

NFPA 99 Compliant Pentaplex Oil-Less Claw Medical Vacuum Package 15 HP Base Mounted Modular with Variable Frequency Drive (VFD)

Vacuum Package

- Fully compliant with the latest edition of NFPA 99
- Five oil-less rotary claw type vacuum pumps with inlet filter and isolation valve for each
- Five motors
- ASME coded vacuum receiver with bypass and manual drain
- Pentaplex control panel with automatic lead/lag controls
- All modules completely pre-piped and pre-wired
- Liquid tight conduit, fittings and junction boxes for all control and power wiring
- All interconnecting piping and wiring is completed and operationally tested prior to shipment

Vacuum Pump

- Oil-less rotary claw pump
- Direct-driven through a shaft coupling
- Air-cooled
- End (ultimate) vacuum = 23.4" Hg
- Dry-running, with two claw-type, non-contacting rotors
- Sealing fluid not required
- Virtually maintenance-free operation
- Oil change required at approximately 20,000 operating hour intervals in the gearbox only
- Built-in, anti-suck-back valve mounted at the pump inlet and equipped with an inlet filter for removal of particulates

Vacuum Motor

- NEMA rated
- C-face
- TEFC
- 3600 RPM, with 1.15 service factor
- 208 or 230/460V 3-phase

Intake Piping

- Vacuum pumps are connected to a common manifold
- Inlet check valve on each pump
- Inlet isolation valve on each pump
- Flexible connector between pump and manifold
- Flexible connectors for inlet and discharge and vibration pads included

Vacuum Receiver

- Vertical orientation with integrally mounted 3 valve by-pass
- ASME Code stamped
- National Board Certified
- Rated for a minimum 200 PSIG design pressure
- Vacuum gauge
- Manual drain

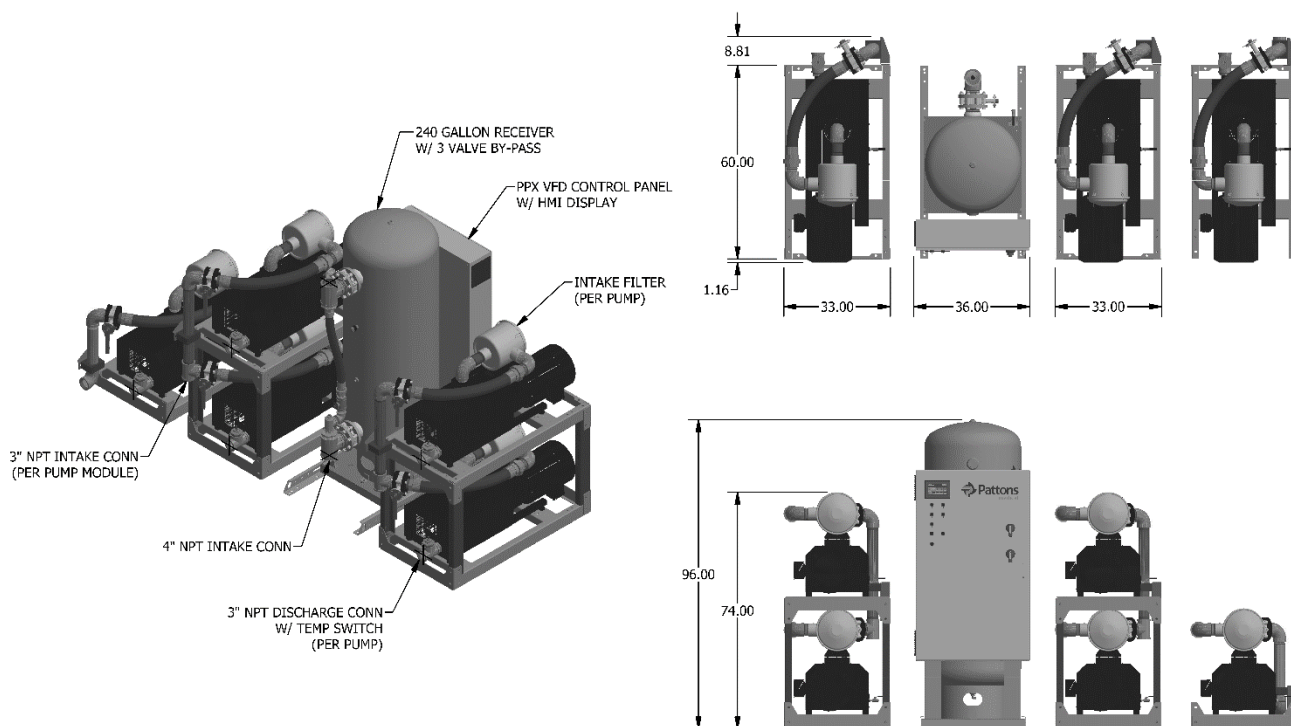
Control System

- Mounted and wired pentaplex control system
- NEMA 12 and U.L. labeled
- Variable frequency drive to control one pump at a time
- Automatic lead/lag sequencing
- Circuit breaker disconnects for each motor with external operators
- Full voltage motor starters with overload protection
- 120V control circuit transformers for each motor circuit
- Visual and audible reserve unit alarm with isolated contacts for remote alarm
- Hand-off-auto selector switches
- Automatic alternation of all vacuum pumps based on a first-on/first-off principle with provisions for simultaneous operation if required
- Automatic activation of reserve unit if required
- Visual and audible alarm indication for high discharge temperature shutdown with isolated contacts for remote alarm
- SIGNAL 1™ – touch screen gateway

Standard Screen displays

- | | |
|-------------------------|--|
| + Vacuum level /Runtime | + Replacement parts |
| + Alarm history | + Troubleshooting guidelines |
| + Service indicator | + Historical trending of system status |
| + Maintenance schedule | |

- + 7" Wide TFT Graphic Touch Screen with Motion Actuated Backlit LED
- + Bright 65,536 (16-bit) Colors
- + Downloadable Trend Information via USB Host Port or Network Device
- + 128MB Flash Memory, 64MB DRAM
- + Built-in Ethernet Port 10/100 Base-T (RJ45)
- + Supports over 100 Communication Protocols including BACnet IP, Ethernet IP, and Modbus TCP/IP
- + With Multiple Ports it can handle three (3) additional Protocols simultaneously
- + Built-in VNC server allowing remote monitoring over Ethernet/Internet network for "Real Time" monitoring of live graphics through standard browser, smart phones and mobile devices.
- + Share data between HMI and Building Management systems with no additional software to implement.



Pentaplex Claw Medical Vacuum Package Specifications ¹										
Model Number	HP	Capacity @19" Hg ²		Package BTU/HR ³	Receiver (gallons)	Noise Level ⁴	System FLA			Weight (lbs.)
		Pump (SCFM)	System (SCFM)				A 208V	B 230V	C 460V	
74v-53-155A	15	129	516	176,000	240	88.5	197			5,903
74v-53-155B								178		
74v-53-155C									89	

Notes:
¹ Normal Operating conditions at a maximum ambient of 105° F. Consult factory for higher ambient conditions.

² Capacities are shown as NFPA system capacities (reserve vacuum pump on standby).

³ Package BTU/HR are shown with the reserve pump on standby.

⁴ Noise levels are shown in dB(A) and reflect four pumps running.

Statement of Warranty

Patton's Medical warrants all Medical Vacuum packages, to be free of defects in material and workmanship under normal use for a period not to exceed thirty (30) months from date of shipment, or twenty-four (24) months from date of start-up.