6 Norfolk Avenue, South Easton, MA 02375
Ph: (508) 230-9445, Fax: (508) 230-9446
Website: www.globalvacandair.com

GPRD-XXXX-N-80VF
1.5 - 5 HP Duplex Lubricated Rotary Vane
Medical Vacuum System-Vertical Frame

SYSTEM DESCRIPTION:

The GLOBALVAC & AIR Duplex Lubricated Rotary Vane Medical Vacuum System is built as two lubricated rotary vane vacuum pumps mounted on an assembled frame over an 80 gallon vertical receiver with a mounted and wired duplex NFPA99 compliant PLC control panel. Both pumps are piped to a 2" 3 valve by-pass on the receiver. The system is built with single point connection for process inlet 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
- Inlet and Exhaust flex connector
- High temp switch

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" 3-valve by-pass for servicing the receiver without interrupting the vacuum process. The receiver is Epoxy Lined for corrosion resistance.

Duplex Bacterial Filter Asm (OPTIONAL)

Meets NFPA 99 requirements for vacuum filtration

- ULPA-UL media, 99.99% @ 0.1 micron
- Corrosive resistant aluminum cast head
- Brass valve and fittings for contaminated liquid release
- Glass drain flask for easy removal and sterilization
- Easy read pressure drop indicator gauge
- Shatter proof resistant polycarbonate bucket
- Biohazard label
- By-pass for servicing/alternating filters

DUPLEX NFPA99 PLC CONTROL PANEL:

The system is controlled by UL labeled duplex NFPA99 compliant PLC 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:

- Finger safe power distribution block
- Dual 120V control transformer with CB protection for primary and secondary circuits
- Dual 120vac/24vdc power supply
- Transformer switching circuit to allow backup transformer to power circuit in event of primary transformer failure
- Transformer/Power Supply failure warning circuit, activates system general warning relay and PLC display warning indicator if either should fail
- 7" color OIT with integrated Hand/Off/Auto
- Door mounted system disconnect
- Door mounted Emergency Stop button
- Motor Circuit Protector/Disconnect for each pump externally operated
- Adjustable run-on timer (frequent start protection) integrated into OIT
- Automatic restart after power outage and restoration
- 4-20ma transmitter to control pumps via PLC input
- Selectable, Auto Timed Alternation (default), Auto Alternation or Manual Alternation
- Hourmeter integrated into OIT
- Reserve (Lag) Unit in use indicator with audible alarm
- Pump status indicators integrated into OIT
- General system fault/warning integrated into OIT
- Dry contacts for remote monitoring
- Maintenance screens with adjustable time intervals for tracking critical maintenance items
- UL508A listed NEMA 12 enclosure
- Low vacuum alarm which may be enabled/disabled
- Door mounted Bypass circuit with selector switch, bypasses PLC control and allows continuous operation of all pumps using the motor circuit protector (MCP) disconnects as OFF/ON switches
- Panel mounted vacuum gauge
- StrideLinx cloud management (VPN)
- Ethernet bulkhead for temporary site connection
- 208-230/460/3/60 power input available
- *OPTIONAL: Reat Time Automation (RTA) protocol converter for BMS interface available (Modbus TCP/IP-BACnet/IP Client Gateway)*