HOFFMAN LAMSON®
An Ingersoll Rand Business

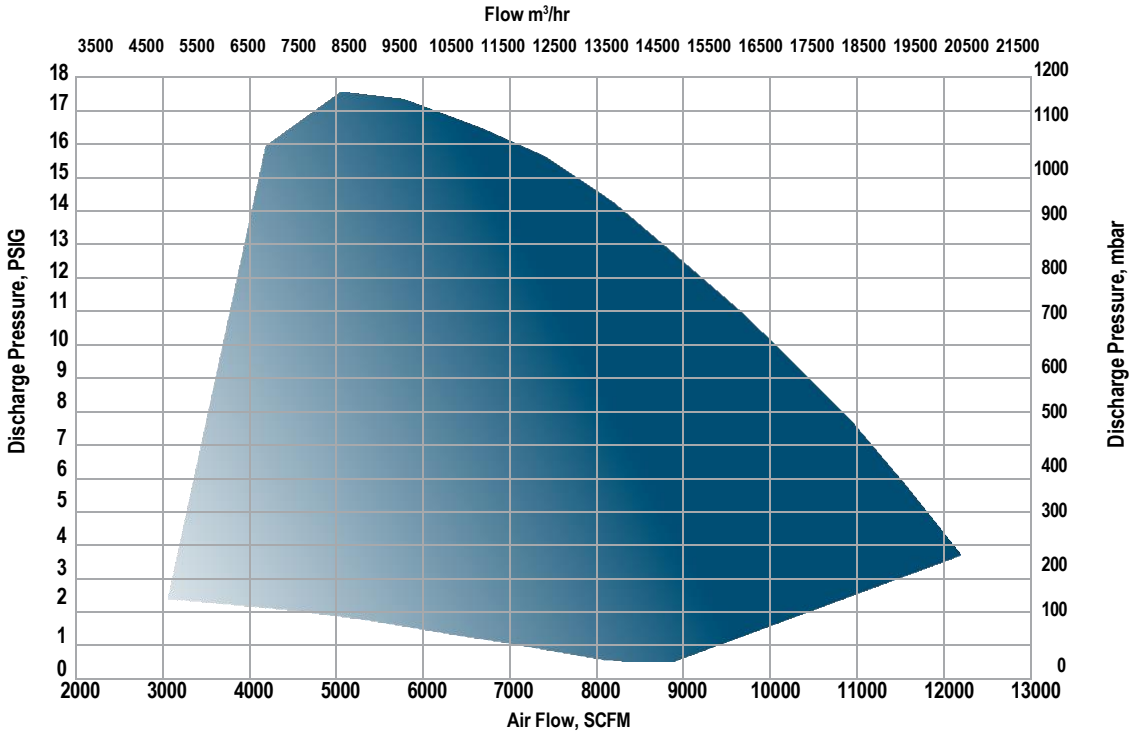
Multistage Centrifugal Blower 350 Series

Hoffman and Lamson present 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. Hoffman and Lamson are worldwide leaders in Multistage Centrifugal Blower technology with thousands of units installed around the globe.

Technical Data

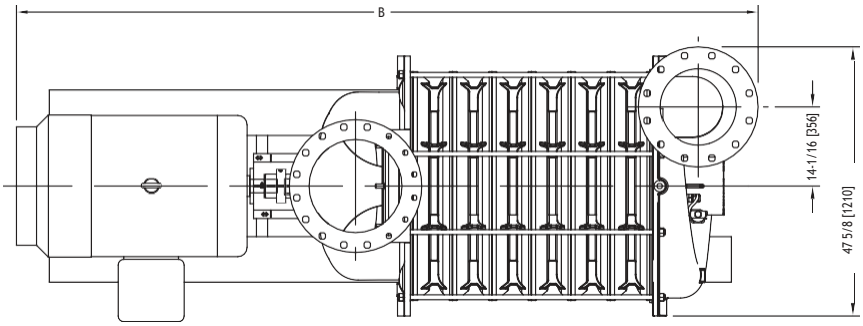
- Number of stages: 1 through 8 (9 at 50 Hz)
- Inlet connection: 16" (406 mm), Flange ANSI 125# drilling
- Outlet connection: 14" (356 mm), Flange ANSI 125# drilling
- Operating speed: up to 4300 RPM
- Shaft seals: Carbon rings
- Bearings: Long life, balls, single row, AFBMA B-10 std
- Lubrication: Oil
- Max casing pressure: 25 PSIG (1.7 bar)
- Impeller diameter: 28" (711.2 mm)
- Impeller tip speed: 436 FPS (132.7 m/s) at 3570 RPM
- Drive: Direct or gear increaser
- Shaft end: 2 1/2" (63.5 mm) / square key 1/2" (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

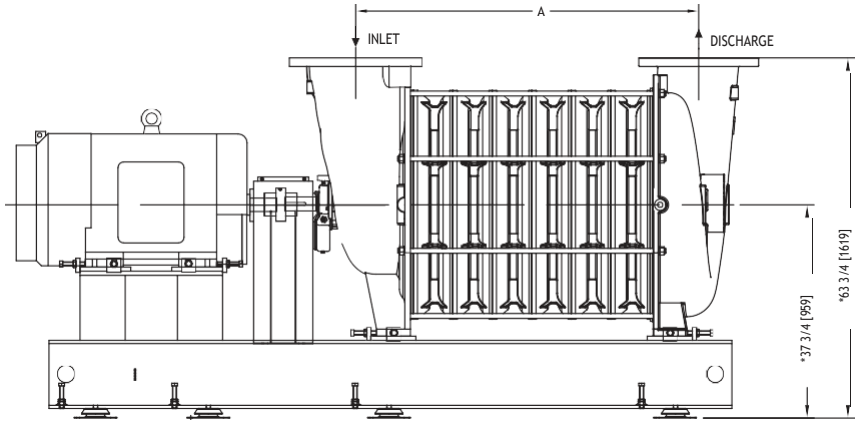
Performance Air Map



STANDARD CONDITIONS: 14.7 PSIA [1 Bar], 68°F [20°C], 36% RH, Speed: 3550 RPM

General Arrangement





Material Standard

- Casing: ASTM A48 Class 30B Gray Cast Iron - HT200 equivalent
- Bearing housing: Cast Iron ASTM A48 class 30B
- Tie rods: High strength carbon steel ASTM A193-B7
- Section seals (O-rings): Fluorocarbon
- Shaft: Carbon steel AISI 1045 (Std) or Stainless (Option)
- Impellers: Cast Aluminum
- Baffle rings: Stainless steel 304
- Base: Structural carbon steel

Dimensional Data - inches [millimeters]

Weight – lb [kg] & Inertia – lb-ft^2 [kg-m^2]

MODEL	A	B	ROTOR WK^2	WEIGHT (Blower only)	
	INCH (mm)	INCH (mm)	lb. ft^2 (kg. m^2)	lb	kg
350.02	25.8 (655)	Consult factory	54.9 (2.314)	2400	1091
350.03	32.8 (833)		82.2 (3.464)	3000	1364
350.04	39.8 (1011)		109.5 (4.614)	3600	1636
350.05	46.8 (1188)		136.8 (5.765)	4200	1909
350.06	53.8 (1366)		164.0 (6.911)	4800	2182
350.07	60.8 (1544)		191.4 (8,066)	5400	2455
350.08	67.8 (1722)		208.7 (9.216)	6000	2727
350.09	74.8 (1900)		226 (10.366)	6600	3000

Product Notes

1. Information is approximate, subject to change without notice, and not for construction use unless certified
2. Position shown is standard inlet & outlet orientation
3. Performances noted are typical and not job specific
4. Consult authorized sales representative for job specific blower or exhauster performance sizing
5. Factory ASME PTC-10 test offered for performance verification
6. For components that exceed 4,000 lb., machined pads are used. Height of the components on the base frame increase by 0.88 inches due to the use of machined pads

* The package height might change slightly due to the vibration isolator selection.

HOFFMAN LAMSON
An Ingersoll Rand Business
200 Simko Blvd.
Charleroi, PA 15022
USA
HOFFMANandLAMSON.com