

**Air Consumption Chart for Industrial Type Tools, Cubic Feet Per Minute Required to Operate Various Pneumatic Equipment at Pressure Range 70-90 psig**

Miscellaneous Portable Tools	Consumption (cfm)			Miscellaneous Portable Tools	Consumption (cfm)		
	15% Use Factor	25% Use Factor	35% Use Factor		15% Use Factor	25% Use Factor	35% Use Factor
Drill, 1/16" to 3/8"	4.0	6.0	9.0	Burring Tool, Small	2.0	4.0	5.0
Drill, 3/8" to 5/8"	5.0	9.0	12.0	Burring Tool, Large	4.0	6.0	8.0
Screwdriver #2 to #6 Screw	2.0	3.0	4.0	Rammers, Small	4.0	6.0	9.0
Screwdriver #5 to 5/15" Screw	4.0	6.0	8.0	Rammers, Medium	5.0	9.0	12.0
Tapper, to 3/8"	4.0	6.0	8.0	Rammers, Large	6.0	10.0	14.0
Nutsetters, to 3/8"	4.0	6.0	8.0	Backfill Tamper	4.0	6.0	9.0
Nutsetters, to 9/16"	8.0	13.0	18.0	Compression Riveter		.2 Cubic Feet per Cycle	
Nutsetters, to 3/4"	9.0	15.0	21.0	Air Motor 1 HP	5.0	9.0	12.0
Impact Wrench, 1/4"	2.0	4.0	5.0	Air Motor 2 HP	11.0	18.0	25.0
Impact Wrench, 3/8"	3.0	5.0	7.0	Air Motor 3 HP	14.0	24.0	33.0
Impact Wrench, 1/2"	5.0	8.0	11.0	Air Motor Hoist, 1000#		1.0 Cubic Foot of Lift	
Impact Wrench, 5/8"	5.0	8.0	11.0	Air Motor Hoist, 2000#		1.0 Cubic Foot of Lift	
Impact Wrench, 3/4"	5.0	9.0	12.0	Paint Spray Gun (Production)	3.0	5.0	7.0
Impact Wrench, 1"	7.0	11.0	16.0	<b>HAMMERS</b>			
Impact Wrench, 1 1/4"	8.0	14.0	19.0	Scaling Hammer	2.0	3.0	4.0
Die Grinder, Small	2.0	4.0	5.0	Chipping Hammer	5.0	8.0	11.0
Die Grinder, Medium	4.0	6.0	8.0	Riveting Hammer (Heavy)	5.0	8.0	11.0
Horizontal Grinder, 2"	5.0	8.0	11.0	Riveting Hammer (Light)	2.0	4.0	5.0
Horizontal Grinder, 4"	9.0	15.0	21.0	<b>SAWS</b>			
Horizontal Grinder, 6"	11.0	18.0	25.0	Circular, 8"	7.0	11.0	16.0
Horizontal Grinder, 8"	12.0	20.0	28.0	Circular, 12"	10.0	16.0	24.0
Vertical Grinders & Sanders 5" Pad	5.0	9.0	12.0	Chainsaw, Lightweight	4.0	7.0	10.0
Vertical Grinders & Sanders 7" Pad	11.0	18.0	25.0	Chainsaw, Heavy Duty	13.0	22.0	31.0
Vertical Grinders & Sanders 9" Pad	12.0	20.0	28.0				

Always check with tool manufacturers for actual air consumption of tools being used. The above is based on averages and should not be considered accurate for any particular make of tool. Above tools are rated based upon typical "on-load" performance characteristics. For other use factors adjust the cfm air consumption on a proportional basis. (Example: 30 seconds on; 30 seconds off use 50% as use factor).

**Air Consumption Chart for Automotive Service Shops, Cubic Feet Per Minute Required to Operate Various Pneumatic Equipment, for average service shop usage factor.**

Equipment Air Pressure Range in psi	Portable Tools	Compressor cfm Required Per Unit	Equipment Air Pressure Range in psi	Portable Tools	Compressor cfm Required Per Unit
70-100	**Air Filter Cleaner	3.0	<b>HAMMERS</b>		
70-100	**Body Polisher	20.0	90-100	**Air Hammer	4.0
70-100	**Body Sander (orbital)	10.0	90-100	Tire Hammer	12.0
70-100	Brake Tester	4.0	125-150	Bead Breaker	12.0
70-100	**Carbon Remover	3.0	90-100	Spring Oiler	4.0
90-100	Dusting Gun (Blow Gun)	2.5	<b>SPRAY GUNS</b>		
70-100	Panel Cutter	4.0	90-100	**Engine Cleaner	5.0
70-90	**Drill, 1/16" to 3/8"	4.0	90-100	**Paint Spray Gun (production)	8.0
70-90	**Impact Wrench 3/8"	3.0	90-100	**Paint Spray Gun (touch-up)	4.0
70-90	**Impact Wrench 1/2"	4.0	90-100	**Paint Spray Gun (undercoating)	19.0
70-90	**Impact Wrench 5/8"	5.0	<b>OTHER EQUIPMENT</b>		
70-90	**Impact Wrench 3/4"	8.0	120-150	**Grease Gun	3.0
70-90	**Impact Wrench 1"	12.0	145-175	Car Lift * (air powered hydraulic)	6.0
70-90	**Die Grinder	5.0	125-150	Floor Jacks (air powered hydraulic)	6.0
90-100	**Vertical Disc Sanders	20.0	125-150	Pneumatic Garage Door	3.0
90-100	**Filing & Sawing Machine, (Small)	3.0	90-100	Radiator Tester	1.0
90-100	**Filing & Sawing Machine, (Large)	5.0	90-100	Spark Plug Cleaner	5.0
90-100	**Burring Tool	5.0	90-100	Spark Plug Tester	0.5
<b>TIRE TOOLS</b>			70-100	Transmission & Differential Flush	3.0
125-150	Rim Stripper	6.0	70-100	**Fender Hammer	9.0
125-150	Tire Changer	1.0	70-100	**Car Washer	9.0
125-150	Tire Inflation Line	2.0	70-100	**6" Medium Duty Sander	40.0
125-150	Tire Spreader	1.0			
125-150	**Vacuum Cleaner	7.0			

\* This is for 8,000 lbs. Capacity. Add .65 cfm for each 1,000 lbs. Capacity over 8,000 lbs.

\*\* These devices are rated based upon typical "on-load" performance characteristics.

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