



Multistage Centrifugal Blower

100 Performer series

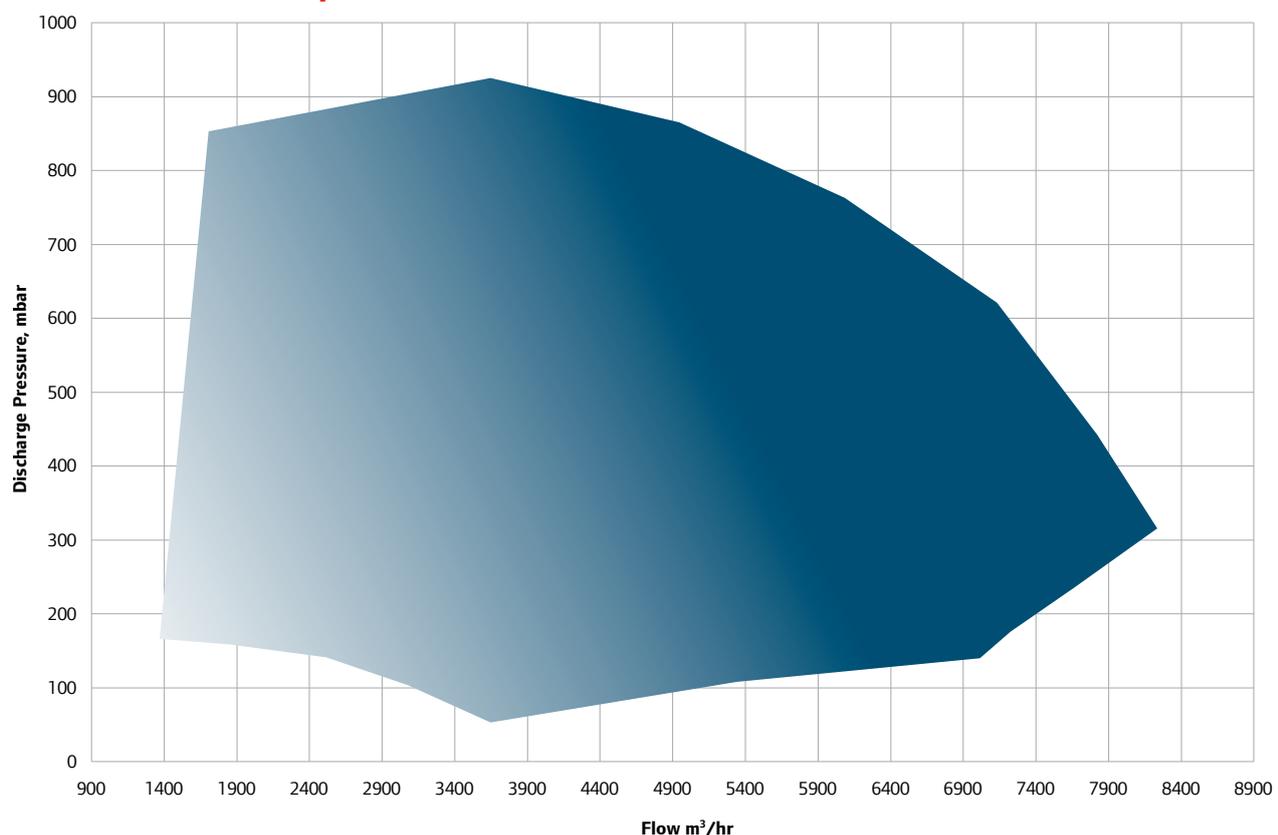
Hibon Ingersoll Rand presents new state-of-the-art technology in Multistage Centrifugal Blowers. This model offers a wide range of design features and incorporates energy efficiency improvements, complying with the strictest operational requirements of a variety of applications. Multistage blowers are ideally suited for operations where a variable flow at constant pressure is required. Hibon is a worldwide leader in Multistage Centrifugal Blower technology with thousands of units installed around the globe.

Technical Data

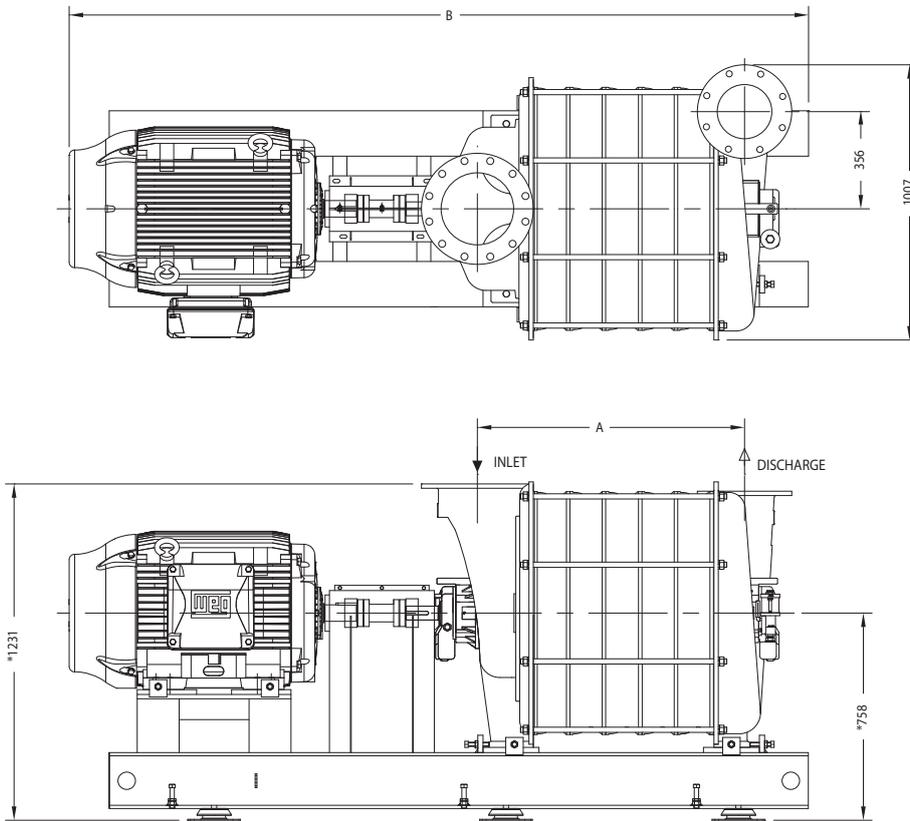
- Number of stages: 1 through 8
- Inlet connection: 254 mm, Flange ANSI 125# drilling
- Outlet connection: 203 mm, Flange ANSI 125# drilling
- Operating speed: up to 4300 RPM
- Shaft seals: Carbon rings
- Bearings: Long life, balls, single row, AFBMA B-10 std
- Lubrication: Oil
- Max casing pressure: 1.7 bar
- Impeller diameter: 609.6 mm
- Impeller tip speed: 114 m/s at 3570 RPM
- Drive: Direct or gear increaser, V-Belt
- Shaft end: 50.8 mm / square key 13 mm
- Rotor balance: Each impeller & complete rotating assemblies are dynamically balanced as per ISO G2.5
- Casing drainage: 1/4" NPT (heads & sections)
- Cooling: Fan (if needed)
- Jacking bolts: Standard for motor and blower alignment
- Machine mounting pads: Standard for blower and motor
- Impeller eye seal: Radial labyrinth type for improved efficiency

Performance Air Map

(Based on Inlet Conditions at 20°C, 1013 mbar and 36% RH)



Dimensional Data:



Materials of construction

- Casing: Cast Iron ASTM A48 class 30B
- Bearing housing: Cast Iron ASTM A48 class 30B
- Tie rods: High strength carbon steel ASTM A193-B7
- Section seals (O-rings): Fluorocarbon
- Shaft: Steel AISI 1045 (Std) or Stainless (Option)
- Impellers: Cast Aluminum
- Baffle rings: Stainless steel 304
- Base: Structural steel

MODEL	A	B	ROTOR WK ²	Wt. (Blower only)
	mm	mm	kg. m ²	kg
100.02	452	Consult factory	1.180	591
100.03	581		1.559	773
100.04	711		2.023	955
100.05	841		2.528	1136
100.06	971		2.992	1318
100.07	1101		3.498	1500
100.08	1230		4.003	1727

Values in the table and on the drawing are approximate.
* The package height might change slightly due to the vibration isolator selection.

hibon[®]Lube



Use Hibon Lube regularly in your blowers to insure optimum performance and maximum life.

Each 1 Liter bottle of Hibon Lube is furnished with convenient peel-off labels that can be used as reminders for the next oil change.



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