

Guide Specification

MityVac High Pressure Light Commercial Electromechanical Refrigerant Recovery System

Model Number: MRH-500

Doc # MRH-500-A-0900

Part 1: General

1.01 SYSTEM DESCRIPTION

- A. A high pressure light commercial capacity recovery system shall be capable of being transported by hand, and of providing ARI certified recovery rates of at least 55.00-lb/min push/pull and 1.56-lb/min vapor (R22).
- B. The recovery system shall be designed for use with all high-pressure refrigerants.

1.02 QUALITY ASSURANCE

ETL, CE, CSA, and ARI 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 2-hp open drive compressor with oil separator, a High Capacity air cooled condenser, valves and piping. There shall be manually operated valves to isolate unit.
- b. Power requirements are 115V 60Hz 1Ph 20 Amps, 110V 50Hz 1Ph 20 Amps, and 230V 60Hz 1Ph 20 Amps, 220V 50Hz 1Ph 15 Amps.
- c. The recovery system shall include two 30-cubic inch inline-filters driers with 1/2" flare connections to remove moisture, acids, and particles before they enter the recovery unit. The filter, shall install on intake port, on the recovery system.

B. Installation:

- a. Installation of the recovery system shall be in accordance with all state and local, mechanical and electrical codes. The recovery system shall be connecting to existing liquid and vapor ports on the cooling system via 1/2-inch recovery hoses with flare connections. Four hoses shall be required to make complete connections from the recovery system to cooling system and recovery tank.

C. Dimension and Weight:

- a. Unit dimension shall be approximately 24" X 16-1/2" X 19".
- b. Unit weight shall be 125-lbs.
- c. Case shall be made of aluminum with two handles for lifting.

D. Compressor:

- a. The recovery system shall use an open drive compressor with oil separator driven by a 2-hp motor.

E. Condenser:

- a. The recovery system shall have a high capacity air-cooled condenser size 11.00" wide x 10.75" high, 3/8" inlet & outlet, 10 FPI.

F. Condenser Fan Motor

- a. Condenser fan motor is 35W 115V 50/60 Hz 25W 230v 50/60Hz.

G. Piping and Valving:

- a. 1/2" inch piping, valving, and ports shall be used on the recovery system.

H. Control System and Safeties:

- a. The compressor motor has an internal thermal overload.
- b. Unit will have a 20 amp breaker switch
- c. The control system shall prevent tank overpressure by halting operations should tank pressure reach 450-psi.
- d. Low pressure shut off at 15"inch. Hg.
- e. Tank float cable connection

I. Included Accessories

- a. Two 30-cubic inch in-line filters.
- b. 50-ft 12-gauge power cord.
- c. 12-ft tank float cable.
- d. Two 1/2" flare swivels.

J. Options:

- a. Recovery tanks 250-lb, 1000-lb with or without float switch.
- b. 10 & 20-ft 1/2-inch hoses
- c. Spare 30-cubic inch in-line filters