HOFFMAN LAMSON®
An Ingersoll Rand Business

Multistage Centrifugal Blower
761 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.

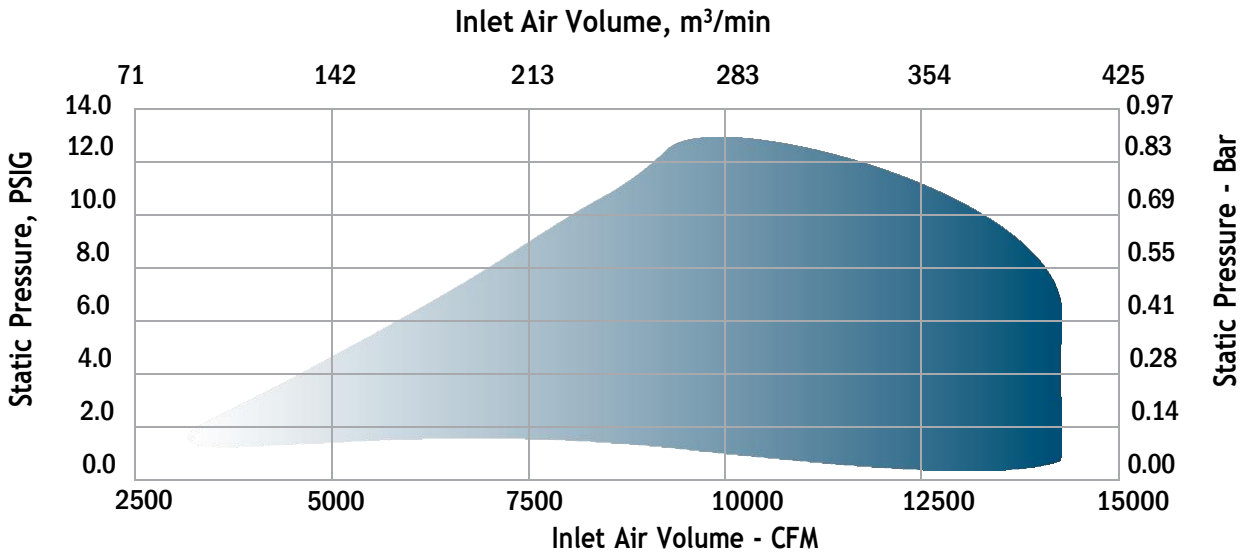
Technical Data

- Number of Stages: 1-7 (60 Hz & 50 Hz)
- Inlet Connection: 14" Flange, ANSI 125# Drilling
- Outlet Connection: 14" Flange, ANSI 125# Drilling
- Operating Speed: 3550 RPM (60 Hz), 2960 RPM (50 Hz)
- Casing Pressure: 25 PSIG (1.73 bar)
- Air Seals: Labyrinth Type - Carbon Ring Optional
- Bearings: Anti-friction, designed for extended L10 life
- Lubrication: AEON® CF Oil
- Impeller: 26.0 inches (660 millimeters) Diameter (statically balanced)
- Impeller Tip: Speed 403 feet/second (122 meters/second)
- Drive: Type Direct Coupled (Inlet drive is standard)
- Drive Shaft: 2.625 inches (66.80 millimeters) Diameter
- Vibration: .235 in/sec. (5.97 mm/sec.) Peak Velocity
- Rotor: Balanced Per ISO 1940, ANSI S2.19

Material Standard

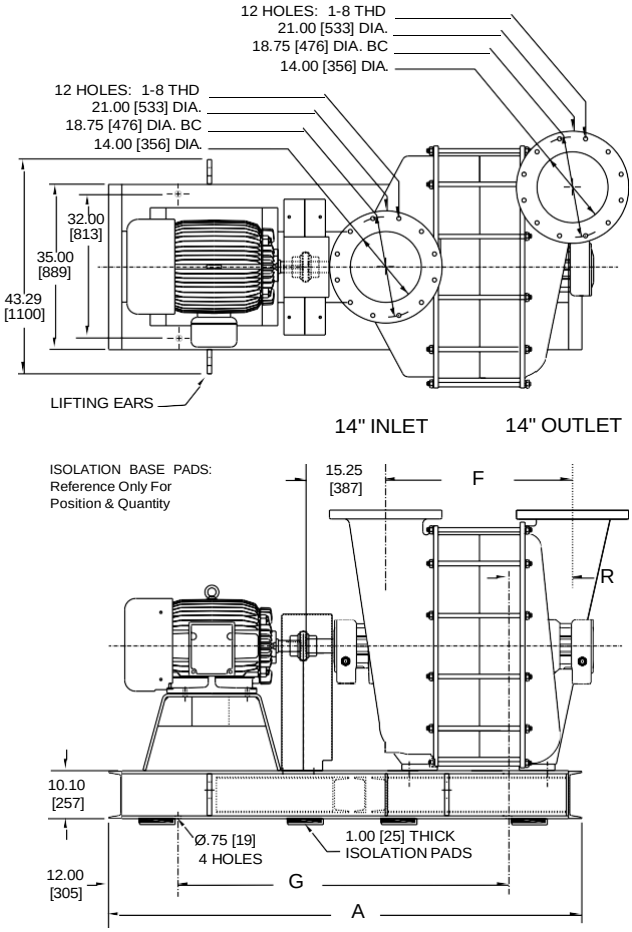
- Casing: ASTM A48 Class 30 Cast Iron - HT200 equivalent
- Bearing Housings: ASTM A48 Class 30 Gray Cast Iron
- Bearing Cap: ASTM A48 Class 30 Gray Cast Iron
- Tie Rods: ASTM F1554 GR.36 Zinc Plated Thrd. Rod
- Labyrinth Seal: ASTM B86 Z35631 Alloy Zinc Aluminum 12
- Carbon Ring Seal Optional: ASTM C695 Fine Grain Molded Graphite
- Joint Sealing: RTV Silicone Compound
- Baffle Rings: ASTM A240 Grade 304 Stainless Steel
- Balance Piston: ASTM A356-T5 Cast Aluminum (5-7 Stage)
- Shaft: ASTM A108 Grade 1045 HRS Stainless Steel Optional
- Impeller: ASTM SC64C Sr-319 Cast Aluminum or ASTM 6061-T6 Fabricated Aluminum
- Blower Base: ASTM A36 Hot Rolled Structural Steel
- Motor Pedestal: ASTM A36 Hot Rolled Structural Steel
- Isolation Base Pads: Suitable Resilient Material
- Finish: Universal Primer - Acrylic Topcoat

Performance Air Map

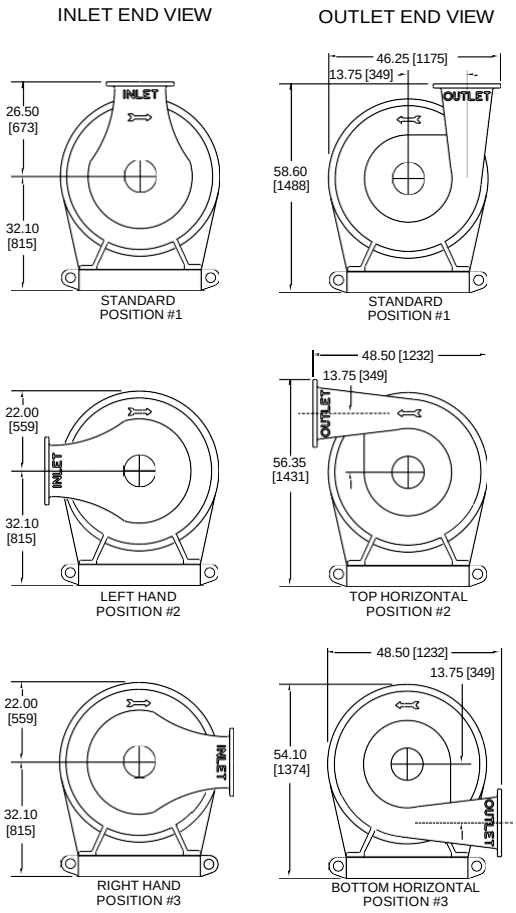


STANDARD CONDITIONS: 14.7 PSIA [1 Bar], 68°F [20°C], 36% RH, Speed: 3550 RPM

General Arrangement



Flange Orientation



Dimensional Data - inches [millimeters]

FRAME	A	F	G	R
76101	84.00 [2134]	22.00 [559]	60.00 [1524]	10.50 [267]
76102	84.00 [2134]	29.88 [759]	60.00 [1524]	10.50 [267]
76103	96.00 [2438]	37.75 [959]	72.00 [1829]	10.50 [267]
76104	108.00 [2743]	45.63 [1159]	84.00 [2134]	10.50 [267]
76105	114.00 [2896]	53.50 [1359]	90.00 [2286]	10.50 [267]
76106	126.00 [3200]	61.38 [1559]	102.00 [2591]	10.50 [267]
76107	132.00 [3353]	69.25 [1759]	108.00 [2743]	10.50 [267]

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

FRAME	PKG. LESS MOTOR	BARE UNIT	WK2
76101	4000 [1814]	2500 [1134]	14 [.59]
76102	4600 [2087]	3100 [1406]	27 [1.14]
76103	5400 [2449]	3700 [1678]	40 [1.69]
76104	6000 [2722]	4300 [1950]	54 [2.29]
76105	6600 [2994]	4900 [2223]	70 [2.96]
76106	7200 [3266]	5500 [2495]	84 [3.55]
76107	8200 [3719]	6200 [2812]	61 [2.59]*

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200 Simko Blvd.
Charleroi, PA 15022
USA
HOFFMANandLAMSON.com

Product Notes

1. Information is approximate, subject to change without notice, and not for construction use unless certified
2. Position #1 is standard inlet & outlet orientation
3. A and G dimensions may vary depending on motor frame size
   * Based on cast impellers except 76107 (fabricated impellers
4. Performances noted are typical and not job specific
5. Consult authorized sales representative for job specific blower or exhauster performance sizing
6. Factory ASME PTC-10 test offered for performance verification
7. 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