

## Guide Specification

### HandyVac High pressure Residential & Light Commercial Refrigerant Recovery System

Model Number: RTO-500

Doc # RTO-500-A-0900

#### Part 1: General

##### 1.01 SYSTEM DESCRIPTION

A. A high pressure commercial capacity recovery system shall be capable of being transported by hand, and of providing ARI certified recovery rates of at least 25.00 lb/min push/pull 7.80-lb/min liquid and 0.53-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 2ea. Platinum plus single cylinder oil-less compressor, an 2ea. air cooled condenser, valves and piping. There shall be manually operated valves, plus connections for an IMO float cable from the recovery tank.
- b. Power requirements are 115V 50/60Hz 1Ph 20 Amps, 220-240V 50/60Hz 1Ph 10 Amps.
- c. The recovery system shall include one pre-filter drier with 3/8" 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 3/8-inch recovery hoses with flare connections. Two 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 19-1/2" X 10-1/2" X 19-1/2"
- b. Unit weight shall be 67-lbs
- c. Case shall be made of aluminum.

###### D. Compressor:

- a. The recovery system shall use 2ea. Platinum plus single cylinder oil-less compressor driven by a 0.75-hp motor.

###### E. Condenser:

- a. The recovery system shall have 2ea. High capacity air-cooled condenser size 6" wide x 9" high, 3/8" inlet & outlet, 12 FPI.

###### F. Condenser Fan Motor

- a. Condenser fan motors 2ea. 35W 115V 50/60 Hz

###### G. Piping and Valving:

- a. 3/8" inch piping, valving, and ports shall be used on the recovery system.

###### H. Control System and Safeties:

- a. The compressors shall have an internal thermal overload.
- b. Unit will have a dual 15 amp breaker switch
- c. The control system shall prevent tank overpressure by halting operations should tank pressure reach 550-psi.
- d. Low Psi switch to stop operation of unit at a 15" vacuum.

###### I. Options:

- a. Recovery tanks 30-lb, 50-lb, 250-lb & 1000-lb.
- b. Internal float for recovery tanks.
- c. 3/8" sight glass.
- d. 3/8" In Line Drier
- e. Hoses with isolation valves.