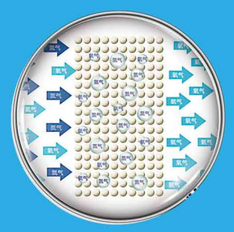
PSA Integrated Oxygen Generator (Modular Design)

Revolutionary design for the large-scale oxygen generator



PSA (Pressure Swing Adsorption) is the most economical, efficient as well as the safest way for oxygen generation. The PSA technology has been added in many nations' pharmacopoeia and has become one of the most popular approaches to supply oxygen to the hospitals. Applying the pressure swing adsorption principle, the PSA oxygen generation system separates oxygen from the other gases in the air. The purity of the output oxygen satisfies the international standards and regulations including ISO 10083, YY/T 0298-1998, WS1-XG-008-2012.

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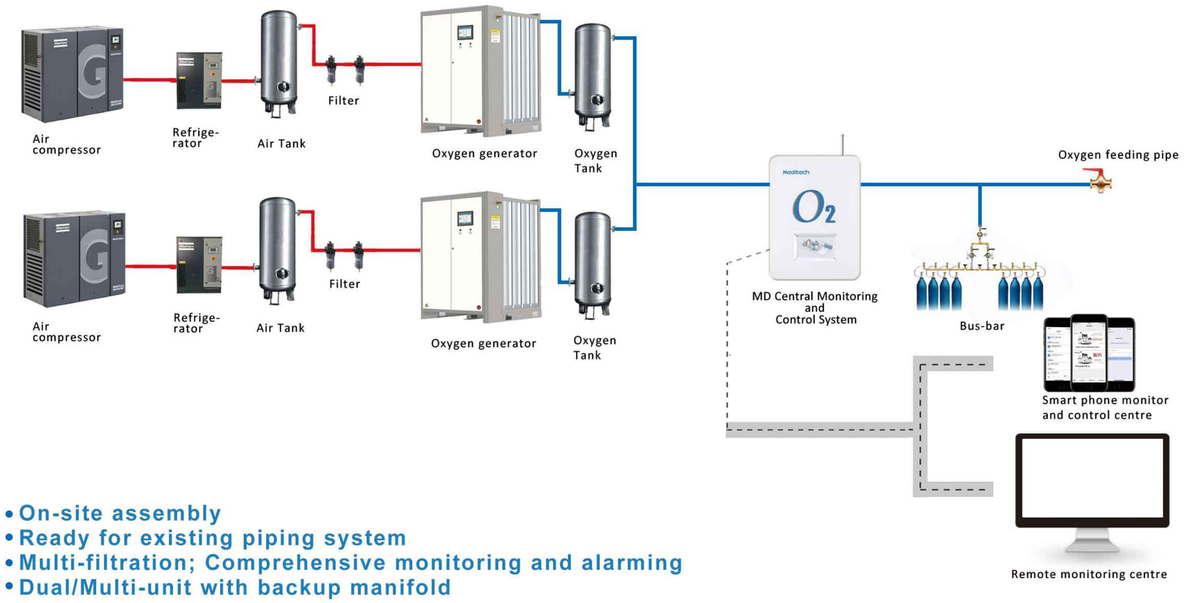
MD System Process Chart



- On-site assembly
- Ready for existing piping system
- Multi-filtration; Comprehensive monitoring and alarming
- Dual/Multi-unit with backup manifold

Smart Control System

Features:

- Data acquisition, intelligent analysis, optimised oxygen output
- Central control
- Controlling multiple units even with various models and different generation capacity
- Dynamic back-up, balanced usage

Intelligent central control

Concise and interactive interface of touch screen

Stable and reliable automated control

Specification BMO series

Type	Oxygen flowrate (m^3/h)	Oxygen purity (%)	Oxygen pressure (MPa)	Noise level dB（A）	L*W*H (mm)	Weight (Kg)	Power supply	Power (W)
WF-200	8	93±3%	≥0. 45	≤75	530*860*1780	310	AC220V 50Hz / AC110V 60Hz	≤48
WF-300	10					430		
WF-600	15				760*860*1780	480		
WF-700	20				980*860*1780	620		
WF-800	25				1200*860*1780	756		
WF-900	30				1420*860*1780	920		
WF-1000	35				1120*1380*1820	1160		
WF-1200	40				1400*1380*1820	1200		
WF-1500	45					1320		
WF-2000	50				1650*1380*1820	1480		
WF-2500	60					1610		

Oxygen therapy center
Hospital
Aged care
Scientific research

Steel making
Glass manufacturing
Laser cutting
Paper making
Sewage treatment
Cold storage

Animal icu/operating room
Animal rehabilitation health care treatment

Patents
Oxygen generation on demand
Light and compact
Detachable modules
High performance
Easy transportation
New pneumatic control technology
Smart HMI
Power efficient design

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Mobile Oxygen Generation System (Leasable, on trailer)

For mining, temporary field hospital and operating theater

Trailer design
System and pipeline fixed on trailer, plug and play

Variety of choices
High pressure / low pressure models available

Independent power supply
Optional power generator

Optimized configuration
Integrated design

Mobile Oxygen Generation System

For disaster rescue, field hospital

Consume as you go
System fixed in container

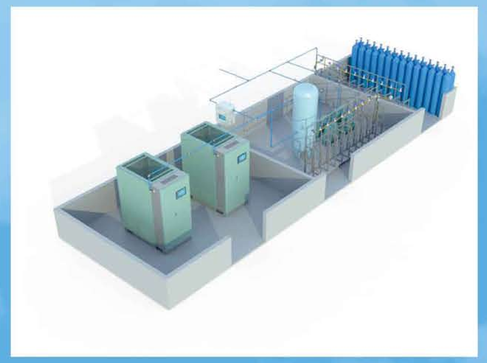
Plug and play
Pipeline connectivity ready, instant oxygen supply

Independent power supply
Optional power generator

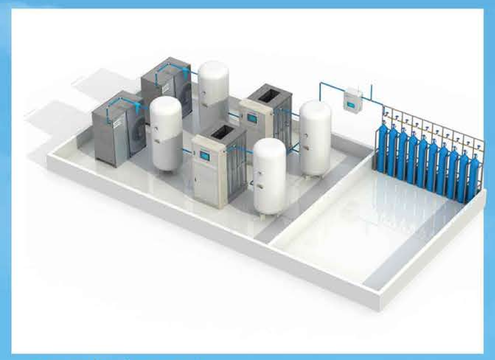
Pressure control
Freely switch between high/low pressure modes

Customised system design and service for VIP clients with particular demands and special orders.

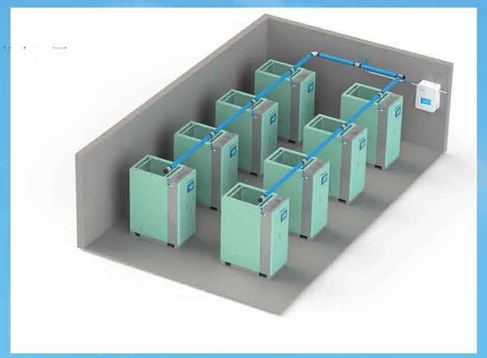
Typical Schemes 1



Typical Schemes 2

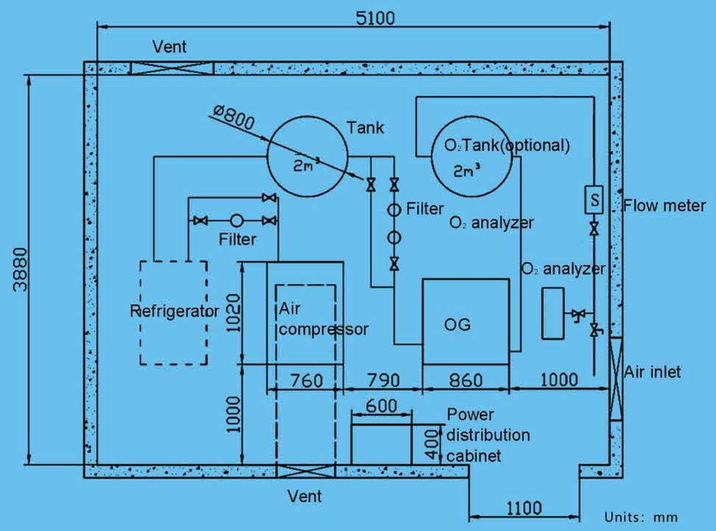


Typical Schemes 3



Typical Schemes 4

Schematic drawing of installation for the oxygen generation system



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PSA Medical Oxygen Generation System

BeaconMedæs
45 XiMei Road
Xinwu District, Wuxi
China (214028)
Phone: +86 510 6666 6876
www.beaconmedaes.com

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