

Triplex Lubricated Rotary Vane Lab Vacuum Package 7.5 HP Base Mount Single Point Connection
Vacuum Package

- Three lubricated rotary vane type vacuum pumps with inlet filter and isolation valve for each
- Three motors
- ASME coded vertical air receiver with bypass and manual drain
- Triplex control panel with automatic lead/lag controls
- All components completely pre-piped and pre-wired to single point service connections
- Vibration isolation mountings
- 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

- Lubricated rotary vane pump
- Three non-metallic, non-asbestos vanes with minimum life of 30,000 hrs.
- Direct-driven through a shaft coupling
- Air-cooled
- End (ultimate) vacuum = 29.3" Hg
- Integral, fully recirculating oil supply
- Spin-on oil filter
- High discharge temperature switch
- Oil drain valve assembly with temperature gauge
- Integral oil separation system with three stage oil and smoke eliminators capable of removing 99.9+% of particles from the exhaust gas stream
- Built-in, anti-suck-back valve mounted at the pump inlet
- Inlet filter for removal of particulates
- Shipped with initial charge of pump fluid

Vacuum Motor

- NEMA rated
- C-face
- TEFC
- 208 or 230/460V 3-phase

Intake Piping

- Vacuum pumps are connected to a common manifold and piped to a vertical receiver
- Inlet check valve on each pump
- Inlet isolation valve on each pump
- Flexible connectors between pumps and receiver
- Flexible connectors for discharge connections

Vacuum Receiver

- Vertical orientation with integrally mounted bypass and manual drain
- ASME Code stamped
- National Board Certified
- Rated for a minimum 200 PSIG design pressure
- Vacuum gauge
- Manual drain

Control System

- Mounted and wired quadruplex 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 and VFD contactors 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

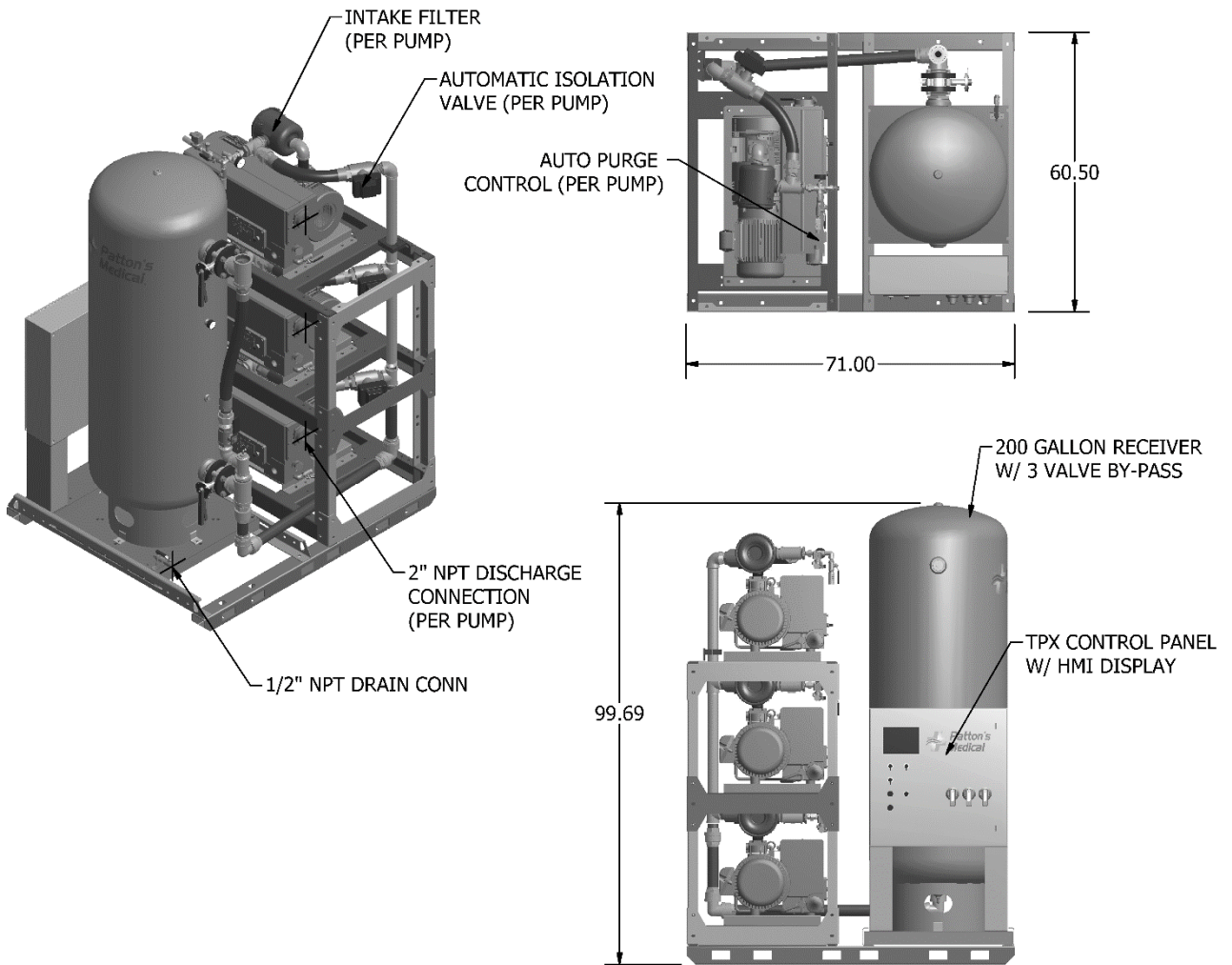
Standard Screen displays

- | | |
|-------------------------|--|
| + 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.

Automatic Purge Control

- Each pump intake is equipped with a auto purge valve and automatic isolation valve
- Minimum run and purge cycle are controlled via SIGNAL 1 purge control function
- Selection of automatic purge, manual purge, or purge off
- 15 minute purge cycle per pump



Triplex Lab Vac Package Specifications ¹									
Complete Model Package Model N.	HP	Capacity @ 19" Hg ²		Package ³ BTU/HR	Noise Level ⁴	System FLA			Package Weight
		Pump (SCFM)	Pump (SCFM)			208V	230V	460V	
73L-33-074A	7.5	52	156	50,933	85	87			3450
73L-33-074B							84		
73L-33-074C								42	

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 Receivers of 240 gallon capacity are standard
- ⁵ Noise levels are shown in dB(A) and reflect reserve pump on standby.

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.