

# Zero Blast Cabinets

## Suction System Media Per Minute Calculation

To calculate media delivered per minute	Example A	Example B
	#6 Nozzle/Steel Shot at 80 psi	#6 Nozzle/glass bead at 80 psi
Determine lbs per cuft of media	Steel Shot = 250 lbs/cuft	Glass bead = 90 lbs/cuft
Determine cuft of media delivered by given nozzle size	#6 nozzle delivers 2.4 cuft per hour at 80 psi	#6 nozzle delivers 2.4 cuft per hour at 80 psi
Multiply lbs per cuft of media by cuft	$250 \times 2.4 = 600$	$90 \times 2.4 = 216$
Divide by 60	$600/60 = 10$ lbs per minute	$216/60 = 3.6$ lbs per minute

## Air Consumption and Media Delivered

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

### Pressure System

Ratio – House ID to nozzle orifice ID should be between 3:1 and 4:1

### Suction System

Ratio – Nozzle orifice ID to air jet orifice should be 2:1