



Technical & Performance Data LAMSON 1600 Series Centrifugal Products

DESIGN STANDARD

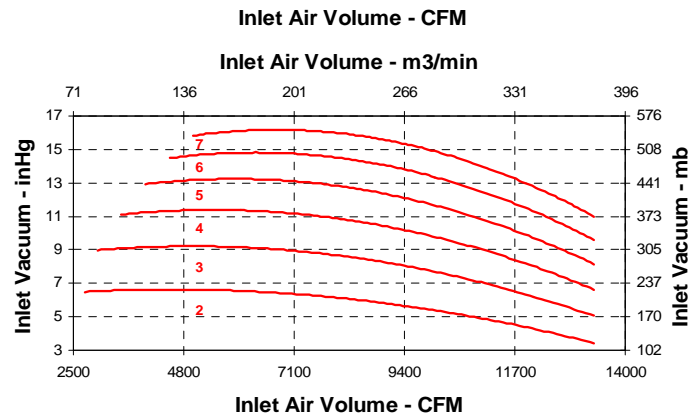
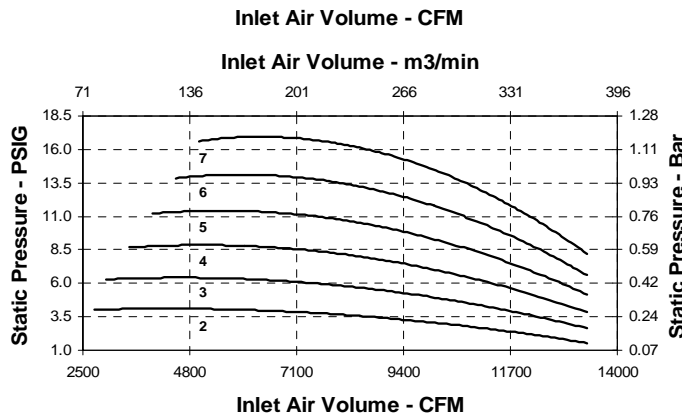
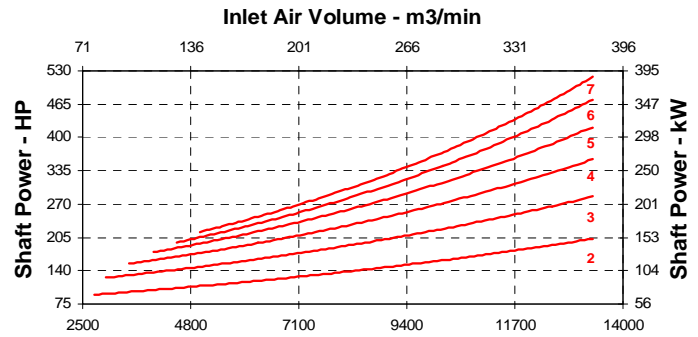
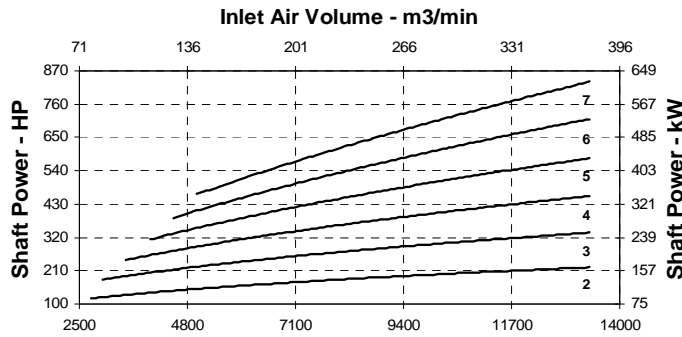
Number of Stages.....	2-7 (60 Hz) 2-8 (50 Hz)
Inlet Connection.....	16" Flange, ANSI 125# Drilling
Outlet Connection.....	14" Flange, ANSI 125# Drilling
Operating Speed.....	3550 RPM (60 Hz), 2925 RPM (50 Hz)
Casing Pressure.....	25 PSIG (1.73 bar)
Air Seals.....	Labyrinth Type - Carbon Ring Optional
Bearings.....	Anti-friction, designed for extended L ₁₀ life
Lubrication.....	AEON® CF Oil
Impeller.....	28.0 inches (711 millimeters) Diameter (statically balanced)
Impeller Tip Speed.....	435 feet/second (133 meters/second)
Drive Type.....	Direct Coupled (Inlet drive is standard)
Drive Shaft Diameter.....	2 nd Stage: 1.8745 inches (47.61 millimeters) 3-8 Stage: 2.875 inches (73.03 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
Bearing Housing Inserts.....	ASTM B505 Bearing Grade Bronze
Tie Rods.....	ASTM A108 C1045 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 (4-8 Stage)
Shaft.....	ASTM A322 Grade 4140CT HRS Stainless Steel Optional
Impeller.....	ASTM B26 A355-T6 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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