



NxB 8-11

Rev B - October 2015

Rotary screw compressor - oil injected - air cooled

CAP720-NxB08-15

Fixed Speed Belt Drive (8 - 11 kW) 60 Hz US

		psi(g)	08				11				
			100	125	150	175	100	125	150	175	
FAD / Power consumption	First figures	75									
	effective volume flow acfm (ISO 1217 / Annex C)	100	44.6 7.95 8.81				63.0 11.92 13.10				
	Second figures	125		41.6 8.25 9.15				58.0 12.52 13.76			
	motor output at shaft kW (including fan)	150			36.90 8.26 9.16				49.6 12.31 13.53		
	Third figures	175				33.40 8.41 9.32				44.6 12.22 13.43	
	total package power compressor kW (ISO 1217 / Annex C)	190									
	Motor output at shaft at Zero Flow	kW	2.78	2.75	2.51	2.15	3.85	3.49	3.49	3.22	
	Total Package Input Power at Zero Flow	kW	3.11	3.07	2.80	2.40	4.30	3.90	3.90	3.60	
	Electrical data	Nominal drive motor power	kW (hp)	7.5 (10)				11 (15)			
		Nominal voltage	V	200 / 230 / 460 / 575				200 / 230 / 460 / 575			
Nominal current at nominal voltage		Amp	27.3 / 23.7 / 11.9 / 9.5				39.2 / 34.2 / 17.1 / 13.7				
Drive motor enclosure / Insulation class			IP 55 / ISO F				IP 55 / ISO F				
Drive motor nominal speed / frequency		rpm / Hz	3600 / 60				3600 / 60				
Drive motor efficiency		%	90.2				91.0				
Nominal fan motor power (fan on motor shaft)		kW (hp)	n/a				n/a				
Airend	Airend type		ES15				ES15				
	Male rotor speed (based on nominal motor speed)	rpm	4068	3864	3342	3027	5743	5360	4788	4280	
	Tip speed (max.)	m/s	16.6	15.7	13.59	12.30	23.4	21.8	19.5	17.4	
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	1992				1992				
	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	32x27x44 / (48x27x44)				32x27x44 / (48x27x44)				
	Dimension mounted on tank 80 gal	inch	67x28x67				67x28x67				
	Weight compressor	lbs	605				754				
	Weight compressor + tank 80 gal	lbs	868				1017				
	Compressed air outlet / (with tank)	NPT	3/4"				3/4"				
	Oil capacity	gal	2				2				
	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)	60	60	60	60	67	65	67	66	
	Total heat rejection	btu/h	32107	34329	31283	31830	45652	47153	46488	45674	
	Heat rejection in oil cooler	btu/h	23117	24717	22523	22918	32869	33950	33471	32885	
Dryer version*	Pressure dew point	°F	41				41				
	Pressure drop	psi(g)	3.63				3.63				
	Total package power dryer	kW (hp)	0.68 (0.91)				0.68 (0.91)				
	Total input amps dryer (120VAC)	Amp	7.4				7.4				
	Weight	lbs	90.3				90.3				

*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



NxB 15

Rev B - October, 2015

Rotary screw compressor - oil injected - air cooled

CAP720-NxB08-15

Fixed Speed Belt Drive (15 kW)

60 Hz US

		psi(g)	15				
			100	125	150	175	
FAD / Power consumption	First figures	75					
	effective volume flow acfm (ISO 1217 / Annex C)	100	82.30 15.32 16.84				
	Second figures	125		77.00 16.32 17.93			
	motor output at shaft kW (including fan)	150			71.80 15.59 17.13		
	Third figures	175				62.00 16.02 17.60	
	total package power compressor kW (ISO 1217 / Annex C)	190					
	Motor output at shaft at Zero Flow	kW	5.15	5.40	4.56	4.08	
	Total Package Input Power at Zero Flow	kW	5.66	5.93	5.01	4.48	
	Electrical data	Nominal drive motor power	kW (hp)	15 (20)			
		Nominal voltage	V	200 / 230 / 460 / 575			
Nominal current at nominal voltage		Amp	53.5/ 46.5/ 23.2/ 18.6				
Drive motor enclosure / Insulation class			IP 55 / ISO F				
Drive motor nominal speed / frequency		rpm / Hz	3600 / 60				
Drive motor efficiency		%	91.0				
Nominal fan motor power (fan on motor shaft)		kW (hp)	n/a				
Airend	Airend type		ES15				
	Male rotor speed (based on nominal motor speed)	rpm	7274	6891	6509	5743	
	Tip speed (max.)	m/s	29.6	28.0	26.5	23.4	
Cooling data	Compr. air temp. at 70°F ambient and max. pressure	°F	90				
	Ambient temp. standard (min / max)	°F	37 - 113				
	Cooling air capacity fan	cfm	1992				
	Static back pressure (at 95° / 105° / 115°F)	Pa (inchWC)	50 (0.2) / 40 (0.16) / 30 (0.12)				
Dimensions / weight / others	Dimensions / (incl. dryer) (l x w x h)	inch	32x27x44 / (48x27x44)				
	Dimension mounted on tank 80 gal	inch	67x28x67				
	Weight compressor	lbs	737				
	Weight compressor + tank 80 gal	lbs	1046				
	Compressed air outlet (with tank)	NPT	3/4"				
	Oil capacity	gal	2				
	Residual oil content of air / with dryer	ppm	1 - 3 / 0.8 - 2				
	Noise level at 100% load (EN ISO 2151)	dB(A)	73	71	71	69	
	Total heat rejection	btu/h	63312	64368	65451	62095	
	Heat rejection in oil cooler	btu/h	45585	46345	47125	44708	
Dryer version*	Pressure dew point	°F	41				
	Pressure drop	psi(g)	3.63				
	Total package power dryer	kW (hp)	0.68 (0.91)				
	Total input amps dryer (120VAC)	Amp	7.4				
	Weight	lbs	90.3				
<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>							



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