

AIR ESTIMATING GUIDE

Always use free air (CFM) and pressure (PSI) specifications from the nameplate on the device or from the manufacturer. Free air figures (in the table below) are averages and may differ by specific brand.

INDUSTRIAL EQUIPMENT CFM REQUIREMENTS BASED ON NORMAL USAGE

Miscellaneous portable tools at 70 to 90-PSI

TOOLS	CFM
Backfill tamper	6.3
Burring tool, small	3.8
Burring tool, large	6.0
Chipping hammer	7.5
Circular saw, 8"	11.3
Circular saw, 12"	16.3
Compression riveter	0.2 cu. ft. per cycle
Die grinder, small	3.8
Die grinder, medium	6.0
Drill, 1/8" to 3/8"	6.3
Drill, 3/8" to 5/16"	8.8
Heavy-duty chain saw	21.8
Horizontal grinder, 2"	5.0
Horizontal grinder, 4"	15.0
Horizontal grinder, 6"	15.0
Horizontal grinder, 8"	20.0
Impact wrench, 1/4"	3.8
Impact wrench, 3/8"	5.0
Impact wrench, 1/2"	7.5
Impact wrench, 3/4"	8.8
Impact wrench, 1 1/4"	13.8
Lightweight chain saw	7.0
Nailer or stapler	5.0 to 8.0
Nutsetters, to 3/8"	6.0
Nutsetters, to 3/4"	7.5
Paint spray gun	5.0
Rammers, small	3.3
Rammers, medium	8.5
Rammers, large	10.0
Riveter	6.0
Riveting hammer	7.5
Scaling hammer	3.0
Screwdriver, #2 to #6 screw	3.0
Screwdriver, #6 to 5/16" screw	6.0
Tapper, to 3/8"	5.0
Vertical grinder and sander, 5" pad	8.8
Vertical grinder and sander, 7" pad	15.0
Vertical grinder and sander, 9" pad	17.5

AUTOMOTIVE EQUIPMENT CFM REQUIREMENTS BASED ON TOOLS BEING USED 25% OF THE TIME

TOOLS	PSI RANGE	CFM
Air filter cleaner	70 to 100	3.0
Air hammer	90 to 100	4.0
Bead breaker	125 to 150	12.0
Body polisher	70 to 100	2.0
Body sander, orbital	70 to 100	5.0
Brake tester	70 to 100	3.5
Burring tool	90 to 100	5.0
Carbon remover	70 to 100	3.0
Die grinder	70 to 90	5.0
Drill, 1/16" to 3/8"	70 to 90	4.0
Dusting blow gun	90 to 100	2.5
Fender hammer	70 to 100	9.0
Filing/sawing machine, small	90 to 100	3.0
Filing/sawing machine, large	90 to 100	5.0
Grease gun	120 to 150	3.0
Hydraulic floor jack	125 to 150	6.0
Hydraulic lift	145 to 175	6.0
Impact wrench, 3/8" square drive	70 to 90	2.0
Impact wrench, 1/2" square drive	70 to 90	3.5
Impact wrench, 3/4" square drive	70 to 90	7.5
Impact wrench, 1" square drive	70 to 90	10.0
Medium-duty sander	70 to 100	40.0
Pneumatic garage door	120 to 150	3.0
Production paint spray gun	90 to 100	8.5
Vertical disc sander	90 to 100	10.0
Radiator tester	90 to 100	1.0
Spray gun engine cleaner	90 to 100	5.0
Spring oiler	90 to 100	4.0
Tire changer	125 to 150	5.5
Tire hammer	90 to 100	12.0
Tire inflation line	125 to 150	1.5
Tire rim stripper	125 to 150	6.0
Tire spreader	125 to 150	1.0
Touch-up paint spray gun	90 to 100	3.5
Transmission/differential flusher	70 to 100	3.0
Undercoat paint spray gun	90 to 100	19.0