

CFM vs PSI for Nozzles

- PSI = pounds/square inch
- CFM = cubic feet/minute

Gauge PSI	CFM Free Air Flow @ Nozzle Diameter (inches)							
	1/64	1/32	3/64	1/16	3/32	1/8	3/16	1/4
1	.03"	.11"	.2"	.4"	1.0"	1.7"	3.9"	6.8"
5	.06"	.24"	.5"	1.0"	2.2"	3.9"	8.7"	15.4"
10	.08"	.34"	.8"	1.4"	3.1"	5.4"	12.3"	21.8"
15	.10"	.42"	.9"	1.6"	3.7"	6.6"	15.0"	26.7"
20	.12"	.48"	1.1"	1.9"	4.2"	7.7"	17.1"	30.8"
25	.13"	.54"	1.2"	2.2"	4.7"	8.6"	19.4"	34.5"
30	.16"	.63"	1.4"	2.5"	5.6"	10.0"	22.5"	40.0"
40	.19"	.77"	1.7"	3.1"	6.8"	12.3"	27.5"	49.1"
50	.22"	.91"	2.0"	3.6"	8.2"	14.5"	32.8"	58.2"
60	.26"	1.05"	2.3"	4.2"	9.4"	16.8"	37.5"	67.0"
70	.29"	1.19"	2.7"	4.8"	10.7"	19.0"	43.0"	76.0"
80	.33"	1.33"	3.0"	5.3"	11.9"	21.2"	47.5"	85.0"
90	.36"	1.47"	3.3"	5.9"	13.1"	23.5"	52.5"	94.0"
100	.40"	1.61"	3.7"	6.4"	14.5"	25.8"	58.3"	103.0"
110	.43"	1.76"	3.9"	7.0"	15.7"	28.0"	63.0"	112.0"
120	.47"	1.90"	4.3"	7.6"	17.0"	30.2"	68.0"	121.0"
130	.50"	2.04"	4.6"	8.1"	18.2"	32.4"	73.0"	130.0"
140	.54"	2.17"	4.9"	8.7"	19.5"	34.5"	78.0"	138.0"
150	.57"	2.33"	5.2"	9.2"	20.7"	36.7"	83.0"	147.0"
175	.66"	2.65"	5.9"	10.6"	23.8"	42.1"	95.0"	169.0"
200	.76"	3.07"	6.9"	12.2"	27.5"	48.7"	110.0"	195.0"

Air Receiver Capacities

Tank Size (inches)	Tank Size (gallons)	Gauge Pressure on Tank (PSI)			
		0	100	150	200
		Cubic Feet Tank Capacity			
12 x 24	10	1.3	11	15	19
14 x 36	20	2.7	21	30	39
16 x 36	30	4.0	31	45	59
20 x 48	60	8.0	62	90	117
20 x 63	80	10.7	83	120	156
24 x 68	120	16.0	125	180	234
30 x 84	240	32.0	250	360	467

If your tank is not listed in the table to the left, use the following formula to calculate the tank size (gallons) and then estimate the cubic feet tank capacity at a given pressure from the table above.

$$\text{Tank Gallons} = \frac{\text{Tank Height} \times (\text{Tank Radius})^2}{73.53}$$

Height and radius are in inches