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 to ensure you have the latest version of this manual.

Version Date: 06/27/23

NOTE: Install the unit by following local codes and regulations, these may slightly differ between regions.

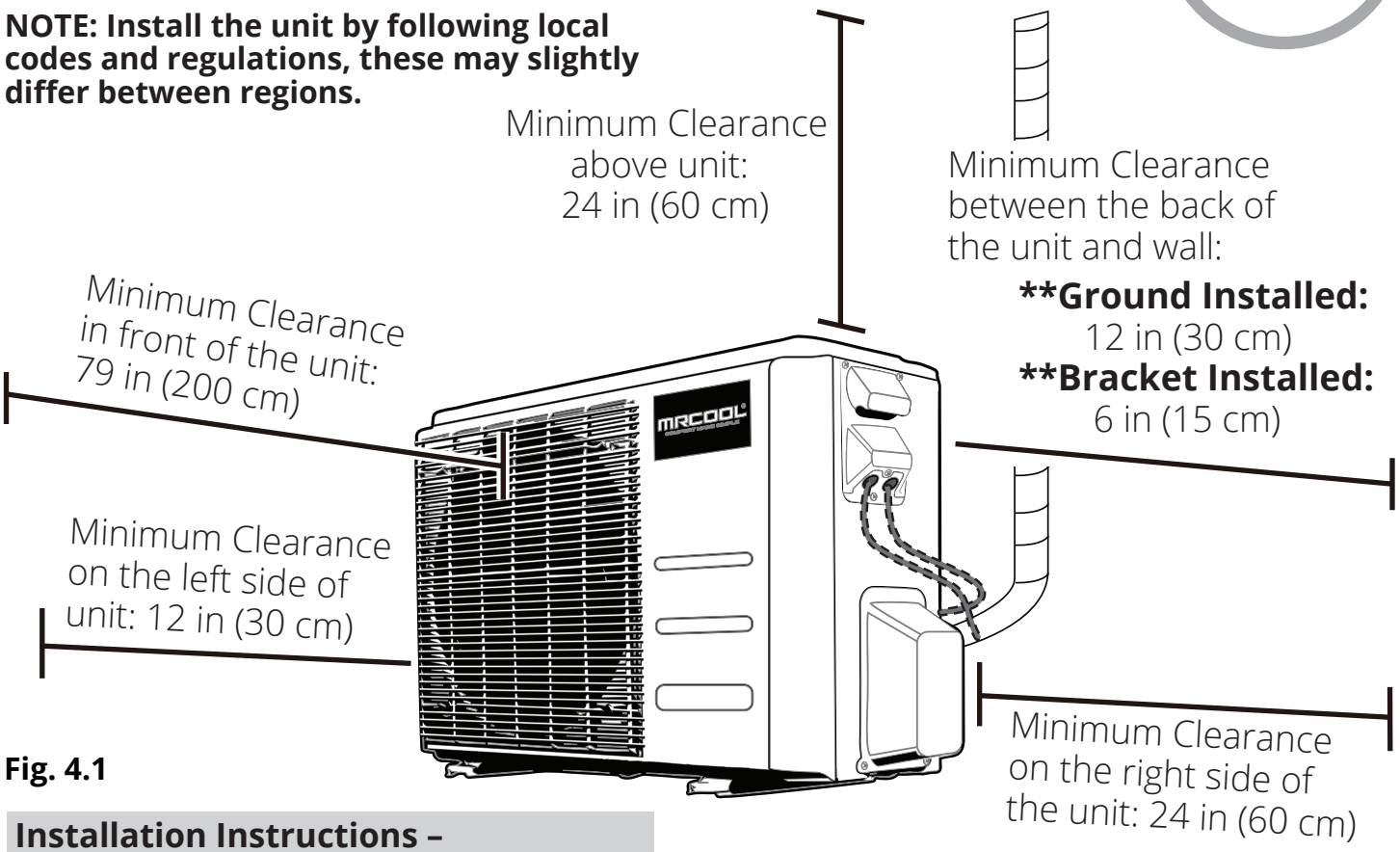

Fig. 4.1

Installation Instructions – Outdoor Unit

Step 1: Select an Installation Location

Before installing the outdoor unit, you must choose an appropriate location. Use the following guidelines to help you select an appropriate location.

Proper installation locations should meet following guidelines:

- ☑ **Meets all spatial requirements shown in the illustration above (Fig. 4.1)**
- ☑ **Good air circulation and ventilation**
- ☑ **Firm and solid location that can support the unit and will not cause vibration**
- ☑ **Noise from the unit will not disturb others**
- ☑ **Protected from prolonged periods of exposure to direct sunlight or rain**
- ☑ **If installed in an area where snowfall is expected, take appropriate measures to prevent ice buildup and coil damage. If necessary, mount the unit on risers of at least 6 in (15 cm) or per local code to be above the average snowfall for the area.**

***DO NOT* install unit in the following locations:**

- ⊘ **Near an obstacle that will block air inlets and outlets.**
- ⊘ **Near a public street, crowded areas, or where noise from the unit will disturb others.**
- ⊘ **Near animals or plants that could be harmed by hot air discharge.**
- ⊘ **Near any source of combustible gas.**
- ⊘ **In a location that is exposed to large amounts of dust.**
- ⊘ **In a location exposed to excessive amounts of salty air.**
- ⊘ **In a location that exposes the unit to large amounts of forced water.**

SPECIAL CONSIDERATIONS FOR EXTREME WEATHER

If the unit is exposed to heavy wind: Install the unit so the air outlet fan is at a 90° angle to the direction of the wind. If needed, build a barrier in front of the unit to protect it from extremely heavy winds. Ensure the wind barrier does not block necessary airflow. See **Fig. 4.2** and **Fig. 4.3** below.

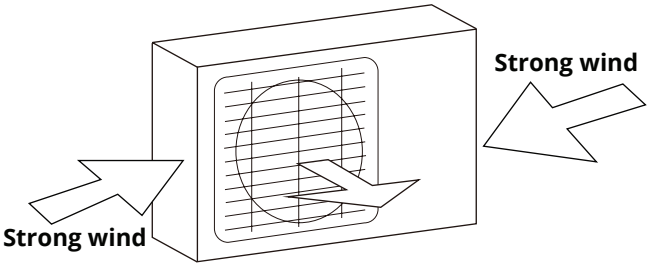

Fig. 4.2

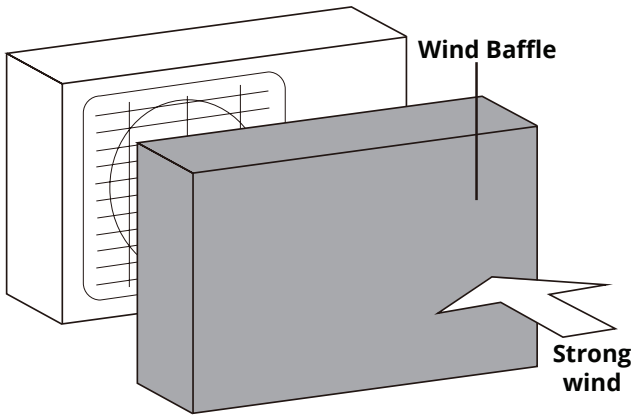

Fig. 4.3

If the unit is frequently exposed to heavy rain or snow: Build a shelter above the unit to protect it from the rain or snow. Be careful not to obstruct airflow around the unit.

If the unit is frequently exposed to salty air (seaside): Use an outdoor unit that is specially designed to resist corrosion.

IMPORTANT

In areas where snowfall is prevalent, the use of risers or a stand to elevate the condenser above the snow line is required by local & national codes.

Step 2: Install drain joint

Heat pump units require a drain joint if the unit is elevated. Before bolting the outdoor unit in place, you must install the drain joint at the bottom of the unit. **NOTE: there are two different types of drain joints depending on the type of outdoor unit.**

If the drain joint comes with a rubber seal (see Fig. 4.4 - A), do the following:

1. Fit the rubber seal on the end of the drain joint that will connect to the outdoor unit.
2. Insert the drain joint into the hole in the base pan of the unit.
3. Rotate the drain joint 90° until it clicks in place facing the front of the unit.
4. Connect a drain hose extension (not included) to the drain joint to redirect water from the unit during heating mode.

If the drain joint does not come with a rubber seal (see Fig. 4.4 - B), do the following:

1. Insert the drain joint into the hole in the base pan of the unit. The drain joint will click in place.
2. Connect a drain hose extension (not included) to the drain joint to redirect water from the unit during heating mode.

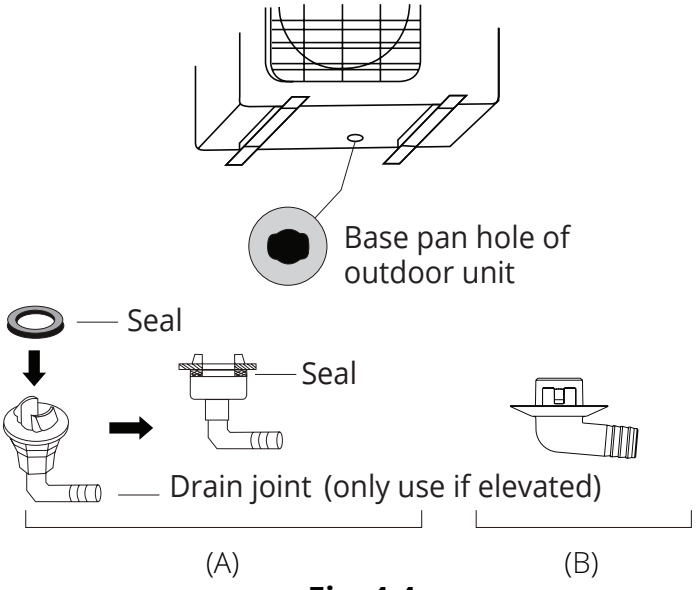

Fig. 4.4

DRAINAGE IN COLD CLIMATES

In cold climates, make sure that the drain hose is as vertical as possible to ensure swift water drainage. If water drains too slowly, it can freeze in the hose and flood the unit.

Outdoor Unit Dimensions

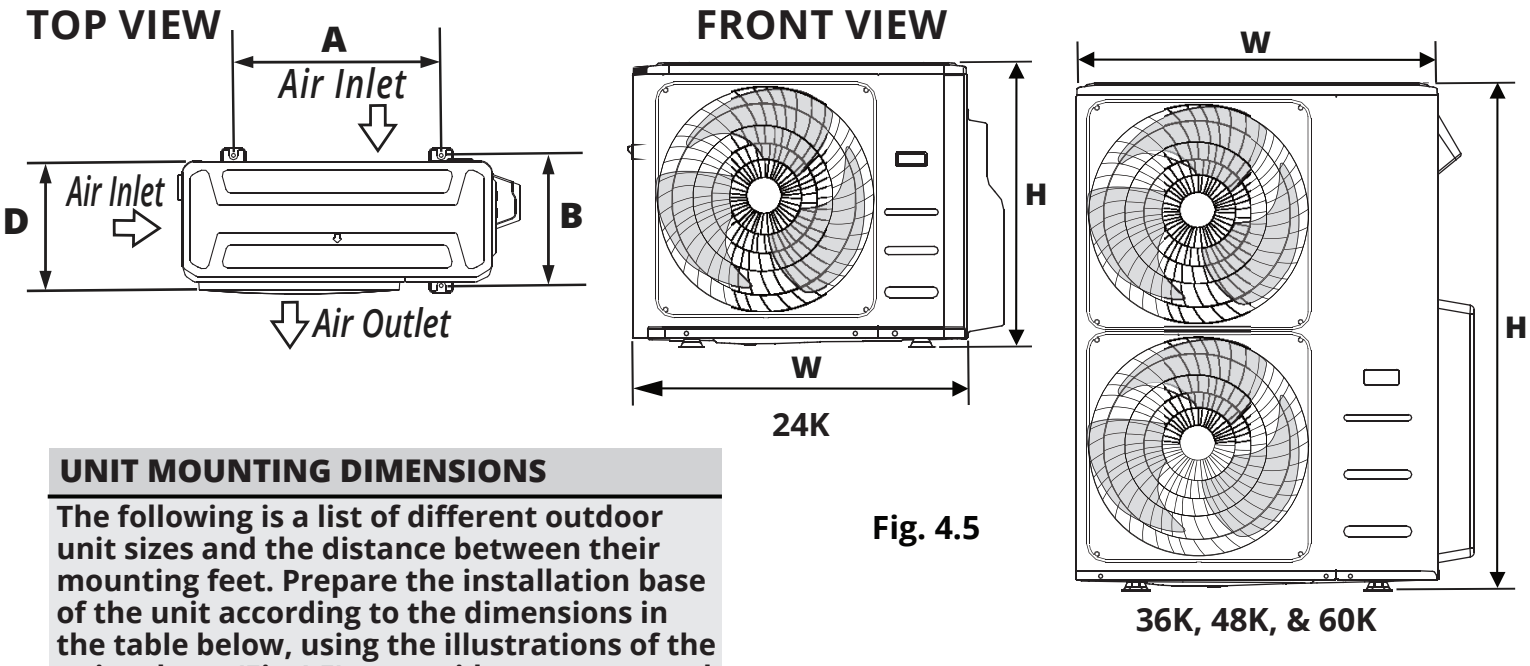

Fig. 4.5

UNIT MOUNTING DIMENSIONS

The following is a list of different outdoor unit sizes and the distance between their mounting feet. Prepare the installation base of the unit according to the dimensions in the table below, using the illustrations of the units above (Fig 4.5) as a guide to correspond with the table.

Outdoor Unit Model#	Outdoor Unit Dimensions: Inches (Millimeters) Width (W) x Height (H) x Depth (D)	Mounting Dimensions: Inches (Millimeters) Width (A)	Depth (B)
CENTRAL-24-HP-C-230A00	37.24 in x 31.89 in x 16.14 in (946 mm x 810 mm x 410 mm)	26.50 in (673 mm)	15.87 in (403 mm)
CENTRAL-36-HP-C-230A00	37.48 in x 52.48 in x 16.34 in (952 mm x 1333 mm x 415 mm)	24.96 in (634 mm)	15.90 in (404 mm)
CENTRAL-48-HP-C-230A00	37.48 in x 52.48 in x 16.34 in (952 mm x 1333 mm x 415 mm)	24.96 in (634 mm)	15.90 in (404 mm)
CENTRAL-60-HP-C-230A00	37.48 in x 52.48 in x 16.34 in (952 mm x 1333 mm x 415 mm)	24.96 in (634 mm)	15.90 in (404 mm)

Step 3: Anchor Outdoor Unit

The outdoor unit can be anchored to the ground or to a wall-mounted bracket using M-10 bolts. Prepare the installation base of the unit according to the dimensions in the table above. If you're installing the outdoor unit on the ground or on a concrete platform, refer to the set of instructions to the right. Instructions for installing the outdoor unit to a wall-mounted bracket are located on the next page.

⚠ WARNING

When drilling into concrete, it is recommended to wear safety goggles, or some form of eye protection, in order to guard against the dust that will be created.

If you are installing the outdoor unit on the ground or a concrete mounting platform, use the following steps:

1. Mark the positions for four expansion bolts based on dimensions in the **Mounting Dimensions** chart and illustrations on the previous page.
2. Pre-drill holes for expansion bolts.
3. Clean concrete dust away from the holes.
4. Place a nut on the end of each expansion bolt.
5. Hammer expansion bolts into the holes you pre-drilled.
6. Remove the nuts from the expansion bolts, and place outdoor unit on bolts.
7. Put a washer on each of the expansion bolts, then reinstall the nuts.
8. Using a wrench, tighten each nut until snug.

If you are installing the unit on a wall-mounted bracket, follow these steps:

CAUTION

Before installing a wall-mounted unit, make sure that the wall is made of solid brick, concrete, or a similarly strong material. The wall must be able to support at least 4 times the weight of the unit.

1. Mark the position of the bracket holes based on the dimensions in the Mounting Dimensions chart on the previous page.
2. Pre-drill the holes for the expansion bolts.
3. Clean dust and debris away from the holes.
4. Place a washer and nut on the end of each expansion bolt.
5. Thread expansion bolts through the holes in the mounting brackets. Then, put the mounting brackets in position and hammer the expansion bolts into the wall.
6. Check that the mounting brackets are level.
7. If the feet of the outdoor unit have rubber pads already installed, and you're using a MRCOOL® wall-mounted bracket, remove them before attempting to mount the condenser to the bracket. The mounting bracket has rubber isolating pads on it that will take the place of these.
8. Carefully lift the unit and place its mounting feet on the brackets.
9. Then, bolt the unit firmly to the brackets.

TO REDUCE VIBRATION OF WALL-MOUNTED UNIT

If allowed, you can install the wall-mounted unit with rubber gaskets to reduce vibration and noise.