



NxB 18-22

April, 2016

Rotary screw compressor - oil injected - air cooled

CAP720 - NxB18-22

Fixed Speed Belt Drive (18 - 22 kW)

60 Hz US

		psi(g)	18				22				
			100	125	150	175	100	125	150	175	
FAD / Power consumption	First figures	75									
	effective volume flow acfm (ISO 1217 / Annex C)		113.90 20.26 22.40				133.7 24.01 26.40				
	Second figures	125		99.60 20.26 22.40			116.1 23.78 26.16				
	motor output at shaft kW (without fan)				92.20 20.73 22.90			109.1 25.24 26.96			
	Third figures	175				83.80 21.16 23.36				94.6 24.16 26.56	
	total package power compressor kW (ISO 1217 / Annex C)										
		190									
		Motor output at shaft at Zero Flow	kW	7.00	6.17	6.36	5.80	8.96	7.48	7.86	7.29
		Total Package Input Power at Zero Flow	kW	8.10	7.20	7.40	6.80	10.20	8.60	9.01	8.40
	Electrical data	Nominal drive motor power	kW (hp)	18.5 (25)				22 (30)			
Nominal voltage		V	200 / 230 / 460 / 575				200 / 230 / 460 / 575				
Nominal current at nominal voltage		Amp	66.3/ 58.4/ 29.2/ 23.1				78.9/ 68.6/ 34.3/ 27.4				
Drive motor enclosure / Insulation class			IP 55 / ISO F				IP 55 / ISO F				
Drive motor nominal speed / frequency		rpm / Hz	1800 / 60				1800 / 60				
Drive motor efficiency		%	93.6				93.6				
Nominal fan motor power		kW (hp)	0.75 (1)				0.75 (1)				
Airend		Airend type		BSA21				BSA21			
	Male rotor speed	rpm	3650	3457	3073	2881	4303	4072	3650	3265	
	Tip speed	m/s	21.6	20.5	18.2	17.1	25.5	24.1	21.6	19.3	
Cooling data	Compr. air temp. at 70°F ambient and max. pressure	°F	90				90				
	Ambient temp. standard (min / max)	°F	37 - 113				37 - 113				
	Cooling air capacity fan	cfm	2930				2930				
	Static back pressure (at 85° / 95° / 105°F)	Pa (inchWC)	120 (0.48) / 100 (0.40) / 80 (0.32)				120 (0.48) / 100 (0.40) / 80 (0.32)				
Dimensions / weight / others	Dimensions (with or without optional dryer) (l x w x h)	inch	50x35x60				50x35x60				
	Dimension mounted on tank 120 gal	inch	77x35x81				77x35x81				
	Weight compressor	lbs	1415				1477				
	Weight compressor + tank 120 gal	lbs	1917				1984				
	Compressed air outlet	NPT	1"				1"				
	Oil capacity	gal	4				4				
	Residual oil content of air / with dryer	ppm	1 - 3 / 0.8 - 2				1 - 3 / 0.8 - 2				
	Noise level at 100% load (EN ISO 2151)	dB(A)	73	73	72	72	74	73	73	72	
	Total heat rejection	btu/h	76365	80893	78965	80989	91505	96743	95327	92898	
	Heat rejection in oil cooler	btu/h	54983	58243	56855	58312	65883	69655	68635	66887	
Dryer version*	Pressure dew point	°F	43				44				
	Pressure drop	psi(g)	3.63				3.63				
	Total package power dryer	kW (hp)	0.96 (1.3)				0.96(1.3)				
	Total input amps dryer (120VAC)	Amp	14.5				14.5				
	Weight	lbs	132				132				
*Reference conditions according to DIN ISO 7183 (t ambient= 77°F, t inlet= 95°F, p= 100 psi) Total package power compressor with dryer = Total package power compressor + total package power dryer Max. operating pressure (compressor incl. dryer version) = Max. operating pressure compressor - pressure drop dryer Total weight compressor incl. dryer = Total weight compressor + weight dryer											