



# Technical & Performance Data HOFFMAN 671 Series Centrifugal Products

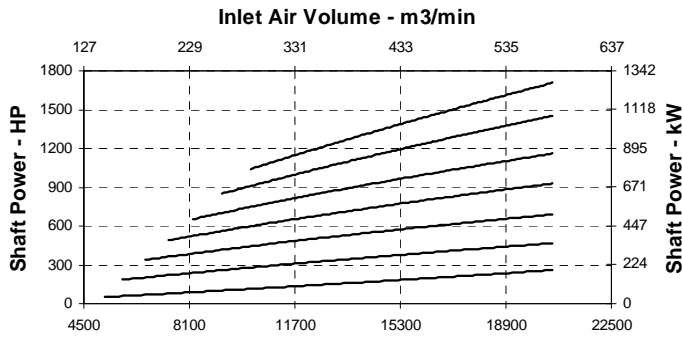
## DESIGN STANDARD

Number of Stages.....1-7 (60 Hz) 1-8 (50 Hz)  
 Inlet Connection.....20" Flange, ANSI 125# Drilling  
 Outlet Connection.....18" Flange, ANSI 125# Drilling  
 Operating Speed.....3550 RPM (60 Hz), 2925 RPM (50 Hz)  
 Casing Pressure.....25 PSIG (1.73 bar)  
 Air Seals.....Carbon Ring Type  
 Bearings.....Anti-friction, designed for extended L<sub>10</sub> life  
 Lubrication.....AEON® CF Oil  
 Impeller.....29.75 inches (756 millimeters) Diameter  
 (statically balanced)  
 Impeller Tip Speed.....463 feet/second (141 meters/second)  
 Drive Type.....Direct Coupled (Inlet drive is standard)  
 Drive Shaft Diameter.....2.8745 inches (73.03 millimeters)  
 Vibration......235 in/sec. (5.97 mm/sec.) Peak Velocity  
 Rotor.....Balanced Per ISO 1940, ANSI S2.19

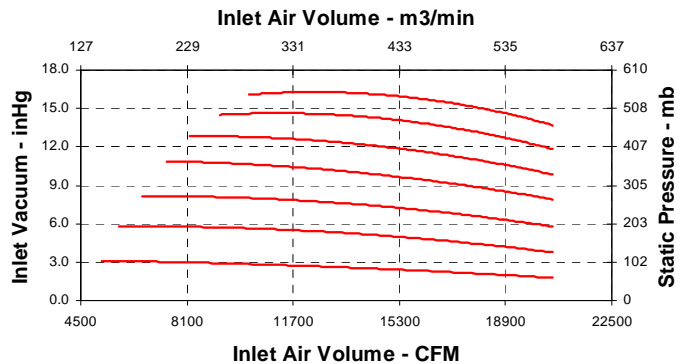
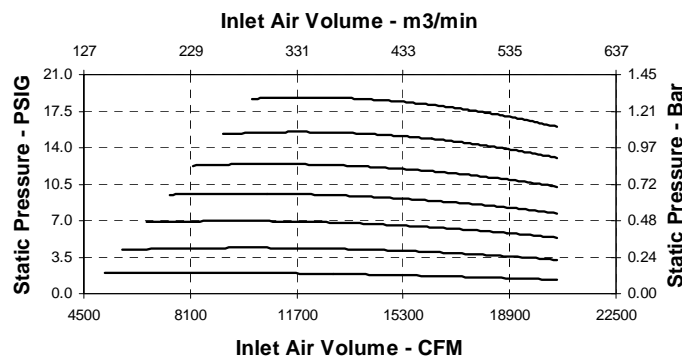
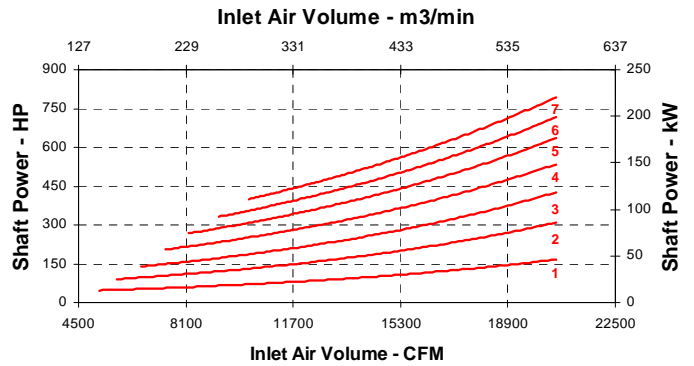
## MATERIAL STANDARD

Casing.....ASTM A48 Class 30 Cast Iron  
 Bearing Housings.....ASTM A48 Class 30 Cast Iron  
 Bearing Cap.....ASTM A48 Class 30 Cast Iron  
 Tie Rods.....ASTM F1554 GR.36 Zinc Plated Thrd. Rod  
 Carbon Ring Seal.....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 (3-8 Stage)  
 Shaft.....ASTM A108 Grade 1045 HRS  
*Stainless Steel Optional*  
 Impeller.....ASTM SC64C Sr-319 Cast Aluminum or  
 ASTM 6061-T6 Fabricated 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

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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