

Medical Air Compressor Systems





OIL-LESS SCROLL TECHNOLOGY

GENTEC's technology and expertise in clean, dry air systems is unmatched. GENTEC manufactures compressors, pumps, air receivers, control panels, air dryers, dew point monitors, and more, to provide a total system approach to your air compressor needs. All facilities are ISO9001 registered so you can be assured of the highest quality. The enclosed scroll compressors feature compact footprints, energy efficient operation, low maintenance, and environmentally friendly design, all in one complete package.



TECHNOLOGY & INNOVATION

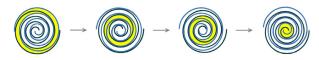
The scroll pump has few moving parts making it reliable and easier to maintain. The self lubricating tip seals and absence of a gearbox means the pump is truly 100% oil free.

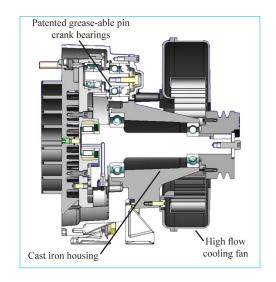
As the leaders in scroll pump technology, our latest design incorporates several innovative features:

- · Main bearings are housed in durable cast iron instead of aluminum which prevents fretting and premature failure of the bearing race. This pump can be operated at 100% duty with confidence.
- The patented bearing re-grease feature has been improved to allow maintenance from the front side of the pump, cutting service time in half.
- · The patented tip seal design yields the highest flow rates and longevity of any other dry scroll compressor.
- The improved efficiency and cooling results in lower operating temperatures.
- · Extremely low vibration.
- · Industry first 10hp scroll pump improves system efficiency by producing more output using fewer pumps.

COMPRESSION PRINCIPLE

As the orbiting scroll orbits from No.1 to No.4 position, a crescent-shaped cavity is gradually reduced, compressing the air and exhausting it through the final discharge point at the center.





OIL-LESS RECIPROCATING PISTON TECHNOLOGY

Our oil-less reciprocating compressors are single stage (1 through 3 HP) and two stage (5 through 15 HP). These oil-less reciprocating piston compressors are used on our medical reciprocating package systems and our medical reciprocating tankmount duplex systems. Features and benefits include:

- · No oil anywhere.
- · Composite piston reduces bearing heat.
- · Dual cooling flywheel and fan
- · Corrosion resistant coating extends valve and ring life.
- · NFPA 99 compliant.



MEDICAL SCROLL SYSTEMS SPECIFICATIONS

Medical Enclosed Scroll Systems

Model Number	SCFM @ 50 PSIG*	HP	Tank (Gal.)		
Duplex Systems					
MSED1003	33.2	10 (2)	80		
MSED1503	49.8	15 (2)	80		
MSED2005	66.4	20 (2)	200		
MSED3006	99.6	30 (2)	240		
MSED4006	132.8	40 (2)	240		
Triplex Systems					
MSET1003	66.4	10 (3)	80		
MSET1505	99.6	15 (3)	200		
MSET2006	132.8	20 (3)	240		
MSET3006	199.2	30 (3)	240		
MSET4006	265.6	40 (3)	240		
Quadplex Systems					
MSEQ1506	149.4	15 (4)	240		
MSEQ2006	199.2	20 (4)	240		
MSEQ3007	298.8	30 (4)	400		
MSEQ4007	398.4	40 (4)	400		

Medical Scroll Multiplex Systems

Model Number	SCFM @ 50 PSIG*	HP	Tank (Gal.)	Model Number	SCFM @ 50 PSIG*	HP	Tank (Gal.)
	Duplex Systems		Quadplex Systems				
MTSD0303	9.5	3 (2)	80	MSQ0504	49.8	5 (4)	120
MTSD0503	16.6	5 (2)	80	MSQ0755 ²	71.4	7.5 (4)	200
MSD02031	6.0	2 (2)	80	MSQ10B5 ²	94.8	10 (4)	200
MSD03031	9.5	3 (2)	80	MSQ10051	99.6	10 (4)	200
MSD05031	16.6	5 (2)	80	MSQ15B5/6 ²	142.8	15 (4)	200/240
MSD0754 ²	23.8	7.5 (2)	120	MSQ15051	149.4	15 (4)	200
MSD10B4 ²	31.6	10 (2)	120	MSQ20B5/6 ²	189.6	20 (4)	200/240
MSD1004 ¹	33.2	10 (2)	120	Pentaplex Systems			
MSD15B4 ²	47.6	15 (2)	120	MSP15051	199.2	15 (5)	200
MSD1504	49.8	15 (2)	120	Hexaplex Systems			
MSD2004 ²	63.2	20 (2)	120	MSH05041	83.0	5 (6)	120
	Triplex Systems		MSH1506 ¹	249.0	15 (6)	240	
MST05031	33.2	5 (3)	80	Nine Pump Systems			
MST0755 ²	47.6	7.5 (3)	200	MSN05051	132.8	5 (9)	200
MST10B5 ²	63.2	10 (3)	200				
MST1005 ¹	66.4	10 (3)	200				
MST15B5/6 ²	95.2	15 (3)	200/240				
MST1505 ¹	99.6	15 (3)	200				
MST20B5/6 ²	126.4	20 (3)	200/240				

COMPLETE YOUR MEDICAL AIR

MEDICAL DESICCANT AIR DRYERS

- Pressure swing adsorption technology with a repressurization cycle.
 - In fixed-cycle mode, total cycle time is four minutes, or two minutes per tower.
 - In variable-cycle mode, the total cycle time can be increased up to 120 minutes.
- · Manufactured in-house.
- · Dryer includes:
- Self-cleaning ceramic switching valve.
- Automatic purge saver dew point dependent.
- Differential pressure indicators for both inlet and outlet filters.
- Purge muffler.
- Tower pressure gauges.
- Regulators with gauges.
- Isolation ball valves.

CARBON MONOXIDE MONITOR

- · Compact design.
- · Digital display.
- · User programmable alarms and relays.
- · Visual and audible alarms.
- · High capacity relays.
- · Flow meter for confirmation of airflow.
- · Integrated on systems with PBMI controls.



Medical Desiccant Dryer Package includes air dryer, CO monitor, and dew point monitor





MEDICAL RECIPROCATING PISTON SYSTEMS SPECIFICATIONS

Medical Reciprocating Tankmount Systems

Model Number	SCFM @ 50 PSIG*	HP	Tank (Gal.)		
Duplex Tankmount Systems					
MTD0103	3.4	1 (2)	80		
MTD0203	8.3	2 (2)	80		
MTD0303	11.3	3 (2)	80		
MTD0304	11.3	3 (2)	120		
MTD0504	18.6	5 (2)	120		
MTD0505	18.6	5 (2)	200		
MTD0756 ²	29.0	7.5 (2)	240		
MTD1006	36.2	10 (2)	240		
MTD1506	50.9	15 (2)	240		

Medical Reciprocating Package Systems

Model Number	SCFM @ 50 PSIG*	HP	Tank (Gal.)		
Duplex Package Systems					
MPD0308	11.3	3 (2)	80		
MPD0508	18.6	5 (2)	120		
MPD0608 ²	21.4	7.5 (2)	120		
MPD0758 ²	29.0	7.5 (2)	120		
MPD1008	36.2	10 (2)	200		
MPD1508	50.9	15 (2)	200		
Triplex Package Systems					
MPT0508	37.2	5 (3)	200		
MPT0608 ²	42.8	7.5 (3)	200		
MPT0758 ²	58.0	7.5 (3)	200		
MPT1008	72.4	10 (3)	240		
MPT1508	101.8	15 (3)	240		
Quadplex Systems					
MPQ0508	55.8	5 (4)	240		
MPQ0608 ²	64.2	7.5 (4)	240		
MPQ0758 ²	87.0	7.5 (4)	240		
MPQ1008	108.6	10 (4)	240		
MPQ1508	152.7	15 (4)	240		

^{*}SCFM @ 50 PSIG is shown with one compressor in reserve per NFPA 99 guidelines. 'System is OSHPD (seismic) certified; Certification No. OSP-3080-10. 'System includes our new 7.5 or 10 HP pumps.



All systems are fully compliant with the latest edition of NFPA 99 and are manufactured in ISO 9001 certified facilities.

CONFIGURATION OPTIONS



Skid Mount



Horizontal Tank Mount



Medical Enclosed Scroll

SYSTEM DESIGN FEATURES

- · Multiple compressors.
- · ASME receiver.
- UL listed control panel (PBMI or Basic).*
- · Air purification system.
- · Carbon monoxide monitor.
- · Dew point monitor.
- · All interconnecting piping and wiring.
- · Vibration isolation pads and flex connectors.
- · Most of our multiplex scroll packages now OSHPD certified!

CONTROL PANEL OPTIONS

STANDARD PREMIUM CONTROL PANEL

- PLC controller and 6" color HMI (Human Machine Interface) touch screen displays the operating status of the unit.
- UL508A listed and labeled, NEMA 4/12 enclosure.
- · Visual and audible alarms for:
 - System overload trip.
- High temperature conditions.
- Service intervals.
- High dew point and CO levels.
- · Panel door includes:
 - Visual and audible alarms.
- HOA switch for each pump.
- 3-position dryer switch.
- · Integrated dew point and carbon monoxide monitors.
- · Building automation gateway with BacNet® protocol.
- · Email notifications for alarms and service alerts.

OPTIONAL BASIC CONTROL PANEL

- UL508A listed and labeled, NEMA 4/12 enclosure.
- Timed lead/lag compressor alternation.

Visual and audible reserve compressor in use alarm.

- · Redundant control circuit transformers.
- · Dry contacts for remote alarm monitoring.
- · Each compressor provided with:
- Hand/Off/Auto selector switch.
- Magnetic starter with 3 leg overload protection.
- Visual and audible high temperature shut down.
- Hour meter.
- Compressor run light.
- · Dew point monitor with LCD dew point display.
- · Carbon monoxide monitor with LCD display of CO concentrations.