

SPECIFICATION

75L-34-103 75Lv-34-103 75L-34-104 75Lv-34-104 75L-34-105 75Lv-34-105

Triplex "Oil-Less" Claw Lab Vacuum Package 10 HP (Fixed Speed or VFD) Base Mount Modular with Automatic Purge Control

Vacuum Package

- Three oil-less rotary claw type vacuum pumps with inlet filter and isolation valve for each
- ASME coded vacuum 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 (per module)
- 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 (per module)

Vacuum Pump

- Oil-less rotary claw pump
- · Direct-driven through a shaft coupling
- · Air-cooled
- End (ultimate) vacuum = 28" Hg
- Dry-running, with two claw-type, non-contacting rotors
- · Sealing fluid not required
- Virtually maintenance-free operation
- High discharge temperature switch
- Oil change required at approximately 5,000 operating hour intervals in the gearbox only
- Built-in, anti-suck-back valve mounted at the pump inlet
- 2 micron inlet filter for removal of particulates

Vacuum Motor

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

Vibration Isolation System

- Vacuum and motor fully isolated from the package base by means of a four-point, heavy duty, isolation system
- Minimum of 95% isolation efficiency
- Optional seismically restrained isolators at an additional cost

Intake/Discharge Piping

- Vacuum pumps are connected per module
- Inlet check valve on each pump
- Inlet isolation valve on each pump
- · Flexible connectors between pumps and manifold
- Flexible connectors for inlet and discharge connections
- Discharge flex connection shipped loose

Vacuum Receiver

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

System Health

- Monitoring and Trending of key components to provide notification of potential issue with the Health of the System
- Vacuum monitoring
- · Current monitoring for each motor
- Ambient Temperature monitoring
- Trending of pumps running

Control System

- Mounted and wired triplex control system
- NEMA 12 and UL 508A labeled
- 75Lv only: Variable frequency drive to control one pump at a time
- Automatic lead/lag sequencing
- Circuit breakers
 - 75L: One for each motor with external operators
- 75Lv: One external disconnect, but internally one for VFD and one for each motor
- 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 for reliable back-up
- Automatic alternation of compressors based on a first-on/first-off principle with provisions for simultaneous operation
- Automatic activation of reserve unit if required
- Visual and audible alarm indication for high discharge air temperature shutdown with isolated contacts for remote alarm
- SIGNAL 1TM touch screen gateway

Standard Screen Displays

- + Air level/Runtime + Replacement parts
- + Alarm history + Troubleshooting guidelines
- + Service Indicator + Historical trending of system status
- + Maintenance Schedule + System Health
- 7" Wide TFT Graphic Touch Screen with Motion Actuated Backlit LED and 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 Ethernet IP, and Modbus TCP/IP
- Built-in VNC server allowing remote monitoring of live graphics through standard browser, smart phones & mobile devices
- Share data between HMI and Building Management systems

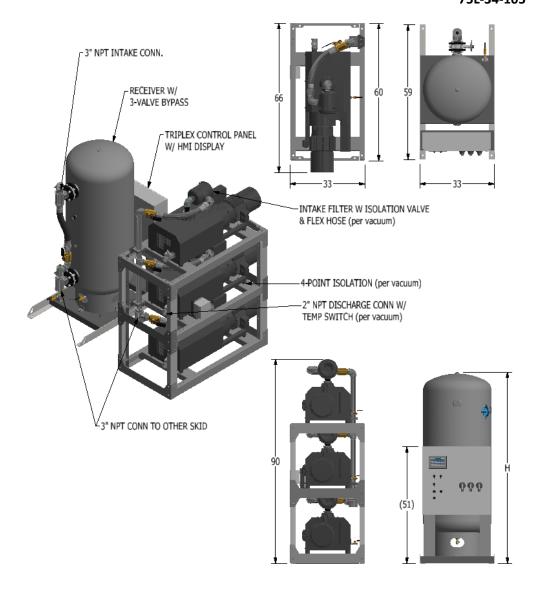
Automatic Purge Control

- Each pump intake is equipped with an automatic 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
- · Can be set to exit purge if vacuum falls below a setting



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Triplex Claw Lab Vacuum Package Specification											
Model Number	НР	Capacity @19" Hg ²				System FLA			Receiver		Package
		Pump (SCFM)	System (SCFM)	Package BTU/HR ³	Noise Level ⁴	208V (A)	230 (B)	460 V (C)	Size (gallons)	L (inches)	Weight (pounds)
75L-34-103(A/B/C)	10	87	261	76,500	89.5	81	73	37	120	79	3,478
75Lv-34-103(A/B/C)											3,518
75L-34-104(A/B/C)									200	84	3,528
75Lv-34-104(A/B/C)											3,568
75L-34-105(A/B/C)									240	96	3,846
75Lv-34-104(A/B/C)											3,886

Notes

- ¹ Normal Operating conditions at a maximum ambient of 105° F. Consult factory for higher ambient conditions.
- ² Capacities are shown with all pumps running.
- ³ Package BTU/HR are shown with all pumps running.

Statement of Warranty

Patton's Medical warrants all Medical Air 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.

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