

Air Cannon Performance Data for GW & GWE Models

Air Blaster Model	Air Pressure	psi	70	80	90	100
		bar	4.8	5.5	6.2	6.9
2.5 Discharge GW2.5-8-24 Tank Volume is 0.7 ft ³ (19 l)	Free Air Volume	ft ³	4.0	4.5	5.0	5.5
		liters	113	127	141	155
	Fill Time	sec	<10	<10	<10	<10
	Shot Time	sec	.08	.09	.09	.09
	Force	lbf	244	275	288	330
kN		1.09	1.23	1.29	1.48	
Efficiency	lb/ft ³	61	61	58	60	
4" Discharge GW4-12-28 GWE4-12-28 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	.08	.08
	Force	lbf	877	1021	1200	1300
		kN	3.93	4.58	5.38	5.83
Efficiency	lb/ft ³	90	93	100	99	
4" Discharge GW4-16-34 GWE4-16-34 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	.13	.15	.15	.15
	Force	lbf	976	1185	1342	1467
		kN	4.34	5.31	6.02	6.58
Efficiency	lb/ft ³	50	53	54	54	
4" Discharge GW4-20-30 GWE4-20-30 Tank Volume is 5.0 ft ³ (142 l)	Free Air Volume	ft ³	28.8	32.2	35.6	39.0
		liters	815	912	1008	1104
	Fill Time	sec	35	40	40	40
	Shot Time	sec	.18	.20	.21	.22
	Force	lbf	1075	1350	1485	1635
		kN	4.82	6.05	6.66	7.33
Efficiency	lb/ft ³	37	42	42	42	
6" Discharge GW6-24-48 GWE6-24-48 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	.20	.21	.22	.23
	Force	lbf	2681	2812	3230	3333
		kN	12.02	12.60	14.48	14.94
Efficiency	lb/ft ³	44	41	43	40	
6" Discharge GW6-30-60 GWE6-30-60 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	.38	.40	.42	.44
	Force	lbf	3190	3345	3840	3965
		kN	14.30	14.99	17.21	17.77
Efficiency	lb/ft ³	24	23	24	22	

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.