



hibon®

Introducing New VS package Vacuum Truck Blowers Package with Patented Venturi Pre-Injection System

Hibon Ingersoll Rand presents new state-of-the-art sound reduction technology integrated in a complete plug and play system. The V-series air-injected, high-vacuum blowers offer a wide range of design features and incorporate energy efficiency improvements, complying with the strictest operational requirements of a variety of applications. These compact pressure and vacuum package are ideally suited for the rigorous demand of the vacuum truck market. Hibon is a worldwide leader in three-lobe positive displacement blower technology with thousands of units installed around the globe.

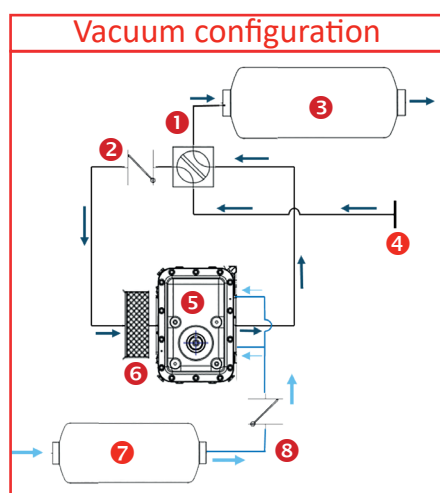
Characteristics

- Sound reduction up to 12 dBA
- Compact plug and play system
- Three-lobe impeller construction with dual air injection system for a vacuum up to 96%
- Clearances adjusted automatically during assembly
- Larger oil capacity
- High performance sealing arrangement using 4 piston rings

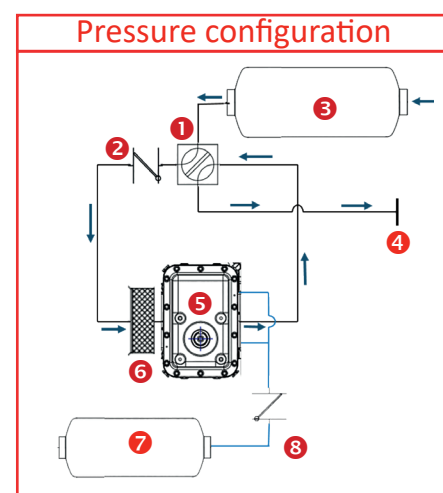
Benefits

- Quieter operation
- Easier to install on the truck frame
- No oil or water cooling system (100% oil free air)
- Easier maintenance
- Runs cooler
- Better lubrication of bearings
- Less frequent oil changes

Technical scope for Truck Package

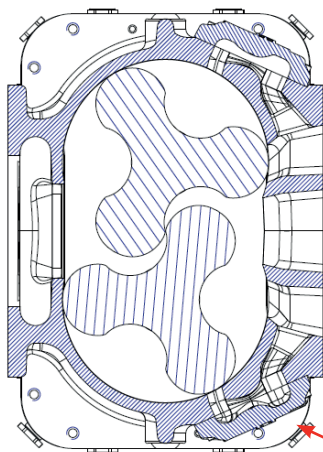


| Item | |
|------|-----------------------------|
| 1 | Four-way valve |
| 2 | Check valve |
| 3 | Silencer |
| 4 | Truck tank |
| 5 | VTB 820 VS |
| 6 | Filter |
| 7 | Silencer cool air injection |
| 8 | Check valve |



New sound reduction technology without compromise !

New VS package



Patented Venturi Pre-Injection System

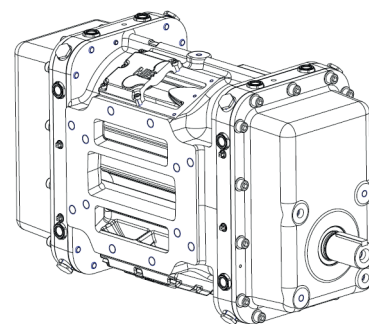
Operating principle

The direct injection of the VTB.XL Series is the most efficient solution to cool the blower. This machine can work even with closed valve at suction side (Inlet blanked off).

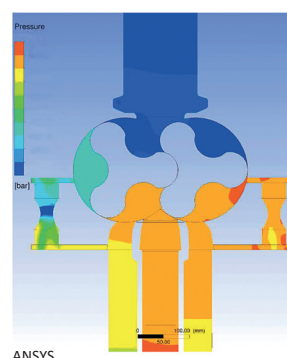
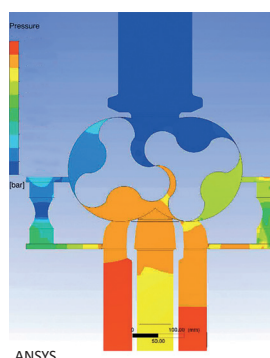
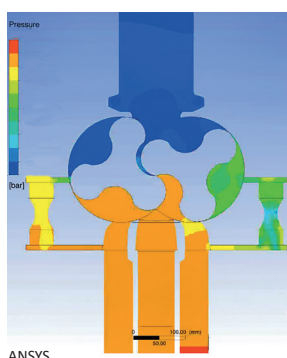
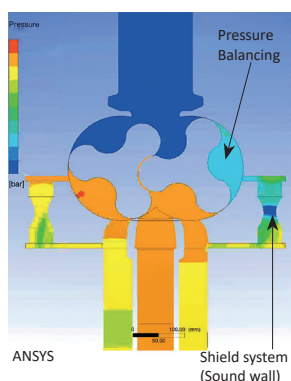
To gain a new level of efficiency, our renowned noise cancelling technology is engineered to keep the pulsation inside the blower for generating a sound wall.

This new dual air injection technology keeps the advantage of direct air injection and improves noise level.

New dual air injection technology



Flow mechanical study of the Venturi system



Performance chart

VOLUME DISPLACEMENT (2822 m³/h)*

| Speed (tr/min) | 30% Vacuum | | 40% Vacuum | | 50% Vacuum | | 60% Vacuum | | 70% Vacuum | | 80% Vacuum | | 90% Vacuum | |
|----------------|-------------------|----|-------------------|----|-------------------|----|-------------------|----|-------------------|----|-------------------|----|-------------------|----|
| RPM | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW |
| 2200 | 1333 | 17 | 1297 | 21 | 1237 | 26 | 1143 | 30 | 1032 | 34 | 858 | 36 | 258 | 40 |
| 2600 | 1611 | 20 | 1576 | 25 | 1520 | 31 | 1433 | 36 | 1322 | 40 | 1160 | 43 | 493 | 47 |
| 2800 | 1750 | 22 | 1715 | 27 | 1661 | 33 | 1577 | 39 | 1467 | 43 | 1311 | 47 | 611 | 51 |
| 3000 | 1888 | 23 | 1854 | 29 | 1802 | 36 | 1722 | 41 | 1613 | 46 | 1463 | 50 | 729 | 55 |
| 3200 | 2027 | 25 | 1993 | 31 | 1943 | 38 | 1867 | 44 | 1758 | 50 | 1614 | 54 | 846 | 59 |
| 3400 | 2166 | 27 | 2132 | 34 | 2085 | 41 | 2012 | 47 | 1903 | 53 | 1765 | 58 | 964 | 63 |
| 3600 | 2304 | 29 | 2272 | 36 | 2226 | 44 | 2156 | 50 | 2048 | 56 | 1916 | 62 | 1082 | 67 |
| 3800 | 2443 | 31 | 2411 | 39 | 2367 | 46 | 2301 | 52 | 2193 | 60 | 2067 | 65 | - | - |

* Volume displacement at maximum speed.

Slim Solution, Plug and Play, Service Friendly for End-User!

New VS Package



Technical scope

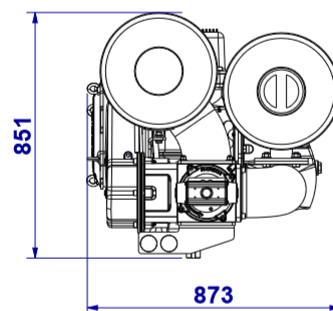
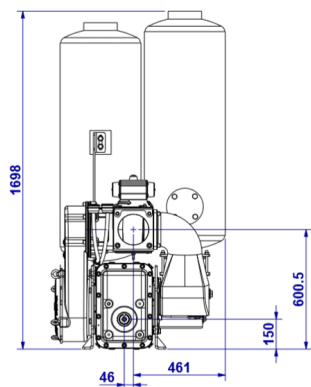
| Item | |
|------|---|
| 1 | Four-way valve (pneumatic or manual) |
| 2 | Filling system oil |
| 3 | Silencer Inlet/Outlet (Optionnal) |
| 4 | "By-pass system" |
| 5 | VTB 820 VS |
| 6 | Filter holder integrated into the package |
| 7 | Silencer Cool Air Injection (Optionnal) |

Benefits

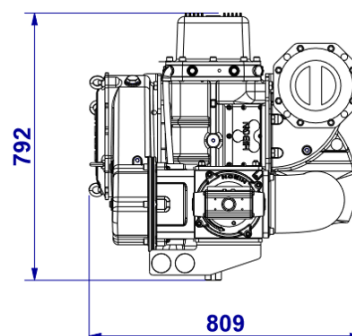
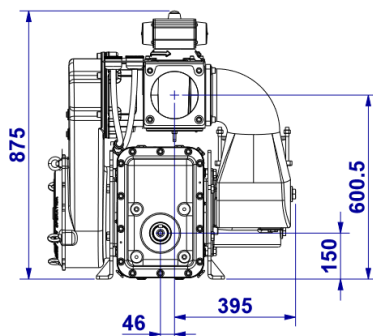
| Feature | | Customer value |
|---------|---|---|
| ✓ | Plug-n-Play | Simplifies assembly and reduces sourcing. Simply mount package to truck frame, plumb to tank or secondary shut-off / cyclone, and connect it to PTO or hydraulic motor. |
| ✓ | Reduced Size | Compact design allows for a better fit either behind the cab or mounted on the frame. |
| ✓ | External oil filling system | Easier for maintenance. |
| ✓ | Hibon 4-Way Valve | With 50% less pressure drop than the competition, the result is a more efficient and cooler operation, providing improved pressure/vacuum performance and increased blower life through less restriction in air flow. |
| ✓ | Welding flange | Allows easy connection between truck tank and four-way valve. |
| ✓ | Flange DN 65 on Silencer Cool Air Injection | Allows "tank breaker system" through silencer for quieter operation. |
| ✓ | Additional stitching points for sensors | Possibility to add two temperature sensors. |

Dimensions

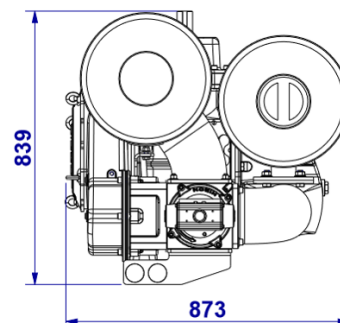
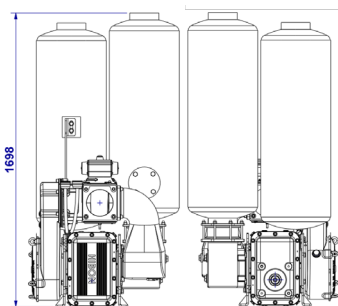
Truck Package VTB820 BS CCW SS



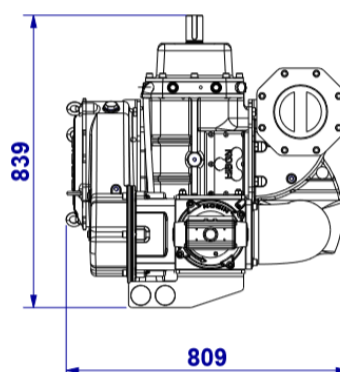
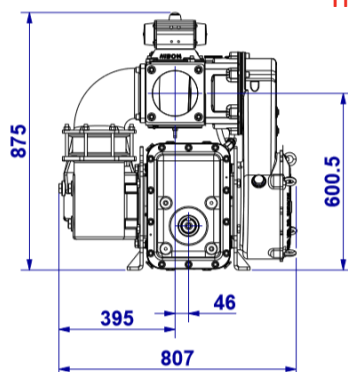
Truck Package VTB820 BS CCW



Truck Package VTB820 BS CW SS



Truck Package VTB820 BS CW



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