

SIMPLEX VACUUM SYSTEM STACK MOUNT LUBRICATED ROTARY VANE 10 HP

The EMSE CORPORATION Industrial vacuum system is a completely packaged assembly featuring an oillubricated 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 PUMP

The Industrial vacuum pump is a continuous duty, rotary vane, air-cooled, 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, 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, motor.

The vacuum pump is supplied with 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, high discharge temperature switch, inlet and discharge flexible connectors and a shut-off cock for gauge and vacuum switches.

RECEIVER

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

CONTROL PANEL

The UL listed control panel is supplied in a NEMA 12 enclosure. Externally operable circuit breakers with a door interlock, control circuit transformer with fused primary and secondary coil, H-O-A switches, magnetic starters with 3 leg overload protection and reset switches are standard. The control panel uses relay logic and vacuum switches to provide on off operation. It includes minimum run timers to prevent short cycle operation and run time indicators. The visual alarm will stay on until manually reset. The panel includes a set of dry contacts for connection to the master alarm.



SIMPLEX VACUUM SYSTEM STACK MOUNT LUBRICATED ROTARY VANE 10 HP

EMSE Standard Control Panel: 4.3" Touchscreen HMI

The control system provides automatic lead/lag sequencing and automatic alternation of all vacuum pumps based on first-on/first-off principle with provision for simultaneous operation if required.

The control panel features:

- A 4.3" Touchscreen with screen displays inclusive of:
 - o Service alerts, runtime hour meters, system status, system vacuum level
 - o Visual/audible alarm indications with isolated contacts for all standard remote alarms
 - o Event log recording alarms and system activity
- NEMA 12 control panel enclosure
- Circuit breaker disconnects for each motor with external operators
- Full voltage motor starters with overload protection
- Vacuum level controlled by a vacuum transducer
- Vacuum switches are provided as a back-up to the vacuum transducer in the event of failure
 - Options:
 - 24V Control Circuit
 - VFD
 - Ethernet connectivity and embedded web page for remote monitoring of alarms and system status
 - BacNet Gateway
 - Modbus

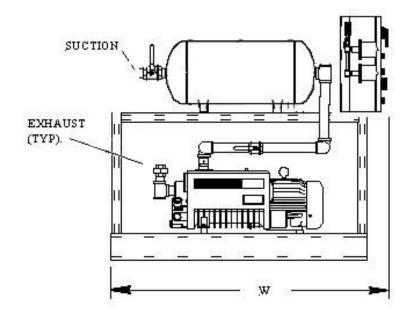
WARRANTY

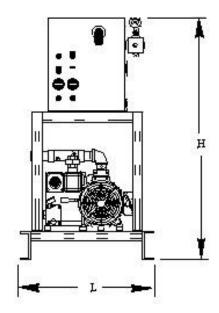
The Industrial Vacuum system is guaranteed by the manufacturer for a period of 30 months from date of shipment from the factory or 24 months from date of start-up, (whichever comes first) against defects in design, materials, or construction.

Optional System Accessories										
	Oxygen Assured Vacuum Pumps		Exhaust Muffler							
	Rust protection receiver lining		Receiver gauge glass							
	Galvanized receiver		Bacteria inlet filter with flask							



SIMPLEX VACUUM SYSTEM STACK MOUNT LUBRICATED ROTARY VANE 10 HP





System Model Number	НР	Capaci	stem ty at 19" SCFM)	at 19" Suction	Exhaust NPT	Tank (gallon)	Dimensions (inches)		Weight (lbs.)	Sound dB(A)	System FLA			
Nulliber		Pump	System				L	W	H			208V	230V	460V
1DRB10S30H	10	77	77	2"	2"	30	32	56	56	985	76	33	28	14

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
- 3. Allow a minimum of 36" clearance in front of control panel and 24" clearance on all other sides
- 4. Dimensions are subject to change