



Pure-Ox
EcoPlus Group of Companies

Pure-Ox PSA Oxygen Systems

Think of Medical Oxygen - Think of Pure-Ox



For Medical Applications



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Air Receiver

Oxygen Receiver

Oxygen PSA Plant



Air Compressor



Desiccant Air Dryer



Refrigerant Air Dryer



Auto Change-Over

On Site Oxygen Production for Hospitals



ECOPLUS INDUSTRIES PVT. LTD.

ECOPLUS Group started in the year 1997 in the spiritual land of Ganges at Varanasi. The Group has a diverse portfolio and is engaged in the manufacturing of Edible Oils, Cement, Steel, Heavy Machinery, PEB and PSA at various locations and under various brands.

Why Pure-Ox:

Hospitals and medical facilities are dependent on safe and consistent delivery of the highest quality oxygen for their patients. Pure-Ox systems relieve hospitals from handling unsanitary cylinders and being reliant on outsourced supplies. Pure-Ox enables medical facilities to be self-sufficient in generating the purest oxygen for years to come. We can even provide on-site maintenance to keep everything running perfectly well.

Purity of Oxygen:

High Purity Oxygen is essential for the health and safety of patients and staff alike. Pure-Ox system delivers constant oxygen purity of 93% $\pm$ 3%. PSA is a unique process that separates oxygen from compressed air. The gas is then conditioned and filtered before being stored in a buffer tank to be used directly by the end user on demand making them fully compliant for use in all hospitals and healthcare facilities. Pure-Ox's systems offer quick payback, greater flexibility, reliability and security of supply.

Cost Savings:

PSA oxygen can provide huge cost savings and convenience for hospitals. It eliminates residual wastage on unconsumed oxygen cylinders, meaning additional savings. It ensures clean and high-quality oxygen delivery to the patients. A medical oxygen generator can pay for itself within 2 years.

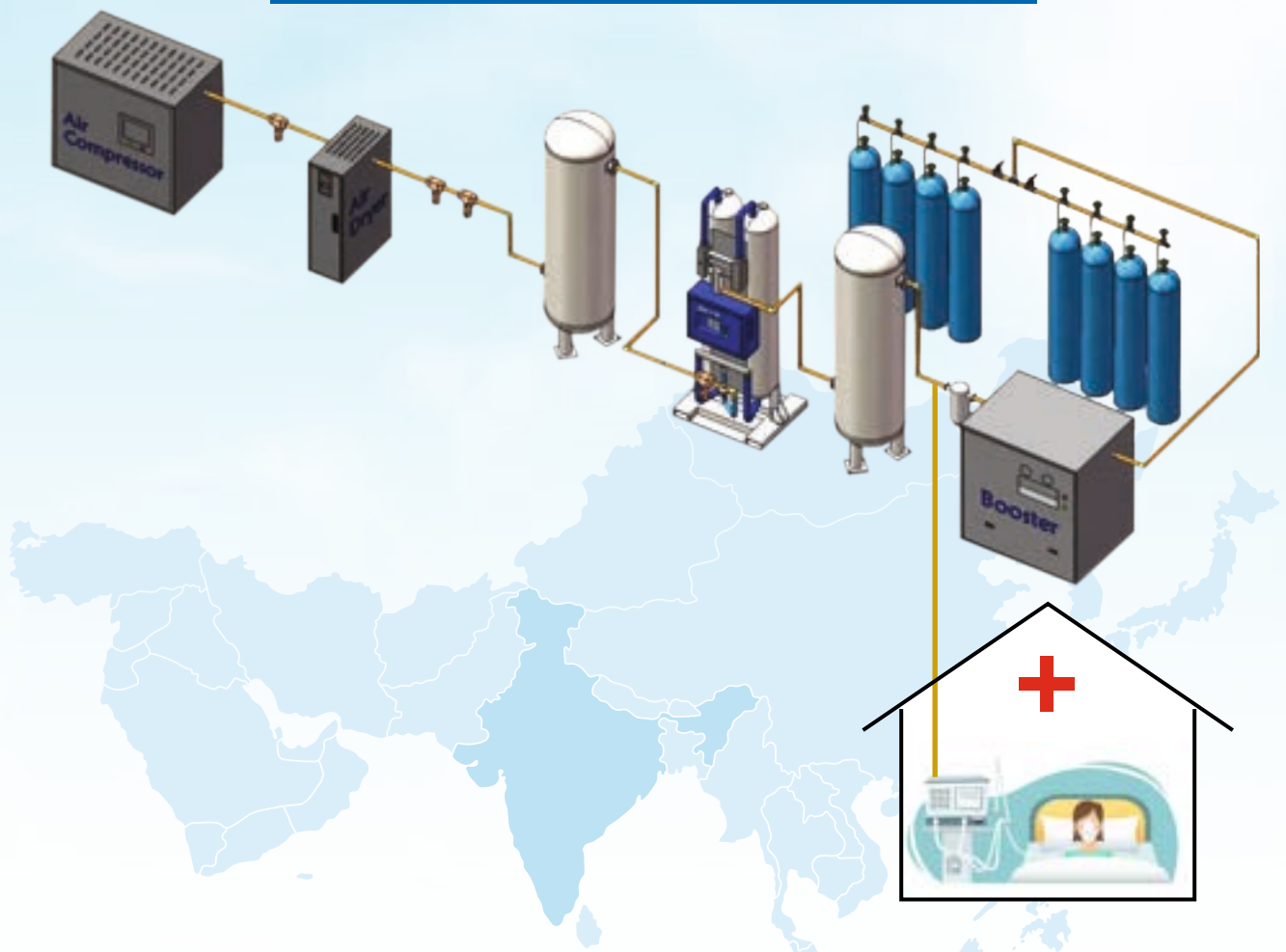
Advantages:

Pure-Ox Medical Oxygen Pressure Swing Adsorption (PSA) Automated Systems offer safety advantages, lower energy consumption, reduced maintenance bills and eliminates the inconvenience and cost of transporting gas cylinders, as the gas is supplied through pipes, where this life saving gas is needed.

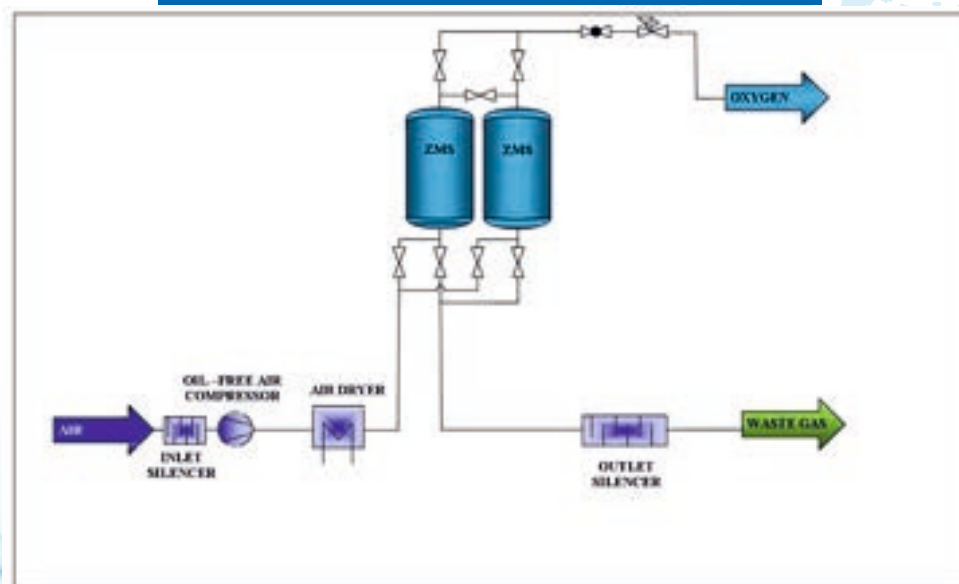
The Pure-Ox Oxygen Generator for medical facilities can be engineered to integrate with any existing system, or designed from scratch. It reduces manpower handling of oxygen cylinders, saves room space and is immediately available at the patient's bedside through sterile stainless-steel or copper piping.

PSA is recognised as the most popular method used for production of oxygen gas. Pure-Ox uses latest technology and is one of the quietest PSA Systems on the market.

PSA System Major Components



PSA Plant Schematic - Typical



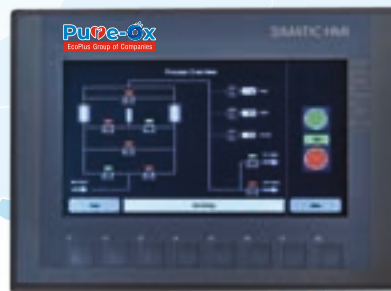
Optional Equipment



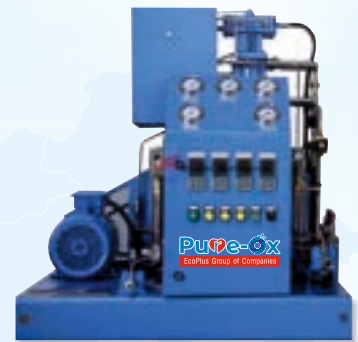
VFD



Digital Oxygen Flow Meter



HMI



Oxygen Booster

Typical Applications & Clients Served

Oxygen Therapy | Hospitals and Medical Facilities
Mobile Military / Medical Clinics | Veterinary Facilities





ISO 7396-1:2016



CE



FDA



ISO 13485:2015



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018

TYPICAL MEDICAL OXYGEN SYSTEM SPECIFICATIONS

Model Pure-Ox	Capacity		Pressure		Air Requirement (Rotary Air Compressor)			Air Receiver Liters	Oxygen Receiver Liters	Equivalent D Type Cylinder Per Day
	LPM	Nm ³ /hr	BAR	PSI	CFM	Pressure Kg/cm ²	Power in KW			
EP-D+	47	2.63	4.5	65	26	7	5.5	500	500	10
EP-E	92	5.10	4.5	65	40	7	7.5	500	500	19
EP-G	151	8.40	4.5	65	71	7	11	500	500	31
EP-J	283	15.80	4.5	65	120	7	18.5	1000	1000	58
EP-K	424	23.70	4.5	65	206	7	30	1500	1500	87
EP-L	613	34.20	4.5	65	255	7	37	1500	1500	126
EP-N	849	47.30	4.5	65	380	7	55	2000	2000	175
EP-P	1085	60.50	4.5	65	522	7	75	3000	3000	223
EP-Q	1321	73.60	4.5	65	585	7	90	3000	3000	272
EP-R	1746	97.30	4.5	65	706	7	110	4000	4000	359
EP-W	2170	120.90	4.5	65	855	7	132	6000	6000	446
EP-Z	2595	144.60	4.5	65	1026	7	160	6000	6000	534

HIGHEST QUALITY OF MEDICAL OXYGEN

We Also Provide 99% Purity PSA Oxygen Generator

Parameters	Chemical Formula	ISO 10083	United States USP XXII Oxygen 93%	European Pharmacopeia Oxygen 93%	Indian Pharmacopeia Oxygen 93%	Pure-Ox EcoPlus Group of Companies
Oxygen	O ₂	> 90%	90% - 96%	90% - 96%	90% - 96%	93% ± 3%
Carbon Dioxide	CO ₂	< 300 ppm	< 0.03%	< 300 ppm	< 300 ppm	< 50 ppm (0.005%)
Carbon Monoxide	CO	< 5 ppm	< 0.01%	< 5 ppm	< 5 ppm	< 0.5 ppm (0.00005%)
Nitrogen Oxide	NO _x	-	-	< 2 ppm	-	0 ppm
Sulfur Dioxide	SO ₂	-	-	< 1 ppm	-	0 ppm
Oil	-	< 0.1 mg/m ³	< 0.1 mg/m ³	< 0.1 mg/m ³	< 0.1 mg/m ³	< 0.003 mg/m ³
Water	H ₂ O	< 67 ppm) (-50°C)	-	< 67 ppm) (-50°C)	< 67 ppm) (-50°C)	< 1.5 ppm) (-50°C)

Note:

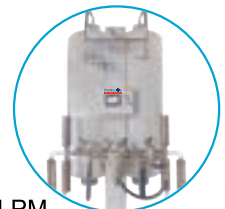
Recommended PSA Capacity Selection Procedure :

Required PSA LPM = (Total No. of Beds) + (Total No. of Beds in ICU and OT x 10)

D Type Jumbo Cylinders contains 6800 Liters of Oxygen Gas at 150 Barg Pressure

All Pure-Ox PSA Oxygen Systems have an expected power consumption of 6.78 kWh ±5% per 100 LPM of total flow, nominal 93% oxygen at 4.5 barg product pressure at maximum plant capacity

LPM (Liters per minute) gas is measured at 1 atmosphere and 21°C and Generators produce a product dew point of -73°C All performance ratings based on an ambient temperature up to 38°C, 1,000 feet elevation and 80% relative humidity.





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Pure-Ox Excels as one of the Leading Supplier of PSA Medical Oxygen Systems - Offering the Most Cost-Effective, Most Reliable and Safest Oxygen Sources for Today's Diverse Oxygen Application.



Contact Address:

ECO PLUS

EcoPlus Industries Private Limited

Palwal Factory : Mustkill No. 35 & 36, Village Nangla Bhikhu, Dudhola Road, Palwal, Haryana -121002

Chandauli Factory : 680/3, Patanwa, Basant Nagar, Chandauli, Uttar Pradesh – 221110

Email : info@pure-ox.com, Website : www.pure-ox.com

