



## Duplex Oil Less Rotary Vane Industrial Vacuum System-Space Saver

### System Description:

The *Global Vac & Air* Duplex Oil Less Rotary Vane Industrial Vacuum System is built as two oil less rotary vane vacuum pumps mounted on a vertical frame with a 60-gallon horizontal tank mounted above the stacked pumps. The system is completely tested before shipment and is built with single point connection for process inlet, process discharge, and system power. Inlet and discharge manifolds are supplied with a drip leg with ball valve. The complete assembly is finished in GLOBALVAC white and supplied with inlet and discharge flex connectors and vibration pads. The system is piped, wired and factory tested prior to shipment.

### Oil-Less Rotary Vane Vacuum Pump:

The vacuum pumps are 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 its ultimate pressure without overheating. Each pump contains:

- Integrated and pump mounted check valves
- 5 micron inlet filter with polyester element
- Built in suction filter
- Pump isolation valve
- Self-lubricating graphite composite vanes
- Exhaust high temperature switch
- 100% dry operation
- Inlet & outlet flex connector

### Vacuum Receiver:

The 60-gallon horizontal 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. The receiver is epoxy lined for corrosion resistance.

### Duplex Control Panel:

The system is controlled by a UL labeled duplex mounted and wired control panel. The controller provides automatic alternation of the pumps or simultaneous operation if needed. Supplied with comprehensive software package which will display system and pump status and allow adjustment of system parameters.

The control panel is built with:

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



**Duplex Oil Less Rotary Vane  
Industrial Vacuum System-Space Saver**

<b>Model Number*</b>	<b>Pump motor rating (HP)**</b>	<b>Maximum Vacuum (in. HgV)</b>	<b>Nominal Capacity (ACFM/pump)**</b>	<b>System Capacity @ 19" Hg (SCFM/system)**</b>	<b>Receiver size (Gallons)</b>	<b>System BTU/hr**</b>	<b>System FLA @ 460 V / 3 / 60 Hz</b>
VV01F-XXD-06H	1.2	25.1	18	13	60	5,192	5.0
VV02F-XXD-06H	2	25.1	28	21	60	8,653	6.8
VV03F-XXD-06H	3.5	26.6	42	31	60	15,143	11.2
VV04F-XXD-06H	4.8	26.6	66	48	60	20,767	14.6
VV06F-XXD-06H-008	6.4	23.6	91	67	60	27,690	19.5

\*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 assumes 60 Hz electrical supply