

AIR CONSUMPTION & MEDIA DELIVERED

Figures shown are for general reference only; many variables affect actual consumption. Rely on actual experience for job decision-making.

Nozzle Model	Pressure System PSI					Gun Model	Suction System PSI					Air, Media & Power Requirements
	50	60	70	80	90		Air Jet Orifice	50	60	70	80	
No. 2 1/8"	11 .7 2.5	13 .8 3	15 .9 3.5	17 1 4	18.5 1.1 4.5	No. 3 3/32"	8.2 0.4 2.25	9.5 0.4 2.5	10.8 0.5 2.75	12.0 0.5 3	13.3 0.6 3.5	Air (cfm) Media (cfh) Compressor (hp)
No. 3 3/16"	26 1.5 6	30 1.8 7	33 2.0 8	38 2.2 9	41 2.4 10	No. 4 1/8"	15 0.7 3.75	17 0.8 4.25	19 0.9 4.75	21 1.0 5.25	24 1.1 6	Air (cfm) Media (cfh) Compressor (hp)
No. 4 1/4"	47 2.7 11	54 3.1 12	61 3.5 14	68 4.1 16	74 4.5 17	No. 5 5/32"	23 1.2 5.75	26 1.3 6.5	30 1.5 7.5	33 1.7 8.25	37 1.9 9.25	Air (cfm) Media (cfh) Compressor (hp)
No. 5 5/16"	77 4.6 18	89 5.3 20	101 6.0 23	113 6.7 26	126 7.4 28	No. 6 3/16"	33 1.7 8.25	38 1.9 9.5	43 2.2 10.75	48 2.4 12.0	53 2.6 13.25	Air (cfm) Media (cfh) Compressor (hp)
No. 6 3/8"	108 6.7 24	126 7.6 28	143 8.6 32	161 9.6 36	173 10.5 39	No. 7 7/32"	45 2.2 11.25	51 2.6 12.75	59 2.9 14.75	66 3.3 16.5	72 3.6 18.0	Air (cfm) Media (cfh) Compressor (hp)

Pressure System

Ratio: hose ID to nozzle orifice ID should be between 3:1 and 4:1.

Suction System

Ratio: nozzle orifice ID to air jet orifice ID should be 2:1.

Distributed by:

Suction System Media Per Minute Calculation		
To calculate media delivered per minute	Example A	Example B
	No. 6 Nozzle/ steel shot at 80 psi	No. 6 Nozzle/ glass bead at 80 psi
Determine pounds per cu ft of media	Steel shot = 250 lbs/cubic foot	Glass bead = 90 lbs/cubic foot
Determine cu ft of media delivered by given nozzle size	No.6 Nozzle delivers 2.4 cubic feet per hour @80 psi	No.6 Nozzle delivers 2.4 cubic feet per hour @80 psi
Multiply pounds per cu ft of media by cu ft of media delivered by the nozzle	$250 \times 2.4 = 600$	$90 \times 2.4 = 216$
Divide by 60	$600/60 = 10.0$ lbs per minute	$216/60 = 3.6$ lbs per minute

**ZERO Blast Cabinets • Tumble Blast Systems • Automation
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