



Ethylene

Equipment Recommendations	Model No.	Page No.
Single Stage Regulator	Series 3530-CGA*	313
Mini High Purity Regulator	Series 3550-180	314
Low Dead Volume Regulator (for Concentrations < 50ppm)	Series 3590-CGA*	315

Balance Gas	Concentration Range	Matheson Mixtures Grades						Cylinder Size	CGA*	Contents		Pressure		Approximate Ship Weight	
		MR	P	C+	C	U	G			US	Metric	psig	kPa	lb	kg
Air	100 ppb - 10 ppm			•	•			1R	590	145 ft ³	4.11 m ³	2,000	13,790	70	32
								2R	590	78 ft ³	2.21 m ³	2,000	13,790	48	22
								3R	590	29 ft ³	0.82 m ³	2,000	13,790	24	11
								6R	180	3.73 ft ³	106 L	1,800	12,411	2	1
	10 ppm - 1.35 %		•	•	•	•	•	1A	590	215 ft ³	6.09 m ³	2,000	13,790	133	60
								2	590	84 ft ³	2.38 m ³	2,000	13,790	74	34
								3	590	36 ft ³	1.01 m ³	2,000	13,790	39	18
								6R	180	3.73 ft ³	106 L	1,800	12,411	2	1
Helium	10 ppm - 15 %		•	•	•	•	•	1A	350	202 ft ³	5.72 m ³	2,000	13,790	133	60
								2	350	79 ft ³	2.24 m ³	2,000	13,790	74	34
								3	350	34 ft ³	0.96 m ³	2,000	13,790	39	18
								6R	180	3.51 ft ³	99 L	1,800	12,411	2	1
Nitrogen	100 ppb - 10 ppm			•	•			1R	350	143 ft ³	4.05 m ³	2,000	13,790	70	32
								2R	350	77 ft ³	2.18 m ³	2,000	13,790	48	22
								3R	350	29 ft ³	0.82 m ³	2,000	13,790	24	11
								6R	180	3.69 ft ³	104 L	1,800	12,411	2	1
	10 ppm - 15 %		•	•	•	•	•	1A	350	213 ft ³	6.03 m ³	2,000	13,790	133	60
								2	350	83 ft ³	2.35 m ³	2,000	13,790	74	34
								3	350	35 ft ³	0.99 m ³	2,000	13,790	39	18
								6R	180	3.69 ft ³	104 L	1,800	12,411	2	1

Contents and pressure may vary with concentration and ambient temperature.

*Unanalyzed mixture available >0.2% concentration

Key for Matheson Mixtures Grades:

MR = Matheson Reference Standard C+ = Certified Plus Standard U = Unanalyzed Standard
 P = Primary Standard C = Certified Standard G = Gravimetric Standard

For more information on Matheson Mixture Grades, please refer to pages 66 - 68.