

1. DRY ROTARY VANE PUMPS

A. SIMPLEX "SPACE SAVER" VERTICAL TANK MOUNTED VACUUM SYSTEMS

1. Furnish and install, where shown on the drawings a prefabricated simplex "Space Saver" tank mounted dry rotary vane vacuum system model_____ as manufactured by EMSE Corporation, Fairfield, NJ (1-800-935-EMSE).
2. The unit furnished shall be a standard catalog item of the supplier regularly engaged in the business of providing packaged systems for hospitals and laboratories and shall meet and exceed the requirements of NFPA 99.
3. The package shall include one oil-less rotary vane vacuum pump and associated equipment, one vertical ASME tank and a simplex control panel. The only field connections required will be system intake, exhaust and power connection at the control panel. All components shall be completely pre-piped and pre-wired to single-point service connections. All interconnecting piping and wiring shall be completed and operationally tested prior to shipment. Provide liquid tight conduit, fittings and junction boxes for all control and power wiring.
4. The vacuum pump shall be of the oil-less continuous duty rotary vane air-cooled design, equipped with long life, high performance compound vanes, driven by 40 degree C rise, 3 phase, 60 cycle, ODP, NEMA C-Face, design B induction type motors.
5. The vacuum pump shall be driven by a ____ HP, 3 phase, 60 cycle, _____ volt, 1750 RPM, TEFC NEMA C-face, foot mounted motor. The pump shall have a capacity of ____SCFM at 19 "HG.
6. The system shall include the following accessories: inlet check valve, system isolation valve, vacuum control switch, integral inlet filter, exhaust muffler and vacuum relief valve. Provide flexible connectors on inlet and exhaust of the pump, exhaust tee with union, drip-leg with cock valve as well as copper tubing with shut-off cock for gauge and vacuum switch. The system shall include a _____ gallon vacuum storage tank of ASME construction. The tank shall be rated for full vacuum service and shall be equipped with a vacuum gauge and manual tank drain.
7. Provide vibration mounting per NFPA 99.

8. The system shall include a UL listed control panel in a NEMA 12 enclosure with the following accessories:

EMSE Corporation

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- a. Externally operable circuit breaker with door interlock, control circuit transformer with fused primary and secondary coils, H-O-A switch, magnetic starter with 3 leg overload protection, hour meter, motor running light and minimum run timer to prevent short cycle operation.
9. The vacuum system shall be guaranteed in writing 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.
10. The service of a factory trained representative shall be made available at the jobsite to check installation, start-up and instruct operating personnel in the proper operation and maintenance.