

Watercooled liquid chillers SWC series, scroll compressors R410A, coaxial evaporator and plate condenser									
Process Cooling Application	Model	SWC	005	008	010	012	016	018	022
NOMINAL COOLING CAPACITY (1)		kW	5,5	8,1	10,5	12,5	16,5	19	25,2
NOMINAL COOLING CAPACITY (1)		Frig/h	4730	6966	9030	10750	14190	16340	21672
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)		kW	1,7	2,4	3,4	3,9	5,1	5,9	6,6
COP		W/W	3,26	3,33	3,08	3,24	3,27	3,15	3,83
ESEER			4,84	4,61	4,41	4,71	4,56	4,57	5,81
IPLV			5,08	4,82	4,59	4,92	4,73	4,76	6,12
COMPRESSORS		nr.	1	1	1	1	1	1	1
CIRCUITS		nr.	1	1	1	1	1	1	1
PARTION STEP		nr.	1	1	1	1	1	1	1
<b>HYDRULIC SECTION</b>									
NOMINAL WATER FLOW		m3/h	0,9	1,4	1,8	2,2	2,8	3,1	4,3
EVAPORATOR PRESSURE DROP		Kpa	23	26	25	27	28	28	31
AVAILABLE PRESSURE		mca	25	26	26	25	24	28	25
PUMP ABSORBED POWER		kW	0,37	0,8	0,98	0,98	0,98	0,98	1,2
PUMP ABSORBED CURRENT		A	3,2	1,7	1,8	1,8	1,8	1,8	3,0
HYDRULIC CONNECTIONS		BSP/DN	3/4"	1"	1"	1"	1"	1"	1" 1/4
TANK VOLUME		dm3	40	45	45	110	110	110	110
<b>CONDENSING SECTION</b>									
TYPE OF CONDENSER - INCLUDED CONDENSING CONTROL	PLATE								
TOTAL CONDENSER FLOW (2)		m3/h	1,2	1,8	2,4	2,8	3,7	4,28	5,5
CONDENSER PRESSURE DROP (3)		Kpa	60	60	70	70	70	70	80
HYDRAULIC CONNECTIONS		BSP/DN	1"	1"	1"	1"	1"	1"	1"1/4
<b>TOTAL ELECTRIC DATA</b>									
NOMINAL ABSORBED POWER		kW	2,2	3,4	4,4	5,3	6,6	7,2	8,4
MAXIMUM ABSORBED CURRENT(F.L.A.)		A	12,5	10,5	10,5	14,3	14,6	18,8	19,8
MAXIMUM PEAK CURRENT (L.R.A.)		A	46	48	48	71	71	75	104
ELECTRIC FEED		V/Ph/Hz	230/1/50			400/3/50/N			
<b>NOISE DATA</b>									
SOUND PRESSURE (4)		dB(A)	50	47	46	47	47	48	50
<b>DIMENSIONS AND WEIGHT</b>									
LENGTH		mm	600	818	818	1008	1008	1008	1008
WIDTH		mm	650	613	613	718	718	718	718
HEIGHT		mm	1050	1360	1360	1580	1580	1580	1580
WEIGHT EMPTY		kg	110	175	180	210	225	230	240
WEIGHT OPERATING		kg	165	225	230	340	355	360	370

The manufacturer reserves the right to modify specifications without notice

updated on 08/05/2013

Data referred to:

(1) Inlet/Outlet water temperature = +12/+7 °C - fouling factor = 0.000043 m<sup>2</sup>K/W

(2) Condenser water inlet/outlet temperature = +30/+35°C

(3) Included condensing control

(4) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

**Watercooled liquid chillers SWC series, scroll compressors R410A, coaxial evaporator, plate/shell&tube condenser**

<b>Process Cooling Application</b>	<b>Model</b>	<b>SWC</b>	<b>030</b>	<b>038</b>	<b>045</b>	<b>051</b>	<b>061</b>	<b>070</b>	<b>075</b>	<b>085</b>	<b>095</b>
NOMINAL COOLING CAPACITY (1)		kW	31,5	40,4	46,2	53	61,4	74	80	92	96
NOMINAL COOLING CAPACITY (1)		Frig/h	27090	34744	39732	45580	52804	66478	68800	79120	82560
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)		kW	8,2	10,5	12,1	16,4	16,9	19,4	20,9	24,0	25,0
COP		kW/kW	3,85	3,86	3,83	3,23	3,63	3,81	3,82	3,83	3,81
ESEER			6,04	5,8	5,75	4,71	5,82	5,73	5,82	5,75	5,88
IPLV			6,35	6,13	6,04	4,96	6,12	5,73	6,13	6,04	5,1
COMPRESSORS		nr.	1	1	1	1	2	2	2	2	2
CIRCUITS		nr.	1	1	1	1	1	1	1	1	1
PARTION STEP		nr.	1	1	1	1	1/1	1/1	1/1	1/1	1/1
<b>HYDRAULIC SECTION</b>											
NOMINAL WATER FLOW		m3/h	5,4	6,9	7,9	8,0	10,6	13,2	13,9	16,0	16,5
EVAPORATOR PRESSURE DROP		Kpa	31	32	32	33	34	33	32	38	39
AVAILABLE PRESSURE		mca	28	30	28	30	30	31	29	27	27
PUMP ABSORBED POWER		kW	1,28	1,28	2,3	2,57	2,56	2,56	2,7	3,5	3,5
PUMP ABSORBED CURRENT		A	2,4	2,4	4,2	4,6	4,6	4,6	4,6	6,1	6,1
HYDRAULIC CONNECTIONS		BSP/DN	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"
TANK VOLUME		dm3	270	270	270	270	390	390	390	390	390
<b>CONDENSING SECTION</b>											
TYPE OF CONDENSER - INCLUDED CONDENSING CONTROL			PLATE				SHELL&TUBE				
TOTAL CONDENSER FLOW (2)		m3/h	6,8	8,7	10	12	13,3	16	17	20	20,8
CONDENSER PRESSURE DROP (3)		Kpa	80	90	90	90	85	87	90	108	97
HYDRAULIC CONNECTIONS		BSP/DN	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"
<b>TOTAL ELECTRIC DATA</b>											
NOMINAL ABSORBED POWER		kW	9,3	12,8	14,4	18,9	18,6	21,96	23,6	27,7	28,5
MAXIMUM ABSORBED CURRENT(F.L.A.)		A	32,0	36,8	39,8	47,8	63,0	67,0	69,0	76,9	78,9
MAXIMUM PEAK CURRENT (L.R.A.)		A	130	145	175	220	130	137	145	175	320
<b>ELECTRIC FEED</b>		V/Ph/Hz	400/3/50								
<b>NOISE DATA</b>											
SOUND PRESSURE (4)		dB(A)	49,0	52,5	53,0	53,0	52,0	54,0	55,5	56,0	58,5
<b>DIMENSIONS AND WEIGHT</b>											
LENGTH		mm	1610	1610	1610	1610	2220	2220	2220	2220	2220
WIDTH		mm	860	860	860	860	1011	1011	1011	1011	1011
HEIGHT		mm	1540	1540	1540	1540	1990	1990	1990	1990	1990
WEIGHT EMPTY		kg	390	400	430	450	710	785	800	815	870
WEIGHT OPERATING		kg	690	700	730	750	1125	1200	1215	1230	1290

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updated on 03/06/2013

Data referred to:

(1) Evaporator inlet/Outlet clean water temperature = +12/+7 °C; fouling factor = 0.000043 m<sup>2</sup>K/W

(2) Condenser water inlet/outlet temperature = +30/+35°C

(3) Included condensing control

(4) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

**Watercooled liquid chillers SWC series, scroll compressors R410A, shell&tube evaporator and condenser**

<b>Process Cooling Application</b>	<b>Model</b>	<b>SWC</b>	<b>120</b>	<b>150</b>	<b>180</b>	<b>220</b>	<b>270</b>	<b>330</b>	<b>360</b>	<b>430</b>	<b>480</b>
NOMINAL COOLING CAPACITY (1)		kW	129,1	162	185	241	295	365	396	470	504
NOMINAL COOLING CAPACITY (1)		Frig/h	111026	139320	159100	207260	253700	313900	340560	404200	433000
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)		kW	33,5	41,8	48,2	63,1	76,8	94,3	104,3	125,6	148,5
COP		kW/kW	3,85	3,86	3,83	3,81	3,84	3,87	3,80	3,74	3,40
ESEER			6,04	5,87	5,86	5,87	5,77	5,82	5,80	5,90	5,66
IPLV			6,35	6,19	6,16	6,18	6,07	6,11	6,10	6,07	6,02
COMPRESSORS		nr.	4	4	4	4	4	4	6	6	6
CIRCUITS		nr.	2	2	2	2	2	2	2	2	2
PARTION STEP		nr.	2/2	2/2	2/2	2/2	2/2	2/2	3/2	3/2	3/2
<b>HYDRAULIC SECTION</b>											
NOMINAL WATER FLOW		m3/h	22,2	27,8	31,8	41,4	51,0	62,8	68,0	80,0	86,6
EVAPORATOR PRESSURE DROP		Kpa	39	39	38	36	40	40	43	43	49
AVAILABLE PRESSURE		mca	30,0	30	27	26	29	28	28	28	27
PUMP ABSORBED POWER		kW	4,8	4,8	6,7	6,7	9,1	9,1	10,17	10,17	12,22
PUMP ABSORBED CURRENT		A	9,8	9,8	11,8	11,8	15	15	16,7	16,7	20,3
HYDRAULIC CONNECTIONS		BSP/DN	DN65	DN65	DN65	DN125	DN125	DN150	DN150	DN150	DN200
TANK VOLUME		dm3	390	390	390	500	500	500	500	500	500
<b>CONDENSING SECTION</b>											
TYPE OF CONDENSER - INCLUDED CONDENSING CONTROL						SHELL&TUBE					
TOTAL CONDENSER FLOW (2)		m3/h	28	35	40,1	52	64	79	86	102	112
CONDENSER PRESSURE DROP (3)		Kpa	96	87	93	100	100	120	130	130	130
HYDRAULIC CONNECTIONS		BSP/DN	2 x 2"	2 x 2"	2 x 2"	2 x 2"1/2	2 x 2"1/2	2 x 2"1/2	2 x DN 100	2 x DN 100	2 x DN 100
<b>TOTAL ELECTRIC DATA</b>											
NOMINAL ABSORBED POWER		kW	38,3	46,6	54,9	69,8	85,9	103,4	114,2	135,7	160,6
MAXIMUM ABSORBED CURRENT(F.L.A.)		A	100,0	125,0	145,0	190,0	234,0	280,0	302,0	340,0	390,0
MAXIMUM PEAK CURRENT (L.R.A.)		A	221	257	312	365	444	538	467	550	600
<b>ELECTRIC FEED</b>		V/Ph/Hz	400/3/50								
<b>NOISE DATA</b>											
SOUND PRESSURE (4)		dB(A)	55,0	58,5	59,0	60,3	60,8	62,0	64,0	65,0	66,0
<b>DIMENSIONS AND WEIGHT</b>											
LENGTH		mm	3350	3350	3350	4350	5350	5350	6350	6350	6350
WIDTH		mm	1100	1100	1100	1100	1100	1100	1100	1100	1100
HEIGHT		mm	2180	2180	2180	2180	2180	2180	2180	2180	2180
WEIGHT EMPTY		kg	1265	1440	1595	1915	2115	2160	2390	2560	2720
WEIGHT OPERATING		kg	1950	2155	2350	2695	3025	3080	3310	3480	3640

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