



QUADRUPLEX STACK MOUNTED SCROLL MEDICAL AIR PLANTS WITH DESICCANT AIR DRYERS 5 HP

The Amico **Alert-2** continuous duty Medical Air Plant is a stack mounted completely packaged NFPA 99 and NEC compliant assembly featuring 100% oil-less rotary scroll air compressors, a U.L. listed electrical control cabinet, an ASME receiver, dual desiccant air dryers with purge control, dual 0.01 micron pre-filters, dual 0.5 micron after-filters, line pressure regulating valves, dew point monitor, CO monitor and other 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 connection at the control panel. All interconnecting copper/brass piping as well as wiring is completed 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 of the rotary oil-less scroll air-cooled design. They are dynamically balanced for very low noise levels and virtually no vibration. **No oil is used in operation of the compressors, so the discharge air is 100% oil-free.** Cooling is provided by built-in radial fan with shroud.

Compressors are V-belt driven by 3 phase, 60 cycle, 3550 RPM, NEMA design B motors. Slide bases for convenient 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 automatic electronic tank drain with manual override.

Also included as standard equipment are air cooled aftercoolers, compressor discharge check valves of bronze construction, safety relief valves, bronze intake and discharge flexible connectors, solenoid drain valves, isolation valves, high discharge temperature shut-down switches, pressure control switches as well as copper tubing with shut-off cock for gauge and switches.

The system includes a UL labeled control panel in a NEMA 12 enclosure. The panel includes the following standard accessories for **each** pump: externally operable fusible disconnect switch 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 of the pumps is taken out of service due to scheduled maintenance.

Local audible and visual alarms are provided per NFPA 99 for compressor thermal malfunction and "Backup in use".



The alarms include indicating lights as well as the horn. In addition, the thermal malfunction shut-down is provided with a manual reset. The audible alarm can be acknowledged with the "Silence" button. The visual alarm will remain energized until the problem has been corrected. Each alarm function includes a set of dry contacts for connection to the master alarm. All control and alarm functions will remain energized while any compressor in the system remains electrically on-line. Disconnect switches for air dryers are included.

Field adjustable control switches are pre-set to operate the lead compressor between 80 PSIG and 100 PSIG, the lag 1 compressor between 75 PSIG and 100 PSIG and the lag 2 compressor between 70 PSIG and 100 PSIG. The stand-by compressor will automatically start at 65 PSIG if one of the other compressors fails to operate.

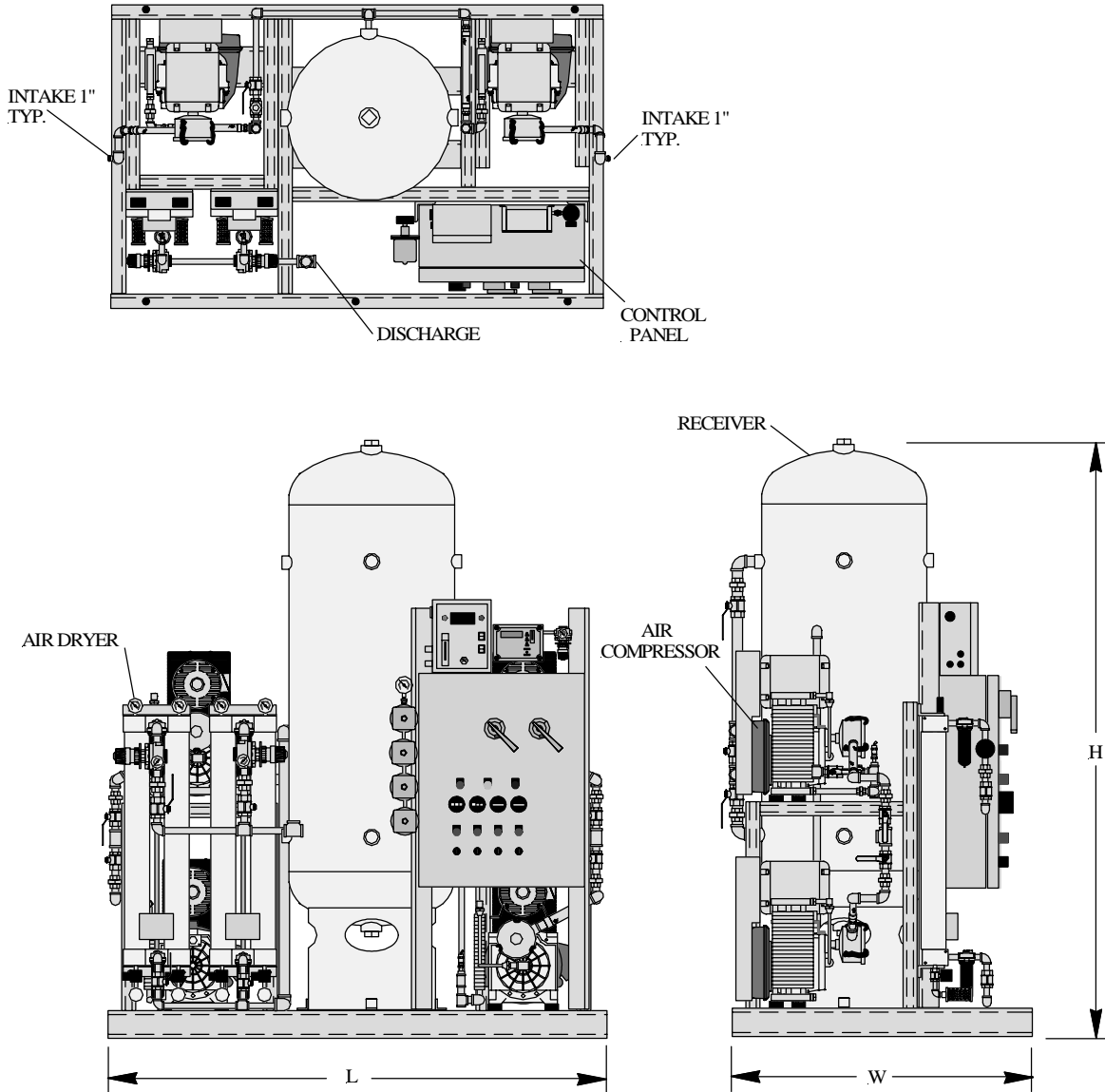
The Medical Air Plant is guaranteed by the manufacturer for a period of 12 months from the date of start-up or 18 months from the date of shipment (whichever comes first) against defects in design, materials, or construction. In addition, the compressors are guaranteed for 36 months from the date of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

Optional System Accessories

(only checked options will be supplied)

- Interface to AIMS (AMICO Information Management System)

QUADRUPLEX STACK MOUNTED SCROLL MEDICAL AIR PLANTS WITH DESICCANT AIR DRYERS 5 HP LAYOUT AND PERFORMANCE TABLE



System Model Number	Horsepower		Capacity ICFM (Each Pump)		Disch. Tank Conn. (Gal.)	Dimensions, In.			Weight Lbs.	
	Each	Total	75 PSIG	100 PSIG		L	W	H		
3QOXS5PS120D	5	20	16.9	16.1	3/4"	120	72	44	88	1845

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

Power Requirements:

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

