

Submittal Data Sheet

Features

Oilless Scroll 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, energy efficient
- Dynamically balanced for low noise and little vibration
- 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 belt driven air-cooled oil-less rotary scroll. No oil is used, so the discharge air is 100% oil-free. Cooling provided with an integral radial fan. Compressors are V-belt driven by 3 phase, 60 cycle, 3550 RPM, NEMA design B motors. Included are slide bases for belt tension adjustment and totally enclosed OSHA approved belt guards. Standard equipment includes air cooled aftercoolers, intake and discharge flexible connectors, discharge check valves, high discharge temperature shut down switches, isolation valves, safety relief valves, solenoid drain valves, pressure control switches, and a shut-off cock for gauge and switches.

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 0.5 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.

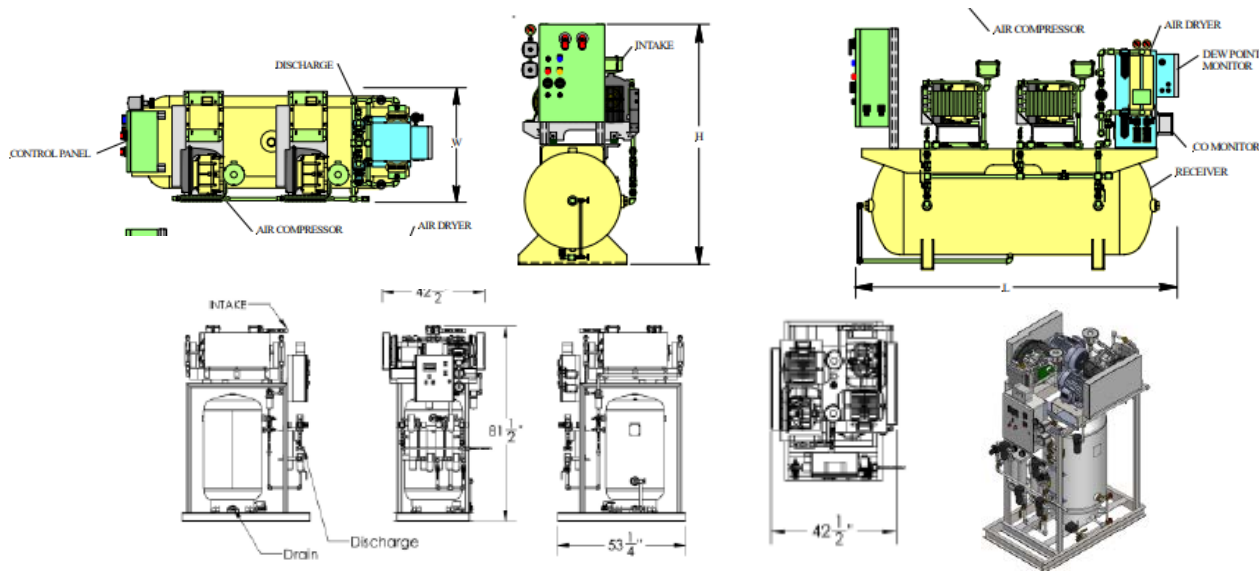
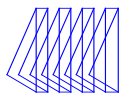


Stack-Mounted Model DMA15S120SD1
Your system can look different

BASIC 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.

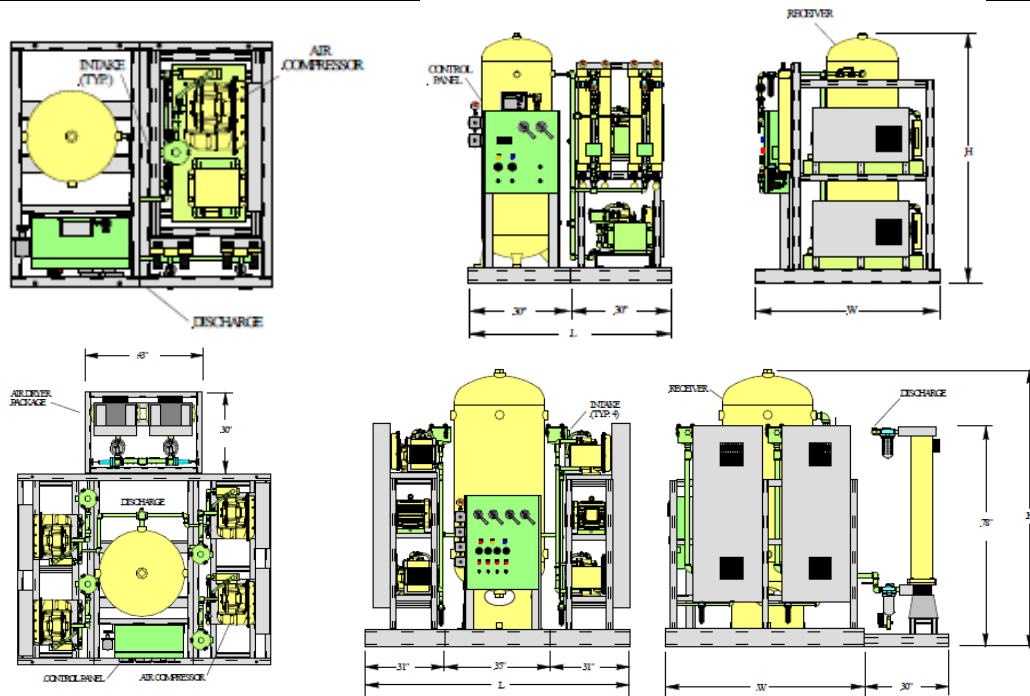
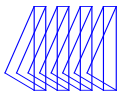
OPTIONS INCLUDE:

- 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 multi-plex configurations, and can be provided to be expandable. Can also provide enclosure type, tank-mounted, and industrial type systems.



OILLESS SCROLL TANKMOUNT 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 HORIZONTAL TANKMOUNT													
DMA2S80HTD1	2 (2)	6.2	6.2	80	82"	33"	60"	1"	3/4"	1200	15.6	13.6	6.5
DMA2S120HTD1	2 (2)	6.2	6.2	120	82"	33"	60"	1"	3/4"	1330	15.6	13.6	6.5
DMA3S80HTD1	3 (2)	9.5	9.5	80	82"	33"	60"	1"	3/4"	1350	22	19.2	9.6
DMA3S120HTD1	3 (2)	9.5	9.5	120	82"	33"	60"	1"	3/4"	1480	22	19.2	9.6
DMA5S80HTD1	5 (2)	15.2	15.2	80	89"	34"	66"	1-1/2"	3/4"	1720	35	30.4	15.2
DMA5S120HTD1	5 (2)	15.2	15.2	120	89"	34"	66"	1-1/2"	3/4"	1800	35	30.4	15.2
DMA7.5S80HTD1	7.5 (2)	25.2	25.2	80	89"	34"	66"	1-1/2"	3/4"	1850	50.6	44	22
DMA7.5S120HTD1	7.5 (2)	25.2	25.2	120	89"	34"	66"	1-1/2"	3/4"	1900	50.6	44	22
DMA7.5S200HTD1	7.5 (2)	25.2	25.2	200	94"	34"	76"	1-1/2"	3/4"	2050	50.6	44	22
DUPLEX VERTICAL TANKMOUNT													
DMA2S80VTD1	2 (2)	6.2	6.2	80	54"	43"	62"	1"	3/4"	1170	15.6	13.6	6.5
DMA3S80VTD1	3 (2)	9.5	9.5	80	54"	43"	62"	1"	3/4"	1290	22	19.2	9.6
DMA5S80VTD1	5 (2)	15.2	15.2	80	54"	43"	62"	1-1/2"	3/4"	1715	35	30.4	15.2
DMA7.5S80VTD1	7.5 (2)	25.2	25.2	80	54"	43"	62"	1-1/2"	3/4"	1820	50.6	44	22

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



OILLESS SCROLL 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
DUPLIX STACKMOUNT													
DMA2S80SD1	2 (2)	6.2	6.2	80	60"	52"	72"	1"	1/2"	1200	13	12.9	6.7
DMA2S120SD1	2 (2)	6.2	6.2	120	60"	52"	80"	1"	1/2"	1330	13	12.9	6.7
DMA3S80SD1	3 (2)	9.5	9.5	80	60"	52"	72"	1"	1/2"	1350	17.4	16.5	8.8
DMA3S120SD1	3 (2)	9.5	9.5	120	60"	52"	80"	1"	1/2"	1480	17.4	16.5	8.8
DMA5S80SD1	5 (2)	15.2	15.2	80	60"	52"	72"	1-1/2"	1/2"	1480	27	25.3	12.9
DMA5S120SD1	5 (2)	15.2	15.2	120	60"	52"	80"	1-1/2"	1/2"	1480	27	25.3	12.9
DMA7.5S80SD1	7.5 (2)	25.2	25.2	80	60"	52"	72"	1-1/2"	1/2"	1530	37.4	35.7	18.1
DMA7.5S120SD1	7.5 (2)	25.2	25.2	120	60"	52"	80"	1-1/2"	3/4"	1660	37.4	35.7	18.1
DMA10S120SD1	10 (2)	34.8	34.8	120	64"	55"	82"	1-1/2"	3/4"	2785	67	59	30
DMA10S200SD1	10 (2)	34.8	34.8	200	64"	55"	88"	1-1/2"	3/4"	2915	67	59	30
DMA15S120SD1	15 (2)	50.4	50.4	120	60"	66"	84"	1-1/2"	3/4"	2565	96	83	42
DMA15S200SD1	15 (2)	50.4	50.4	200	60"	66"	90"	1-1/2"	3/4"	2915	96	83	42
TRIPLEX STACKMOUNT													
TMA15S120SD1	15 (3)	50.4	100.8	120	97"	67"	80"	1-1/2"	3/4"	3775	142	123	61.5
TMA15S200SD1	15 (3)	50.4	100.8	200	97"	67"	97"	1-1/2"	3/4"	3925	142	123	61.5

NFPA capacities shown with one compressor on reserve, based on sea level

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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 (TRIPLEX, QUADPLEX, PENTAPLEX, EXPANDABLE) ARE AVAILABLE – PLEASE CONSULT TRI-TECH MEDICAL INC. FOR MORE INFORMATION