



# Multistage Centrifugal Blower 2000 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.

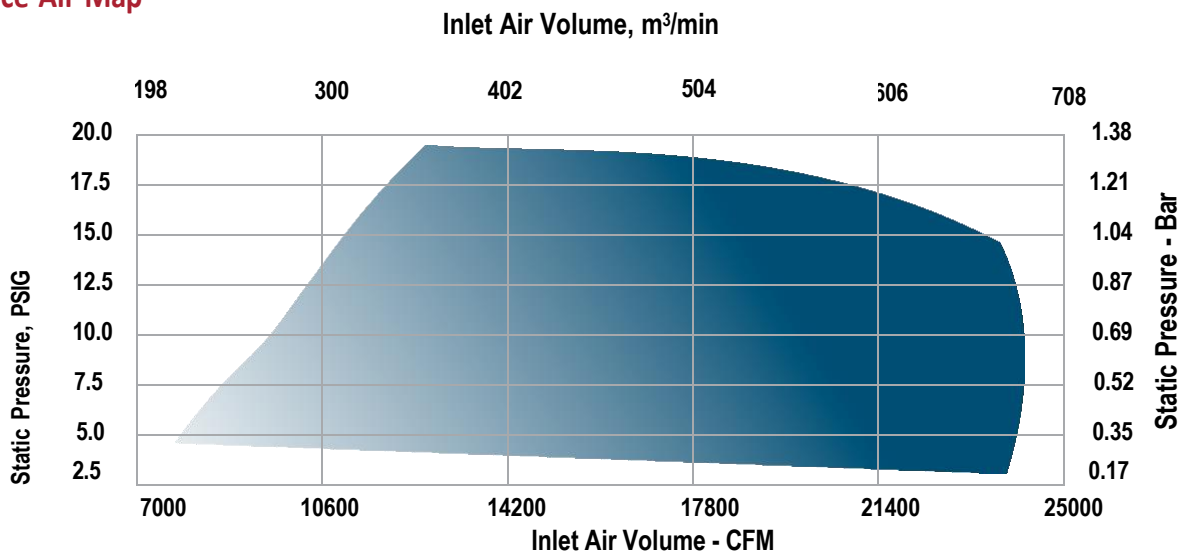
## Technical Data

- Number of Stages: 2-7 (60 Hz) 2-8 (50 Hz)
- Inlet Connection: 20" Flange, ANSI 125# Drilling
- Outlet Connection: 18" Flange, ANSI 125# Drilling
- Operating Speed: 3550 RPM (60 Hz), 2925 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: 30.5 inches (775 millimeters) Diameter (statically balanced)
- Impeller Tip Speed: 475 feet/second (145 meters/second)
- Drive Type: Direct Coupled (Inlet drive is standard)
- Drive Shaft: Diameter 2nd Stage: 1.8745 inches (47.61 millimeters)  
3-5 Stage: 2.8745 inches (73.03 millimeters)  
6-8 Stage: 3.3745 inches (85.71 millimeters)
- Vibration: .235 in/sec. (5.97 mm/sec.) Peak Velocity
- Rotor: Balanced Per ISO 1940, ANSI S2.19

## Material Standard

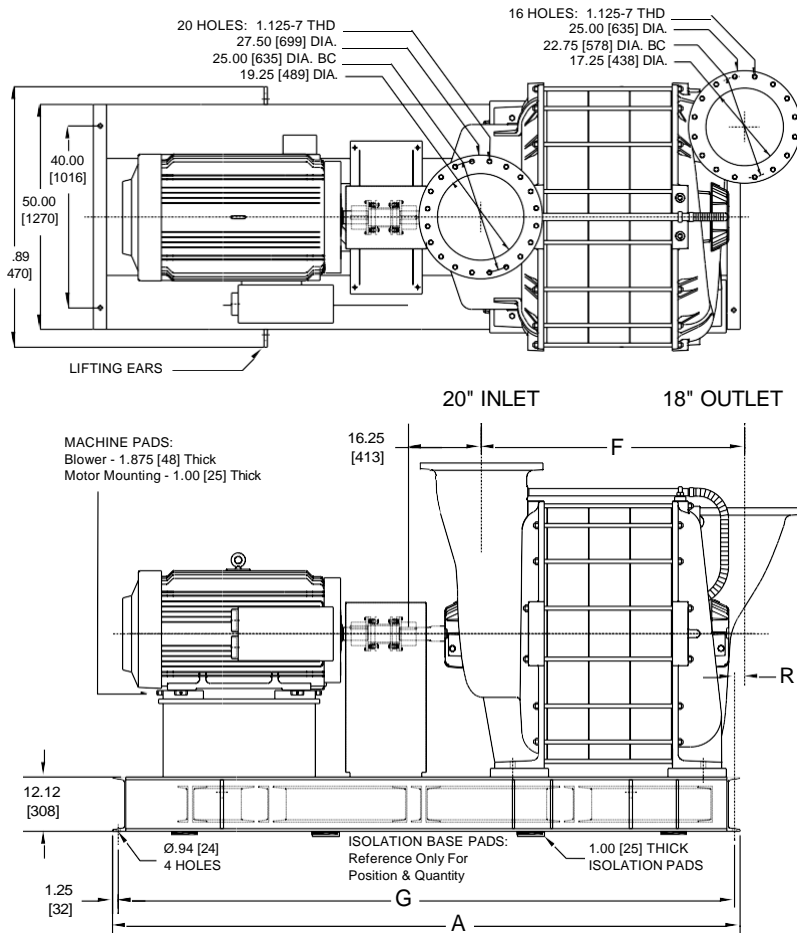
- Casing: ASTM A48 Class 30B Gray Cast Iron - HT200 equivalent
- Bearing Housings: ASTM A48 Class 30 Cast Iron
- Bearing Housing Inserts: ASTM B505 Bearing Grade Bronze
- Tie Rods: ASTM A322 C4142 Steel
- Labyrinth Seal: ASTM B86 Z35631 Alloy Zinc Aluminum 12
- Carbon Ring Seal Optional: ASTM C695 Fine Grain Molded Graphite
- Joint Sealing: RTV Silicone Compound
- MBR™ Baffle Rings: ASTM A36 Electroless Nickel Plated Steel
- Balance Piston: ASTM A36 HR Structural Steel (3-8 Stage)
- Shaft: ASTM A322 Grade 4140CT HRS Stainless Steel Optional
- Impeller: ASTM B26 A356-T6 Cast Aluminum
- Base & Motor Pedestal: ASTM A36 Hot Rolled Structural Steel
- Isolation Base Pads: Suitable Resilient Material
- Finish: Universal Primer - Acrylic Topcoat

## Performance Air Map

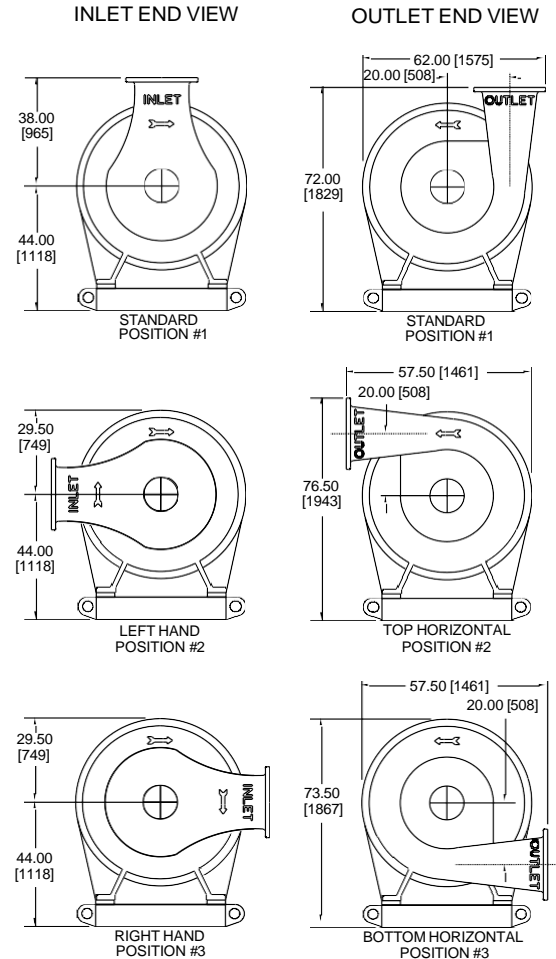


STANDARD CONDITIONS: 14.7 PSIA [1 Bar], 68°F [20°C], 36% RH, Speed: 3550 RPM

## General Arrangement



## Flange Orientation



## Dimensional Data - inches [millimeters]

FRAME	A	F	G	R
2002	120.00 [3048]	40.25 [1022]	117.50 [2985]	2.25 [57]
2003	160.00 [4064]	49.50 [1257]	157.50 [4001]	2.25 [57]
2004	160.00 [4064]	58.75 [1492]	157.50 [4001]	2.25 [57]
2005	160.00 [4064]	68.00 [1727]	157.50 [4001]	2.25 [57]
2006	169.00 [4293]	77.25 [1962]	166.50 [4229]	2.25 [57]
2007	223.00 [5664]	86.50 [2197]	220.50 [5601]	2.25 [57]
2008	223.00 [5664]	95.75 [2432]	220.50 [5601]	2.25 [57]

## Weight – lb [kg] & Inertia – lb-ft<sup>2</sup> [kg-m<sup>2</sup>]

FRAME	PKG. LESS MOTOR	BARE UNIT	WK2
2002	9300 [4218]	5900 [2676]	105 [4.40]
2003	10,870 [4931]	7470 [3388]	164 [6.88]
2004	12,440 [5643]	9040 [4100]	213 [8.93]
2005	14,010 [6355]	10,610 [4813]	262 [11.00]
2006	15,580 [7067]	12,180 [5525]	310 [13.04]
2007	17,750 [8051]	13,750 [6237]	359 [15.08]
2008	19,320 [8763]	15,320 [6949]	408 [17.12]

## 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
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



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