

Air

Synonyms: Synthetic Air, Blended Air

Physical Constants of Gas

Molecular Weight 28.96
 Specific Volume 13.3 CF/lb. (0.82 m³/kg)
 Boiling Point -317.8°F (-194.3°C) 1 atm
 Gas Density 70°F 1 atm 1.202 kg/m³

Cylinder Data

CGA Valve Outlet 590
 LB CGA Valve Outlet 110, 170

Shipping Data

Shipping Class 70
 DOT/TC Name Air, Compressed
 DOT Class 2.2 (Nonflammable Gas)
 TC Class 2.2 (Nontoxic, Nonflammable Gas)
 WHMIS Class A
 DOT Label Nonflammable Gas
 CAS Registry No. 132259-10-0
 UN No./ATA No. UN1002

Safety Information

May accelerate combustion.
 Not for human consumption.

Specifications									Recommended Equipment	
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			CF	m ³	psig	bar	lbs.	kg		
ALPHAGAZ 2 CO < 1 ppm CO ₂ < 0.1 ppm H ₂ O < 0.5 ppm NO _x < 50 ppb O ₂ 20–21% SO _x < 50 ppb THC < 0.05 ppm		49	283	8	2640	182	166	75	Two-Stage Regulator Q1-318B-590 Single-Stage Regulator Q1-3300B-590	270
		44	238	7	2265	156	150	68		
ALPHAGAZ 1 H ₂ O < 3 ppm O ₂ 20–22% THC < 0.1 ppm		49	310	9	2640	182	166	75	Two-Stage Regulator Q1-211B-590 Q1-209A-590 Q1-14C-590 Single-Stage Regulator Q1-205B-590	269 268 275 269
		49 x 16	4528	128	2640	182	2916	1322		
		44	238	7	2265	156	150	68		
ALPHAGAZ Auto UZAM CO < 0.1 ppm CO ₂ 315–385 ppm** H ₂ O < 5 ppm O ₂ 20–21% THC < 0.05 ppm		49	310	9	2640	182	166	75	Two-Stage Regulator Q1-318B-590 Q1-14C-590	270 275
		44	238	7	2265	156	150	68		
Acid Rain CEM Zero† CO < 0.5 ppm CO ₂ < 1 ppm H ₂ O < 2 ppm NO _x < 0.1 ppm O ₂ 20–21% SO _x < 0.1 ppm THC < 0.1 ppm		30AL	144	4	2000	138	80	36	Two-Stage Regulator Q1-318B-590 Q1-14C-590	270 275
		30AL	144	4	2000	138	80	36		

* Not available in Canada.

** Available without CO₂ on request.

† Meets Federal Register specifications Title 40CFR 72.2.

Most SCOTT™ gas handling and distribution equipment is available for same-day shipping.

Air continued

Specifications									Recommended Equipment	
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			CF	m ³	psig	bar	lbs.	kg		
VOC-FREE† CO < 0.1 ppm CO ₂ < 0.3 ppm H ₂ O < 2 ppm O ₂ 20–21% THC < 0.01 ppm		30AL	144	4	2000	138	80	36	Two-Stage Regulator Q1-215A-590	271
									Q1-14C-590	275
									Single-Stage Regulator Q1-19VOC-590	277
ALPHAGAZ Auto Zero†† CO < 1 ppm CO ₂ < 1 ppm NO _x < 0.1 ppm O ₂ 20–21% THC < 1 ppm		49	283	8	2400	166	182	83	Two-Stage Regulator Q1-211B-590	269
		44	238	7	2265	156	150	68		
		30AL	144	4	2000	138	80	36	Q1-14C-590	275
ALPHAGAZ Auto Part 1065* CO < 1 ppm CO ₂ < 10 ppm NO _x < 0.02 ppm O ₂ 20.5–21.5% THC < 0.05 ppm		49	283	8	2400	166	182	83	Two-Stage Regulator Q1-318B-590	270
		44	238	7	2265	156	150	68		
		30AL	144	4	2000	138	80	36		
IM240 CO < 0.5 ppm CO ₂ < 1 ppm H ₂ O < 1 ppm NO _x < 0.1 ppm O ₂ 18–21% THC < 0.1 ppm		30AL	144	4	2000	138	80	36	Two-Stage Regulator Q1-318B-590	270
		16AL	78	2	2000	138	34	15		
Bar 97 Zero CO < 1 ppm CO ₂ < 400 ppm NO _x < 1 ppm O ₂ 20.9% THC < 1 ppm		30AL	144	4	2000	138	80	36	Two-Stage Regulator Q1-318B-590	270
		SIII**	8	0.2	260	18	6	3		

* Meets Federal Register specifications for Title 40, Part 1065.750.

** SIII or SCOTTY™ III = SCOTTY 221L.

† Typical purity; individually analyzed for customer selected VOCs.

†† Meets Federal Register specifications for Title 40, Part 86: 114.79, 114.94, 214.94 and 514.78.