

The EMSE CORPORATION tank mounted Medical Vacuum system is a completely packaged NFPA 99 and NEC compliant assembly featuring a dry rotary vane vacuum pump, U.L. listed control cabinet, an ASME receiver and the accessories required to meet and exceed the current code requirements.

All components are piped and wired to single-point service connections. The only field connections are air intake, air discharge and power at the control panel.

All interconnecting piping and wiring is complete and operationally tested prior to shipment. Liquid tight conduit, fittings and junction boxes are provided for all control and power wiring.

VACUUM PUMPS

The medical vacuum pump is a continuous duty oil-less rotary vane air-cooled type. It is driven by a 3 phase, 60 cycle, and TEFC NEMA C-face motor.

Also included is an inlet check valve, inlet isolation valve, safety relief valve, inlet filter, vacuum switch, inlet and discharge flexible connectors and a shut-off cock for gauge and vacuum switch.

RECEIVER

The system includes a vacuum receiver of ASME construction rated 200 PSI MWP. The tank is equipped with a vacuum gauge and manual tank drain.

CONTROL PANEL

The UL listed control panel is supplied in a NEMA 12 enclosure and includes short circuit, single phase and thermal overload protection. Externally operable circuit breakers with a door interlock, control circuit transformers with fused primary and secondary coils, H-O-A switches, magnetic starters with 3 leg overload protection and reset switches are standard.

The Programmable Logic Controller provides automatic alternation and lead-lag control with the option to select either one of the pumps as a permanent lead for periods of pump maintenance. It includes minimum run timers to prevent short cycle operation.

Human Machine Interface (HMI) display includes pump run indication, accumulated run time and alarm conditions.

Field adjustable control switches are pre-set to operate the lead vacuum pump between 19" Hg and 24" Hg.

All controls and alarms will function even if one of the pumps is shut down for maintenance or repairs.

The panel includes a set of dry contacts for connection to the master alarm.

Local "Backup in use" audible and visual alarms are provided per NFPA 99. The audible alarm can be acknowledged with the "Silence" button. The visual alarm will stay on until manually reset.

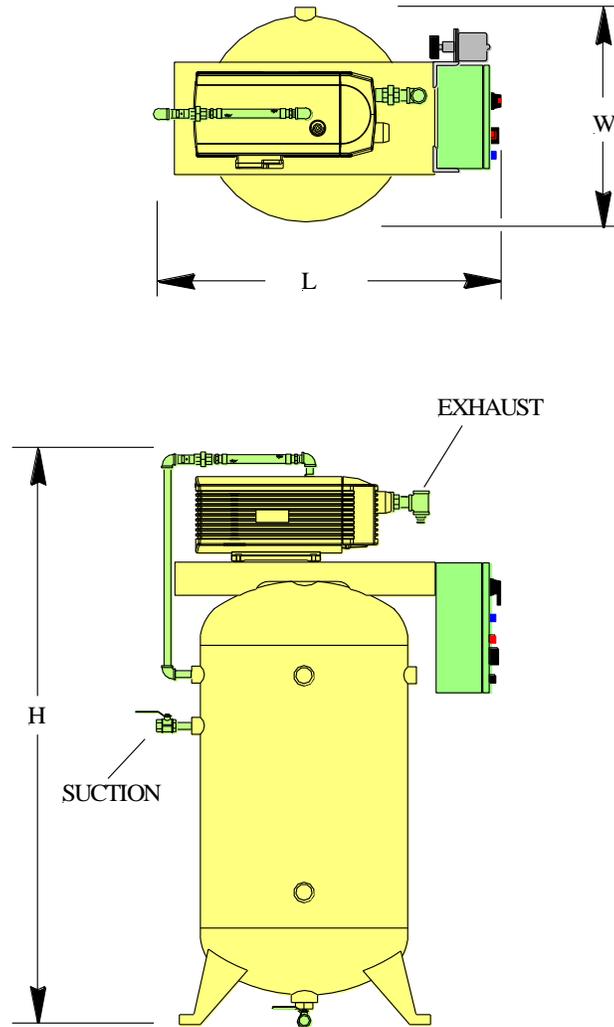
WARRANTY

The Medical Vacuum system is guaranteed by the manufacturer for a period of 12 months from the date of start-up or 18 months from the date of shipment (whichever comes first) against defects in design, materials, or construction. In addition, the bare pumps are guaranteed for 36 months from the date of shipment.

Optional System Accessories

(Only checked options will be supplied)

- Rust protection receiver lining
- Galvanized receiver
- High discharge temperature switches
- External intake filters
- Receiver gauge glass
- Exhaust Muffler



| System Model Number | Horsepower | | Capacity (SCFM) @ 19" Hg | | Suction Conn. | Exhaust Conn. | Tank (gallons) | Dimensions (inches) | | | Weight (lbs.) | System FLA | | |
|---------------------|------------|-------|--------------------------|--------|---------------|---------------|----------------|---------------------|----|----|---------------|------------|------|------|
| | Each | Total | Pump | System | | | | L | W | H | | 208V | 230V | 460V |
| 1SOB1.5T80V | 1.2 | 1.2 | 5.3 | 5.3 | 3/4" | 3/4" | 80 | 40 | 26 | 68 | 380 | 5.9 | 5.6 | 3.1 |
| 1SOB2T80V | 1.7 | 1.7 | 8.0 | 8.0 | 3/4" | 3/4" | 80 | 40 | 26 | 68 | 410 | 5.9 | 5.6 | 3.1 |

Notes:

1. To convert Free Air Capacity (SCFM) to Expanded Air Capacity (ACFM):
At 19" Hg multiply SCFM by 2.74
2. Maximum ambient temperature: 100° F for standard systems, 90° F if equipped with variable speed drive
3. Allow 36 inches in front of control panel for maintenance and 24" clearance on all other sides
4. Dimensions are subject to change

Power Requirements:

(Two) _____ HP Motors, 3 Phase 60 Hertz ___208 v ___230 v ___460 v