

Category: Marine

Document Number: PI061BC



Date: 6/23/2011

Description: **BlueCool General Specifications**

Refrigerant Volumes:

Gas Charge	Per Circuit	
Blue Cool Classic Units - 230V		R407C (g)
WBCL005101	CPAC 5000 - CPAC5/D - REVERSIBLE	360
WBCL005102	CPAC 5000 - CPAC5/D - COOL ONLY	340
WBCL005010	CPAC 7000 - CPAC7/D - REVERSIBLE	370
WBCL005103	CPAC 7000 - CPAC7/D - COOL ONLY	350
WBCL005011	CPAC 9000 - CPAC9/D - REVERSIBLE	450
WBCL005104	CPAC 9000 - CPAC9/D - COOL ONLY	430
WBCL005012	CPAC 12000 - CPAC12/D - REVERSIBLE	480
WBCL005105	CPAC 12000 - CPAC12/D - COOL ONLY	460
WBCL005013	CPAC 16000 - CPAC16/D - REVERSIBLE	510
WBCL005106	CPAC 16000 - CPAC16/D - COOL ONLY	480
WBCL005132	CPAC 20000 - ROTARY LG - REVERSIBLE	560
WBCL005133	CPAC 20000 - ROTARY LG - COOL ONLY	530
WBCL005130	CPAC 24000 - ROTARY LG - REVERSIBLE	650
WBCL005131	CPAC 24000 - ROTARY LG - COOL ONLY	610
WBCL005118	CPAC 30000 - CPAC30/D - LG - REVERSIBLE	750
WBCL005119	CPAC 30000 - CPAC30/D - LG - COOL ONLY	710
Blue Cool Classic Units - 115V		R22 (g)
WBCL006500	CPAC5/D - REVERSIBLE - 115V	350
WBCL006502	CPAC6.5/D - REVERSIBLE - 115V	360
WBCL006503	CPAC6.5/D - COOL ONLY - 115V	340
WBCL006504	CPAC9/D - REVERSIBLE - 115V	450
WBCL006505	CPAC9/D - COOL ONLY - 115V	430
WBCL006506	CPAC12/D - REVERSIBLE - 115V	480
WBCL006507	CPAC12/D - COOL ONLY - 115V	460
WBCL006508	CPAC16/D - REVERSIBLE - 115V	510
WBCL006509	CPAC16/D - COOL ONLY - 115V	480
Blue Cool Premium Mono		R407C (g)
WBCL005236	CHILLER UNIT - HCSC12/D - LG - REVERSIBLE	440
WBCL005203	CHILLER UNIT - HCSC16/D - LG - REVERSIBLE	510
WBCL005227	CHILLER UNIT - HCSC20/D - LG - REVERSIBLE	550
WBCL005205	CHILLER UNIT - HCSC24/D - LG - REVERSIBLE	650
WBCL005201	CHILLER UNIT - HCSC30/D - LG - REVERSIBLE	800
WBCL005207	CHILLER UNIT - HCSC30/D - SCROLL - REVERSIBLE	850
WBCL005209	CHILLER UNIT - HCSC36/D - SCROLL - REVERSIBLE	950
WBCL005211	CHILLER UNIT - HCSC42/D - SCROLL - REVERSIBLE	1050
WBCL005213	CHILLER UNIT - HCSC48/D - SCROLL - REVERSIBLE	1300
WBCL005238	CHILLER UNIT - HCSC60/D - SCROLL - REVERSIBLE	1600

Blue Cool Twin		R407C (g)
WBCL005232	CHILLER UNIT - HCSC24/D - LG - REVERSIBLE	440
WBCL005231	CHILLER UNIT - HCSC32/D - LG - REVERSIBLE	470
WBCL005233	CHILLER UNIT - HCSC40/D - LG - REVERSIBLE	550
WBCL005234	CHILLER UNIT - HCSC50/D - LG - REVERSIBLE	650
WBCL005216	CHILLER UNIT - HCSC60/D - LG - REVERSIBLE	750
WBCL005217	CHILLER UNIT - HCSC72/D - SCROLL - REVERSIBLE	950
WBCL005223	CHILLER UNIT - HCSC84/D - SCROLL - REVERSIBLE	1050
WBCL005224	CHILLER UNIT - HCSC96/D - SCROLL - REVERSIBLE	1300
Blue Cool Tri		R407C (g)
WBCL005257	CHILLER UNIT - HCSC60/D - LG - REVERSIBLE	550
WBCL005258	CHILLER UNIT - HCSC72/D - LG - REVERSIBLE	650
WBCL005259	CHILLER UNIT - HCSC90/D - LG - REVERSIBLE	750
WBCL005250	CHILLER UNIT - HCSC108/D - SCROLL - REVERSIBLE	950
WBCL005251	CHILLER UNIT - HCSC126/D - SCROLL - REVERSIBLE	1050
WBCL005252	CHILLER UNIT - HCSC144/D - SCROLL - REVERSIBLE	1300
WBCL005253	CHILLER UNIT - HCSC180/D - SCROLL - REVERSIBLE	1600
WBCL005254	CHILLER UNIT - HCSC216/D - SCROLL - REVERSIBLE	1800
WBCL005255	CHILLER UNIT - HCSC252/D - SCROLL - REVERSIBLE	2000
Blue Cool Quatro		R407C (g)
WBCL005490	CHILLER UNIT - HCSC100/D - LG - REVERSIBLE	650
WBCL005491	CHILLER UNIT - HCSC120/D - LG - REVERSIBLE	750
WBCL005503	CHILLER UNIT - HCSC240/D - SCROLL - REVERSIBLE	1600
WBCL005504	CHILLER UNIT - HCSC288/D - SCROLL - REVERSIBLE	1800
WBCL005505	CHILLER UNIT - HCSC336/D - SCROLL - REVERSIBLE	2000
WBCL005506	CHILLER UNIT - HCSC384/D - SCROLL - REVERSIBLE	2200
WBCL005507	CHILLER UNIT - HCSC448/D - SCROLL - REVERSIBLE	3000
WBCL005508	CHILLER UNIT - HCSC504/D - SCROLL - REVERSIBLE	
WBCL005509	CHILLER UNIT - HCSC572/D - SCROLL - REVERSIBLE	

Product Information



Oil Volumes

WBC Premium LG Rotary	Oil charge volume in cc +/- 10cc	Property	TYPICAL DATA					
			230V 1Ph	230V 1Ph	230V 1Ph	230V 1Ph	230V 1Ph	
CPAC5	Suniso 4 GS grade	Density	330	15°C	g/cm ³	SUNISO 3GS	SUNISO 4GS	SUNISO 5GS
CPAC7	NK125P	Color	330	ASTM		L0.5	L1.0	L1.0
CPAC9	NK164P	Viscosity	410	40°C	mm ² /s	29.5	54.9	94.6
CPAC12 / HCSC12Mono / 24Twin	NK185P	Viscosity	450	100°C	mm ² /s	4.31	5.97	7.78
CPAC16 / HCSC16Mono / 32Twin	NJ236P	Flash Point	700	COC	°C	178	188	208
CPAC20 / HCSC20Mono / 40Twin / 60Tri	NJ282P	Pour Point	700	°C		-40	-35	-27.5
CPAC24 / HCSC24Mono / 50Twin / 72Tri / 100Quatro	NP362P	Total Acid No.			mgKOH/g	0.01	0.01	0.01
CPAC30 / HCSC30Mono / 60Twin / 90Tri / 120Quatro	NP407P	Aniline Point			°C	75.4	79.8	80.4
WBC Premium LG Scroll		Water			ppm	20	20	20
30Mono / 60Twin /	HQ 028P	Floc Point			°C	-53	-46	-35
36Mono / 72Twin / 108Tri	HQ 034P		750					
42Mono / 84Twin / 126Tri	HQ 040P		750					
48Mono / 96Twin / 144Tri	HR 049P		1100					
30Mono / 60Twin /	HQ 028Y		1800					
36Mono / 72Twin / 108Tri	HQ 034Y		750					
42Mono / 84Twin / 126Tri	HQ 040Y		1100					
48Mono / 96Twin / 144Tri	HR 049Y		1800					
60Mono / 180Tri / 240Quatro	HR 061Y		1800					
216Tri / 288Quatro	HR 073Y		1800					
252Tri / 336Quatro	HR 081Y		1800					

Motor Winding Resistance Values

WBC Classic and WBC Premium LG Rotary	Motor winding resistance in Ohm				
	Tolerances +/- 7%		3 Ph		
	Main	Sub	U-V	V-W	W-U
CPAC5					
CPAC7					
CPAC9	3.41	4.30			
CPAC12 / HCSC12Mono / 24Twin	4.14	5.48			
CPAC16 / HCSC16Mono / 32Twin	2.2	3.93			
CPAC20 / HCSC20Mono / 40Twin / 60Tri	2.34	5.27			
CPAC24 / HCSC24Mono / 50Twin / 72Tri / 100Quatro	1.47	4.15			
CPAC30 / HCSC30Mono / 60Twin / 90Tri / 120Quatro	1.22	2.44			
WBC Premium LG Scroll					
30Mono / 60Twin /	1.2	1.53			
36Mono / 72Twin / 108Tri	1.23	2.33			
42Mono / 84Twin / 126Tri	0.96	2.26			
48Mono / 96Twin / 144Tri	0.64	1.60			
30Mono / 60Twin /			6.12	5.82	5.98
36Mono / 72Twin / 108Tri			4.92	4.66	4.82
42Mono / 84Twin / 126Tri			4.27	4.04	4.15
48Mono / 96Twin / 144Tri			3.15	3.05	3.19
60Mono / 180Tri / 240Quatro			3.09	3.02	3.14
216Tri / 288Quatro			2.54	2.45	2.42
252Tri / 336Quatro			2.54	2.45	2.42
WBC Premium Copeland Scroll					
384Quatro					
448Quatro					

Power Consumption

Webasto BlueCool Premium	Voltage - Phase	Power consumption [Watt] Run/Start*	Current Draw [Ampère] Run/Start*
WBCP12	230 V / 115 V -1	1.000 / 2.500	4.4 / 10.9 Amps (230V) 8.9 / 21.8 Amps (115V)
WBCP16	230 V / 115 V -1	1.250 / 3.200	5.4 / 13.9 Amps (230V) 10.9 / 27.9 Amps (115V)
WBCP20	230 V -1	1.500 / 3.700	6.5 / 16.1 Amps (230V)
WBCP24	230 V -1	1.725 / 4.200	7.5 / 18.3 Amps (230V)
WBCP30	230 / 400 V -1/3	2.200 / 5.000	9.6 / 21.7 Amps (230V) 5.5 / 12.5 Amps (400V)
WBCP30	230 V -1	2.100 / 4.500	9.1 / 19.6 Amps (230V)
WBCP36	230 / 400 V -1/3	2.650 / 5.600	11.5 / 24.4 Amps (230V) 6.7 / 14 Amps (400V)
WBCP42	230 / 400 V -1/3	3.000 / 7.300	13.1 / 31.7 Amps (230V) 7.5 / 18.3 Amps (400V)
WBCP48	230 / 400 V -1/3	3.450 / 9.200	15 / 40 Amps (230V) 8.7 / 23 Amps (400V)
WBCP60	400 V - 3	4.400 / 9.800	11 / 24.5 Amps (400V)
WBCP24 Tw	230 V -1	2.070 / 3.750	9 / 16.3 Amps (230V)
WBCP32 Tw	230 V -1	2.500 / 4.450	10.9 / 19.4 Amps (230V)
WBCP40 Tw	230 V -1	3.000 / 5.000	13.1 / 21.8 Amps (230V)
WBCP50 Tw	230 V -1	3.500 / 5.800	15.3 / 25.3 Amps (230V)
WBCP60 Tw	230 V -1	4.200 / 6.600	18.3 / 28.7 Amps (230V)
WBCP60 Tw	230 / 400 V -1/3	4.400 / 8.100	19.2 / 35.3 Amps (230V) 11 / 20.3 Amps (400V)
WBCP72 Tw	230 / 400 V -1/3	5.300 / 9.650	23.1 / 42 Amps (230V) 13.3 / 24.2 Amps (400V)
WBCP84 Tw	230 / 400 V -1/3	6.000 / 11.000	26.1 / 47.9 Amps (230V) 15 / 27.5 Amps (400V)
WBCP96 Tw	230 / 400 V -1/3	6.900 / 12.850	30 / 55.9 Amps (230V) 17.3 / 32.2 Amps (400V)
WBCP72 Tri	230 V - 1	5.175 / 7.550	22.5 / 32.9 Amps (230V)
WBCP90 Tri	230 V - 1	6.300 / 8.700	27.4 / 37.9 Amps (230V)
WBCP108 Tri	230 / 400 V -1/3	8.000 / 12.300	34.8 / 53.5 Amps (230V) 20 / 30.8 Amps (400V)
WBCP126 Tri	230 / 400 V -1/3	9.000 / 14.000	39.2 / 60.9 Amps (230V) 22.5 / 35 Amps (400V)
WBCP144 Tri	230 / 400 V -1/3	10.350 / 16.300	45 / 70.9 Amps (230V) 25.9 / 40.8 Amps (400V)
WBCP180 Tri	400 V -3	16.500 / 18.600	41.3 / 46.5 Amps (400V)
WBCP216 Tri	400 V -3	16.500 / 25.500	41.3 / 63.8 Amps (400V)
WBCP252 Tri	400 V -3	18.900 / 29.100	47.3 / 72.8 Amps (400V)
WBCP100 Qtr	230 V -1	6.900 / 9.300	30 / 40.4 Amps (230V)
WBCP120 Qtr	230 V -1	8.280 / 11.040	36 / 48 Amps (230V)
WBCP240 Qtr	400 V -3	17.500 / 22.900	43.8 / 57.3 Amps (400V)
WBCP288 Qtr	400 V -3	22.000 / 31.000	55 / 77.5 Amps (400V)
WBCP336 Qtr	400 V -3	25.000 / 35.250	62.5 / 88.1 Amps (400V)
WBCP384 Qtr	400 V -3	27.200 / 38.400	68 / 96 Amps (400V)
WBCP448 Qtr	400 V -3	30.400 / 42.800	76 / 107 Amps (400V)
WBCP504 Qtr	400 V -3	34.200 / 48.150	85.5 / 120.4 Amps (400V)
WBCP572 Qtr	400 V -3	38.000 / 53.500	95 / 133.8 Amps (400V)