
SYSADVANCE

SHAPING THE FUTURE OF TECHNOLOGY




sysadvance®

MEDICAL



AirSYS M

AIR

MEDICAL AIR

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DESCRIPTION

MEDICAL AIR STANDARDS

SYSADVANCE medical air systems are medical devices certified according to MDD 93/42/EEC – Class IIa. They also comply with the most demanding standards and regulations such as the European Pharmacopoeia – Medical Air Monograph and HTM 02-01. **SYSADVANCE** QMS is certified according to ISO 13485.

MEDICAL AIR APPLICATIONS

Medical air in gas state is mainly used in respiratory therapy as a power source for patient ventilators, and for blending with oxygen.

It is also used as the driving gas for nebulized drugs and chemotherapy agents.

COMPRESSOR TECHNOLOGIES

SCROLL – Oil free

Two spiral elements: one moves in eccentric circles and the other one is stationary. Air gets trapped between the two spirals at the suction side and gets transported and compressed to the center of the spiral. **Quiet operation and oil-free air.**



ROTARY SCREW

Two counter-rotating screws housed in a chamber (air-end). The area containing the air gets increasingly smaller as the air moves along, and the pressure increases.

High-volume, steady stream of compressed air, easy maintenance.



RECIPROCATING – Oil free

Positive displacement compressors in which the compressing and displacing element is a piston having a reciprocating motion within a cylinder. **Small footprint and oil free air.**



TREATMENT AND CONTROL TECHNOLOGY

The air passes through the air compressor and the adsorption dryer, being stored, afterwards, in a high pressure vessel with a dew point below -40°C .

The cycling mode of the adsorption dryer is controlled by a built-in dew point meter allowing significant energy savings. The AirSYS M system is fully automated and controlled by PLC, not requiring any human intervention.

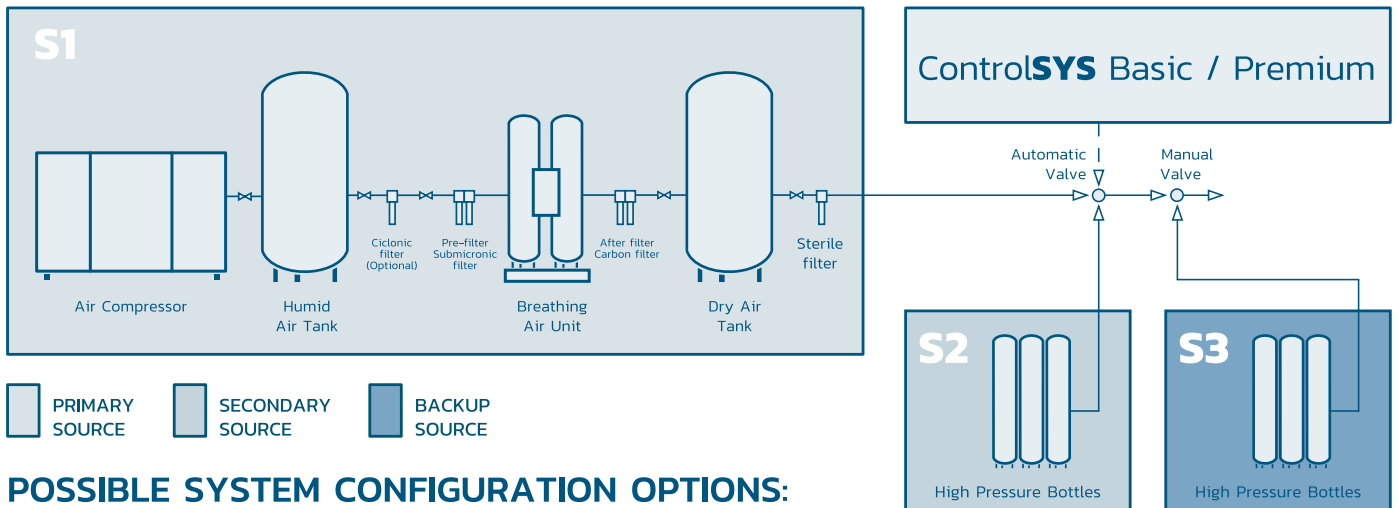
ADVANTAGES

- **ECONOMY**
 - Reduction of medical air costs;
- **CONTINUOUS AVAILABILITY**
 - Elimination of orders and deliveries;
- **CONVENIENCE**
 - elimination of the logistic and administrative operations;
- **CERTIFICATION**
 - Certified quality management system according to ISO 13485
 - Certified medical air systems according to Medical Devices Directive 93/42/EEC;
- **CONTAINER AND SKID**
 - Mounted solutions available;
- **Adsorption dryer with dew point controller.**

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INSTALLATION OPTIONS IN ACCORDANCE WITH THE STANDARD:



POSSIBLE SYSTEM CONFIGURATION OPTIONS:

- **S1** · 1 AirSYS M System + 2 High pressure sources
- **S2** · 2 AirSYS M Systems + 1 High pressure source
- **S3** · 3 AirSYS M Systems

THE MEDICAL AIR SUPPLY SYSTEM SHOULD HAVE 3 SOURCES OF SUPPLY: PRIMARY, SECONDARY AND RESERVE.

EN ISO 7396-1

- Medical gas pipeline systems

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ADVANTAGES OF FULL SYSTEM CERTIFICATION

* **SYSADVANCE designs and installs Medical Air Systems according to Medical Air Monograph.**

* **Full system certification includes:**

- Dimensioning and specification;
- Manufacturing;
- Full test and factory validation including mass spectrometer analysis;
- As-built layout and P&ID;
- Installation, start-up and training;
- On-site validation;
- Certified maintenance program;
- Periodic assessment of gas quality.

SYSADVANCE system certification provides health care facilities with Medical Air quality and security of supply under Medical Air Monograph requirements.



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PERFORMANCE / SPECIFICATIONS

MODEL	Air Flow	Vessel	Scroll	Screw	Piston
	Operating Pressure: 8 barg. m ³ /h	l			
AirSYS M 1	11	250	•		•
AirSYS M 2	16	250	•	•	•
AirSYS M 3	26	250	•	•	
AirSYS M 4	31	250	•	•	
AirSYS M 5	41	500	•	•	
AirSYS M 6	58	500	•	•	
AirSYS M 7	72	500	•	•	
AirSYS M 8	96	500	•	•	
AirSYS M 9	120	500	•	•	
AirSYS M 10	140	750	•	•	
AirSYS M 11	160	750	•	•	
AirSYS M 12	219	1000	•	•	
AirSYS M 13	271	1000	•	•	
AirSYS M 14	286	1500	•	•	
AirSYS M 15	380	1500	•	•	
AirSYS M 16	450	2000	•	•	
AirSYS M 17	560	3000	•	•	
AirSYS M 18	720	3000	•	•	



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