



# NxB 4-6

Rev B - October, 2015

Rotary screw compressor - oil injected - air cooled

CAP720-NxB04-06

## Fixed Speed Belt Drive (4 - 6 kW)

60 Hz US

		04				06					
		psi(g)	100	125	150	175	100	125	150	175	
FAD / Power consumption	<b>First figures</b>	75									
	effective volume flow										
	acfm (ISO 1217 / Annex C)		22.10				29.19				
	<b>Second figures</b>	100	4.45				6.16				
	motor output at shaft		4.97				6.88				
	<b>Third figures</b>	125		19.90				27.10			
	motor output at shaft		4.63				6.08				
	kW (including fan)		5.17				6.79				
	Third figures	total package power compressor	150		17.10				24.20		
				kW (ISO 1217 / Annex C)	5.13			6.26			
total package power compressor		175				14.50				21.58	
			kW (ISO 1217 / Annex C)	4.95			5.53			6.44	7.19
	190										
	Motor output at shaft at Zero Flow	kW	1.46	1.34	1.33	1.16	2.43	2.41	2.40	2.42	
	Total Package Input Power at Zero Flow	kW	1.63	1.50	1.48	1.29	2.72	2.68	2.67	2.70	
Electrical data	Nominal drive motor power	kW (hp)	4 (5)				5.5 (7.5)				
	Nominal voltage (single phase)	V	230.0				230.0				
	Nominal current at nominal voltage (single phase)	Amp	23.6				29.6				
	Nominal voltage	V	200 / 230 / 460 / 575				200 / 230 / 460 / 575				
	Nominal current at nominal voltage	Amp	15.7/13.7/6.8/5.5				20.2/17.5/8.8/7.0				
	Drive motor enclosure / Insulation class		IP 55 / ISO F				IP 55 / ISO F				
	Drive motor nominal speed / frequency	rpm / Hz	1800 / 60				3600 / 60				
	Drive motor efficiency	%	89.5				89.5				
Nominal fan motor power (fan on motor shaft)	kW (hp)	n/a				n/a					
Airend	Airend type		ES14				ES14				
	Male rotor speed (based on nominal motor speed)	rpm	3998	3776	3399	2920	5398	5095	4552	4299	
	Tip speed (max.)	m/s	13.1	12.4	11.1	9.5	17.7	16.7	14.9	14.1	
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	498				645				
	Static back pressure (at 95° / 105° / 115° / F)	Pa (inchWC)	50 (0.2) / 40 (0.16) / 30 (0.12)				50 (0.2) / 40 (0.16) / 30 (0.12)				
Dimensions / weight / others	Dimensions / (incl. dryer) (l x w x h)	inch	30x24x38 / (42x24x38)				30x24x38 / (42x24x38)				
	Dimension mounted on tank 60 gal / 80 gal	inch	52x28x61 / 67x28x61				52x28x61 / 67x28x61				
	Weight compressor	lbs	505				478				
	Weight compressor + tank 60 gal / 80 gal	lbs	708 / 752				681 / 787				
	Compressed air outlet	NPT	1/2"				1/2"				
	Oil capacity	gal	1.1				1.0				
	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)	64	63	62	61	68	67	65	65	
	Total heat rejection	btu/h	17193	18040	17805	17759	23479	24321	23873	24537	
	Heat rejection in oil cooler	btu/h	12379	12989	12820	12787	16905	17511	17188	17666	
Dryer version*	Pressure dew point	°F	39.2				41.0				
	Pressure drop	psi(g)	3.63				3.63				
	Total package power dryer	kW (hp)	0.392 ( 0.53 )				0.392 ( 0.53 )				
	Total input amps dryer (120VAC)	Amp	6.8				6.8				
	Weight	lbs	79.3				79.3				
<p>*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</p>											