



옥서스 O₂ 필링 시스템 제안서

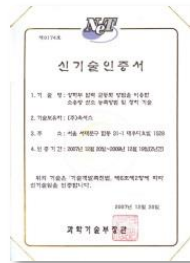
OXUS OXYGEN FILLING SYSTEM PROPOSAL



CERTIFICATIONS



Selected as
the World's best product
Dec. 2006
Ministry of Commerce
&
Jang Yeong-Shil Prize
Jun. 2003 / Jun. 2008
Ministry of Science & Tech



Selected as NeT
(New Excellent Tech)
Company
Dec. 2007
Ministry of Science & Tech



Certificate of GMP
Dec. 2009
FFDA / KTL



ISO 9001:2008
certification
Sep. 2010
TUV Rheinland



CE Medical manufacture
Sep. 2010
TUV Rheinland



Certificate of CE product
Jul. 2003
RWTVU



Permit for manufacturing
of medical appliances &
Permit on manufacturing
Items
Dec. 2002
KFDA



Certificate of international
electrical safety (IEC)
Jul. 2003
KTL



Oxygen concentration device
Patent No. 10-07411307



Oxygen generator equipped
with supplementary
Oxygen generation part
Patent No. 10-0715532



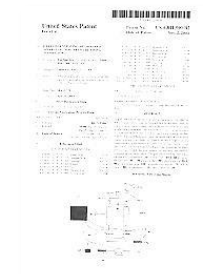
Mid to low purity
Oxygen concentration device
Patent No. 10-0715016



Oxygen generation module
Patent No. 10-0615673



Gas concentrating method
& apparatus using pressure
swing adsorption
Patent No. US 6,811,590 B2



Concentrating chamber
in Oxygen concentrating
apparatus
Patent No. US 6,793,719 B2

SPECIAL FEATURES OF GOODS



Electric control enables energy saving



Stable and convenient oxygen supply



On-Site oxygen generation/filling system



Backup-charged into a cylinder rack



Self diagnosis & System management



Compactness by designing



Adapted to all temperatures



Cooling system



Resistant to humidity & salinity

최적설계 통한 간단한 구조로 Compact 제품 구현.
Compactness by designing simple and optimum construction.

전자제어에 의한 Compressor part 순차 가동으로 내구 성능 개선 및 에너지 절감.
Sequential operation of compressor part by electric control enables energy saving and enhancement of durability.

압축공기를 이용한 On-Site(현장생산) 방식으로 현장에서 산소를 직접 생산/고압 충전 하므로 액체산소처럼 배달지연이나 산소가격 변동에 영향을 받지 않음.
No risk of delay delivery or oxygen price fluctuation due to On-Site oxygen generation/filling system type using compressed air.

중소형 병원의 연속적인 산소 공급 외 사용시 back up 충전 하여 여분의 실린더 rack에 이동식 기타 목적으로 사용가능.
Besides the continuous oxygen supply in medium/large sized hospital, it can be used as a portable or other purposes after being backup-charged into a cylinder rack.

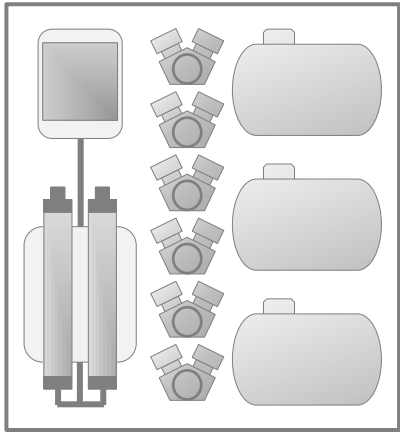
사용자의 조건에 따라 산소 생산량, 압력 등을 고객의 사양에 맞게 설계 반영할 수 있음.
Adjustable oxygen flow rate, pressure, etc. as per required condition of customers.

전원공급만으로 안정적으로 휴대 용이한 형태로 산소 공급.
Stable and convenient oxygen supply only with electric power.

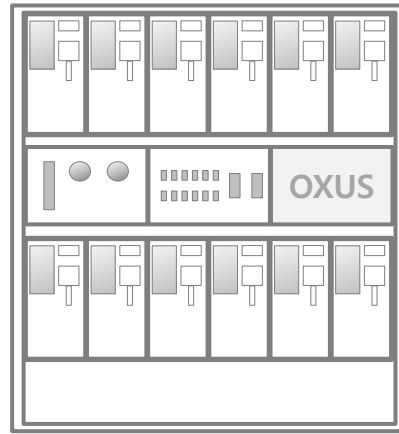
수산용(염분,습도)제품 현장 적용 경험 Know how보유.
Aquaculture & Industrial(salinity, humidity) product on-site application know-how.

Oxygen Analyzer 자체생산 기술 확보.(자체진단 및 System 관리)
Retaining Oxygen Analyzer producing skill. (Self diagnosis & System management)

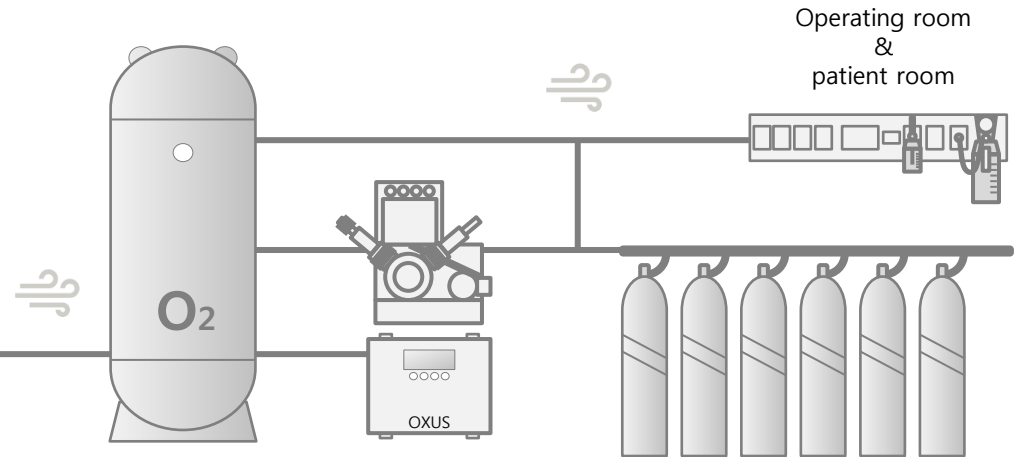
PROCESS



Air compressor



Oxygen generator



Oxygen high-pressure compressor

Filling Rack



- Direct Oxygen production & high pressure Oxygen filling system on site.
- Existing manifold system is still used with filling Oxygen to used cylinder.
- Possible to fill other Oxygen cylinders at the same time while the filled gas cylinders are consumed.

■ Oxygen Concentrate Apparatus

Model	RAK-U04M	RAK-U06M	100 LPM Over
Oxygen Flow	32±3 LPM	48±3 LPM	100 LPM ~
Oxygen Level	93±3 % O ₂		
Output Pressure	4~5 bar		
Dimension (WxDxH)	1052 x 612 x 1670	1052 x 612 x 1670	-
Central Monitoring	TCP/IP Protocol Communication by UTP cable		
Alarms	Low pressure Alarm, Power failure Alarm		
Switching Valve	Valve open when Power failure Alarm		
Oxygen Sensor	High resolution Zirconia sensor		

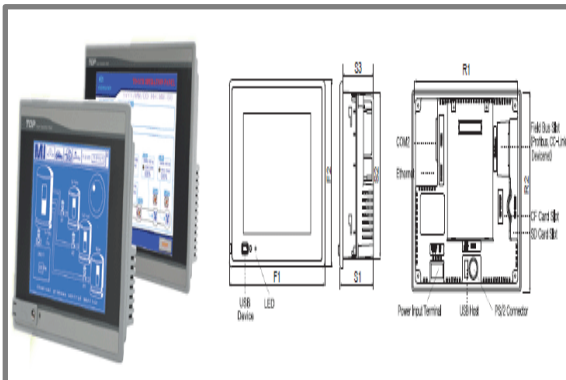
■ Booster

Model	2PS2B	2V3B
Max. Pressure	152 bar	172 bar
Flow Rate	14 - 57 LPM	100 - 268 LPM
Cooling	Air Cooled	Air Cooled
Dimension (WxDxH)	910 x 760 x 610	1220 x 1450 x 760

■ Total System

Voltage/Frequency	220V/60Hz	220V/60Hz	220V/60Hz
Power Consumption	3.5KVA±10%	4.4KVA±10%	7.5KVA±10% (Only booster)

OPTIONAL PARTS



Touch screen

- Air pre-treating unit control function
- Absorption/Desorption cycle control function
- Emergency shutdown function
- Oxygen purity check/alert function
- PSA humidity alert function
- Oxygen discharge pressure check/alert function
- Pneumatic Valve exhausting Residual pressure Integration Function



Respirator

Equipped to Military/Portable ambulance and treating respiratory trouble



Rack

3set/4set of additional Oxygen Cylinder(40L) Rack composition.



TECHNICAL FUNCTION

Alarm Function





APPLICATION AREA



Hospitals Public & Private, Medical Center, Military & Civil Protection

We are always committed to offering a system guaranteeing the production of medical quality oxygen with as principal objective, the improvement and rehabilitation of primary health care. Our oxygen production unit is specially designed for the medical environment and responds to precise criteria.



의료 설비 공급 가스
Gas Supply to Medical Facility



의료용 긴급 앰블런스
Emergency Medical Ambulance




군용 야전 응급처치
Military Field Expedient





CONTACT

어피니티 메디컬은 합리적인 가격으로 최고의 제품을 구매하실 수 있도록 최선을 다하고 있습니다. 또한 병원 경영에 도움을 드리고자 컨설팅 서비스를 제공하고 있습니다. 견적 / 제품문의 및 컨설팅 문의는 연락처와 함께 메세지를 보내 주시면 성심을 다해 답변 드리겠습니다.

Affinity Medical is making every effort to give you the high quality products at a reasonable price. We are also providing the consulting services for hospital managements. If you need any help for price quotations or inquiries, please feel free to contact us.



Oxus AFFINITY MEDICAL CO., LTD.

-  434, Yongmasan-ro, Jungrang-gu, Seoul, 02189, Korea
-  +82. 2. 434. 8822 (Seoul) / +82. 42. 825. 5585 (Daejeon)
-  +82. 2. 439. 5200
-  www.affinitymed.co.kr
-  lin0326@naver.com / drtools@naver.com