

**Quadruplex Lubricated Reciprocating Instrument Air Package-Space Saver  
15 HP Base Mount with Single Point Connection and Desiccant Dryers**

**Air Compressor Package**

- Four two-stage pressure lubricated reciprocating air compressor modules with inlet filters
- Four motors
- ASME coded corrosion resistant air receiver with bypass
- Duplex desiccant air dryers with purge control and piped with a coalescing pre-filters, particulate after filter activated charcoal filter and regulators
- Quadruplex 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
- Compressor isolation valve
- All components completely pre-piped and pre-wired
- 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**

- Two-stage splash lubricated reciprocating type
- Sturdy, robust cast iron crankcase
- Deep finned cast iron cylinders, aluminum cooler tubes ensuring superior heat dissipation for higher operating efficiency
- Optimal distribution of load on cylinders for energy efficiency
- Air-cooled
- Stainless steel valve assemblies
- Aero dynamically designed fan with large blades for higher flow
- Forged steel crankshaft supported at both ends for higher dynamic stiffness and least vibrations
- Low expansion aluminum alloy pistons
- Totally enclosed belt guard-OSHA approved
- Load-less starting
- Compressor discharge line equipped with a safety relief valve, check 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
- 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
- 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 250 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 - pre-piped, wired and includes remote alarm contacts
- Hygrometer sensor - ceramic type
- Accuracy - minimum of  $\pm 2^\circ$  F for dew point
- Dew point alarm - factory set at -22° F (-30° 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

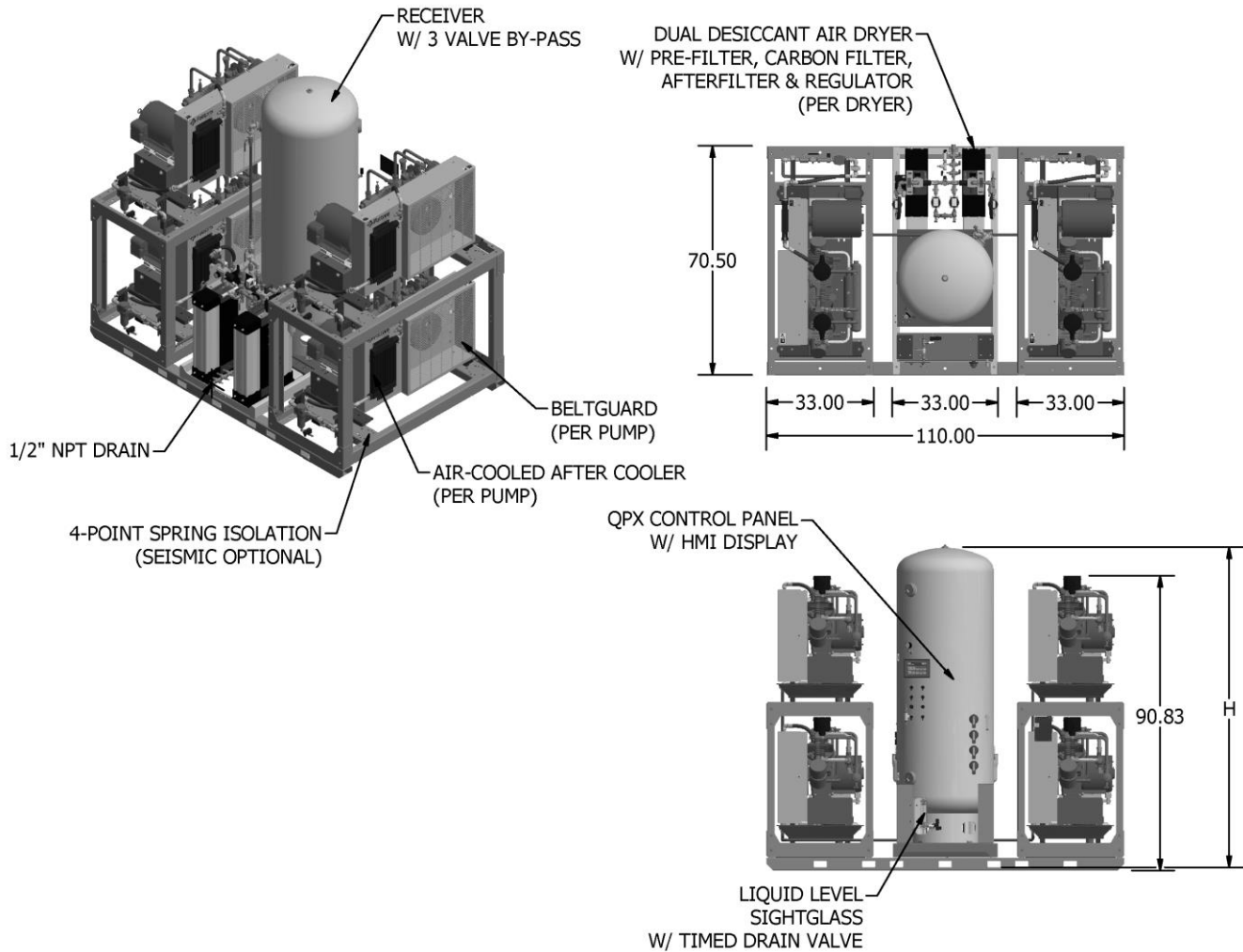
**Control System**

- Mounted and wired quadruplex 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                    |
| + 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



Quadruplex Reciprocating Instrument Air Package Specifications <sup>1</sup>										
Model Number	HP	CFM <sup>2</sup> 188 psi	Package BTU/HR <sup>3</sup>	Noise Level <sup>4</sup>	System FLA			Receiver Size (gallons)	Height (H) (inches)	Package Weight (pounds)
					208V (A)	230 (B)	460V (C)			
67e-45-153(A/B/C)	15	105	114,602	89	164	148	74	120	83	5,169
67e-45-154(A/B/C)					200	180	74	200	89	5,346
67e-45-155(A/B/C)					240	180	74	240	100	5,410

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 Actual 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) with the reserve pump on standby.

Statement of Warranty

Patton's Medical warrants all Instrument 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.