



Air Consumption

Use the chart below to approximate the amount of air your blast machine will be using during operation. This may also be used for blow off nozzles that may operate during a blasting cycle too. Remember that in a pressure blast system, your nozzle is seeing continuous wear so always make sure to estimate your air consumption with a worn nozzle in mind. SBS recommends replacing any nozzle when it has worn a full 1/16" in diameter larger than new due to inefficiencies.

For example: A 1/4" pressure blast nozzle worn to 5/16" running at 80 PSI will consume approximately 106 CFM of compressed air.

Air Consumption in Cubic Feet per Minute (CFM)*

Pressure Nozzle or Suction Air Jet Diameter	Blasting Pressure, Pounds per Square Inch (PSI)					
	50	60	70	80	90	100
1/8" New	12	14	15	17	19	21
1/8" Worn to 3/16"	16	30	34	38	42	46
3/16" New	16	30	34	38	42	46
3/16" Worn to 1/4"	47	54	62	69	76	83
1/4" New	47	54	62	69	76	83
1/4" Worn to 5/16"	73	84	95	106	117	129
5/16" New	73	84	95	106	117	129
5/16" Worn to 3/8"	106	122	139	155	171	187
3/8" New	106	122	139	155	171	87
3/8" Worn to 7/16"	142	165	187	210	232	254
3/8" Worn to 1/2"	188	217	246	274	303	332
7/16" New	142	165	187	210	232	254
7/16" Worn to 1/2"	188	217	246	274	303	332
7/16" Worn to 9/16"	232	269	306	344	381	418
1/2" New	188	217	246	247	303	332
1/2" Worn to 9/16"	232	269	306	344	381	418
1/2" Worn to 5/8"	293	338	383	430	474	520
5/8" New	293	338	383	430	474	520
5/8" Worn to 11/16"	350	406	462	518	574	630
5/8" Worn to 3/4"	423	487	552	617	682	746
3/4" New	423	487	552	617	682	746
3/4" Worn to 13/16"	491	568	646	724	802	880
3/4" Worn to 7/8"	575	663	750	840	930	1020

*Surface Blasting Systems, LLC believes the above values to be true and accurate to the best of our knowledge. However, we do not guarantee the CFM values given above due to the many factors that affect air consumption requirements. SBS recommends the above values be considered to be a minimum CFM requirement.