

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

# Safety Precautions



## Read Before Using

**Incorrect usage may cause serious damage or injury.**

The symbols below are used throughout this manual to indicate instructions that should be followed closely or actions that should be avoided to prevent death, injury, and/or property damage.



**WARNING**

**This symbol indicates ignoring instructions may cause death or serious injury.**



**CAUTION**

**This symbol indicates ignoring instructions may cause bodily injury, damage to the unit, or other surrounding property.**



**This symbol indicates that you should NEVER perform the indicated action.**



## **WARNING FOR PRODUCT INSTALLATION**

**DISCLAIMER:** You are assuming risk by handling materials containing refrigerants under pressure, that if not handled properly can cause bodily injury. If you do not feel comfortable performing this installation process, we recommend you retain the services of a qualified HVAC professional.

**\*\*\*\*ELECTRICAL WORK MUST BE COMPLETED BY A QUALIFIED ELECTRICAL TECHNICIAN\*\*\*\***

- ⊘ **DO NOT** install the unit in a location that may be exposed to combustible gas leaks. If combustible gas accumulates around the unit, it could cause fire.
  - ⊘ **DO NOT** turn on the power until the installation and all work has been completed.
  - ⊘ **DO NOT** install a unit equipped with an auxiliary electric heater within 3 ft (1 m) of any combustible materials.
1. Installation must be performed according to the installation instructions. Improper installation could cause water leakage, electrical shock, fire, and could void the warranty. (In North America, all wiring/electrical work must be performed in accordance with the requirements of NEC and CEC by authorized personnel only.)
  2. Contact an authorized service technician for repair or maintenance of this unit. This appliance should be installed in accordance with national wiring regulations.
  3. Only use the included accessories, parts, and specified parts for installation. Using non-standard parts can cause water leakage, electrical shock, fire, and/or failure of the unit.
  4. Install the unit in a firm location that can support the unit's weight. If the location cannot support the unit's weight, or the installation is not done properly, the unit may drop and cause serious injury and damage.
  5. Install the drainage piping according to the instructions in this manual. Improper drainage could cause water damage to your home and/or property.
  6. When moving or relocating the air conditioner, consult experienced service technicians for disconnection and re-installation of the unit.
  7. For detailed information of how to install the indoor and outdoor units to their respective supports, please refer to the indoor unit installation and outdoor unit installation sections of this manual.
  8. Excessive Weight Hazard: Use two or more people when moving and installing the unit. Failure to do this could result in personal injury.

## **WARNING FOR PRODUCT USE**

- ⑦ ***DO NOT*** insert fingers, rods, or other objects into the air inlet or outlet. This could cause injury, since the fan may be rotating at high speeds.
  - ⑦ ***DO NOT*** use flammable sprays such as hair spray, lacquer or paint near the unit, as this could cause fire and/or an explosion.
  - ⑦ ***DO NOT*** operate the unit in places near or around combustible gases. Emitted gas may collect around the unit and cause an explosion.
  - ⑦ ***DO NOT*** allow children to play with the appliance. Children must be supervised around the unit at all times.
  - ⑦ ***DO NOT*** operate the unit in a room where it could be exposed to excessive amounts of water, such as a bathroom or laundry room. Exposure to excessive water amounts can cause the electrical components to short circuit.
  - ⑦ ***DO NOT*** expose your body directly to focused cool airflow from the unit for a prolonged period of time.
1. If the unit operates abnormally (emits strange noises or a burning smell), immediately turn off the unit and disconnect the power in order to avoid electric shock, fire, and/or injury. Call your local dealer, or MRCOOL® tech support at (270) 366-0457, for further assistance.
  2. If the air conditioner is used together with burners or other heating devices, thoroughly ventilate the room in order to avoid an oxygen deficiency.
  3. In certain functional environments (such as kitchens and server rooms etc.), the use of specially designed air-conditioning units is highly recommended.
  4. This appliance can be used by children (8 years and older) and persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge if they have been given instruction concerning the use of the appliance and understand the hazards involved.
  5. This unit is not designed for non-ducted (freeblow) applications. Electric heat kits and the blower are easily accessible without ducting. Operating this unit without ducting would create a major safety hazard and the potential for electric shock and/or personal injury.

## **ELECTRICAL WARNINGS**

**\*\*\*\*ELECTRICAL WORK MUST BE COMPLETED BY A QUALIFIED ELECTRICAL TECHNICIAN\*\*\*\***

- ⑦ ***DO NOT*** share the power supply with other appliances. An improper or insufficient power supply could cause fire and/or electrical shock.
1. The product must be properly grounded during installation or electrical shock could occur.
  2. Appropriate wiring standards, regulations, and the installation manual must be followed for all electrical work.
  3. If connecting power to fixed wiring, the following must be incorporated within it, in accordance with the wiring rules; an all-pole disconnection device (which has at least 3 mm of clearances in all poles), and have a leakage current that may exceed 10 mA, the residual current device (RCD) having a rated residual operating current not exceeding 30 mA, all must be present.
  4. For all electrical work, fuse the specified cables. Connect cables tightly and clamp them securely to prevent external forces from damaging the terminal. Improper electrical connections could overheat, causing fire and/or electrical shock.
  5. All electrical connections must be made according to the Electrical Connection Diagram located on the panels of the indoor and outdoor units.
  6. All wiring must be properly arranged to ensure that the control board cover can close properly. If the control board cover is not properly closed, it can lead to corrosion and cause the connection points on the terminal to heat up, catch fire, or cause electrical shock.



## WARNING FOR CLEANING & MAINTENANCE

- ⊘ **DO NOT** clean the unit with excessive amounts of water.
  - ⊘ **DO NOT** clean unit with combustibile cleaning agents, as these could cause deformation and/or fire.
1. Turn off the device and disconnect the power before cleaning. Failure to do this could result in electrical shock.
  2. Children should not be allowed to play with the appliance or perform cleaning and user maintenance.

## ! CAUTION

- ⊘ **DO NOT** allow the unit to operate for extended periods of time with the doors or windows open, or in very high humidity.
  - ⊘ **DO NOT** operate the unit with wet hands, as this could cause electric shock.
  - ⊘ **DO NOT** use device for any other purpose than its intended use.
  - ⊘ **DO NOT** climb onto or place objects on top of the outdoor unit.
1. Make sure that water condensation can drain smoothly and unhindered from the unit.
  2. Turn off the unit and disconnect the power if the unit will not be used for an extended period of time.
  3. As with any mechanical equipment, contact with sharp sheet metal edges can result in personal injury. Ensure care is taken when handling the unit and any of its accessories by wearing gloves and protective clothing.

## NOTE ON FLUORINATED GASES:

1. This unit contains fluorinated greenhouse gases.
2. For specific information on the type of gas and the amount, please refer to the relevant label on the unit itself.
3. Service, maintenance, and repair of this unit must be performed by a certified technician.
4. Product un-installation and recycling must be performed by a certified technician.

## NOTE ON STATIC PRESSURE

The allowed static pressure range of the air handler on site 0.00-0.80 in H<sub>2</sub>O (0-200 Pa).

The data below represents the static pressures at the full required airflow used for AHRI testing.

Model	24-60K
Pressure	0.50 in H <sub>2</sub> O (125 Pa)

Units: Inch of Water Column (Pascals)

**NOTE:** The maximum functional total external static pressure cannot exceed 0.80 in WC (200 Pa). The airflow reduces significantly at pressures above and beyond 0.80 in WC (200 Pa). The system design should allow for the increased resistance of filters as they become dirty.