

OCU040

Outdoor Condensing Unit with CO₂ Refrigerant

Medium and Low Temperature



WARNING: This CO₂ condensing unit shall only be connected to an appliance suitable for the same refrigerant.

Pre-Startup Guide

IMPORTANT

Keep for future reference!

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.

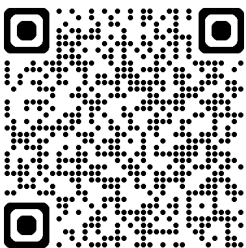
Piping, Evacuating, and Charging

- 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 CO₂ vapor bottles (to prevent the formation of dry ice) as described in the IO manual. Enough CO₂ should be available on site in both liquid tanks and vapor tanks to fully charge the system. The CO₂ should be refrigerant grade CO₂ (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](http://www.hussmann.com/ns/Installation_Operation_Manual/IO_OCU040_3202293_EN.pdf)



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