

NFPA 99 Compliant Quadruplex "Oil-Less" Scroll Medical Air Package 10 HP Base Mounted with Single Point Connection and Desiccant Dryers

Air Compressor Package

- Fully compliant with the latest edition of NFPA 99
- Four "oil-less" scroll air compressor modules with inlet filter, isolation valve and high inlet vacuum switch for each
- Four motors
- 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
- Quad control panel with HMI control monitoring system
- All discharge air piping and fittings - ASTM B-819 copper tubing, brass and/or stainless steel
- All brazed joints are per NFPA 99
- All discharge flex connectors - braided, 304 stainless steel, brass or bronze
- Integral three-valve bypass that allows individual compressor isolation
- 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 with permanently lubricated, sealed bearings
- Single stage scroll type
- Air-cooled
- 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
- Orbiting bearings - grease filled
- Drive Bearings – Grease filled and lip sealed
- Drive bearing maintenance interval – 10,000 hours
- Scroll housing constructed of die cast aluminum
- Integral cooling fan and air ducting for maximum heat dissipation
- 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 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 provided at an additional cost.

Air Receiver

- Galvanized and integrally mounted with 3-valve bypass
- ASME Code stamped

- National Board Certified
- Rated for a minimum 150 PSIG design pressure.
- Liquid level sight glass
- Safety relief valve
- Manual drain
- Automatic timed solenoid drain valve

Dryer/Filter/Regulator System

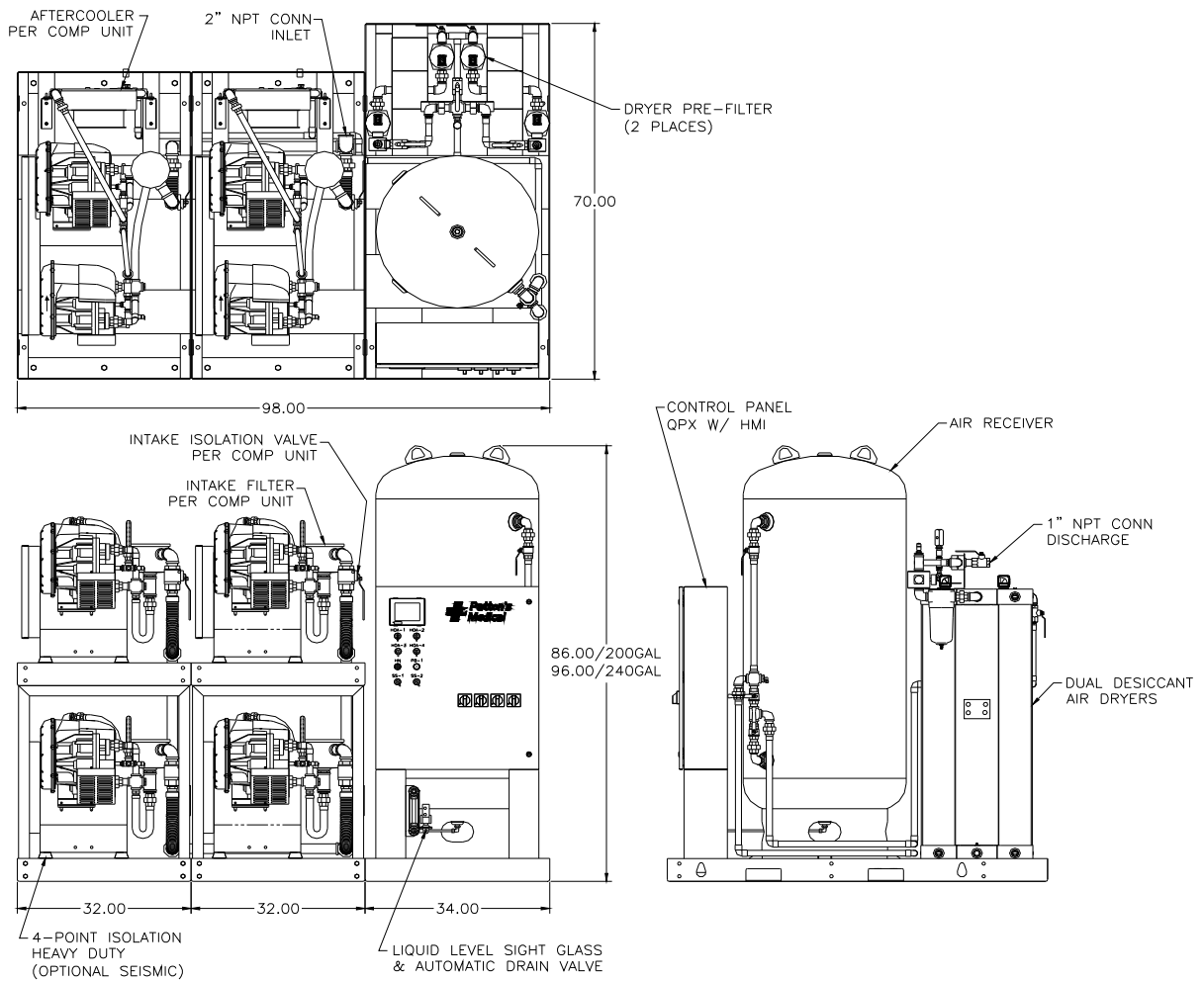
- Dual desiccant air dryers with an integral demand based purge saving control system
- Each dryer individually sized for peak calculated demand and capable of producing a 10° F (-12° C) pressure dew point
- High efficiency coalescing pre-filter rated for 0.01 micron mounted on each dryer with automatic drain and element change indicator
- Automatic solenoid drain valve on coalescing filter
- Particulate final line filters rated for 0.01 micron mounted on each dryer with element change indicator
- Final line regulators and safety relief valves mounted on each dryer
- Isolation valves to permit servicing without shutting down the medical air system
- Air sample port

Dew Point Hygrometer/CO Monitor

- Dew point hygrometer/CO monitor with integral chemical CO sensor - mounted, pre-piped, wired and includes remote alarm contacts
- Hygrometer sensor - ceramic type
- Accuracy - minimum of $\pm 2^\circ$ F for dew point and ± 2 PPM (at 10 PPM) for carbon monoxide
- Dew point alarm - factory set at 36° F (2° C) per NFPA 99
- CO alarm - factory set at 10 PPM
- Both set points field adjustable
- High CO and high dew point conditions indicated with visual and audible alarms.

Control System

- Mounted and wired quadruplex control system
- NEMA 12 and U.L. labeled
- HMI (Human Machine Interface) – touch screen display
 - + pressure display
 - + runtime display
 - + dew point/CO monitoring
 - + 4-day dew point trend display
 - + alarm history display
 - + maintenance schedule and history display
 - + service indicator
 - + replacement parts display
 - + battery backup for history display
- 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 both compressors 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 air temperature shutdown with isolated contacts for remote alarm



FOR A COMPLETE GENERAL ASSEMBLY DRAWING (#100-04-016) CONTACT PATTON'S MEDICAL

Quadplex Scroll Medical Air Package Specifications ¹										
Complete Package Model No.	HP	System Capacity ²		Package ³ BTU/HR	Receiver ⁴	Noise Level ⁵	System FLA			Package Weight
		50 psig	110 psig				A 208V	B 230V	C 460V	
62-43-104A	10	104.0	96.0	69,042	200 Gal.	78	120			4118
62-43-105A					240 Gal.					4193
62-43-104B					200 Gal.		104		4118	
62-43-105B					240 Gal.					4193
62-43-104C					200 Gal.		52		4118	
62-43-105C					240 Gal.					4193

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 compressor on standby) and are shown in Inlet Cubic Feet per Minute (ICFM).
- ³ Package BTU/HR are shown with the reserve compressor on standby.
- ⁴ Receivers of 200 gallon capacity are standard
- ⁵ Noise levels are shown in dB(A) and reflect three compressor modules 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.