

Please read this manual carefully before installation and keep it for future reference.

Installation Manual



14 SEER Split System A-Coil



RECOGNIZE THIS SYMBOL AS AN INDICATION OF IMPORTANT SAFETY INFORMATION

WARNING

These instructions are intended as an aid to qualified licensed service personnel for proper installation, adjustment and operation of this unit. Read these instructions thoroughly before attempting installation or operation.

Failure to follow these instructions may result in improper installation, adjustment, service or maintenance possibly resulting in fire, electrical shock, property damage, personal injury or death.



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SAFETY

When you see the symbols below on labels or in manual, be alert to the potential or immediate hazards of personal injury, property and/or product damage. It is the owner's or installer's responsibility to comply with all safety instructions and information accompanying these symbols.

WARNING

This is a safety alert symbol indicating a potential hazardous situation, which could result in personal injury, property and/or product damage or death.

CAUTION

This is a safety alert symbol indicating a potential hazardous situation, which could result in moderate personal injury, and/or property and product damage.

WARNING

Disconnect all power to the unit before starting any service and maintenance. Failure to do so could cause severe electrical shock resulting in personal injury or death.

WARNING

Installation or servicing of this unit can be hazardous due to parts, components and system pressure. Qualified and proper trained service personnel should perform installation and repair. Failure to do so could cause severe electrical shock resulting in personal injury or death.

The unit can be positioned for bottom return air in the upflow position, left and right return in the horizontal position, top return in downflow position.

2.1 CODES & REGULATIONS

This product is designed and manufactured to comply with national codes. Installation in accordance with such codes and/or prevailing local codes/regulations is the responsibility of the installer. The manufacturer assumes no responsibility for equipment installed in violation of any codes or regulations.

The United States Environmental Protection Agency(EPA) has issued various regulations regarding the introduction and disposal of refrigerants. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. Should you have any questions please contact the local office of the EPA.

2.2 INSPECTION UPON UNIT ARRIVAL

As soon as unit is received, it should be inspected and noted for possible shipping damage during transportation. It is carrier's responsibility to cover the cost of shipping damage. Manufacturer or distributor will not accept a claim from contractors for any transportation damage.

2.3 CLEARANCES

Following clearances should be provided during installation

- a. Maintenance and service access, including coil cleaning and coil assembly removal.
- b. Refrigerant piping and connections.
- c. Condensate drain line.

2.4 UNIT DIMENSION AND COMPONENT LOCATION

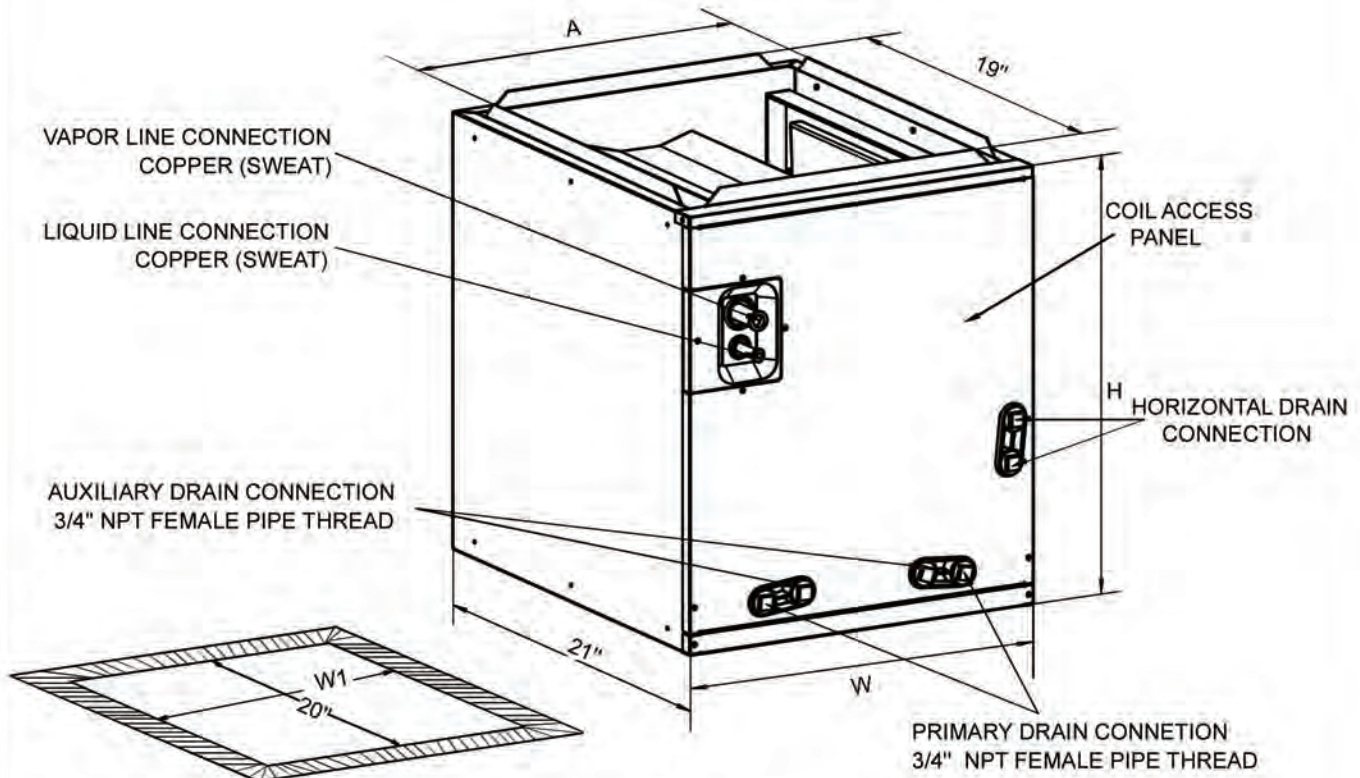


Fig.1 CASED DIMENSIONS AND COMPONENT LOCATION

DIMENSIONAL DATA

MODEL SIZE	Dimensions inch [mm]			
	UNIT HEIGHT "H" IN. [mm]	UNIT WIDTH "W" IN. [mm]	SUPPLY DUCT "A"	"W1" IN. [mm]
MCMP3137ANO	26"[660]	14-1/2"[368]	13"[330]	13-1/2"[343]
MCMP3137BNO	26"[660]	17-1/2"[445]	16"[407]	16-1/2"[419]
MCMP3137CNO	26"[660]	21"[533]	19-1/2"[495]	20"[508]
MCMP4248BNO	30"[762]	17-1/2"[445]	16"[407]	16-1/2"[419]
MCMP4860CNO	30"[762]	21"[533]	19-1/2"[495]	20"[508]
MCMP4860DNO	30"[762]	24-1/2"[622]	23"[584]	23-1/2"[597]
MCMP4961DNO	30"[762]	24-1/2"[622]	23"[584]	23-1/2"[597]

INSTALLATION INSTRUCTIONS

3.1 PARTS

Contact your distributor for authorized replacement parts.

3.2 PRE-INSTALLATION INSTRUCTIONS

Carefully read all instructions for installation prior to installing product. Make sure each step or procedure is understood and any special considerations are taken into account before starting installation. Assemble all tools, hardware and supplies needed to complete the installation. Some items may need to be purchased locally. Make sure everything needed to install the product is on hand before starting.

3.3 INSTALLATION AND TRAP CONNECTION

See Fig .3 for coil installation and drain connection for vertical and horizontal applications.

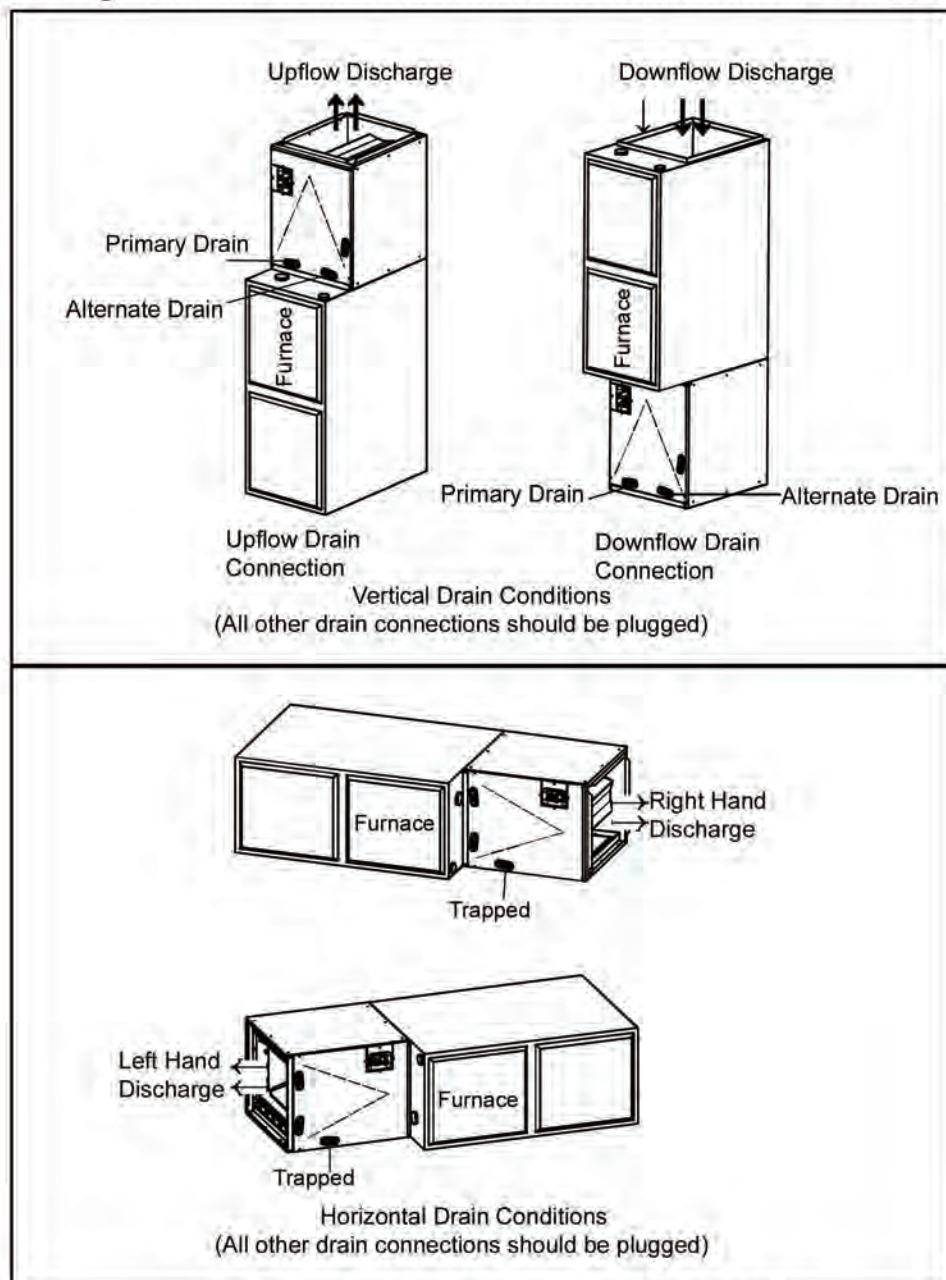


Fig.3 INSTALLATION AND DRAIN CONNECTIONS

DRAIN APPLICATION

4.1 CONDENSATE DRAIN PIPING

Consult local codes for special requirements.

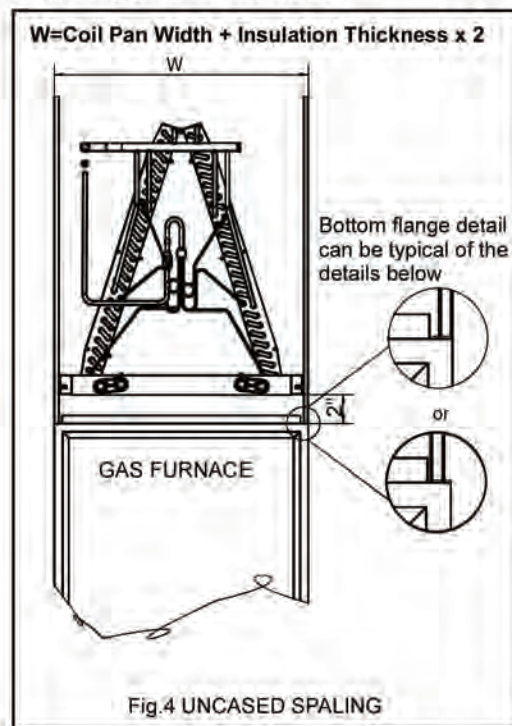
To provide extra protection from water damage, install an additional drain pan, provided by installer under the entire unit with a separate drain line. Manufacturer will not be responsible for any damages due to the failure to follow these requirements.

4.2 PLASTIC DRAIN PAN INSTALLATION

! WARNING

Do not use the coil pan shipped with the unit on OIL furnaces or any application where the temperature of the drain pan may exceed 275°F. A field fabricated metal drain pan can also be used for these type of applications. Failure to follow this warning may result in property damage and/or personal injury.

If the uncased coil is to be installed on top of a gas furnace, allow enough space between the top of the furnace and the bottom of the plastic coil drain pan to have a free flow of air. A minimum of 2.0" distance from the top of the furnace and the bottom of the coil pan is required. The coil should be installed with the line set and drain openings to the front of the furnace.



The coil drain pan has a primary and an optional secondary drain with 3/4" NPT female connections; use either PVC or metal pipe and hand tighten to a torque of approximately 37 in-lbs. to prevent damage to the drain pan connection. An insertion depth between .355 to .485 inches (3-5 turns) should be expected at this torque setting.

Use male 3/4" NPT threaded fitting for outside connection and make sure the drain holes are not blocked.

Insulation may be needed for drain line to prevent sweating.

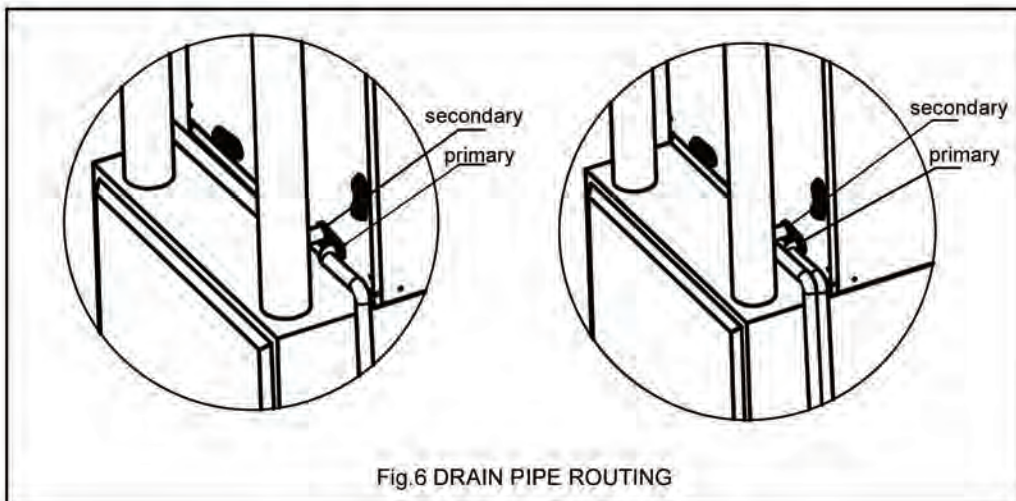
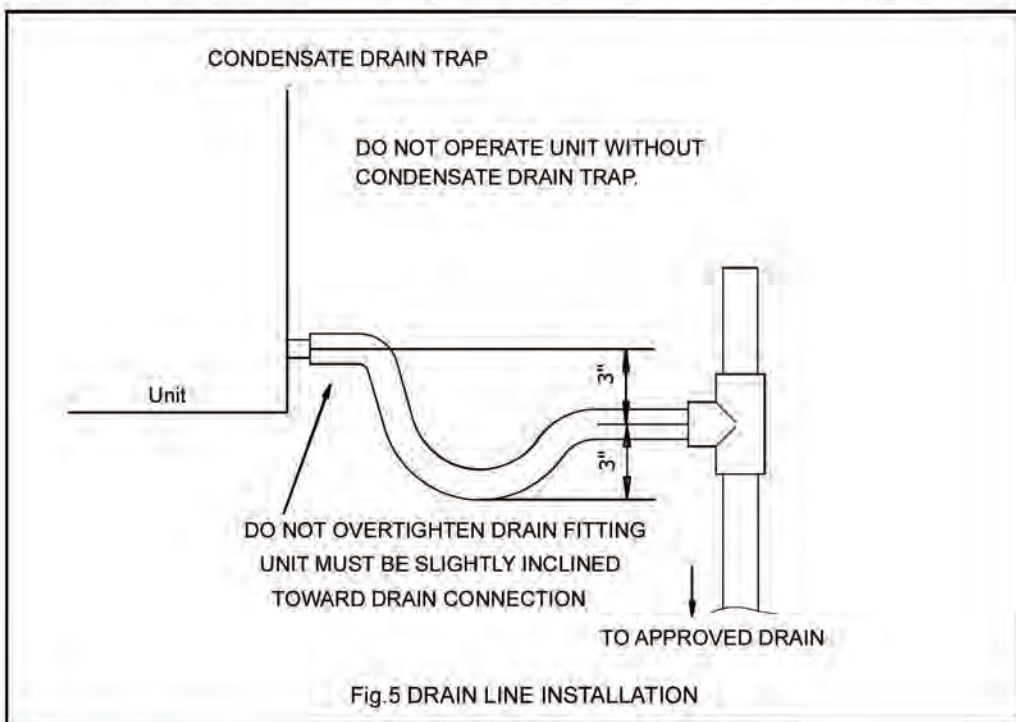
DRAIN APPLICATION

Drain pan has two drain connections on each side to provide flexibility of connection and drainage. Make sure pan has proper pitch and plugged if second connection is not used.

If the secondary drain line is required, run the line separately from the primary drain and end it where it can be easily seen.

NOTE: Water coming from this line means the coil primary drain is plugged and needs clearing.

Install a trap in the drain line below the bottom of the drain pan. If using a copper drain line, solder a short piece of pipe to the connector before installing a drain fitting. DO NOT over torque the 3/4" copper connector to the plastic drain connection. Use a wet rag or heatsink material on the short piece to protect plastic drain pan, complete the drain line installation (Fig.5). Use (Fig.6) as a template for typical drain pipe routing. This figure shows how to avoid interference with vent piping.



REFRIGERANT CONNECTIONS

To prevent refrigerant leak, use proper tools to ensure clean, burr-free cut.

Use brazing shield when welding close to the cabinet surface and wet rag to protect rubber grommet.

Brazing alloy should be at least 5% silver content.

5.1 FLOWRATOR PISTON CHANGE

In most applications, there is no need to change the piston (orifice). However, in some mix-matched applications, change of piston size is required. If the application needs to change the piston, change the piston in the distributor of indoor coil before installing the coil.

To change the piston, use following steps:

1. Remove cover panel.
2. Use Two wrenches. Loosen one turn to release pressure. (High pressure gas)
3. After releasing pressure. Loosen and carefully pull two fittings to expose piston.
4. Remove and replace piston shown in Fig.7.
5. Carefully reassemble assembly. (Hand tighten) Be sure to use teflon tape on thread for a complete seal.
6. Hand tighten and make sure assembly is properly connected and then torque to 10-30 ft/lb.

NOTE: Be careful not to bend the tubing.

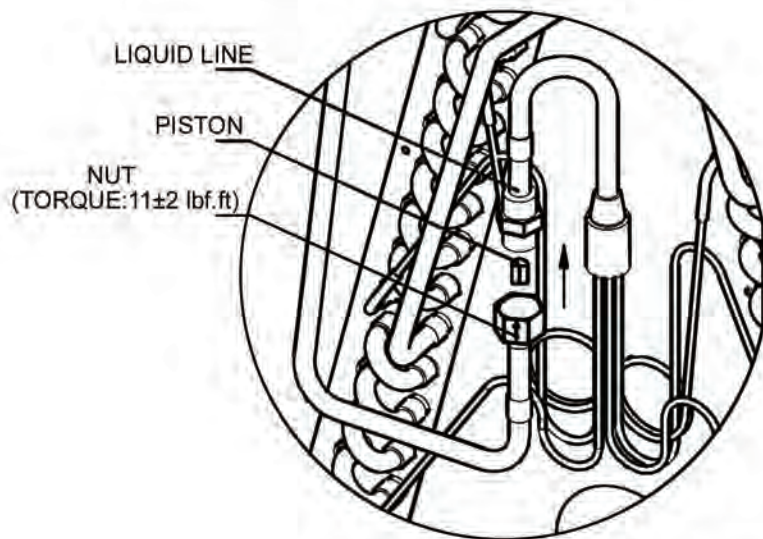
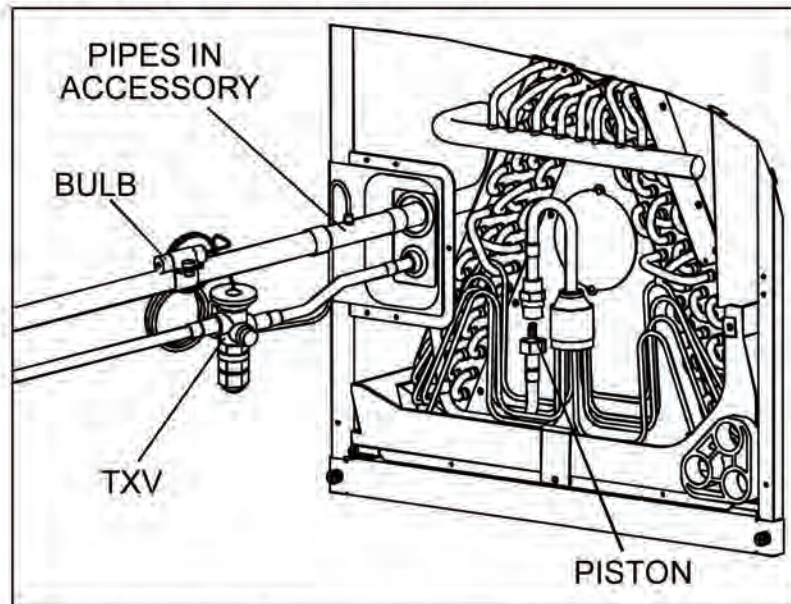


Fig.7 FLOWRATOR PISTON CHANGE

REFRIGERANT CONNECTIONS

TXV INSTALLATION INSTRUCTION



Step 1: Screw off the 7 fixed bolts from the acoil cover panel, take out panel.

Step 2: Turn off the base of shut-off valve, take out the piston, screw up the valve base.

Step 3: Weld the accessory TXV as close as possible to the inlet of evaporator. When welding, a wet cloth must be wrapped to the outside of the valve for cooling down the valve temperature. For ensuring the valve installation direction is correct, you could confirm the arrow in the valve is indicates to evaporator. Horizontally upward install the TXV, don't sloping or downward install it.

Step 4: Weld the accessory pipe to the outlet of evaporator; keep the reserved pressure equalizing orifice of TXV is upward horizontally. Insert the pressure equalizing pipe of TXV to the orifice of the accessory pipe and then weld them together. The pipe inserted deepness should be about 3 or 4mm, don't insert it any much longer.

Step 5: Tie up the fixed sheet copper fixture (for temperature sensor special) as close as possible to the top of evaporator water outlet, insulate cotton outside of it. Clean out the oxidizing layer from air-contacted part, let the true metal color expose to the air.

Step 6: Reinstall the cover panel. The TXV installation has been done.



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The design and specifications are subject to change without prior notice.
Consult with the sales agency or manufacturer for details.