

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

# Installation & Owner's Manual



**MRCOOL®**

COMFORT MADE SIMPLE

## Hyper-Heat Single-Zone 24K-60K Ducted Air Handler & Condenser

Due to updates and constantly improving performance, the information and instructions within this manual are subject to change without notice. Please visit [www.mrcool.com/documentation](http://www.mrcool.com/documentation) to ensure you have the latest version of this manual.

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The condensate drain pipe is used to drain condensate (water) away from the unit. Improper installation of the drain pipe could result in unit and/or property damage. A drain pipe is not included with this air handler and must be purchased separately.

## NOTE ON PURCHASING DRAIN PIPE

Drain pipe installation requires a polyethylene tube (internally threaded tube 3/4 inch), which can be obtained at your local hardware store or dealer.

## ! CAUTION

- ⚠ **DO NOT** pull the drain pipe forcefully as this could cause it to become disconnected. Insulate all piping to prevent condensation, which could lead to water damage.
- If the drain pipe is bent or installed incorrectly, water could leak and cause the water level switch to malfunction.
- In HEAT mode, the outdoor unit will discharge water. Ensure that the drain hose is placed in an appropriate area in order to avoid water damage and possibility of slipping.

## IMPORTANT

- After removing drain pan plug(s), check the drain hole(s) to verify that the drain opening is fully open and free of any debris. Also ensure that no debris has fallen into the drain pan during the installation that could impede flow through the drain opening.
- Be sure to seal around the exiting drain pipe, as well as around the liquid and suction lines to prevent infiltration of humid air.
- The blower within this unit draws air through the coil rather than blowing air through it. This can cause the blower to draw air in through the drainage piping and into the air supply. In order to prevent this, traps must be installed in the drainage piping (primary & auxiliary, if used).

## Indoor Unit Drain Pipe Installation

These units operate with a negative pressure at the drain connections and a drain trap is required. The trap needs to be installed as close to the unit as possible. Make sure the top of the trap is below the connection to the drain pan to allow complete drainage of the pan. Please refer to **Fig. 5.1** below as a guide.

1. Install the drain pipe into the main drain hole. Then, cover the drain pipe with heat insulation to prevent condensation from forming and leakage from occurring.

### VERTICAL DISCHARGE

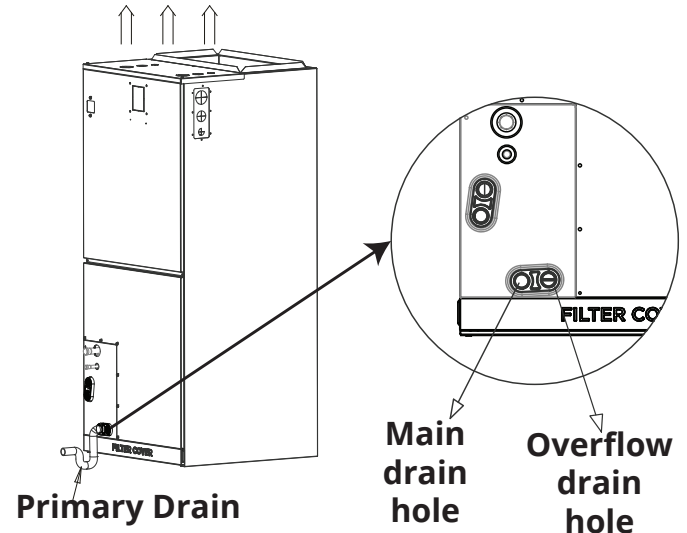


Fig. 5.1

### NOTE ON HORIZONTAL PIPE RUNS

Horizontal runs must also have an anti-siphon air vent (stand pipe) installed ahead of the horizontal run to eliminate any air trapping. Please see the Fig. 5.2 below.

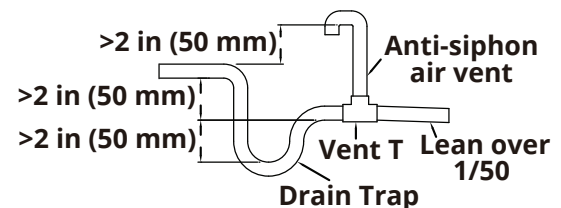


Fig. 5.2

# Drain Pipe Installation

## NOTE ON DRAIN PIPE INSTALLATION

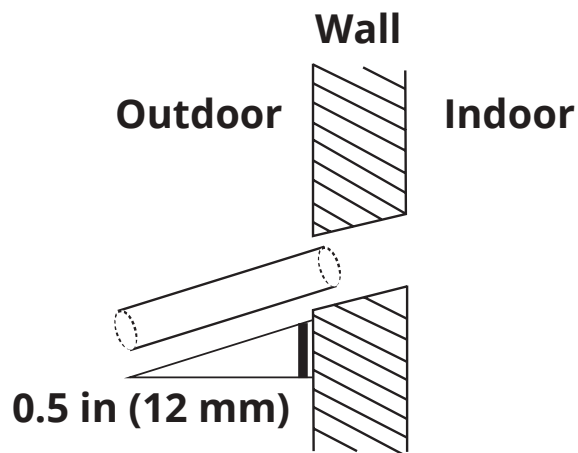
- When using an extended drain pipe, tighten the indoor connection with an additional protection tube to prevent it from pulling loose.
- The illustrations on the previous page show how to trap and plug all drains during vertical and right-hand discharge.
- The seal plug provided in the accessories should be screwed in and tightened by hand.
- Improper installation of the drain pipe could cause water to flow back into the unit and flood.

2. Next, using a 3.5 in (90 mm) core drill, drill a hole into the wall to allow the drain pipe to be routed to the exterior of the building. When drilling the hole, be sure to drill it at a slightly downward angle, so that the outdoor end of the hole is lower than the indoor end by roughly 0.5 in (12 mm). This will ensure proper drainage. Please refer to **Fig. 5.3** below as a guide.

**NOTE: The wall hole will also be used to run the refrigerant piping/line set and wiring through that will connect the air handler to the outdoor unit.**

## NOTE ON DRILLING THE WALL HOLE

When drilling the wall hole, be sure to avoid wires, plumbing, and other sensitive components.



**Fig. 5.3**

3. Pass the drain pipe through the wall hole to the exterior of the building. Ensure that it will drain to a safe location where it will not cause water damage or create a slipping hazard.
4. Once the entire installation is complete be sure to fill the remaining space of the hole with some sort of sealant (ex: spray foam).

## NOTE ON DRAIN PIPE OUTLET

- The drain pipe outlet should be at least 1.9 in (5 cm) above the ground. If the drain pipe outlet is allowed to touch the ground, it could become blocked and cause the unit to malfunction.
- If you discharge the water directly into a sewer, make sure that the drain has a U or S pipe to catch odors that could come back into the building.