



SEA-BIRD[®]

An ISO 9001:2000 Organization

Refrigeration Technologies



Water-cooled Condensing Units

**WITH SEMI-HERMETIC
RECIPROCATING COMPRESSORS**



**R22 R134a R404A R507A
R410A R407C R508b
Version 50 Hz / 60 Hz**



ENVIRONMENT
FRIENDLY



LESS ELECTRICITY
CONSUMPTION



WORLD CLASS
TECHNOLOGY



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THE SEA BIRD GROUP

The SEABIRD Group is today diversified into different industries, also at the forefront of Asian Compressors production. Since 1983 SEABIRD has enjoyed continuous growth, and has invested heavily in highly advanced computerised production machinery, to ensure that quality and reliability of our products remain the foundation of our success. SEABIRD has production facilities in different parts of India and four service centres abroad,

from where we service customers around the globe.

SEABIRD is now market leader in the segment of high quality Compressors, Condensing Units, Pressure Vessels, Chillers and Cold Rooms which has always been the core business of the company's activities.

SEABIRD is also ventured into Plastic industry, Automobile industry, Automation industry and software industry.

Continuing investments for research and development into new products, together with the design of ultramodern plant, options and design.

This is a success that has been consolidated over the years by the work of a flexible, dynamic and enthusiastic organization, in which the company culture is very much oriented towards quality, customer care and efficiency.



An ISO 14001:2004 Organization

An ISO 9001:2000 Organization



Prestigious National Award Winner

Water cooled condensing units with semi hermetic compressor

An optimum matching unit programme with the **efficient** and **robust** compressor as well as **highly efficient shell and tube condensers**.

The deciding, features of SEA-BIRD Condensing Unit :

- Especially high refrigerant capacity
- Lower energy costs
- Extensive use and performance range
- Universal suitability with different refrigerants
- Robust construction and compact dimensions
- One design for the refrigerants R134a, R404A, R507A and R22, other refrigerants upon request
- Operating pressure up to 28bar

Accessories

Amongst other things : crankcase heater, start unloading, capacity control, additional fans, water cooled cylinder heads, seawater-resistant condensers.

Explanation of the type designation

Designation for:

SB573HB/ 4SB 60.20 Y

Condenser

B: seawater resistant design

SB573HB/ **4SB 60.20** Compressor

SB573HB /4SB60.20Y

Identification for Ester oil charge (HFC refrigerants R134a/R404A/R507A)

R404A /R507A

Cooling capacity in Watt

relating to 25°C (20°) suction gas temperature,with 5 k liquid subcooling; motor speed = 1450 min-1

Conensing unit type	Cond. Temp, °C	Evaporating temperature °C											
		Air- conditioning range (A)			Medium range (M)			Low temperature refrigeration range (L)					
		7.5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
SB073 H / 2 SB 30.05⊙Y 40		4470	4060	3320	2690	2140	1680	1290	965	695	470	295	155
SB073H / 2 SB 34.07 ⊙Y 40		5650	5160	4290	3530	2870	2300	1810	1380	1020	715	455	240
SB 073 H / 2 SB 38.1 ⊙Y 40					4460	3640	2930	2320	1790	1340	960	640	375
SB 073 H / 2 SB 38.2 ⊙Y 40		7090	6490	5400	4460	3640	2940	2320	1800	1350			
SB 073 H / 2 SB 41.2 ⊙Y 40		8270	7570	6320	5220	4270	3450	2740	2130	1610	1170	800	490
SB 073 H / 2 SB 45.2 ⊙Y 40					6340	5190	4200	3340	2600	1970	1440	990	610
SB 123 H / 2 SB 45.3 ⊙Y 40		9960	9130	7620	6310	5170	4180	3330	2600	1970			
SB 123 H / 2 SB 46.2 ⊙Y 40					7720	6330	5120	4080	3190	2420	1780	1230	770
SB 123H / 2 SB 46 .3⊙Y 40		12390	11350	9470	7840	6410	5180	4120	3210	2430			
SB 123 H / 2 SB 50.2⊙Y 40					9120	7480	6050	4820	3770	2860	2100	1450	910
SB 123 H / 2 SB 50.3⊙Y 40		14750	13510	11270	9320	7630	6170	4910	3820	2890			
SB 123 H / 2 SB 55.3⊙Y 40					11700	9560	7720	6130	4760	3590	2610	1780	1090
SB 203 H / 2 SB 55.4⊙Y 40		18460	16900	14100	11660	9540	7700	6120	4750	3590			
SB 203 H / 2 SB 5/45.3⊙Y 40					12920	10580	8560	6810	5320	4040	2950	2030	1270
SB 203 H / 2 SB 6/45.5⊙Y 40		20400	18710	15620	12930	10600	8560	6830	5320	4050			
SB 203 H / 2 SB 6/45.4⊙Y 40					15810	12990	10540	8430	6620	5070	3750	2640	1710

R404A / R507A

Cooling capacity in Watt
relating to 25°C (20°) suction gas temperature, with 5 k liquid subcooling; motor speed = 1450 min⁻¹

Conensing unit type	Cond. Temp, °C	Evaporating temperature °C											
		Air- conditioning range (A)			Medium range (M)			Low temperature refrigeration range (L)					
		7.5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
SB 203 H / 2 SB 6/45.6 Y ①	40	24950	22850	19110	15850	13020	10570	8450	6630	5080			
SB 203 H / 2 SB 60.5 Y ①	40				20374	16736	13600	10904	8598	6637	4972	3574	2415
SB 283 H / 2 SB 60.7 Y ①	40	32161	29449	24582	20374	16736	13600	10904	8598	6637			
SB 203 H / 4 SB 42.6 Y ①	40				24250	19890	16130	12890	10120	7760	5760	4080	2680
SB 373 H / 4 SB 42.10 Y ①	40	38300	35050	29250	24250	19890	16130	12890	10120	7760			
SB 283 H / 4 SB 59.8 Y ①	40				29650	24400	19850	15920	12560	9690	7260	5210	3510
SB 373 H / 4 SB 59.12 Y ①	40	46650	42750	35750	29650	24400	19850	15920	12560	9690			
SB 373 H / 4 SB 55.10 Y ①	40				35550	29150	23600	18860	14800	11340	8420	5980	3950
SB 573 H / 4 SB 55.15 Y ①	40	56200	51400	42900	35550	29150	23600	18860	14800	11340			
SB 373 H / 4 SB 60.12 Y ①	40				41600	34200	27800	22300	17570	13560	10180	7340	4980
SB 573 H / 4 SB 60.20 Y ①	40	65500	60000	50100	41600	34200	27800	22300	17570	13560			
SB 573H/4SB 70.15Y	40				53000	43700	35700	28800	22800	17740	13430	9790	6760
SB 813H/4SB 70.25Y	40	82500	75700	63300	52500	43200	35050	28050	22050	16890	12520	8820*	
SB 573H/4SB 75.20Y	40				60800	50200	41100	33150	26300	20400	15420	11170	7590
SB 813H/4SB 75.30Y	40	95000	87200	73000	60700	49950	40650	32600	25700	19760	14710	10450*	
SB 813H/6SB 70.25Y	40				79500	65500	53300	42900	33900	26250	19740	14260	9690
SB 1053H/6SB 70.35Y	40	124000	113700	95100	78900	64800	52600	42050	33000	25300	18750	13250*	
SB 813H/6SB 75.30Y	40				89400	73700	60100	48400	38300	29650	22250	16050	10830
SB 1353H/6SB 75.40Y	40	142300	130500	109300	90800	74800	60900	48850	38500	29700	22200	15850*	
SB 1053H/6SB 82.40Y	40				107400	88400	71900	57700	45450	35000	26100	18640	12390
SB 1353H/6SB 82.50Y	40	168400	154600	129600	107800	88900	72500	58400	46300	35950	27150	19760*	

Additional cooling or limited suction gas temperature (see application limits)
Refrigerating capacity relating to 20°C suction gas temperature. With 5 K liquid subcooling

R22

Cooling capacity in Watt
relating to 25°C (20°) suction gas temperature, with 5 k liquid subcooling; motor speed = 1450 min-1

Condensing unit type	Cond. Temp, °C	Evaporating temperature °C												
		Air- conditioning range (A)					Medium range (M)			Low temperature refrigeration range (L)				
		12.5	10	7.5	5	0	-5	-10	-15	-20	-25	-30	-35	-40
SB 073H / 2 SB 30.05	40	5050	4600	4180	3790	3080	2460	1920	1460	1310	990	725	505	330
SB 073H / 2 SB 34 .07	40	6190	5660	5160	4700	3870	3140	2510	1970	1710	1300	950	670	440
SB073 H / 2SB 38.1	40						4050	3270	2600	2250	1720	1280	910	605
SB 073 H / 2 SB 38.2	40	7830	7170	6560	5990	4960	4060	3280	2600	2020	1530	1110		
SB 073 H / 2 SB 41.2	40	9140	8380	7670	7010	5810	4770	3870	3090	2690	2080	1570	1140	790
SB 0 73 H / 2 SB 45.2	40						5790	4710	3780	3290	2560	1950	1440	1020
SB 123 H / 2 SB 45.3	40	11040	10130	9280	8480	7050	5800	4720	3780	2970	2280	1700		
SB 123 / 2 SB 46.2	40						6910	5580	4430	3950	3070	2330	1700	1180
SB 123H / 2 SB 46.3	40	13340	12220	11180	10210	8450	6910	5580	4440	3450	2600	1880		
SB123 H / 2 SB 50.2	40						8270	6680	5300	4530	3500	2640	1940	1380
SB 123 H / 2 SB 50.3	40	16010	14670	13410	12240	10130	8290	6690	5310	4120	3110	2240		
SB 123H / 2 SB 55.3	40						10260	8310	6620	5600	4320	3250	2370	1660
SB 203H / 2 SB 55.4	40	19700	18060	16530	15100	12520	10270	8320	6630	5180	3940	2890		
SB 203 H / 2 SB 5 / 43.3	40						11640	9370	7410	6240	4820	3640	2660	1850
SB 203 H / 2 SB 5/ 45.5	40	22650	20750	18960	17290	14280	11660	9390	7420	5730	4290	3060		
SB 203 H / 2 SB 5/45.4	40						14370	11600	9210	7830	6080	4610	3390	2380
SB 203 H / 2 SB6 / 45.6	40	27800	25450	23300	21250	17580	14390	11620	9220	7160	5400	3910		
SB 203 H/ 2 SB 60.5	40						18898	15395	12389	10315	8069	6196	4651	3393
SB 284 H / 2 SB 60.7	40	36050	33053	30258	27651	22961	18898	15395	12389	10315	8069	6169	4651	3393
SB 203 H / 4 SB 42.6	40						21800	17570	13940	10850	8330	6180	4380	2890
SB 373 H / 4 SB 42.10	40	42400	38800	3545	32350	26700	21800	17570	13940	10850	8230	6030		
SB 283 H / 4 SB 59.8	40						26500	21450	17070	13330	10240	7590	5340	3450
SB 373 H / 4 SB 59.12	40	51000	46700	42750	39050	32300	26500	21450	17070	13330	10140	7440		
SB 373 H / 4 SB 55.10	40						31100	25200	20150	15850	12180	9040	6400	4190
SB 573 H / 4 SB 55.15	40	59800	54800	50100	45750	37900	31100	25200	20150	15850	12190	9120		
SB 373 H / 4 SB 60.12	40						37800	30800	24800	19660	15100	11260	8000	5250
SB 573 H / 4 SB 60.20	40	72100	66100	60500	55300	45950	37800	30800	24800	19660	15330	11690		
SB 573H/4SB 70.15	40				48600		39500	31700	24950	19180	14340	10160	6670	
SB 813H/4SB 70.25	40	93200	85500	78300	71600	59500	48950	39800	31900	25150	19370	14460*		
SB 573H/4SB 75.20	40				557200		45350	36400	28750	22300	16660	11840	7800	
SB 813H/4SB 75.30	40	107000	98200	89900	82100	68200	56100	45650	36650	29000	22450	16930*		
SB 813H/6SB 70.25	40				73000		59300	47550	37450	28800	21550	15260	10020	
SB 1053H/6SB 70.35	40	139900	128400	117600	107500	89300	73500	59800	47950	37750	29100	21700		
SB 813H/6SB 75.30	40				83600		68000	54600	43150	33400	25000	17770	11700	
SB 1353H/6SB 75.40	40	160600	147300	134800	123200	102300	84200	68500	55000	43500	33700	25400		
SB 1053H/6SB 82.40	40				98900		80600	64900	51500	40100	30200	21700	14480	
SB 1353H/6SB 82.50	40	188800	173200	158700	145100	120700	99500	81200	65400	52000	40500	30800		

R134a

Cooling capacity in Watt
relating to 25°C (20°) suction gas temperature, with 5 k liquid subcooling; motor speed = 1450 min⁻¹

Condensing Cond. unit type Temp, °C	Evaporating temperature °C											
	Air- conditioning range (A)					Medium range (M)			Low temperature refrigeration range (L)			
	12.5	10'	7.5	5	0	-5	-10	-15	-20	-25	-30	
SB073H/2SB 30.05Y	40	3210	2910	2620	2360	1890	1490	1150	850	605	400	225
SB073H/2SB 34.7Y	40	4100	3710	3350	3010	2420	1900	1460	1090	775	510	290
SB073H/2SB 38.1Y	40	5360	4870	4420	4000	3250	2610	2060	1590	1200	870	590
SB073H/2SB 38.2Y	40											
SB073H/2SB 41.2Y	40	6220	5660	5140	4660	3800	3060	2430	1890	1440	1050	730
SB073H/2SB 45.2Y	40	7900	7180	6520	5900	4800	3860	3060	2370	1790	1310	910
SB123H/2SB 45.3Y	40											
SB123H/2SB 46.2Y	40	9080	8260	7500	6800	5540	4470	3550	2770	2110	1550	1090
SB123H/2SB 46.3Y	40											
SB123H/2SB 50.2Y	40	10820	9840	8930	8100	6600	5310	4210	3280	2500	1840	1300
SB123H/2SB 50.3Y	40											
SB123H/2SB 55.3Y	40	13680	12450	11310	10260	8370	6750	5370	4200	3210	2380	1690
SB203H/2SB 55.4Y	40											
SB203H/2SB 5/43.3Y	40	14740	13400	12160	11010	8950	7180	5670	4390	3310	2400	1640
SB203H/2SB 5/45.3Y	40											
SB203H/2SB 5/45.4Y	40	19080	17350	15730	14240	11580	9310	7380	5750	4380	3240	2310
SB203H/2SB 5/45.6Y	40											
SB203H/2SB 60.5Y	40	22750	20700	18800	17040	13890	11180	8880	6920	5260	3870	2720
SB283H/2SB 60.7Y	40											
SB203H/4SB 42.6Y	40	27250	24800	22500	20400	16650	13430	10680	8350	6380	4730	3360
SB373H/4SB 42.10Y	40											
SB283H/4SB 59.8Y	40	35550	32350	29400	26600	21700	17450	13830	10760	8170	5990	4180
SB373H/4SB 59.12Y	40											
SB373H/4SB 55.10Y	40	41500	37750	34250	31050	25250	20300	16080	12470	9410	6840	4690
SB573H/4SB 55.15Y	40											
SB373H/4SB 60.12Y	40	47500	43200	39250	35550	28950	23300	18500	14390	10920	8000	5570
SB573H/4SB 60.20Y	40											
SB 573H/4SB 70.15Y	40	64100	58200	52700	47650	38600	30900	24400	18890	14290	10940	7390
SB 813H/4SB 70.25Y	40											
SB 573H/4SB 75.20Y	40	72900	66200	60000	54200	44000	35250	27850	21600	16390	12070	8540
SB 813H/4SB 75.30Y	40											
SB 813H/6SB 70.25Y	40	96200	87400	79200	71500	58000	46400	36600	28350	21450	15750	11090
SB 1053H/6SB 70.35Y	40											
SB 813H/6SB 75.30Y	40	109300	99300	90000	81400	66000	52900	41800	32400	24600	18110	12820
SB 1353H/6SB 75.40Y	40											
SB 1053H/6SB 82.40Y	40	128500	116800	105900	95800	77900	62500	49500	38550	29350	21750	15540

Technical Data

Condensing unit type	Compressor		Charge capacity Dm3 Ltr	Maximum refrigerant charge R134a R404A R22			Suction mm Line inch Ø IL	Refrigerant outlet mm inch Ø OL	Connection thread/Flange				Weight	
	HP	KW		Kg	Kg	Kg			Coolant inlet inch		Coolant outlet inch		Kg	Kg
			4pass				2pass	4pass	2pass					
SB 073 H/2 SB 30.05 Y	0.5	0.37	3.4	3.8	3.3	3.7	12 1/2"	10 3/8"	1/2"	2x 1/2"	1/2"	3/4"	56	(57)
SB 073H / 2 SB 34 .07Y	0.75	0.55	3.4	3.8	3.3	3.7	12 1/2"	10 3/8"	1/2"	2x 1/2"	1/2"	3/4"	56	(57)
SB 073 H / 2 SB 38.1 Y	1.0	1.1	3.4	3.8	3.3	3.7	16 5/8"	10 3/8"	1/2"	2x 1/2"	1/2"	3/4"	57	(58)
SB 073 H / 2 SB 38.2 Y	1.5	1.1	3.4	3.8	3.3	3.7	16 5/8"	10 3/8"	1/2"	2x 1/2"	1/2"	3/4"	58	(59)
SB 073 H / 2 SB 41.2Y	1.5	1.1	3.4	3.8	3.3	3.7	16 5/8"	10 3/8"	1/2"	2x 1/2"	1/2"	3/4"	58	(59)
SB 073 H / 2 SB 45.2Y	1.5	1.1	3.4	3.8	3.3	3.7	16 5/8"	10 3/8"	1/2"	2x 1/2"	1/2"	3/4"	58	(59)
SB 123 H / 2 SB 45.3Y	1.8	1.3	5.1	5.6	4.9	5.6	16 5/8"	12 1/2"	1/2"	2x 1/2"	1/2"	3/4"	63	(64)
SB 123 H / 2 SB 46.2Y	2.0	1.5	5.1	5.6	4.9	5.6	22 7/8"	12 1/2"	1/2"	2x 1/2"	1/2"	3/4"	84	(85)
SB 123 H / 2 SB 46.3 Y	3.0	2.2	5.1	5.6	4.9	5.6	22 7/8"	12 1/2"	1/2"	2x 1/2"	1/2"	3/4"	87	(88)
SB 123 H / 2 SB 50.2Y	2.0	1.5	5.1	5.6	4.9	5.6	22 7/8"	12 1/2"	1/2"	2x 1/2"	1/2"	3/4"	84	(85)
SB 123 H / 2 SB 50.3Y	3.0	2.2	5.1	5.6	4.9	5.6	22 7/8"	12 1/2"	1/2"	2x 1/2"	1/2"	3/4"	87	(88)
SB 123 H / 2 SB 55.3Y	3.0	2.2	5.1	5.6	4.9	5.6	22 7/8"	12 1/2"	1/2"	2x 1/2"	1/2"	3/4"	86	(87)
SB 203 H / 2 SB 55.4Y	3.5	2.6	11.8	13.0	11.3	12.9	22 7/8"	16 5/8"	3/4"	2x 3/4"	3/4"	1"	97	(99)
SB 203 H / 2 SB 5/45.3Y	3.5	2.6	11.8	13.0	11.3	12.9	22 7/8"	16 5/8"	3/4"	2x 3/4"	3/4"	1"	109	(111)
SB 203 H / 2 SB 5/45.5Y	5.5	4.0	11.8	13.0	11.3	12.9	22 7/8"	16 5/8"	3/4"	2x 3/4"	3/4"	1"	113	(115)
SB 203 H / 2 SB 5/45.4Y	4.0	3.0	11.8	13.0	11.3	12.9	28 1 1/8"	16 5/8"	3/4"	2x 3/4"	3/4"	1"	111	(113)
SB 203 H / 2 SB 6/45.6Y	5.5	4.0	11.8	13.0	11.3	12.9	28 1 1/8"	16 5/8"	3/4"	2x 3/4"	3/4"	1"	113	(115)
SB 203 H / 2 SB 60.5Y	5.5	4.0	11.8	13.0	11.3	12.9	28 1 1/8"	16 5/8"	3/4"	2x 3/4"	3/4"	1"	113	(115)
SB 283 H / 2 SB 60.7Y	7.5	5.5	11.3	12.5	10.9	12.3	28 1 1/8"	22 7/8"	3/4"	2x 3/4"	3/4"	1"	117	(119)
SB 203 H / 4 SB 42.6Y	5.5	4.0	11.8	13.0	11.3	12.9	28 1 1/8"	16 5/8"	3/4"	2x 3/4"	3/4"	1"	162	(164)
SB 373 H / 4 SB 42.10Y	10.0	7.5	14.5	16.0	13.9	15.8	28 1 1/8"	22 7/8"	3/4"	2x 3/4"	3/4"	1"	179	(181)
SB 283 H / 4 SB 59.8Y	7.5	5.5	11.3	12.5	10.9	12.3	35 1 3/8"	22 7/8"	3/4"	2x 3/4"	3/4"	1"	166	(168)
SB 373 H / 4 SB 59.12Y	12.5	9.2	14.5	16.0	13.9	15.8	35 1 3/8"	22 7/8"	3/4"	2x 3/4"	3/4"	1"	183	(185)
SB 373 H / 4 SB 55.10Y	10.0	7.5	14.5	16.0	13.9	15.8	35 1 3/8"	22 7/8"	3/4"	2x 3/4"	3/4"	1"	182	(184)
SB 573 H / 4 SB 55.15Y	15.0	11.0	29.4	32.4	28.3	32.0	35 1 3/8"	28 1 1/8"	1 1/4"	2"	1 1/4"	2"	215	(217)
SB 373 H / 4 SB 60.12Y	12.5	9.2	14.5	16.0	13.9	15.8	42 1 5/8"	22 7/8"	3/4"	2x 3/4"	3/4"	1"	184	(186)
SB 573 H / 4 SB 60.20Y	20.0	15.0	29.4	32.4	28.3	32.0	42 1 5/8"	28 1 1/8"	1 1/4"	2"	1 1/4"	2"	218	(220)
SB 573H / 4 SB 70.15Y	73.7		29.4	32.4	28.3	32	42 1 5/8"	28 1 1/8"	1 1/4"	2"	1 1/4"	2"	250	250
SB 813H / 4 SB 70.25Y	73.7		27.7	30.6	26.6	30.2	54 2 1/8"	28 1 1/8"	1 1/4"	2"	1 1/4"	2"	275	278
SB 573H / 4 SB 75.20Y	86.4		29.4	32.4	28.3	32	54 2 1/8"	28 1 1/8"	1 1/4"	2"	1 1/4"	2"	260	263
SB 813H / 4 SB 75.30Y	86.4		27.7	30.6	26.6	30.2	54 2 1/8"	28 1 1/8"	1 1/4"	2"	1 1/4"	2"	278	281
SB 813H / 6SB 70.25Y	110.5		27.7	30.6	26.6	30.2	54 2 1/8"	28 1 1/8"	1 1/4"	2"	1 1/4"	2"	299	302
SB 1053H / 6SB 70.35Y	110.5		40	44.1	38.4	43.6	54 2 1/8"	28 1 1/8"	1 1/4"	2"	1 1/4"	2"	328	331
SB 813H / 6SB 75.30Y	126.8		27.7	30.6	26.6	30.2	54 2 1/8"	28 1 1/8"	1 1/4"	2"	1 1/4"	2"	301	303
SB 1353H / 6SB 75.40Y	126.8		37	40.8	35.6	40.3	54 2 1/8"	35 1 3/8"	1 1/4"	2"	1 1/4"	2"	350	353
SB 1053H / 6SB 82.40Y	151.6		40	44.1	38.4	43.6	54 2 1/8"	35 1 3/8"	1 1/4"	2"	1 1/4"	2"	332	335
SB 1353H / 6SB 82.50Y	151.6		37	40.8	35.6	40.3	54 2 1/8"	35 1 3/8"	1 1/4"	2"	1 1/4"	2"	352	355



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