

Submittal Data Sheet

Features

Tri-Tech Medical Inc. Instrument Air Compressor Systems are completely packaged systems that are designed to meet high pressure instrument air surgical and specialty facility requirements.

- MADE IN THE U.S.A.
- Meet all NFPA 99 and NEC requirements
- Extreme duty pressure lubricated reciprocating compressors
- UL listed electrical control panel
- Includes audible and visual alarms, and dry contacts for remote alarm connection
- Completely tested prior to shipment
- Dual desiccant air dryers with purge control
- The only field connections are intake, exhaust, and power. Interconnecting piping, wiring, conduit, fittings, and junction boxes are included with the system.
- Compressor system guaranteed 18 months from date of shipment against defects in design, materials, and construction

Specifications

Each compressor is pressure lubricated, reciprocating, and air-cooled. Connecting rod and crankshaft bearings are pressure lubricated for extended life. Lubricant to all critical parts of the compressor is provided by an oil pump. Compressors are V-belt driven by 3 phase, 60 cycle, 1750 RPM, NEMA design B motors. Included are slide bases for belt tension adjustment and totally enclosed OSHA approved belt guards.

The system includes ASME construction rated receiver tank for 250 psi MWP service. The tank is suspended between heavy duty base supports. Tank includes pressure gauge, safety relief valve, 3 way by-pass, gauge glass, and electronic tank drain with manual override. Also included are intake filters, check valves, safety relief valves, flexible connectors, isolation valves, pressure switches, and shut-off cock for gauge and switches.

Air drying system includes dual desiccant air dryers with purge control, dual 0.5 micron pre-filters, dual charcoal absorbers, dual 0.01 micron after-filters, line pressure regulating valves, dew point monitor, and all accessories required per NFPA 99 and NEC.

BASIC NEMA 12 enclosed UL listed NFPA Control Panel features externally operable circuit breakers with door interlock, control circuit transformers with fused primary and secondary coils, H-O-A switches, run light, hour meter, magnetic starter with 3 leg overload

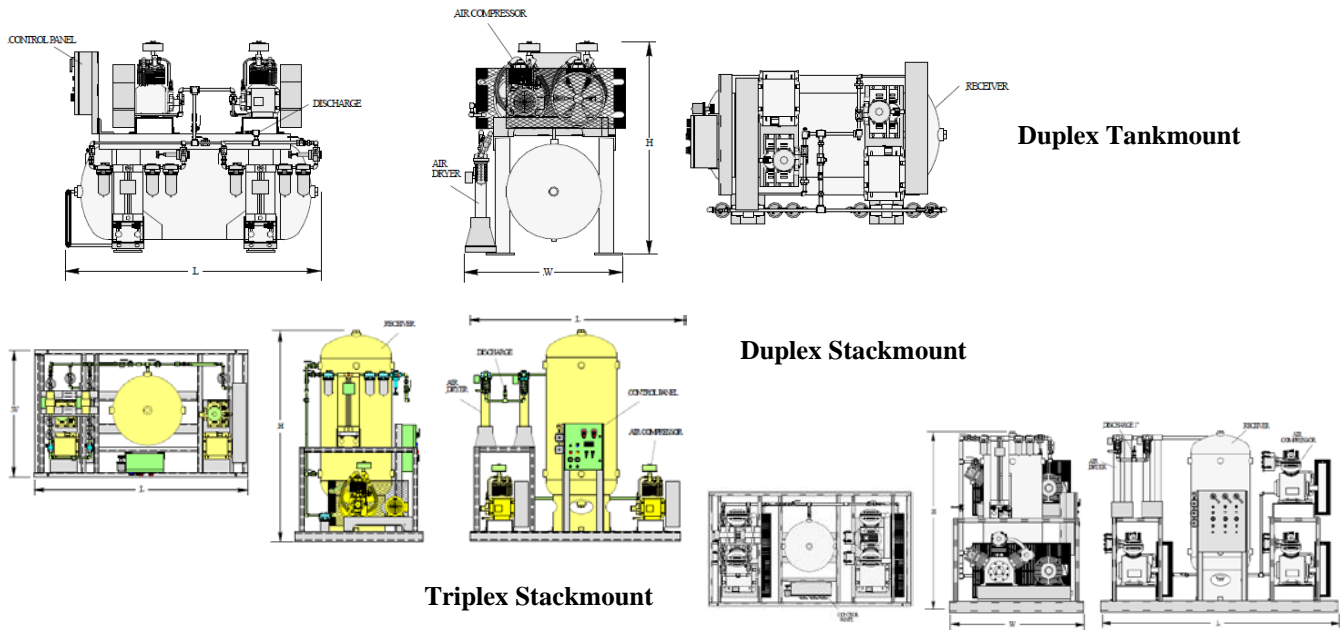
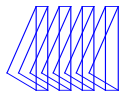


Tank-Mounted Model DINSA10R200HTD1
Your system can look different

protection and reset switch. It is also equipped with disconnect switches for the air dryers and multiple position selector switches for automatic or manual lead/lag operation. Audible and visual local alarms are included to meet NFPA 99 requirements and include a "silence" button. Dry alarm contacts for connection to a separately provided master alarm are also included. Field adjustable pressure switches are pre-set for correct lead-lag sequencing.

OPTIONS INCLUDE:

- Level 1 4.3" HMI touch screen includes service alerts, current status of system, all alarm indications, event log, and trend graphs.
- Level 2 5.7" HMI touch screen includes all of the above plus Ethernet connection with embedded web page for remote monitoring of alarms and system status, and electronic notifications of alarms and warning.
- BacNet gateway also available
- Various configurations, and can be expandable.



LUBRICATED RECIPROCATING INSTRUMENT AIR COMPRESSOR SYSTEMS												
Model	HP	SCFM @ 180 psig each	SCFM @ 200 psig each	Tank Gallon	Dimensions			Discharge	Weight (LBS)	System FLA		
					L	W	H			208V	230V	460V
DUPLEX TANKMOUNT												
DINSA3R120HTD1	3 (2)	9.7	9.1	120	80"	44"	64"	1/2"	1330			
DINSA5R120HTD1	5 (2)	16.5	15.5	120	80"	44"	64"	1/2"	1430	27	25.3	13.5
DINSA7.5R120HTD1	7.5 (2)	23.5	22.1	120	80"	44"	64"	1/2"	1490	43	41	20.5
DINSA7.5R200HTD1	7.5 (2)	23.5	22.1	200	80"	50"	70"	1/2"	1930	43	41	20.5
DINSA10R200HTD1	10 (2)	34.8	32.3	200	80"	50"	70"	3/4"	2150			
DINSA15R200HTD1	15 (2)	49	44.8	200	94"	60"	70"	3/4"	2470			
DUPLEX STACKMOUNT												
DINSA5R120SD1	5 (2)	16.5	15.5	120	80"	44"	80"	1/2"	1490	27	25.3	13.5
DINSA5R240SD1	5 (2)	16.5	15.5	240	86"	50"	94"	1/2"	1835	27	25.3	13.5
DINSA7.5R120SD1	7.5 (2)	23.5	22.1	120	80"	44"	80"	3/4"	1960	43	41	20.5
DINSA7.5R240SD1	7.5 (2)	23.5	22.1	240	86"	50"	94"	3/4"	2305	43	41	20.5
TRIPLEX STACKMOUNT												
TINSA10R200SD1	10 (3)	34.8	32.3	200	120"	68"	88"	1"	1490	80	77	38.5

Capacities shown based on sea level

Maximum ambient temperature is 100 degrees F for standard systems

Standard electrical is 3 phase, 60 Hz, 208/230/or 460 volt and 3 phase, 50 Hz, 380 volt

Please confirm electrical requirement and elevation when ordering

Allow 24" clearance on all sides, and 36" for the front of the control panel per NFPA 99

**DIMENSIONS, EXACT CONFIGURATION, AND SYSTEM WEIGHT ARE SUBJECT TO CHANGE
DIFFERENT CONFIGURATIONS (TANKMOUNT, TRIPLEX, QUADPLEX, PENTAPLEX, EXPANDABLE)
ARE AVAILABLE - PLEASE CONSULT TRI-TECH MEDICAL INC. FOR MORE INFORMATION**

Tri-Tech Medical Inc.

Improving medical gas systems through innovation!