High Vacuum Performance (Dry Air)

Model Number (Inlet x Outlet Size) measured in inches			Vacuum in Inches Hg.	4	12	20	22.5	25	27.5	28	28.7	28.9	Average Service Liquid Flow USGPM
			Absolute Pressure in Inches Hg.	25.92	17.92	9.92	7.42	4.92	2.42	1.92	1.22	0.98	
			Absolute Pressure in mm Hg.	658	455	252	188	125	61.5	48.8	31	25	
	Speed	Horsepower		CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	
LPH 25003 (1¼ x 1¼)	3500	2		13.5	14.5	14.9	14.9	14.5	11.5	11.0	7.0	-	1.4
LPH 25007 (1¼ x 1¼)	3500	3		27.0	30.0	31.0	31.0	31.0	26.5	23.0	12.0	-	1.4
LPH 3704 (1½ x 1½)	1150	3		25	25	25	25	25	21	18	-	-	4
	1750	5		37	37	37	42	42	33	29	20	17	4
LPH 3708 (1½ x 1½)	1150	5		42	42	44	44	44	43	40	-	-	5
	1750	7.5		70	70	70	75	74	62	55	41	30	5
LPH 45312 (1½ x 1½)	1150	5		54	54	57	61	66	68	64	48	42	3
	1750	7.5		88	90	102	110	112	102	95	70	61	3
LPH 45317 (1½ x 1½)	1150	5		60	67	74	80	87	82	78	58	48	4
	1750	10		105	105	150	155	150	136	125	90	73	4
LPH 55312 (2 x 2)	1150	7.5		106	106	118	123	124	119	110	82	71	10
	1750	*15		141	141	177	196	199	186	173	130	117	10
LPH 55316 (2 x 2)	1150	10		112	112	135	145	148	130	118	87	76	11
	1750	20		200	200	228	244	248	230	210	149	122	11
LPH 55320 (2 x 2)	1150	15		117	117	147	157	160	143	131	106	82	13
	1750	25		206	206	247	302	315	290	265	183	148	13
LPH 65320 (2½ x 2½)	1150	15		194	194	200	210	220	220	215	175	160	9
	1450	25		265	267	285	285	290	290	270	210	190	9
	1750	30		324	325	330	340	345	320	305	235	210	9
LPH 65327 (2½ x 2½)	1150	20		235	232	245	255	280	280	260	200	180	9
	1450	30		320	320	330	340	350	350	335	240	200	9
	1750	40		375	375	385	395	410	395	360	255	210	9
LPH 75320 (4 x 4)	880	40		370	385	420	445	460	430	405	315	295	19
	975	40		410	415	470	500	515	480	455	365	335	19
	1030	*40		425	430	485	515	535	495	470	370	335	19
	1150	*50		445	460	515	545	570	530	490	375	340	19
LPH 75330 (4 x 4)	880	50		510	535	610	635	670	600	535	400	380	20
	975	50		565	590	670	700	740	675	615	455	390	20
	1030	60		580	620	700	730	770	695	630	485	395	20
	1150	75		595	655	745	770	830	730	665	470	400	20
LPH 75340 (4 x 4)	880	50		665	665	700	755	850	810	740	510	460	21
	975	60		735	740	800	850	930	905	840	600	510	21
	1030	*60		760	770	835	885	955	925	860	630	525	21
	1150	100		800	820	890	940	995	955	890	650	525	21
LPH 85340 (6 x 6)	700	100		1075	1110	1165	1180	1180	1105	1005	780	695	38
	735	100		1120	1175	1220	1230	1235	1180	1080	860	765	38
	880	125		1300	1325	1440	1465	1490	1450	1375	1010	840	38
LPH 85353 (6 x 6)	700	*100		1275	1290	1400	1460	1490	1460	1360	1080	980	50
	735	125		1325	1340	1430	1490	1540	1520	1400	1140	1030	50
	880	150		1500	1550	1690	1760	1820	1770	1610	1250	1130	50
LPH 95354 (8 x 8)	465	125		1340	1470	1640	1690	1710	1630	1550	1220	1030	71
	600	*150		1960	1980	2070	2100	2100	1980	1900	1440	1180	71
	700	*200		2325	2380	2460	2470	2470	2280	2130	1650	1295	71
LPH 95367 (8 x 8)	465	125		1540	1600	1770	1870	1980	1980	1930	1650	1295	76
	600	200		2050	2130	2320	2460	2540	2450	2340	1900	1530	76
	700	250		2420	2500	2660	2780	2860	2770	2640	2160	1650	76
LPH 10534 (8 x 8)	400	200		2475	2500	2660	2850	2980	2950	2850	2350	1975	108
	490	*250		3130	3175	3400	3640	3750	3600	3450	2800	2260	108
	590	350		3575	3675	4000	4220	4350	4180	3950	3100	2475	108
LPH 11535 (10 x 10)	335	*250		3530	3540	3820	4050	4270	4300	4120	3400	2885	147
	415	*350		4520	4650	4950	5180	5360	5300	5030	3900	3240	147
	470	450		4800	5050	5540	5750	6050	5850	5570	4400	3500	147

* Horsepower given is for motors with 1.15 service factor only. Use next larger size with 1.0 service factor motors.

This data represents average values for pumps in standard material of construction discharging against atmospheric pressure at sea level. Capacity in cubic feet per minute at inlet pressure for air at 20°C (68°F) and using 15°C (59°F) water as the service liquid. When handling 100 % saturated air see performance data on following pages.

IF REQUIREMENTS ARE IN THE DARK BLUE AREA, A MORE EFFICIENT SELECTION CAN BE MADE FROM PUMPS LISTED ON PRECEDING PAGE.

High Vacuum Performance (Saturated Air)

Model Number (Inlet x Outlet Size) measured in inches			Vacuum in Inches Hg.	4	12	20	22.5	25	27.5	28	28.7	28.9	Average Service Liquid Flow USGPM
			Absolute Pressure in Inches Hg.	25.92	17.92	9.92	7.42	4.92	2.42	1.92	1.22	0.98	
			Absolute Pressure in mm Hg.	658	455	252	188	125	61.5	48.8	31	25	
	Speed	Horsepower		CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	
LPH 25003 (1 ¼ x 1¼)	3500	2		13.7	14.9	15.6	15.8	15.9	14.0	14.2	11.1	-	1.4
LPH 25007 (1¼ x 1¼)	3500	3		27.5	30.8	32.4	32.9	34.0	32.3	29.7	19.0	-	1.4
LPH 3704 (1½ x 1½)	1150	3		25	26	26	27	27	25	23	-	-	4
	1750	5		37	37	38	44	46	40	37	32	32	4
LPH 3708 (1½ x 1½)	1150	5		43	43	46	47	48	52	52	-	-	5
	1750	7.5		71	72	73	80	81	76	71	65	56	5
LPH 45312 (1½ x 1½)	1150	5		55	55	60	65	72	83	83	76	78	3
	1750	7.5		90	92	107	117	123	124	123	111	114	3
LPH 45317 (1 ½ x 1½)	1150	5		61	69	77	85	95	100	101	92	89	4
	1750	10		107	108	157	165	164	166	162	142	136	4
LPH 55312 (2 x 2)	1150	7.5		108	109	123	131	136	145	142	130	132	10
	1750	*15		143	145	185	208	218	227	224	205	218	10
LPH 55316 (2 x 2)	1150	10		114	115	141	154	162	158	153	137	141	11
	1750	20		204	205	238	259	272	280	271	235	227	11
LPH 55320 (2 x 2)	1150	15		119	120	154	167	175	174	169	167	153	13
	1750	25		210	211	258	321	345	353	343	289	275	13
LPH 65320 (2½ x 2½)	1150	15		197	199	209	223	241	268	278	276	298	9
	1450	25		270	274	298	303	318	353	349	332	354	9
	1750	30		330	333	345	361	378	390	394	371	391	9
LPH 65327 (2 ½ x 2½)	1150	20		239	238	256	271	307	341	336	316	335	9
	1450	30		326	328	345	361	383	426	433	379	372	9
	1750	40		382	384	403	419	449	481	465	403	391	9
LPH 75320 (4 x 4)	880	40		377	395	439	472	504	524	524	498	549	19
	975	40		417	425	491	531	564	585	588	577	624	19
	1030	*40		432	441	507	547	586	603	608	585	624	19
	1150	*50		453	472	538	579	624	646	633	592	633	19
LPH 75330 (4 x 4)	880	50		519	548	638	674	734	731	692	632	707	20
	975	50		575	605	701	743	811	822	795	719	726	20
	1030	60		590	636	732	775	844	847	814	766	735	20
	1150	75		605	672	779	818	909	889	860	743	745	20
LPH 75340 (4 x 4)	880	50		677	682	732	802	931	987	957	806	856	21
	975	60		748	759	836	902	1019	1102	1086	948	949	21
	1030	*60		773	789	873	940	1046	1127	1112	995	977	21
	1150	100		814	841	931	998	1090	1163	1151	1027	977	21
LPH 85340 (6 x 6)	700	100		1094	1138	1218	1253	1293	1346	1299	1232	1294	38
	735	100		1140	1205	1276	1306	1353	1437	1396	1359	1424	38
	880	125		1323	1358	1506	1555	1632	1766	1778	1596	1564	38
LPH 85353 (6 x 6)	700	*100		1297	1323	1464	1550	1632	1778	1758	1706	1824	50
	735	125		1348	1374	1495	1582	1687	1851	1810	1801	1917	50
	880	150		1526	1589	1767	1869	1994	2156	2081	1975	2103	50
LPH 95354 (8 x 8)	465	125		1364	1507	1715	1794	1873	1985	2004	1927	1917	71
	600	*150		1994	2030	2164	2230	2301	2412	2456	2275	2196	71
	700	*200		2366	2440	2572	2622	2706	2777	2754	2607	2411	71
LPH 95367 (8 x 8)	465	125		1567	1640	1851	1985	2169	2412	2495	2607	2411	76
	600	200		2086	2184	2426	2612	2783	2984	3025	3002	2848	76
	700	250		2463	2563	2781	2952	3133	3374	3413	3413	3071	76
LPH 10534 (8 x 8)	400	200		2519	2563	2781	3026	3265	3593	3684	3713	3676	108
	490	*250		3185	3255	3555	3865	4108	4385	4460	4424	4207	108
	590	350		3638	3768	4182	4480	4765	5091	5107	4898	4607	108
LPH 11535 (10 x 10)	335	*250		3592	3629	3994	4300	4678	5237	5326	5372	5370	147
	415	*350		4600	4767	5176	5500	5872	6455	6503	6162	6031	147
	470	450		4884	5177	5793	6105	6628	7125	7201	6952	6515	147

* Horsepower given is for motors with 1.15 service factor only. Use next larger size with 1.0 service factor motors.

This data represents average values for pumps in standard material of construction discharging against atmospheric pressure at sea level. Capacity in cubic feet per minute at inlet pressure for air with 100% saturation at 20°C (68°F) and using 15°C (59°F) water as the service liquid. When handling saturated air at higher temperatures the capacity of vacuum pumps will increase substantially; performance is available upon application.

IF REQUIREMENTS ARE IN THE DARK BLUE AREA, A MORE EFFICIENT SELECTION CAN BE MADE FROM PUMPS LISTED ON PRECEDING PAGE.