



## Cylinder Gas Volumes

Gas volumes for each cylinder size vary depending on gas type and DOT pressure ratings. Gas contents range as follows:

Cylinder Size	Minimum Volume	Maximum Volume
300	300 cft	337 cft
200	200 cft	251 cft
100	100 cft	155 cft
80	80 cft	92 cft
50	50 cft	58 cft
150AL	150 cft	153 cft
E	22 cft	25 cft
D	13 cf	15 cft

## Aerobic Gas Mixtures

These mixtures are used as an atmosphere for growth of biological cultures containing aerobes

<i>Ordering Information</i>		<i>Cylinder Information</i>	
Product	Specification	Cylinder Size	CGA
5% Carbon Dioxide 95% Oxygen	Biological	200 E	500 973
2.5% Carbon Dioxide 21% Oxygen 76.5 % Nitrogen	Biological	200 E	500 973
5% Carbon Dioxide 21% Oxygen 74 % Nitrogen	Biological	200 E	500 973

Recommended Equipment Information Page:

## Anaerobic Gas Mixtures

These mixtures are used as an atmosphere for growth of biological cultures containing anaerobes. Cultures of these microorganisms thrive when deprived of oxygen

<i>Ordering Information</i>		<i>Cylinder Information</i>	
Product	Specification	Cylinder Size	CGA
5% Carbon Dioxide 10% Hydrogen Balance Nitrogen	Biological	200	350
10% Carbon Dioxide 5% Hydrogen Balance Nitrogen	Biological	200	350
10% Carbon Dioxide 10% Hydrogen Balance Nitrogen	Biological	200	350
3% Hydrogen 96%Carbon Dioxide	Biological	200	350
5% Carbon Dioxide Balance Nitrogen	Biological	200	500

Recommended Equipment Information Page:

# Medical Gas Mixtures

**Lung Diffusion Mixtures** These mixtures are used in pulmonary function tests and calibrate apparatus which measures the amount of carbon monoxide diffused through healthy versus unhealthy lungs.

<i>Ordering Information</i>		<i>Cylinder Information</i>	
Product	Specification	Cylinder Size	CGA
0.1% Carbon Monoxide 21% Oxygen Balance Nitrogen	Medical Device	200 E	500 973
0.3% Carbon Monoxide 10% Helium 21% Oxygen Balance Nitrogen	Medical Device	200 E	500 973
0.3% Carbon Monoxide 0.5% Neon 21% Oxygen Balance Nitrogen	Medical Device	200 E	500 973
0.3% Carbon Monoxide 0.3% Neon 21% Oxygen Balance Nitrogen	Medical Device	200 E	500 973
0.3% Carbon Monoxide 0.5% Neon 0.5% Acetylene 21% Oxygen Balance Nitrogen	Medical Device	200 E	500 973

Recommended Equipment Information Page:

**Blood Gas Mixtures** These mixtures are used in the calibration of research and blood gas analyzers.

<i>Ordering Information</i>		<i>Cylinder Information</i>	
Product	Specification	Cylinder Size	CGA
5% Carbon Dioxide 12% Oxygen Balance Nitrogen	Medical Device	200 E	500 973
5% Carbon Dioxide 20% Oxygen Balance Nitrogen	Medical Device	200 E	500 973
7% Carbon Dioxide 7% Oxygen Balance Nitrogen	Medical Device	200 E	500 973
10% Carbon Dioxide 21% Oxygen Balance Nitrogen	Medical Device	200 E	500 973
12% Carbon Dioxide 21% Oxygen Balance Nitrogen	Medical Device	200 E	500 973
10% Carbon Dioxide 90% Nitrogen	Medical Device	200 E	500 973
5% Carbon Dioxide 95% Nitrogen	Medical Device	200 E	500 973

Recommended Equipment Information Page:



**Medical Laser Mixtures** These mixture are used for surgical laser applications  
*Laser Gas mixture are not for drug use.*

Ordering Information		Cylinder Information	
Product	Specification	Cylinder Size	CGA
4.5% Carbon Dioxide 13.5% Oxygen Balance Helium	Medical Device	200 E	500 973
6% Carbon Dioxide 14% Nitrogen Balance Helium	Medical Device	200 E	500 973
7% Carbon Dioxide 14% Nitrogen Balance Helium	Medical Device	200 E	500 973
9% Carbon Dioxide 15% Nitrogen Balance Helium	Medical Device	200 E	500 973
9.4% Carbon Dioxide 19.2% Nitrogen Balance Helium	Medical Device	200 E	500 973

Recommended Equipment Information Page:

**Medical Drug Gas Mixtures** These multi component drug mixtures are blended using USP, NF and medical grade components.

Ordering Information		Cylinder Information	
Product	Specification	Cylinder Size	CGA
Carbon Dioxide USP in Air			
<i>Component Ranges</i> 1-10% Carbon Dioxide 20-22% Oxygen 68-79% Nitrogen	USP USP NF	200 E	280 880
<i>Component Ranges</i> 1-30% Carbon Dioxide 70-99% Oxygen	USP USP	200 E	≤7% CO <sub>2</sub> = 280/880 >7% CO <sub>2</sub> = 500/940
<i>Component Ranges</i> 1-80% Carbon Dioxide 20-99% Oxygen	USP USP	200 E	280 880
<i>Component Ranges</i> 23.5-99% Oxygen 1-76.5% Nitrogen	USP NF	200 E	280 880
<i>Component Ranges</i> 1-10% Carbon Dioxide 21.1-50% Oxygen 40-76.9% Nitrogen	USP USP NF	200 E	280 880
<i>Component Ranges</i> 1-20% Carbon Dioxide 19.5-50% Oxygen 30-76.5% Nitrogen	USP USP NF	200 E	280 880

Recommended Equipment Information Page: