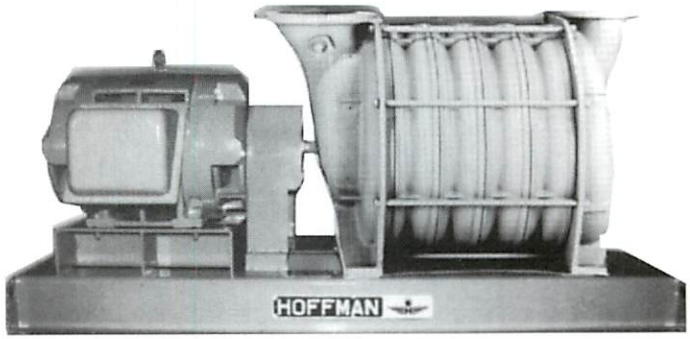
HOFFMAN®
AIR & FILTRATION SYSTEMS
ISO 9001 REGISTERED

652 SPECIFICATIONS



TECHNICAL DATA

Number of stages: 1 through 8 (9 for 50 Hz).
Inlet connection: 12" (305mm) flange, ANSI 125# drilling.
Outlet connection: 10" (254mm) flange, ANSI 125# drilling.
Operating speed: 3550 RPM.
Seals (air): Two carbon rings each end.
Seals (gas): Four carbon rings each end with inert gas injection taps.
Bearings: Ball, 10 year minimum life per AFBMA L_{10} standards.
Lubrication: Grease standard (oil system available).
Impeller diameter: 24-1/2" (622mm).
Impeller tip speed: 380 FPS (116 m/sec).
First critical speed: 4,439 RPM (8 stage).
Direct drive: Yes, also available for gear drive.
Vibration tolerance: 0.28"/sec (7.1mm/sec).
Balance piston: Supplied on 5 stage and above machines.
Shaft end: 2-1/4" (57mm); inlet end drive standard.
Rotor balance: Impellers are statically balanced individually. Complete rotating assemblies are dynamically balanced.
Maximum casing pressure: 25 PSIG.

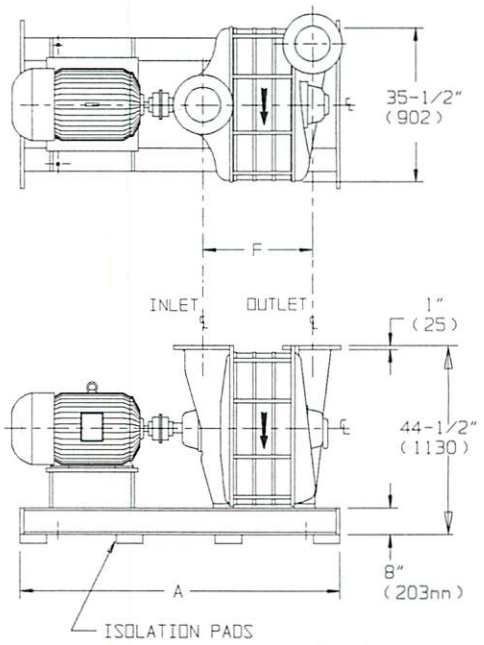
DIMENSIONS

MODEL	A	F	WEIGHT		WK² (lb. ft.²)
			LBS	KG	
65201B	60"(1524mm)	18 1/2" (470mm)	1600	727	17
65202B	84"(2134mm)	24 3/4" (629mm)	2060	936	33
65203B	84"(2134mm)	31" (787mm)	2590	1177	49
65204B	96"(2438mm)	37 1/4" (946mm)	2970	1350	66
65205B	108"(2743mm)	43 1/2" (1105mm)	3440	1546	74
65206B	108"(2743mm)	49 3/4" (1264mm)	3770	1714	99
65207B	120"(3048mm)	56" (1422mm)	4220	1918	113
65208B	120"(3048mm)	62 1/4" (1581mm)	4610	2095	131

Information is approximate, subject to change, and not to be used for construction purposes.

MATERIALS OF CONSTRUCTION

Casing: Cast Iron ASTM A-48, Class 30.
Tie rods: Cold drawn steel.
Section sealing: RTV silicone.
Shaft: Carbon steel, AISI 1045 (stainless steel available).
Impellers: Cast aluminum. Heresite and other coatings for special applications.
Base: Fabricated steel (1-6 stages), structural steel (7-8 stages).
Motor pedestal: Welded steel plate.
Finish: Blue enamel over rust inhibitive primer.
Base pads: Korfund Elasto-rib (or equal).
Interstage baffles: AISI 300 Series Stainless Steel.



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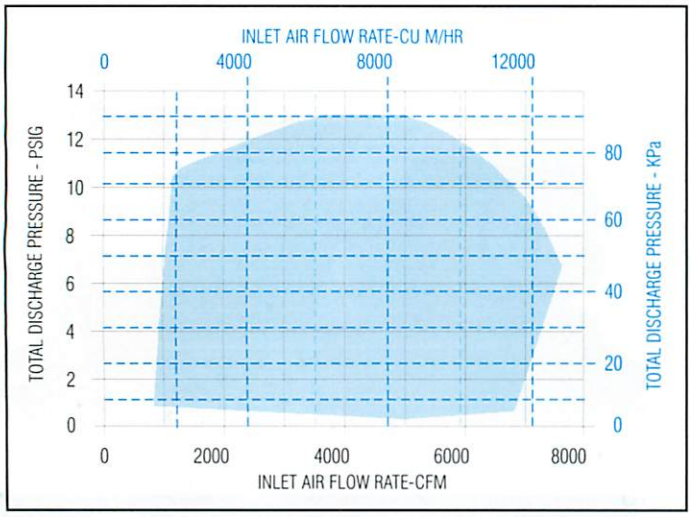
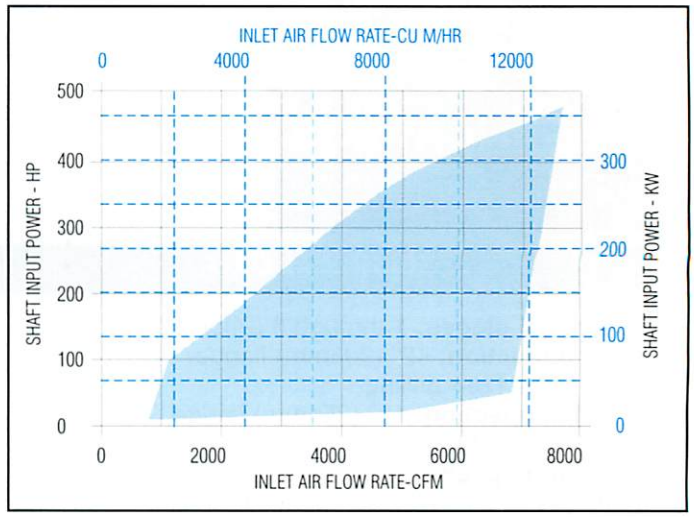
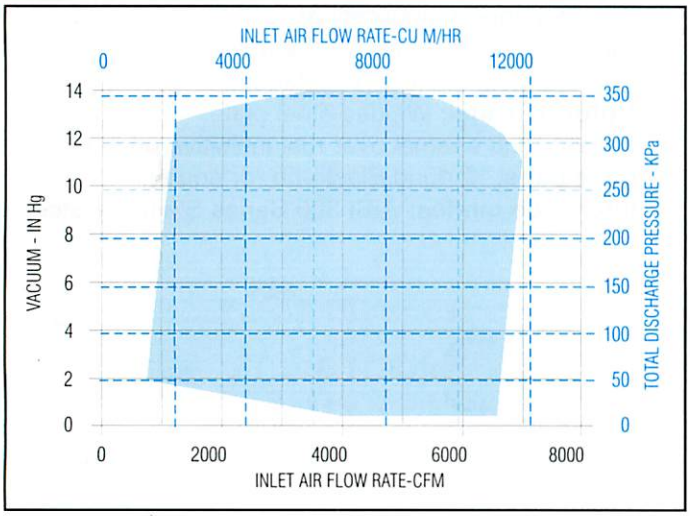
APPROXIMATE BLOWER PERFORMANCE

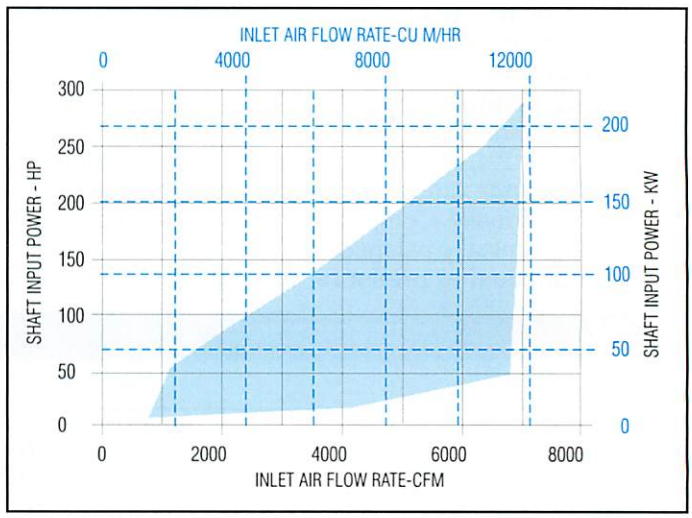




Inlet conditions: 14.7 PSIA (101.4 KPa), 68˚F (20˚C), 36% RH. Speed: 3550 RPM.

APPROXIMATE EXHAUSTER PERFORMANCE





Atmospheric conditions: 29.9" Hg (760 mm Hg), 68˚F (20˚C), 36% RH. Speed: 3550 RPM.

HOFFMAN®

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