



60-35-074-PDS

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# NFPA 99 Compliant Triplex "Oil-Less" Reciprocating Medical Air Package 7.5 HP Vertical Stacked Space Saver with Desiccant Dryers

## **Air Compressor Package**

- Fully compliant with the latest edition of NFPA 99
- Three oil-less reciprocating air compressors with inlet filter and isolation valve
- · Three 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
- Triplex 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
- 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 with permanently lubricated, sealed bearings
- Air-cooled single stage reciprocating type
- Corrosion resistant reed type valves with stainless steel reeds
- Compression rings and rider rings made from a long life, fluororesin material designed for continuous duty operation
- Crankshaft constructed of a durable nodular graphite cast iron not aluminum
- Crankcase fully supported on both ends by heavy duty ball bearings permanently lubricated and sealed
- Cast aluminum alloy cylinders treated for optimum corrosion and wear resistance assure maximum heat dissipation
- Cylinder sleeves not required
- Insulated "heat cut" piston pin minimizes heat transmission from the piston wall to the piston pin needle bearing
- Connecting rod one-piece design for maximum reliability
- 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
- 1800 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

#### Air Receive

- Galvanized and integrally mounted with 3-valve bypass
- ASME Code stamped National Board Certified
- Rated for a minimum 200 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 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
- Air sample port

#### **Dew Point Hygrometer/CO Monitor**

- Dew point hygrometer/CO monitor with integral chemical CO sensor - pre-piped, wired and includes remote alarm contacts
- Hygrometer sensor ceramic type
- Accuracy minimum of ± 2° 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 dew point indicated with visual/audible alarms

# **Control System**

- Mounted and wired triplex control system
- NEMA 12 and U.L. 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 lighted selector switches
- Automatic alternation of compressors based on a first-on/firstoff 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<sup>™</sup> touch screen gateway

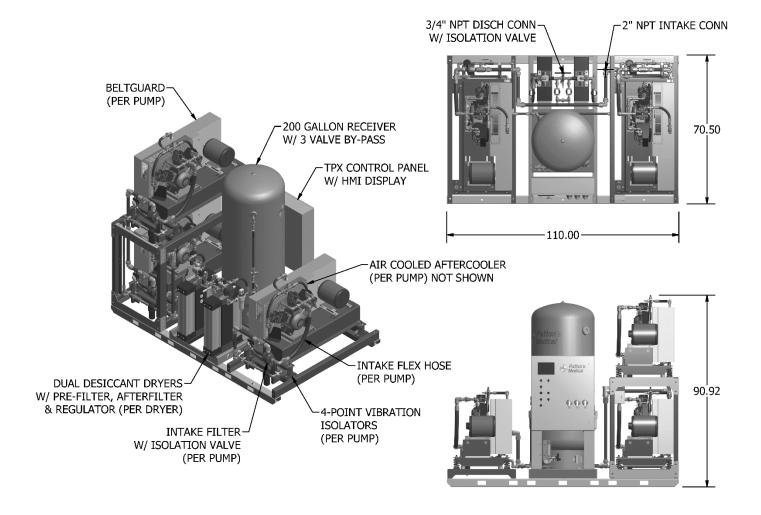
# Standard Screen Displays

- + Air 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 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 BACnet IP, Ethernet IP, and Modbus TCP/IP
- + Built-in 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 & mobile devices
- + Share data between HMI and Building Management systems with no additional software to implement





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Triplex Reciprocating Medical Air Package Specifications <sup>1</sup>										
Complete		System Capacity <sup>2</sup>		Dookogo3		Noise	System FLA			Package
Package Model No.	HP	50 psig	100 psig	Package <sup>3</sup> BTU/HR	Receiver	Level <sup>4</sup>	A 208V	B 230V	C 460V	Weight
60-35-074A		58	52.6	34,124	200 Gallon	81	74			3855 lbs.
60-35-074B	7.5							67		
60-35-074C									33	

#### Notes

- <sup>1</sup> Normal Operating conditions at a maximum ambient of 105° F. Consult factory for higher ambient conditions.
- <sup>2</sup> Capacities are shown as NFPA system capacities (reserve compressor on standby) and are shown in Inlet Cubic Feet per Minute (ICFM).
- <sup>3</sup> Package BTU/HR are shown with the reserve compressor on standby.
- <sup>4</sup> Noise levels are shown in dB(A) and reflect one compressor module 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.