

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.

Version Date: 06/27/23

## Cleaning the Indoor Unit

### BEFORE CLEANING OR PERFORMING MAINTENANCE

Always turn off the system and disconnect its power supply before cleaning or performing any type of maintenance.

- Contact an authorized service technician for repair or maintenance. Improper repair and maintenance may cause water leakage, electrical shock, and/or fire. It could also void your warranty.
  - Ensure the drain hose is set up according to the instructions. Failure to do this could result in leakage that could cause personal property damage, fire, and/or electric shock.
  - Make sure that all wires are connected securely and properly. Failure to connect wires according to the instructions could result in property damage, electrical shock, and/or fire.
- ⊘ **DO NOT** substitute a blown fuse with a higher or lower amperage fuse, as this could cause damage to the circuit and/or an electrical fire.

### CAUTION

Only use a soft, dry cloth to wipe the unit clean. If the unit is especially dirty, you can use a warm, damp cloth to wipe it clean.

- ⊘ **DO NOT** use chemicals or chemically treated cloths to clean the unit.
- ⊘ **DO NOT** use benzene, paint thinner, polishing powder, or other solvents to clean the unit. They can cause the plastic surface to crack or deform.
- ⊘ **DO NOT** use water hotter than 104°F (40°C) to clean the front panel. This can cause the panel to deform or become discolored.
- ⊘ **DO NOT** wash the unit under running water, as this could create an electrical hazard.

## Air Filter Replacement

The air filter prevents dust and other particles from entering the indoor unit. Dust can accumulate and reduce the efficiency of the unit. For optimum efficiency, clean the air filter every two weeks, or more frequently if you live in a dusty area. If the filter is heavily clogged and cannot be cleaned, replace the filter with a new one.

### CAUTION

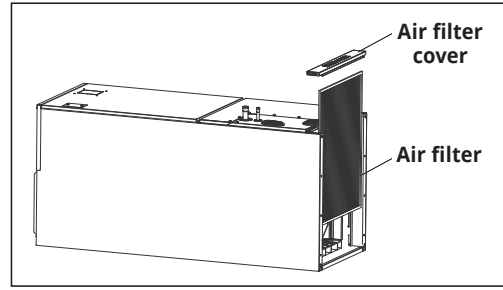
- Before changing the filter or cleaning, turn off the unit and disconnect the power supply.
  - When removing the filter, do not touch the metal parts of the unit. The sharp metal edges can cause injury.
  - Any maintenance or cleaning of the outdoor unit should be performed by an authorized dealer or a licensed service provider.
  - Any unit repairs should be performed by an authorized dealer or a licensed service provider.
- ⊘ **DO NOT** use water to clean the inside of the indoor unit. Doing this could destroy the insulation and could cause electrical shock.
- ⊘ **DO NOT** expose the filter to direct sunlight when drying, as this could cause it to shrink.

### NOTE ON AIR FILTER REPLACEMENT

Replace the air filter every 30 to 90 days depending on the Minimum Efficiency Reporting Values (MERVs) Rating.

# Care & Maintenance

1. Remove cover plate.
2. Slide out the air filter.
3. Clean the air filter by vacuuming the surface or washing it in warm water with mild detergent.
4. If using water, allow the filter to dry.
5. Reinstall the filter by reversing steps 1 & 2.



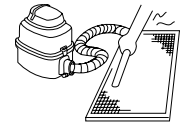
## NOTE:

- In households with animals, the grille will periodically need to be wiped down to prevent animal hair from blocking airflow.
- If the unit has a filter installed from the factory, it is only there for an energy efficiency sampling test. The user will need to use a filter that meets the requirements of UL900.

If using water, the inlet side should face down and away from the water stream.

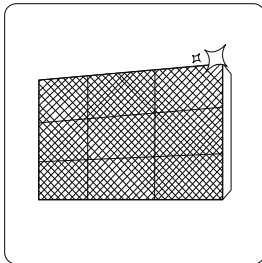


If using a vacuum cleaner, the inlet side should face the vacuum.

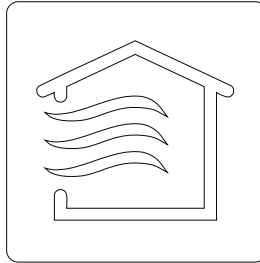


## Maintenance - Preparation for Extended Periods of Non-Use

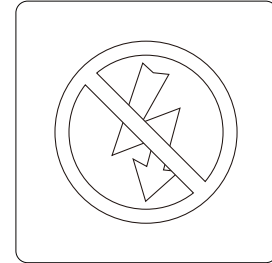
If you plan on not using the unit for an extended period of time, please do the following:



**Replace all filters**



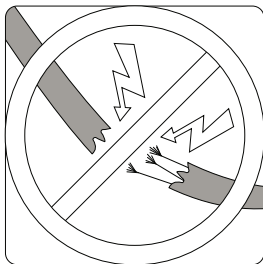
**Turn on the FAN until the unit is completely dried out**



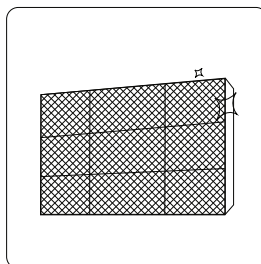
**Turn off the unit and disconnect the power**

## Maintenance - Pre-Season Inspection

After extended periods of non-use, or in preparation for periods of frequent use, please do the following:



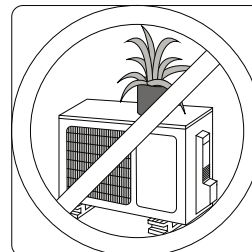
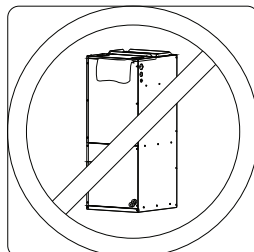
**Check for damaged wires**



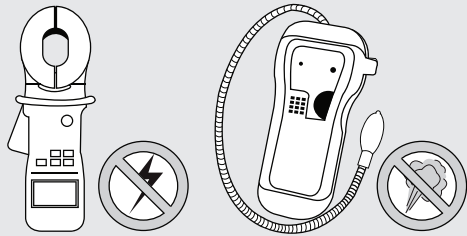
**Replace all filters**



**Check for leaks**



**Make sure nothing is blocking the air inlets and outlets**



## WARNING – RISK OF ELECTRICAL SHOCK

**ALL WIRING MUST BE INSTALLED BY A LICENSED ELECTRICIAN AND COMPLY WITH LOCAL, STATE, AND NATIONAL ELECTRICAL CODES.**

### Electrical Safety Checks

After installation is complete, confirm that all electrical wiring has been installed in accordance with local and national regulations, and according to the installation manual.

#### BEFORE TEST RUN

##### Check Insulated Resistance

The insulated resistance must be more than  $2M\Omega$ .

##### Check Grounding Work

Measure grounding resistance by visual detection and with a grounding resistance tester. Grounding resistance must be less than  $0.1\Omega$ .

**NOTE: This may not be required for some locations in North America.**

#### DURING TEST RUN

##### Check for Electrical Leakage

During the Test Run, use an electroprobe and multimeter to perform a comprehensive electrical leakage test.

#### IF ELECTRICAL LEAKAGE IS DETECTED

**If electrical leakage is detected, turn off the unit immediately and call a licensed electrician to find and resolve the cause of the leakage.**

**NOTE: This may not be required for some locations in North America.**

### Gas Leak Checks

There are two different methods to check for gaseous leaks. Use **Fig. 10.1** below as a guide for the critical points to check for leaks.

#### Soap and Water Method

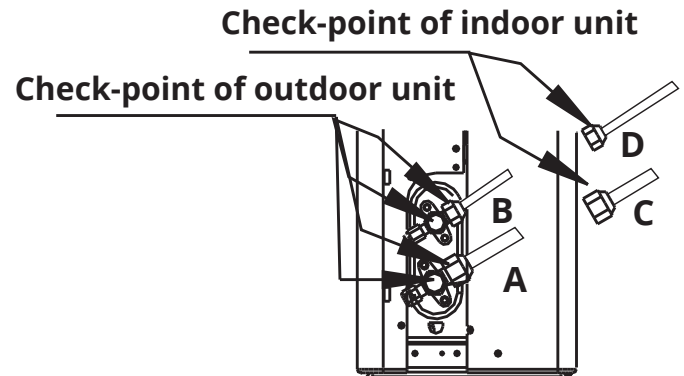
Using a soft brush or spray bottle, apply a soapy water solution to all of the pipe connection points of the indoor and outdoor units, watching to see if any bubbles form. The presence of bubbles indicates there is a leak.

#### Leak Detector Method

If using a leak detector, refer to the device's operation/instruction manual for proper usage instructions.

#### AFTER PERFORMING GAS LEAK CHECKS

**After confirming that all of the refrigerant pipe connection points *DO NOT* leak, replace the valve cover on the outside unit and wrap and insulate the piping connections.**



**A: Low pressure stop valve  
B: High pressure stop valve  
C & D: Indoor unit flare nuts**

**Fig. 10.1**

**NOTE: Fig. 10.1 above is for demonstration purposes only. It represents the connection points to check for leaks.**