

Variable Speed – 50/60 Hz

PRODUCT DATA		UNITS	15.0 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	62.09 / 1.76	56.91 / 1.61	43.47 / 1.23
	Package Input Power (AC) (3,4)	kW	14.2	14.1	13.9
	Specific Power (AC) (x100)	kw/cfm / kw/cmm	22.8 / 8.06	24.7 / 8.74	32.0 / 11.29
	Airend Speed	RPM	6484	5972	4803
90	Capacity (2)	acfm / acmm	55.87 / 1.58	51.23 / 1.45	39.13 / 1.11
	Package Input Power (AC) (3,4)	kW	12.5	12.6	12.6
	Specific Power (AC) (x100)	kw/cfm / kw/cmm	22.4 / 7.91	24.6 / 8.69	32.3 / 11.40
	Airend Speed	RPM	5785	5380	4348
80	Capacity (2)	acfm / acmm	49.68 / 1.41	45.54 / 1.29	34.77 / 0.98
	Package Input Power (AC) (3,4)	kW	11.0	11.2	11.4
	Specific Power (AC) (x100)	kw/cfm / kw/cmm	22.2 / 7.83	24.6 / 8.70	32.9 / 11.62
	Airend Speed	RPM	5130	4800	3900
70	Capacity (2)	acfm / acmm	43.47 / 1.43	39.85 / 1.13	30.42 / 0.86
	Package Input Power (AC) (3,4)	kW	9.6	9.9	10.3
	Specific Power (AC) (x100)	kw/cfm / kw/cmm	22.2 / 7.84	24.9 / 8.81	34.0 / 11.99
	Airend Speed	RPM	4495	4230	3462
60	Capacity (2)	acfm / acmm	37.26 / 1.05	34.14 / 0.97	26.10 / 0.74
	Package Input Power (AC) (3,4)	kW	8.4	8.7	9.3
	Specific Power (AC)	kw/cfm / kw/cmm	22.5 / 7.95	25.6 / 9.04	35.6 / 12.58
	Airend Speed	RPM	3380	3670	3034
50	Capacity (2)	acfm / acmm	31.06 / 0.88	28.43 / 0.81	21.75 / 0.62
	Package Input Power (AC) (3,4)	kW	7.2	7.6	8.3
	Specific Power (AC) (x100)	kw/cfm / kw/cmm	23.3 / 8.24	26.8 / 9.46	38.3 / 13.52
	Airend Speed	RPM	1800	3120	2610
40	Capacity (2)	acfm / acmm	24.85 / 0.70	22.78 / 0.65	
	Package Input Power (AC) (3,4)	kW	6.2	6.6	
	Specific Power (AC)	kw/cfm / kw/cmm	24.9 / 8.81	28.9 / 10.22	
	Airend Speed	RPM	2705	2585	
Minimum Capacity	Capacity (2)	acfm / acmm	18.66 / 0.53	18.33 / 0.52	17.67 / 0.50
	Package Input Power (AC) (3,4)	kW	5.2	5.8	7.5
	Specific Power (AC) (x100)	kw/cfm / kw/cmm	28.1 / 9.92	31.9 / 11.25	42.3 / 14.93
	Airend Speed	RPM	2143	2170	2219
Unloaded Package Input Power (AC)		kW	4.3	4.0	3.2
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	6484	5972	4803
Male / Female Rotor Diameter		mm	76.0 / 60.0		
Male / Female Rotor Tip Speed, maximum		Meters / sec	25.7 / 16.9	23.8 / 15.6	19.1 / 12.6

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

Variable Speed – 50/60 Hz

PRODUCT DATA			UNITS	15.0 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	553 / 9.7	562 / 9.9	578 / 10.2	
Aftercooler Heat Rejection			Btu/Min / kW	78.5 / 1.4	72.0 / 1.3	55.0 / 1.0	
Radiated Heat Rejection			Btu/Min / kW	49.8 / 0.9	49.5 / .9	48.9 / .9	
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)	71			
240 Gallon Tank Mounted, 110 psig			dB(A)	73			
Main Drive Motor Data							
Drive Motor Nominal Power			HP / kW	15.0 / 11			
Drive Motor Speed (7)			RPM	3520			
Drive Motor Service Factor			dec.	1.2			
Drive Motor Minimum Nameplate Efficiency (TEAO)			%	91.0			
Drive Motor Minimum Insulation Class			N/A	F			
Full load current maximum @ 575V (6)			Amps	18.4			
Full load current maximum @ 460V (6)			Amps	23.0			
Full load current maximum @ 380V (6)			Amps	27.8			
Full load current maximum @ 230V (6)			Amps	46.0			
Air Cooled Package Data							
Cooling Fan Motor Speed			RPM	See Driver Motor Speed			
Cooling Fan Motor Power (heat exchanger, main motor)			kW	N.A.			
Total Ventilation Flow Rate			cfm / cmm	1368 / 38.7			
Allowable external additional backpressure			in H ₂ O / Pa	0.1 / 25			
Aftercooler Design Approach Temperature (Air Station)			Δ °F / °C	17 / 9.4			
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.	509 / 231	901 / 409	1045 / 474	984 / 446	1128 / 512	
Weight XGNC	lb. / kg.			995 / 451		1078 / 489	
Outline Dwg.		304KBA804	302KBA804	300EJB804 / 313ECB804	303KBA804	301EJB804 / 314ECB804	
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.				Package type	240 Gallon		
				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.	1362 / 618	1506 / 683
				Weight XGNC	lb. / kg.		1456 / 660
Outline Dwg.		303ECA804	302EJB804 / 315ECB804				

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.