

GPRS-XXXX-P-80V
3 - 5 HP Simplex Lubricated Rotary Vane
Laboratory Vacuum System-Vertical Tank mount

SYSTEM DESCRIPTION:

The GLOBALVAC & AIR Simplex Lubricated Rotary Vane Laboratory Vacuum System is built as one lubricated rotary vane vacuum pump mounted and piped to a 80 gallon vertical receiver with a mounted and wired simplex control panel. The system is built with single point connection for process inlet, pump discharge and system power. 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.

ROTARY VANE VACUUM PUMP:

The vacuum pump is direct driven by a continuous duty NEMA rated, TEFC, C-face flanged motor available in 208-230/460/3/60 electrical service. Each pump is air cooled and rated for continuous operation at ultimate pressure without overheating. Each pump contains:

- Internally installed oil separation system
- Spin-on automotive-type oil filter
- Built-in check valve
- Internal inlet screen
- Three highly durable epoxy resin vanes
- Pump mounted secondary check valve
- 5 micron inlet filter with polyester element
- Pump isolation valve
- Oil sight glass
- Oil drain valve
- Exhaust flex connector

AUTOMATIC PURGE SYSTEM:

Each pump is equipped with an automatically controlled purge process. The purge operation consists of an electrically actuated (no compressed air required) normally open solenoid valve closes which isolates the pump from the system while a purge (bleed) solenoid valve opens to atmosphere to remove any gases from the pumping chamber and prevent condensation as the pump cools.

VACUUM RECEIVER:

The 80 gallon vertical vacuum receiver is ASME coded and rated for 200 PSI and full vacuum. The receiver is equipped with sight glass, drain valve, 2" process inlet valve. The receiver is Epoxy Lined for corrosion resistance.

SIMPLEX CONTROL PANEL:

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

The control panel is built with:

- Line Voltage Motor Starter with Overload Protection
- 120 Volt Control Transformer with CB protected Primary and Secondary Circuits
- Hand/Off/Auto Selector Switch
- Vacuum Gauge
- Panel Mounted Vacuum Switch
- Through the Door Disconnect
- Run Light
- Hour Meter
- NEMA 12 Enclosure
- UL Listed