

HOME OXYGEN THERAPY

# Medical Oxygen Supply Product



HOSPITAL EQUIPMENT



# Oxygen Technology Research Center, **OXUS**

Oxus promotes the vitality of life through oxygen and realizes its value through technology with the motto "Life, Oxygen and Technology". Our medical oxygen generating technology is at the zenith of such value orientation and is being steadily developed according to a long-term plan. Currently Oxus has the key technical data, manufacturing infrastructure and service know-how which have been accumulated over the years in the field of medical oxygen generating technology. Oxus will be also taking the lead out in the field of oxygen-related health care applications.



**A healthy idea for a healthy life! Oxus will keep it.**

## Certifications & Patents





**Awards and certifications**  
from various countries



**Organized**  
quality management



**Global Network**



**CE MDD**  
(Medical Devices Directive)  
Certification



**Korean**  
medical oxygen generator  
manufacturer

## **Core Technologies**

### **1. Independent PSA Technology**

PSA is the core technology corresponding to the heart of oxygen generator. Oxus, a technology-oriented venture business which started from a research room in Sogang University and was developed through national project, developed its own manufacturing technology for the PSA oxygen generating modules. Our technology has been internationally recognized including the patent license agreement with Delphi Medical in the USA for US patent no. 6,793,719 and 6,811,590 relevant to the core PSA technology. Although such PSA technology becomes common now, the products of Oxus which has long technical development history and know-how are still recognized as a typical brand of oxygen generators from home and abroad.

### **2. Optimized Solutions for Consumer Needs**

In order to fit the corporate motto and provide better oxygen generating technology, the Oxus' oxygen technology research center works in parallel with a study on the oxygen analysis and the effect of oxygen breathing on the human activities, which contributes to the higher technology and maturity level of the oxygen generators by field. Also, the research results apply to the products in order to products and services optimized for the customers' needs.

# Oxygen Generator

For Small & Medium sized hospital and Nursing hospital



## RAK-U06M2E /RAK-U03M2E

CE 0068  
CE MDD Certified

### Product safety

- Power failure alarm function
- Low pressure alarm function

### Oxygen supply efficiency

- Built-in booster(compressor)
- The product turns off automatically when the set pressure reaches 6.5 bar.

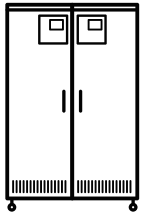
### Maintenance differentiation

Even if one unit fails, the equipment does not turn off.



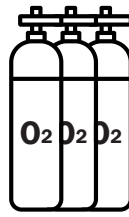


## Why should you choose Oxus Oxygen Generator?



### Pros of oxygen generator

- Ease of maintenance
- Cost effective
- Space saving



### Problems with liquid and gas oxygen

- Hassle of oxygen tank filling and replacement
- Large space occupation
- Danger of high-pressure tank
- Danger of damaging facilities while moving tanks



## Product Detail

Since each units are connected in parallel, problems can be solved with simple unit replacement.



### 1,5 Control unit

Operate the device and display the status

### 2,3,4,6,7,8 Oxygen unit

Each unit produces oxygen



### 1 Control unit

Operate the device and display the status

### 2,3,4 Oxygen unit

Each unit produces oxygen

Units can be individually turned on/off depending on the amount of oxygen required.



### Optional Accessory

#### 1. Oxygen Storage Tank

- This product requires Oxygen Storage Tank.
- Minimum tank volume is 100 Liter for 30LPM oxygen output.
- The picture illustrates 100 + 100 Liter tank arrangement (supplied by Oxus) for 60LPM Model.
- Any type of tank (oxygen rated above 8 bar) can be used for installation.

#### 2. PC BOX

- Monitoring system possible

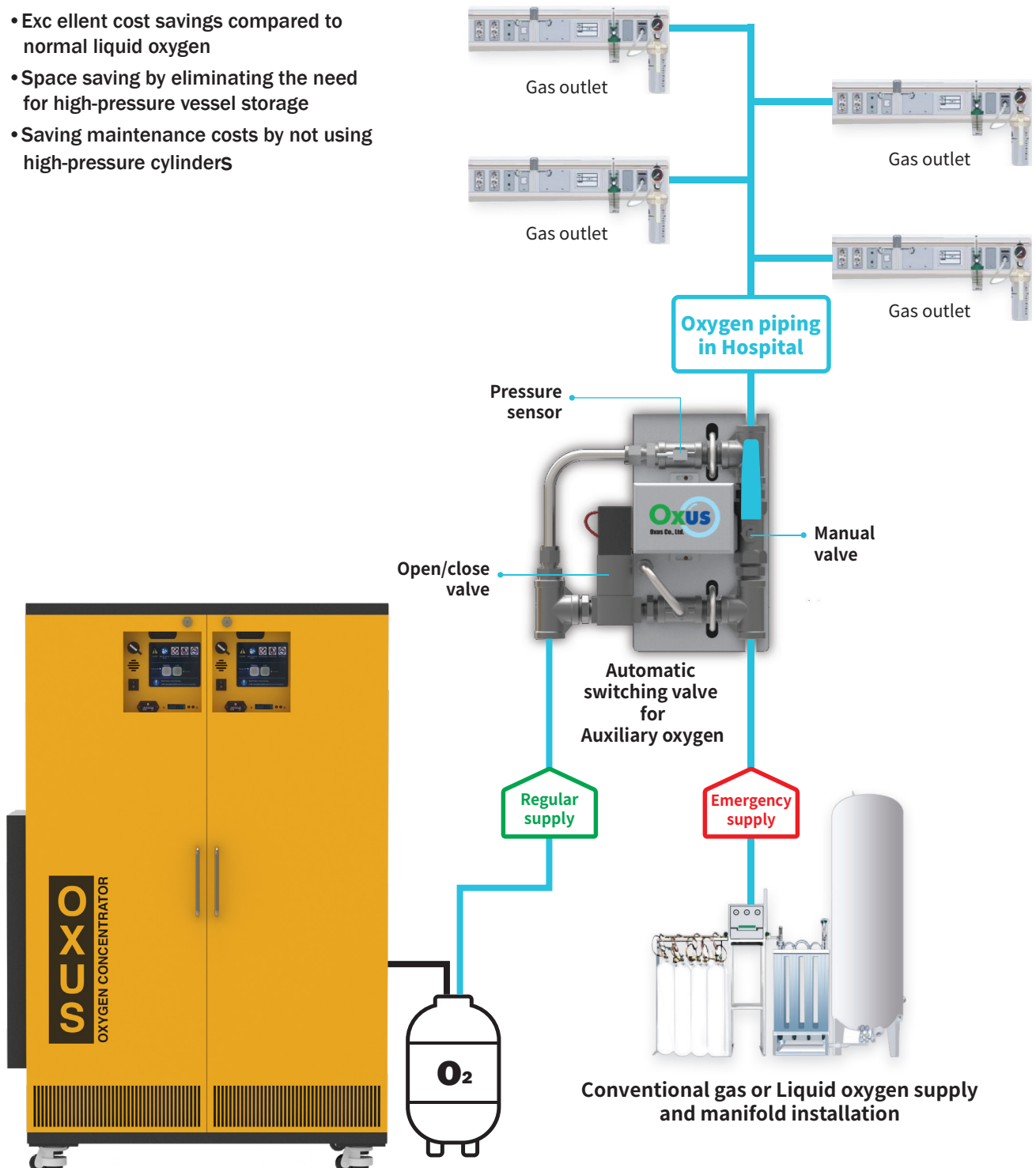




# Medical oxygen supply system

As a system built to replace the continuous supply of liquefied and high-pressure oxygen to the central gas piping system used in medium, large hospitals, and nursing clinics medical oxygen supply system(RAK-Series) can continuously operate and supply oxygen to the central piping system for 24 hours, 365 days a year.

- Uninterrupted oxygen supply with continuous oxygen generation
- Excellent cost savings compared to normal liquid oxygen
- Space saving by eliminating the need for high-pressure vessel storage
- Saving maintenance costs by not using high-pressure cylinders



## RAK-U06M2E

Total production in one day: 86,400L

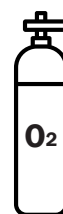
Gas oxygen (As for 40L, 120bar): 18 cylinders

Oxygen Flow	60±3 LPM
Oxygen Purity	93±3%
Oxygen Pressure	Max. 6.5 bar
Voltage(Frequency)	230V (50Hz)
Power Consumption	4.25 KW
Operating Environment	0°C ~ 40°C, 0% ~ 90 %, 1090hPa~800hPa
Noise Level	Max. 70dB
Weight	260kg
Dimension(W x D x H)	960 x 600 x 1,550mm
Electrical protection type	Class1



1 Day

18  
cylinders



## RAK-U03M2E

Total production in one day: 43,200L

Gas oxygen (As for 40L, 120bar): 9 cylinders

Oxygen Flow	30±3 LPM
Oxygen Purity	93±3%
Oxygen Pressure	Max. 6.5 bar
Voltage(Frequency)	230V (50Hz)
Power Consumption	2.15 KW
Operating Environment	0°C ~ 40°C, 0% ~ 90 %, 1090hPa~800hPa
Noise Level	Max. 70dB
Weight	130kg
Dimension(W x D x H)	480 x 600 x 1,550mm
Electrical protection type	Class1



1 Day

9  
cylinders



# Oxygen Concentrator

For Home Oxygen Therapy



## OXUS 502R

- Quiet operation provides comfort usage during sleep
- Fine oxygen flow control (0.5L increment)
- Detachable humidifier
- Oxygen purity alarm
- Reduced electricity bills due to low power consumption
- Quick parts replacements



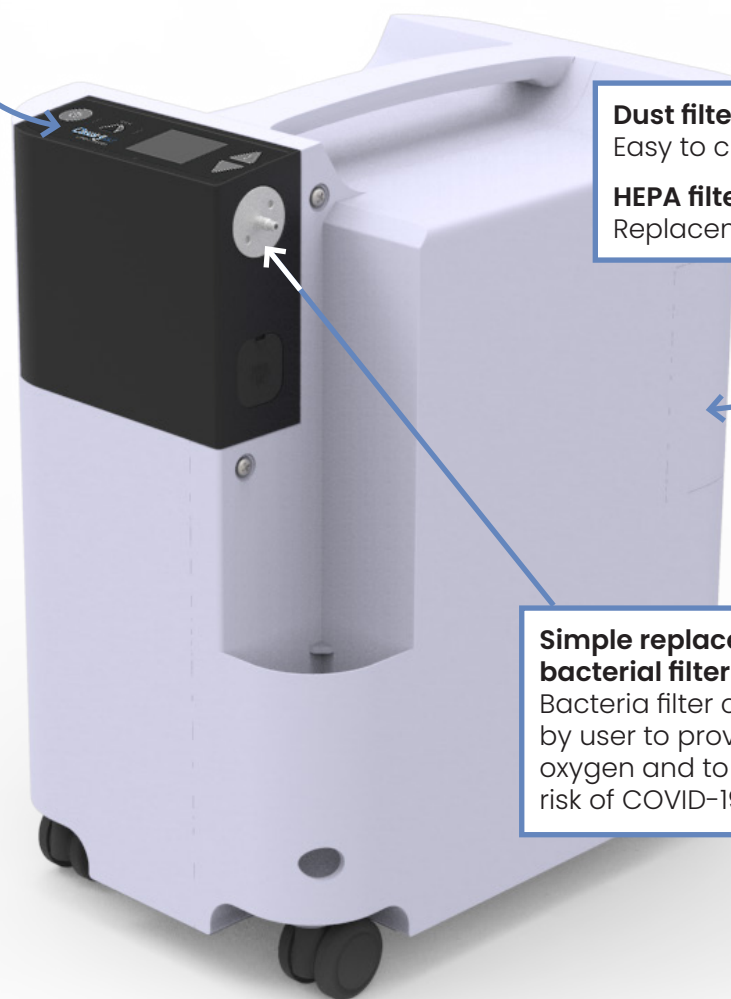
## For Users

- Low noise level  
(5LPM) 33dB  $\pm$ 10% or less  
(2LPM) 31dB  $\pm$ 10% or less
- High power efficiency (power consumption 265W)



- User-interface has a flowmeter indicator for accurate viewing and adjustment (0.5 liters)
- Warning indicator lights up if the oxygen purity drops below 82%

- ① Power Button
- ② Warning indicator
- ③ Flow rate display
- ④ Accumulated Usage Time
- ⑤ Flow adjustment button



### **Dust filter**

Easy to clean regularly by users

### **HEPA filter**

Replacement every 3,000 hours

### **Simple replacement of bacterial filter**

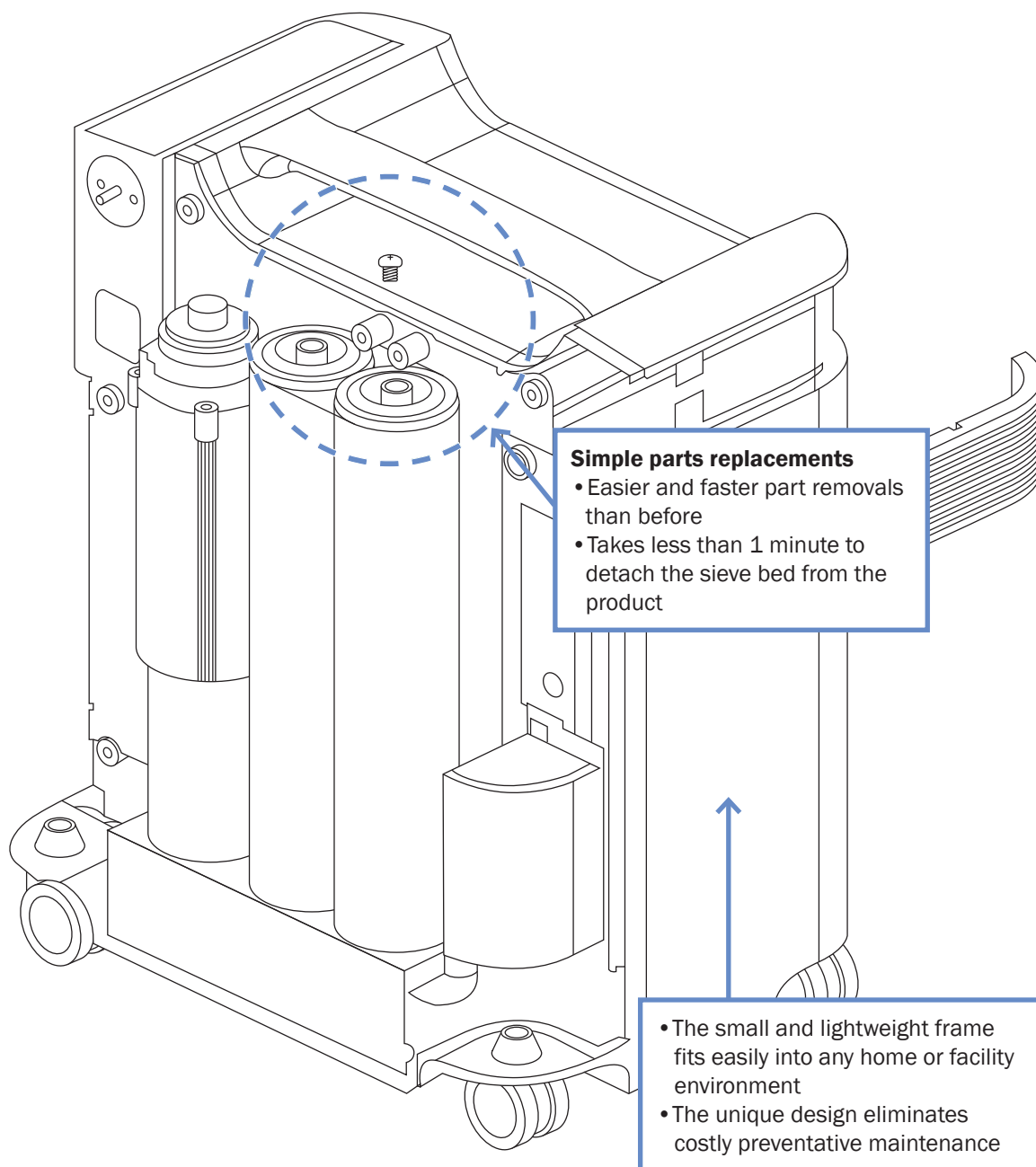
Bacteria filter can be replaced by user to provide cleaner oxygen and to decrease the risk of COVID-19

Attached wheels provide ease of movement



## For Providers

- Best choice for a cost-effective device
- Low failure rates
- These features reduce noise complaints and operation costs of product refunds and exchanges





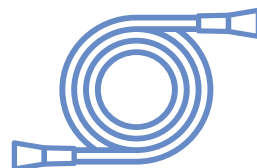
## Components



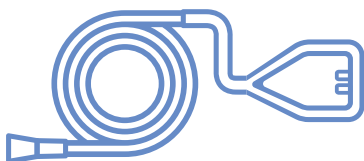
Oxygen humidifier bottle



Connection tube(30CM)



Extended  
connection tube(4.2M)



Nasal oxygen cannula



Humidifier bottle holder



Hose barb



## Product specification

Oxygen Flow	0.5 - 5 LPM
Oxygen Purity	93 ± 3 Vol %
Max Discharge Pressure	35 kPa (0.35 bar)
Noise Level	(5LPM) 33dB ±10% or less
	(2LPM) 31dB ±10% or less
Voltage(Frequency)	230V (50Hz)
Power Consumption	265W
Dimension (W x D x H)	273 x 392 x 496mm
Weight	17kg
Operating Environment	Temperature 5°C to 40°C Humidity 15% to 93% Atmospheric pressure 700~1,060 hPa (700~1,060 mbar)



Life, Oxygen and Technology