



DUPLEX STACK MOUNTED "X" SERIES MEDICAL AIR SYSTEMS 7.5 THROUGH 15 HP

The EMSE CORPORATION continuous duty Medical Air system is stack mounted, completely packaged NFPA 99 and NEC compliant system featuring 100% oil-less air compressors, U.L. listed electrical control cabinet, an ASME receiver and all the accessories required to meet and exceed the current code requirements. All components are pre-piped and pre-wired to single-point service connections. The only field connections are air intake, air discharge and power at the control panel. All interconnecting piping and wiring is complete and operationally tested prior to shipment. Liquid tight conduit, fittings and junction boxes are provided for all control and power wiring.

The medical air compressors are oil-less reciprocating, air-cooled. Connecting rod and bearings are sealed with life-time lubrication. **No oil is used in the operation of the compressors. The air is 100% oil-free.** Cooling is provided by a radial fan with a shroud.

Compressors are V-belt driven by 3 phase, 60 cycle, 1750 RPM, NEMA design B motors. Slide bases for belt tension adjustment and totally enclosed OSHA approved belt guards are provided.

The system includes a corrosion resistant receiver tank of ASME construction rated for 200 PSI MWP service. The tank is equipped with a pressure gauge, safety relief valve, 3 way by-pass, gauge glass and electronic tank drain with manual override.

Also included for each compressor are spring vibration isolators, check valves, safety relief valves, intake and discharge flexible connectors, solenoid unloaders, high discharge temperature switches for each cylinder and isolation valves.

The system includes a UL listed control panel in a NEMA 12 enclosure. The panel includes the following for **each** pump: externally operable circuit breaker with a door interlock, control circuit transformer with fused primary and secondary coils, H-O-A switch, run light, hour meter and magnetic starter with 3 leg overload protection and reset switch. The panel is equipped with a multiple position selector switch for selection of normal operation (automatic alternation) or manual selection of lead and lag pumps if one is taken out of service due to scheduled maintenance.

Local audible and visual alarms are provided per NFPA 99 for compressor thermal malfunction, "Backup in use", high dew point and high carbon monoxide. The alarms include indicating lights and a horn. The thermal malfunction shut-down is provided with a manual reset. The audible alarm can be cancelled with the "Silence" button.



The visual alarm remains energized until the problem is corrected. Each alarm function includes a set of dry contacts for connection to the master alarm. All control and alarm functions remain energized while any compressor in the system remains electrically on-line.

Field adjustable control switches are pre-set to operate the lead compressor between 80 PSIG and 100 PSIG. The lag compressor will automatically start at 75 PSIG if the lead compressor fails to operate.

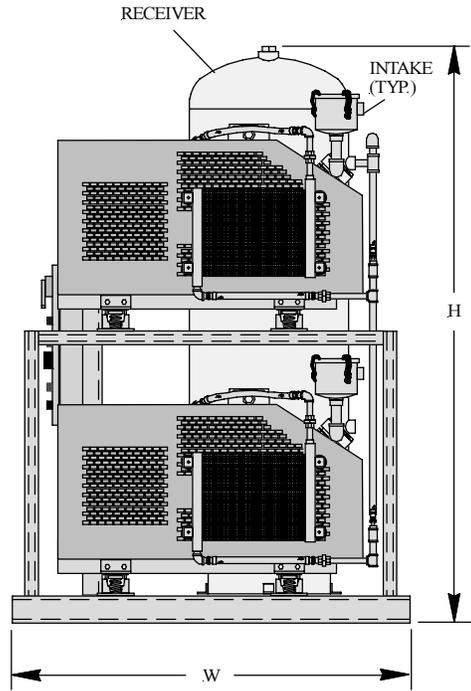
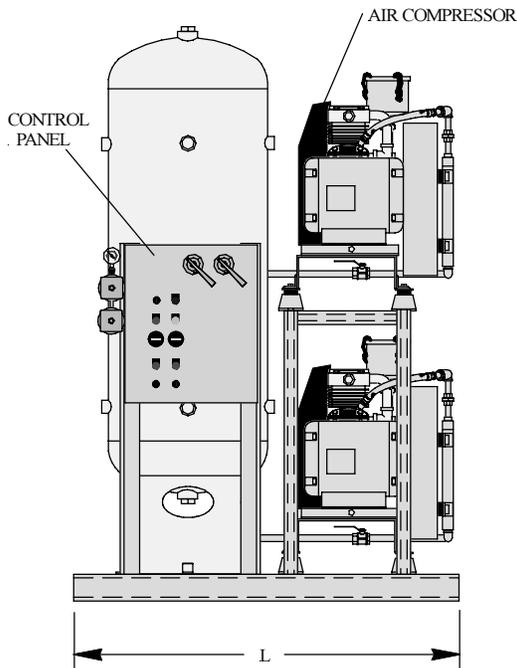
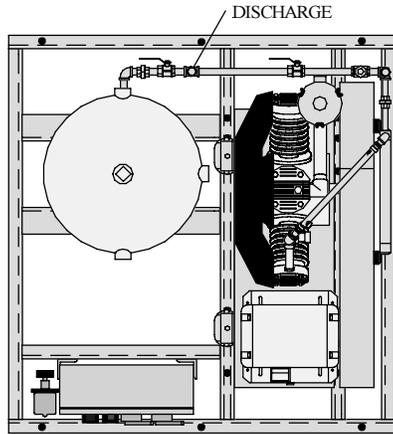
The Medical Air Plant is guaranteed by the manufacturer for a period of 12 months from the date of start-up or 18 months from the date of shipment (whichever comes first) against defects in design, materials, or construction. In addition, the compressors are guaranteed for 36 months from the date of shipment.

Optional System Accessories

(only checked options will be supplied)

- "Dura-coat" rust protection receiver lining
- Galvanized receiver
- Air-cooled aftercoolers
- Dual medical air treatment system with refrigerated air dryers
- Dual medical air treatment system with desiccant air dryers

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LAYOUT AND PERFORMANCE TABLE**



System Model Number	Horsepower		Capacity SCFM (Each Pump)		Disch. Conn.	Tank (Gal.)	Dimensions, In.			Weight Lbs.
	Each	Total	50 PSIG	100 PSIG			L	W	H	
3DOX7.5S120	7.5	15	28.6	27.6	3/4"	120	58	60	88	1900
3DOX10S120	10	20	39.2	35.0	3/4"	120	58	60	88	1990
3DOX15S120	15	30	57.0	53.5	1"	120	58	60	88	2150

Note: Maximum ambient temperature: 100°F. For higher ambient temperatures consult factory.

Power Requirements:

(Two) _____ HP Motors, 3 Phase 60 Hertz 208 v 230 v 460 v