



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

		psi(g)	04				06				
			100	125	150	175	100	125	150	175	
FAD / Power consumption	First figures effective volume flow acfm (ISO 1217 / Annex C)	75									
		100	22.10 4.45 4.97				29.19 6.16 6.88				
	Second figures motor output at shaft kW (including fan)	125		19.90 4.63 5.17				27.10 6.08 6.79			
		150			17.10 5.13 5.74				24.20 6.26 7.00		
	Third figures total package power compressor kW (ISO 1217 / Annex C)	175				14.50 4.95 5.53				21.58 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				
*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 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 effective volume flow acfm (ISO 1217 / Annex C)	75									
		100	44.6 7.95 8.81				63.0 11.92 13.10				
	Second figures motor output at shaft kW (including fan)	125		41.6 8.25 9.15				58.0 12.52 13.76			
		150			36.90 8.26 9.16				49.6 12.31 13.53		
	Third figures total package power compressor kW (ISO 1217 / Annex C)	175				33.40 8.41 9.32				44.6 12.22 13.43	
		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>							



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 effective volume flow acfm (ISO 1217 / Annex C)	75									
		100	113.90 20.26 22.40				133.7 24.01 26.40				
	Second figures motor output at shaft kW (without fan)	125		99.60 20.26 22.40				116.1 23.78 26.16			
		150			92.20 20.73 22.90				109.1 25.24 26.96		
	Third figures total package power compressor kW (ISO 1217 / Annex C)	175				83.80 21.16 23.36				94.6 24.16 26.56	
		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											



NxB 30-37

April , 2016

Rotary screw compressor - oil injected - air cooled

CAP720-NxB30-37

Fixed Speed Belt Drive (Frame D 30 - 37 kW)

60 Hz US

		30				37						
		psi(g)	100	125	150	175	100	125	150	175		
FAD / Power consumption	First figures	75										
	effective volume flow											
	acfm (ISO 1217 / Annex C)		196.0				233.60					
	Second figures	motor output at shaft kW (without fan)	100	34.37				41.60				
				37.63				45.83				
					173.0				203.40			
	Third figures	total package power compressor kW (ISO 1217 / Annex C)	125	33.31	36.50			40.02	44.13			
						162.5				193.00		
						34.35	37.60			41.63	45.86	
			150				149.1					
						35.48					179.80	
						38.80					42.19	
		175								46.46		
		190										
	Motor output at shaft at Zero Flow	kW	11.66	10.64	9.62	8.88	15.45	13.40	12.01	10.71		
	Total Package Input Power at Zero Flow	kW	13.40	12.30	11.20	10.40	17.40	15.20	13.70	12.30		
Electrical data	Nominal drive motor power	kW (hp)	30 (40)				37 (50)					
	Nominal voltage	V	200 / 230 / 460 / 575				200 / 230 / 460 / 575					
	Nominal current at nominal voltage	Amp	107/ 93.2/ 46.6/ 37.2				128/ 111/ 55.5/ 44.4					
	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	%	94.1				93.0					
	Nominal fan motor power	kW (hp)	1.1 (1.5)				1.1 (1.5)					
Airend	Airend type		BSA31				BSA31					
	Male rotor speed	rpm	5898	5551	4857	4337	6938	6591	5898	5204		
	Tip speed	m/s	34.9	32.9	28.8	25.7	41.1	39.0	34.9	30.8		
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	3516				3516					
	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	54x37x67				54x37x67					
	Weight compressor	lbs	1812				1895					
	Compressed air outlet	NPT	1 1/2"				1 1/2"					
	Oil capacity	gal	4.9				4.9					
	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)	74	73	72	72	76	75	74	73		
	Total heat rejection	btu/h	128263	134774	129368	124577	159404	166779	161379	153504		
	Heat rejection in oil cooler	btu/h	92350	97037	93145	89696	114771	120081	116193	110523		
Dryer version*	Pressure dew point	°F	43				45					
	Pressure drop	psi(g)	3.63				3.63					
	Total package power dryer	kW (hp)	1.4 (1.9)				1.4 (1.9)					
	Total input amps dryer (230VAC)	Amp	11.0				11.0					
	Weight	lbs	154				154					

*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