

SPECIFICATION

70BI-24-073 70BI-24-074 70BI-24-075

NFPA 99 Compliant Duplex Oil-Less Rotary Vane Medical Vacuum Package 7.5 HP Base Mount Modular

Vacuum Package

- Fully compliant with the latest edition of NFPA 99
- Two oil-less rotary vane type vacuum pumps with integrated inlet filter and isolation valve for each
- ASME coded vacuum receiver with bypass and manual drain
- Duplex 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

- Dry rotary vane type pump
- Self-lubricating carbon/graphite vanes
- Direct-driven through a shaft coupling
- · Air-cooled
- Internal inlet filter for removal of particulates
- · Vacuum relief valve
- · Check valve to prevent backflow through off-cycle units
- · Sealing fluid not required
- Vibration Isolation

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

Intake/Discharge Piping

- Vacuum pumps are connected to a common manifold and piped to a receiver
- 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

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

Bacterial Filters

- Additional filter per vacuum for compliance with NFPA 99 Health Care Facilities Codes (starting with 2018 revision)
- Particulate removal >99.995% efficiency
- Minimizes microbial contamination of vacuum pump and surrounding environment
- · Glass drain flask for easy removal and sterilization

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

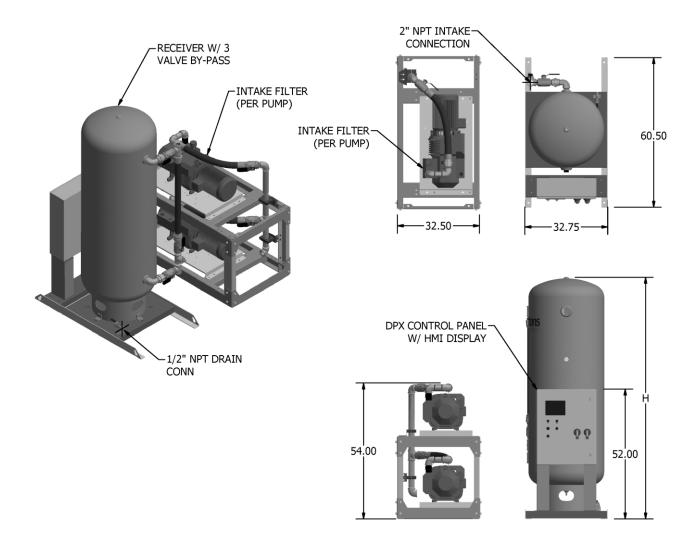
- Mounted and wired duplex control system
- NEMA 12 and UL 508A labeled
- · Automatic lead/lag sequencing
- Circuit breaker disconnects for each motor with external operators
- Full voltage motor starters with overload protection
- 120V control circuit transformers for each motor circuit
- Visual and audible reserve unit alarm with isolated contacts for remote alarm
- Hand-off-auto selector switches 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

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Duplex Oil Less Rotary Vane Medical 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)	230V (B)	460V (C)	Size (gallons)	H (inches)	Weight (pounds)
70BI-24-073(A/B/C)	7.5	32	32	15,270	79	49	44	25	120	83	1,950
70BI-24-074(A/B/C)									200	88	2,180
70BI-24-075(A/B/C)									240	100	2,230

Notes:

- ¹ Normal Operating conditions at a maximum ambient of 105° F. Consult factory for higher ambient conditions.
- ² Capacities are shown per NFPA 99 standard with one pump in reserve.
- ³ Package BTU/HR are shown with one pump in reserve.
- ⁴ Noise levels are shown in dB(A) and reflect one vacuum modules in reserve.

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.