

**TECHNICAL DATA
2400 SERIES**

DESIGN

Air or gas
 Number of stages 1-5 (60 Hz), 1-6 (50 Hz)
 Inlet or outlet driven Inlet standard
 Inlet connection 24" flange, matches 125# ANSI
 Outlet connection .. 20" flange, matches 125# ANSI
 Operating speed 3,570 RPM (60 Hz)
 2,975 RPM (50 Hz)
 Maximum casing pressure 30 PSIG (2.07 bar)
 Seals (air or gas) Carbon ring type
 Bearings Ball, life per AFBMA spec #B-10
 Lubrication Oil
 Impeller diameter 35.0 (889.0)
 Impeller tip speed 32,712 FPM (9,971 m/min)
 Direct drive Shaft diameter at coupling
 1 stage: 2.875 (73.03)
 2-3 stage: 3.375 (85.73)
 4-6 stage: 3.625 (92.08)
 Vibration tolerance ... 1.25 mils measured in vertical
 plane at top of bearing housing (.032 mm)

CAPACITIES

Blower..... 10,000-40,000 SCFM, 22.0 PSIG max
 17,000-68,000 Sm³/H, 1.52 bar
 Exhauster 10,000-40,000 ICFM, 17.6" Hg max
 17,000-68,000 Im³/H, 447 mm Hg

MATERIALS OF CONSTRUCTION

Casing Cast iron ASTM A48 grade 25/30*
 Bearing housings, caps & oil reservoirs Cast iron
 Tie rods Steel
 Carbon ring seals Carbon-graphite rings
 with steel housing (stainless steel is optional)
 Joint sealing compound RTV-Silicone rubber
 Baffle rings Electroless nickel plated steel
 standard. Special material available
 Shaft Hot rolled carbon steel
 Impellers Cast aluminum alloy
 Base & pedestal Steel

MISCELLANEOUS

Finish See page 25.10.16
 Base pads ... Molded synthetic rubber 0.5 (13) thick;
 see page 25.23.09

Unit Weights & Inertia Data

Stage	Weight		WK ²
	Bare Machine	Base & Motor Pedestal	
1	7,500 (3,402)	Consult Factory	81 (3.4)
2	10,250 (4,649)		156 (6.6)
3	13,000 (5,897)		239 (10.1)
4	15,750 (7,144)		314 (13.2)
5	18,500 (8,392)		388 (16.4)
6	21,250 (9,639)		462 (19.5)

Notes:

1. Dimensions given in inches and (mm). Weights given in lbs and (kg). WK² given in lb-ft² and (kg-m²).
2. Specifications subject to change without notice.
3. *Under Meehanite License.