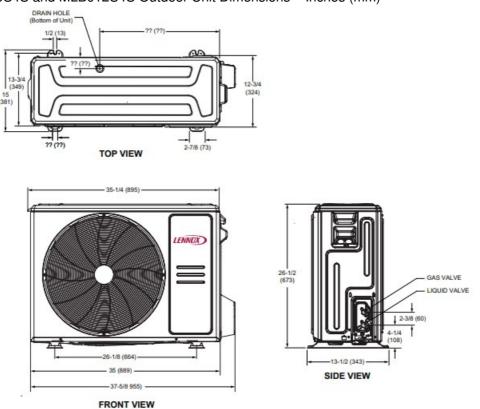


Figure 8. MLB018S4S Outdoor Unit Dimensions - Inches (mm)

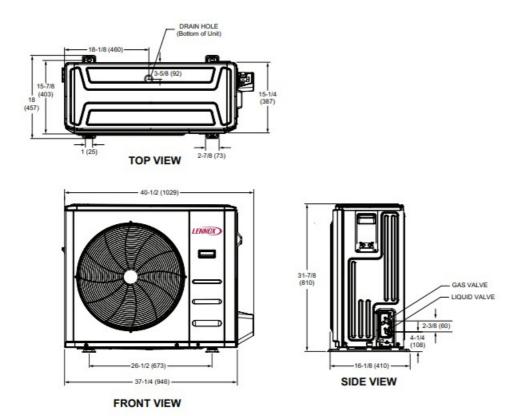
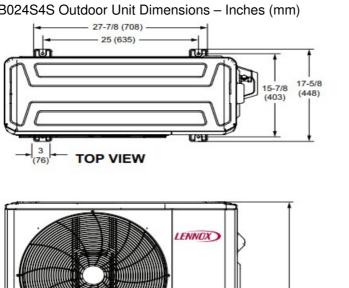


Figure 9. MLB024S4S Outdoor Unit Dimensions – Inches (mm)



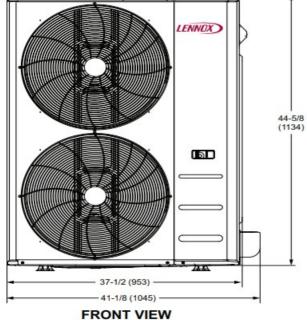
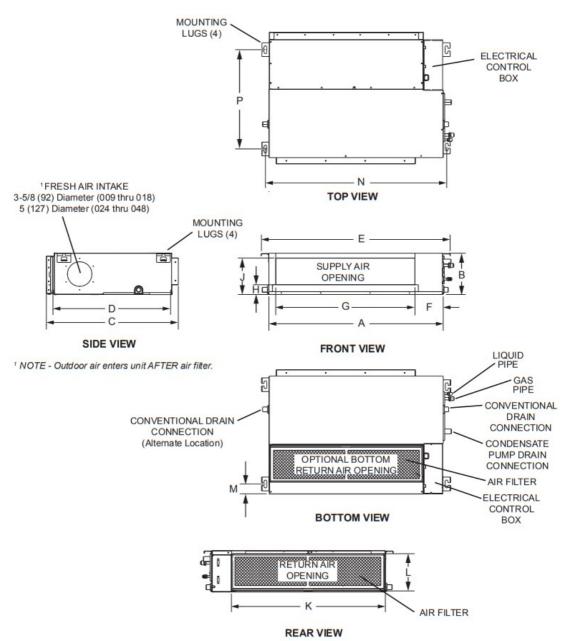




Figure 10. Outdoor Unit Dimensions (MLB036S4S-\*P, MLB048S4S-\*P) – Inches (mm)

# **MMDB Indoor Units**



Size	S: A		ВС		D E		F		G		Н					
Size	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
009 thru 012	27-5/8	702	7-7/8	200	19-7/8	505	17-3/4	451	30-3/4	781	5-3/8	137	21-1/8	537	1-1/8	29
018	34-5/8	879	8-1/4	210	26-1/2	673	23-5/8	600	37-7/8	962	5-1/2	140	27-3/4	705	2	51
024	43-1/4	1099	9-3/4	248	30-1/2	775	27-1/2	699	46-1/2	1181	5-1/2	140	36-1/2	927	2	51
036	53-1/2	1359	9-3/4	249	30-1/2	775	27-1/2	699	56-3/4	1441	5-1/2	140	46-3/4	1187	2	51
048	47-1/4	1200	11-7/8	302	34-3/8	873	31-1/2	800	50-1/2	1283	4-7/8	124	41-1/8	1045	2	51

Size	J		J K			L M		Л	N		P	
Size	in.	mm	in.	mm	in.	in. mm	in.	mm	in.	mm	in.	mm
009 thru 012	6	152	23-5/8	600	7-3/8	187	2	51	29-1/8	740	14-1/8	359
018	5-3/8	137	30-3/4	781	7-1/2	191	1-5/8	41	36-1/4	921	20	508
024	6-7/8	175	39-3/8	1000	9	229	1/4	6	44-7/8	1140	23-1/2	597
036	6-7/8	175	49-5/8	1260	9	229	1/4	6	55-1/8	1400	23-1/2	597
048	9	229	43-3/8	1102	11	279	1/4	6	48-7/8	1241	27-1/2	699

Figure 11. MMDB Indoor Ducted Unit Dimensions - Inches (mm)

# **System Clearances**

### **Outdoor Unit**

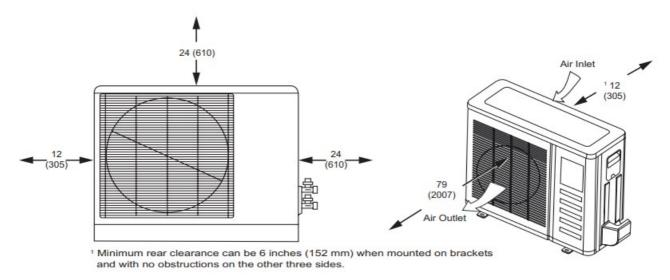


Figure 12. Outdoor Unit Clearances – Inches (mm)

### **IMPORTANT**

The construction of a canopy or shade is recommend when the outdoor unit is placed in direct sunlight all day with temperatures exceeding 100°F (38°C). This is necessary because of an ambient limit control set to 122°F (50°C) to protect the electronics. If the outdoor unit is placed in direct sunlight it is possible that the limit may activate and shut down the unit. A canopy is recommended.

### **Indoor Unit**

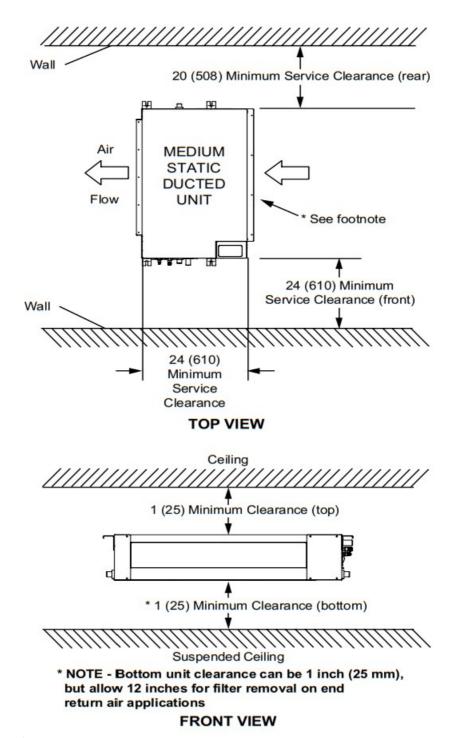


Figure 13. Indoor Unit Clearances – Inches (mm)

# **Torque Requirements for Caps and Fasteners**

When servicing or repairing HVAC components, ensure the fasteners are appropriately tightened. "Table 1. Torque Requirements" provides torque values for fasteners.

### **IMPORTANT**

Only use Allen wrenches of sufficient hardness (50Rc – Rockwell scale minimum). Fully insert the wrench into the valve stem recess.

Service valve stems are factory-torqued from 9 ft.-lbs. (12 N\*m) for small valves, to 25 ft.-lbs. (34 N) for large valves) to prevent refrigerant loss during shipping and handling. Using an Allen wrench rated at less than 50Rc risks rounding or breaking off the wrench, or stripping the valve stem recess. See the Lennox Service and Application Notes C-08-1 for further details and information.

### **Table 1. Torque Requirements**

Parts	Recommended Torque					
raits	U.S.	Newton-Meter- N				
Service valve cap	8 ftlb.	11				
Sheet metal screws	16 inlb.	2				
Machine screws #10	27 inlb.	3				
Compressor bolts	7 ftlb.	10				
Gauge port seal cap	8 ftlb.	11				

### Indoor Unit Installation



### CAUTION

In order to avoid injury, take proper precaution when lifting heavy objects.

# **Unit Placement Considerations AVOID**

Do not install the unit in the following locations:

- Areas exposed to petrochemicals or petrochemical products.
- Areas exposed to salt or other corrosive materials or caustic gases.
- Areas exposed to extreme voltage variations (such as factories.
- Tightly enclosed areas that may impede service of the unit.
- Areas exposed to fossil fuels (such as oil or gas in kitchens).
- Areas exposed to strong electromagnetic forces.
- Areas exposed to acids or alkaline detergents.

### DO

- Place the unit so that it is not exposed to direct sun- light.
- Ensure the structural ceiling can support the weight of the unit.
- Select a location where condensate line will have the shortest run to a suitable drain per local codes.
- Allow sufficient space around unit for proper operation and maintenance.
- Install unit a minimum of 3 feet (1m) away from any antenna, power cord (line) radio, telephone, security system, or intercom. Electrical interference and radio frequencies from any of these sources may affect operation.
- Be sure to instruct customers how to properly operate the unit (especially maintenance of air filter, and operation procedure) by having them carry out operations themselves while looking at the manual provided with the controller.

# Installation IMPORTANT

It is recommended that Medium Static Ducted Indoor Units not be installed in unconditioned spaces with temperatures above 100°F (38°C).

- 1. Make sure that the structural ceiling or slab is able to support the weight of the indoor unit. It may be necessary to add extra support.
- 2. Install suspension rods in the structural ceiling or concrete slab in a suitable location.

If the structural ceiling is constructed of concrete, install anchors to accept four %" threaded rods to suspend the indoor unit. If the structural ceiling includes wooden joists, use angle iron or Unistrut channel fixed securely in place to accept the %" threaded rods.

**NOTE:** Threaded rod is the ONLY acceptable method of suspending the unit; do not use chains or straps. See "Figure 14. Suspending Methods".

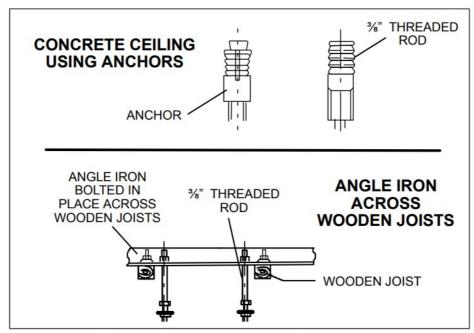


Figure 14. Suspending Methods

- 3. Slide one nut and one washer onto each threaded rod. Use electrical tape to keep the washer from failing off. Position the nuts slightly above the final resting place of the four suspension brackets. See Figure 15. Suspending Hardware
- 4. Use either a mechanical lifting device or a minimum of two people to raise the unit and insert the threaded rods into the suspension brackets on the unit chassis. Slide a washer and then a nut onto each rod below each suspension bracket. Use the leveling nut (beneath suspension bracket) to adjust the unit to the correct height. Remove the electrical tape holding the upper washers and nuts in place and tighten each of the four nuts above the brackets down onto the brackets. This will ensure that the unit remains level.

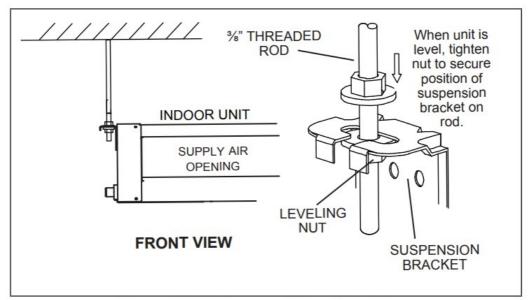


Figure 15. Suspending Hardware

- 5. If necessary, install a field-provided isolation grommet as shown in "Figure 16. Isolation Grommet" to prevent transmission of vibration from unit to structural ceiling.
- 6. If the unit is being installed in an application that includes a sheet rock (plasterboard) ceiling, it is required that an access panel be installed in a suitable location. This will also allow access for future maintenance. Access is required during the start up process to test the condensate disposal system. See "Figure 21. Condensate Drain Test" on page 15.
- 7. The unit is factory-configured for the supply air to be delivered from the front and the return air filter at the rear of the unit. The return air filter location can be relocated in the field for bottom return air filter access, if more convenient. See "Figure 16. Isolation Grommet".

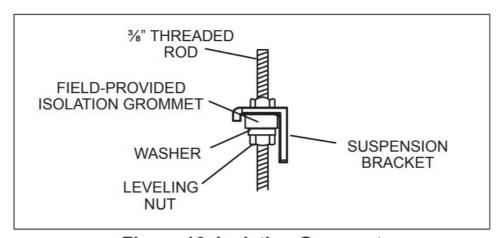


Figure 16. Isolation Grommet

**NOTE:** No part of the suspended ceiling, or other supports not directly associated with the indoor unit installation, can be fixed to, or touch the indoor unit, in any form. Minimum clearances must be observed at all times.

### **Installation Guidelines**

- Provide separate support for the weight of the duct system. Duct system must not be supported by the indoor
  unit.
- Use flexible joints (canvas) at the point where the duct connects to the unit on both ends. Material must meet all local and national code requirements.
- When unit is being installed in a location where even the slightest noise would be a problem (meeting room or

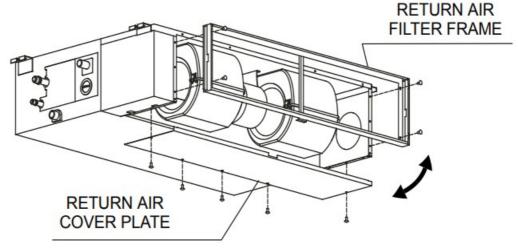
other very quiet space), design duct system to avoid transmission of vibration to the structure to the extent possible.

• Follow ACCA manual D guidelines for return air filter grille sizing. The return air filter grille should have a minimum surface area of 200 square inch per ton (1290 cm2 per 3.5kW).

### Field-Relocation of Return Air Filter

Depending on installation requirements, the return air filter may need to be relocated as a bottom return air. See "Figure 17. Field-Relocation of Return Air Filter (Typical) – Bottom Return Air" on page 13 for field-relocating the return air filter.

Remove the return air filter from its existing location at the rear of the unit.
 Remove the screws that secure the filter frame to the rear of the unit and set the frame aside.
 Remove the screws that secure the return air cover plate to the bottom of the unit. Set the cover plate aside.



2. Re-install the return air filter in the repositioned filter frame in the bottom of the unit. Refer to the arrows in the illustration below.

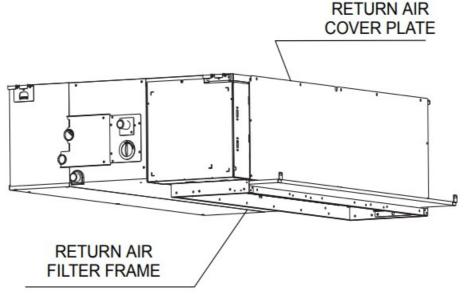


Figure 17. Field-Relocation of Return Air Filter (Typical) - Bottom Return Air

# **Indoor Unit Condensate Piping Connections IMPORTANT**

Make sure that drain piping is properly routed and insulated to prevent both leaks and condensation.

1. Use a field-provided hose clamp to secure the drain line stub on the side of the unit chassis to a fieldsupplied 1" (25 mm) drain line.

**NOTE:** Take care not to over-tighten the hose clamp as this may damage the drain line stub.

**NOTE:** Connection between stub and drain line must be watertight. Apply non hardening plumbing joint compound if needed to ensure a watertight seal.

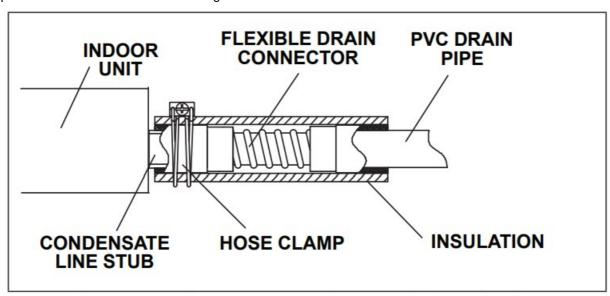


Figure 18. Condensate Gravity Drain Option

**NOTE:** If using the gravity drain you must cap the condensate pump drain to prevent condensate from exiting if the gravity drain gets restricted, or disconnect the built-in pump from operating if using gravity connection.

2. For applications including an indoor unit and a gravity drain. In this case, ensure that the drain line is properly sloped (no less than 1/4 inch per foot (18 mm per m)) and condensate lines are routed to ensure moisture is drained away from the indoor unit.

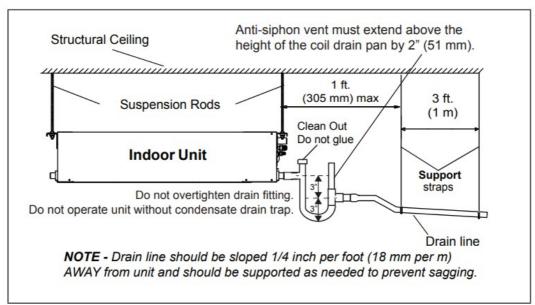


Figure 19. Slope Condensate Drain

3. For applications including an indoor unit using the internal drain pump.

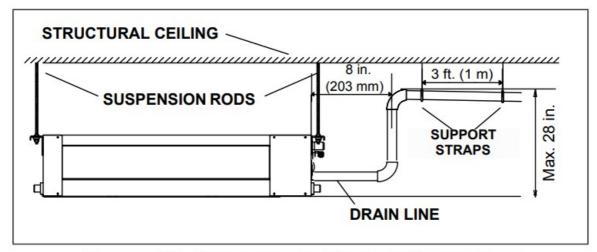


Figure 20. Condensate Drain with Factory Condensate Pump

4. In all cases, drain should be as short as possible and should not have any droops or kinks that would restrict condensate flow and shall be constructed using an approved pipe. There must be a 2-inch (51 mm) space between the end of the condensate drain and the final termination point (ground, open drain, etc.) to ensure that the line will drain freely.

### **IMPORTANT**

Drain should have a slope of at least ¼ inch per foot and should be approved corrosion-resistant pipe. You must confirm operation of every drain and pump in the system as part of the commissioning procedure.

- 5. After system installation is complete, the condensate drain line must be checked for leaks and the condensate pumps must be checked to ensure proper operation. This check is part of the start-up process which must be done by the installing contractor. Turn the condensate drain pan test cover latch counterclockwise to open the cover and access the drain pan. Funnel enough water to engage the pump into the drain pan through a flexible tube.
- 6. Operate the system in the cooling mode. If the internal pump is being used, ensure that the pump is operating and the water in the pan is draining freely. If the internal pump is not being used, pour the water into the drain pan and confirm that it has flowed freely out of the pan and out of the drain termination. If a leak is found, shut down power to the unit at once and do not restore power to the unit until the problem has been resolved.
- 7. Return the test cover and turn the latch clockwise to re-lock it.

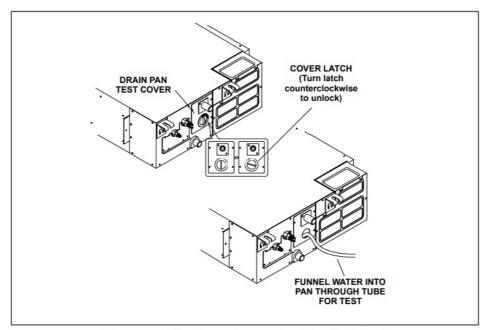


Figure 21. Condensate Drain Test

### **Outdoor Unit Installation**



**CAUTION** 

In order to avoid injury, take proper precaution when lifting heavy objects.

### **Placement Considerations**

Consider the following when positioning the unit:

- In coastal areas or other places with salty atmosphere of sulfate gas, corrosion may shorten the life of the unit. In coastal areas, the coil should be cleaned with potable water several times per year to avoid corrosive buildup (salt).
- Some localities are adopting sound ordinances based on the unit's sound level registered from the adjacent property, not from the property where the unit is installed. Install the unit as far as possible from the property line.
- When possible, do not install the unit directly outside a window. Glass has a very high level of sound transmission.
- · Install unit level.

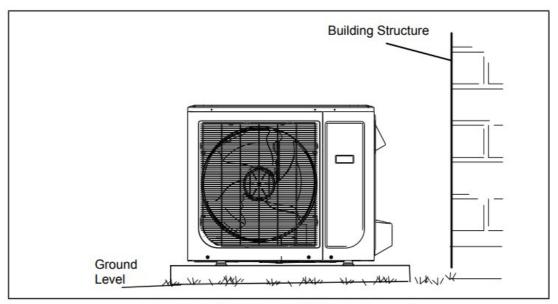


Figure 22. Install Unit Level

- Choose a place solid enough to bear the weight and vibration of the unit, where the operation noise will not be amplified.
- Choose a location where the hot air discharged from the unit or the operation noise will not be a nuisance to neighbors.
- Avoid installing the outdoor unit near a bedroom or other places where noise may cause a problem.
- There must be sufficient space to carry the unit into and out of the site.
- There must be unobstructed air flow around the air inlet and the air outlet.
- The unit must not be installed in areas where a flammable gas leak may occur.
- Install the outdoor unit a minimum of 3 feet (1m) away from any antenna, power cord (line), radio, telephone, security system, or intercom. Electrical interference and radio frequencies from any of these sources may affect operation.
- Since water drains from the outdoor unit during various stages of operation, do not place anything which may be damaged by moisture under the unit.

### Direct Sunlight, Rain, Snow and Ice Protection

• If the outdoor unit is subjected to prolong exposure to direct sunlight with temperatures over 100°F (38°C) a canopy is recommended as illustrated in Figure 23. Outdoor Unit on Pedestal (Stand) and Protective Canopy or "Figure 28. Dog House-Style Shelter" on page 17.

### **IMPORTANT**

The construction of a canopy or shade is recommended because of an ambient limit control set to 122°F (50°C) to protect the electronics. If the outdoor unit is placed in direct sunlight it is possible that the limit may activate and shut down the unit.

- Place unit away from overhanging roof lines which would allow water or ice to drop on, or in front of, coil or into unit. Construct a canopy as illustrated in "Figure 23. Outdoor Unit on Pedestal (Stand) and Protective Canopy".
- The unit base should be elevated above the depth of average snows as illustrated in "Figure 24. Outdoor Unit on Brackets above Snow Line".
- In heavy snow areas, do not place the unit where drifting will occur as illustrated in "Figure 25. Outdoor Unit Air Flow Obstructed by Snow".
- Carefully consider how to manage defrost water disposal to prevent ice from blocking walkways or creating a

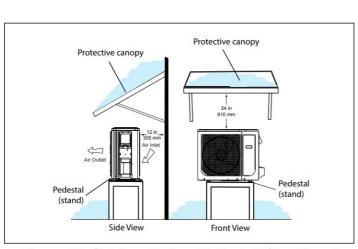


Figure 23. Outdoor Unit on Pedestal (Stand) and Protective Canopy

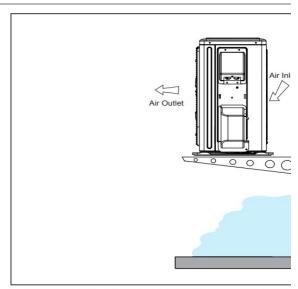


Figure 24. Outdoor Unit on Brackets
Line

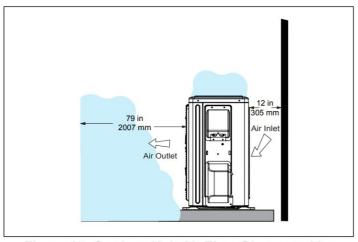


Figure 25. Outdoor Unit Air Flow Obstructed by Snow

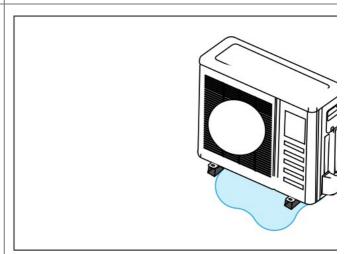


Figure 26. Avoid Defrost Wate

### **Prevailing Winds**

recommended.

Normally wind baffles are not required for a outdoor unit.

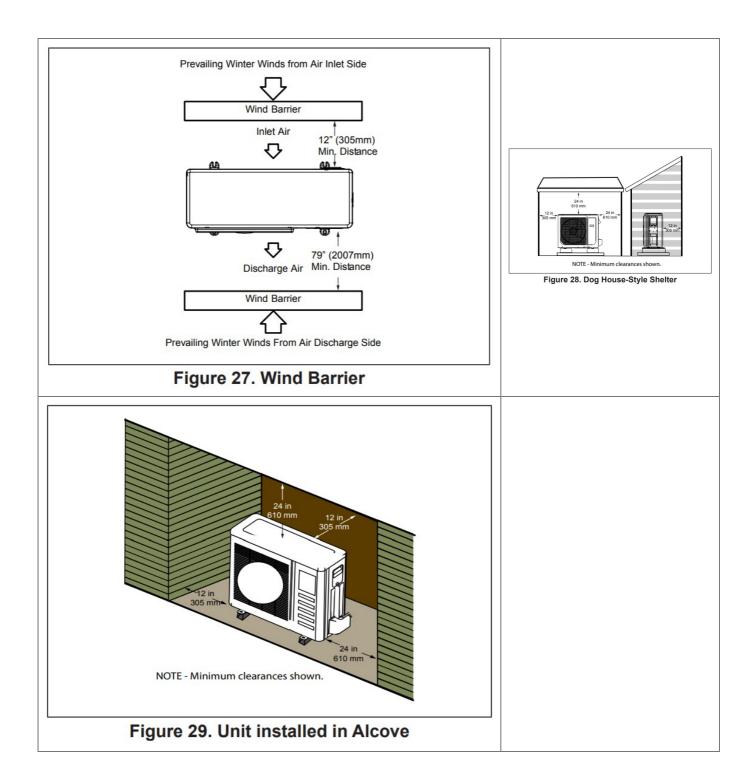
However, in order to maximize reliability and performance, the following best practices should be followed. If unit coil cannot be installed away from prevailing winter winds, some method of protecting the coil is

However, minimum clearances as reference in "Figure 12.

Outdoor Unit Clearances - Inches (mm)" on page 11 must be observed at all times.

Common application examples are:

- When prevailing winds are from the air inlet side, then position the wind barrier a minimum of 12 inches (305 mm) from the unit as illustrated in "Figure 27. Wind Barrier".
- When prevailing wind is into the discharge side, then position the wind barrier a minimum 79 inches (2007 mm) from the front of the unit as illustrated in "Figure 27. Wind Barrier".
- Outdoor unit can be installed in a dog house style shelter as illustrated in "Figure 28. Dog House-Style Shelter".
- Outdoor unit can be installed in a alcove or under a roof overhang as illustrated in "Figure 29. Unit installed in Alcove".



### **Buried Refrigerant Pipe Protection**

- All refrigerant lines must be insulated regardless of if it is buried.
- In addition to insulating each line of piping, buried lines must rest inside a sealed, watertight conduit.
- The conduit must be designed so it cannot collect and retain water.

### **Condensate Piping**

Condensate formed during the heating and defrost processes must be drained from heat pump units. Drain holes are provided in the base of the units to ensure proper drainage. Heat pumps must be raised when installed on a concrete pad or the ground to allow drainage to occur. If the heat pump unit is installed on wall mounting bracket, insert the provided drain connector into one of the 1 inch (25 mm) drain holes and attached a field-provided insulated drain hose to the connector. Use field-provided rubber plugs to cover any unused drain holes (see "Figure 30. Condensate Drain" on page 17).

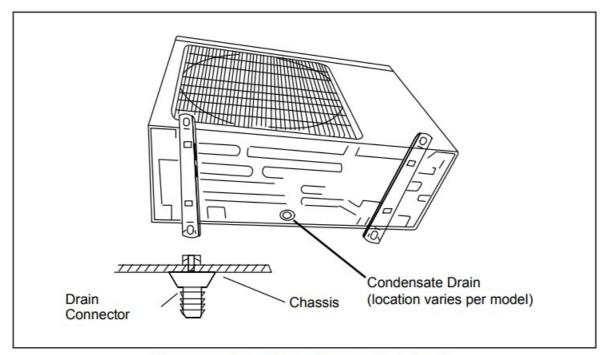


Figure 30. Condensate Drain

# Securing the Outdoor Unit Slab or Roof Mounting

Install the unit a minimum of 4 inches (102 mm) above the roof or ground surface to avoid ice build-up around the unit. Place the unit above a load bearing wall or area of the roof that can adequately support the unit. Consult local codes for rooftop applications.



This system contains both refrigerant and oil. Some rubber roofing material may absorb oil. This will cause the rubber to swell when it comes into contact with oil.

The rubber will then bubble and could cause leaks.

Protect the roof surface to avoid exposure to refrigerant and oil during service and installation. Failure to follow this notice could result in damage to roof surface.

### Securing Outdoor Unit to Slab, Frame, or Rails

If the outdoor unit is installed on a field-provided slab or frame, use lag bolts or equivalent to secure the outdoor unit to the slab or frame.

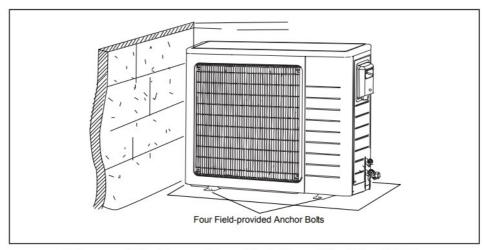


Figure 31. Securing Outdoor Unit to Slab

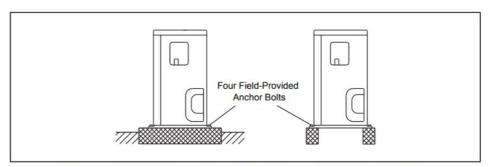


Figure 32. Securing Outdoor Unit to Rails

# **Securing Outdoor Unit To Hanging Brackets**

If the outdoor unit is installed on field-provided wall mounting brackets, use lag bolts or equivalent to secure the outdoor unit to the bracket. Minimum rear clearance can be reduced to 6 inches (152 mm) when mounted on brackets and with no obstructions on the other three sides. Allow for condensate disposal when placing units above one another.

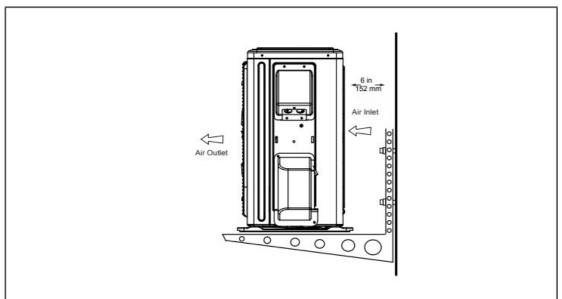


Figure 33. Securing Outdoor Unit to Brackets

# **Refrigerant Piping Connections**

Field piping consists of two copper lines connecting the outdoor unit to the indoor unit. "Table 3. Refrigerant Piping and Indoor Unit Connection Sizes" on page 19 lists the connection sizes. The connections are made using the provided brass flare nuts at the end of the refrigerant piping connections.

1. Choose the correct pipe sizes for your application using "Table 3. Refrigerant Piping and Indoor Unit

Connection Sizes" on page 19.

- 2. Confirm that you are using the correct diameter piping.
- 3. Determine the necessary piping length required for the application.
- 4. Cut the selected pipes with a pipe cutter. Make the cuts flat and smooth as illustrated in "Figure 34. Cutting Pipe".

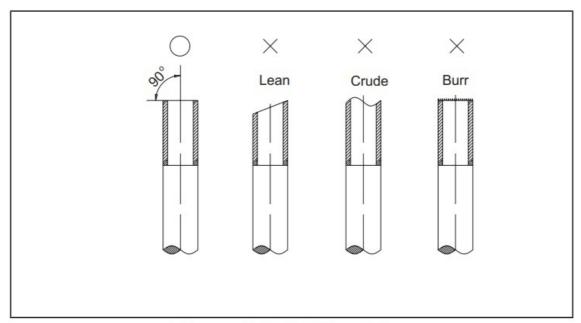


Figure 34. Cutting Pipe

- 5. Insulate the copper piping.
- 6. Insert a flare nut onto each pipe before flaring.
- 7. Use "Table 2. Flaring Piping" to properly flare the pipe.

**Table 2. Flaring Piping** 

Pipe Diameter	Flare Dimension	on A (mm)	- Flare Shape
ripe Diameter	Min	Max	- Flare Shape
1/4" (6.35)	8.3	8.7	90°±4
3/8" (9.62)	12.0	12.4	450
1/2" (9.52"	15.4	15.8	A
5/8" (15.9)	18.6	19.1	
3/4" (22.9)	22.9	23.3	R0.4~0.8

8. After flaring the pipe, temporarily sealed pipe ends with adhesive tape to avoid contaminants from entering the pipes.

- 9. The seal on the unit refrigerant piping connections should remain in place until the last possible moment. This will prevent dust or water from getting into the refrigerant piping before it is connected.
- 10. CAREFULLY adjust refrigerant piping connections to suit the application.
- 11. Slowly loosen one of the flare nuts to release the factory nitrogen charge from the indoor units only.
- 12. Remove the flare nuts from the connections on the unit and discard the seal from each of the piping connections.
- 13. Slide the flare nuts onto the ends of the field-provided refrigerant piping before using a suitable flaring tool to flare the end of the copper pipe.
- 14. Apply recommended HFC-410A refrigerant lubricant to the outside of the flared refrigerant lines.

#### **IMPORTANT**

The compressor in this unit contains PVE oil (Polyvinylether). PVE oil is formulated for hydrofluorocarbon (HFC) refrigerants, such as HFC410A, which this system contains. While it may have some miscibility properties with mineral-based oil and POE oil (Polyolester), it is not recommended to mix PVE oil with any other type of refrigerant oil.

15. Align the threaded connections with the flared refrigerant lines. Tighten the flare nuts lightly at first to obtain a smooth match as illustrated in "Figure 35. Making Connections (Male to Female Connection)".

**Table 3. Refrigerant Piping and Indoor Unit Connection Sizes** 

Size (Btuh)	Liquid Line in.	Gas Line in.
9000	1/4	3/8
12000	1/4	1/2
18000	1/4	1/2
24000	3/8	5/8
36000 & 48000	3/8	5/8

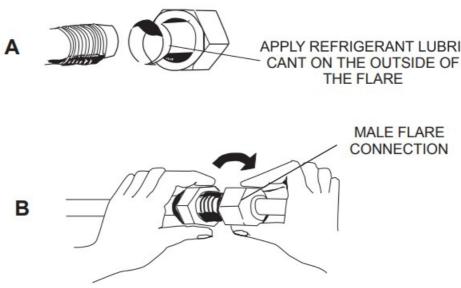


Figure 35. Making Connections (Male to Female Connection)

16. Once snug, continue another half-turn on each nut which should create a leak-free joint. A torque wrench may be used to tighten flare nuts using table 4 recommendations ("Table 4. Flare Nut Torque Recommendations and Tightening Procedure" on page 19). Do not over-tighten a flared joint. Flared connections should always be

accessible and must be insulated to prevent condensation.

17. After refrigerant piping has been installed and checked for leaks, apply insulation over all flared connections.

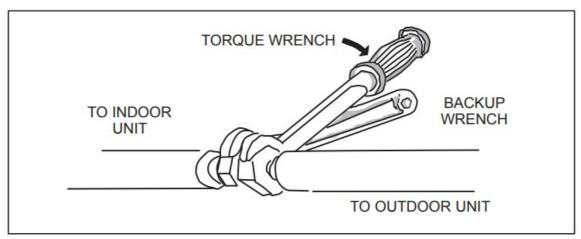
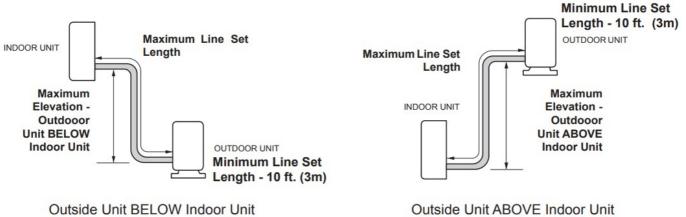


Figure 36. Tighten Flare Nut

**Table 4. Flare Nut Torque Recommendations and Tightening Procedure** 

Outside Diameter Inches	Recommended Torque	No torque wrench available Finger tighten and use an appropriately sized wrench to tur n an additional:
1/4	15 ftlb. (20 N)	1/4 turn
3/8	26 ftlb. (35 N)	1/2 turn
1/2	41 ftlb. (56 N)	7/8 turn
5/8	48 ftlb. (65 N)	1 full turn

**Table 5. Refrigerant Line Set Requirements** 



### **IMPORTANT**

Do not allow for excess length of line sets to be left rolled up as part of the required distance, or in general. This will also cause additional performance issues.

Each system size has a line set length and vertical elevation parameters.

	Line Set Diamete	ers (in.)	Maximum Elevation Outd	Maximum Eleva	Maximum Line
System Size ( KBtu)	Liquid	Gas	oor Unit BELO W Indoor Unit – Feet (Meter)	nit ABOVE Indo or Unit – Feet ( Meter)	Set Length – Fe et (Meters)
009	1/4	3/8	33 (10)	33 (10)	82 (25)
012	1/4	1/2	33 (10)	33 (10)	82 (25)
018	1/4	1/2	66 (20)	66 (20)	98 (30)
024	3/8	5/8	82 (25)	82 (25)	164 (50)
036/048	3/8	5/8	98 (30)	98 (30)	213 (65)

### **Leak Test and Evacuation**

Air and moisture remaining in the refrigerant system will have undesirable effects as indicated below:

- Pressure in the system rises.
- · Operating current rises.
- · Cooling or heating efficiency drops.
- Moisture in the refrigerant circuit may freeze.
- Water may lead to corrosion of parts in the refrigeration system.

The line set between the indoor and outdoor units must be leak tested and evacuated to remove any non-condensables and moisture from the system.

### **Leak Test**

Use the following procedure to test for system leaks:

- 1. Connect the manifold gauge set and dry nitrogen gas cylinder to the liquid and gas service ports.
- 2. Open valve on nitrogen cylinder.
- 3. Pressurize the system per the pressure test specifications in "Table 6. Pressure Test Specifications"
- 4. Check that the system pressure remains stable. If there is any movement check system for leaks.
- 5. After the system is found to be free of leaks:
- · Close valve on nitrogen cylinder.
- Relieve the nitrogen pressure by: loosening the charge hose connector at the nitrogen cylinder.
- When the system pressure is reduced to normal, disconnect the hose from the cylinder.

# **Table 6. Pressure Test Specifications**

	Bar	Psig	kPa	Duration
1	3	44	303	Minimum of 10 minutes
2	15	220	1517	Minimum of 10 minutes
3	32	470	3241	Minimum of 10 minutes
4	45	650	4482	1 hour. Stress test to prove the integrity of the complete installatio n.
5	32	470	3241	24 hours. Lower system pressure test, after confirmation No. 4 was successfully completed.

### **Triple Evacuation Procedure**

A Micron or Torr gauge must be used for this procedure.

- 1. Discharge the oxygen-free nitrogen and evacuate the system to a reading of 8000 Microns (8 Torr) using all service valves.
- 2. Break the vacuum by allowing nitrogen into the port connections (liquid and gas line pipes) until a positive pressure is achieved.
- 3. Evacuate the system to a reading of 5000 Microns (5 Torr).
- 4. Break the vacuum by allowing nitrogen into the port connections (liquid and gas line pipes) until a positive pressure is achieved.
- 5. Evacuate the system to a minimum reading of 500 Microns (0.5 Torr).
- 6. For a moisture-free system, ensure the vacuum is held without movement for a minimum of 4 hours.
- 7. If vacuum fails to hold, carry out steps 2 through 6 until vacuum holds.

### Wiring Connections



### WARNING

Electric Shock Hazard. Can cause injury or death. Unit must be rounded in accordance with national and local codes.

Line voltage is present at all components when unit is not in operation. Disconnect all remote electric power supplies before opening access panel. Unit may have multiple power sources.

### **IMPORTANT**

All diagrams are typical wiring diagrams. Refer to the wiring diagram on the unit for actual wiring.



### CAUTION

All terminal connections must be made as illustrated in the following diagrams. Improperly connected wiring could damage unit or cause communication errors between indoor and outdoor units.

In the U.S.A., wiring must conform with current local codes and the current National Electric Code (NEC). In Canada, wiring must conform with current local codes and the current Canadian Electrical Code (CEC).

### **Outdoor Unit**

- Refer to unit nameplate for minimum circuit ampacity and maximum over-current protection size.
- Make all electrical power wiring connections at the out- door unit.
- Be sure to reattach all electrical box covers after con- nections are complete.

### **Indoor Unit**

- All indoor units are powered by the outdoor unit.
- See wiring diagrams for specific wire size requirements based on unit sizes.
- When installing a condensate pump, wire in-line with the CN5 float switch.

### **IMPORTANT**

This unit must be properly grounded and protected by a circuit breaker. The ground wire for the unit must not be connected to a gas or water pipe, a lightning conductor or a telephone ground wire.

Do not connect power wires to the outdoor unit until all other wiring and piping connections have been completed. Do not install the unit near a lighting appliance that includes a ballast. The ballast may affect remote control operation.

# **Wiring Requirements**

**Table 7. Single Zone Installation Wiring Requirements** 

Systems and Termi nal Designations	System Capacity	System Voltage	Number of Con ductors	Wire Type	Wire Gauge / M CA
Indoor to Outdoor W iring (Communicatio n/Power) 1, 2, 3 and GND	12K	115VAC	4	Stranded a nd unshielde d	16AWG
Outdoor to Main Po wer L, N and GND	12K	115VAC	3		14AWG / 19A
Indoor to Outdoor W iring (Communicatio n/Power) 1, 2, 3 and GND	06K, 09K and 1 2K	208/230VAC	4		16AWG
Outdoor to Main Po wer L1, L2 and GND	09K and 12K	208/230VAC	3		16AWG / 13A
Indoor to Outdoor W iring (Communicatio n/Power) 1, 2, 3 and GND	18K	208/230VAC	4		16AWG
Outdoor to Main Po wer L1, L2 and GND	18K	208/230VAC	3		14AWG / 17A
Indoor to Outdoor W iring (Communicatio n/Power) 1, 2, 3 and GND	24K	208/230VAC	4		16AWG
Outdoor to Main Po wer L1, L2 and GND	24K	208/230VAC	3		12AWG / 22A
Indoor to Outdoor W iring (Communicatio n/Power) 1, 2, 3 and GND	30K	208/230VAC	4		16AWG
Outdoor to Main Po wer L1, L2 and GND	30K	208/230VAC	3		12AWG / 23A
MCA = Minimum Circu	uit Amps	1	1	1	I

**Indoor Unit Control Board Wiring Connections** 

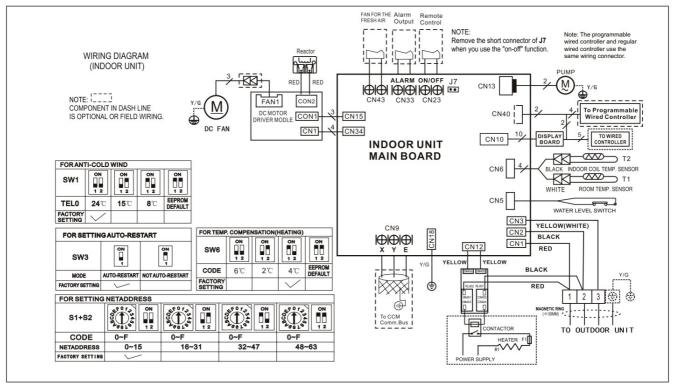


Figure 37. MMDB009S4-\*P, MMDB012S4-\*P, MMDB018S4-\*P and MMDB024S4-\*P Ducted Units Wiring Diagram

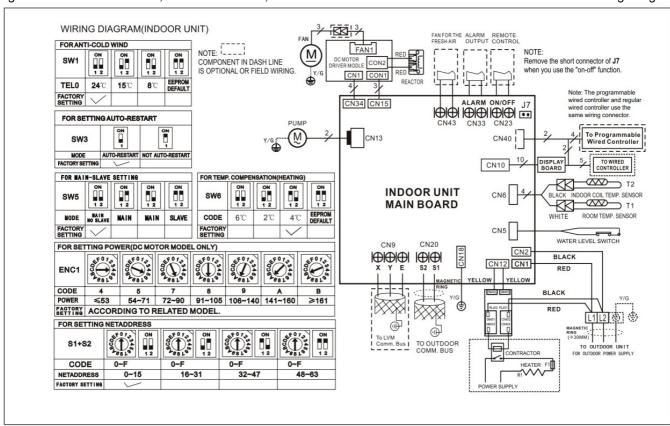
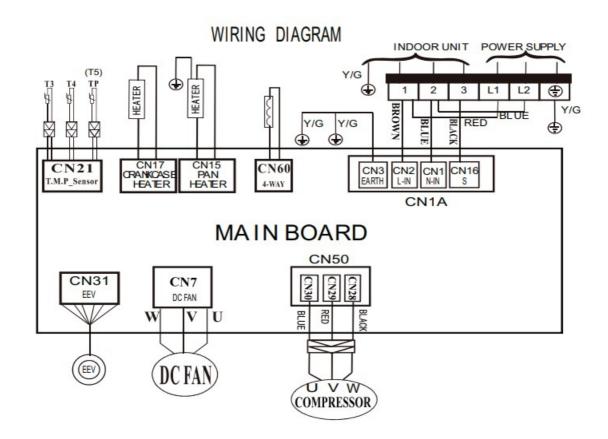


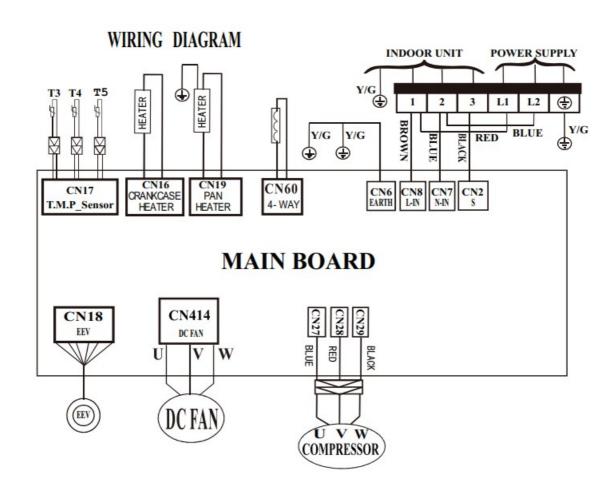
Figure 38. MMDB036S4-\*P and MMDB048S4-\*P Ducted Units Wiring Diagram

### **Outdoor Unit Control Board Wiring Connections**



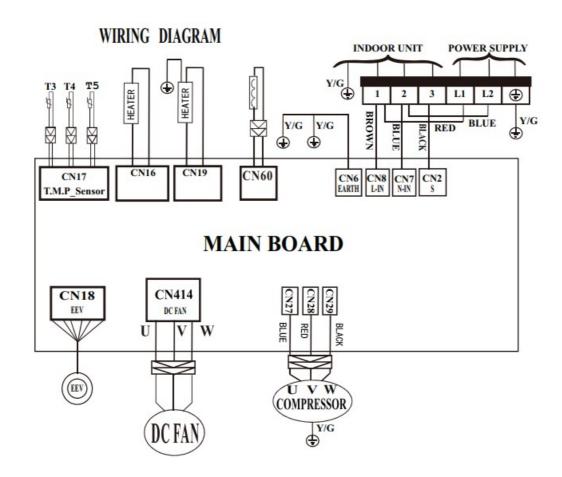
Т3	Condenser	ТЕМР	Sensor
T4	Ambi ent	TEMP.	Sensor
T5	Di scharge	TEMP.	Sensor
CN31	OUTPUT	230V	AC
CN1A	INPUT	0~12VD	DC
CN7	OUTPUT	0~310V	AC
CN60	OUTPUT	230V	AC
CN21	OUTPUT	0~5V	DC
CN15	OUTPUT	230V	AC
CN17	OUTPUT	230V	AC
CN50	OUTPUT	0~310V	AC

Figure 39. 208/230V MPC009S4S-\*P and MPC012S4S-\*P Outdoor Unit Wiring Diagram



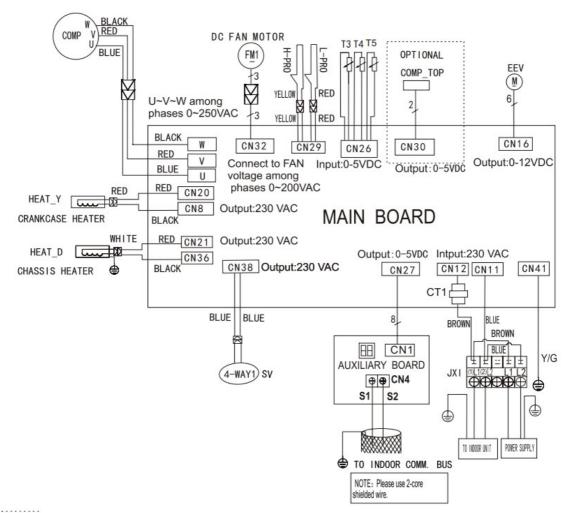
Т3	Condenser	TEMP.	Sensor
T4	Discharge	TEMP.	Sensor
T5	Ambient	ТЕМР.	Sensor
CN2 7/8	INPUT	230V	AC
CN18	OUTPUT	0~12V	DC
CN414	OUTPUT	0~310V	AC
CN60	OUTPUT	230V	AC
CN17	OUTPUT	0~5V	DC
CN16	OUTPUT	230V	AC
CN19	OUTPUT	230V	AC
CN27/28/29	OUTPUT	0~310V	AC

Figure 40. 208/230V MPC018S4S-\*P Outdoor Unit Wiring Diagram



Т3	Condenser	ТЕМР.	Sensor
T4	Discharge	TEMP.	Sensor
T5	Ambient	ТЕМР.	Sensor
CN2 7/8	INPUT	230V	AC
CN18	OUTPUT	0~12V	DC
CN414	OUTPUT	0~310V	AC
CN60	OUTPUT	230V	AC
CN17	OUTPUT	0~5V	DC
CN16	OUTPUT	230V	AC
CN19	OUTPUT	230V	AC
CN27/28/29	OUTPUT	0~310V	AC

Figure 41. 208/230V MPC024S4S-\*P Outdoor Unit Wiring Diagram

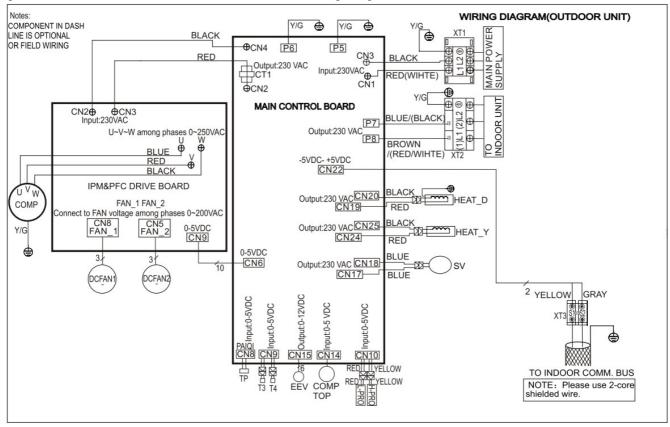


Notes:

COMPONENT IN DASH LINE IS OPTIONAL OR FIELD WIRING

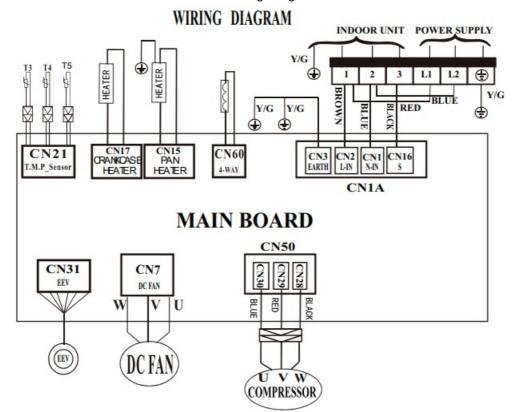
СОМЕ	PART NAME
JXI	TERMINAL BLOCK
COMP TOP	COMP. TOP OLP TEMP. SENSOR
EEV	ELECTRIC EXPANSIVE VALVE
FM1	DC FAN MOTOR
COMP	COMPRESSOR
HEAT_Y	CRANKCASE HEATER
CT1	AC CURRENT DETECTOR
H-PRO	HIGH PRESSURE SWITCH
L-PRO	LOW PRESSURE SWITCH
SV	REVERSE VALVE
T5	COMP. DISCHARGE TEMP. SENSOR
Т3	COIL TEMP. SENSOR
T4	OUTDOOR AMBIENT TEMP. SENSOR
HEALD	CHASSIS HEATER

Figure 42. 208/230V MPC036S4S-\*P Outdoor Unit Wiring Diagram



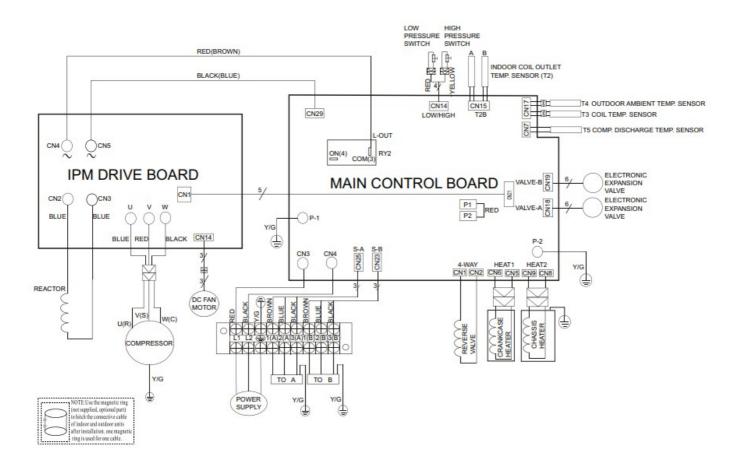
CODE	PART NAME
СОМР	COMPRESSOR
CT1	AC CURRENT DETECTOR
EEV	ELECTRONIC EXPANSION VALVE
DCFAN1 DCFAN2	OUTDOOR DC FAN MOTOR
HEAT_D	CHASSIS HEATER
HEAT_Y	CRANKCASE HEATER
H-PRO	HIGH PRESSURE SWITCH
L-PRO	LOW PRESSURE SWITCH
SV	REVERSE VALVE
ТР	COMP. DISCHARGE TEMP. SENSOR
Т3	COIL TEMP. SENSOR
T4	OUTDOOR AMBIENT TEMP. SENSOR
COMP TOP	COMP. TOP OLP TEMP. SENSOR

Figure 43. 208/230V MPC048S4S-\*P Outdoor Unit Wiring Diagram



Т3	Condenser	ТЕМР.	Sensor
T4	Discharge	TEMP.	Sensor
T5	Ambient	TEMP.	Sensor
CN1A	INPUT	230V	AC
CN31	OUTPUT	0~12V	DC
CN7	OUTPUT	0~310V	AC
CN60	OUTPUT	230V	AC
CN21	OUTPUT	0~5V	DC
CN15	OUTPUT	230V	AC
CN17	OUTPUT	230V	AC
CN50	OUTPUT	0~310V	AC

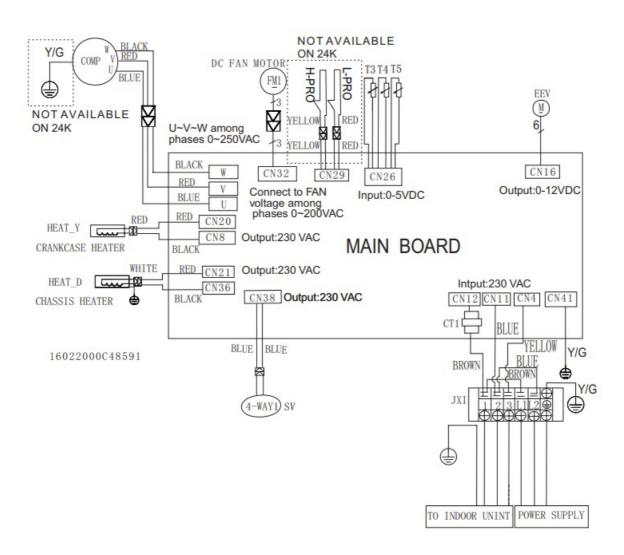
Figure 44. 208/230V MLB009 and MLB012-\*P Outdoor Unit Wiring Diagram



OUTDOOR UNIT MAIN CONTROL BOARD		
CODE	PART NAME	
CN3~CN4	Input:230VAC High voltage	
CN23,CN25	Output:Pinl(Connection of the high voltage)—"S" Pin2—Pin3(230VAC High voltage)—"L1&L2"	
P1~132	Output: Short Circuit with Red Wire	
CN1'~CN2	Output:230VAC High voltage—-REVERSE VALVE	
CN5~CN6	Output:230VAC High voltage—-CRANKCASE HEATER	
CN8~CN9	Output:230VAC High voltage—-CHASSIS HEATER	
P-1~ P-2	Connection to the earth	
CN18, CN19	Output:Pin1-Pin4:Pulse waveform(0-12VDC),Pin5,Pin6(12VDC)–EEV	
CN7 (T5)	Input:Pin1(0-5VDC),Pin2(5VDC)–Discharge Sensor	
CN17	Input:Pin3,Pin4(5VDC),Pin2(0VDC),PinI,Pin5(0-5VDC)—OUD Cond. Temp	
CN15 (T2)	Input:Pinl ,Pin3(5VDC) Pin2,Pin4(0-5VDC)–IDU Pipe Temp	
CN 14	Input:Pin2,Pin4(0-5VDC) ,PinI,Pin3(0VDC)—H/L Pressure Switch	
CN12	Input:Pin1(5VDC) ,Pin2(0-5VDC)—Compressor Temp	
CN29~L-OUT	Output:230VAC High voltage-To IPM Board	
CN 21	Connect to IPM BOARD	

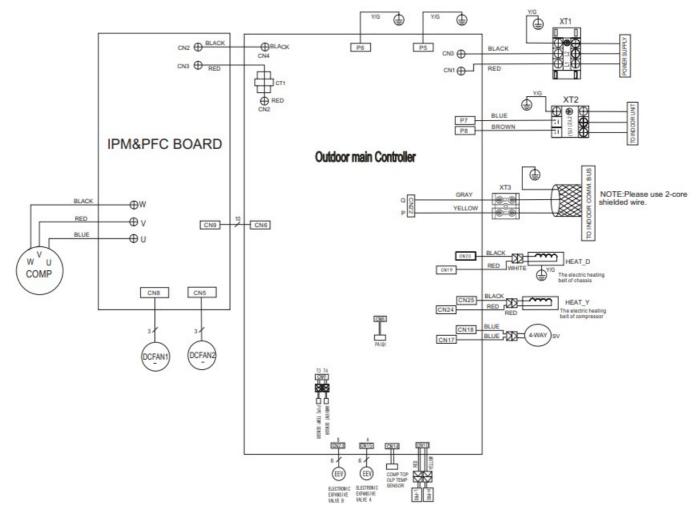
OUTDOOR UNIT IPM DRIVE BOARD		
CODE	PART NAME	
CN4~CN5	Input:230VAC High voltage —From Main Board	
CN2~CN3	Output:Connection of the REACTOR	
U~V~VV	Connection to compressor voltage among phases 0-200VAC	
CN14	Connection to DC FAN	
CN1	Connection to MAIN BOARD	

Figure 45. 208/230V MLB018S4S-\*P Outdoor Unit Wiring Diagram



CODE	PART NAME
JXI	TERMINAL BLOCK
COMP _ TOP	COMP. TOP OLP TEMP. SENSOR
EEV	ELECTRIC EXPANSIVE VALVE
FM1	DC FAN MOTOR
COMP	COMPRESSOR
HEAT_Y	CRANKCASE HEATER
CT 1	AC CURRENT DETECTOR
H-PRO	HIGH PRESSURE SWITCH
L-PRO	LOW PRESSURE SWITCH
SV	REVERSE VALVE (CN38)
T5	COMP. DISCHARGE TEMP. SENSOR
Т3	COIL TEMP. SENSOR
T4	OUTDOOR AMBIENT TEMP. SENSOR
HEAT D	CHASSIS HEATER

**Notes:** COMPONENT IN DASH LINE IS OPTIONAL OR FIELD WIRING Figure 46. 208/230V MLB024S4S-\*P Outdoor Unit Wiring Diagram



# Notes:

This symbol indicates the element is optional, the actual shape shall be prevail.

CODE	PART NAME
COMP	COMPRESSOR
CAP1,CAP2	FAN MOTOR CAPACITOR
CT1	AC CURRENT DETECTOR
EEV	ELECTRIC EXPANSIVE VALVE
DCFAN1,DCFAN	OUTDOOR DC FAN
HEAT_D,HEAT_Y	CRANKCASE HEATING
H-PRO	HIGH PRESSURE SWITCH
L-PRO	LOW PRESSURE SWITCH
4-WAY	4-WAY VA LVE
PAIQI	EXHAUST TEMPERATURE SENSOR
Т3	CONDENSER TEMPERATURE SENSOR
T4	OUTDOOR AMBIENT TEMPERATURE SENSOR

Figure 47. 208/230V MLB036S4S-\*P and MLB048S4S-\*P Outdoor Unit Wiring Diagram

### **Unit Start-Up**

#### **IMPORTANT**

Units should be energized 24 hours before unit start-up to prevent compressor damage as a result of slugging.

- 1. Inspect all factory and field-installed wiring for loose connections.
- 2. Verify that the manifold gauge set is connected.
- 3. Add additional refrigerant charge if required before opening valves and while system is still under a vacuum.
- 4. Open the liquid and gas line service valves to release the refrigerant charge contained in outdoor unit into the system.
- 5. Replace the stem caps and tighten to the value listed in "Table 4. Flare Nut Torque Recommendations and Tightening Procedure" on page 19.
- 6. Check voltage supply at the outdoor unit terminal strip. The voltage must be within the range listed on the unit's nameplate. If not, do not start the equipment until you have consulted with the power company and the voltage condition has been corrected.
- 7. Refer to the included user guide to operate the system using the provided remote control.
- 8. Visually check for binding of both indoor and outdoor fans.

### Adding Refrigerant for Longer Line Set

The outdoor unit is factory-charged with refrigerant.

Calculate the additional refrigerant required according to the diameter and the length of the liquid pipe between the outdoor unit and indoor unit connections.

Be sure to add the proper amount of additional refrigerant.

Failure to do so may result in reduced performance.

### **Table 8. Additional Refrigerant Charge**

System Size (KBtu)	Pipe Length (feet / meters)	Amount of Refrigerant to add
09	>25 (7.5)	0.161 oz/ft (15g/m)
12	>25 (7.5)	0.161 oz/ft (15g/m)
18	>25 (7.5)	0.161 oz/ft (15g/m)
24	>25 (7.5)	0.322 oz/ft (30g/m)
36	>25 (7.5)	0.322 oz/ft (30g/m)
48	>25 (7.5)	0.322 oz/ft (30g/m)

## **Setting Airflow Rate**

The static pressure airflow rate can be adjusted by using the included wired controller.

- 1. Turn off the system if it is on.
- 2. Press the MODE and FAN button simultaneously for three seconds.
- 3. Press ▲ or ▼ buttons to select the SP option.
- 4. Press MODE to set the airflow range. Options are 1 through 4.
- 5. Press the ON/OFF button to finish the procedure.

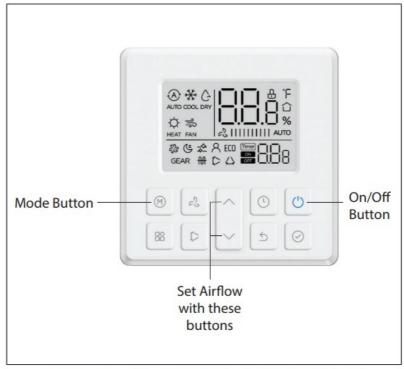


Figure 48. Wired controller (M0STAT120L-1)

Refer to the Lennox Product Specification for blower data and settings required for each size unit.

## **Indoor Unit Display**

The unit comes with an attachable display. Also provided is a 6-1/2 foot (2m) extension cable for easy placement.

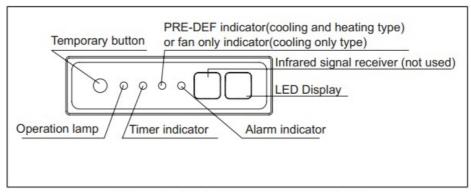


Figure 49. Indoor Unit Display

The indoor unit display is connected to the CN10 connection on the unit control board located in the control access panel area.

## **Troubleshooting**

**NOTE:** The indoor display and included wired remote do not always have matching error codes. Indoor Unit Error Codes

**Table 9. Indoor Unit Troubleshooting Codes** 

Display	Wired Remote Display	Description
E0	E7	Indoor unit EEPROM error
E1	E1	Communication error between indoor and outdoor units
E3	E8	Indoor fan speed error
E4	E2	Indoor return air temperature sensor error
E5	E3	Indoor coil temperature sensor error
EC	EF	Low refrigerant
EE	EE	High water level alarm (for ducted units only)
F0	EA	Outdoor current overload sensed
F1	E5	Outdoor ambient temperature sensor error (T4 malfunction)
F2	E5	Outdoor coil temperature sensor error (T3) Malfunction
F3	E5	Compressor discharge temperature sensor error (T5) Malfunction
F4	Ed	Outdoor unit EEPROM error
F5	Ed	Outdoor unit fan speed error
F6	E4	Indoor coil outlet temperature sensor error (T2B)
P0	Eb	Inverter module IPM error
	F0	Communication error between wired controller and indoor u nit
	F1	The cassette panel is abnormal
P1		High or low voltage protection
P2		High temperature sensed at compressor top
P3		Outdoor low ambient temperature protection
P4		Compressor drive error
P6		High or low pressure switch open
P7	EF	Outdoor IGBT temperature sensor error

## **Outdoor Unit Error Codes**

The error code display is located on the main controller board of the MPC036, MPC048, MLB036 and MLB048 models only.

Table 10. MLB and MPC Single-Zone Outdoor Unit Error Codes

Table 10. MLB and MPC Single-Zone Outdoor Unit Error Codes		
Display	Descriptions	
EL01	Communication malfunction between indoor and outdoor units.	
FL14*	Capability mismatch between indoor unit and outdoor unit.	
EC50	Outdoor temperature sensor error.	
EC51	Outdoor EEPROM error.	
EC52	Condenser coil temperature sensor (T3) malfunction.	
EC53	Outdoor ambient temperature sensor (T4) malfunction.	
EC54	Compressor discharge temperature sensor TP is in open circuit or has short circuited.	
EC55*	Outdoor IPM module temperature sensor malfunction.	
EC56*	Outdoor T2B sensor error.	
EC57*	Refrigerant pipe temperature sensor error.	
EC07	Outdoor DC fan motor malfunction/fan speed out of control.	
EC71	Over current failure of outdoor DC fan motor.	
EC72	Lack phase failure of outdoor DC fan motor.	
PC00	Inverter module (IPM) protection.	
PC02*	Top temperature protection of compressor.	
PC06	Discharge temperature protection of compressor.	
PC08	Outdoor over current protection.	
PC0A	High temperature protection of condenser.	
PC0F	PFC module protection.	
PC0L*	Low temperature protection of outdoor unit.	
PC10	Outdoor unit low AC voltage protection.	
PC11	Outdoor unit main control board DC bus high voltage protection.	
PC12	Outdoor unit main control board DC bus high voltage protection /341 MCE error	
PC30	System high pressure protection.	
PC31 PC40*	System low pressure protection.  Communication error between outdoor main chip and compressor driven chip.	

PC42	Compressor start failure of outdoor unit.
PC43	Outdoor compressor lack phase protection.
PC44	Outdoor unit zero speed protection.
PC45	Outdoor unit IR chip drive failure.
PC46	Compressor speed has been out of control.
PC49	Compressor over current failure.
PCA1*	Condensation protection of refrigerant pipe.
PH90*	High temperature protection of Evaporator.
	Low temperature protection of Evaporator.
LC06*	High temperature protection of Inverter module (IPM).
NOTE: If displays DF or FC, it is a normal operation, not a malfunction.	

### **Test Run**

### **Pre-Checks**

Only perform test run after you have completed the following steps:

- Electrical Safety Checks Confirm that the unit's electrical system is safe and operating properly.
- Refrigerant Leak Checks Check all flare nut connections and confirm that the system is not leaking.
- Confirm that liquid and gas valves are fully open.

# **Procedure**

You should perform the Test Run for at least 30 minutes.

- 1. Connect power to the unit.
- 2. Press the ON/OFF button on the remote controller to turn it on.
- 3. Press the mode button to scroll through the following functions, one at a time:
  - COOL Select lowest possible temperature.
  - HEAT Select highest possible temperature.
- 4. Let each function run for 5 minutes, and perform the following checks:

#### **Table 11. Test Run Checklist**

<sup>\*</sup> Applicable to some units only.

Checks	Pass	Fail
No electrical leakage		
Unit is properly grounded		
All electrical terminals properly covered		
Indoor and outdoor units are solidly installed		
All pipe connection points do not leak		
Water drains properly from drain hose		
All piping is properly insulated		
Unit performs COOL function properly		
Unit performs HEAT function properly		
Indoor unit louvers rotate properly		
Indoor unit responds to remote controller		

# **Dry Mode Operation (Dehumidification)**

#### **Procedure**

- 1. Using the provided wired remote control, press the MODE button and select DRY mode.
- 2. Press the UP/ DOWN button to select the desired temperature. The temperature setting range is from 62°F (17°C) to 86°F (30°C) in one degree increments.

**NOTE:** The blower is preset at a low speed and cannot be changed therefore it will get cold and most likely will surpass the temperature setting and will run down to 50°F (10°C) room temperature depending on the room size or other various factors. Also the Follow Me mode does not operate in this mode.

**NOTE:** In addition, the indoor units do not have a humidistat installed therefore they are unable to determine humidity levels. This product is not recommend as a main source for dehumidification.

### **Sequence of Operation**

When in dry mode operation the unit is actually in cooling mode with a low speed blower operation. Set remote temp to a lower room temp to begin the dry mode operation. The compressor will stop when the room temperature is 50°F (10°C) lower than the temperature setting.

System will not resume unit until room temperature rises above 53.6°F (12°C).





**LENNOX 507783-03 Single Zone Mini Split Systems** [pdf] Instruction Manual 507783-03 Single Zone Mini Split Systems, 507783-03, Single Zone Mini Split Systems, Zone Mini Split Systems, Split Systems, Systems

### References

• User Manual

#### Manuals+, Privacy Policy

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