

Submittal Data Sheet

Features

Oilless Reciprocating Medical Air Compressor Systems are completely packaged systems that are designed to meet medical breathing air health care facility requirements.

- MADE IN THE U.S.A.
- Meet all NFPA 99 and NEC requirements
- 100% oil free
- No oil is used in operation of the compressors
- Corrosion resistant lined receiver and components extend ring, valve, and system life
- UL listed electrical control panel
- Includes audible and visual alarms, and dry contacts for remote alarm connection
- Completely tested prior to shipment
- NFPA 99 compliant dual desiccant air dryer with purge control system
- 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 and compressor pumps 36 months from date of shipment against defects in design, materials, and construction

Specifications

Each compressor shall be air-cooled oil-less reciprocating. No oil is used, so the discharge air is 100% oil-free. Cooling provided by a radial fan with shroud. 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. Standard equipment includes spring vibration isolators, air cooled aftercoolers, check valves, safety relief valves, intake and discharge flexible connectors, solenoid unloaders, high discharge temperature switches, and isolation valves.

The system includes corrosion resistant lined ASME construction rated receiver tank for 200 psi MAWP. Tank includes pressure gauge, safety relief valve, 3 way by-pass, gauge glass, and electronic tank drain with manual override.

Two identical banks of air treatment equipment are included, piped in parallel with by-pass valves. Each desiccant dryer sized for 100% of system capacity, provides maximum dewpoint of +32F, and includes built-in purge saver control. Each dryer includes 0.01 micron pre-filter, 0.5 micron after-filter, and pressure regulator. Digital dew point and CO monitors with alarm set points of 35F and 10 PPM are included. Demand checks are installed with each instrument.

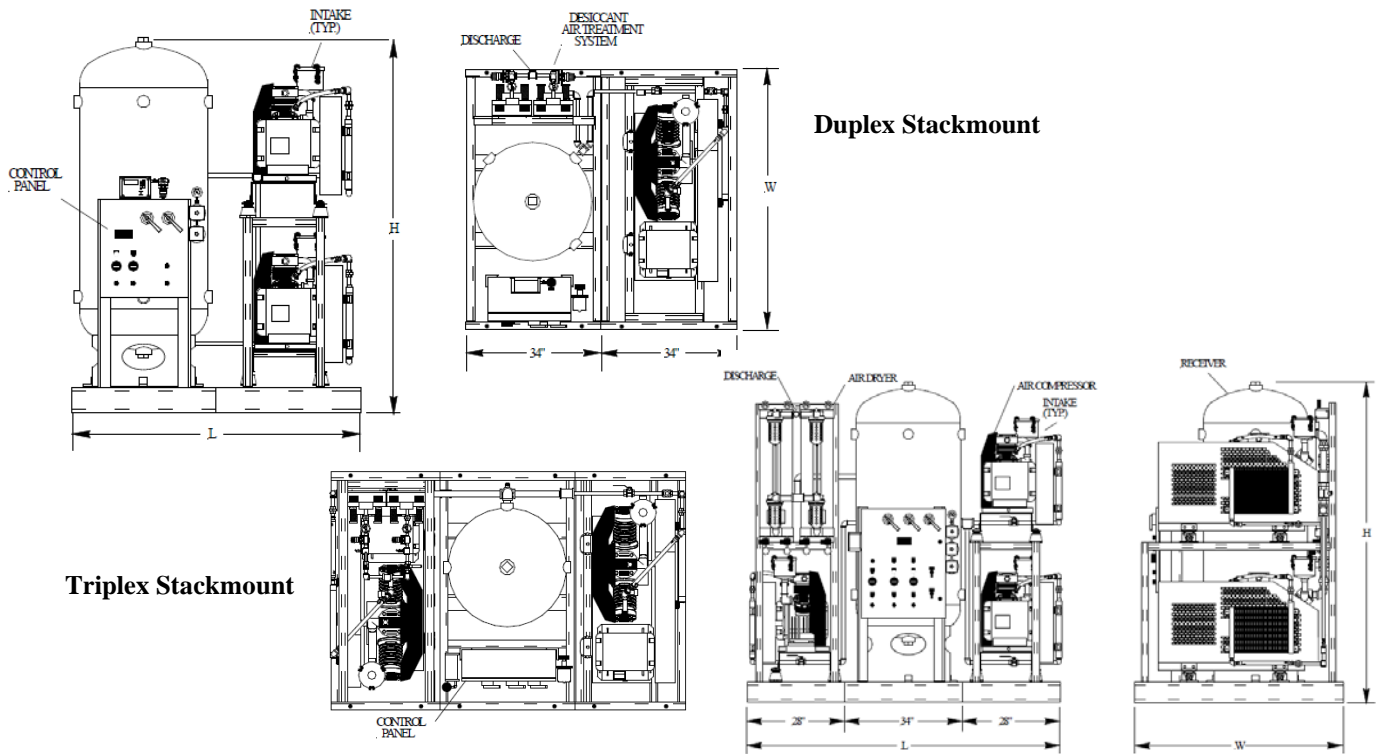
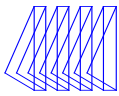


Stack-Mounted Model TMA7.5R200SD1
Your system can look different

BASIC NEMA 12 UL listed NFPA Control Panel features short circuit, single phase and thermal overload protection. Externally operable circuit breakers with door interlock, control circuit transformers with fused primary and secondary coils, H-O-A switches, magnetic starters with 3 leg overload protection and reset switches are standard, as are individual dual-mode 3-position selector switches for air dryers. PLC controller for lead-lag and isolation control. HMI displays run indication, run time, and alarm conditions. 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. Control switches are pre-set for correct lead-lag sequencing.

OPTIONS INCLUDE:

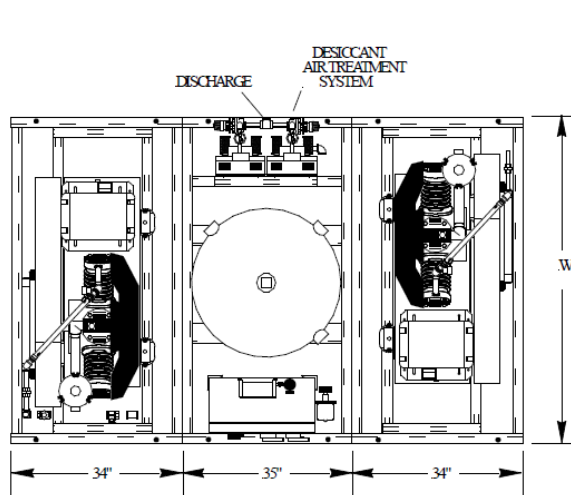
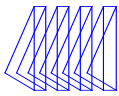
- Level 1 4.3" HMI touch screen includes service alerts, current status of system, all alarm indications, event log, and trend graphs.
- Level 2 5.7" HMI touch screen includes all of the above plus Ethernet connection with embedded web page for remote monitoring of alarms and system status, and electronic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



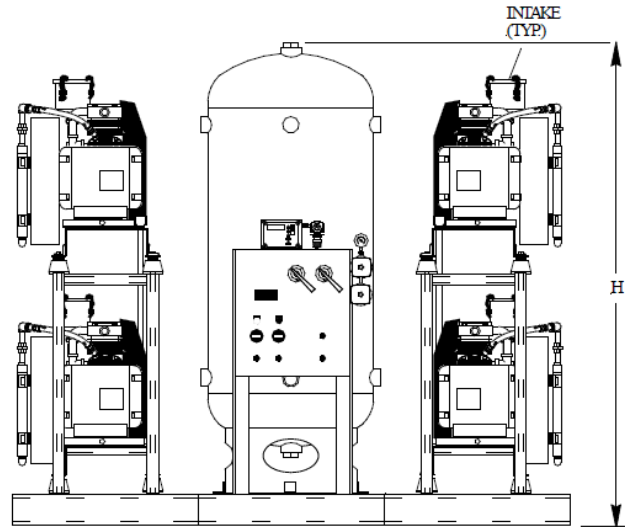
OILLESS RECIPROCATING STACKMOUNT NFPA MEDICAL AIR COMPRESSOR SYSTEMS

| Model | HP | SCFM @ 50 psig each | NFPA Capacity | Tank Gallon | Dimensions | | | Inlet | Outlet | Weight (LBS) | System FLA | | |
|---------------------------|---------|------------------------|------------------|----------------|------------|------|------|--------|--------|-----------------|------------|------|------|
| | | | | | L | W | H | | | | 208V | 230V | 460V |
| DUPLEX STACKMOUNT | | | | | | | | | | | | | |
| DMA3R120SD1 | 3 (2) | 10.1 | 10.1 | 120 | 68" | 70" | 81" | 1" | 1/2" | 1350 | 19.1 | 17.4 | 9.7 |
| DMA5R120SD1 | 5 (2) | 18.4 | 18.4 | 120 | 68" | 70" | 83" | 1" | 1/2" | 1855 | 37 | 32 | 16 |
| DMA5R200SD1 | 5 (2) | 18.4 | 18.4 | 200 | 68" | 70" | 92" | 1" | 1/2" | 2055 | 37 | 32 | 16 |
| DMA7.5R120SD1 | 7.5 (2) | 28.1 | 28.1 | 120 | 68" | 70" | 83" | 1" | 1/2" | 2015 | 51 | 44 | 22 |
| DMA7.5R200SD1 | 7.5 (2) | 28.1 | 28.1 | 200 | 68" | 70" | 92" | 1" | 1/2" | 2215 | 51 | 44 | 22 |
| DMA10R120SD1 | 10 (2) | 37.1 | 37.1 | 120 | 68" | 70" | 83" | 1" | 1/2" | 2260 | 67 | 60 | 30 |
| DMA10R200SD1 | 10 (2) | 37.1 | 37.1 | 200 | 68" | 70" | 92" | 1" | 1/2" | 2460 | 67 | 60 | 30 |
| TRIPLEX STACKMOUNT | | | | | | | | | | | | | |
| TMA5R200SD1 | 5 (3) | 18.4 | 36.8 | 200 | 90" | 60" | 88" | 1-1/2" | 1/2" | 2590 | 53 | 46 | 23 |
| TMA7.5R200SD1 | 7.5 (3) | 28.1 | 56.2 | 200 | 90" | 60" | 88" | 1-1/2" | 1" | 2990 | 75 | 64 | 32 |
| TMA7.5R240SD1 | 7.5 (3) | 28.1 | 56.2 | 240 | 90" | 60" | 100" | 1-1/2" | 1" | 3210 | 75 | 64 | 32 |
| TMA10R240SD1 | 10 (3) | 37.1 | 74.2 | 240 | 90" | 102" | 100" | 1-1/2" | 1" | 3460 | 98 | 87 | 43 |
| TMA15R240SD1 | 15 (3) | 54.7 | 109.4 | 240 | 90" | 102" | 100" | 1-1/2" | 1-1/4" | 3850 | 142 | 123 | 61 |

NFPA capacities shown with one compressor on reserve, 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



Quadplex Stackmount



| OILLESS RECIPROCATING STACKMOUNT NFPA MEDICAL AIR COMPRESSOR SYSTEMS | | | | | | | | | | | | | |
|--|---------|---------------------|---------------|-------------|------------|-----|-----|--------|--------|--------------|------------|------|------|
| Model | HP | SCFM @ 50 psig each | NFPA Capacity | Tank Gallon | Dimensions | | | Inlet | Outlet | Weight (LBS) | System FLA | | |
| | | | | | L | W | H | | | | 208V | 230V | 460V |
| QUADPLEX STACKMOUNT | | | | | | | | | | | | | |
| QMA5R200SD1 | 5 (4) | 18.4 | 55.2 | 200 | 103" | 70" | 84" | 1-1/2" | 1/2" | 3155 | 71 | 62 | 31 |
| QMA5R240SD1 | 5 (4) | 18.4 | 55.2 | 240 | 103" | 70" | 96" | 1-1/2" | 1/2" | 3375 | 71 | 62 | 31 |
| QMA7.5R200SD1 | 7.5 (4) | 28.1 | 84.3 | 200 | 103" | 70" | 84" | 1-1/2" | 1/2" | 3740 | 101 | 86 | 43 |
| QMA7.5R240SD1 | 7.5 (4) | 28.1 | 84.3 | 240 | 103" | 70" | 96" | 1-1/2" | 1/2" | 3960 | 101 | 86 | 43 |
| QMA10R200SD1 | 10 (4) | 37.1 | 111.3 | 200 | 103" | 70" | 84" | 1-1/2" | 1" | 4155 | 132 | 116 | 59 |
| QMA10R240SD1 | 10 (4) | 37.1 | 111.3 | 240 | 103" | 70" | 96" | 1-1/2" | 1" | 4375 | 132 | 116 | 59 |

NFPA capacities shown with one compressor on reserve, based on sea level
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DIMENSIONS, EXACT CONFIGURATION, AND SYSTEM WEIGHT ARE SUBJECT TO CHANGE

**DIFFERENT CONFIGURATIONS
 (TANKMOUNT, TRIPLEX, QUADPLEX, PENTAPLEX, EXPANDABLE, INDUSTRIAL, LABORATORY)
 ARE AVAILABLE**

PLEASE CONSULT TRI-TECH MEDICAL INC. FOR MORE INFORMATION

Tri-Tech Medical Inc.

Improving medical gas systems through innovation!