Berryman Equipment Company
Your Blower Rebuild Experts
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LAMSON 1210 SERIES
TECHNICAL DATA SHEET

DESIGN

Air or gas
Number of stages……1-7 (60 Hz), 1-8 (50 Hz)
Inlet or outlet driven…… Inlet standard
Inlet connection……12" flange, matches 125# ANSI
Outlet Connection…… 12" flange, matches 125# ANSI
Operating speed…… 3,550 RPM (60 Hz)
2,960 RPM (50 Hz)
Maximum casing pressure…… 25 PSIG (1.38 bar)
Seals (air) ……Labyrinth type, carbon ring available
Seals (gas) …… Stuffing box type standard;
special seals available
Bearings …… Ball, life per AFBMA spec #B-10
Lubrication …….. grease standard, oil optional
Impeller diameter …….. 25.0 (635.0)
Impeller tip speed …….. 23,235 FPM (2,082m/m)
Direct drive …….. Standard shaft diameter
at coupling . 1.875 (47.63)
Vibration tolerance ……. 2 mils measured in vertical
plane at top of bearing housings

STAGE	Weight Machine & Base		WK^2	
1	2,065	(938)	18	(.8)
2	2,615	(1,186)	32	(1.3)
3	3,165	(1,436)	46	(1.9)
4	3,715	(1,685)	60	(2.5)
5	4,265	(1,935)	74	(3.1)
6	4,815	(2,184)	88	(3.7)
7	5,365	(2,434)	102	(4.3)
8	5,915	(2,683)	106	(4.5)

CAPACITIES

Blower …… 1,000-6,250 SCFM, 10.9 PSIG max
1,700-10,625 Sm 3/H, .75 bar
Exhauster …… 1,000-6,250 ICFM, 13" Hg max
1,700-10,625 Im3/H, 330mm 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)
Gas seals …….. Braided packing
Labyrinth seals …… Cast iron, with Babbitt insert
Joint sealing compound …….. RTV-Silicone rubber
Shaft …… Hot rolled carbon steel
Impellers …… Cast aluminum alloy
Base & Pedestal …… Steel
Base pads …… Molded synthetic rubber 0.5 (13) thick

Note:
Dimensions given in inches and (mm). Weights given in lbs and (kg). WK^2 given in lb-ft^2 and (kg-m^2).

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