



**HOFFMAN**



**LAMSON**

An Ingersoll Rand Business



# Multistage Centrifugal Blower 2400 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.

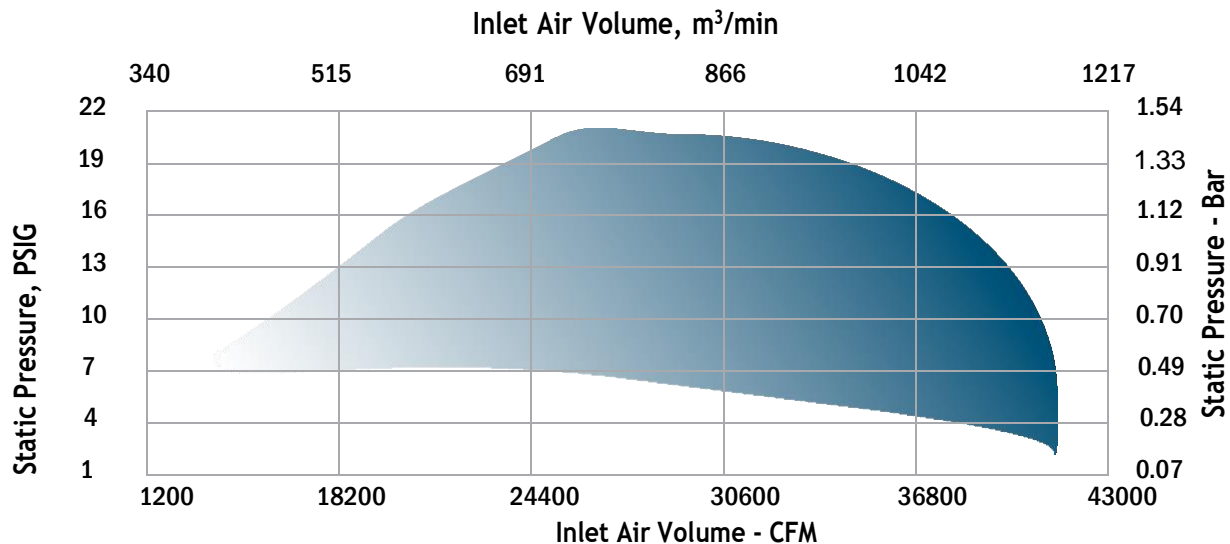
## Technical Data

- Number of Stages: 2-5 (60 Hz) 2-6 (50 Hz)
- Inlet Connection: 24" Flange, ANSI 125# Drilling
- Outlet Connection: 20" Flange, ANSI 125# Drilling
- Operating Speed: 3550 RPM (60 Hz), 2925 RPM (50 Hz)
- Casing Pressure: 30 PSIG (2.08 bar)
- Air Seals: Labyrinth Type - Carbon Ring Optional
- Bearings: Anti-friction, designed for extended L10 life
- Lubrication: AEON® CF Oil
- Impeller: 35.0 inches (889 millimeters) Diameter (statically balanced)
- Impeller Tip Speed: 545 feet/second (166 meters/second)
- Drive Type: Direct Coupled (Inlet drive is standard)
- Drive Shaft Diameter: 2-3 Stage: 3.3745 inches (85.71 millimeters)  
4-6 Stage: 3.6245 inches (92.06 millimeters)
- Vibration: .235 in/sec. (5.97 mm/sec.) Peak Velocity
- Rotor: Balanced Per ISO 1940, ANSI S2.19

## Material Standard

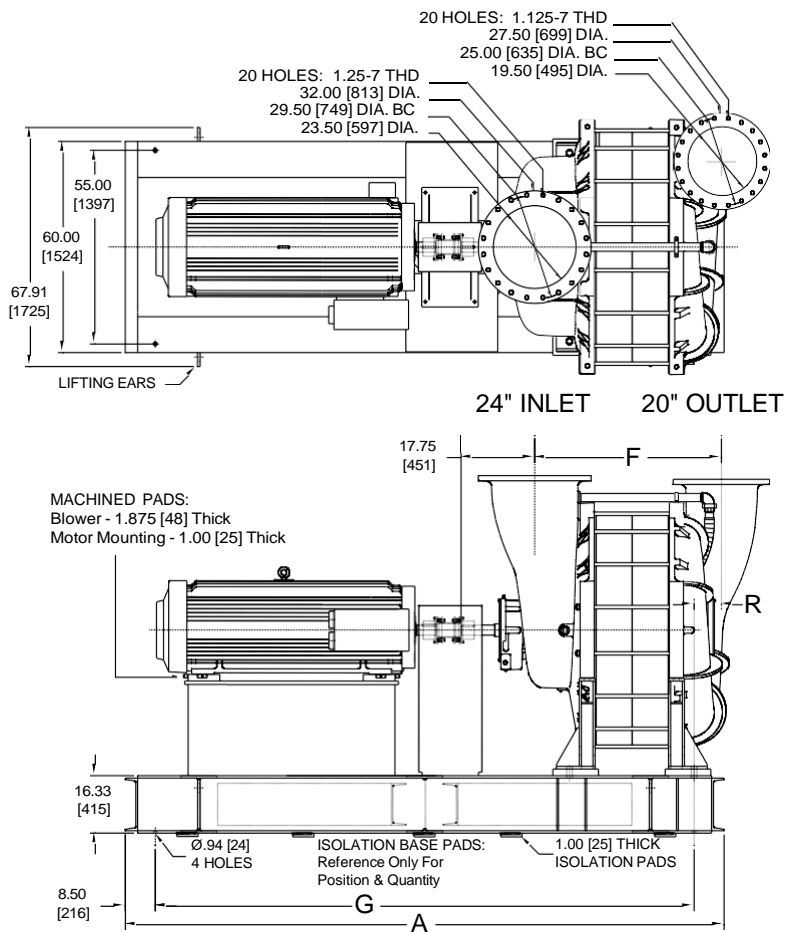
- Casing: ASTM A48 Class 30B Gray Cast Iron- HT200 equivalent
- Bearing Housings: ASTM A48 Class 30 Cast Iron
- Bearing Housing Inserts: ASTM B505 Bearing Grade Bronze
- Tie Rods: ASTM A322 C4142 Steel
- Labyrinth Seal: ASTM B86 Z35631 Alloy Zinc Aluminum 12
- Carbon Ring Seal Optional: ASTM C695 Fine Grain Molded Graphite
- Joint Sealing: RTV Silicone Compound
- MBR™ Baffle Rings: ASTM A240 304 Stainless 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

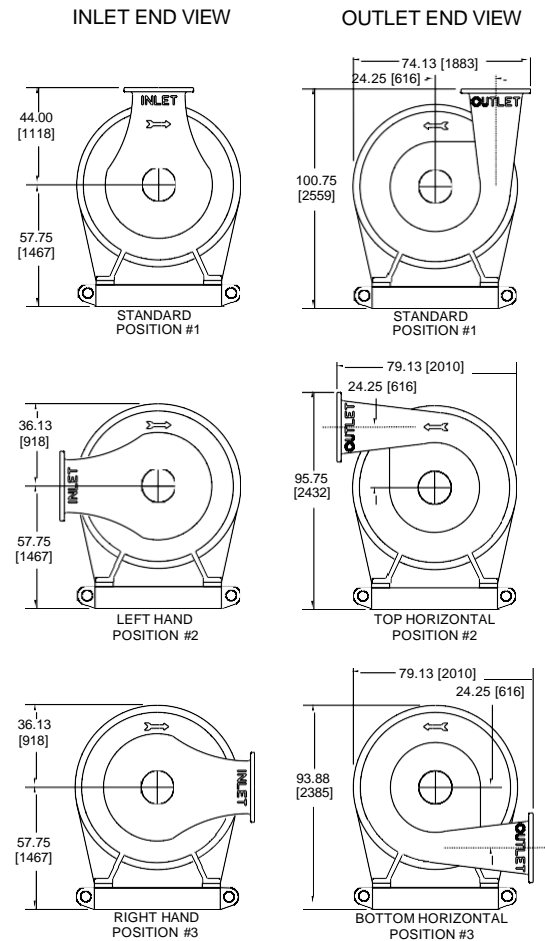


STANDARD CONDITIONS: 14.7 PSIA [1 Bar], 68°F [20°C], 36% RH, Speed: 3550 RPM

## General Arrangement



## Flange Orientation



## Dimensional Data - inches [millimeters]

FRAME	A	F	G	R
2402	160.00 [4064]	42.75 [1086]	143.00 [3632]	7.75 [197]
2403	170.00 [4318]	53.00 [1346]	153.00 [3886]	7.75 [197]
2404	180.00 [4572]	63.25 [1606]	163.00 [4140]	7.75 [197]
2405	197.00 [5004]	73.50 [1867]	172.00 [4369]	7.75 [197]
2406	237.00 [6020]	83.75 [2127]	212.00 [5385]	7.75 [197]

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

FRAME	PKG. LESS MOTOR	BARE UNIT	WK2
2402	16,760 [7602]	10,760 [4881]	263 [11.05]
2403	19,380 [8791]	13,380 [6069]	378 [15.87]
2404	22,000 [9979]	16,000 [7257]	492 [20.65]
2405	26,120 [11,848]	18,620 [8446]	614 [25.78]
2406	28,740 [13,036]	21,240 [9634]	722 [30.33]



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## Product Notes

- Information is approximate, subject to change without notice, and not for construction use unless certified
- Position #1 is standard inlet & outlet orientation
- A and G dimensions may vary depending on motor frame size
- Performances noted are typical and not job specific
- Consult authorized sales representative for job specific blower or exhauster performance sizing
- Factory ASME PTC-10 test offered for performance verification

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