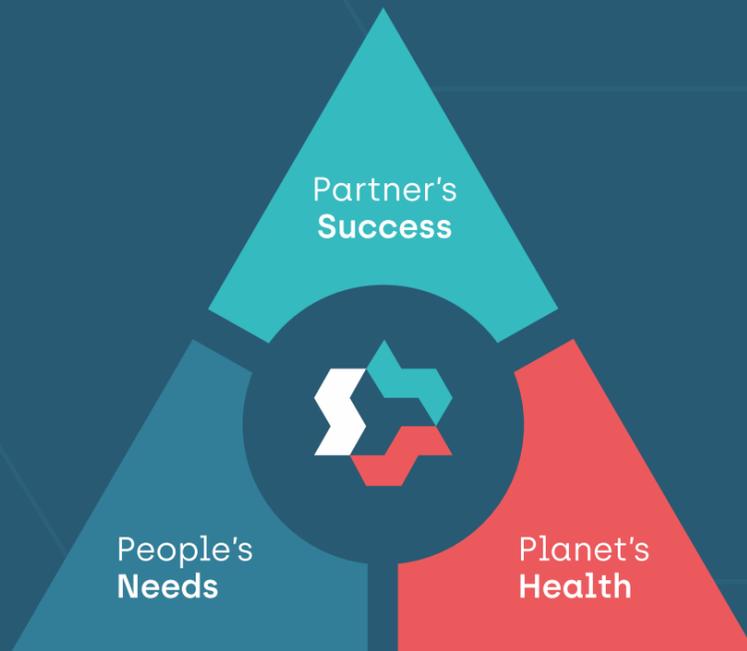


27<sup>+</sup>  
YEARS  
OF  
EXCELLENCE



# Harvesting the elements of air through innovation for



**NEW** | DIMENSIONS SOLUTIONS

## O<sub>2</sub> OxyLife Oxygen Generator



Scan QR Code For Product Animation



Summits Hygronics Private Limited  
S.F. 192 Earihottam, Kannampalayam,  
Coimbatore - 641 402. India.

+91 95009 96000  
enq@summitsgroup.in  
www.airdryer.in



Scan QR Code for E-Catalogue



O<sub>2</sub> Flow upto  
1250 lpm

O<sub>2</sub> Pressere  
upto 5 bar g

O<sub>2</sub> purity upto  
93±3%

Plug-and-  
-play

Fastest  
ROI

Reduced CO<sub>2</sub>  
Foot Print





- Innovation
- Flexibility
- Sustainable engineering



## State-of-the-art Infrastructure

Fully-equipped production facility built across an area of 68,000 ft<sup>2</sup>.



Engineering Design

### Dedicated Research and Development

Core strength lies in R&D. Our **product researchers, designers, and engineers** work on the **frontiers of applied science** to build **world-class solutions** for compressed air purification and gas generation.



Automated Welding Facility

### Industry's Best Tools and Equipment

Our R&D lab has sophisticated tools such as **3D modeling software - Solid Edge** (in partnership with Siemens), Simulation, Analysis & CFD software, and Test rigs.



Manufacturing Facility

### Stringent Quality Assurance Procedures

Starting from material inspection to in-process inspection to final product testing, we undertake comprehensive quality assurance procedures to ensure consistency in Guaranteed parameters.



Fabrication Facility



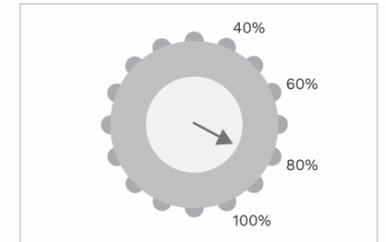
Office Space



# O<sub>2</sub> OxyLife Oxygen Generator



Premium grade **Zeolite** as this defines consistency in long term performance



**Energy Economizer** offers potential savings during varying load condition.



**Feed air quality monitoring** ensures stringent pretreatment.



**Auto flow balancing** system



**Valve Leak Check** offers trouble free operation 24 X 7



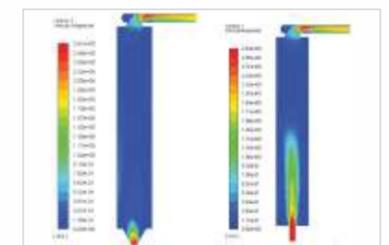
**Advanced PLC** - Integrated PLC with numerous facilities, controls, maintenance alert compatible to industries required communication protocol



**Stainless steel** interconnecting piping



**7" HMI** wireless monitoring is optional



**Uniform distribution** of gas flow over the entire ZMS, ensures the highest efficiency of the adsorption process and lowest air ratio.

## Technical specification

Model	Oxygen Flow (lpm)	Oxygen Flow (m3/hr)	Eqv. Cylinder (D*) per day (Nos)	Eqv. Liquid Oxygen per day (Lts)	Compressor (kw)	Over all Dimensions (mm)		
						Width	Depth	Height
OxyLife2	30	2	7	60	4	3500	4000	2500
OxyLife3	50	3	10	90	5.5	3500	4000	2500
OxyLife5	85	5	17	150	7.5	3500	4000	2500
OxyLife8	130	8	27	240	11	5800	1900	2800
OxyLife8+	150	10	34	300	15	5800	1900	2800
OxyLife12	200	12	41	360	15	5300	2100	3300
Oxylife15	250	15	51	450	18	6000	2500	3000
OxyLife15+	300	18	62	540	22	6000	2500	3000
OxyLife21	350	21	72	630	26	6200	2600	3300
OxyLife21+	400	24	82	720	30	6200	2600	3300
OxyLife27	450	27	93	810	30	6200	2500	3300
OxyLife32	530	32	110	960	37	6500	2700	3400
OxyLife32+	580	35	120	1050	45	6500	2700	3400
OxyLife37	610	37	127	1110	55	7400	2700	3400
OxyLife45	750	45	154	1350	55	7400	2700	3400
OxyLife56	930	56	192	1680	75	8000	2800	3600
Oxylife75	1250	75	257	2250	110	8500	2800	3600

•Performance 30°C Ambient temperature \*D type cylinder - Capacity 7m3

Specifications	
Oxygen purity	93 ± 3%
Designed operating pressure range	6 - 10 bar g
Designed operating temperature range	5 - 50°C
Recommended operating temperature	5 - 45°C
Maximum inlet particulate	0.1 micron
Maximum inlet oil content	0.01 ppm
Recommended inlet dew point	3°C PDP



Advanced PLC

### Pressure correction factors

Inlet air pressure (bar g)	6	7	8	9	10
	0.88	1	1.1	1.2	1.3

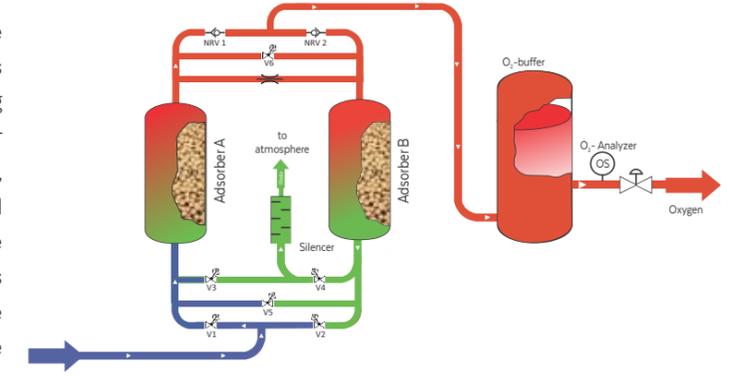
### Temperature correction factors

Inlet air temperature (°C)	5	10	15	20	25	30	35	40	45	50
	0.8	0.9	0.94	1.03	1.06	1	1	0.95	0.85	0.72

For High pressure contact factory

## How it works

Summits Medical Oxygen Generator system works on the principle of Pressure Swing Adsorption widely termed as PSA. This conventional gas separation technology is being used to separate Oxygen from Compressed air. The major components are a pair of adsorbent vessels, product tank, switching valves, intelligent PLC, Oxygen analyzer and instruments. The adsorbent vessels filled with Zeolite preferentially adsorbs nitrogen and CO2 whereas Oxygen is not adsorbed by Zeolite due to its larger molecular size hence passes through the absorber and get stored in the product tank. Based on the prefixed time interval, the online adsorber switches to regeneration mode and Adsorbed gas from Zeolite is purged out to the atmosphere. During this operation, Oxygen analyzer monitors the oxygen concentration. If oxygen concentration is less than the pre-set value, PLC switches the vent valve and purging out the impure gas till it reaches the required purity level. At the same time, hospital's Oxygen demand will be met by a secondary source of supply (Cylinder / LMO) through alternative valve automatically.



## Compact Medical O<sub>2</sub> plants

Perfect solutions for small Hospitals and Clinics

- Oxygen flow output : 18 lpm
- Oxygen Purity : 93 ± 3%
- Oxygen Pressure : 4.5 bar g



tot series medical oxygen generation plant is meticulously designed in meeting the Oxygen needs for small hospitals and clinics. tot occupies very less space with the fastest ROI fulfilling the needs of every hospital's medical oxygen needs.



### Fish Farming

Increase in fish production and life span by providing sufficient oxygen using OxyLife Generators. Prevents ice formation during winter season. Increase in oxygen content compared to typical air-fed aerating system. Distributes uniform oxygen throughout the field.



### Medical

In medical, Oxygen is the heart of the treatments. It is highly used for surgery, intensive care treatment, inhalation therapy etc. Instead of having and maintaining stocks of oxygen cylinders, oxygen generator achieve life-time service.



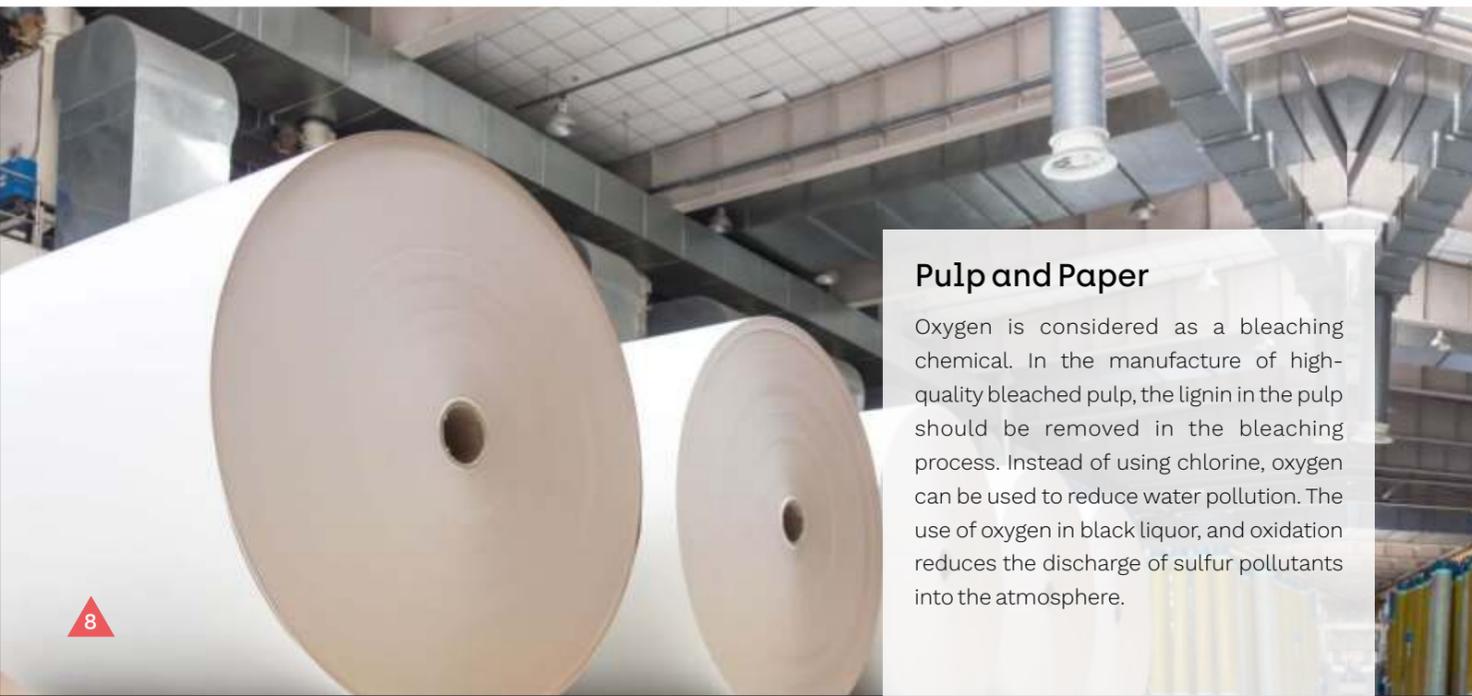
### Sewage Treatment

Oxygen enriched gas instead of air enhances efficiency of biological treatment of waste water and increases the capacity in existing treatment plants. Injecting oxygen into sewers reduces hydrogen sulfide formation, which results in reduced corrosion and odor.



### Furnace Enrichment

Oxygen enrichment of combustion air or oxygen injection through lances, used in cupola furnaces, open hearth furnace smelters for glass and mineral wool to enhance their capacity and reduce energy requirements. A high thermal efficiency is achieved by these oxy-fuel burners, which mixes fuel and oxygen at the tip of the burner. Results in rapid combustion.



### Pulp and Paper

Oxygen is considered as a bleaching chemical. In the manufacture of high-quality bleached pulp, the lignin in the pulp should be removed in the bleaching process. Instead of using chlorine, oxygen can be used to reduce water pollution. The use of oxygen in black liquor, and oxidation reduces the discharge of sulfur pollutants into the atmosphere.



### Glass and ceramics industries

Conversion of combustion systems from air-fuel to oxy-fuel, results in better control of heating patterns, higher furnace efficiencies and reduction in particulate and NOx emissions.



## Up & Running: Worldwide Installations Since 1996

SE Asia	GCC	African Countries		
 Srilanka  Nepal	 UAE  Saudi Arabia	 Egypt  Kenya		
 Malaysia  Singapore	 Bahrain  Oman	 Nigeria  Cameroon		
 Philippines  Indonesia	 Qatar  Kuwait	 Tanzania		
 Thailand  Vietnam	<th>EU</th> <td> <th>Americas</th> </td>	EU	<th>Americas</th>	Americas
 France  UK  Poland  Sweden	 US			

## Our Clientele

More than 500 users across India
