

Guide Specification

Oil Recovery / Recharge & Distillations Unit

Model Number: ORR-1000 & POD-1000

Doc # ORR-1000-A-0900

Part 1: General

1.01 SYSTEM DESCRIPTION

- A. ORR-1000 unit consists of a 250-lb refrigerant tank, a .75-hp oil-less compressor, and an oil pump. Hose connections are made from the unit to a chiller's compressors oil sump and condenser,.
- B. POD-1000 unit consists of a 250-lb refrigerant tank, a .75-hp oil-less compressor, and an oil pump, along with two self-limiting external heaters. A 4 CFM vacuum is also included.

1.02 QUALITY ASSURANCE

ETL, CE, and CSA, shall certify the equipment for safety and construction as well as EPA compliant and UL 1963 listed.

1.03 DELIVERY, STORAGE, AND HANDLING

The unit shall be shipped, stored, handled, installed, operated, and maintained in accordance with the manufacturer's instructions.

Part 2: Products

2.01. EQUIPMENT

- A. General:
 - a. The recovery system shall consist of a gold plus single cylinder oil-less compressor, valves and piping. There shall be manually operated valves.
 - b. Power requirements are 110-115V 50/60 Hz 1Ph 15 Amp, 220-230V 50/60 Hz 1Ph 10Amp. Heaters 115V 15Amp, 230V 10Amp.
 - c. Optional oil & refrigerant filters should be added to the system
- B. Installation:
 - a. Installation of the oil recovery system shall be in accordance with all state and local, mechanical and electrical codes. The oil recovery system shall be connecting to existing oil sump port and the condenser via 3/8-inch and 1/2-in recovery hoses with flare connections. Three hoses shall be required to make complete connections from the oil sump, condenser and recovery tank.
- C. Dimension and Weight:
 - a. Unit dimension shall be approximately 24" x 16" x 51"
 - b. Unit weight shall be 200-lbs
 - c. Frame consists of aluminum and steel.
- D. Compressor:
 - a. The recovery system shall use a Platinum plus single cylinder oil-less compressor driven by a 0.75-hp motor.
- E. Tank
 - a. The recovery tank standard 250-lb.
- F. Piping and Valving:
 - a. 3/8 & 1/2-inch piping, valving, and ports shall be used on the recovery system.
- G. Control System and Safeties:
 - a. The compressor has an internal thermal overload.
 - b. Unit will have a 10 amp breaker switch
 - c. The control system shall prevent tank overpressure by halting operations should tank pressure reach 200-psi.
 - d. Low Psi switch to stop operation of unit at a 15" vacuum.
 - e. 80% tank full cut out on recovery
- H. Included Accessories:
 - a. 1ea 10-ft x 3/8-inch hose
 - b. 1ea. 10-ft x 1/2-inch hose
- I. Options:
 - a. Additional storage 250-lb.
 - b. Oil & Refrigerant filters.