

US VACUUM PUMPS LLC

LRH-400/500/600/850 BARE SHAFT CONSTRUCTION W/ MECHANICAL SEAL



U.S. VACUUM LRH pumps are Two stage liquid ring vacuum pumps capable of producing a vacuum to 29" Hg . The pumps are available in various materials of construction (FB = Iron/Bronze, FS = Iron/Stainless steel, SS = All stainless steel).

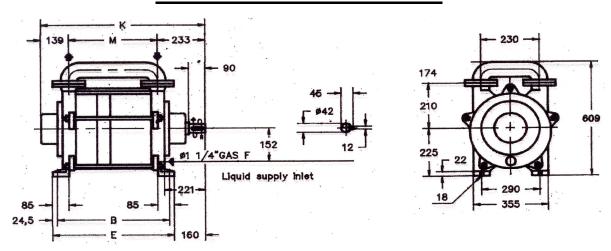
Pumps are provided with threaded connections for service liquid, pump draining, vacuum relief valve and companion flanges. Optional items include inlet check valve, vacuum relief valve, flow control, solenoid valve, vacuum and temperature gauges.

Pumps can also come as completely packaged units using water or water as a seal fluid.

TECHNICAL DATA

PUMP TYPE		LRH 400	LRH 500	LRH 600	LRH 850
Pumping Capacity (@ 25" Hg)	CFM	400	500	580	840
Speed	RPM	1750	1750	1150	1150
Motor-Installed power	HP	40	50	60	75
Average service liquid flow	GPM	10	12.5	25	30
Noise level at 60 Torr	db(A)	79	79	82	82
Minimum suction pressure	Torr	25	25	25	25

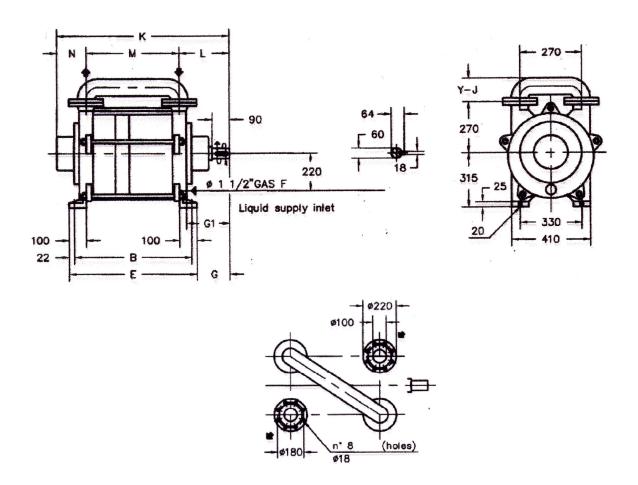
LRH-400/500 Dimensions



PUMP TYPE	В	Е	М	K	Weight Lbs	
LRH 400	575	624	475	847	484	
LRH 500	660	709	560	932	528	

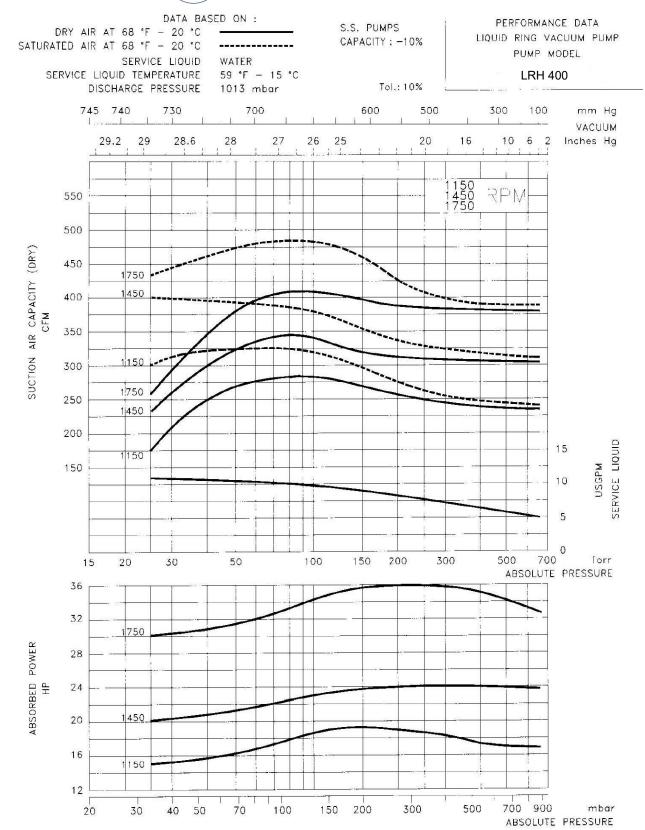
NOTE: Dimensions in mm (1" = 25.4 mm)

LRH-600/850



PUMP TYPE	В	E	M	Y	J	G	G1	K	L
LRH 600	672	716	546	207	225	150	220	1068	235
LRH 850	822	866	696	207	225	150	220	1168	235





DATA BASED ON : PERFORMANCE DATA S.S. PUMPS DRY AIR AT 68 °F - 20 °C LIQUID RING VACUUM PUMP CAPACITY: -10% SATURATED AIR AT 68 °F - 20 °C PUMP MODEL SERVICE LIQUID WATER LRH 500 SERVICE LIQUID TEMPERATURE 59 °F - 15 °C 1013 mbar Tol.: 10% DISCHARGE PRESSURE 300 100 745 740 730 700 600 500 300 mm Hg VACUUM 10 6 2 Inches Hg 29.2 29 28.6 28 27 26 25 20 620 RPM 580 1750 540 SUCTION AIR CAPACITY (DRY)
CFM 1450 500 460 1150 420 380 340 1750 1450 SERVICE LIQUID 300 1150 15 260 10 500 700 100 200 300 30 50 150 15 20 ABSOLUTE PRESSURE 60 50 ABSORBED POWER HP 40 1750 30 1450 20 1150 10 70 100 150 200

40 50

20

30

300

500

700 900

ABSOLUTE PRESSURE

mbar

DATA BASED ON : PERFORMANCE DATA S.S. PUMPS DRY AIR AT 68 °F - 20 °C LIQUID RING VACUUM PUMP CAPACITY: -10% SATURATED AIR AT 68 °F - 20 °C PUMP MODEL SERVICE LIQUID WATER LRH-600 SERVICE LIQUID TEMPERATURE 59 °F - 15 °C DISCHARGE PRESSURE 1013 mbar Tol.: 10% 745 740 700 730 600 500 300 100 mm Hg VACUUM 29.2 29 28.6 28 27 26 25 20 16 10 6 2 Inches Hg 1150 RPM 700 960 880 SUCTION AIR CAPACITY (DRY) 600 1150 960 880--500 400 1150 SERVICE LIQUID 40 960 300 880 30 20 10 150 200 300 500 700 Torr 30 50 100 15 20 ABSOLUTE PRESSURE 60 50 1150 ABSORBED POWER 40 30 880 20 10

70 100

50

40

30

150 200

300

700 900

ABSOLUTE PRESSURE

500

0

20



