

GPVS-XXXX-P-120H
2 - 5 HP Simplex Oil-free Dry Claw
Laboratory Vacuum System-Horizontal Tank mount

SYSTEM DESCRIPTION:

The GLOBALVAC & AIR Simplex Oil-free Dry Claw Laboratory Vacuum System is built as one dry claw vacuum pump mounted and piped to a 120 gallon horizontal 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.

OIL-FREE DRY CLAW 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. The contact free operating principle provides a nearly maintenance-free operation. The pump is oil-free in the pumping chamber and only requires oil change of Gear Oil. Each pump is air cooled and rated for continuous operation at ultimate pressure. Each pump contains:

- Built-in check valve
- Internal inlet screen
- Pump mounted secondary check valve
- 5 micron inlet filter with polyester element
- Pump isolation valve
- Hi-temp discharge switch
- Oil sight glass (GEAR OIL)
- Oil drain valve (GEAR OIL)
- 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.

The 120 gallon horizontal 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

VACUUM RECEIVER: