



# Technical & Performance Data HOFFMAN 761 Series Centrifugal Products

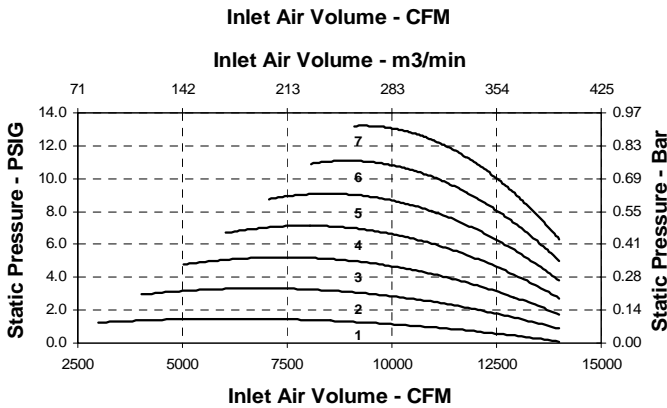
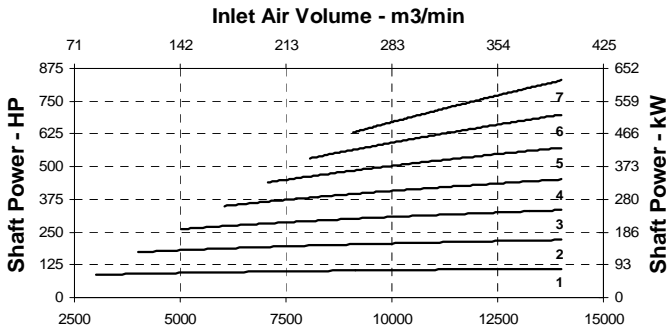
## DESIGN STANDARD

Number of Stages.....1-7 (60 Hz & 50 Hz)  
 Inlet Connection.....14" Flange, ANSI 125# Drilling  
 Outlet Connection.....14" 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<sub>10</sub> life  
 Lubrication.....AEON® CF Oil  
 Impeller.....26.0 inches (660 millimeters) Diameter  
 (statically balanced)  
 Impeller Tip Speed.....403 feet/second (122 meters/second)  
 Drive Type.....Direct Coupled (Inlet drive is standard)  
 Drive Shaft.....2.625 inches (66.80 millimeters) Diameter  
 Vibration......235 in/sec. (5.97 mm/sec.) Peak Velocity  
 Rotor.....Balanced Per ISO 1940, ANSI S2.19

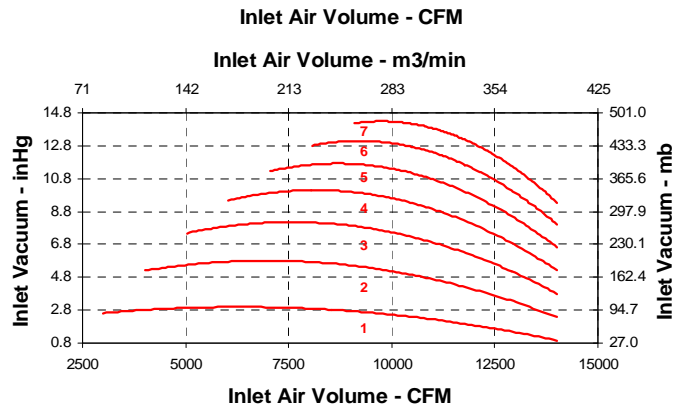
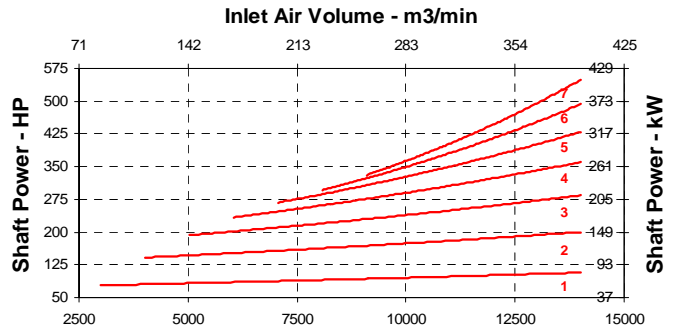
## MATERIAL STANDARD

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 (5-7 Stage)  
 Shaft.....ASTM A108 Grade 1045 HRS  
 Stainless Steel Optional  
 Impeller.....ASTM SC64C Sr-319 Cast Aluminum or  
 ASTM 6061-T6 Fabricated 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

### 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



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