



## Duplex Lubricated Rotary Vane Industrial Vacuum System-Stack Mount

### System Description:

The *Global Vac & Air* Duplex Lubricated Rotary Vane Industrial Stacked Vacuum System is built as two skids bolted together for ease of transport and installation. One skid consists of two lubricated rotary vane vacuum pumps mounted on a vertical frame stacked over one another and piped to a common manifold. The second skid consists of a mounted and wired duplex PLC control panel and vertical receiver. The system is completely tested before shipment and is built with a single point connection for process inlet, and system power. The complete assembly is finished in GLOBALVAC gray and supplied with inlet and discharge flex connectors and vibration pads. The system is piped, wired and factory tested prior to shipment.

### Oil Flooded Rotary Vane Vacuum Pump:

Each vacuum pump is direct driven by a continuous duty TEFC motor available in 208-230/460/3/60 electrical service. Additional electrical supply options available upon request. Each pump is air cooled and rated for continuous operation at an ultimate pressure of 29.9" HgV without overheating. Each pump contains:

- Most efficient IE3 motor in the industry
- Integrated anti suck back valve
- High efficiency oil separator element
- Pump mounted check valve
- 5 micron inlet filter with polyester element
- Pump isolation valve
- Oil tank with dual stage oil separation
- Air cooled oil cooler
- Oil sight glass
- Oil drain valve
- Single shaft direct drive
- Exhaust flex connector
- Inlet flex connector

The vertical vacuum receiver is ASME coded and rated for 200 PSI and full vacuum. The receiver is equipped with sight glass, drain valve, and single point process inlet valve. Multiple receiver size options available.

### Duplex Control Panel:

The system is controlled by a UL labeled duplex mounted and wired control panel.

The control panel is built with:

- Line Voltage Motor Starter with Overload Protection
- 120 Volt Control Transformer with protected Primary and Secondary Circuits
- High temperature switch
- PLC controller with HMI
- Vacuum Gauge
- 4-20 mA vacuum transmitter to control pumps via PLC input
- Selectable; automatic timed alternation, auto alternation, or manual alternation
- NEMA 12 Enclosure
- Pump status indicators integrated into HMI display
- UL Listed
- Dry contacts for remote monitoring
- *Optional: Real Time Automation (RTA) protocol converter for BMS interface*

### Vacuum Receiver:

GLOBALVAC & AIR, 6 Norfolk Ave., So. Easton, MA 02375, Ph:(508)230-9445, Web: [www.globalvacandair.com](http://www.globalvacandair.com)



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Industrial Vacuum System-Stack Mount**

<b>Model Number</b>	<b>Pump motor rating (HP)</b>	<b>Maximum Vacuum (" HgV)</b>	<b>Nominal Capacity (ACFM/pump)</b>	<b>System Capacity @ 19" Hg (SCFM/system)</b>	<b>Receiver Size (Gallons)</b>	<b>System Heat Dissipation @ 19" (BTU/hr)**</b>	<b>System FLA @ 460V / 3 / 60 Hz</b>
VR06D-XXD-20V	6.4	29.9	116	85	200	27,690	18.8
VR08D-XXD-20V	8.9	29.9	141	103	200	38,506	24.9
VR12D-XXD-20V	12.1	29.9	211	155	200	52,351	33.9
VR12D-XXD-24V	12.1	29.9	211	155	240	52,351	33.9
VR17D-XXD-20V	17.7	29.9	299	219	200	76,579	49.6
VR17D-XXD-24V	17.7	29.9	299	219	240	76,579	49.6

\*XX in the model number is a placeholder for system voltage. 43=460V/3/60Hz, 23=230V/3/60Hz, 53=575V/3/60Hz

\*\* All data shown is for 2 pumps operating with a 60 Hz electrical supply