

Fixed Speed – 60 Hz

PRODUCT DATA		Units	L18						
Performance (1)									
Working Pressure	PACKAGE PRESSURE (configurator pick)	psig	110	130	190				
		bar g	7.6	9.0	13.1				
Airend Model at configurator pressure / Sheave Ratio			EK100NK / 1.286	EK100NK / 1.212	EK100NK / 1.000				
100 psig 6.9 bar g	Capacity (2)	acfm (m ³ /min)	110.5 (3.13)	104.2 (2.95)	83.9 (2.38)				
	Package Input Power (3)	kW	21.5	20.1	16.7				
	Specific Power	kW/100 cfm	19.43	19.30	19.93				
	Main Drive Motor Power	bhp	26.9	25.2	21.0				
110 psig 7.6 bar g	Capacity (2)	acfm (m ³ /min)	110.2 (3.12)	103.9 (2.94)	83.6 (2.37)				
	Package Input Power (3)	kW	22.4	21.0	17.38				
	Specific Power	kW/100 cfm	20.33	20.20	20.78				
	Main Drive Motor Power	bhp	28.1	26.3	21.8				
125 psig 8.6 bar g	Capacity (2)	acfm (m ³ /min)		103.3 (2.92)	83.1 (2.35)				
	Package Input Power (3)	kW		22.3	18.4				
	Specific Power	kW/100 cfm		21.61	22.10				
	Main Drive Motor Power	bhp		28.0	23.0				
130 psig 9 bar g	Capacity (2)	acfm (m ³ /min)		103.0 (2.92)	82.9 (2.35)				
	Package Input Power (3)	kW		22.8	18.7				
	Specific Power	kW/100 cfm		22.09	22.55				
	Main Drive Motor Power	bhp		28.5	23.4				
145 psig 10 bar g	Capacity (2)	acfm (m ³ /min)				82.2 (2.33)			
	Package Input Power (3)	kW				19.7			
	Specific Power	kW/100 cfm	23.98						
	Main Drive Motor Power	bhp	24.7						
175 psig 12.1 bar g	Capacity (2)	acfm (m ³ /min)					80.5 (2.28)		
	Package Input Power (3)	kW					21.9		
	Specific Power	kW/100 cfm					27.25		
	Main Drive Motor Power	bhp					27.5		
190 psig 13.1 bar g	Capacity (2)	acfm (m ³ /min)							79.6 (2.25)
	Package Input Power (3)	kW							23.1
	Specific Power	kW/100 cfm		28.96					
	Main Drive Motor Power	bhp		28.9					
Unloaded Package Input Power		kW		7.5	7.0				5.9
Maximum Operating Pressure		psig (bar g)		117 (8.07.0)	137 (9.4)				197 (13.6)
Minimum Operating Pressure		psig (bar g)	75 (5.2)						
Airend Data									
Drive Type		n/a	V-Belt	V-Belt	V-Belt				
Airend Speed (male rotor)		rpm	4533	4272	3525				
Male / Female Rotor Diameter		mm	101 / 83	101 / 83	101 / 83				
Male / Female Rotor Tip Speed		m/s	24 / 16	23 / 15	19 / 13				
General Package Data									
System Capacity - oil		gal (l)	2.5 (10)						
Oil Cooler Heat Rejection @ Configured Pressure		btu/min	1020	1036	1050				
Aftercooler Heat Rejection @ Configured Pressure		btu/min	255	259	262				
Nominal Oil Temperature Rise Across Airend		°F (°C)	26 (15)	25 (14)	18 (10)				
Approximate oil carryover rate		ppm	< 3						
Min / Max Operating Temperature		°F (°C)	34 / 113 (1 / 45)						
Noise Level Data (4)									
Free Field Noise Level		dB(A)	74						

NOTES:

(1) Data measured and stated in accordance with ISO1217 3rd Edition Annex C at the following conditions:

Air Intake: 1 bar(a) / 14.5 psia and 20°C / 68°F

Humidity: 0% (dry)

(2) acfm is actual cubic feet per minute at inlet conditions

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

(4) Measured in free field conditions per ISO 2151 using Parallelepiped Method with + 3 dB(A) tolerance

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PRODUCT DATA	Units	L18				
Electrical Data						
Nominal Motor Rating	hp (kW)	25 (18.5)				
Drive Motor Speed	rpm	3547@200V / 3564@230V / 3562@380V / 3564@460V / 3567@575V				
Drive Motor Service Factor	n/a	1.20				
Drive Motor Minimum Nameplate Efficiency	%	91.7%				
Drive Motor Min. Insulation Class	n/a	F				
Drive Motor Nominal Current (Per NEC) (6)	Amps @ V	78A@200V / 68A@230V / 46A@380V / 34A@460V / 27A@575V				
Nominal Full Load Package Current (6)	Amps @ V	69A@200V / 60A@230V / 36A@380V / 30A@460V / 24A@575V				
Starting current @ 200V/230V/380V/460V/575V (6)	Amps	Approx. 2.5 times full load current				
Air Cooled Package Data						
Cooling Fan Motor Speed	rpm	N/A				
Cooling Fan Motor Power	hp (kW)	N/A				
Fan Motor Nameplate Efficiency	%	N/A				
Total Ventilation Flow Rate	cfm (m ³ /min)	1943 (55)				
Max Total Added Static Pressure, 95°F/113°F	in H ₂ O (Pa)	0.80 / 0.16 (200 / 40)				
Size Of Cooling Air Inlet Aperture	inch (mm)	Diameter 14 (355)				
Size Of Cooling Air Outlet Aperture	inch (mm)	22.2 x 15.6 (564 x 396)				
Cooling air temp above ambient, approximate	°F (°C)	47 (26)				
Aftercooler Approach Temperature - above amb	°F (°C)	27 (15)				
Connections						
Discharge Connection Size	Inches NPT	1				
Oil Drain Connection Size	Inches NPT	1/2				
Condensate Drain Connection Size	Inches NPT	1/4				
Dimensions and Weights						
Package type	Units	Base Mounted	120 Gallon Receiver		240 Gallon Receiver	
			Less Dryer	With Dryer	Less Dryer	With Dryer
Length	in (mm)	32.3 (820)	75 (1905)	74.8 (1899)	91.6 (2328)	91.2 (2318)
Width	in (mm)	34.7 (881)	35 (889)	35 (889)	35 (889)	35 (889)
Height	in (mm)	50.2 (1274)	76.3 (1938)	76.3 (1938)	82.9 (2106)	82.9 (2106)
Weight	lbs (kg)	857 (389)	1298 (589)	1701 (772)	1593 (723)	1997 (906)
Outline Drawing - standard package	n/a	47763994	47749763			

NOTES:

(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) Gardner Denver policy is one of continuous improvement and we therefore reserve the right to alter specifications without prior notice.