



D10 ENGINEERING DATA SHEET

Engineering Data Sheet: D10
 Configurator Number: D10-15A
 Date: 03/08/2019
 Supersedes:

Fixed Speed – 60 Hz

PRODUCT DATA		Units	D10
Performance (1)			
Working Pressure	PACKAGE PRESSURE (configurator pick)	psig bar g	145 10
	Airend Model at configurator pressure / Pulley Ratio		DSC-002703 / 2.5
100 psig 6.9 bar g	Capacity (2)	acfm (m ³ /min)	34.5 (0.98)
	Package Input Power - AC (3,4)	kW	7.4
	Specific Power - AC	kW/100 cfm	21.5
	Main Drive Motor Power	bhp	8.7
110 psig 7.6 bar g	Capacity (2)	acfm (m ³ /min)	33.9 (0.96)
	Package Input Power - AC (3,4)	kW	7.7
	Specific Power - AC	kW/100 cfm	22.9
	Main Drive Motor Power	bhp	9.2
125 psig 8.6 bar g	Capacity (2)	acfm (m ³ /min)	33.0 (0.94)
	Package Input Power - AC (3,4)	kW	8.3
	Specific Power - AC	kW/100 cfm	25.0
	Main Drive Motor Power	bhp	9.8
145 psig 10.0 bar g	Capacity (2)	acfm (m ³ /min)	31.7 (0.90)
	Package Input Power - AC (3,4)	kW	9.0
	Specific Power - AC	kW/100 cfm	28.5
	Main Drive Motor Power	bhp	10.7
Unloaded Package Input Power - AC		kW	3.5
Minimum Operating Pressure		psig (bar g)	100 (6.9)
Airend Data			
Drive Type		n/a	Belt
Airend Speed (male rotor)		rpm	4380
Male / Female Rotor Diameter		mm	70.6 / 58.9
Male / Female Rotor Tip Speed		m/s	16.2 / 10.8
General Package Data			
System Capacity - oil		gal (l)	1.0 (3.8)
Oil flow @ configured pressure		gpm (l/min)	4.8 (18)
Air/Oil Reservoir Capacity - oil		gal (l)	0.6 (2.2)
Air/Oil Reservoir Volume - air		ft ³ (l)	0.2 (5.2)
Oil Cooler Heat Rejection		btu/min	433
Aftercooler Heat Rejection		btu/min	80
Radiated Heat Rejection		btu/min	79
Nominal Temperature Rise @ Configured Pressure		°F (°C)	27.0 (15)
Min / Max Operating Temperature		°F (°C)	50 / 104 (10 / 40)
Noise Level Data (5)			
Quiet Enclosed - AC		dB(A)	65

NOTES:

- (1) Capacity and Power measured in accordance with ISO 1217 Annex C.
- (2) acfm is actual cubic feet per minute at inlet conditions.
- (3) Package Input Power includes main motor and control input power.
- (4) Power noted with ODP motor.
- (5) Sound level measurement in accordance with ISO 2151.



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PRODUCT DATA	Units	D10	
Main Drive Motor Data			
Drive Motor Nominal Power	hp (kW)	10 (7.5)	
Drive Motor Speed	rpm	1760	
Drive Motor Service Factor	n/a	1.15	
Drive Motor Minimum Nameplate Efficiency - TEAO	%	89.5	
Drive Motor Min. Insulation Class	n/a	F	
Drive Motor Nominal Current (Per NEC Code) - 200V 3PH (6)	Amps	32.2	
Drive Motor Nominal Current (Per NEC Code) - 230V 3PH (6)	Amps	28	
Drive Motor Nominal Current (Per NEC Code) - 460V 3PH (6)	Amps	14	
Air Cooled Package Data			
Cooling Fan Motor Speed (7)	rpm	1760	
Fan Motor Nameplate Efficiency	%	N/A	
Total Ventilation Flow Rate	cfm (m ³ /min)	650 (18.4)	
Max Total Added Static Pressure	in H ₂ O (Pa)	0.1 (25)	
Aftercooler Design Approach Temperature - above amb	°F (°C)	27 (15)	
Connections			
Package type	Units	Base Mounted	120 Gallon with Dryer
Discharge Connection Size	" npt	3/4 (Male)	3/4 (Female)
Moisture Drain Tube Size - Dryer, Filter	mm OD	N/A	6 , 6
Ref. Dryer Power Supply - 1PH	V	N/A	115V/60Hz
Oil Drain Tube Size	" OD	1/2	
Dimensions and Weights			
Package type	Units	Base Mounted	120 Gallon with Dryer
Length	in (mm)	41 (1041)	77 (1956)
Width	in (mm)	27 (686)	27 (686)
Height	in (mm)	37 (940)	63 (1600)
Weight (8)	lbs (kg)	560 (254)	970 (440)
Outline Drawing - standard package	n/a	D1015-SE	D1015TD-SE

NOTES:

- (6) Main motor current per NEC table 430.250 to be used for wire sizing
- (7) Cooling fan is mounted on main motor
- (8) Weights based on DSC-002703 air end and 10hp/ODP Baldor motor



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