

Freecooling liquid chillers SBSF 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
NOMINAL COOLING CAPACITY (1)	kW	94	116	155	172	181	223	295	328	388	433
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)	kW	23,8	33,1	36,9	43,1	47,0	65,4	78,8	93,0	100,0	121,8
EER		3,42	3,15	3,50	3,41	3,33	3,07	3,29	3,15	3,38	3,17
SEPR (HT) (11)		6,61	6,33	6,80	6,67	6,59	6,31	6,52	6,34	6,57	6,46
AIR TEMPERATURE 100% FREE COOLING (Inlet/Outlet water temperature = +12/+7 °C)	°C	1,3	-0,4	2,6	1,9	1,6	-0,1	1,0	0,1	1,1	0,2
COMPRESSORS	nr.	2	2	2	2	4	4	4	4	4	6
REFRIGERATING CIRCUITS	nr.	1	1	2	2	2	2	2	2	2	2
PARTITION STEP	nr.	2	2	2	2	4	4	4	4	4	4
REFRIGERANT	R410A										
HYDRAULIC SECTION											
NOMINAL WATER FLOW	m3/h	16,2	19,9	26,6	29,6	31,1	38,4	50,8	56,4	66,7	74,4
WATER FLOW RANGE	m3/h	13÷23	16÷23	21÷36	25÷45	25÷45	30÷55	36÷66	40÷73	47÷87	58÷107
TYPE OF EVAPORATOR		Plate evaporator				Shell and tube evaporator					
EVAPORATOR CIRCUIT PRESSURE DROP (3)	kPa	59	63	58	56	53	48	60	69	72	72
FREE COOLING CIRCUIT PRESSURE DROP (4)	kPa	122	150	107	113	115	135	130	152	136	148
AVAILABLE PRESSURE (5)	kPa	336	292	227	259	255	229	217	245	257	239
MAXIMUM PUMP ABSORBED POWER (5)	P3	kW	6,12	6,12	6,12	10,25	10,25	10,25	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (5)		A	10,40	10,40	10,40	17,40	17,40	17,40	26,60	26,60	26,60
AVAILABLE PRESSURE (6)	kPa	473	430	464	450	501	482	478	450	500	480
MAXIMUM PUMP ABSORBED POWER (6)	P5	kW	8.3*	12.04*	12,04	12,04	19,94	19,94	19,94	19,94	31,88
MAXIMUM PUMP ABSORBED CURRENT (6)		A	14,10	20,20	20,20	20,20	32,70	32,70	32,70	32,70	53,50
HYDRAULIC CONNECTIONS (VICTAULIC, IN STANDARD CONFIGURATION)	DN	DN50	DN65	DN65	DN65	DN125	DN125	DN125	DN125	DN150	DN150
TANK VOLUME (7) (8)	dm3	150	150	300	300	300	300	380	380	500	500
EXPANSION VESSEL VOLUME (9)	nr. x liters	1 x 19									
FAN SECTION (AXIAL)											
RV "fan speed cut-phase regulator" included											
TOTAL AIR FLOW	m3/h	34000	34000	68000	68000	68000	68000	102000	102000	136000	136000
FANS	nr.	2	2	4	4	4	4	6	6	8	8
TOTAL FANS ABSORBED POWER	kW	3,68	3,68	7,36	7,36	7,36	7,36	11,04	11,04	14,72	14,72
FANS ABSORBED CURRENT	A	7,66	7,66	15,32	15,32	15,32	15,32	22,98	22,98	30,64	30,64
TOTAL ELECTRIC DATA											
IP54 protection rating, chillers suitable for outdoor installation											
NOMINAL ABSORBED POWER (10)	kW	27,5	36,8	44,3	50,5	54,4	72,8	89,8	104,0	114,7	136,5
MAXIMUM ABSORBED CURRENT(F.L.A.) (10)	A	67,7	80,5	104,5	119,2	135,3	161,1	201,4	230,8	267,8	298,3
MAXIMUM PEAK CURRENT (L.R.A.) (10)	A	211,7	269,1	331,9	369,9	279,3	349,6	428,8	481,5	518,5	525,7
MAXIMUM PEAK CURRENT WITH SOFT START OPTION (L.R.A.) (10)	A	176,9	224,1	277,5	307,9	244,5	304,6	374,4	419,5	456,5	471,3
ELECTRIC FEED	V/Ph/Hz	400/3/50									
NOISE DATA											
SOUND PRESSURE FOR STANDARD CONFIGURATION (2) (10)	dB(A)	59,8	61,1	64,1	64,1	62,8	64,1	66,4	66,4	67,2	67,9
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (2) (10)	dB(A)	59,3	59,8	62,8	62,8	62,3	62,8	64,8	64,8	65,8	66,2
DIMENSIONS AND WEIGHT											
LENGTH	mm	1610	1610	3230	3230	3230	3230	4530	4530	5830	5830
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 (10)	kg	1120	1280	1950	1990	1990	2300	2900	2950	3730	4020
WEIGHT OPERATING (10)	kg	1170	1340	2070	2120	2120	2440	3080	3140	4000	4300

The manufacturer reserves the right to modify specifications without notice

updated on 10/01/2018

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) Considered: free-cooling valve + evaporator + piping pressure drop (no free-cooling)
- (4) Considered: free-cooling valve + free-cooling coils + one-way valve + evaporator + piping pressure drop
- (5) Data referred to WP option (chiller with inbuilt pump P3)
- (6) Data referred to PH option (chiller with inbuilt pump P5)

- (7) Data referred to CST / SST option (chiller with inbuilt tank)
- (8) Minimum water content for the hydraulic circuit to be verified
- (9) Data referred to XV option (expansion vessel kit)
- (10) Data referred to standard chiller configuration NT.NP (chiller without pump and without tank)
- (11) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
 - * Pump P5 is not available with Tank (T) option