

SPECIFICATION

68-21-032_X-L0000A0 68-21-033 X-L0000A0 68-21-034_X-L0000A0

Duplex "Oil-Less" Scroll Lab Air Package

3 HP Horizontal Tank Mounted with Single Point Connection and Desiccant Dryers

Air Compressor Package

- Two "oil-less" scroll air compressor modules with inlet filters
- ASME coded corrosion resistant air receiver with bypass
- Duplex desiccant air dryer system with purge control and piped with duplex pre-filters, after filters and regulators
- Duplex control panel with HMI control monitoring system
- All discharge air piping and fittings ASTM B-819 copper tubing, brass and/or stainless steel
- All discharge flex connectors braided, 304 stainless steel
- Individual compressor isolation valve
- All components completely pre-piped and pre-wired to single point service connections
- All interconnecting piping and wiring is completed and operationally tested prior to shipment
- · Liquid tight conduit, fittings and junction boxes for all control and power wiring

Air Compressor Module

- Continuous duty rated
- Air-cooled single stage scroll type
- · Constructed of one fixed and one orbiting scroll sealed with PTFE tip seals between the scroll halves
- Rated for 120 psig discharge pressure
- Protected from dust or contamination with a two-part face seal
- Drive/Orbiting bearings grease filled -10,000hour maintenance
- Scroll housing constructed of die cast aluminum
- Integral cooling and air ducting for maximum heat dissipation
- Stationary pumps and motor for ease of alignment •
- Air-cooled aftercoolers for each compressor module with maximum approach temperature of 15° F and automatic solenoid drain valves
- · V-belt drive with means of adjustment
- OSHA approved, totally enclosed belt guard
- High discharge air temperature shutdown switch wired to the ٠ compressor control system for each compressor
- Discharge line valve for load-less starting •
- Each compressor discharge line equipped with a safety relief valve, a check valve, isolation valve, and flex connector

Compressor Motor

- NEMA rated Open drip proof
- 3600 RPM, with 1.15 service factor
- 208 or 230/460V

Vibration Isolation System

- · Compressor 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 Dryer/Filter/Regulator System
- Dual desiccant air dryers with an integral demand-based purge saving control system (sized for all pumps running)
- Each dryer individually sized for peak calculated demand and capable of producing a -40° F (-40° C) pressure dew point
- High efficiency coalescing pre-filter rated for 0.01 micron on each dryer with automatic drain and element change indicator
- Particulate final line filters rated for 0.01 micron on each dryer with element change indicator
- · Final line regulators and safety relief valves on each dryer
- Isolation valves to permit servicing without shutting down the
- medical air system
- Air sample port

Air Receiver

- Corrosion Resistant and integrally mounted with 3-valve bypass
- ASME Code stamped and National Board Certified
- Rated for a minimum 200 PSIG design pressure •
- Liquid level sight glass
- Safety relief valve
- Manual drain and Automatic timed solenoid drain valve •
- **Pressure Gauge**

Dew Point Hygrometer

- Dew point hygrometer monitor pre-piped, wired and includes remote alarm contact
- Hygrometer sensor ceramic type
- Accuracy minimum of $\pm 2^{\circ}$ F for dew point
- Dew point alarm factory set at 36 F (2° C) per NFPA 99
- Set point field adjustable
- High dew point indicated with visual/audible alarms

System Health

- Monitoring and Trending of key components to provide notification of potential issue with the Health of the System
- Pressure monitoring
- Current monitoring for each motor
- Ambient Temperature monitoring
- **Dew Point monitoring**

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 1[™] touch screen gateway

Standard Screen Displays

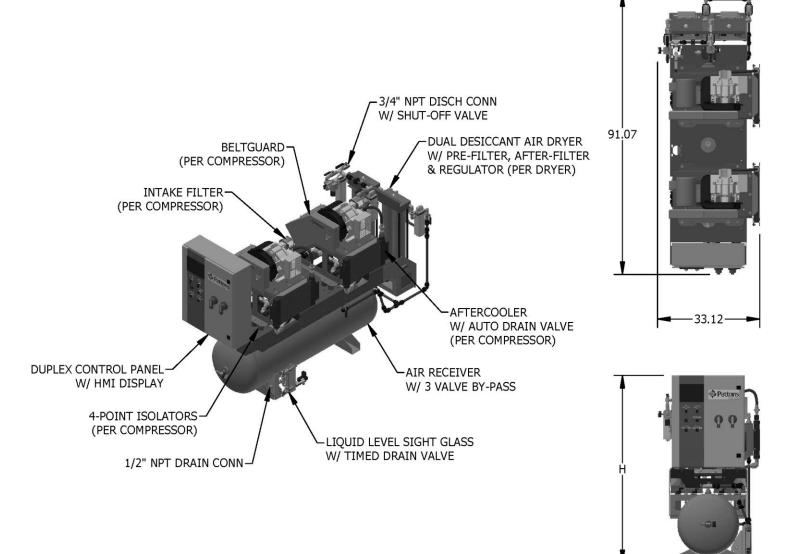
- + Air level/Runtime
 - + Replacement parts + Troubleshooting guidelines
- + Maintenance Schedule + System Health
- 7" Wide TFT Graphic Touch Screen with Motion Actuated Backlit LED and Bright 65,536 (16-bit) Colors
- Downloadable Trend Information via USB Host Port or Network Device
- 128MB Flash Memory, 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

- + Alarm history + Service Indicator
 - + Historical trending of system status

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Duplex Scroll Lab Air Package Specifications ¹											
Model Number	НР	System Capacity ²				System FLA					
		50 psig	120 psig	Package BTU/HR ³	Noise Level ⁴	208V (A)	230V (B)	460V (C)	Receiver (gallons)	H (inches)	Weight (pounds)
68L-21-032(A/B/C)X-L0000A0-000	3	20.8	17	13,490	71	19	17	9	80	<mark>61</mark>	1,015
68L-21-033(A/B/C)X-L0000A0-000									120	<mark>68</mark>	1,140
68L-21-034(A/B/C)X-L0000A0-000									200	74	1,278

Notes:

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

² Capacities are shown as all pumps running and are shown in Inlet Cubic Feet per Minute (ICFM).

³ Package BTU/HR are shown with all pumps running.

⁴ Noise levels are shown in dB(A) and reflect two compressor modules running.

Statement of Warranty

Patton's Medical warrants all **Lab** 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.