

Hercules Industries Cooler Installation Package (CIP)

!!Warning!!

Improper installation, adjustment, or alteration can cause injury or property damage. For assistance or additional information; consult a qualified installer, or service agency.

Important

Please refer to any state, local ordinances (including plumbing and electrical codes) prior to installation. Local authorities having jurisdiction should be consulted before installation is made. Such applicable regulation or requirements take precedence over the general instructions in this manual.

1. Check contents of the box to be sure you have all of the components:
 - Two piece starter section – one flashing with square duct
-- one flashing with a round collar
 - Register Box (square box with flanges and a round collar)
 - Ceiling Diffuser (white finish)
 - 10 foot section of Flexible Duct
 - Adjustable leg stand -- legs for round cornered coolers is standard.
Square cornered coolers (for example, MasterCool) require a square leg kit #LS-7808.
2. Determine the best location for the evaporative cooler on the roof, keeping in mind such factors as: accessibility for future maintenance, visibility from various angles, sufficient attic space below for ductwork, and strength of the structure to handle the weight of the cooler filled with water (operating weight). Also check if the distance between rafters is wide enough to accommodate the round starter section.
3. Determine the location of the ceiling diffuser. For best results, find a centralized spot where cool air can travel to all rooms of the house. Make sure there are no obstacles in the attic above the ceiling, and the distance from the roofline below the cooler to the desired diffuser location is 10 feet or less. If it is more than 10 feet, you will need to add a section of snaplock pipe or an adjustable elbow at additional cost.
4. From inside the attic, run a nail up through the roof along the side of the rafters below where the cooler will sit. Return to the roof, and mark the area between the rafters at least ¼” bigger than the square flashing. Saw a hole in the roof where you marked. Slide a pry bar under the shingles within 6” of the hole to loosen, and remove all nails from the shingles above and on the sides of the opening.
5. Above the location of your diffuser, clear away all insulation, and trace the inside of the register box on the ceiling. After cutting the hole, put the register box in position and nail in place. Then attach the diffuser to the box from below.
6. Returning to the roof, install the 2 piece starter section in the roof, with the round collar protruding down through the roof, and the square duct above it, sticking up off the roof. Nail them both into place, making sure to keep it tight and waterproofed with a silicone sealant. Replace and repair all of the shingles around the flashings, being sure to overlap the flashing on the upslope. Ensure all roof penetrations are sealed with silicone sealant or roof mastic.
7. Make sure you have adequate means of lifting the cooler in place. Please use extreme caution setting cooler in place.
8. Assemble the leg kit and attach it to the cooler, with the short legs on the side of the cooler closest to the peak of the roof. **Make sure NOT to screw into the lower section of the cooler that holds water.** Then place the cooler into position over the flashing, which should slip up inside of the discharge opening on the bottom of the cooler. After leveling the cooler, tighten all connections and nail or bolt the legs to the roof.
9. Inside the attic, attach the flex to the round collar of the starter section and run it down to the collar of the register box. Be sure to secure both connections with clamps and duct tape.
10. Finalize your installation by following the instructions that came with your evaporative cooler. All electrical, water and drain connections should be made in accordance with local building codes and cover manufactures installation instructions. Once your motor is installed and wired properly, test your duct installation by running the blower **BEFORE** filling the cooler with water, in case you need to make any adjustments. Be sure the damper on the diffuser is fully opened.