



Technical & Performance Data LAMSON 1400 Series Centrifugal Products

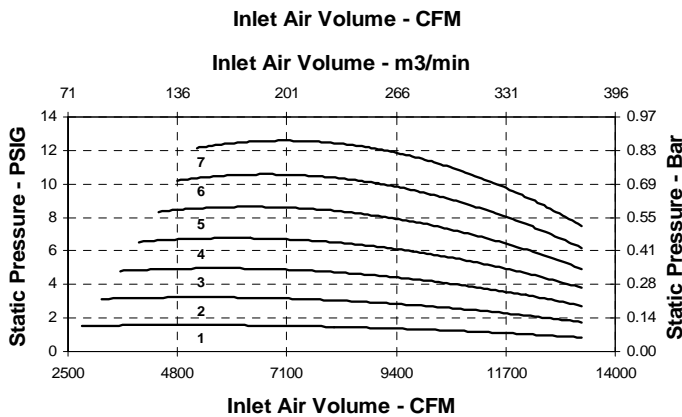
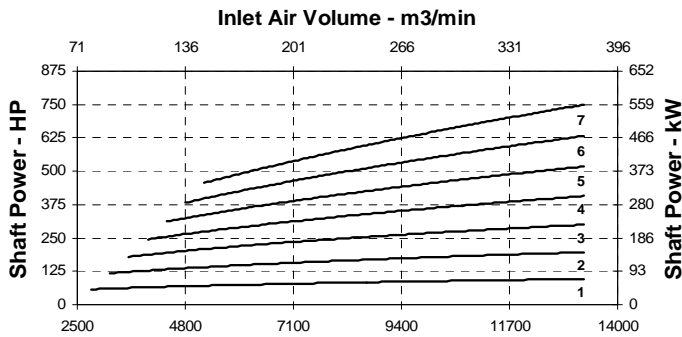
DESIGN STANDARD

Number of Stages	1-7 (60Hz) 1-8 (50 Hz)
Inlet Connection	18" Flange, ANSI 125# Drilling
Outlet Connection	14" {16"} Flange Adapter, 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 L ₁₀ life
Lubrication	AEON [®] CF Oil
Impeller	26.0 inches (660 millimeters) Diameter (statically balanced)
Impeller Tip Speed	405 feet/second (123 meters/second)
Drive Type	Direct Coupled (Inlet drive is standard)
Drive Shaft Diameter	1-2 Stage: 1.8745 inches (47.63 millimeters) 3-8 Stage: 2.8745 inches (69.85 millimeters)
Vibration	.235 in/sec. (5.97 mm/sec.) Peak Velocity
Rotor	Balanced Per ISO 1940, ANSI S2.19

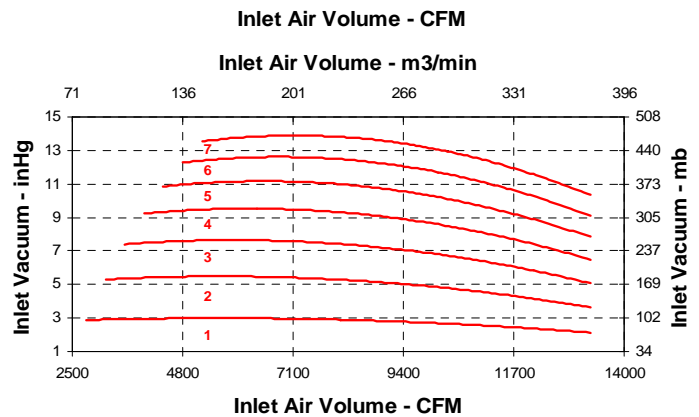
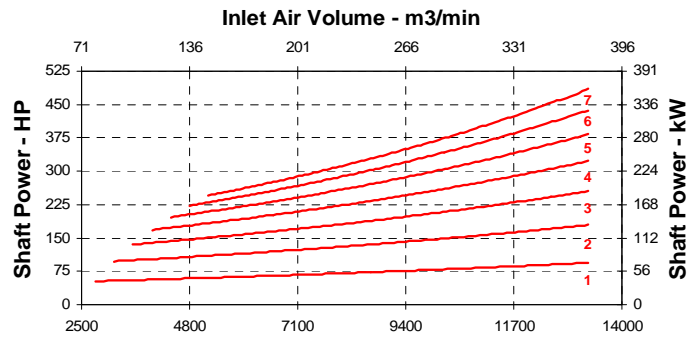
MATERIAL STANDARD

Casing	ASTM A48 Class 30 Cast Iron
Bearing Housings	ASTM A48 Class 30 Cast Iron
Tie Rods	ASTM F1554 GR.36 Zinc Plated Steel (1-4 Stg) ASTM A108 C1045 Steel (5-9 Stage)
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
Shaft	ASTM A322 Grade 4140CT HRS Stainless Steel Optional
Impeller	ASTM SC64C Sr-319 Cast Aluminum
Base & 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

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

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