Gardner Denver

Gardner Denver Machinery Inc.
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LAMSON

LAMSON CENTRIFUGAL BLOWERS, 1 Lamson St., P.O. Box 4857 Syracuse New York 13221 (315) 433-5500
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LAMSON PRODUCT DATA

CENTRIFUGAL AIR SYSTEMS

BLOWERS/ EXHAUSTERS

TECHNICAL DATA
1270 SERIES

DESIGN

Air or gas
Number of stages ..... 1-8 (60 Hz), 1 - 9 (50 Hz)
Inlet or outlet driven ..... Inlet standard
Inlet connection ..... 14" flange, matches 125# ANSI
Outlet connection ..... 12" 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 ..... 1-6 stage: grease standard, oil optional
7-9 stage: oil
Impeller diameter 26.0 (660.4)
Impeller tip speed ..... 24,232 FPM (7,386 m/min)
Direct drive ..... Shaft diameter at coupling
1-2 stage: 1.875 (47.63)
3-9 stage: 2.750 (69.85)
Vibration tolerance ..... 1.25 mils measured in vertical plane at top of bearing housing (.032 mm)

Unit Weights & Inertia Data

Stages	Machine and base weight		WK²	
1	3,175	(1,440)	23	(1.0)
2	4,075	(1,848)	43	(1.8)
3	4,955	(2,248)	64	(2.7)
4	5,820	(2,640)	87	(3.7)
5	6,685	(3,032)	108	(4.6)
6	7,535	(3,418)	129	(5.4)
7	8,370	(3,797)	150	(6.3)
8	9,225	(4,184)	171	(7.2)
9	9,985	(4,529)	192	(8.1)

CAPACITIES

Blower ..... 1,175 - 8,500 SCFM, 17.3 PSIG max
2,000 - 14,440 (N)m³/H, 1.2 bar
Exhauster ..... 1,175 - 8,500 ICFM, 16.2" Hg max
2,000 - 14,440 (A)m³/H, 411.5 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 25.10.16
Base pads ..... Molded synthetic rubber 0.5 (13) thick; see page 25.23.09

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.