

NEW VS PACKAGE AIR COOLED HIGH VACUUM BLOWERS

WITH PATENTED **VENTURI**
PRE-INJECTION SYSTEM ENGINEERING

Hibon Ingersoll Rand's new blowers package provides state-of-the-art sound reduction technology in a complete plug & play system solution.



MARKET LEADING **THREE-LOBE POSITIVE** DISPLACEMENT BLOWER TECHNOLOGY

VS packages air cooled, high-vacuum blowers offer a wide range of design features and incorporate energy efficiency improvements that comply with the strictest operational requirements of a wide range of applications.

This compact pressure and vacuum package is ideally suited for the rigorous demand of the vacuum truck market.



PACKAGE FEATURES

- + 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

PRODUCT 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

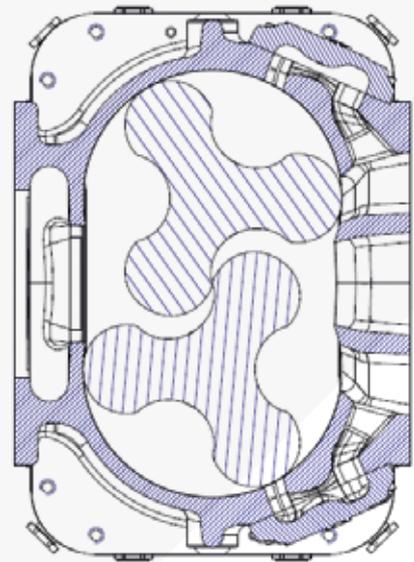
- + LESS FREQUENT OIL CHANGES**

THE NEW VS SERIES PACKAGE WITH VENTURI PRE-INJECTION TECHNOLOGY

PROVIDING ADVANCED SOUND REDUCTION
PERFORMANCE WITHOUT COMPROMISE

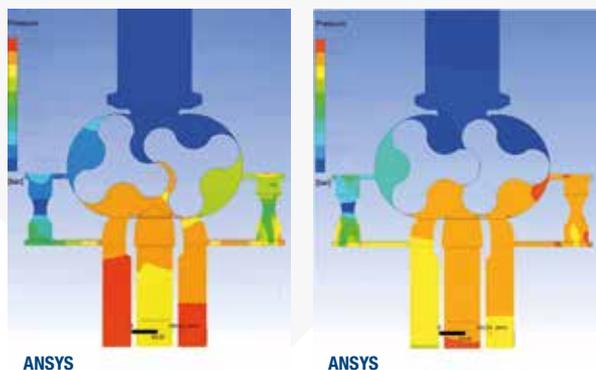
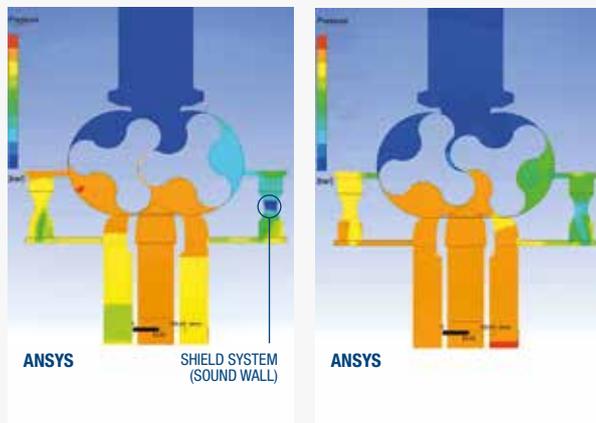
To gain a new level of efficiency, our renowned noise cancelling technology is engineered to keep the pulsation inside the blower for generating a sound wall.

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



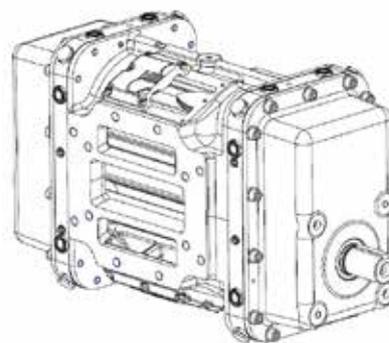
NEW DUAL AIR
INJECTION TECHNOLOGY

VENTURI SYSTEM FLOW MECHANICS



THE NEW VS PACKAGE

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



SLIM PLUG & PLAY SOLUTION

EASY TO INSTALL & MAINTAIN



- 1** 4-WAY VALVE
(PNEUMATIC OR MANUAL)
- 2** OIL FILLING SYSTEM
- 3** SILENCER INLET/OUTLET
(OPTIONAL)
- 4** BY PASS SYSTEM
FOR FRESH AIR
- 5** VTB 820 VS
- 6** FILTER HOLDER INTEGRATED
INTO THE PACKAGE
- 7** SILENCER COOL AIR
INJECTION (OPTIONAL)

PRODUCT BENEFITS

FEATURE

CUSTOMER VALUE

+ PLUG & 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

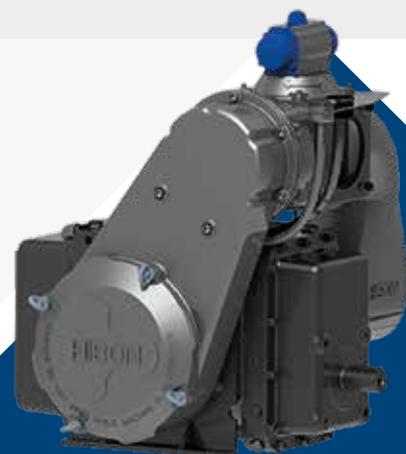
Allows easy connection between truck tank and four-way valve.

+ FLANGE DN65 ON SILENCER TO COOL AIR INJECTION

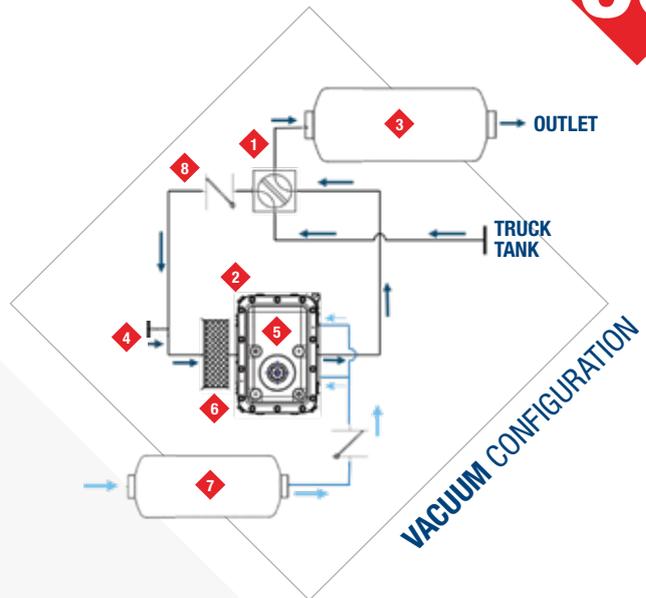
Enables a 'tank breaker system' through the silencer for quieter operation.

+ ADDITIONAL STITCHING POINTS FOR SENSORS

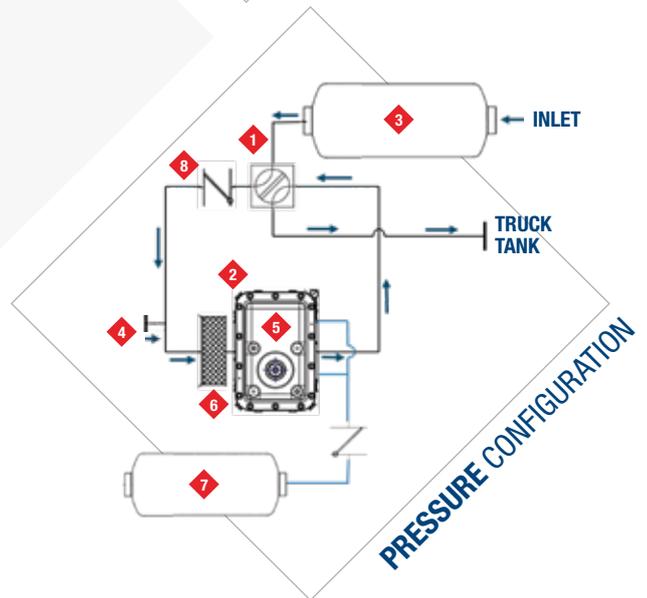
Possibility to add two temperature sensors.



TRUCK PACKAGE, SCOPE & PERFORMANCE



VACUUM CONFIGURATION



PRESSURE CONFIGURATION

- 1** 4-WAY VALVE
- 2** OIL FILING SYSTEM
- 3** SILENCER
- 4** BY PASS SYSTEM FOR FRESH AIR
- 5** VTB 820 VS
- 6** FILTER
- 7** SILENCER COOL AIR INJECTION
- 8** CHECK VALVE

PERFORMANCE

VOLUME DISPLACEMENT (2822 m ³ /h)*															
SPEED (TR/MIN)	30% VACUUM		40% VACUUM		50% VACUUM		60% VACUUM		70% VACUUM		80% VACUUM		90% VACUUM		
	m ³ /h	kW													
RPM															
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.



TRUCK PACKAGE, CONFIGURATION

TRUCK PACKAGE VTB 820 : BS : CCW : P : B

VACUUM PUMP **VTB 820**

SHAFT CONFIGURATION

BS BOTTOM SHAFT **TS** TOP SHAFT

ROTATION

CW CLOCKWISE **CCW** COUNTER CLOCKWISE

4-WAY VALVE OPTIONS

P PNEUMATIC **M** MANUAL

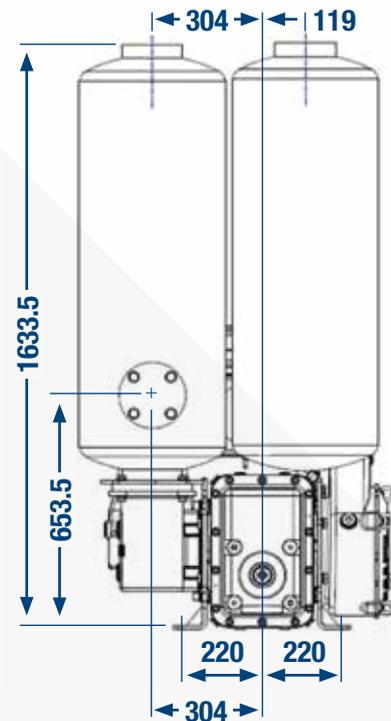
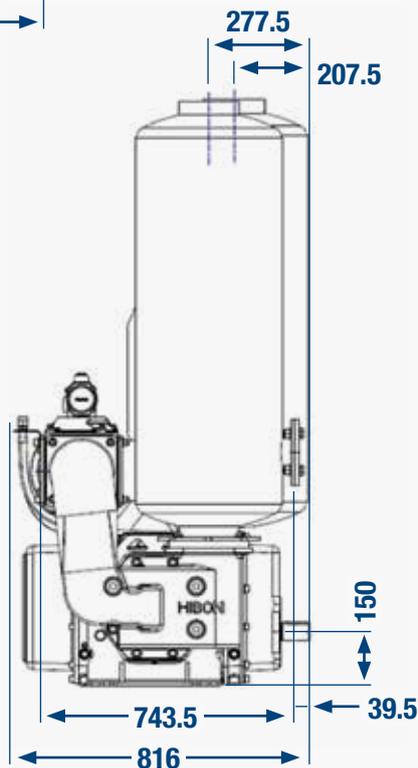
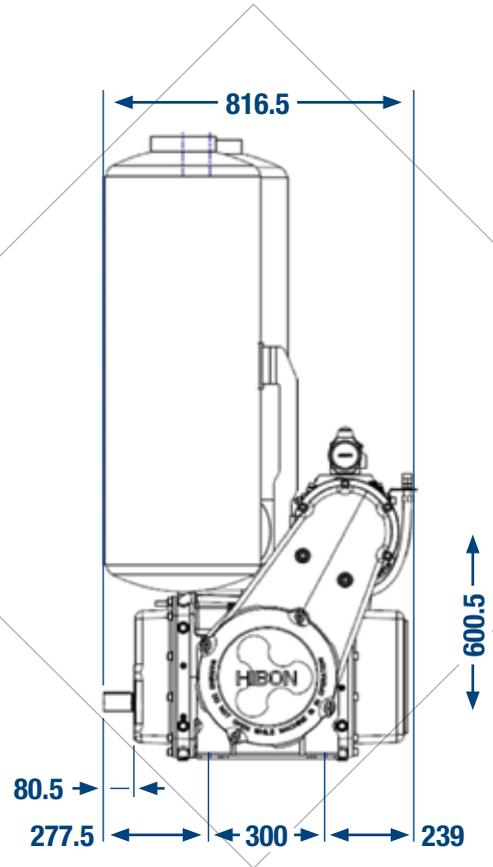
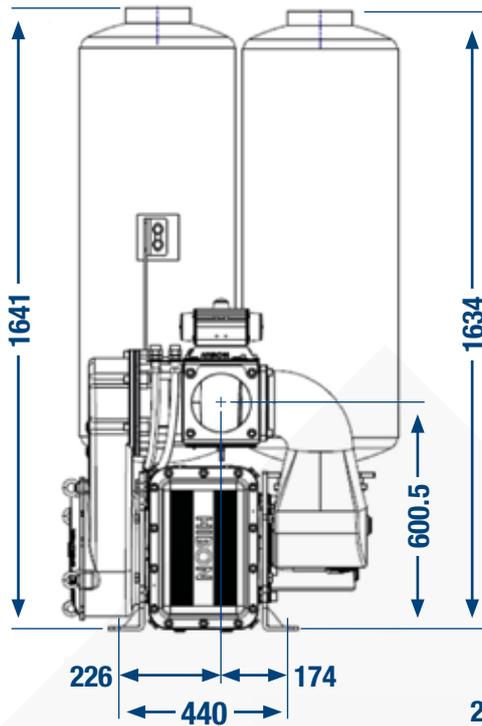
SILENCER OPTIONS

N NONE (WITHOUT SILENCER) **S** INLET / OUTLET SILENCER ONLY
I COOL AIR INJECTION SILENCER ONLY **B** BOTH SILENCER

DIMENSIONS (mm)

TRUCK PACKAGE **VTB 820 BS CW PB**

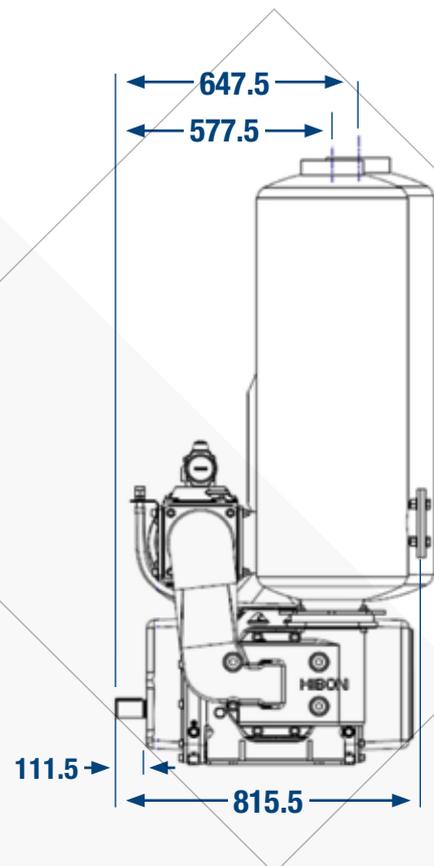
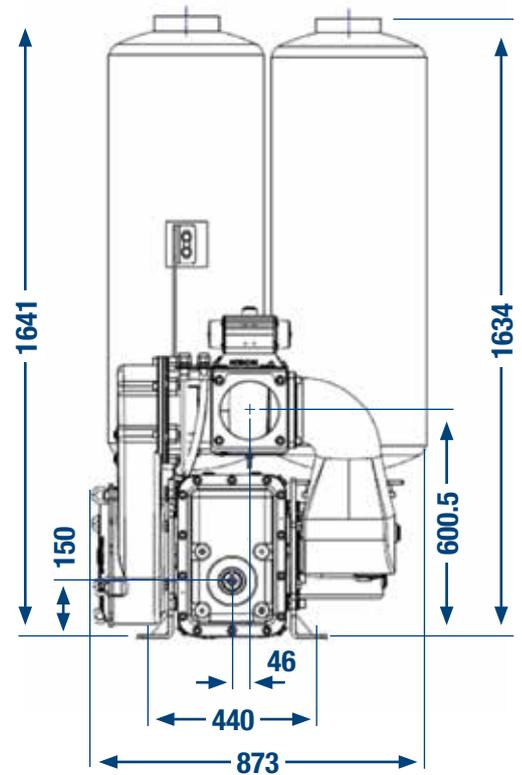
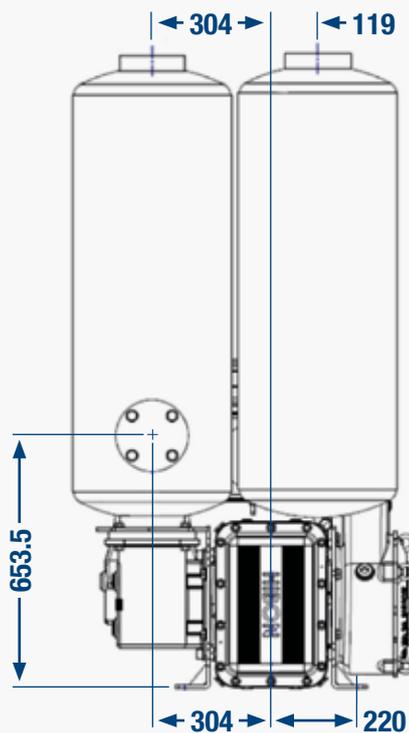
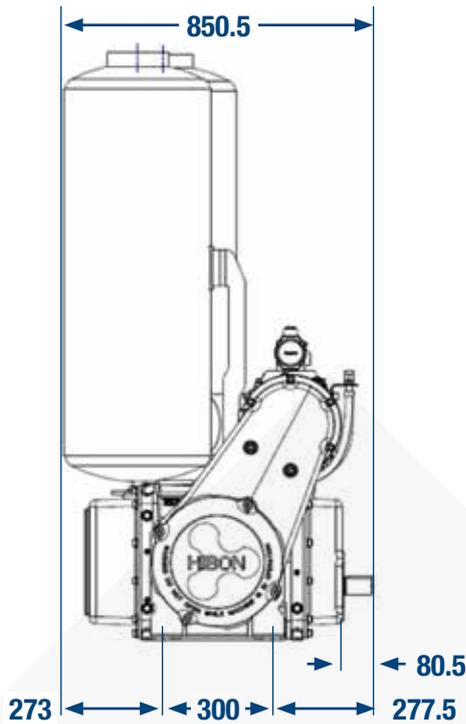
For TS configuration, dimensions are identical except for the height of the shaft.
For more size diagrams, please contact the factory or the sales service team.



DIMENSIONS (mm)

TRUCK PACKAGE **VTB 820 BS CCW PB**

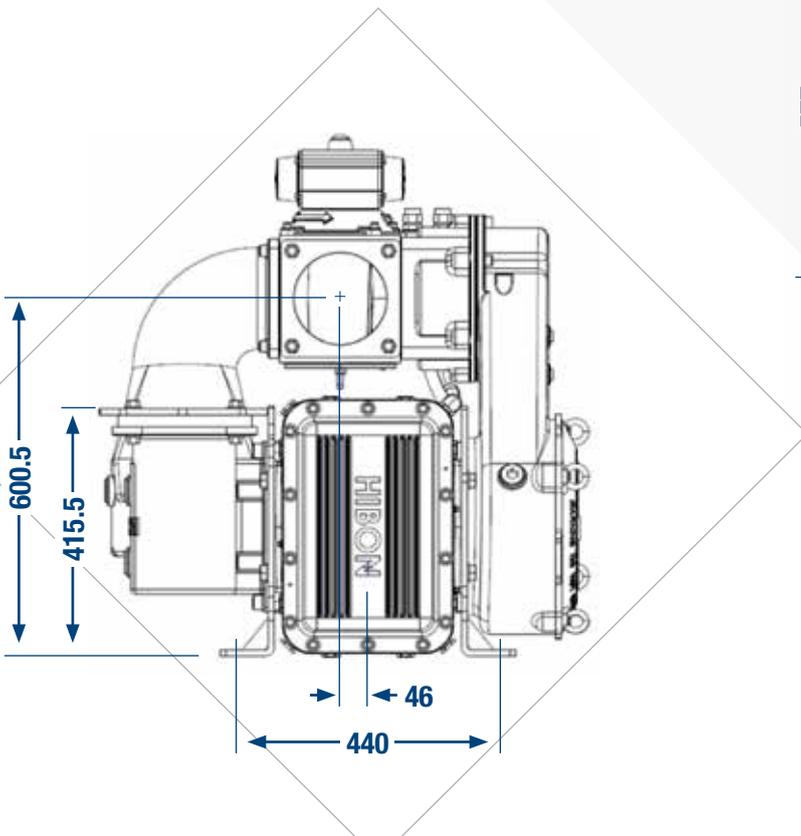
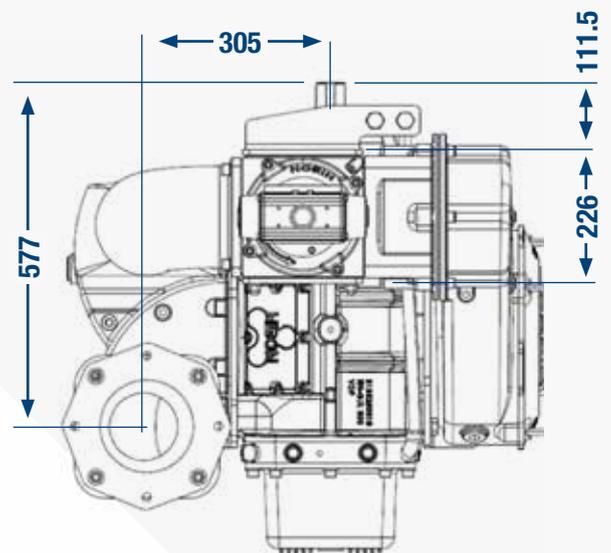
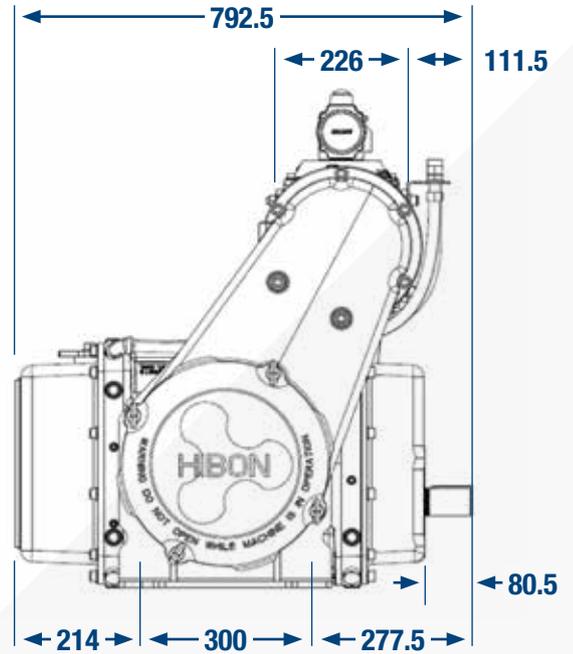
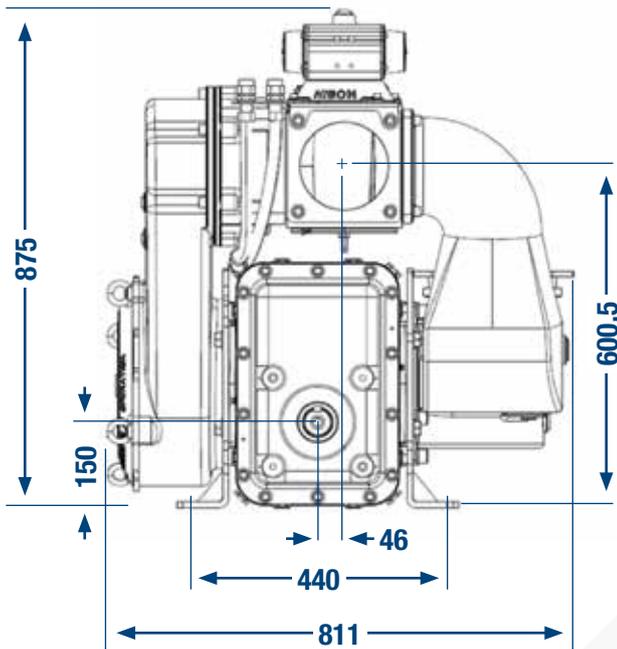
For TS configuration, dimensions are identical except for the height of the shaft.
For more size diagrams, please contact the factory or the sales service team.



DIMENSIONS (mm)

TRUCK PACKAGE **VTB 820 TS CCW PN**

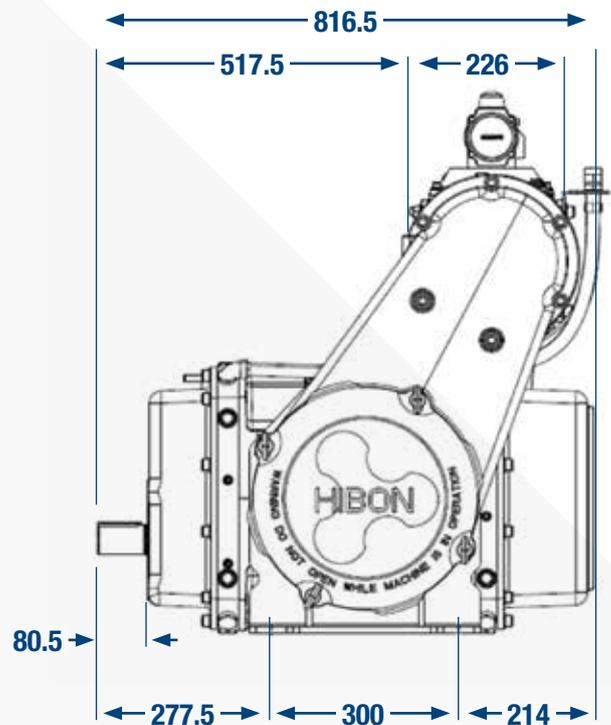
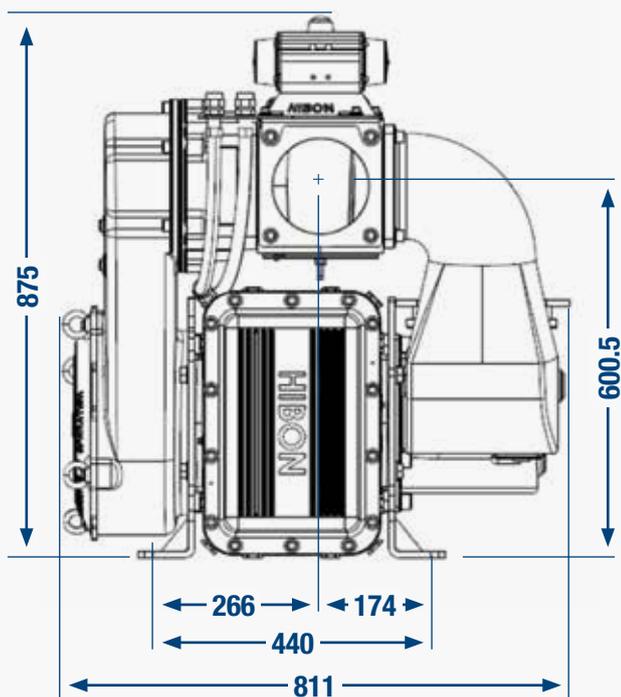
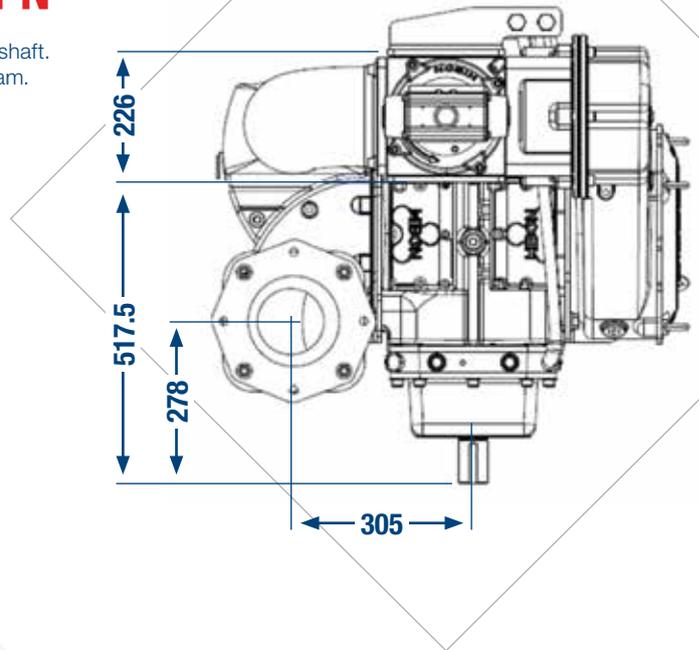
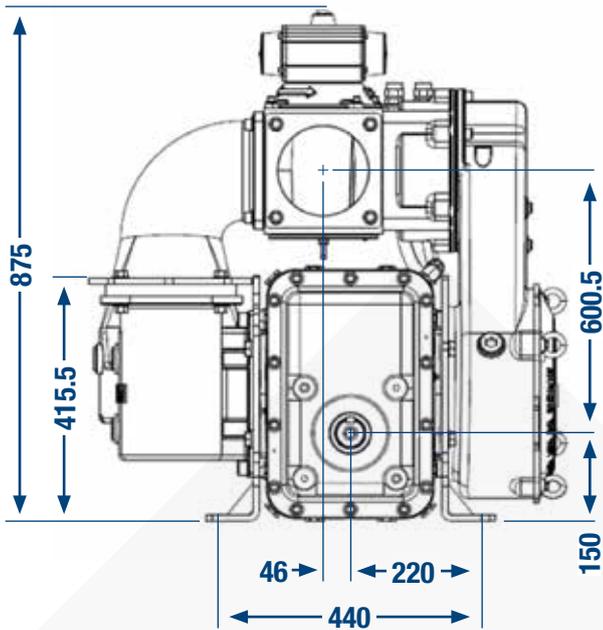
For TS configuration, dimensions are identical except for the height of the shaft.
For more size diagrams, please contact the factory or the sales service team.



DIMENSIONS (mm)

TRUCK PACKAGE **VTB 820 BS CW PN**

For TS configuration, dimensions are identical except for the height of the shaft.
For more size diagrams, please contact the factory or the sales service team.





hibon®

www.hibon.com

**INGERSOLL RAND AIR
SOLUTIONS HIBON®**

2 avenue Jean-Paul Sartre,
59290 Wasquehal
France

T: +33 (0)3 20 45 39 39

E: hibon@irco.com

www.ingersollrand.com
www.hibon.com

**COMPRESSED AIR SYSTEMS
AND SERVICES HIBON INC**

100 Voyageur
Pointe Claire Quebec,
Canada
H9R 6A8

T: +1 514 631-3501

F: +1 877 584 0307

www.hibon.com

Ingersoll Rand Inc. (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to helping make life better for our employees, customers and communities. Customers lean on us for our technology-driven excellence in mission-critical flow creation and industrial solutions across 40+ respected brands where our products and services excel in the most complex and harsh conditions. Our employees develop customers for life through their daily commitment to expertise, productivity and efficiency. For more information, visit www.IRCO.com.

