



# Ethylene

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

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 <sup>3</sup>	4.11 m <sup>3</sup>	2,000	13,790	70	32
								2R	590	78 ft <sup>3</sup>	2.21 m <sup>3</sup>	2,000	13,790	48	22
								3R	590	29 ft <sup>3</sup>	0.82 m <sup>3</sup>	2,000	13,790	24	11
								6R	180	3.73 ft <sup>3</sup>	106 L	1,800	12,411	2	1
	10 ppm - 1.35 %		•	•	•	•	•	1A	590	215 ft <sup>3</sup>	6.09 m <sup>3</sup>	2,000	13,790	133	60
								2	590	84 ft <sup>3</sup>	2.38 m <sup>3</sup>	2,000	13,790	74	34
								3	590	36 ft <sup>3</sup>	1.01 m <sup>3</sup>	2,000	13,790	39	18
								6R	180	3.73 ft <sup>3</sup>	106 L	1,800	12,411	2	1
Helium	10 ppm - 15 %		•	•	•	•	•	1A	350	202 ft <sup>3</sup>	5.72 m <sup>3</sup>	2,000	13,790	133	60
								2	350	79 ft <sup>3</sup>	2.24 m <sup>3</sup>	2,000	13,790	74	34
								3	350	34 ft <sup>3</sup>	0.96 m <sup>3</sup>	2,000	13,790	39	18
								6R	180	3.51 ft <sup>3</sup>	99 L	1,800	12,411	2	1
Nitrogen	100 ppb - 10 ppm			•	•			1R	350	143 ft <sup>3</sup>	4.05 m <sup>3</sup>	2,000	13,790	70	32
								2R	350	77 ft <sup>3</sup>	2.18 m <sup>3</sup>	2,000	13,790	48	22
								3R	350	29 ft <sup>3</sup>	0.82 m <sup>3</sup>	2,000	13,790	24	11
								6R	180	3.69 ft <sup>3</sup>	104 L	1,800	12,411	2	1
	10 ppm - 15 %		•	•	•	•	•	1A	350	213 ft <sup>3</sup>	6.03 m <sup>3</sup>	2,000	13,790	133	60
								2	350	83 ft <sup>3</sup>	2.35 m <sup>3</sup>	2,000	13,790	74	34
								3	350	35 ft <sup>3</sup>	0.99 m <sup>3</sup>	2,000	13,790	39	18
								6R	180	3.69 ft <sup>3</sup>	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  
P = Primary Standard

C+ = Certified Plus Standard  
C = Certified Standard

U = Unanalyzed Standard  
G = Gravimetric Standard