

# CycloBlower® Industrial Series

Positive Displacement Blowers  
& Vacuum Pumps



GARDNER  
DENVER

1859

2009

SESQUICENTENNIAL



Experience Proven Results™



## 50 Years of Proven Results

The Gardner Denver CycloBlower Industrial Series offers significant advantages:

- Efficiency
- Quality
- Durability
- The CycloBlower Industrial Series delivers:
  - Pressure to 20 psig
  - Dry Vacuum to 17" Hg
  - Wet Vacuum to 24" Hg
  - Airflow to 6700 cfm

## Efficient, Shock-Free Compression

- Helical screw rotors generate a balanced compression cycle
- Providing a smooth and steady discharge, eliminating the sudden release of trapped pockets of air into the line
- Contoured inlet and discharge ports minimize turbulence



Model 7CDL14P

## Dependable Quality

- Superior and consistent quality can be found in every CycloBlower as a result of:
  - Continual investment in the training of world-class manufacturing personnel
  - Quality inspections throughout the entire manufacturing process
- Compact design utilizing optimum performance materials
- Reduced vibrations result in longer service of critical blower components

## High Capacity

- Industry unique rotor profile and accurately maintained tolerances allow the CycloBlower to be operated at high speeds for increased capacity

## Clean Air/Gas Delivery

- Contact-less rotors removes the need for lubrication within the compression chamber
- Outboard position of rotor bearings allows atmospheric venting between the compression chamber and the bearings and gears
- Prevents gear and bearing lubricants from contaminating the compression chamber for clean air/gas delivery

## Installation Flexibility

- Units can be powered by various types of drives including electric motors, constant or variable, gasoline and diesel engines, or steam turbines
- May be connected through a variable frequency drive (VFD), V-belt, or direct drive

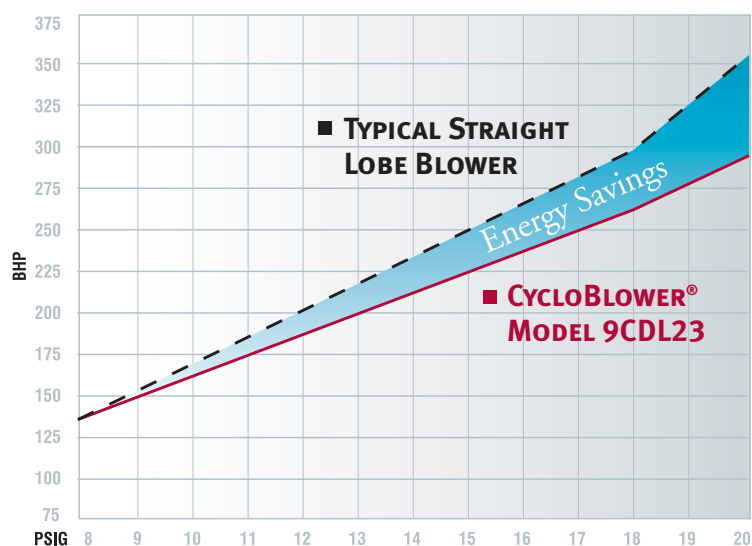
## Low Installation Cost

- A special foundation is not required
- CycloBlower requires a minimum of floor space
- Remanufactured units available

# The Efficiency Leader

## High Efficiency for Improved Energy Savings

### Brake Horsepower Requirement Comparison



In many comparable applications, the CycloBlower operates more efficiently than other straight-lobe blowers. By requiring less brake horsepower, BHP, energy operating costs can be realized and reduced.

**TOP CHART** shows a comparison of the BHP for a typical straight-lobe blower versus a CycloBlower 9CDL23. The CycloBlower requires less BHP to produce 3,000 CFM at pressures from 8 to 20 PSIG.

### Annual Energy Cost Savings

| PSI | Bhp Requirement For 3,000 CFM |                    | Assuming Motor/Drive Efficiency = .90<br>Cost/Kwh = \$.09 |                          |
|-----|-------------------------------|--------------------|-----------------------------------------------------------|--------------------------|
|     | Typical Straight Lobe         | Cycloblower 9CDL23 | Percent Bhp Reduction                                     | Annual Estimated Savings |
| 8   | 130                           | 125                | 3.8%                                                      | \$ 3,257                 |
| 9   | 145                           | 140                | 3.4%                                                      | \$ 3,257                 |
| 10  | 162                           | 154                | 4.9%                                                      | \$ 5,212                 |
| 11  | 180                           | 167                | 7.2%                                                      | \$ 8,469                 |
| 12  | 195                           | 180                | 7.7%                                                      | \$ 9,772                 |
| 13  | 212                           | 195                | 8.0%                                                      | \$ 11,075                |
| 14  | 230                           | 210                | 8.7%                                                      | \$ 13,029                |
| 15  | 245                           | 222                | 9.4%                                                      | \$ 14,983                |
| 16  | 260                           | 235                | 10.0%                                                     | \$ 16,286                |
| 17  | 276                           | 249                | 10.5%                                                     | \$ 17,589                |
| 18  | 294                           | 264                | 11.6%                                                     | \$ 19,544                |
| 19  | 340                           | 278                | 18.0%                                                     | \$ 40,390                |
| 20  | 360                           | 291                | 19.1%                                                     | \$ 44,950                |

**BOTTOM CHART** translates the resulting BHP comparison reduction into annual energy cost savings. Calculations are based on the cost of providing 3,000 CFM of air for 8,736 hours, approximately 1 year, of operation assuming motor/drive efficiency = .90, and energy cost per kilowatt-hour = \$0.09.

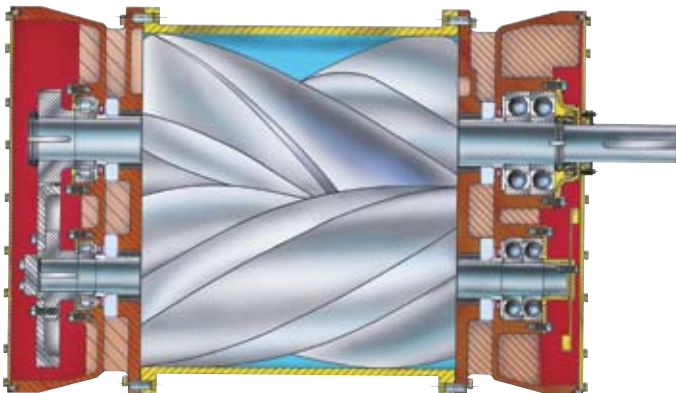
## Unique CycloBlower Design Features

### Optimum Efficiency, Proven Results

The CycloBlower stands out as the premium PD blower/vacuum pump in the market. The meshing of two helical lobe rotors synchronized by timing gears provides controlled compression of air for unmatched efficiency and shock-free discharge. State-of-the-art manufacturing techniques, improved assembly methods, and enhanced internal clearances allow the CycloBlower to operate at higher operating speeds for increased flow capacities. For optimal performance, we recommend AEON® PD and AEON® PD-XD (Extreme Duty for high ambient and/or high discharge temperatures) lubricants.

**Rotors** — Helical four-flute gate rotor and two-lobe main rotor are milled from high tensile strength ductile iron, stress relieved and dynamically balanced.

**Housing** — One piece, high strength housing resists deflection to retain accurate running tolerances between rotors. Contoured porting provides smooth air flow.



Critical Component Inspections = Quality Products

**Bearings** — Anti-friction bearings carry the shaft loads in all models. CycloBlowers use pairs of angular contact ball bearings on the discharge end and cylindrical roller bearings or single-row ball bearings on the gear end. (Not standard on 3CDL models.)

**Timing Gears** — Synchronization of rotors is through a pair of helical timing gears. Precision alloy steel gears provide quiet, accurate operation.

**Oil Seals** — Hydrodynamic oil seals automatically push lubricant back towards reservoir for superior sealing

**Air/Gas Seals** — Labyrinth-type shaft seals provide a minimum of controlled leakage of air or gas. Purged labyrinth seals or mechanical seals are available with units handling gas, where leakage cannot be tolerated. (Mechanical seals not available on 3CDL and A5CDL models.)

**Dual-Splash Lubrication** — Gears and bearings are lubricated by a splash oil system. (Not standard on A5CDL models.)

## Delivering clean, oil-free air to a wide range of global applications

### INDUSTRIAL PROCESSING

Recovery Air of Gas  
 Combustion Air  
 Air Drying  
 Air Flotation and Sliding  
 Blow-off Systems/Drying/Can Drying  
 Carbon Black  
 Coal Gasification  
 Coke Oven Gas  
 Gas Boosting  
 Vacuum Systems  
 Air Knife Stripping

### WATER TREATMENT

Pond Aeration, Municipal or Industrial  
 Wastewater Treatment  
 Aeration  
 Air Scouring  
 Digester Gas Boosters  
 Filter Backwashing

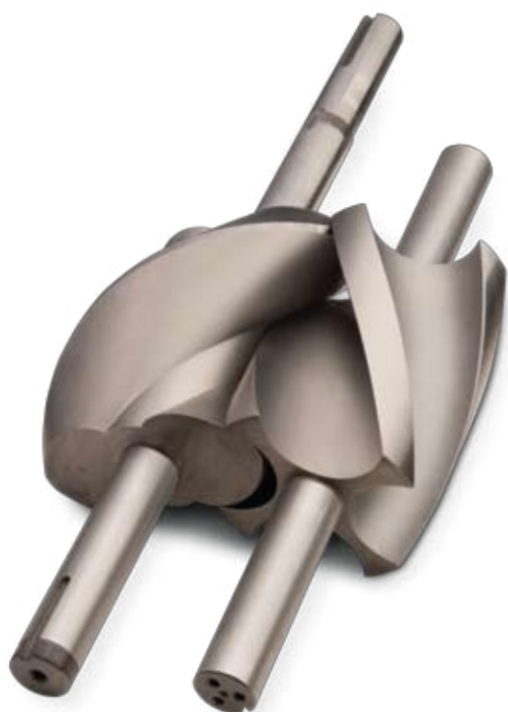
### PARTICULATE HANDLING

Clean Rooms  
 Clean-Up  
 Pneumatic Conveying  
 Dry Bulk  
 Fly Ash  
 Source Capture

### Dimensional Data

| Model   | L                              | W                              | H                              | Size & Type Ports                                             | WT   |
|---------|--------------------------------|--------------------------------|--------------------------------|---------------------------------------------------------------|------|
| 3CDL5   | 19 <sup>1</sup> / <sub>8</sub> | 10 <sup>1</sup> / <sub>2</sub> | 11 <sup>1</sup> / <sub>2</sub> | 2.5" NPT, Both Ports                                          | 165  |
| 3CDL8   | 22 <sup>1</sup> / <sub>8</sub> | 10 <sup>1</sup> / <sub>2</sub> | 11 <sup>1</sup> / <sub>2</sub> | 3" NPT, Both Ports                                            | 185  |
| A5CDL5  | 19 <sup>1</sup> / <sub>4</sub> | 15                             | 15 <sup>1</sup> / <sub>4</sub> | 3" NPT, Both Ports                                            | 237  |
| A5CDL9  | 23 <sup>1</sup> / <sub>4</sub> | 15                             | 15 <sup>1</sup> / <sub>4</sub> | 5" Flange, 10" OD, Both Ports                                 | 310  |
| A5CDL13 | 27 <sup>1</sup> / <sub>4</sub> | 15                             | 15 <sup>1</sup> / <sub>4</sub> | 5" Flange, 10" OD, Both Ports                                 | 361  |
| 5CDL5   | 28 <sup>3</sup> / <sub>4</sub> | 15                             | 15 <sup>1</sup> / <sub>4</sub> | 3" Flange, 7.5" OD, Both Ports                                | 372  |
| 5CDL9   | 32 <sup>3</sup> / <sub>4</sub> | 15                             | 15 <sup>1</sup> / <sub>4</sub> | 5" Flange, 10" OD, Both Ports                                 | 441  |
| 5CDL13  | 36 <sup>3</sup> / <sub>4</sub> | 15                             | 15 <sup>1</sup> / <sub>4</sub> | 5" Flange, 10" OD, Both Ports                                 | 500  |
| 7CDL11  | 36 <sup>1</sup> / <sub>2</sub> | 20 <sup>1</sup> / <sub>2</sub> | 19 <sup>3</sup> / <sub>4</sub> | 8" Flange, 13.5" OD, Both Ports                               | 867  |
| 7CDL14  | 39 <sup>1</sup> / <sub>2</sub> | 20 <sup>1</sup> / <sub>2</sub> | 19 <sup>3</sup> / <sub>4</sub> | 8" Flange, 13.5" OD, Both Ports                               | 911  |
| 7CDL17  | 42 <sup>1</sup> / <sub>2</sub> | 20 <sup>1</sup> / <sub>2</sub> | 19 <sup>3</sup> / <sub>4</sub> | 8" Flange, 13.5" OD, Both Ports                               | 1016 |
| 9CDL13  | 40 <sup>3</sup> / <sub>8</sub> | 25 <sup>3</sup> / <sub>4</sub> | 23                             | 8" Flange, 13.5" OD, Both Ports                               | 1500 |
| 9CDL18  | 44 <sup>1</sup> / <sub>2</sub> | 25 <sup>3</sup> / <sub>4</sub> | 23                             | Inlet – 10" Flange, 16" OD<br>Discharge – 8" Flange, 13.5" OD | 1673 |
| 9CDL23  | 49 <sup>1</sup> / <sub>2</sub> | 25 <sup>3</sup> / <sub>4</sub> | 23                             | Inlet – 10" Flange, 16" OD<br>Discharge – 8" Flange, 13.5" OD | 1843 |
| 11CDL23 | 53                             | 33                             | 29                             | Inlet – 14" Flange, 21" OD<br>Discharge – 12" Flange, 19" OD  | 3150 |
| 11CDL27 | 57                             | 33                             | 29                             | Inlet – 14" Flange, 21" OD<br>Discharge – 12" Flange, 19" OD  | 3340 |
| 11CDL31 | 61                             | 33                             | 29                             | Inlet – 14" Flange, 21" OD<br>Discharge – 12" Flange, 19" OD  | 3530 |

Dimensions shown in inches. Weights are in pounds and approximate.



CycloBlower—  
Industry unique rotor profile



# CycloBlower Performance Data

| Blower Model | Speed RPM | Pressure |      |        |      |         |      |         |      |         |      |         |       | Vacuum |      |        |      |        |      |        |      |  |
|--------------|-----------|----------|------|--------|------|---------|------|---------|------|---------|------|---------|-------|--------|------|--------|------|--------|------|--------|------|--|
|              |           | 5 PSIG   |      | 9 PSIG |      | 12 PSIG |      | 15 PSIG |      | 18 PSIG |      | 20 PSIG |       | 8" Hg  |      | 12" Hg |      | 16" Hg |      | 17" Hg |      |  |
|              |           | CFM      | BHP  | CFM    | BHP  | CFM     | BHP  | CFM     | BHP  | CFM     | BHP  | CFM     | BHP   | CFM    | BHP  | CFM    | BHP  | CFM    | BHP  | CFM    | BHP  |  |
| 3CDL5        | 1000      | 62       | 1.8  | 48     | 3.2  | 38      | 4.1  | 26      | 5.5  |         |      |         |       | 56     | 1.8  |        |      |        |      |        |      |  |
|              | 1500      | 108      | 3.4  | 94     | 5.6  | 84      | 7.0  | 74      | 9.0  |         |      |         |       | 105    | 2.9  | 92     | 3.8  |        |      |        |      |  |
|              | 2000      | 153      | 5.0  | 104    | 8.0  | 131     | 10.0 | 121     | 12.4 | 111     | 14.5 |         |       | 155    | 4.0  | 142    | 5.4  | 125    | 6.8  |        |      |  |
|              | 2500      | 198      | 6.7  | 186    | 10.4 | 178     | 13.0 | 168     | 15.8 | 159     | 18.5 |         |       | 206    | 5.1  | 192    | 7.0  | 175    | 8.9  |        |      |  |
|              | 3000      | 243      | 8.4  | 232    | 12.6 | 225     | 16.0 | 216     | 19.2 | 207     | 22.5 |         |       | 254    | 6.2  | 241    | 8.6  | 223    | 10.9 |        |      |  |
|              | 3500      | 289      | 10.0 | 278    | 15.0 | 272     | 18.9 | 264     | 22.6 | 256     | 26.5 |         |       | 304    | 7.3  | 292    | 10.2 | 273    | 13.0 |        |      |  |
| 3CDL8        | 1000      | 85       | 2.6  | 61     | 4.9  | 53      | 6.5  | 42      | 8.7  |         |      |         |       | 80     | 2.4  |        |      |        |      |        |      |  |
|              | 1500      | 152      | 4.5  | 144    | 7.9  | 134     | 10.5 | 120     | 13.1 |         |      |         |       | 155    | 3.9  | 135    | 5.3  |        |      |        |      |  |
|              | 2000      | 220      | 6.5  | 200    | 11.0 | 188     | 14.2 | 175     | 17.5 | 160     | 20.8 |         |       | 228    | 5.4  | 208    | 7.4  | 188    | 9.4  |        |      |  |
|              | 2500      | 287      | 8.5  | 265    | 14.0 | 256     | 18.0 | 242     | 21.8 | 228     | 26.0 |         |       | 304    | 7.0  | 284    | 9.3  | 262    | 12.0 |        |      |  |
|              | 3000      | 355      | 10.5 | 332    | 17.0 | 322     | 22.0 | 311     | 26.3 | 296     | 31.4 |         |       | 378    | 8.5  | 358    | 11.2 | 338    | 14.4 |        |      |  |
|              | 3500      | 422      | 12.3 | 400    | 20.1 | 388     | 25.6 | 378     | 30.6 | 362     | 36.6 |         |       | 452    | 9.9  | 432    | 13.2 | 412    | 16.8 |        |      |  |
| A5CDL5       | 1500      | 97       | 3.5  | 78     | 6.0  |         |      |         |      |         |      |         |       | 108    | 3.0  | 90     | 4.1  |        |      |        |      |  |
|              | 2000      | 143      | 4.5  | 124    | 8.0  | 112     | 10.0 |         |      |         |      |         |       | 158    | 3.9  | 141    | 5.3  |        |      |        |      |  |
|              | 2500      | 190      | 6.5  | 171    | 10.5 | 159     | 13.5 |         |      |         |      |         |       | 210    | 4.9  | 193    | 6.6  |        |      |        |      |  |
|              | 3000      | 238      | 8.0  | 218    | 13.2 | 205     | 17.0 |         |      |         |      |         |       | 261    | 6.2  | 244    | 8.1  |        |      |        |      |  |
|              | 3500      | 283      | 10.1 | 265    | 16.0 | 252     | 20.2 |         |      |         |      |         |       | 312    | 7.6  | 296    | 10.0 |        |      |        |      |  |
|              | 4000      | 330      | 12.5 | 312    | 18.5 | 298     | 24.0 |         |      |         |      |         |       | 362    | 9.1  | 347    | 11.7 |        |      |        |      |  |
| A5CDL9       | 1500      | 180      | 6.5  | 150    | 12.0 |         |      |         |      |         |      |         |       | 163    | 4.6  | 125    | 6.6  |        |      |        |      |  |
|              | 2000      | 267      | 8.5  | 237    | 15.0 | 220     | 19.0 |         |      |         |      |         |       | 258    | 6.1  | 220    | 8.5  |        |      |        |      |  |
|              | 2500      | 355      | 10.5 | 325    | 17.5 | 307     | 23.0 |         |      |         |      |         |       | 355    | 7.7  | 315    | 11.1 |        |      |        |      |  |
|              | 3000      | 442      | 12.5 | 412    | 21.0 | 394     | 27.5 |         |      |         |      |         |       | 450    | 10.2 | 411    | 13.4 |        |      |        |      |  |
|              | 3500      | 530      | 15.0 | 500    | 25.0 | 482     | 32.0 |         |      |         |      |         |       | 545    | 10.8 | 506    | 15.6 |        |      |        |      |  |
|              | 4000      | 617      | 18.0 | 587    | 30.0 | 570     | 38.0 |         |      |         |      |         |       | 640    | 12.5 | 600    | 17.9 |        |      |        |      |  |
| A5CDL13      | 1500      | 250      | 8.0  | 219    | 14.0 | 194     | 19.0 |         |      |         |      |         |       | 230    | 6.0  | 180    | 9.0  |        |      |        |      |  |
|              | 2000      | 375      | 11.5 | 343    | 19.2 | 319     | 25.5 |         |      |         |      |         |       | 350    | 8.9  | 300    | 12.2 |        |      |        |      |  |
|              | 2500      | 500      | 15.0 | 468    | 24.5 | 444     | 32.0 |         |      |         |      |         |       | 470    | 11.5 | 422    | 15.8 |        |      |        |      |  |
|              | 3000      | 625      | 18.5 | 593    | 30.0 | 569     | 39.0 |         |      |         |      |         |       | 593    | 14.5 | 543    | 19.2 |        |      |        |      |  |
|              | 3500      | 750      | 22.2 | 718    | 36.0 | 694     | 46.5 |         |      |         |      |         |       | 712    | 17.3 | 665    | 22.6 |        |      |        |      |  |
|              | 4000      | 875      | 27.5 | 843    | 43.0 | 819     | 54.0 |         |      |         |      |         |       | 835    | 20.0 | 785    | 26.1 |        |      |        |      |  |
| 5CDL5        | 1500      | 97       | 3.5  | 78     | 6.0  | 112     | 10.0 |         |      |         |      |         |       | 108    | 3.0  | 90     | 4.1  |        |      |        |      |  |
|              | 2000      | 143      | 4.5  | 124    | 8.0  | 112     | 10.0 |         |      |         |      |         |       | 158    | 3.9  | 141    | 5.3  | 124    | 7.2  |        |      |  |
|              | 2500      | 190      | 6.5  | 171    | 10.5 | 159     | 13.5 | 149     | 17.0 |         |      |         |       | 210    | 4.9  | 193    | 6.6  | 176    | 8.8  | 174    | 9.2  |  |
|              | 3000      | 238      | 8.0  | 218    | 13.2 | 205     | 17.0 | 195     | 20.8 |         |      |         |       | 261    | 6.2  | 244    | 8.1  | 228    | 10.4 | 225    | 11.0 |  |
|              | 3500      | 283      | 10.1 | 265    | 16.0 | 252     | 20.2 | 240     | 24.8 | 226     | 28.7 |         |       | 312    | 7.6  | 296    | 10.0 | 281    | 12.3 | 276    | 12.9 |  |
|              | 4000      | 330      | 12.5 | 312    | 18.5 | 298     | 24.0 | 285     | 29.0 | 267     | 33.4 | 263     | 37.1  | 362    | 9.1  | 347    | 11.7 | 333    | 14.3 | 327    | 14.8 |  |
| 5CDL9        | 1500      | 180      | 6.0  | 150    | 12.0 |         |      |         |      |         |      |         |       | 165    | 4.7  | 130    | 6.6  | 82     | 9.4  |        |      |  |
|              | 2000      | 267      | 8.0  | 237    | 15.0 | 220     | 19.0 |         |      |         |      |         |       | 260    | 6.0  | 223    | 8.9  | 175    | 12.5 |        |      |  |
|              | 2500      | 355      | 10.2 | 325    | 17.5 | 307     | 23.0 | 290     | 28.5 |         |      |         |       | 355    | 7.5  | 315    | 11.1 | 272    | 15.5 |        |      |  |
|              | 3000      | 442      | 12.5 | 412    | 21.0 | 394     | 27.5 | 380     | 34.0 | 365     | 40.0 | 348     | 44.9  | 450    | 9.1  | 412    | 13.4 | 367    | 18.5 | 359    | 19.9 |  |
|              | 3500      | 530      | 15.0 | 500    | 25.0 | 482     | 32.0 | 465     | 40.0 | 450     | 45.0 | 436     | 52.4  | 545    | 10.6 | 504    | 15.6 | 462    | 21.5 | 454    | 23.1 |  |
|              | 4000      | 617      | 18.0 | 587    | 30.0 | 570     | 38.0 | 550     | 46.0 | 540     | 53.0 | 524     | 60.6  | 640    | 12.2 | 600    | 17.9 | 558    | 24.5 | 549    | 26.4 |  |
| 5CDL13       | 1500      | 250      | 8.0  | 219    | 14.0 | 194     | 19.0 |         |      |         |      |         |       | 230    | 6.0  | 180    | 9.0  | 122    | 11.3 |        |      |  |
|              | 2000      | 375      | 11.5 | 343    | 19.2 | 319     | 25.5 | 300     | 32.0 |         |      |         |       | 350    | 8.9  | 300    | 12.2 | 245    | 15.4 |        |      |  |
|              | 2500      | 500      | 15.0 | 468    | 24.5 | 444     | 32.0 | 425     | 40.0 |         |      |         |       | 470    | 11.5 | 422    | 15.8 | 370    | 20.0 |        |      |  |
|              | 3000      | 625      | 18.5 | 593    | 30.0 | 569     | 39.0 | 550     | 48.0 | 525     | 58.0 | 510     | 62.5  | 593    | 14.5 | 543    | 19.2 | 495    | 24.0 | 482    | 25.2 |  |
|              | 3500      | 750      | 22.5 | 718    | 36.0 | 694     | 46.5 | 675     | 56.0 | 650     | 66.0 | 635     | 72.4  | 712    | 17.3 | 665    | 22.6 | 620    | 28.0 | 604    | 29.2 |  |
|              | 4000      | 875      | 27.5 | 843    | 43.0 | 819     | 54.0 | 800     | 64.0 | 775     | 74.0 | 760     | 82.2  | 835    | 20.0 | 760    | 26.1 | 745    | 32.0 | 726    | 33.4 |  |
| 5CDL13       | 4500      | 996      | 33.1 | 966    | 49.6 | 944     | 62.0 | 922     | 71.1 | 900     | 82.8 | 885     | 91.7  | 962    | 23.0 | 911    | 29.9 | 861    | 36.3 | 848    | 37.7 |  |
|              | 5000      | 1121     | 39.3 | 1091   | 56.4 | 1069    | 70.1 | 1047    | 78.2 | 1024    | 92.3 | 1009    | 101.3 | 1084   | 25.9 | 1033   | 33.5 | 982    | 40.4 | 970    | 42.0 |  |

| Blower Model | Speed RPM | Pressure |       |        |       |         |       |         |       |         |       |         |       | Vacuum |       |        |       |        |       |        |       |      |  |
|--------------|-----------|----------|-------|--------|-------|---------|-------|---------|-------|---------|-------|---------|-------|--------|-------|--------|-------|--------|-------|--------|-------|------|--|
|              |           | 5 PSIG   |       | 9 PSIG |       | 12 PSIG |       | 15 PSIG |       | 18 PSIG |       | 20 PSIG |       | 8" Hg  |       | 12" Hg |       | 16" Hg |       | 17" Hg |       |      |  |
|              |           | CFM      | BHP   | CFM    | BHP   | CFM     | BHP   | CFM     | BHP   | CFM     | BHP   | CFM     | BHP   | CFM    | BHP   | CFM    | BHP   | CFM    | BHP   | CFM    | BHP   |      |  |
| 7CDL11       | 1100      | 330      | 10.0  | 275    | 18.0  | 240     | 25.0  |         |       |         |       |         |       | 335    | 8.0   | 275    | 12.0  | 215    | 16.0  |        |       |      |  |
|              | 1600      | 540      | 16.5  | 485    | 28.0  | 455     | 37.0  |         |       |         |       |         |       | 555    | 12.0  | 495    | 18.0  | 425    | 24.0  |        |       |      |  |
|              | 2100      | 760      | 22.5  | 705    | 38.0  | 670     | 49.0  | 640     | 59.0  | 620     | 72.0  | 584     | 78.5  | 780    | 17.5  | 720    | 24.0  | 645    | 32.0  | 633    | 33.4  |      |  |
|              | 2600      | 980      | 28.0  | 920    | 48.0  | 890     | 61.0  | 855     | 75.0  | 835     | 91.0  | 801     | 97.8  | 1010   | 22.5  | 940    | 30.0  | 865    | 39.0  | 858    | 42.8  |      |  |
|              | 3100      | 1200     | 35.0  | 1140   | 59.0  | 1110    | 75.0  | 1080    | 91.0  | 1050    | 110.0 | 1019    | 118.9 | 1230   | 26.0  | 1165   | 36.0  | 1085   | 47.0  | 1082   | 52.1  |      |  |
|              | 3600      | 1410     | 42.0  | 1360   | 70.0  | 1325    | 89.0  | 1290    | 108.0 | 1260    | 130.0 | 1237    | 141.7 | 1455   | 30.0  | 1385   | 43.0  | 1310   | 56.0  | 1306   | 60.8  |      |  |
|              | 4000      | 1591     | 48.5  | 1543   | 78.7  | 1507    | 100.0 | 1471    | 121.0 | 1435    | 144.9 | 1411    | 160.4 | 1633   | 35.1  | 1567   | 48.3  | 1501   | 63.8  | 1485   | 67.5  |      |  |
| 7CDL14       | 1100      | 430      | 16.0  | 380    | 24.0  | 350     | 30.0  |         |       |         |       |         |       | 440    | 10.0  | 385    | 14.0  | 320    | 18.0  |        |       |      |  |
|              | 1600      | 700      | 20.0  | 650    | 33.0  | 620     | 44.0  | 595     | 55.0  |         |       |         |       | 735    | 15.0  | 675    | 22.0  | 615    | 27.0  | 599    | 29.1  |      |  |
|              | 2100      | 975      | 27.0  | 925    | 44.0  | 895     | 58.0  | 865     | 72.0  | 815     | 85.0  | 804     | 94.0  | 1030   | 22.0  | 970    | 29.0  | 910    | 37.0  | 893    | 39.2  |      |  |
|              | 2600      | 1250     | 35.0  | 1200   | 57.0  | 1170    | 75.0  | 1140    | 91.0  | 1090    | 107.0 | 1078    | 119.8 | 1325   | 26.0  | 1265   | 37.5  | 1205   | 47.0  | 1187   | 49.1  |      |  |
|              | 3100      | 1530     | 44.0  | 1470   | 70.0  | 1450    | 90.0  | 1420    | 110.0 | 1370    | 130.0 | 1353    | 144.2 | 1615   | 32.0  | 1560   | 44.0  | 1500   | 56.0  | 1481   | 58.9  |      |  |
|              | 3600      | 1800     | 53.0  | 1750   | 84.0  | 1720    | 107.0 | 1695    | 130.0 | 1650    | 152.0 | 1627    | 167.2 | 1900   | 38.0  | 1850   | 52.5  | 1790   | 66.0  | 1775   | 68.8  |      |  |
|              | 4000      | 2023     | 61.9  | 1976   | 96.3  | 1941    | 120.8 | 1905    | 141.5 | 1870    | 170.8 | 1847    | 185.9 | 2145   | 42.4  | 2085   | 58.4  | 2025   | 73.4  | 2010   | 76.7  |      |  |
| 7CDL17       | 1100      | 490      | 15.0  | 410    | 25.0  | 370     | 30.0  |         |       |         |       |         |       | 525    | 12.0  | 450    | 16.0  | 375    | 22.0  |        |       |      |  |
|              | 1600      | 810      | 22.0  | 740    | 39.0  | 695     | 48.0  |         |       |         |       |         |       | 870    | 18.0  | 800    | 24.0  | 720    | 32.0  | 722    | 34.4  |      |  |
|              | 2100      | 1140     | 30.0  | 1070   | 53.0  | 1025    | 68.0  | 985     | 84.0  | 950     | 98.0  | 918     | 112.4 | 1225   | 24.0  | 1160   | 32.0  | 1075   | 42.0  | 1078   | 45.2  |      |  |
|              | 2600      | 1460     | 40.0  | 1400   | 67.0  | 1355    | 86.0  | 1320    | 106.0 | 1285    | 124.0 | 1247    | 138.5 | 1590   | 31.0  | 1520   | 41.0  | 1430   | 52.0  | 1434   | 55.9  |      |  |
|              | 3100      | 1795     | 51.0  | 1730   | 81.0  | 1690    | 105.0 | 1650    | 128.0 | 1625    | 150.0 | 1576    | 163.1 | 1930   | 40.0  | 1875   | 50.0  | 1820   | 63.0  | 1789   | 67.4  |      |  |
|              | 3600      | 2125     | 64.0  | 2060   | 98.0  | 2025    | 124.0 | 1990    | 152.0 | 1960    | 176.0 | 1905    | 190.1 | 2290   | 48.0  | 2250   | 60.0  | 2165   | 75.0  | 2145   | 79.8  |      |  |
|              | 4000      | 2391     | 75.3  | 2331   | 109.3 | 2287    | 136.5 | 2242    | 166.1 | 2197    | 194.7 | 2168    | 212.7 | 2572   | 57.5  | 2509   | 69.8  | 2446   | 85.0  | 2430   | 89.7  |      |  |
| 9CDL13       | 1200      | 825      | 23.0  | 740    | 40.0  | 690     | 52.0  |         |       |         |       |         |       | 790    | 20.0  | 730    | 27.0  |        |       |        |       |      |  |
|              | 1500      | 1075     | 30.0  | 990    | 51.0  | 950     | 67.0  | 910     | 82.0  |         |       |         |       | 1055   | 25.0  | 990    | 34.0  | 900    | 42.0  | 896    | 42.6  |      |  |
|              | 1800      | 1330     | 40.0  | 1250   | 63.0  | 1210    | 82.0  | 1170    | 100.0 | 1130    | 120.0 | 1099    | 132.4 | 1320   | 30.0  | 1250   | 41.0  | 1160   | 51.0  | 1133   | 52.2  |      |  |
|              | 2100      | 1580     | 49.0  | 1510   | 76.0  | 1470    | 99.0  | 1430    | 120.0 | 1395    | 144.0 | 1358    | 155.7 | 1580   | 37.0  | 1510   | 48.0  | 1420   | 61.0  | 1397   | 63.0  |      |  |
|              | 2400      | 1835     | 60.0  | 1770   | 91.0  | 1730    | 117.0 | 1690    | 141.0 | 1660    | 167.0 | 1616    | 180.7 | 1850   | 44.0  | 1770   | 58.0  | 1675   | 72.0  | 1661   | 74.9  |      |  |
|              | 2700      | 2090     | 76.0  | 2025   | 110.0 | 1990    | 138.0 | 1955    | 164.0 | 1920    | 190.0 | 1875    | 206.6 | 2110   | 55.0  | 2030   | 69.0  | 1935   | 85.0  | 1925   | 87.5  |      |  |
|              | 3000      | 2363     | 89.5  | 2302   | 128.0 | 2256    | 159.5 | 2211    | 187.9 | 2165    | 212.1 | 2134    | 234.3 | 2389   | 64.5  | 2300   | 80.0  | 2211   | 96.6  | 2189   | 100.9 |      |  |
| 9CDL18       | 1200      | 1130     | 32.0  | 1020   | 52.0  | 960     | 70.0  | 920     | 85.0  |         |       |         |       | 1170   | 25.0  | 1100   | 36.0  | 1030   | 47.0  | 1027   | 52.2  |      |  |
|              | 1500      | 1480     | 42.0  | 1385   | 69.0  | 1325    | 89.0  | 1280    | 106.0 |         |       |         |       | 1530   | 32.0  | 1460   | 44.0  | 1390   | 57.0  | 1389   | 61.3  |      |  |
|              | 1800      | 1840     | 52.0  | 1750   | 85.0  | 1690    | 110.0 | 1640    | 130.0 | 1600    | 152.0 | 1557    | 175.3 | 1890   | 39.0  | 1830   | 53.0  | 1760   | 68.0  | 1750   | 72.3  |      |  |
|              | 2100      | 2195     | 63.0  | 2110   | 101.0 | 2060    | 131.0 | 2010    | 155.0 | 1965    | 184.0 | 1916    | 208.4 | 2250   | 48.0  | 2190   | 63.0  | 2130   | 80.0  | 2112   | 85.1  |      |  |
|              | 2400      | 2550     | 77.0  | 2465   | 120.0 | 2420    | 152.0 | 2370    | 182.0 | 2330    | 216.0 | 2275    | 241.7 | 2610   | 60.0  | 2550   | 76.0  | 2495   | 94.0  | 2473   | 99.9  |      |  |
|              | 2700      | 2900     | 95.0  | 2820   | 140.0 | 2780    | 175.0 | 2740    | 216.0 | 2690    | 255.0 | 2634    | 277.2 | 2965   | 77.0  | 2910   | 95.0  | 2855   | 113.0 | 2835   | 117.1 |      |  |
|              | 3000      | 3273     | 110.9 | 3199   | 160.5 | 3142    | 200.4 | 3086    | 249.9 | 3030    | 293.7 | 2993    | 317.6 | 3340   | 95.9  | 3276   | 114.9 | 3212   | 132.7 | 3196   | 136.9 |      |  |
| 9CDL23       | 1200      | 1370     | 42.0  | 1220   | 70.0  | 1150    | 85.0  | 1070    | 95.0  |         |       |         |       | 1380   | 32.0  | 1275   | 43.0  | 1150   | 54.0  | 1097   | 54.2  |      |  |
|              | 1500      | 1810     | 56.0  | 1680   | 88.0  | 1620    | 107.0 | 1550    | 125.0 | 1460    | 150.0 | 1420    | 169.0 | 1850   | 42.0  | 1730   | 55.0  | 1600   | 69.0  | 1563   | 72.2  |      |  |
|              | 1800      | 2270     | 70.0  | 2150   | 107.0 | 2090    | 133.0 | 2020    | 156.0 | 1930    | 185.0 | 1882    | 203.6 | 2320   | 51.0  | 2200   | 67.0  | 2060   | 86.0  | 2028   | 90.4  |      |  |
|              | 2100      | 2720     | 85.0  | 2610   | 127.0 | 2560    | 159.0 | 2500    | 187.0 | 2410    | 222.0 | 2345    | 238.6 | 2780   | 61.0  | 2650   | 79.0  | 2510   | 102.0 | 2494   | 108.7 |      |  |
|              | 2400      | 3180     | 97.0  | 3080   | 147.0 | 3040    | 185.0 | 2980    | 218.0 | 2890    | 257.0 | 2807    | 275.1 | 3250   | 70.0  | 3110   | 92.0  | 2970   | 118.0 | 2959   | 126.7 |      |  |
|              | 2700      | 3630     | 110.0 | 3550   | 166.0 | 3500    | 210.0 | 3450    | 250.0 | 3360    | 295.0 | 3269    | 313.1 | 3720   | 80.0  | 3570   | 104.0 | 3410   | 134.0 | 3425   | 144.6 |      |  |
|              | 3000      | 4110     | 124.6 | 4009   | 186.4 | 3933    | 232.9 | 3857    | 271.8 | 3782    | 323.5 | 3731    | 350.5 | 4173   | 89.5  | 4047   | 115.9 | 3922   | 152.1 | 3890   | 162.4 |      |  |
| 11CDL23      | 800       | 1600     | 50.0  | 1420   | 80.0  | 1380    | 100.0 | 1280    | 118.0 | 1220    | 140.0 |         |       | 1500   | 35.0  | 1325   | 50.0  | 1160   | 63.0  |        |       |      |  |
|              | 1100      | 2330     | 60.0  | 2160   | 105.0 | 2060    | 130.0 | 2000    | 160.0 | 1900    | 190.0 | 1803    | 213.6 | 2250   | 49.0  | 2070   | 68.0  | 1880   | 86.0  | 1816   | 87.0  |      |  |
|              | 1400      | 3065     | 85.0  | 2900   | 140.0 | 2810    | 175.0 | 2700    | 215.0 | 2600    | 250.0 | 2523    | 279.6 | 2990   | 70.0  | 2800   | 92.0  | 2625   | 114.0 | 2562   | 114.0 |      |  |
|              | 1700      | 3800     | 115.0 | 3630   | 175.0 | 3520    | 220.0 | 3400    | 265.0 | 3300    | 315.0 | 3243    | 348.8 | 3720   | 94.0  | 3540   | 120.0 | 3340   | 143.0 | 3309   | 144.8 |      |  |
|              | 2000      | 4530     | 145.0 | 4360   | 215.0 | 4240    | 270.0 | 4120    | 320.0 | 4000    | 375.0 | 3963    | 416.2 | 4480   | 122.0 | 4280   | 148.0 | 4080   | 175.0 | 4055   | 178.1 |      |  |
|              | 2200      | 4988     | 171.6 | 4843   | 240.6 | 4734    | 303.1 | 4625    | 362.5 | 4516    | 425.4 | 4443    | 461.2 | 4974   | 139.8 | 4787   | 169.3 | 4599   | 193.9 | 4552   | 200.9 |      |  |
|              | 11CDL27   | 800      | 1760  | 50.0   | 1580  | 85.0    | 1440  | 115.0   | 1320  | 140.0   |       |         |       |        | 1725  | 40.0   | 1515  | 57.0   | 1310  | 74.0   |       |      |  |
| 1100         |           | 2600     | 75.0  | 2400   | 120.0 | 2280    | 160.0 | 2160    | 190.0 | 2040    | 230.0 | 1951    | 249.6 | 2590   | 57.0  | 2390   | 78.0  | 2190   | 99.0  | 2121   | 106.3 |      |  |
| 1400         |           | 3440     | 103.0 | 3240   | 155.0 | 3120    | 205.0 | 3000    | 250.0 | 2880    | 290.0 | 2791    | 322.7 | 3460   | 81.0  | 3260   | 106.0 | 3060   | 132.0 | 2989   | 137.0 |      |  |
| 1700         |           | 4280     | 135.0 | 4080   | 200.0 | 3960    | 255.0 | 3840    | 310.0 | 3700    | 360.0 | 3630    | 402.2 | 4340   | 108.0 | 4130   | 137.0 | 3920   | 165.0 | 3856   | 170.1 |      |  |
| 2000         |           | 5120     | 170.0 | 4920   | 250.0 | 4800    | 315.0 | 4680    | 380.0 | 4560    | 440.0 | 4469    | 484.2 | 5200   | 140.0 | 4990   | 168.0 | 4780   | 197.0 | 4724   | 203.9 |      |  |
| 2200         |           | 5677     | 197.2 | 5504   | 285.5 | 5374    | 357.2 | 5245    | 420.6 | 5115    | 496.9 | 5029    | 539.3 | 5762   | 161.5 | 5558   | 187.9 | 5353   | 218.2 | 5302   | 226.2 |      |  |
| 11CDL31      |           | 800      | 2020  | 60.0   | 1825  | 95.0    | 1700  | 125.0   | 1575  | 155.0   | 1450  | 185.0   |       |        | 2100  | 45.0   | 1900  | 62.0   | 1700  | 80.0   | 1677  | 83.4 |  |
|              | 1100      | 3000     | 80.0  | 2800   | 135.0 | 2690    | 170.0 | 2565    | 210.0 | 2440    | 250.0 | 2342    | 272.7 | 3040   | 65.0  | 2825   | 88.0  | 2610   | 108.0 | 2589   | 111.0 |      |  |
|              | 1400      | 3990     | 110.0 | 3780   | 175.0 | 3680    | 225.0 | 3555    | 275.0 | 3430    | 325.0 | 3327    | 352.4 | 3920   | 89.0  | 3720   | 117.0 | 3550   | 140.0 | 3501   | 143.8 |      |  |
|              | 1700      | 4975     | 140.0 | 4770   | 225.0 | 4670    | 285.0 | 4550    | 345.0 | 4420    | 405.0 | 4312    | 445.1 | 4820   | 115.0 | 4645   | 147.0 | 4450   | 174.0 | 4413   | 181.6 |      |  |
|              | 2000      | 5950     | 180.0 | 5760   | 280.0 | 5660    | 355.0 | 5550    | 430.0 | 5420    | 500.0 | 5297    | 547.2 | 5720   | 145.0 | 5550   | 180.0 | 536    |       |        |       |      |  |

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