



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

### System Description:

The *Global Vac & Air* Triplex Lubricated Rotary Vane Industrial Stacked Vacuum System is built as two skids bolted together for ease of transport and installation. One skid consists of three 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 triplex 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

### Vacuum Receiver:

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.

### Triplex Control Panel:

The system is controlled by a UL labeled triplex 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*



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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>
VR06T-XXD-20V	6.4	29.9	116	127	200	41,534	28.2
VR08T-XXD-20V	8.9	29.9	141	155	200	57,759	37.4
VR12T-XXD-20V	12.1	29.9	211	232	200	78,526	50.8
VR12T-XXD-24V	12.1	29.9	211	232	240	78,526	50.8

\*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