

Aircooled liquid chillers SBS series, scroll compressors R410A, plate / shell and tube evaporator, condenser with copper tubes and aluminium finned core and axial fans

Cooling Application	Model	095	120	145	160	190	240	290	330	380	430	470	
NOMINAL COOLING CAPACITY (1)	kW	98	123	145	161	189	236	289	320	387	433	465	
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)	kW	22.2	30.4	40.6	48.3	44.0	60.6	81.2	96.2	99.6	121.8	136.4	
EER		3.80	3.60	3.27	3.10	3.68	3.47	3.26	3.09	3.50	3.26	3.15	
ESEER		4.85	4.60	4.34	4.15	4.88	4.62	4.35	4.17	4.55	4.35	4.23	
COMPRESSORS	nr.	2	2	2	2	4	4	4	4	4	6	6	
REFRIGERATING CIRCUITS	nr.	1	1	1	1	2	2	2	2	2	2	2	
PARTITION STEP	nr.	2	2	2	2	4	4	4	4	4	4	4	
REFRIGERANT		R410A											
HYDRAULIC SECTION													
NOMINAL WATER FLOW	m3/h	16.9	21.1	24.9	27.7	32.5	40.6	49.7	55.0	66.6	74.5	80.0	
WATER FLOW RANGE	m3/h	13÷23	16÷23	16÷42	20÷42	23÷42	29÷53	36÷66	38÷70	47÷87	60÷110	62÷120	
TYPE OF EVAPORATOR		Brased plate evaporator						Shell and tube evaporator					
EVAPORATOR PRESSURE DROP	kPa	50	54	55	54	47	40	41	47	57	56	60	
AVAILABLE PRESSURE (3)	kPa	227	216	210	207	268	265	249	232	218	211	200	
MAXIMUM PUMP ABSORBED POWER (3)	P3	kW	3.46	4.56	4.56	4.56	8.30	8.30	8.30	8.30	10.20	10.20	10.20
MAXIMUM PUMP ABSORBED CURRENT (3)		A	6.33	7.75	7.75	7.75	14.10	14.10	14.10	14.10	17.40	17.40	17.40
AVAILABLE PRESSURE (4)	kPa	407	443	439	436	485	490	480	465	474	466	455	
MAXIMUM PUMP ABSORBED POWER (4)	P5	kW	6.12	10.20	10.20	10.20	16.22	16.22	16.22	16.22	24.85	24.85	24.85
MAXIMUM PUMP ABSORBED CURRENT (4)		A	10.40	17.40	17.40	17.40	26.6	26.60	26.60	26.60	42.40	42.40	42.40
HYDRAULIC CONNECTIONS (VICTAULIC, IN STANDARD CONFIGURATION)	DN	DN50	DN65	DN65	DN65	DN125	DN125	DN125	DN125	DN150	DN150	DN150	
TANK VOLUME (5) (6)	dm3	150	150	150	150	300	300	300	300	380	380	380	
EXPANSION VESSEL VOLUME (7)	nr. x liters	1 x 19											
FAN SECTION (AXIAL)													
RV "fan speed cut-phase regulator" included													
TOTAL AIR FLOW	m3/h	41200	41200	41200	41200	82400	82400	82400	82400	123600	123600	123600	
FANS	nr.	2	2	2	2	4	4	4	4	6	6	6	
TOTAL FANS ABSORBED POWER	kW	3.68	3.68	3.68	3.68	7.36	7.36	7.36	7.36	11.04	11.04	11.04	
FANS ABSORBED CURRENT	A	7.66	7.66	7.66	7.66	15.32	15.32	15.32	15.32	22.98	22.98	22.98	
TOTAL ELECTRIC DATA													
IP54 protection rating, chillers suitable for outdoor installation													
NOMINAL ABSORBED POWER (8)	kW	25.9	34.1	44.3	52.0	51.4	68.0	88.6	103.6	110.6	132.8	147.4	
MAXIMUM ABSORBED CURRENT(F.L.A.) (8)	A	67.7	80.5	96.9	111.6	135.3	161.1	193.8	223.1	260.1	290.6	320.0	
MAXIMUM PEAK CURRENT (L.R.A.) (8)	A	211.7	269.1	324.3	362.3	279.3	349.6	421.2	473.8	510.9	518.0	570.7	
MAXIMUM PEAK CURRENT WITH SOFT START OPTION (L.R.A.) (8)	A	176.9	224.1	269.9	300.3	244.5	304.6	366.8	411.8	448.9	463.6	508.7	
ELECTRIC FEED	V/Ph/Hz	400/3/50											
NOISE DATA													
SOUND PRESSURE FOR STANDARD CONFIGURATION (2) (8)	dB(A)	57.5	59.5	61.5	61.5	60.5	62.6	64.5	64.5	65.1	66.2	66.2	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (2) (8)	dB(A)	56.5	57.5	58.5	58.5	59.5	60.5	61.6	61.6	62.6	63.3	63.3	
DIMENSIONS AND WEIGHT													
LENGTH	mm	1610	1610	1610	1610	2910	2910	2910	2910	4210	4210	4210	
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	
WEIGHT EMPTY (8)	kg	1030	1200	1250	1280	1900	2250	2350	2400	2850	3150	3210	
WEIGHT OPERATING (8)	kg	1050	1225	1280	1310	1950	2320	2450	2500	2950	3270	3350	

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updated on 26/09/2016

Data referred to:

- (1) Inlet/Outlet water temperature = +12/+7 °C - Condenser air temperature = +35°C; fouling factor = 0.000043 m²K/W
- (2) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (3) Data referred to WP option (chiller with inbuilt pump P3)
- (4) Data referred to PH option (chiller with inbuilt pump P5)

- (5) Data referred to CST / SST option (chiller with inbuilt tank)
- (6) Minimum water content for the hydraulic circuit to be verified
- (7) Data referred to XV option (expansion vessel kit)
- (8) Data referred to standard chiller configuration NT.NP (chiller without pump and without tank)

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Cooling Application	Model	530	570	610	660	720	840	930	1030	1230 *	1360 *
NOMINAL COOLING CAPACITY (1)	kW	527	563	603	646	718	827	918	1043	1235	1349
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)	kW	139.7	153.6	171.8	190.4	195.6	229.4	275.8	309.0	344.1	410.7
EER		3.42	3.34	3.23	3.15	3.35	3.29	3.08	3.12	3.27	3.04
ESEER		4.49	4.38	4.28	4.16	4.36	4.40	4.21	4.26	4.40	4.24
COMPRESSORS	nr.	6	6	6	6	6	6	6	6	9	9
REFRIGERATING CIRCUITS	nr.	2	2	2	2	2	2	2	2	3	3
PARTITION STEP	nr.	4	4	4	4	4	4	4	4	6	6
REFRIGERANT		R410A									
HYDRAULIC SECTION											
NOMINAL WATER FLOW	m3/h	90.7	96.8	103.7	111.0	123.4	142.2	157.9	179.4	212.5	232.1
WATER FLOW RANGE	m3/h	79÷145	79÷145	81÷150	81÷150	86÷161	102÷190	112÷210	142÷251	142÷251	207÷330
TYPE OF EVAPORATOR		Shell and tube evaporator									
EVAPORATOR PRESSURE DROP	kPa	59	52	56	59	68	69	73	76	82	55
AVAILABLE PRESSURE (3)	kPa	247	249	241	234	214	244	235	222	195	204
MAXIMUM PUMP ABSORBED POWER (3)	P3 kW	16.22	16.22	16.22	16.22	16.22	23.51	23.51	31.88	31.88	31.88
MAXIMUM PUMP ABSORBED CURRENT (3)	A	26.60	26.60	26.60	26.60	26.60	39.00	39.00	53.50	53.50	53.50
AVAILABLE PRESSURE (4)	kPa	441	451	445	439	448	441	430	485	455	463
MAXIMUM PUMP ABSORBED POWER (4)	P5 kW	24.85	31.88	31.88	31.88	39.09	39.09	39.09	47.31	47.31	57.65
MAXIMUM PUMP ABSORBED CURRENT (4)	A	42.40	53.50	53.50	53.50	65.60	65.60	65.60	77.60	77.60	93.50
HYDRAULIC CONNECTIONS (VICTAULIC, IN STANDARD CONFIGURATION)	DN	DN150	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200	DN200
TANK VOLUME (5) (6)	dm3	500	500	500	500	500	600	600	600	700	700
EXPANSION VESSEL VOLUME (7)	nr. x liters	1 x 19					2 x 19				
FAN SECTION (AXIAL)											
RV "fan speed cut-phase regulator" included											
TOTAL AIR FLOW	m3/h	164800	164800	164800	164800	206000	247200	247200	288400	370800	370800
FANS	nr.	8	8	8	8	10	12	12	14	18	18
TOTAL FANS ABSORBED POWER	kW	14.72	14.72	14.72	14.72	18.40	22.08	22.08	25.76	33.12	33.12
FANS ABSORBED CURRENT	A	30.64	30.64	30.64	30.64	38.30	45.96	45.96	53.62	68.94	68.94
TOTAL ELECTRIC DATA											
IP54 protection rating, chillers suitable for outdoor installation											
NOMINAL ABSORBED POWER (8)	kW	154.4	168.3	186.5	205.1	214.0	251.5	297.9	334.8	377.2	443.8
MAXIMUM ABSORBED CURRENT (F.L.A.) (8)	A	357.0	386.4	415.4	444.4	481.0	570.5	652.4	728.4	855.8	978.6
MAXIMUM PEAK CURRENT (L.R.A.) (8)	A	607.7	637.1	749.6	778.6	815.3	1121.8	1203.7	1182.9	1407.1	1529.9
MAXIMUM PEAK CURRENT WITH SOFT START OPTION (L.R.A.) (8)	A	545.7	575.1	668.0	697.0	733.7	988.6	1070.5	1069.5	1273.9	1396.7
ELECTRIC FEED	V/Ph/Hz	400/3/50									
NOISE DATA											
SOUND PRESSURE FOR STANDARD CONFIGURATION (2) (8)	dB(A)	66.6	66.6	67.9	68.8	69.8	70.0	70.0	70.1	71.7	71.7
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (2) (8)	dB(A)	64.1	64.1	64.8	65.4	66.4	66.8	66.8	67.1	68.6	68.6
DIMENSIONS AND WEIGHT											
LENGTH	mm	5830	5830	5830	5830	7130	8430	8430	9730	12330	12330
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
WEIGHT EMPTY (8)	kg	3950	4050	4100	4170	4900	5900	6050	6700	8700	8800
WEIGHT OPERATING (8)	kg	4070	4180	4250	4330	5070	6220	6450	7050	9200	9300

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- (7) Data referred to XV option (expansion vessel kit)
- (8) Data referred to standard chiller configuration NT.NP (chiller without pump and without tank)
- * For shipment in a container of these models the delivery time can be longer than the smaller models of SBS