

Variable Speed – 50/60 Hz

PRODUCT DATA		UNITS	10..0 HP (Configurator: LRS7-11D)		
Performance (1)					
% Inlet Capacity	Package Pressure (configurator pick)	psig / barg	110	130	190
	Airend Model at Configurator Pressure		EK76	EK76	EK76
100	Capacity (2)	acfm / acmm	42.9 / 1.21	37.6 / 1.06	27.9 / 0.79
	Package Input Power (AC) (3,4)	kW	9.5	9.5	9.7
	Specific Power (AC) (x100)	kw/cfm / kw/cmm	22.3 / 7.88	25.3 / 8.93	35.0 / 12.35
	Airend Speed	RPM	4475	4014	3192
90	Capacity (2)	acfm / acmm	38.6 / 1.09	33.8 / 0.96	25.1 / 0.71
	Package Input Power (AC) (3,4)	kW	8.7	8.6	9.0
	Specific Power (AC) (x100)	kw/cfm / kw/cmm	22.4 / 7.92	25.6 / 9.03	35.8 / 12.63
	Airend Speed	RPM	4047	3642	2914
80	Capacity (2)	acfm / acmm	34.3 / 0.97	30.0 / 0.85	22.3 / 0.63
	Package Input Power (AC) (3,4)	kW	7.8	7.8	8.2
	Specific Power (AC) (x100)	kw/cfm / kw/cmm	22.7 / 8.01	26.0 / 9.20	37.0 / 13.06
	Airend Speed	RPM	3625	3272	2640
70	Capacity (2)	acfm / acmm	30.0 / 0.85	26.3 / 0.64	19.5 / 0.55
	Package Input Power (AC) (3,4)	kW	6.9	7.0	7.6
	Specific Power (AC) (x100)	kw/cfm / kw/cmm	23.1 / 8.17	26.8 / 9.45	38.9 / 13.73
	Airend Speed	RPM	3200	2905	2365
60	Capacity (2)	acfm / acmm	25.7 / 0.73	22.5 / 0.64	16.7 / 0.47
	Package Input Power (AC) (3,4)	kW	6.1	6.3	7.0
	Specific Power (AC)	kw/cfm / kw/cmm	23.9 / 8.44	27.9 / 9.85	41.7 / 14.73
	Airend Speed	RPM	2782	2535	2092
50	Capacity (2)	acfm / acmm	21.4 / 0.61	18.8 / 0.53	13.9 / 0.39
	Package Input Power (AC) (3,4)	kW	5.4	5.6	6.4
	Specific Power (AC) (x100)	kw/cfm / kw/cmm	25.1 / 8.87	29.6 / 10.5	46.0 / 16.26
	Airend Speed	RPM	2365	2165	1820
40	Capacity (2)	acfm / acmm	17.2 / 0.49	15.0 / 0.43	
	Package Input Power (AC) (3,4)	kW	4.7	4.9	
	Specific Power (AC)	kw/cfm / kw/cmm	27.1 / 9.6	32.5 / 11.47	
	Airend Speed	RPM	1954	1800	
Minimum Capacity	Capacity (2)	acfm / acmm	12.6 / 0.36	11.8 / 0.33	13.7 / 0.39
	Package Input Power (AC) (3,4)	kW	3.9	4.3	6.4
	Specific Power (AC) (x100)	kw/cfm / kw/cmm	31.1 / 10.97	36.6 / 12.94	46.4 / 16.4
	Airend Speed	RPM	1519	1481	1800
Unloaded Package Input Power (AC)		kW	3.1	2.8	2.3
Minimum Operating Pressure		psig / barg	85 / 5.86		
Airend Data		psig	110	130	190
Drive Type		N/A	V-Belt coupled		
Airend Speed (male rotor, maximum)		RPM	4475	4014	3192
Male / Female Rotor Diameter		mm	76.0 / 60.0		
Male / Female Rotor Tip Speed, maximum		Meters / sec	17.8 / 11.7	16.0 / 10.5	12.7 / 8.4

NOTES:

(1) Capacity and Power measured in accordance with ISO 1217 Annex C.

(2) acfm is actual cubic feet per minute at inlet conditions, acmm is in cubic meters per minute.

(3) Package Input Power includes main motor and control input power

(4) Power noted with TEFC motor

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PRODUCT DATA			UNITS	10.0 HP (Configurator: LRS7-11D)		
General Package Data						
System Capacity (oil)			Gal / Lit	1.3 / 5		
Oil Flow @ Configured Pressure			gpm / lpm	5.6 / 21.2	6.0 / 22.7	7.3 / 27.6
Air / Oil Reservoir Capacity (oil)			Gal / Lit	NA		
Air / Oil Reservoir Volume (air)			Gal / Lit	NA		
Oil Cooler Heat Rejection			Btu/Min / kW	375 / 6.6	381 / 6.7	409 / 7.2
Aftercooler Heat Rejection			Btu/Min / kW	54.3 / 1.0	47.4 / 0.8	35.2 / 0.6
Radiated Heat Rejection			Btu/Min / kW	33.3 / 0.6	33.0 / 0.6	33.9 / 0.6
Package Discharge Air Temperature Rise Above Ambient			°F / °C	27.4 / 15.2	23.7 / 13.2	20.5 / 11.4
Min - Max Operating Temperature			°F / °C	32-104 / 0-40		
Noise Level Data (5)						
Base Mounted, 110 psig			dB(A)	70		
240 Gallon Tank Mounted, 110 psig			dB(A)	72		
Main Drive Motor Data						
Drive Motor Nominal Power			HP / kW	10.0 / 7		
Drive Motor Speed (7)			RPM	3510		
Drive Motor Service Factor			dec.	1.2		
Drive Motor Minimum Nameplate Efficiency (TEAO)			%	90.2		
Drive Motor Minimum Insulation Class			N/A	F		
Full load current maximum @ 575V (6)			Amps	13.2		
Full load current maximum @ 460V (6)			Amps	16.5		
Full load current maximum @ 380V (6)			Amps	20.0		
Full load current maximum @ 230V (6)			Amps	33.0		
Air Cooled Package Data						
Cooling Fan Motor Speed			RPM	See Driver Motor Speed		
Total Ventilation Flow Rate			cfm / cmm	1368 / 38.7		
Allowable external additional backpressure			in H ₂ O / Pa	0.1 / 25		
Connections						
Discharge Connection Size			NPT	3/4		
Moisture Drain Connection Size			NPT	1/8		
Oil Drain Drain Connection Size			BSPP	1/2		
Dimensions and Weights						
Package type	Units	Base Mtd	80 Gallon		120 Gallon	
			Less Dryer	With Dryer (8)	Less Dryer	With Dryer (8)
Length	in. / mm.	26.5 / 673	52.0 / 1321	53.4 / 1356	73.2 / 1859	71.5 / 1816
Width	in. / mm.	24.8 / 630	32.0 / 819	32.0 / 819	32.0 / 819	32.0 / 819
Height	in. / mm.	41.3 / 1049	66.3 / 1684	66.3 / 1684	66.3 / 1684	66.3 / 1684
Weight GSRN	lb. / kg.	489 / 222	901 / 409	1038 / 471	984 / 446	1121 / 508
Weight XGNC	lb. / kg.			989 / 449		1072 / 486
Outline Dwg.		304KBA804	302KBA804	300EJB804 / 310ECB804	303KBA804	301EJB804 / 311ECB804
NOTES: (5) Sound level measurement in accordance with ISO 2151, while operating at 100% load. (6) Wiring, wire sizes, and over current protective devices utilized to power the compressor should be selected and installed in accordance with all applicable local electrical codes. NEC table 430.250 can be utilized to determine wire sizing only for fixed speed compressors, however local electrical codes always take precedence and should be consulted prior to sizing and running wire to operate the compressor. (7) Main motor is 3Ph-60Hz while VFD is 3Ph-50/60Hz input and 3Ph/ variable Hz output (8) Dryers are only offered for 60hz packages.					240 Gallon	
				Package type	Less Dryer	With Dryer (8)
				Length in./mm.	90 / 2285	88.5 / 2248
				Width in./mm.	37.0 / 940	37.0 / 940
				Height in./mm.	72.3 / 1836	72.3 / 1836
				Weight GSRN lb./ kg.	1343 / 609	1469 / 666
				Weight XGNC lb./ kg.		1420 / 644
Outline Dwg.	303ECA804	302EJB804 / 312ECB804				

NOTES:

(5) Sound level measurement in accordance with ISO 2151, while operating at 100% load.

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(7) Main motor is 3Ph-60Hz while VFD is 3Ph-50/60Hz input and 3Ph/ variable Hz output

(8) Dryers are only offered for 60hz packages.