



SIMPLEX TANK MOUNTED "SPACE SAVER" LUBRICATED ROTARY VANE VACUUM SYSTEMS 1.5 THROUGH 5 HP

The EMSE CORPORATION tank mounted, simplex vacuum system is a completely packaged NFPA 99 and NEC compliant assembly featuring one rotary vane vacuum pump and a U.L. listed electrical control cabinet mounted on a vertical ASME receiver with 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.

The vacuum pump is continuous duty rotary vane air-cooled type equipped with non-asbestos vanes, having a minimum life of 40,000 hours. The pump is provided with a full recirculated oil supply. The oil separation consists of four stages of oil and smoke eliminators. This system is capable of removing 99.9+% of oil and smoke particles from the exhaust. The vacuum pump is driven by a 3 phase, 60 cycle, TEFC NEMA C-face, foot motor.

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

Also included are an inlet check valve, inlet isolation valve, built-in anti-suck-back valve, inlet filter screen, oil sight gauge, oil drain valve, exhaust pressure gauge, vacuum switch, inlet and discharge flexible connectors and a shut-off cock for the vacuum gauge and vacuum switch.

The system includes a UL listed control panel in a NEMA 12 enclosure. The panel includes the following : externally operable circuit breaker with a door interlock, control circuit transformer with fused primary and secondary coils, H-O-A switch, run light, hour meter, magnetic starter with 3 leg overload protection, reset switch and minimum run timer to prevent short cycle operation. All control circuit components are plug-in type for quick and easy replacement without re-wiring or a system shut-down.

Field adjustable control switches are pre-set to operate the vacuum pump between 20" Hg and 25" Hg. 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.

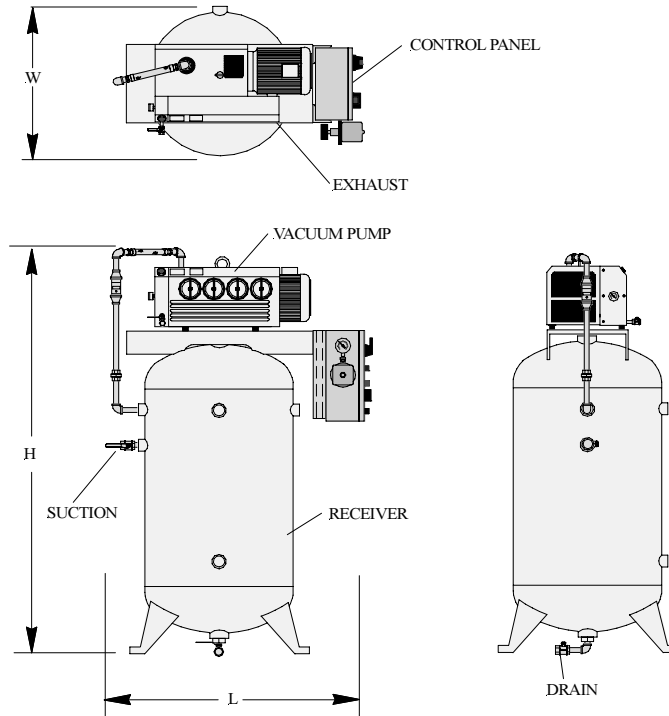


Optional System Accessories

(only checked options will be supplied)

- Rust protection receiver lining
- Galvanized receiver
- Pump intake filter
- Oil temperature gauge
- Receiver gauge glass
- Thermal malfunction shut-down with manual reset and alarm light

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LAYOUT AND PERFORMANCE TABLE**



System Model Number	Horsepower		Capacity SCFM (Each Pump)		Suct. Conn.	Exh. Conn.	Tank (Gal.)	Dimensions, In.			Weight Lbs.
	Each	Total	19" Hg	25" Hg				L	W	H	
1SRR1.5T30V	1.5	1.5	7.4	3.3	3/4"	1/2"	30	34	20	55	340
1SRR1.5T80V	1.5	1.5	7.4	3.3	3/4"	1/2"	80	44	25	67	370
1SRR2T30V	2.0	2.0	12.4	5.6	1"	3/4"	30	34	20	55	360
1SRR2T80V	2.0	2.0	12.4	5.6	1"	3/4"	80	44	25	67	410
1SRR3T30V	3.0	3.0	17.3	8.4	1"	3/4"	30	35	21	56	380
1SRR3T80V	3.0	3.0	17.3	8.4	1"	3/4"	80	44	25	67	430
1SRR5T80V	5.0	5.0	27.5	11.8	1-1/2"	1-1/4"	80	45	25	68	520
1SRR5HT80V	5.0	5.0	37.3	16.2	1-1/2"	1-1/4"	80	45	25	68	520

Note: To convert Free Air Capacity (SCFM) to Expanded Air Capacity (ACFM):

at 19" Hg multiply SCFM by 2.74

at 25" Hg multiply SCFM by 6.1

2. Maximum ambient temperature: 105° F. For higher ambient temperature consult factory.

Power Requirements:

(One) _____ HP Motor, 3 Phase 60 Hertz 208 v 230 v 460 v