#### Eco Kold – HCR 4141 Installation Guide

Required Tools:

Recovery Machine, Recovery Tank	Vacuum Pump, Scale, HC Leak Detector
Monometers and Amps meter	Gloves and Eye Protection

▲ **IMPORTANT:** Eco Kold **must never** be mixed with any other refrigerant under any circumstances. Doing so may compromise system integrity and void performance. Eco Kold is fully compatible with all standard system oils - **no modifications or oil changes are required.** 

# <u>A Do Not Proceed If Any of the Following Conditions Exist:</u>

- The equipment is not operating according to manufacturer specifications
- Visible refrigerant leaks are present
- Loose or damaged electrical connections
- Equipment has been modified or does not match original specifications
- Piping diameters differ from factory requirements

### **Step 1 - Pre-Installation Inspection**

Perform a full visual inspection of the equipment Look for any visible refrigerant or oil leaks Inspect for loose or disconnected electrical wires Confirm all electrical box covers are properly in place Attach gauges to measure system pressure. If the high-pressure port is unavailable, use the lowpressure port **only.** Measure system current **AMPs** and **Voltage** Record <u>supply</u> and <u>return</u> air **Temperature** Log all collected data for reference

#### NOTE:

**Do not replace** the refrigerant unless the system is operating within manufacturer specifications. Refer to the factory label for reference. If the unit is operating to spec, refrigerant replacement may proceed.

### Step 2 - Refrigerant Recovery

Connect hoses to both the recovery unit and the recovery tank

Place the recovery tank on a scale and reset the scale to zero

Begin the refrigerant recovery process. Ensure both liquid and vapor are recovered.

Once the recovery unit stops, record the total amount recovered (in kg or lbs).

Compare the recovered amount with the manufacturer's specified charge (found on the unit label).

If the recovered amount is **less than the factory charge**, inspect the unit for possible **leaks or damage**.

Properly dispose of recovered refrigerant according to local regulations Connect a vacuum pump and evacuate the system as per standard procedures

## Step 3 - Charging Eco Kold

Connect the Eco Kold tank to the gauges. Charging must be done in the liquid phase! Slowly open the liquid valve on the gauges to avoid hydroshock If the high-pressure port is unavailable, charge through the low-pressure port Begin charging and monitor the following key parameters:

- Low-side pressure should stabilize between 70 80 PSI
- High-side pressure (if accessible) should read between 190 230 PSI
- Total charge should be 25 35% of the weight of the recovered refrigerant
- AMP's draw should be 45% 55% lower than with the original refrigerant (measured prior to replacement)

Allow the unit to run for **30 minutes** to stabilize. Check the outlet temperature, **it should be equal to or lower than before**.

Take final readings for **pressure**, **amperage**, **and temperature**. **Record all data** for documentation and system verification.

## **Step 4 - Post Installation**

Apply Eco Kold identification stickers in a visible location on the unit to clearly indicate that an alternative refrigerant is in use for future technicians.

Write the updated pressure and amperage readings directly on the sticker.

We recommend **rechecking the unit the following day** to ensure proper performance after the cooling space reaches the target temperature.

#### **Important Safety Notes**

- Avoid direct exposure to high heat or open flames.
- Eco Kold is a **stable refrigerant** composed of liquefied petroleum (LP) gases.
- Use standard industry practices and common sense when handling
- HCR 4141 is a direct drop-in replacement for conventional refrigerants; no system modifications are needed if the unit meets factory specs



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