



Air

Gas Data

Density: 1.200 kg/m³ @ 21.1°C, 101.325 kPa
 0.07493 lb/ft³ @ 70°F, 14.696 psia
 Specific Volume: 0.8333 m³/kg @ 21.1°C, 101.325 kPa
 13.35 ft³/lb @ 70°F, 14.696 psia

Shipping Information

CAS Registry Number: 132259-10-0
 UN Number: UN 1002
 ECCN Number: EAR99
 DOT Proper Shipping Name: Air, Compressed
 DOT Classification: 2.2 (Nonflammable Gas)
 DOT Label: NON-FLAMMABLE GAS
 TC Shipping Name: Air, Compressed
 TC Classification: 2.2
 TC Label: NON-FLAMMABLE GAS,
 NON-POISONOUS GAS

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight	
				lb	kg
1L	590	2,400	16,547	171	78
1A	590	2,200	15,168	149	68
1R	590	2,000	13,790	70	32
2	590	2,000	13,790	80	36
2R	590	2,000	13,790	48	22
3	590	2,000	13,790	41	19
3R	590	2,000	13,790	24	11
LB	170	1,775	12,238	6	3

Gas Grade Purity Specifications

Air, Acid Rain CEM Grade

Guaranteed Specifications

Carbon Dioxide	<	1 ppm*
Carbon Monoxide	<	0.5 ppm
NO _x	<	0.1 ppm
Sulfur Dioxide	<	0.1 ppm
THC	<	0.1 ppm
Water	<	1 ppm
Oxygen		20-22 %

*Available with 350 - 400 ppm CO₂. Ask for a quotation.
 A Certificate of Conformance will be provided on request.
 A lot analysis is available at a nominal charge.
 Caution: Not for human consumption.

Air, VOC Free

Guaranteed Specifications

Carbon Dioxide	<	0.5 ppm
Carbon Monoxide	<	0.5 ppm
THC	<	0.1 ppm
Total Halocarbons	<	0.02 ppm
Water	<	2 ppm
Oxygen		20-22 %

A Certificate of Conformance will be provided on request.
 A lot analysis is available at a nominal charge.
 Caution: Not for human consumption.

Air, Ultra Zero Certified

Guaranteed Specifications

Carbon Dioxide	<	1 ppm
Carbon Monoxide	<	1 ppm
THC	<	0.1 ppm
Water	<	2 ppm
Oxygen		20-22 %

A lot analysis is available on request. Please inquire for individual cylinder analysis.
 Caution: Not for human consumption.
 *Except LB – use TW-5

Equipment Recommendations	Model No.	Page No.
Dual Stage Reg.	Series 3120-590	299
Single Stage Reg.	Series 3530-590	313
Cyl. Valve Wrench	TW-4, TW-5	430
Dual Stage Reg.	Series 3120-590	299
Single Stage Reg.	Series 3530-590	313
Cyl. Valve Wrench	TW-4, TW-5	430
Dual Stage Reg.	Series 3120-590	299
Single Stage Reg.	Series 3530-590	313
LB Regulator	Series 3550-170	314
Cyl. Valve Wrench	TW-4*, TW-5	430

Air (continued)

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content US	Content Metric	Equipment Recommendations	Model No.	Page No.
Air Zero Enable THC<0.1	G2670867	1L	280 ft ³	7.93 m ³	Dual Stage Reg. Single Stage Reg. Cyl. Valve Wrench	Series 3120-590 Series 3530-590 TW-4	299 313 430
<i>Guaranteed Specifications</i>	G2670868	1A	225 ft ³	6.37 m ³			
THC < 0.1 ppm							
Water < 1 ppm							
<i>A lot analysis is available on request. Please inquire for individual cylinder analysis.</i>							
<i>Caution: Not for human consumption.</i>							
Air Zero Enable THC<1.0	G2670605	1L	280 ft ³	7.93 m ³	Dual Stage Reg. Single Stage Reg. Cyl. Valve Wrench	Series 1250-590 Series 3530-590 TW-4*	296 313 430
<i>Guaranteed Specifications</i>	G2671093	1A	225 ft ³	6.37 m ³			
THC < 1.0 ppm							
Water < 3 ppm							
<i>A lot analysis is available on request. Please inquire for individual cylinder analysis.</i>							
<i>Caution: Not for human consumption.</i>							
Air, Zero Gas	G2001112	1L	280 ft ³	7.93 m ³	Dual Stage Reg. Single Stage Reg.	Series 1250-590 Series 3530-590	296 313
<i>Guaranteed Specifications</i>	G2001101	1A	225 ft ³	6.37 m ³			
THC < 1 ppm	G2001140	2	85 ft ³	2.41 m ³	LB Regulator Cyl. Valve Wrench	Series 3550-170 TW-4*, TW-5	314 430
Water < 6 ppm	G2001150	3	30 ft ³	0.85 m ³			
CO ₂ < 1 ppm	G2001175	LB	2 ft ³	56 L			
Oxygen 20-22 %	G2001444	1L x 12	3360 ft ³	95.16 m ³			
	G2001538	1L x 6	1680 ft ³	47.58 m ³			
	G2001639	1L x 4	1120 ft ³	31.72 m ³			
<i>A lot analysis is available on request. Please inquire for individual cylinder analysis.</i>							
<i>Caution: Not for human consumption.</i>							
<i>*Except LB – use TW-5</i>							
<i>If CO₂ 350-400 ppm is desired, add an "A" suffix at end of item number.</i>							
Air, Dry	G1105112	1L	280 ft ³	7.93 m ³	Dual Stage Reg. Single Stage Reg.	Series 1250-590 Series 3530-590	296 313
Water < 6 ppm	G1105101	1A	225 ft ³	6.37 m ³			
	G1105140	2	85 ft ³	2.41 m ³	LB Regulator Dual Stage	Series 3550-170 Series 81-590	314 293
	G1105150	3	30 ft ³	0.85 m ³			
	G1105175	LB	2 ft ³	56 L	Single Stage Cyl. Valve Wrench	Series 18-590 TW-4*, TW-5	292 430
<i>A Certificate of Conformance will be provided on request.</i>							
<i>Caution: Not for human consumption.</i>							
<i>*Except LB – use TW-5</i>							

⚠ WARNING: This product can expose you to chemicals including Sulfur Dioxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

⚠ WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Chrysalis® II ZERO Air Generator - See page 254 for complete product information.

www.mathesongas.com