HUSSMANN®

EVOLVE™ CO_2

OCU040

Outdoor Condensing Unit with CO_2 Refrigerant

Medium and Low Temperature

WARNING: This CO_2 condensing unit shall only be connected to an appliance suitable for the same refrigerant.

Pre-Startup Guide

IMPORTANT

Keep for future reference!

P/N M001091_A
October 2024

OCU040 PRE-STARTUP GUIDE

For specific details, such as location, operation, and proper setting, please refer to the Hussmann OCU040 IO manual (link below).

Prerequisites

- ☐ Ensure all work areas represent a safe work environment and are free of construction debris.
- ☐ The customer or contractor must provide competent personnel with proper tools and equipment and be present onsite for the entirety of the FQS visit.

Piping, Evacuating, and Charging

- ☐ All field-installed piping completed, including cases, walk-ins, liquid line filter/drier, suction filter, solenoid valve with bypass check valve, etc.
- ☐ Remotely mounted evaporator pressure relief valves should be installed per the installation details. Ensure all ship loose items are installed. See IO manual for details.
- ☐ All piping should be pressure-tested per local codes.
- ☐ System should be evacuated as described in the IO manual to 500 microns.
- ☐ Break vacuum on the system using CO_2 vapor bottles (to prevent the formation of dry ice) as described in the IO manual. Enough CO_2 should be available on site in both liquid tanks and vapor tanks to fully charge the system. The CO_2 should be refrigerant grade CO_2 (99.9% purity) or better. Please reference the charge requirements calculations sheet from the link in the IO manual or below.
- ☐ Verify the amount of the oil charge as described in the IO manual. Enough oil should be available on site for the initial startup and first oil change. Use only the oil type designated for this unit.

Condensing Unit

- ☐ Check all electrical connections in the control panel.
- ☐ Verify connection and voltage prior to putting main power and control to the unit.
- ☐ Verify all temperature sensors are reading correctly in the OCU controller.
- ☐ Verify all pressure transducers are reading correctly in the OCU controller.
  Note: During the evacuation process, transducers should be closed. When vapor charge is being added, transducers should be open.
- ☐ Turn on compressor crankcase heater 1–3 hours prior to system start up.

Links to External Resources

IO Manual
www.hussmann.com/ns/Installation_Operation_Manual/IO_OCU040_3202293_EN.pdf

Charge Calculation
https://www.hussmann.com/ns/Technical-Documents/OCU_Charge_Calculation_Tool.xlsx