

LAMSON CENTRIFUGAL BLOWERS, 1 Lamson St. P.O. Box 4857 Syracuse, NY 13221, (315) 433-5500.
FAX (315) 433-5451, 1 (800) 543-7736

**TECHNICAL DATA
1600 SERIES**

DESIGN

Air or gas
Number of stages 1-7 (60 Hz), 1-8 (50 Hz)
Inlet or outlet driven Inlet standard
Inlet connection 16" flange, matches 125# ANSI
Outlet connection .. 14" flange, matches 125# ANSI
Operating speed 3,560 RPM (60 Hz)
..... 2,965 RPM (50 Hz)
Maximum casing pressure 25 PSIG (1.72 bar)
Seals (air) Labyrinth, carbon ring available
Seals (gas) Carbon ring type
Bearings Ball, life per AFBMA spec #B-10
Lubrication Oil
Impeller diameter 28.0 (711.0)
Impeller tip speed 26,095 FPM (7,954 m/min)
Direct drive Shaft diameter at coupling
..... 1-2 stage: 1.875 (47.63)
..... 3-8 stage: 2.875 (73.02)
Vibration tolerance ... 1.25 mils measured in vertical
plane at top of bearing housing (.032 mm)

CAPACITIES

Blower 3,000-12,000 SCFM, 17.0 PSIG max
..... 5,100-20,400 Sm³/H, 1.17 bar
Exhauster 3,000-12,000 ICFM, 16.0" Hg max
..... 5,100-20,400 Im³/H, 406 mm Hg

MATERIALS OF CONSTRUCTION

Casing Cast iron ASTM A48 grade 25/30*
Bearing housings Cast iron with bronze insert
Bearing caps & oil reservoirs Cast iron
Tie rods Steel
Carbon ring seals Carbon-graphite rings
with steel housing (stainless steel is optional)
Labyrinth seals Cast iron, with babbitt insert
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 25.10.10
Base pads ... Molded synthetic rubber 0.5 (13) thick
see page 25.23.01

Unit Weights & Inertia Data			
Stage	Weight Machine & Base		WK ²
1	4,610	(2,091)	35 (1.5)
2	5,890	(2,672)	70 (2.9)
3	7,600	(3,447)	100 (4.2)
4	8,870	(4,023)	140 (5.9)
5	10,270	(4,658)	175 (7.4)
6	11,730	(5,321)	210 (8.8)
7	13,080	(5,933)	240 (10.1)
8	14,130	(6,409)	275 (11.6)

- 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.