

# On Site Oxygen Generation Systems

# GAS TEC<sup>®</sup>

On-site production of oxygen gas for industrial & medical applications

## Benefits

- ✓ Economical - saves 20 to 30% over cylinders gas cost
- ✓ Convenient - reduced cylinder handling
- ✓ Environmentally friendly
- ✓ Safe - reduced high pressure gas inventory
- ✓ Improves productivity

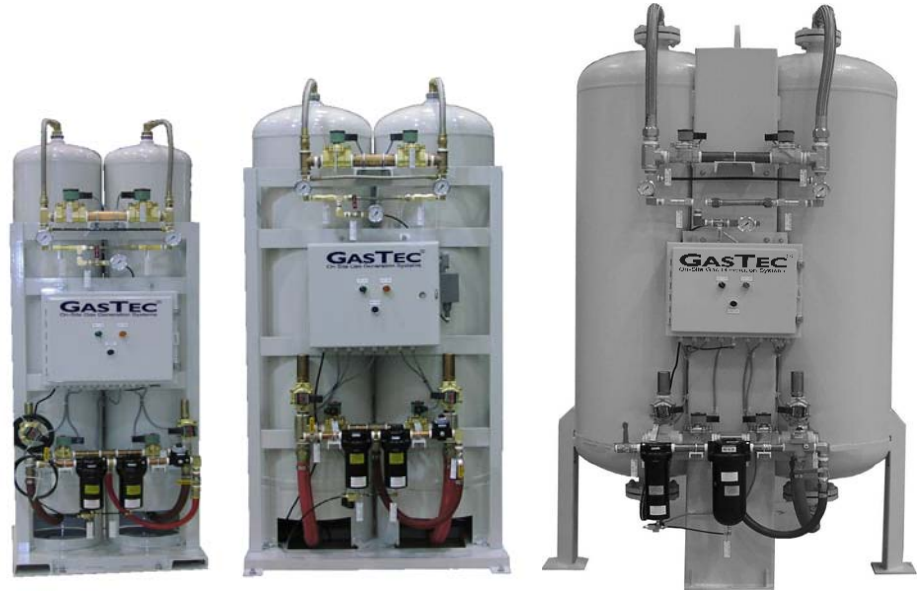
## Features

- ✓ High energy efficiency
- ✓ Rugged & durable design
- ✓ Easy to install & maintain
- ✓ Gas on demand technology
- ✓ Reliable, continuous round the clock operations
- ✓ User friendly, fully automated controls

## Applications

- ✓ Medical oxygen
- ✓ Welding, brazing, heating
- ✓ Glass making
- ✓ Ozone generation
- ✓ Waste treatment
- ✓ Aquaculture
- ✓ Mining, gold processing

# O<sub>2</sub>



Standard Range GasTec Oxygen Generator (0.53 – 53 Nm<sup>3</sup>/hr)



Engineered Systems  
Medical oxygen cylinder filling plant  
(10 – 120 cylinders per day output)

### GasTec Oxygen Generator

Atmospheric air contains 21% oxygen, 78% nitrogen and 1% other gases. The GasTec Oxygen Generator produces oxygen by separating the oxygen from air using a proven pressure swing adsorption process & zeolite molecular sieve

### Proven Reliability

GasTec oxygen systems are designed for 24 hour, 365 days per year operation.

### Low Oxygen Production Cost

The average oxygen production cost is 1.2 kWh per cubic meter of oxygen at 90% purity, 3.1 bar output.

### Design for Medical Applications

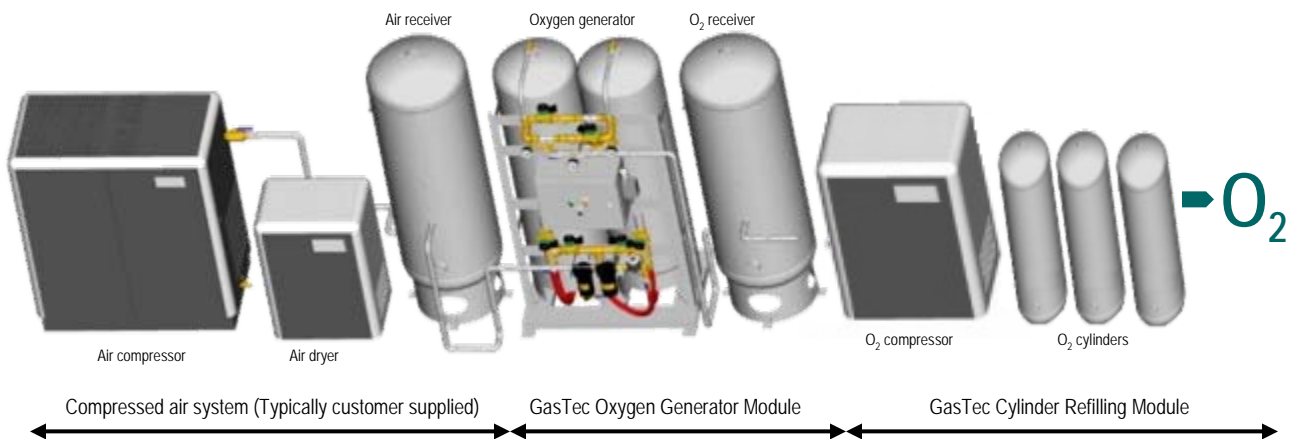
GasTec medical oxygen system complies with HTM2022 and is certified for medical use.

# Oxygen Generator

# Specifications

Oxygen Generator Model	Oxygen Output 90% - 95% purity (Nm <sup>3</sup> /hr)	Compressed Air Input, 6.1 bar (Nm <sup>3</sup> /min)	Compressor Size, 8 bar (kW)	O <sub>2</sub> Generator Dimension (L x W x H, mm)	Weight (Kg)
AS-20	0.53	0.14	1.0	280 x 330 x 1450	59
AS-45	1.18	0.29	2.2	380 x 430 x 1470	106
AS-80	2.10	0.53	4.0	410 x 510 x 1520	155
AS-160	4.21	0.82	7.5	660 x 690 x 1700	313
AS-250	6.57	1.23	11	710 x 780 x 1880	454
AS-450	11.8	2.19	15	860 x 1070 x 2030	863
AS-750	19.7	4.14	30	1480 x 970 x 2490	1135
AS-1000	26.3	5.52	37	1580 x 1020 x 2700	1590
AS-1250	32.9	6.84	45	1980 x 1370 x 2900	2681
AS-1500	39.4	8.28	55	2080 x 1550 x 2950	2998
AS-2000	52.6	11.0	75	2180 x 1570 x 3330	3937

# System Schematic



- Standard model, oxygen purity 90% to 95%, -73 °C DP.
- Standard model oxygen output pressure, 4.5 bar max
- Optional oxygen compressor available for pressure up to 150 bar for cylinder filling

- Clean dry compressed air to be supplied by customer
- Min. air quality, 3 °C dew point & <0.003mg/m<sup>3</sup> oil
- Min air pressure at generator inlet, 7.5 bar
- Oxygen generator power input, 230V/50Hz standard



**GAS TEC**<sup>®</sup>  
On Site Gas Generation Systems

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