L SERIES

Bare Block Product Data

LE Data Single Stage, Two Cylinder **Two Stage, Three Cylinder**

Model		LE15	LE22	LE40	LE55	LE75	LE110	LE150
General								
Horsepower HP		2	3	5	7.5	10	15	20
Nominal Speed - RPM		1800	1800	1800	1800	1800	1800	1800
Minimum Speed - RPM		1000	1000	1000	1000	1000	1000	1000
Max. Operating Pressure - psig		145	145	145	145	145	145	145
Min. Operating Pressure - psig for Unloading Device		15	15	15	15	15	15	15
Max. Ambient Temperature °F		104	104	104	104	104	104	104
Min. Ambient Temperature °F		32	32	32	32	32	32	32
Piston Displacement @ Nominal Speed - CFM		17.37	21.40	38.78	48.52	48.52	66.11	84.76
Performance[1]								
Free Air Delivery (CFM) at Full Load. Nominal Speed and Effective Working Pressures Stated.	30 psig	12.29	15.89	27.54	37.08	38.14	47.46	60.39
	60 psig	10.80	13.56	24.58	33.48	37.71	47.04	59.96
	100 psig	8.26	10.80	20.55	28.82	36.87	46.40	59.75
	145 psig	6.14	8.68	17.37	24.79	36.65	45.77	59.12
Shaft Input (BHP) at Full Load. Nominal Speed and Effective Working Pressure Stated.	30 psig	1.93	2.66	4.81	5.68	8.00	10.32	15.27
	60 psig	2.45	2.62	5.60	7.64	8.97	11.72	16.81
	100 psig	2.52	3.47	6.20	8.29	10.41	13.63	19.17
	145 psig	2.48	3.46	6.84	8.58	11.55	15.13	21.16
Engineering Data								
Temperature (°F) of the Air (approx.) Leaving the Cylinder Heads at Continuous Operation and Nominal Speed [1]	60 psig	185	208	280	269	235	304	374
	100 psig	183	216	313	297	241	307	383
	150 psig	171	208	329	311	246	315	383

[1] Reference Conditions
- 14.5 psia
- 0% RH
- 68°F

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Model		LE15	LE22	LE40	LE55	LE75	LE110	LE150
Max. Temperature (°F) of the Air Leaving the Compressor at Continuous Operation (1)	°F	120	129	176	165	138	153	261
Max. Inclination in All Directions		15°	15°	15°	15°	15°	15°	15°
Oil Sump Capacity – Gallons		.21	.21	.21	.37	.44	.44	.44
Lubricating Oil Consumption in the Cylinders	oz/hr	.007	.011	.018	.025	.031	.045	.063
Cylinder Bore-LP	in.	2 x 2.96	2 x 2.96	2 x 3.55	2 x 3.55	2 x 3.55	2 x 4.14	2 x 4.14
Cylinder Bore-HP	in.					2 x 1.97	2 x 2.95	2 x 2.95
Cylinder Stroke	in.	1.22	1.50	1.89	2.36	2.36	2.36	3.03
Rotation of Pump when Facing Shroud for Effective Cooling		EITHER	EITHER	EITHER	EITHER	CCW	CCW	CCW
Cooling Fan Air Flow (CFM) at Nominal Speed	cfm	424	424	424	1,271	1,942	1,942	1,942
Noise Level - dB(A)		82	83	83	84	83	84	85
Weights of Bare Block								
- Net	lbs.	66	66	66	99	165	165	165
-Shipping (approx.)	lbs.	88	88	88	135	375	375	375
Dimensions	in.							
Bare Block	(LxWxH)	15 x 20 x 20	15 x 20 x 20	15 x 20 x 20	18 x 23 x 24	21 x 31 x 25	21 x 31 x 25	21 x 31x 25
Power Pack	(LxWxH)	25 x 24 x 29	25 x 24 x 29	25 x 24 x 29	31 x 26 x 34	44 x 35 x 35	44 x 35 x 35	44 x 35 x 35
Discharge Valve Connection Size	in.	.50	.50	.50	.50	.50	.50	.50