

# DuroFlow® Industrial 70 Series Positive Displacement Blowers/Vacuum Pumps

For over forty years DuroFlow® blowers/vacuum pumps have combined leading-edge technology and on-the-job experience to continuously deliver enhanced designs and improved performance. The DuroFlow design has earned a reputation as a leader in reliability and efficiency for applications that demand a dependable supply of oil-free air.

**Applications** – DuroFlow blowers/vacuum pumps deliver clean, oil-free air to a wide range of applications that include wastewater treatment, methane gas recovery, combustion air, pneumatic conveying, process gas boosting, fluidized bed, vapor and gas extraction, composting and vacuum systems.

## Key Features

**RELIABLE SPLASH OIL LUBRICATION AT BOTH GEAR AND DRIVE ENDS** – Provides superior gear and bearing lubrication for longer life at all operating conditions with minimal maintenance. Oversized double-row ball bearings support each shaft and fix rotor position.

**HEAVY-DUTY REINFORCED SINGLE PIECE CAST IRON CYLINDER** – Provides greater strength and rigidity to prevent distortion that can affect internal clearances and reduce performance. Extra cylinder mass and progressive porting aid in reducing noise.

**ROTORS AND SHAFTS** are machined from a single, high-strength ductile iron casting and dynamically balanced, assuring extra strength and rigidity to handle maximum loads on a continuous basis without fatigue, deflection or vibration.

**VERTICAL OR HORIZONTAL MOUNTING CONFIGURATION AVAILABLE FOR EACH BLOWER** – Provides flexibility for installing into any new or existing system.

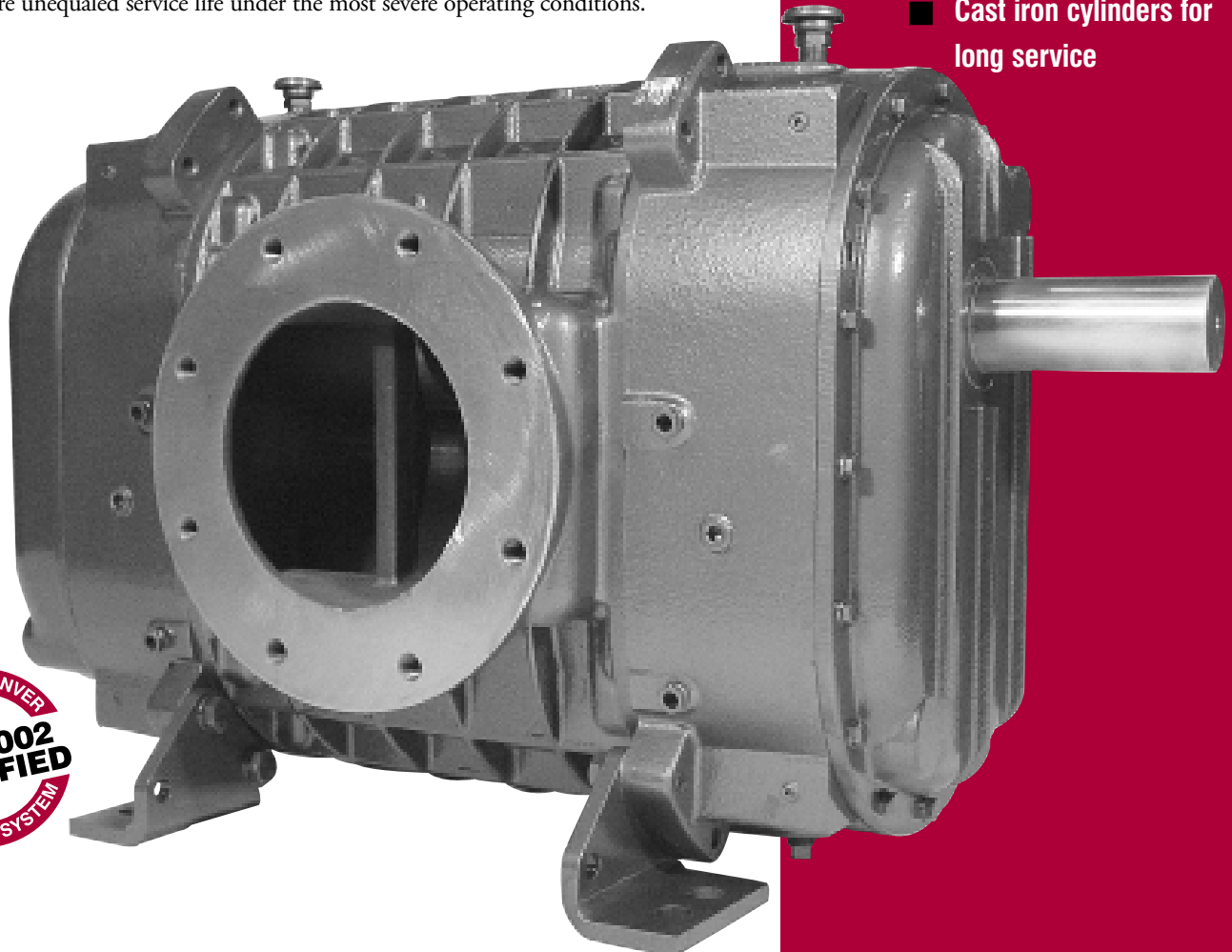
**QUALITY ASSURANCE** – Every DuroFlow is manufactured under rigid ISO 9002 quality standards and exhaustively tested to meet strict performance criteria before shipping to ensure unequalled service life under the most severe operating conditions.

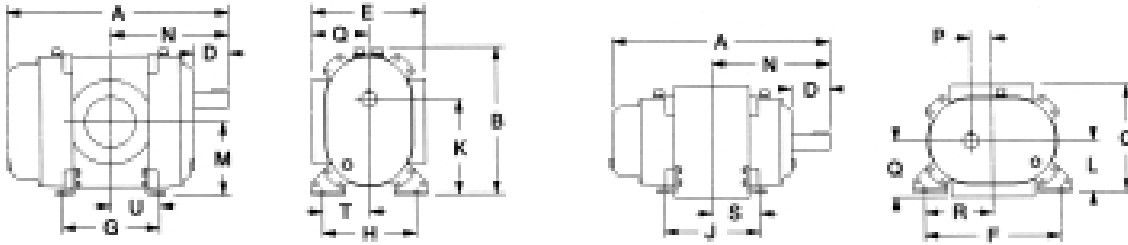


## Positive Displacement Lobe Blowers/Vacuum Pumps

### INDUSTRIAL 70 SERIES

- Airflow to 4,300 cfm
- Pressure to 15 psig
- Vacuum to 16 "Hg
- Proven performance and reliability
- Dual splash lubrication for heavy-duty service
- Cast iron cylinders for long service





| Model | Weight    | Port Size Connectors | Mtg. Bolt Hole Dia. | Shaft Diameter | A     | B     | C     | D    | E     | F     | G     | H     | J     | K     | L    | M     | N     | P    | Q    | R     | S     | T    | U     |
|-------|-----------|----------------------|---------------------|----------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|------|-------|-------|------|-------|
| 7009  | 740 lbs.  | 6" NPT               | 0.88                | 2.50           | 32.42 | 23.62 | 17.25 | 5.68 | 18.00 | 22.00 | 12.50 | 15.00 | 12.50 | 15.25 | 8.25 | 11.75 | 17.49 | 3.50 | 9.00 | 11.00 | 6.25  | 7.50 | 6.25  |
| 7012  | 850 lbs.  | 8" FLANGE            | 0.88                | 2.50           | 35.43 | 23.62 | 17.25 | 5.68 | 18.00 | 22.00 | 15.50 | 15.00 | 15.50 | 15.25 | 8.25 | 11.75 | 18.99 | 3.50 | 9.00 | 11.00 | 7.75  | 7.50 | 7.75  |
| 7015  | 940 lbs.  | 8" FLANGE            | 0.88                | 2.50           | 38.44 | 23.62 | 17.25 | 5.64 | 18.00 | 22.00 | 18.50 | 15.00 | 18.50 | 15.25 | 8.25 | 11.75 | 20.47 | 3.50 | 9.00 | 11.00 | 9.25  | 7.50 | 9.25  |
| 7018  | 990 lbs.  | 10" FLANGE           | 0.88                | 2.50           | 41.44 | 23.62 | 17.25 | 5.64 | 18.00 | 22.00 | 21.50 | 15.00 | 21.50 | 15.25 | 8.25 | 11.75 | 21.97 | 3.50 | 9.00 | 11.00 | 10.75 | 7.50 | 10.75 |
| 7023  | 1100 lbs. | 12" FLANGE           | 0.88                | 2.50           | 46.44 | 23.62 | 17.25 | 5.62 | 18.00 | 22.00 | 26.50 | 15.00 | 26.50 | 15.25 | 8.25 | 11.75 | 24.47 | 3.50 | 9.00 | 11.00 | 13.25 | 7.50 | 13.25 |
| 7028  | 1200 lbs. | 12" FLANGE           | 0.88                | 2.50           | 51.44 | 23.62 | 17.25 | 5.62 | 18.00 | 22.00 | 31.50 | 15.00 | 31.50 | 15.25 | 8.25 | 11.75 | 26.97 | 3.50 | 9.00 | 11.00 | 15.75 | 7.50 | 15.75 |

All dimensions shown in inches. Dimensions for installation purposes provided upon request.

**PRESSURE PERFORMANCE DATA**

| MODEL | RPM   | 4 PSIG |       | 6 PSIG |       | 8 PSIG |       | 10 PSIG |       | 12 PSIG |       | 15 PSIG |       |
|-------|-------|--------|-------|--------|-------|--------|-------|---------|-------|---------|-------|---------|-------|
|       |       | CFM    | BHP   | CFM    | BHP   | CFM    | BHP   | CFM     | BHP   | CFM     | BHP   | CFM     | BHP   |
| 7009  | 1,500 | 622    | 15.8  | 563    | 23.5  | 513    | 31.2  | 469     | 38.9  | 429     | 46.7  |         |       |
|       | 1,800 | 799    | 19.1  | 740    | 28.4  | 690    | 37.7  | 646     | 46.9  | 606     | 56.2  |         |       |
|       | 2,650 | 1,300  | 29.3  | 1,241  | 42.9  | 1,191  | 56.5  | 1,147   | 70.2  | 1,108   | 83.8  | 552     | 70.1  |
| 7012  | 1,500 | 853    | 21.0  | 779    | 31.4  | 716    | 41.7  | 660     | 52.0  | 610     | 62.4  |         |       |
|       | 1,800 | 1,090  | 25.4  | 1,016  | 37.8  | 953    | 50.2  | 897     | 62.6  | 847     | 75.0  | 779     | 93.6  |
|       | 2,650 | 1,762  | 38.5  | 1,687  | 56.8  | 1,624  | 75.0  | 1,569   | 93.3  | 1,519   | 111.5 | 1,451   | 138.9 |
| 7015  | 1,500 | 1,088  | 26.0  | 1,002  | 38.8  | 929    | 51.6  | 866     | 64.5  | 808     | 77.3  |         |       |
|       | 1,800 | 1,382  | 31.4  | 1,296  | 46.8  | 1,223  | 62.2  | 1,160   | 77.5  | 1,102   | 92.9  | 1,024   | 116.0 |
|       | 2,650 | 2,215  | 47.3  | 2,129  | 69.9  | 2,056  | 92.6  | 1,993   | 115.2 | 1,935   | 137.9 | 1,857   | 171.8 |
| 7018  | 1,500 | 1,322  | 31.2  | 1,221  | 46.7  | 1,136  | 62.1  | 1,061   | 77.5  | 993     | 93.0  | 902     | 116.1 |
|       | 1,800 | 1,676  | 37.7  | 1,575  | 56.2  | 1,490  | 74.7  | 1,415   | 93.2  | 1,347   | 111.8 | 1,256   | 139.5 |
|       | 2,650 | 2,679  | 56.5  | 2,578  | 83.8  | 2,493  | 111.1 | 2,418   | 138.3 | 2,350   | 165.6 | 2,259   | 206.5 |
| 7023  | 1,500 | 1,709  | 41.9  | 1,578  | 61.6  | 1,479  | 81.4  | 1,386   | 101.1 | 1,303   | 120.9 |         |       |
|       | 1,800 | 2,162  | 51.5  | 2,037  | 75.2  | 1,932  | 98.9  | 1,839   | 122.6 | 1,756   | 146.3 |         |       |
|       | 2,650 | 3,370  | 80.8  | 3,245  | 115.0 | 3,140  | 149.2 | 3,047   | 183.5 | 2,964   | 217.7 |         |       |
| 7028  | 1,500 | 2,094  | 51.4  | 1,944  | 75.4  | 1,818  | 99.5  | 1,707   | 123.6 |         |       |         |       |
|       | 1,800 | 2,646  | 63.4  | 2,496  | 92.2  | 2,370  | 121.1 | 2,259   | 150.0 |         |       |         |       |
|       | 2,600 | 4,118  | 100.3 | 3,968  | 142.0 | 3,842  | 183.8 | 3,731   | 225.5 |         |       |         |       |

**VACUUM PERFORMANCE DATA**

| MODEL | RPM   | 4 "Hg |      | 6 "Hg |      | 8 "Hg |      | 10 "Hg |       | 12 "Hg |       | 14 "Hg |       | 15 "Hg |       | 16 "Hg |       |
|-------|-------|-------|------|-------|------|-------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
|       |       | CFM   | BHP  | CFM   | BHP  | CFM   | BHP  | CFM    | BHP   | CFM    | BHP   | CFM    | BHP   | CFM    | BHP   | CFM    | BHP   |
| 7009  | 1,500 | 687   | 7.9  | 632   | 11.7 | 580   | 15.5 | 528    | 19.3  | 472    | 23.1  | 412    | 26.9  |        |       |        |       |
|       | 1,800 | 864   | 9.7  | 809   | 14.3 | 757   | 18.8 | 705    | 23.4  | 649    | 27.9  | 589    | 32.5  |        |       |        |       |
|       | 2,650 | 1,365 | 15.4 | 1,311 | 22.1 | 1,259 | 28.8 | 1,206  | 35.5  | 1,151  | 42.2  | 1,090  | 48.9  | 1,058  | 52.2  | 1,023  | 55.6  |
| 7012  | 1,500 | 935   | 10.5 | 866   | 15.6 | 801   | 20.7 | 734    | 25.7  | 665    | 30.8  | 589    | 35.9  |        |       |        |       |
|       | 1,800 | 1,172 | 12.8 | 1,103 | 18.9 | 1,038 | 25.0 | 971    | 31.1  | 902    | 37.2  | 826    | 43.3  | 784    | 46.3  |        |       |
|       | 2,650 | 1,844 | 19.9 | 1,775 | 28.9 | 1,709 | 37.9 | 1,634  | 46.8  | 1,573  | 55.8  | 1,497  | 64.8  | 1,456  | 69.3  | 1,412  | 73.7  |
| 7015  | 1,500 | 1,182 | 13.0 | 1,103 | 19.3 | 1,027 | 25.5 | 951    | 31.8  | 870    | 38.1  | 783    | 44.4  |        |       |        |       |
|       | 1,800 | 1,476 | 15.7 | 1,397 | 23.3 | 1,321 | 30.8 | 1,245  | 38.4  | 1,164  | 46.0  | 1,077  | 53.5  | 1,029  | 57.3  |        |       |
|       | 2,650 | 2,309 | 24.2 | 2,230 | 35.4 | 2,154 | 46.5 | 2,078  | 57.6  | 1,997  | 68.7  | 1,910  | 79.9  | 1,862  | 85.4  | 1,812  | 91.0  |
| 7018  | 1,500 | 1,432 | 15.5 | 1,340 | 23.1 | 1,251 | 30.7 | 1,161  | 38.3  | 1,067  | 45.9  | 964    | 53.4  |        |       |        |       |
|       | 1,800 | 1,786 | 18.8 | 1,694 | 27.9 | 1,605 | 37.0 | 1,515  | 46.1  | 1,421  | 55.2  | 1,318  | 64.3  | 1,262  | 68.9  |        |       |
|       | 2,650 | 2,789 | 28.8 | 2,697 | 42.2 | 2,608 | 55.6 | 2,518  | 69.0  | 2,424  | 82.4  | 2,321  | 95.8  | 2,265  | 102.5 | 2,205  | 109.2 |
| 7023  | 1,500 | 1,847 | 21.8 | 1,732 | 31.5 | 1,622 | 41.2 | 1,510  | 50.9  | 1,393  | 60.6  | 1,266  | 70.3  |        |       |        |       |
|       | 1,800 | 2,300 | 27.4 | 2,185 | 39.0 | 2,075 | 50.6 | 1,963  | 62.3  | 1,846  | 73.9  | 1,719  | 85.6  | 1,650  | 91.4  |        |       |
|       | 2,600 | 3,508 | 45.9 | 3,393 | 62.7 | 3,283 | 79.6 | 3,171  | 96.4  | 3,054  | 113.2 | 2,927  | 130.0 | 2,858  | 138.4 | 2,784  | 146.8 |
| 7028  | 1,500 | 2,258 | 26.9 | 2,121 | 38.7 | 1,989 | 50.5 | 1,855  | 62.4  | 1,715  | 74.2  | 1,563  | 86.0  |        |       |        |       |
|       | 1,800 | 2,810 | 34.0 | 2,673 | 48.2 | 2,541 | 62.4 | 2,407  | 76.5  | 2,267  | 90.7  | 2,115  | 104.9 | 2,032  | 112.0 |        |       |
|       | 2,600 | 4,282 | 57.9 | 4,145 | 78.4 | 4,013 | 98.9 | 3,879  | 119.4 | 3,739  | 139.8 | 3,587  | 160.3 | 3,504  | 170.6 | 3,415  | 180.8 |

Performance based on air at standard conditions: Sea Level, 14.7 PSIA, 68°F Inlet Temperature, 36% Relative Humidity. For performance with gases other than air or at non-standard conditions, contact your Authorized DuroFlow Industrial 70 Series Representative.

For additional information, contact your local representative or

**Gardner Denver Blower Division**

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