



Technical & Performance Data LAMSON 870 Series Centrifugal Products

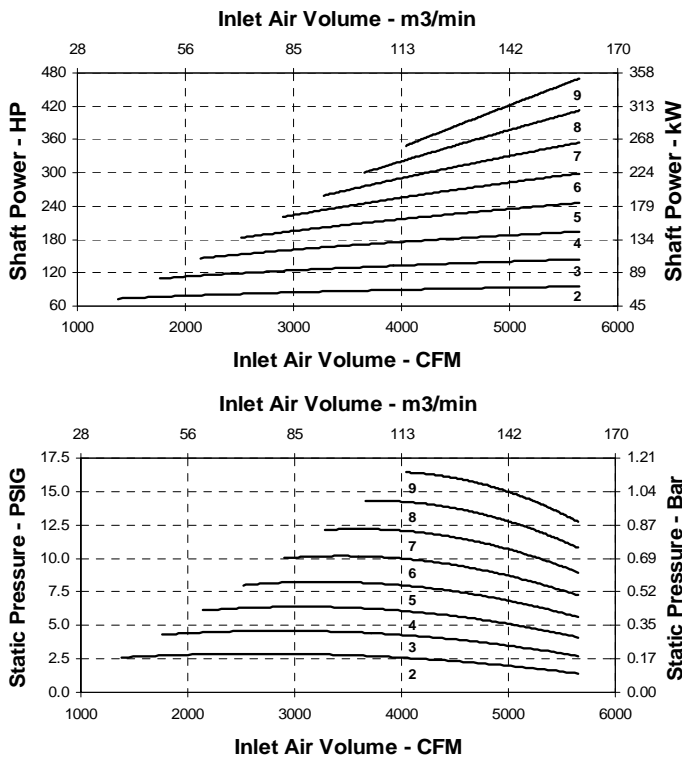
DESIGN STANDARD

Number of Stages	2-9 (60 Hz) 2-10 (50 Hz)
Inlet Connection	10" Flange, ANSI 125# Drilling
Outlet Connection	8" 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 - <i>Carbon Ring Optional</i>
Bearings	Anti-friction, designed for extended L ₁₀ life
Lubrication	AEON [®] CF Grease - <i>Oil Optional</i>
Impeller	25.0 inches (635 millimeters) Diameter (statically balanced)
Impeller Tip Speed	387 feet/second (117 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

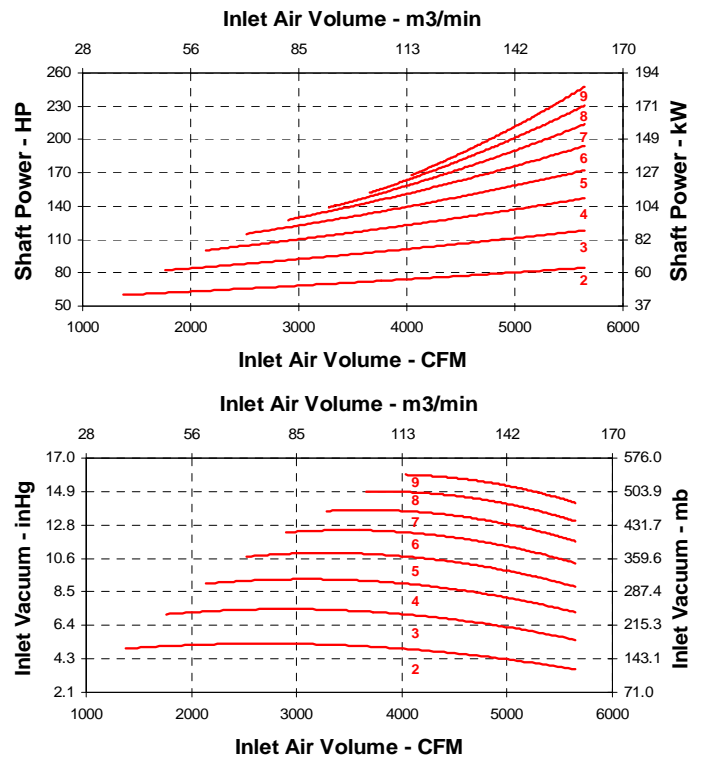
MATERIAL STANDARD

Casing	ASTM A48 Class 30 Cast Iron
Bearing Housings	ASTM A48 Class 30 Cast Iron
Bearing Cap	ASTM A48 Class 30 Cast Iron
Tie Rods	ASTM F1554 GR.36 Zinc Plated Thrd. Rod
Labyrinth Seal	ASTM B86 Z35631 Alloy Zinc Aluminum 12
<i>Carbon Ring Seal Optional</i>	ASTM C695 Fine Grain Molded Graphite
Joint Sealing	RTV Silicone Compound
Baffle Rings	ASTM A240 Grade 304 Stainless Steel
Balance Piston	ASTM A36 HR Structural Steel (5-10 Stage)
Shaft	ASTM A322 Grade 4140CT Hot Rolled Steel - <i>Stainless Steel Optional</i>
Impeller	ASTM B26-78 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

Gardner Denver, Inc.

100 Gardner Park, Peachtree City, GA 30269
 Phone: 800-982-3009 / 770-632-5000
 Fax: 770-486-5628
 E-mail: cf.blowers@gardnerdenver.com
 Web: www.HoffmanandLamson.com



"Over 150 Years of Leadership"