



## اطلاعات فنی | TECHNICAL DATA

SBS	MODEL	SBS.610/F10	SBS.660	SBS.660/F10	SBS.720	SBS.840	SBS.930	SBS.1030	SBS.1230
Type		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
System		air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled
Cooling capacity	kW	629.3	645.6	675.8	717.6	842	965.6	1021.7	1287.5
E.E.R. at design point	kW/kW	3.47	3.15	3.41	3.35	3.34	3.16	3.06	3.16
Inlet water fluid temperature	°C	12	12	12	12	12	12	12	12
Outlet water fluid temperature	°C	7	7	7	7	7	7	7	7
Fluid type	Type	water	water	water	water	water	water	water	water
Minimum ambient temperature	°C	-20	-20	-20	-20	-20	-20	-20	-20
Design ambient temperature	°C	35	35	35	35	35	35	35	35
Elevation a.s.l.	m	0	0	0	0	0	0	0	0
Type of refrigerant gas	R	410A	410A	410A	410A	410A	410A	410A	410A
Electrical feed according EN 60204-1	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Electrical cabinet	IP	54	54	54	54	54	54	54	54
<b>COMPRESSOR DATA</b>									
Number of compressors	N°	6	6	6	6	9	9	9	12
Number of circuits	N°	2	2	2	2	3	3	3	4
Compressor E.E.R.	kW/kW	3.86	3.39	3.76	3.67	3.66	3.41	3.28	3.41
Total Compressors Nominal Absorbed Power	kW	163.2	190.4	179.8	195.6	230	283	312	377.6
Total Compressors Running current RLA	A	287.6	335.5	316.8	344.7	395.5	480	525.2	640.0
Steps	N°	4	4	4	4	6	6	6	8
<b>EVAPORATOR DATA</b>									
Number of evaporators	N°	1	1	1	1	1	1	1	1
Type of evaporator	Type	ST	ST	ST	ST	ST	ST	ST	ST
Nominal flow rate	m3/h	107.91	110.71	115.89	123.06	144.44	165.58	175.20	220.78
Minimum flow rate	m3/h	81.00	81.00	81.00	86.00	102.00	108.00	115.00	142.00
Maximum flow rate	m3/h	150.00	150.00	150.00	161.00	180.00	200.00	215.00	251.00
Pressure drops (evaporator + valves + piping)	kPa	60.79	58.80	63.77	72.71	73.73	68.74	71.76	83.68
Hydraulic connections	BSP/DN	DN150	DN150	DN150	DN150	DN150	DN200	DN200	DN200
<b>PROCESS PUMP DATA</b>									
Pump P3 (optional)									
Maximum pump absorbed power	kW	16.22	16.22	16.22	16.22	23.51	23.51	31.88	31.88
Maximum pump absorbed current	A	26.60	26.60	26.60	26.60	39.00	39.00	53.50	53.50
Available pressure with single pump (WP option)	kPa	239.71	239.50	229.94	214.09	245.06	244.68	238.11	205.47
Available pressure with double pump (DP option)	kPa	230.74	229.54	218.98	202.14	228.12	232.72	225.15	184.55
Pump P5 (optional)									
Maximum pump absorbed power	kW	31.88	31.88	31.88	39.09	39.09	39.09	47.31**	47.31**
Maximum pump absorbed current	A	53.50	53.50	53.50	65.60	65.60	65.60	77.60	77.60
Available pressure with single pump (PH option)	kPa	441.77	442.37	433.76	444.65	436.16	431.51	492.36	448.26
Available pressure with double pump (DPH option)	kPa	432.80	432.40	422.80	432.70	419.22	419.56	479.40	427.34
<b>TANK DATA (optional)</b>									
Volume (optional)	dm3	500	500	500	500	600	600	600	700
Expansion vessel volume (XV option)	dm3	19	19	19	19	38	38	38	38
<b>AIR AXIAL FANS AND CONDENSER DATA</b>									
Number of condenser coils	N°	10	8	10	10	12	12	12	16
Number of fans	N°	10	8	10	10	12	12	12	16
Total absorbed power	kW	18.40	14.72	18.40	18.40	22.08	22.08	22.08	29.44
Total absorbed current	A	38.30	30.64	38.30	38.30	45.96	45.96	45.96	61.28
Total air flow	m3/h	206000	164800	206000	206000	247200	247200	247200	329600
<b>TOTAL ELECTRIC DATA (standard configuration)</b>									
Nominal absorbed power	kW	181.60	205.12	198.20	214.00	252.18	305.28	333.68	407.04
Maximum absorbed current (FLA)	A	423.00	444.40	452.00	481.00	579.60	666.60	710.10	888.80
Maximum peak current (LRA)	A	757.30	778.60	786.30	815.30	830.30	1000.80	1044.30	1223.00
Maximum peak current with soft-start (LRA) (SF option)	A	675.70	697.00	704.70	733.70	768.30	919.20	962.70	1141.40
<b>NOISE DATA</b>									
Sound pressure level at 10m according ISO3744	dBA	68	69	69	70	68	71	71	72
Sound pressure level at 10m (low noise version)	dBA	65	65	65	66	66	67	68	69
Sound pressure level at 10m (super low noise version)	dBA	64	64	64	65	64	66	NA	NA
Sound pressure level at 10m (extra low noise version)	dBA	62	62	62	63	63	64	NA	NA
<b>DIMENSIONS</b>									
Structure in galvanized steel	RAL	7035	7035	7035	7035	7035	7035	7035	7035
Length	mm	7200	5900	7200	7200	8890	8890	8890	11490
Width	mm	2210	2210	2210	2210	2210	2210	2210	2210
Height	mm	2500	2500	2500	2500	2500	2500	2500	2500
<b>WEIGHT</b>									
Empty	kg	4750	4170	5286	4900	5900	6050	6200	7600
<b>FREE SPACE</b>									
Electrical panel side	mm	1500	1500	1500	1500	1500	1500	1500	1500
Opposite side of electrical panel	mm	1500	1500	1500	1500	1500	1500	1500	1500
Condensing coil sides	mm	2500	2500	2500	2500	2500	2500	2500	2500

**NOTE**

All data subject to change

\*\* pump P5 includes the soft start (SF) option

\* 45 feet container required for shipment.

With glycol percentage over 30% and leaving water temperature lower than 0°C, pump need to be checked by technical department

TR45 option required with ambient temperature higher than 40°C

LW option required with leaving water temperature lower than 4°C

SBS comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers, according to minimum SEPR value.