Berryman Equipment Company
Your Blower Rebuild Experts
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LAMSON 810 SERIES
TECHNICAL DATA SHEET

DESIGN

Air or gas
Number of stages..... 1-9 (60&50 Hz)
Inlet or outlet driven..... Inlet standard
Inlet connection..... 8" flange, matches 125# ANSI
Outlet Connection..... 8" flange, matches 125# ANSI
Operating speed..... 3,550 RPM (60 Hz)
2,960 RPM (50 Hz)
Maximum casing pressure..... 20 PSIG (1.03 bar)
Seals (air) .....Labyrinth type
Seals (gas) ..... Stuffing box type standard;
special seals available
Bearings ..... Ball, life per AFBMA spe. #B-10
Lubrication ..... Grease standard, oil optional
Impeller diameter 24.1 (612.1)
Impeller tip speed ..... 22,398 FPM (6,827m/m)
Direct drive ..... Standard shaft diameter
At coupling . 1.875 (47.63)
Indirect drive ... Non-standard (V-belts and sheaves)
Vibration tolerance ... 1.25 mils measured in vertical
plane at top of bearing housing (.032mm)

STAGE	Weight Machine & Base		WK^2	
1	1,195	(542)	13	(.5)
2	1,505	(683)	23	(1.0)
3	1,820	(826)	33	(1.4)
4	2,170	(984)	43	(1.8)
5	2,445	(1,109)	53	(2.2)
6	2,900	(1,315)	63	(2.7)
7	3,175	(1,440)	73	(3.1)
8	3,555	(1,613)	83	(3.5)
9	3,830	(1,737)	93	(3.9)

CAPACITIES

Blower ..... 450-2,800 SCFM, 14.0 PSIG max
765-4,760 Sm 3/H, .97 bar
Exhauster ..... 450-3,000 ICFM, 15.0" Hg max
765-5,100 Im3/H, 381mm 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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