HOFFMAN LAMSON

Technical & Performance Data
HOFFMAN 742 Series
Centrifugal Products

DESIGN STANDARD

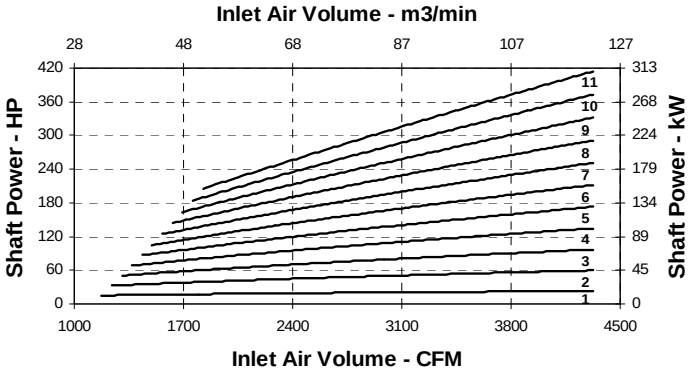
Number of Stages	1-11 (60 Hz) 1-12 (50 Hz)
Inlet Connection	10" Flange, ANSI 125# Drilling
Outlet Connection	8" Flange, ANSI 125# Drilling
Operating Speed	3550 RPM (60 Hz), 2960 RPM (50 Hz)
Casing Pressure	25 PSIG (1.73 bar)
Air Seals	Labyrinth Type - *Carbon Ring Optional*
Bearings	Anti-friction, designed for extended L_{10} life
Lubrication	AEON® CF Grease – *Oil Optional*
Impeller	24.0 inches (610 millimeters) Diameter (statically balanced)
Impeller Tip Speed	372 feet/second (113 meters/second)
Drive Type	Direct Coupled (Inlet drive is standard)
Drive Shaft	2.25 inches (57.15 millimeters) Diameter
Vibration	.235 in/sec. (5.97 mm/sec.) Peak Velocity
Rotor	Balanced Per ISO 1940, ANSI S2.19

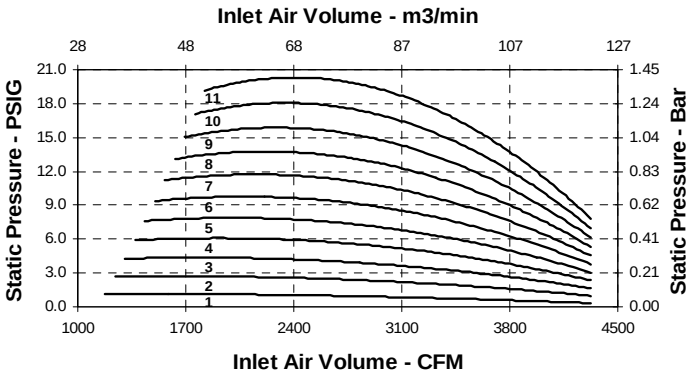
MATERIAL STANDARD

Casing	ASTM A48 Class 30 Gray Cast Iron
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 (7-12 Stage)
Shaft	ASTM A108 Grade 1045 HRS
	Stainless Steel Optional
Impeller	ASTM SC64C Sr-319 Cast 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

PRESSURE PERFORMANCE

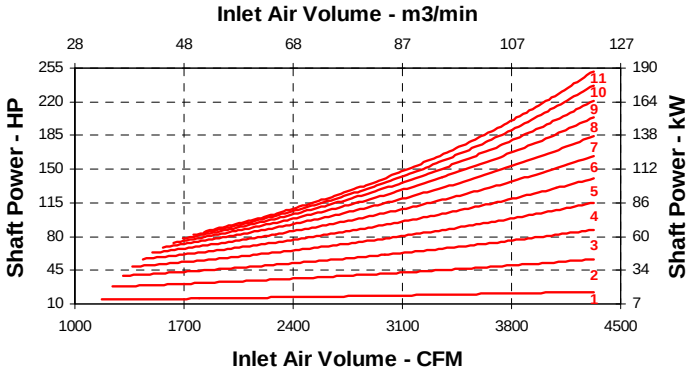
14.7 PSIA [1 Bar], 68°F [20°C], 36% RH, Speed: 3550 RPM

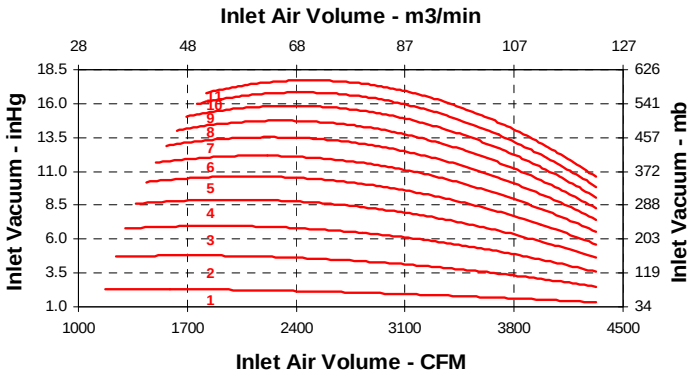




VACUUM PERFORMANCE

29.9 inHg [1 Bar], 68°F [20°C], 36% RH, Speed: 3550 RPM





PRODUCT NOTES

1. Information is approximate and subject to change without notice
2. Performances noted above are typical and not job specific
3. Consult authorized Hoffman/Lamson sales representative for job specific blower or exhauster performance sizing
4. Factory ASME PTC-10 test offered for performance verification

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"Over 150 Years of Leadership"

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