

# COMPRESSOR PACKAGE QUICK QUOTE REFERENCE SHEET

This sheet is meant only as a guide. Site visits and evaluations are still recommended to ensure the proper compressor package is quoted for the application.

## Step 1 Count Tools

Count the total number of tools in use at one time and we'll calculate the cfm required to operate

Tools	CFM	Tools	CFM	Tools	CFM
___ x 3/8 Impact Wrench(s) =	___	___ x 6 inch Orbital Sander(s) =	___	Sandblasting Nozzles	
___ x 1/2 Impact Wrench(s) =	___	___ x 8 inch Orbital Sander(s) =	___	___ x 3/32 inch @ 90PSI =	___
___ x 3/4 Impact Wrench(s) =	___	___ x 7 inch Air Sander(s) =	___	___ x 1/8 inch @ 90PSI =	___
___ x 1 Impact Wrench(s) =	___	___ x 6 inch DA Sander(s) =	___	___ x 5/32 inch @ 90PSI =	___
___ x 1/4 Air Ratchet(s) =	___	___ x 7 inch DA Sander(s) =	___	___ x 3/16 inch @ 90PSI =	___
___ x 3/8 Air Ratchet(s) =	___	___ x Nail Gun(s) =	___	___ x 1/4 inch @ 90PSI =	___
___ x 1/2 Air Ratchet(s) =	___	___ x Staple Gun(s) =	___	___ x 5/16 inch @ 90PSI =	___
___ x 1/4 Die Grinder(s) =	___	___ x 1/4 Inch Nozzle	___	___ x 3/8 inch @ 90PSI =	___
___ x High Speed Grinder(s) =	___	___ Blow Gun(s) =	___	___ x 7/16 inch @ 90PSI =	___
___ x 3 inch Cut Off tool(s) =	___	___ x 1/4 Air Drill(s) =	___	___ x 1/2 inch @ 90PSI =	___
___ x HVLP Paint Spray Gun(s) =	___	___ x 3/8 Air Drill(s) =	___		
___ x 5 inch Orbital Sander(s) =	___	___ x 1/2 Air Drill(s) =	___	Total tool CFM Demand =	<div></div>

Other Equipment  
Count ALL other equipment that uses air.

Other Equipment CFM = \_\_\_

Total CFM Demand of  
Equipment and Tools =

## Or Use the Technician Count Method

When using the technician only method it is critical to make sure and count ALL technicians that may be using tools at any one time to get a proper CFM total.

Type of tools used	Number of Techs	CFM
Impact Wrenches, Air ratchets, Staple/Nail Guns	x	=
Grinding/Sanding/Coating Applications	x	=
Total Technician CFM usage	x	=

Total Air Demand  
for Application

## Step 2 Choose Your Equipment

Reciprocating Compressor			Oil free Reciprocating Compressor			Rotary Screw Compressor		
The maximum operating duty cycle on a reciprocating compressor is 70% optimal is 50%			The maximum operating duty cycle on a oil free reciprocating compressor is 50% optimal is 30%			The maximum operating duty cycle on a rotary screw compressor is 100%, optimal is 70%		
50% Duty Cycle	60% Duty Cycle	70% Duty Cycle	30% Duty Cycle	40% Duty Cycle	50% Duty Cycle	60% Duty Cycle	70% Duty Cycle	80% Duty Cycle

Average Compressor CFM Production per horse power				
Reciprocating	CFM@175PSI	Rotary Screw	CFM@150PSI	CFM@125PSI
5HP	18	5HP	16	18
7.5HP	24	7.5HP	26	28
10HP	35	10HP	38	40
15HP	50	15HP	54	60
20HP	80	20HP	78	85
25HP	95	25HP	102	108
		30HP	125	130
		40HP	155	160
		50HP	185	200
		60HP	210	235

Quick Metric Conversions	
Amount	CFM
Liters per minute to CFM	=
Cubic meters per minute to CFM	=
Amount	PSI
Bar to PSI	=

**KNIGHT COMPRESSORS**  
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Dependable, hard-working,  
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