

Air Cannon Performance Data for High Temperature G400 Models

Air Blaster Model	Air Pressure	psi	70	80	90	100
		bar	4.8	5.5	6.2	6.9
4" Discharge G400-40-50 Tank Volume is 1.7 ft ³ (49 l)	Free Air Volume	ft ³	9.8	11.0	12.0	13.2
		liters	277	311	340	374
	Fill Time	sec	15	15	15	15
	Shot Time	sec	.08	.08	.09	.09
	Force	lbf	698	851	997	1072
		kN	3.13	3.81	4.478	4.80
Efficiency	lb/ft ³	71	77	83	81	
4" Discharge G400-40-100 Tank Volume is 3.5 ft ³ (99 l)	Free Air Volume	ft ³	20.0	22.4	24.8	27.0
		liters	566	634	702	765
	Fill Time	sec	25	35	35	35
	Shot Time	sec	.12	.12	.13	.15
	Force	lbf	884	1035	1190	1302
		kN	3.96	4.64	5.33	5.84
Efficiency	lb/ft ³	44	46	48	48	
4" Discharge G400-40-150 Tank Volume is 5.0 ft ³ (142 l)	Free Air Volume	ft ³	28.8	32.2	35.6	39.0
		liters	816	912	1008	1104
	Fill Time	sec	35	40	40	40
	Shot Time	sec	.16	.16	.16	.20
	Force	lbf	1070	1220	1383	1532
		kN	4.80	5.47	6.20	6.87
Efficiency	lb/ft ³	37	38	39	39	
6" Discharge G400-60-300 Tank Volume is 10.6 ft ³ (299 l)	Free Air Volume	ft ³	61.0	68.3	75.5	82.7
		liters	1727	1934	2138	2342
	Fill Time	sec	90	90	90	105
	Shot Time	sec	.22	.22	.22	.24
	Force	lbf	1735	2000	2320	2525
		kN	7.78	8.96	10.40	11.32
Efficiency	lb/ft ³	28	29	31	31	
6" Discharge G400-60-650 Tank Volume is 22.8 ft ³ (645 l)	Free Air Volume	ft ³	131.3	147.0	162.4	178.0
		liters	3718	4162	4599	5040
	Fill Time	sec	210	210	210	210
	Shot Time	sec	.42	.42	.46	.46
	Force	lbf	2065	2380	2761	3005
		kN	9.25	10.67	12.37	13.47
Efficiency	lb/ft ³	16	16	17	17	

FILL TIME = Time to fill tank within +/- 2 psi of regulated pressure using 3/8" x 10' fill line. Fill time may vary depending on fill line size and length, compressor characteristics, and environmental conditions.

FORCE measurements were made using an 8" diameter, 1" thick piston, located 4" from the Air Blaster discharge mount flange, to transfer the blast impulse to a dynamic sensor. A 1" solenoid valve, without muffler, mounted directly to the air inlet port was used to fire the GW4 and GW6 model Air Blasters. A 3/4" solenoid was used for the GW2.5 model.

FILL TIME, SHOT TIME, & FORCE for the GW6-30-60 were not measured. The data presented is an estimation of performance for this model. The force output is too powerful for the dynamic sensor.