

# Build Your Own Electric Reciprocating Compressor

## Compressor Phase

1

3

Note: Compressors 15hp and larger are only available in 3 phase

## Horse Power

5 (18CFM@175PSI)                      7.5 (24CFM@175PSI)

10 (35CFM@175PSI)                      15 (54CFM@175PSI)

20 (78CFM@175PSI)                      25 (90CFM@175PSI)

## Compressor Voltage

200    208-230

460-480    575

Note: Voltages 207 and below require 200 volt dedicated drive motors (Voltage is critical for a proper compressor quote) 1 phase compressors are only available in 200 volt and 208-230 volt

## Tank Configurations

Vertical

Horizontal

Note: 30 and 240 Gallon Tanks are only available in Horizontal configuration

## Tank Size (Gallons)

30    80

120    240

## Air filtration options

Particulate filtration

Coalescing Filtration

Refrigerated air dryer

## Additional Options

TEFC drive motor

NEMA 4 controls

Class 1 Div 2 Drive Motor

Class 1 Div 2 Controls

Hour meter

## Series Desired

Basic

Elite

NOTICE: ALWAYS CONSULT YOUR FACTORY AUTHORIZED SALES/ SERVICE REPRESENTATIVE BEFORE MAKING A FINAL COMPRESSOR SELECTION.

Name \_\_\_\_\_

Company \_\_\_\_\_

Email \_\_\_\_\_

Phone \_\_\_\_\_

Email this sheet to indgoldair@yahoo.com or fax to 417-206-6336

## How To Size Reciprocating Compressors.

### Body Shops.

To properly size a body shop application, first find the total number of workers in the shop. Second multiply that number by 8. Which is the average amount of CFM used by any one person through out the day. This makes sure that the compressor stays within its desired 50% duty cycle. (or any shop that does a lot of sanding and grinding)

### Example:

Total Number of workers-7 7 People x 8 CFM=56 CFM

For this shop to operate within the desired 50% duty cycle you would need 56CFM of air delivered.

### Mechanic Shops.

To properly size a mechanic shop first find the total number of workers in the shop. Second take that number and multiply it by 5. The average amount of CFM used by a mechanic through out the day. This makes sure that the compressor stays within its desired 50% duty cycle.

### Example:

Total Number of workers-6 6 People x 5 CFM =30

For this shop to operate within the desired 50% duty cycle you would need 30CFM air delivered.

### Total CFM Usage.

To properly size a compressor based on total tool consumption you would need the manufacture spec CFM of all the tools that the shop uses on a daily basis. First add all of these totals up and then multiply the total by 2. This makes sure that the compressor stays within the desired 50% duty cycle.

### Example:

DA Sander-10 CFM Air Impact-6 CFM

HVLP Paint Gun-15 CFM Total 31 CFM

31x2=62 CFM

For this compressor to operate within the desired 50% duty cycle you would need 62 CFM of air delivered.

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