



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)									
	Second figures	100	196.0				233.60			
			34.37 37.63				41.60 45.83			
	motor output at shaft kW (without fan)	125	173.0				203.40			
			33.31 36.50				40.02 44.13			
	Third figures	150	162.5						193.00	
34.35 37.60								41.63 45.86		
total package power compressor kW (ISO 1217 / Annex C)	175				149.1				179.80	
	190				35.48 38.80				42.19 46.46	
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