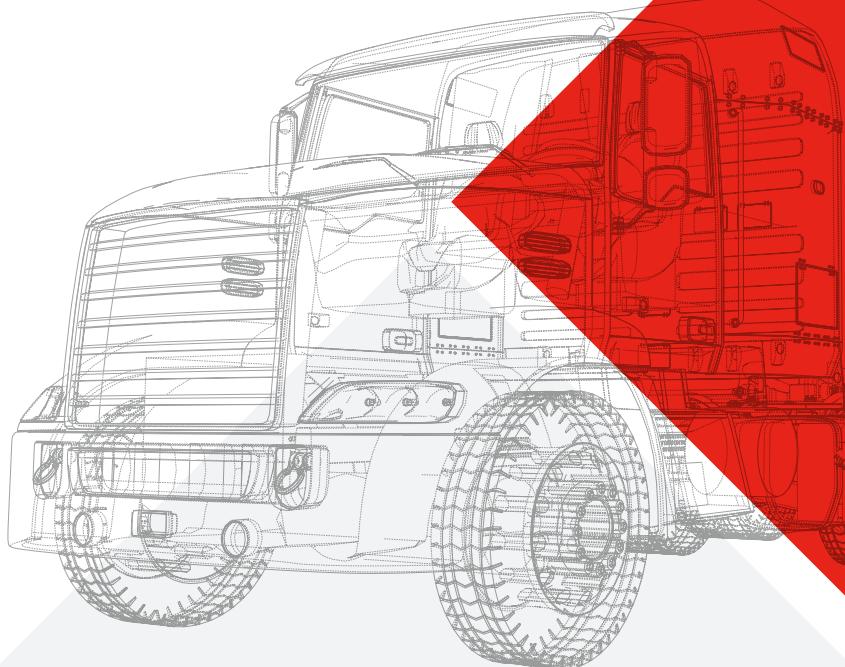




PRESSURE & VACUUM
SOLUTIONS



RB-DV 85-125

VACUUM / PRESSURE OFF-LOADING PACKAGE

Hibon RB-DV 85-125 packages provide proven performance in the 1602 CFM (2722 m³/hr) to 3800 CFM (6456 m³/hr) / 28"hg plug and play system.



**EASY
TO INSTALL**



**BEST
IN CLASS**



**SIMPLE TO
OPERATE & MAINTAIN**

MARKET LEADING THREE-LOBE POSITIVE DISPLACEMENT TECHNOLOGY

Hibon RB-DV 85-125 vacuum blower packages offers design and energy efficient features that can be used in various applications.

This compact vacuum or pressure off-loading package is ideally suited for the rigorous demands of **hydro-excavation, daylighting, industrial vacuuming and grit recycling applications.**

FEATURES

BENEFITS

| | |
|---|---|
| + HIBON RV-DV 85-125 / 3800 CFM - 28"hg THREE-LOBE IMPELLER CONSTRUCTION | Best in class performance delivering more CFM and cooler operation. |
| + SUPPORT FRAME, SILENCER SUPPORTS & LIFTING LUGS | Smaller footprint, more compact, more robust and simple installation. |
| + UNIQUE EXHAUST & AIR INJECTION SILENCERS | Superior attenuation than conventional silencers. |
| + VIBRATION ISOLATION PADS | Prevents vibration transfer between chassis and blower package. |

COMPONENTS

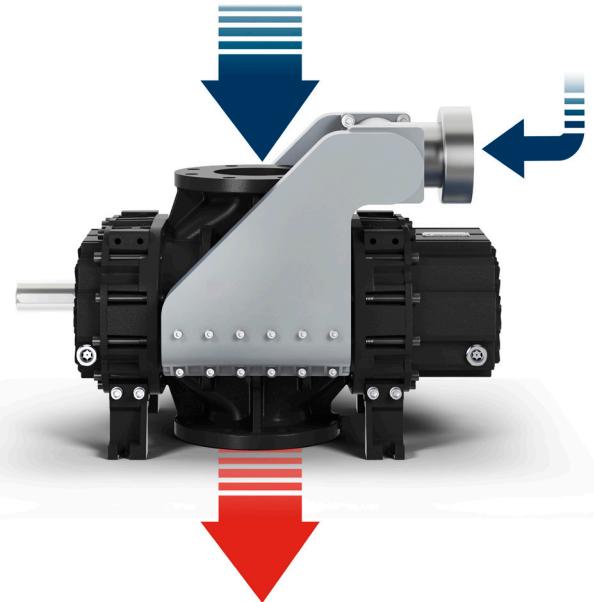
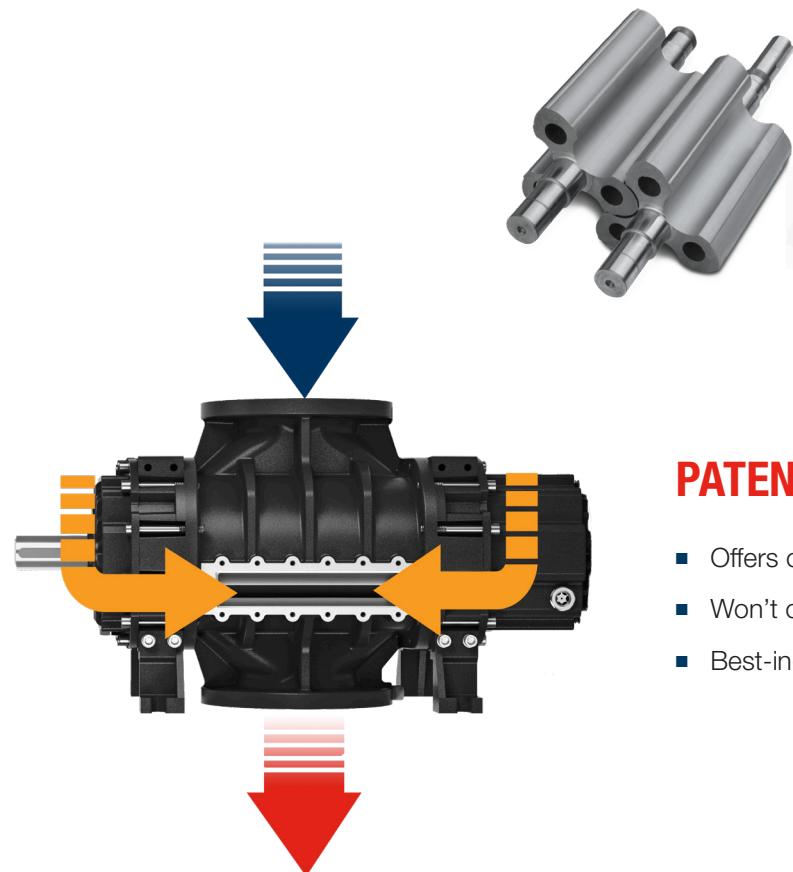
- RB-DV 85-125 Vacuum Blower
- Compact Manifold
- Hibon Pressure Relief Valve NP Series
- Hibon Support Frame
- Vibration Isolation Pads
- Check Valve
- Discharge Silencer
- Vent Hood
- Flexible Connectors
- Air Injection Silencer



RB-DV OPERATING PRINCIPLE

FUEL SAVINGS YOU CAN BANK ON

RB-DV's advanced Tri-Lobe design with patented air injection technology delivers superior fuel efficiency, reducing operating costs and maximizing profitability. Engineered for performance, it's the smart choice for operators who demand power and savings.



PATENTED & UNIQUE AIR INJECTION

- Offers cooler operating temperatures
- Won't overheat on a dead head
- Best-in-class noise reduction

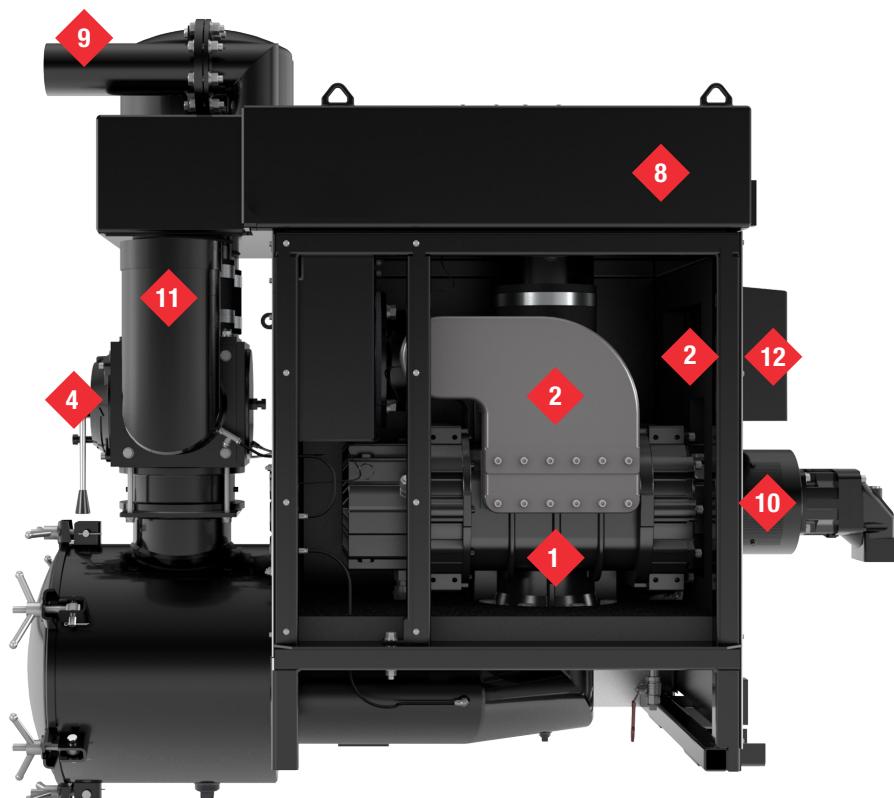
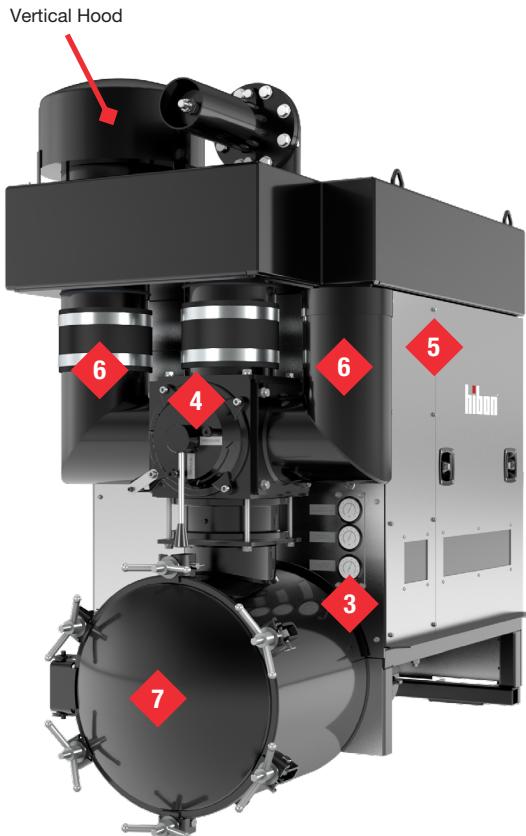


NO CAST-IN MANIFOLDS

- Reduces equipment weight & space
- Easy to install
- Less equipment weight
 - = More loads (load capacity)
 - = More money savings per load!

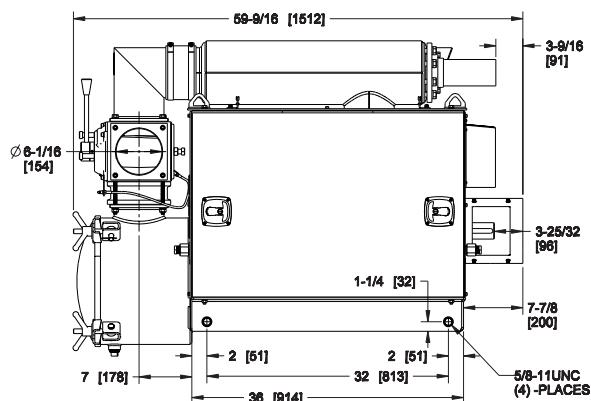
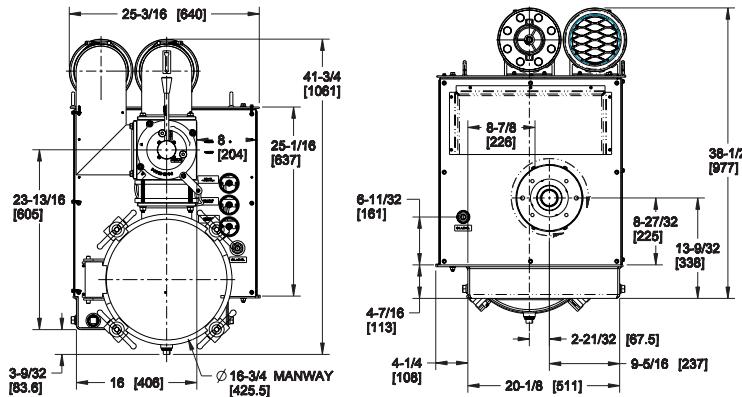
RB-DV 85-125 PACKAGE DESIGN FEATURES

- 1** RB-DV 85-125 INSIDE ENCLOSURE
- 2** COMPACT MANIFOLD AND AIR INJECTION SILENCER INSIDE ENCLOSURE
- 3** INSTRUMENTATION GAUGES AND SWITCHES
- 4** 4-WAY VALVE
- 5** STAINLESS STEEL SOUND ENCLOSURE WITH OIL LEVEL WINDOW OR EXTERNAL SIGHT GLASSES
- 6** ALL NECESSARY PLUMBING AND HARDWARE
- 7** INLET FILTER HOUSING + CARTRIDGE
- 8** DISCHARGE SILENCER
- 9** RELIEF VALVE
- 10** HYDRAULIC ADAPTOR
- 11** VACUUM/PRESSURE CONNECTION TO TANK
- 12** AIR INJECTION INLET COVER



RB-DV 85 PACKAGE AIR INJECTION VACUUM / PRESSURE BLOWER

DIMENSIONS Imperial



PERFORMANCE CHART

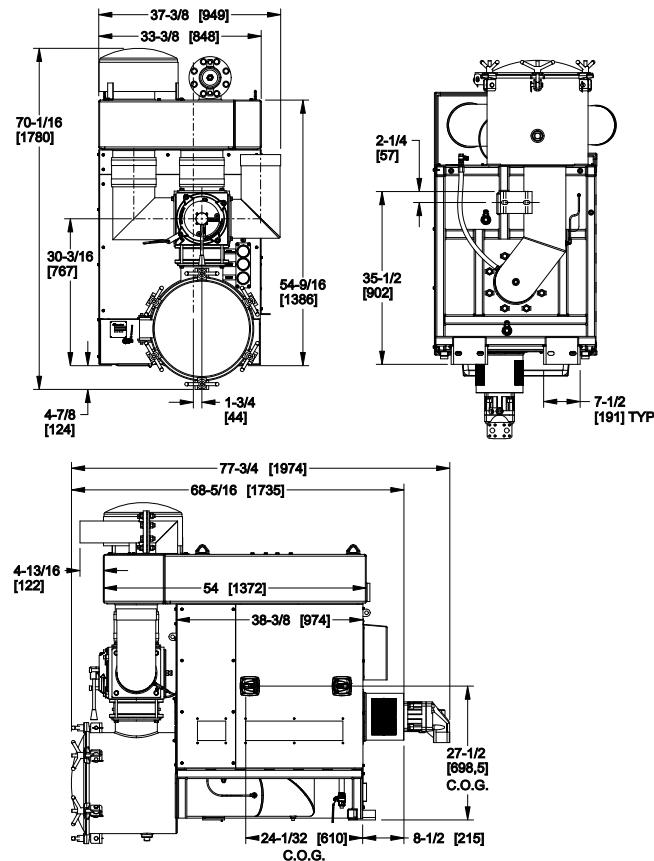
| BLOWER | SPEED RPM | WEIGHT LBS | 30% 9 INHG | | 50% 15 INHG | | 60% 18 INHG | | 70% 21 INHG | | 80% 24 INHG | | 85% 25.5 INHG | | 90% 27 INHG | | 93% 28 INHG | |
|----------|--------------|---------------|------------|------|-------------|------|-------------|------|-------------|------|-------------|------|---------------|------|-------------|-------|-------------|-------|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| QG (CFM) | 1500 | 551.2 | 484 | 12.7 | 424 | 20.8 | 353 | 24.8 | 282 | 28.8 | - | - | - | - | - | - | - | - |
| | 2000 | | 696 | 17.7 | 641 | 28.8 | 529 | 33.5 | 424 | 39.1 | 335 | 44.5 | - | - | - | - | - | - |
| | 2500 | | 908 | 23.2 | 853 | 36.6 | 776 | 43.3 | 647 | 50.0 | 500 | 56.7 | 353 | 60.0 | - | - | - | - |
| | 3000 | | 1119 | 29.6 | 1059 | 45.7 | 953 | 53.6 | 818 | 61.8 | 676 | 69.8 | 529 | 73.8 | * | 80.4 | - | - |
| | 3500 | | 1331 | 36.7 | 1235 | 55.5 | 1200 | 64.3 | 1094 | 74.2 | 935 | 83.6 | 794 | 88.3 | * | 93.0 | - | - |
| | 3800 | | 1458 | 41.5 | 1412 | 61.6 | 1335 | 71.7 | 1200 | 82.3 | 1059 | 92.5 | 918 | 97.6 | * | 102.6 | BO | 105.9 |

* The RB-DV family can operate at vacuum levels up to 93% below atmospheric pressure. Flow values can vary greatly at vacuum levels below 85% atmospheric pressure; please contact customer service for specific flow calculations based on site conditions.

QG = Volume displacement BO = Blank off

RB-DV 105 PACKAGE AIR INJECTION VACUUM / PRESSURE BLOWER

DIMENSIONS Imperial



PERFORMANCE CHART

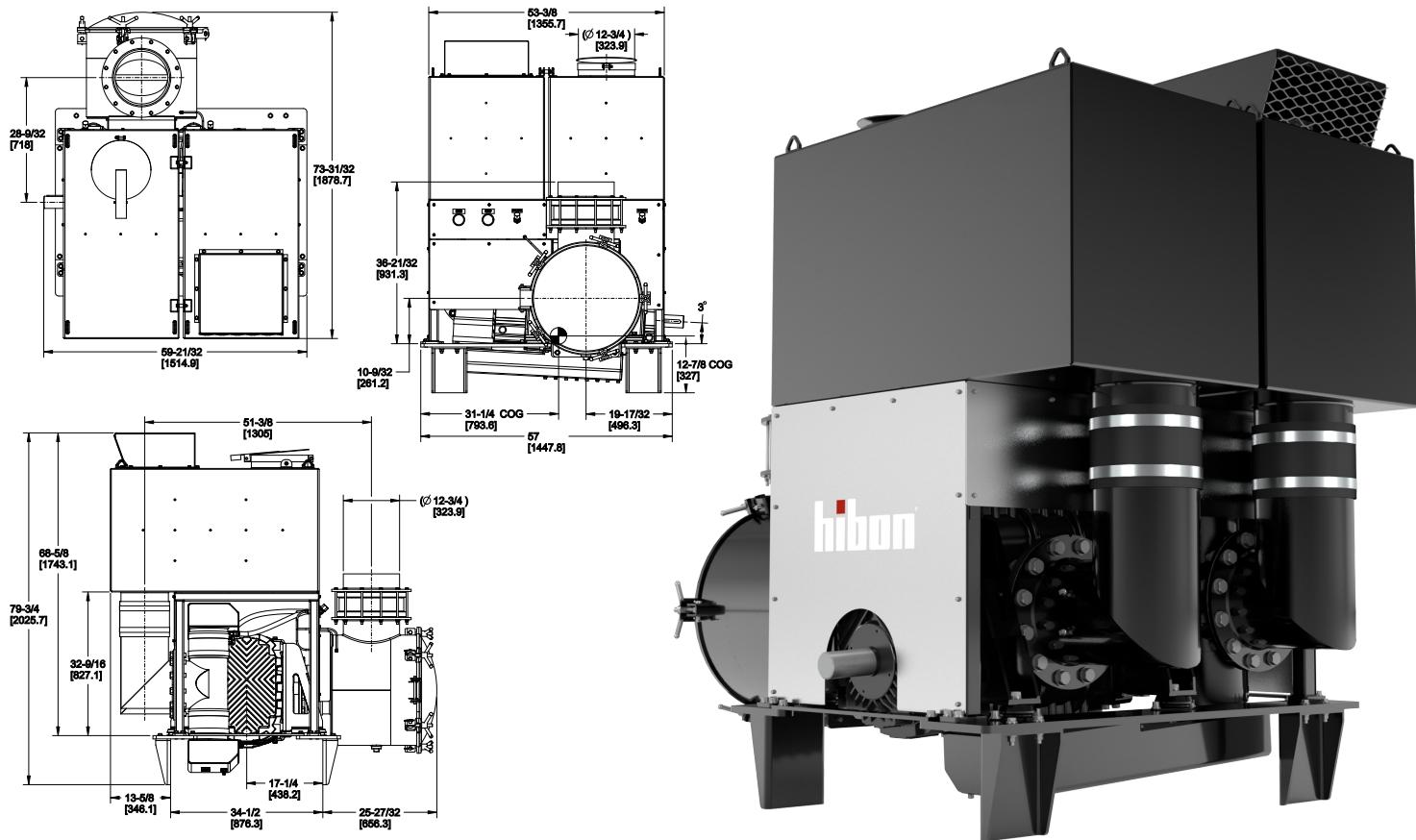
| BLOWER | SPEED RPM | WEIGHT LBS | 30% 9 INHG | | 50% 15 INHG | | 60% 18 INHG | | 70% 21 INHG | | 80% 24 INHG | | 85% 25.5 INHG | | 90% 27 INHG | | 93% 28 INHG | |
|--------|--------------|---------------|------------|------|-------------|------|-------------|-------|-------------|-------|-------------|-------|---------------|-------|-------------|-------|-------------|-------|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 105 | 1500 | 881.8 | 946 | 23.5 | 824 | 37.9 | 765 | 44.6 | 588 | 52.5 | 353 | 59.8 | - | - | - | - | - | - |
| | 1750 | | 1138 | 28.0 | 1012 | 45.0 | 941 | 52.7 | 765 | 61.9 | 529 | 70.5 | 206 | 74.6 | - | - | - | - |
| | 2000 | | 1329 | 32.8 | 1200 | 52.3 | 1118 | 62.0 | 941 | 71.7 | 706 | 81.3 | 382 | 86.3 | - | - | - | - |
| | 2250 | | 1521 | 38.1 | 1388 | 59.9 | 1294 | 70.9 | 1118 | 81.7 | 882 | 92.7 | 559 | 98.2 | * | 104.0 | - | - |
| | 2294 | | 1713 | 43.7 | 1576 | 67.9 | 1471 | 80.1 | 1294 | 92.2 | 1059 | 104.4 | 735 | 110.4 | * | 116.8 | - | - |
| | 2750 | | 1905 | 49.8 | 1765 | 76.5 | 1647 | 89.8 | 1471 | 103.2 | 1235 | 116.6 | 912 | 123.1 | * | 130.4 | - | - |
| | 3000 | | 2096 | 56.3 | 1953 | 85.5 | 1824 | 100.0 | 1647 | 114.6 | 1412 | 129.2 | 1088 | 136.4 | * | 144.5 | BO | 149.3 |

* The RB-DV family can operate at vacuum levels up to 93% below atmospheric pressure. Flow values can vary greatly at vacuum levels below 85% atmospheric pressure; please contact customer service for specific flow calculations based on site conditions.

QG = Volume displacement BO = Blank off

RB-DV 125 PACKAGE AIR INJECTION VACUUM BLOWER

DIMENSIONS Imperial



PERFORMANCE CHART

| BLOWER | SPEED RPM | WEIGHT LBS | 30% 9 INHG | | 50% 15 INHG | | 60% 18 INHG | | 70% 21 INHG | | 80% 24 INHG | | 85% 25.5 INHG | | 90% 27 INHG | | 93% 28 INHG | |
|----------|--------------|---------------|------------|------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|---------------|-------|-------------|-------|-------------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 125 | 1070 | 1334 | 1276 | 31.4 | 1118 | 51.2 | 1000 | 61.1 | 882 | 70.9 | 588 | 80.8 | - | - | - | - | - | - |
| | 1200 | | 1466 | 35.6 | 1294 | 65.3 | 1206 | 69.0 | 1076 | 80.0 | 782 | 91.1 | - | - | - | - | - | - |
| | 1340 | | 1671 | 40.5 | 1512 | 60.3 | 1412 | 77.7 | 1265 | 90.0 | 988 | 102.4 | 488 | 108.7 | - | - | - | - |
| | 1500 | | 1904 | 46.2 | 1747 | 74.0 | 1647 | 87.9 | 1471 | 101.7 | 1224 | 115.6 | 706 | 122.6 | - | - | - | - |
| | 1680 | | 2167 | 53.2 | 2012 | 84.2 | 1912 | 99.7 | 1765 | 115.2 | 1482 | 130.8 | 988 | 138.6 | * | 146.7 | - | - |
| | 1875 | | 2452 | 61.1 | 2294 | 95.8 | 2176 | 113.1 | 2059 | 130.5 | 1765 | 147.8 | 1271 | 156.5 | * | 165.6 | - | - |
| QG (CFM) | 3800 | 2100 | 2781 | 71.0 | 2624 | 109.9 | 2529 | 129.3 | 2382 | 148.7 | 2100 | 168.2 | 1600 | 177.8 | * | 188.3 | - | - |
| | 2200 | | 2927 | 75.7 | 2765 | 116.4 | 2706 | 136.7 | 2529 | 157.0 | 2235 | 177.4 | 1765 | 187.6 | * | 198.6 | - | - |
| | 2400 | | 3219 | 85.6 | 3000 | 130.0 | 2941 | 152.2 | 2765 | 174.5 | 2441 | 196.6 | 1924 | 207.7 | * | 219.8 | - | - |
| | 2600 | | 3511 | 95.5 | 3225 | 143.6 | 3176 | 16.7 | 3001 | 192 | 2647 | 215.8 | 2083 | 227.8 | * | 241 | BO | 247 |

* The RB-DV family can operate at vacuum levels up to 93% below atmospheric pressure. Flow values can vary greatly at vacuum levels below 85% atmospheric pressure; please contact customer service for specific flow calculations based on site conditions.

QG = Volume displacement BO = Blank off

AVAILABLE SPARE PARTS:

BEARINGS, PISTON
RINGS & SHAFT SEALS



GASKETS & SIGHT GLASS



HIBON LUBE 1L/QUART



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 **Ingersoll Rand**