



BI-LOBE & TRI-LOBE POSITIVE DISPLACEMENT BLOWERS

# Legend<sup>®</sup> Q Series



It's all about...

# The Legend Q Series



working for your

## APPLICATION



Chemical



Dairy



Milling & Baking

# Over a 150 Years of Proven Results

For applications where noise levels are a primary concern, the Legend Q Series blowers offer real noise reduction solutions, without requiring a complete overhaul of your air handling system. Significant design advantages provide up to 5 dBA reduction when compared to standard straight lobe blowers. With the added flexibility of both Bi-Lobe and Tri-Lobe rotor profiling available, there's a Q Series to fit your application!

- Rigorously tested to meet high performance standards even in the harshest environments
- Significant reductions in sound energy, reducing overall noise levels
- Reliable delivery of clean, oil-free air
- Legendary Warranty
  - 24 months from date of shipment or
  - 18 months from date of install, whichever occurs first

| INDUSTRY               | APPLICATION                                 |
|------------------------|---------------------------------------------|
| Aquaculture            | Aeration                                    |
| Cement & Lime          | Fluidization & Conveying                    |
| Chemical               | Vacuum Processing & Conveying               |
| Coal Bed/Landfill      | Methane Gas Recovery                        |
| Dairy                  | Automated Milking                           |
| Dry Bulk Hauling       | Trailer Unloading & Aeration                |
| Environmental Services | Sewer Cleaning & Portable Restroom Services |
| Industrial             | Material Vacuuming                          |
| Milling & Baking       | Blending & Conveying                        |
| Power Generation       | Fly Ash Conveying & Aeration                |
| Pulp & Paper           | Chip Conveying & Process Vacuum             |
| Resin & Plastic        | Processing & Conveying                      |
| Soil Remediation       | Vacuum Extraction & Sparging                |
| Vacuum Excavation      | Potholing & Slurry Recovery                 |
| Wastewater             | Aeration & Backwashing                      |



Pulp & Paper



Resin & Plastic

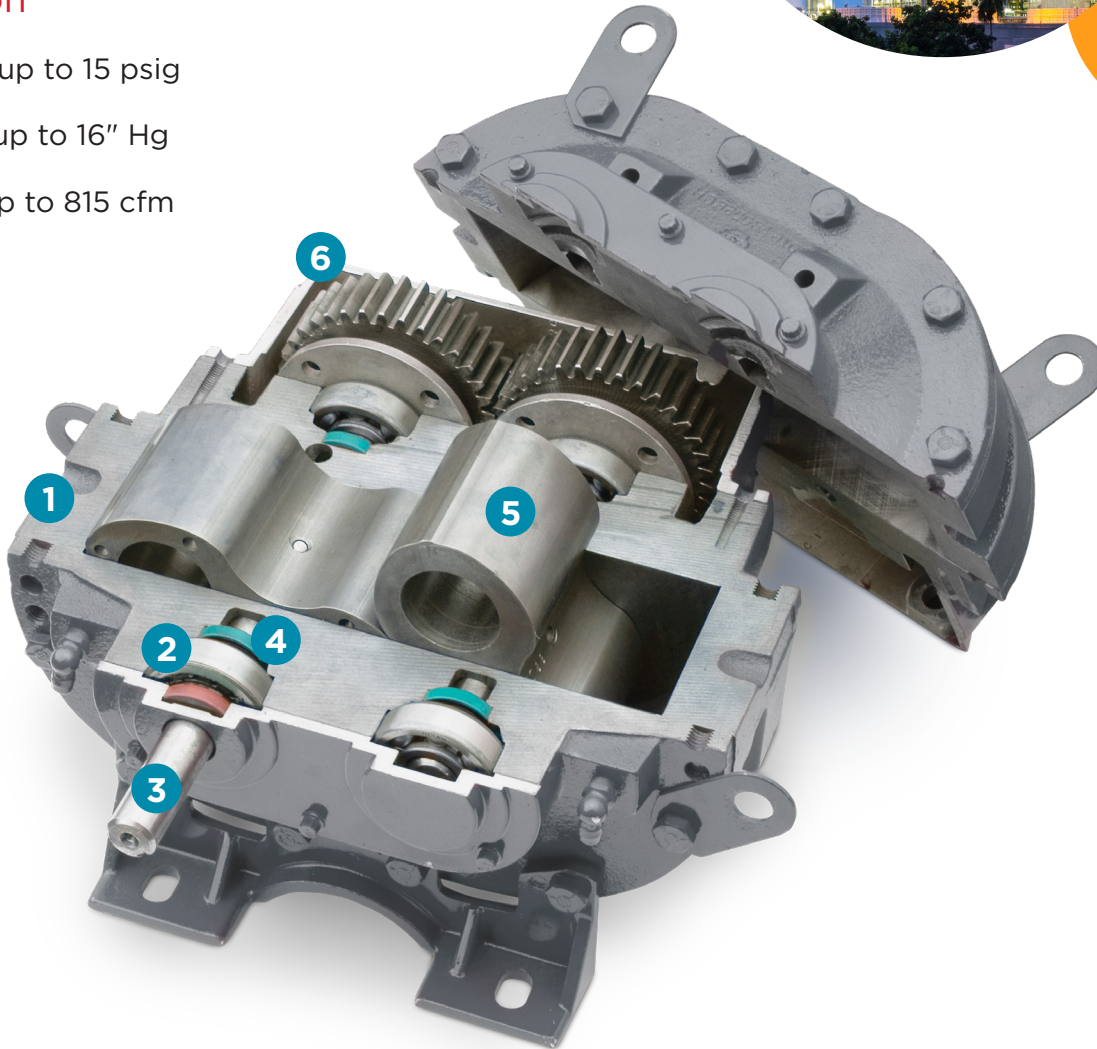


Wastewater

# Legendary Features

## Operation

- Pressure up to 15 psig
- Vacuum up to 16" Hg
- Airflow up to 815 cfm



## Key Features\*

1. High-strength impeller case for reduced vibration and added sound attenuation
2. Heavy duty bearings for increased maintenance intervals
3. High strength drive shaft for increased overhung load capabilities
4. High temperature Viton Oil Seals to maximize seal life during continuous operation
5. Dynamically balanced rotors for smooth operation in any configuration
6. Large sump capacities for cooler running bearings

## Bi-Lobe Sutorbilt Legend Q Series Performance Data

|          | SIZE        | DIA. INLET<br>& OUTLET | DISPL. CU.<br>FT./REV. | RPM   | 7 PSIG |      | 9 PSIG |      | 10 PSIG |      | 12 PSIG |      | 13 PSIG |      | 14 PSIG |      | 15 PSIG |      |
|----------|-------------|------------------------|------------------------|-------|--------|------|--------|------|---------|------|---------|------|---------|------|---------|------|---------|------|
|          |             |                        |                        |       | CFM    | BHP  | CFM    | BHP  | CFM     | BHP  | CFM     | BHP  | CFM     | BHP  | CFM     | BHP  | CFM     | BHP  |
| PRESSURE | 3MQ<br>3MVQ | 2" NPT                 | 0.060                  | 1,760 | 64     | 3.6  | 59     | 4.6  |         |      |         |      |         |      |         |      |         |      |
|          |             |                        |                        | 2,265 | 95     | 4.6  | 89     | 5.8  | 87      | 6.4  |         |      |         |      |         |      |         |      |
|          |             |                        |                        | 2,770 | 125    | 5.5  | 119    | 7.1  | 117     | 7.9  | 112     | 9.5  |         |      |         |      |         |      |
|          |             |                        |                        | 3,600 | 175    | 7.2  | 169    | 9.2  | 167     | 10.2 | 162     | 12.3 |         |      |         |      |         |      |
|          | 4HQ<br>4HVQ | 1½" NPT                | 0.069                  | 1,760 | 80     | 4.0  | 74     | 5.2  | 72      | 5.8  |         |      |         |      |         |      |         |      |
|          |             |                        |                        | 2,190 | 110    | 5.0  | 104    | 6.4  | 102     | 7.2  | 97      | 8.6  |         |      |         |      |         |      |
|          |             |                        |                        | 2,620 | 139    | 6.0  | 134    | 7.7  | 131     | 8.6  | 127     | 10.3 | 124     | 11.1 |         |      |         |      |
|          |             |                        |                        | 3,600 | 207    | 8.2  | 201    | 10.6 | 199     | 11.8 | 194     | 14.1 | 192     | 15.3 | 190     | 16.5 | 188     | 17.7 |
|          | 4MQ<br>4MVQ | 2½" NPT                | 0.117                  | 1,760 | 144    | 6.8  | 136    | 8.8  | 132     | 9.8  |         |      |         |      |         |      |         |      |
|          |             |                        |                        | 2,190 | 194    | 8.5  | 186    | 10.9 | 182     | 12.1 |         |      |         |      |         |      |         |      |
|          |             |                        |                        | 2,620 | 245    | 10.2 | 236    | 13.1 | 233     | 14.5 |         |      |         |      |         |      |         |      |
|          |             |                        |                        | 3,600 | 359    | 14.0 | 351    | 18.0 | 347     | 20.0 |         |      |         |      |         |      |         |      |
|          | 5MQ<br>5MVQ | 4" NPT                 | 0.210                  | 1,500 | 237    | 10.5 | 227    | 13.4 | 222     | 14.9 | 213     | 17.9 | 209     | 19.4 |         |      |         |      |
|          |             |                        |                        | 1,760 | 292    | 12.3 | 281    | 15.8 | 277     | 17.5 | 268     | 21.0 | 263     | 22.8 |         |      |         |      |
|          |             |                        |                        | 2,100 | 363    | 14.6 | 353    | 18.8 | 348     | 20.9 | 339     | 25.1 | 335     | 27.2 |         |      |         |      |
|          |             |                        |                        | 2,850 | 521    | 19.9 | 510    | 25.5 | 506     | 28.4 | 497     | 34.0 | 493     | 36.9 |         |      |         |      |
|          | 6MQ<br>6MVQ | 5" NPT                 | 0.383                  | 1,170 | 332    | 14.9 | 316    | 19.1 | 309     | 21.2 | 296     | 25.5 | 289     | 27.6 | 283     | 29.7 |         |      |
|          |             |                        |                        | 1,760 | 558    | 22.4 | 542    | 28.8 | 535     | 32.0 | 522     | 38.3 | 515     | 41.5 | 509     | 44.7 |         |      |
|          |             |                        |                        | 1,930 | 622    | 24.5 | 607    | 31.5 | 600     | 35.0 | 587     | 42.0 | 580     | 45.5 | 574     | 49.1 |         |      |
|          |             |                        |                        | 2,350 | 784    | 29.9 | 768    | 38.4 | 761     | 42.7 | 748     | 51.2 | 741     | 55.5 | 735     | 59.7 |         |      |

|        | SIZE        | DIA. INLET<br>& OUTLET | DISPL. CU.<br>FT./REV. | RPM   | 6 INHG |      | 10 INHG |      | 12 INHG |      | 14 INHG |      | 15 INHG |      | 16 INHG |      |
|--------|-------------|------------------------|------------------------|-------|--------|------|---------|------|---------|------|---------|------|---------|------|---------|------|
|        |             |                        |                        |       | CFM    | BHP  | CFM     | BHP  | CFM     | BHP  | CFM     | BHP  | CFM     | BHP  | CFM     | BHP  |
| VACUUM | 3MQ<br>3MVQ | 2" NPT                 | 0.060                  | 1,760 | 76     | 1.6  | 63      | 2.6  | 57      | 3.1  |         |      |         |      |         |      |
|        |             |                        |                        | 2,265 | 106    | 2.0  | 93      | 3.3  | 87      | 3.9  |         |      |         |      |         |      |
|        |             |                        |                        | 2,770 | 136    | 2.4  | 124     | 4.0  | 117     | 4.7  | 110     | 5.4  |         |      |         |      |
|        |             |                        |                        | 3,600 | 186    | 3.1  | 174     | 5.0  | 167     | 6.0  | 160     | 7.0  | 156     | 7.5  |         |      |
|        | 4HQ<br>4HVQ | 1½" NPT                | 0.069                  | 1,760 | 91     | 1.7  | 79      | 2.8  | 72      | 3.4  |         |      |         |      |         |      |
|        |             |                        |                        | 2,190 | 121    | 2.1  | 109     | 3.5  | 102     | 4.2  | 95      | 4.9  | 91      | 5.3  |         |      |
|        |             |                        |                        | 2,620 | 151    | 2.5  | 138     | 4.2  | 132     | 5.1  | 124     | 5.9  | 120     | 6.3  |         |      |
|        |             |                        |                        | 3,600 | 218    | 3.5  | 206     | 5.8  | 199     | 6.9  | 192     | 8.1  | 188     | 8.7  | 184     | 9.3  |
|        | 4MQ<br>4MVQ | 2½" NPT                | 0.117                  | 1,760 | 161    | 3.0  | 142     | 4.9  | 132     | 5.8  |         |      |         |      |         |      |
|        |             |                        |                        | 2,190 | 211    | 3.7  | 193     | 6.0  | 183     | 7.2  |         |      |         |      |         |      |
|        |             |                        |                        | 2,620 | 262    | 4.4  | 243     | 7.1  | 233     | 8.6  | 222     | 10.0 |         |      |         |      |
|        |             |                        |                        | 3,600 | 376    | 5.9  | 358     | 9.8  | 348     | 11.8 | 337     | 13.7 | 331     | 14.7 | 325     | 15.7 |
|        | 5MQ<br>5MVQ | 4" NPT                 | 0.210                  | 1,500 | 258    | 4.5  | 235     | 7.3  | 223     | 8.8  | 209     | 10.3 |         |      |         |      |
|        |             |                        |                        | 1,760 | 313    | 5.2  | 290     | 8.6  | 277     | 10.3 | 264     | 12.1 |         |      |         |      |
|        |             |                        |                        | 2,100 | 384    | 6.2  | 361     | 10.3 | 349     | 12.3 | 335     | 14.4 | 328     | 15.4 |         |      |
|        |             |                        |                        | 2,850 | 542    | 8.4  | 519     | 13.9 | 506     | 16.7 | 493     | 19.5 | 485     | 20.9 | 477     | 22.3 |
|        | 6MQ<br>6MVQ | 5" NPT                 | 0.383                  | 1,170 | 363    | 6.3  | 328     | 10.4 | 310     | 12.5 | 290     | 14.6 | 279     | 15.7 | 267     | 16.7 |
|        |             |                        |                        | 1,760 | 589    | 9.4  | 554     | 15.7 | 536     | 18.8 | 516     | 22.0 | 505     | 23.5 | 493     | 25.1 |
|        |             |                        |                        | 1,930 | 655    | 10.3 | 619     | 17.2 | 601     | 20.7 | 581     | 24.1 | 570     | 25.8 | 558     | 27.5 |
|        |             |                        |                        | 2,350 | 815    | 12.6 | 780     | 21.0 | 762     | 25.2 | 741     | 29.3 | 731     | 31.4 | 719     | 33.5 |

Performance based on inlet air at standard temperature of 68° F, an ambient pressure of 14.7 psia and 36% relative humidity.

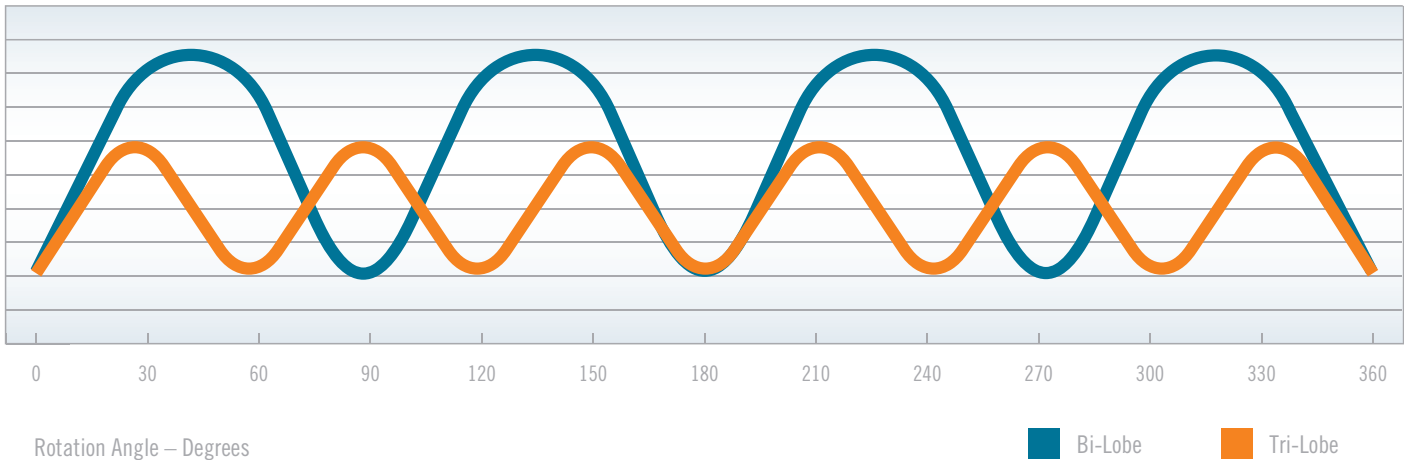
For performance with gasses other than air or at non-standard conditions, contact your authorized Gardner Denver representative.



It's all about...

# Reduced Pulsation

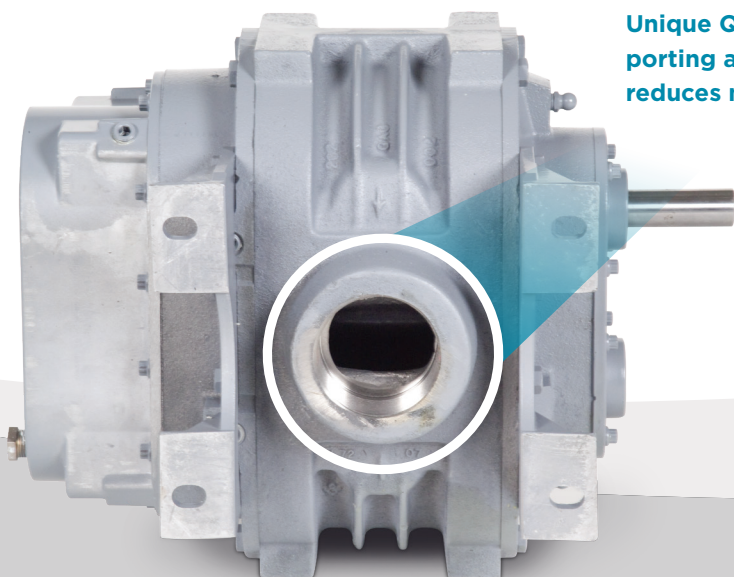
REDUCED PULSE = LOWER NOISE LEVELS = INCREASED EFFICIENCY



## Lower Noise & Quiet Operation

Discharge pulsation is the chief contributor to high noise levels. The Tri-Lobe rotor profile provides a lower pressure pulse compared to similar sized bi-lobe blowers, reducing overall noise levels and offers more consistent flow variation with a smoother rate of transfer, reducing the potential for damage to downstream instrumentation.

- Up to an additional 5dBA reduction compared to Q series Bi-lobe
- Reliable oil-free air delivery
- Unique porting design reduces pulsation resulting in quieter discharge air



**Unique Q-Series  
porting arrangement  
reduces noise levels.**

## Tri-Lobe Sutorbilt Legend Q Series Performance Data

|                 | SIZE        | DIA. INLET<br>& OUTLET | DISPL. CU.<br>FT./REV. | RPM  | 7 PSIG |      | 9 PSIG |      | 10 PSIG |      | 12 PSIG |      | 13 PSIG |      | 14 PSIG |     |
|-----------------|-------------|------------------------|------------------------|------|--------|------|--------|------|---------|------|---------|------|---------|------|---------|-----|
|                 |             |                        |                        |      | CFM    | BHP  | CFM    | BHP  | CFM     | BHP  | CFM     | BHP  | CFM     | BHP  | CFM     | BHP |
| MEDIUM PRESSURE | 3MS<br>3MVS | 2" - S                 | 0.063                  | 1760 | 58     | 3.5  | 50     | 4.4  | 47      | 4.9  |         |      |         |      |         |     |
|                 |             |                        |                        | 2265 | 87     | 4.7  | 80     | 5.8  | 76      | 6.4  |         |      |         |      |         |     |
|                 |             |                        |                        | 2770 | 116    | 5.9  | 108    | 7.4  | 105     | 8.1  | 98      | 9.6  |         |      |         |     |
|                 |             |                        |                        | 3600 | 162    | 8.3  | 154    | 10.2 | 150     | 11.1 | 144     | 13.0 |         |      |         |     |
|                 |             |                        |                        | 4000 | 183    | 9.6  | 175    | 11.6 | 172     | 12.7 | 165     | 14.8 |         |      |         |     |
|                 | 4MS<br>4MVS | 2-1/2" - S             | 0.122                  | 1760 | 129    | 6.7  | 117    | 8.6  | 112     | 9.5  |         |      |         |      |         |     |
|                 |             |                        |                        | 2190 | 178    | 8.6  | 166    | 10.9 | 161     | 12.0 |         |      |         |      |         |     |
|                 |             |                        |                        | 2620 | 226    | 10.8 | 214    | 13.4 | 209     | 14.8 |         |      |         |      |         |     |
|                 |             |                        |                        | 3600 | 332    | 16.5 | 321    | 20.1 | 316     | 21.9 |         |      |         |      |         |     |
|                 | 5MS<br>5MVS | 4" - S                 | 0.210                  | 4000 | 374    | 19.1 | 363    | 23.2 | 358     | 25.2 |         |      |         |      |         |     |
|                 |             |                        |                        | 1500 | 211    | 9.5  | 199    | 12.3 | 193     | 13.7 | 182     | 16.6 |         |      |         |     |
|                 |             |                        |                        | 1760 | 259    | 11.3 | 247    | 14.6 | 241     | 16.3 | 230     | 19.6 | 224     | 21.2 |         |     |
|                 |             |                        |                        | 2100 | 322    | 14.2 | 310    | 18.1 | 304     | 20.0 | 293     | 23.9 | 287     | 25.8 |         |     |
|                 |             |                        |                        | 2850 | 464    | 21.9 | 452    | 27.2 | 446     | 29.8 | 435     | 35.0 | 429     | 37.6 |         |     |
|                 |             |                        |                        | 3200 | 532    | 26.3 | 520    | 32.1 | 514     | 35.1 | 503     | 40.9 | 497     | 43.8 |         |     |

|               | SIZE        | DIA. INLET<br>& OUTLET | DISPL. CU.<br>FT./REV. | RPM  | 6 INHG |      | 10 INHG |      | 12 INHG |      | 14 INHG |      | 15 INHG |      | 16 INHG |     |
|---------------|-------------|------------------------|------------------------|------|--------|------|---------|------|---------|------|---------|------|---------|------|---------|-----|
|               |             |                        |                        |      | CFM    | BHP  | CFM     | BHP  | CFM     | BHP  | CFM     | BHP  | CFM     | BHP  | CFM     | BHP |
| MEDIUM VACUUM | 3MS<br>3MVS | 2" - S                 | 0.063                  | 1760 | 75     | 1.6  | 61      | 2.5  | 52      | 2.9  |         |      |         |      |         |     |
|               |             |                        |                        | 2265 | 104    | 2.2  | 89      | 3.4  | 81      | 3.9  |         |      |         |      |         |     |
|               |             |                        |                        | 2770 | 132    | 2.9  | 118     | 4.3  | 109     | 4.9  | 100     | 5.4  |         |      |         |     |
|               |             |                        |                        | 3600 | 177    | 4.3  | 163     | 6.0  | 154     | 6.8  | 145     | 7.5  |         |      |         |     |
|               |             |                        |                        | 4000 | 198    | 5.0  | 184     | 6.9  | 175     | 7.8  | 166     | 8.7  |         |      |         |     |
|               | 4MS<br>4MVS | 2-1/2" - S             | 0.122                  | 1760 | 156    | 3.2  | 135     | 4.9  | 121     | 5.7  | 105     | 6.2  |         |      |         |     |
|               |             |                        |                        | 2190 | 204    | 4.2  | 184     | 6.2  | 170     | 7.2  | 155     | 8.0  |         |      |         |     |
|               |             |                        |                        | 2620 | 251    | 5.3  | 231     | 7.7  | 218     | 8.9  | 204     | 10.0 |         |      |         |     |
|               |             |                        |                        | 3600 | 352    | 8.4  | 334     | 11.6 | 323     | 13.3 | 310     | 15.0 | 303     | 15.8 |         |     |
|               | 5MS<br>5MVS | 4" - S                 | 0.210                  | 4000 | 391    | 9.9  | 375     | 13.4 | 364     | 15.3 | 352     | 17.2 |         |      |         |     |
|               |             |                        |                        | 1500 | 241    | 4.4  | 217     | 7.4  | 203     | 8.8  | 190     | 9.7  |         |      |         |     |
|               |             |                        |                        | 1760 | 290    | 5.3  | 264     | 8.7  | 250     | 10.3 | 236     | 11.4 | 229     | 11.7 |         |     |
|               |             |                        |                        | 2100 | 353    | 6.8  | 326     | 10.6 | 310     | 12.5 | 295     | 14.0 |         |      |         |     |
|               |             |                        |                        | 2850 | 488    | 10.9 | 458     | 15.7 | 441     | 18.2 | 423     | 20.6 |         |      |         |     |
|               |             |                        |                        | 3200 | 550    | 13.2 | 519     | 18.5 | 501     | 21.3 | 482     | 24.0 |         |      |         |     |

Performance based on inlet air at standard temperature of 68° F, an ambient pressure of 14.7 psia and 36% relative humidity.

For performance with gasses other than air or at non-standard conditions, contact your authorized Gardner Denver representative.



# Genuine Gardner Denver Parts & Lubricants

- Maintain the Gardner Denver performance advantage and reliability with Genuine GD Replacement Parts available through authorized sales and service representatives
- Protect your Gardner Denver investment with AEON® PD, the only lubricant specially formulated for all blowers in any environment
- Available for standard, food grade and extreme duty applications



## **Gardner Denver®**

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