

**Aircooled liquid chillers CSE series, scroll compressors R410A, coaxial/shell and tube evaporator, condenser with copper tubes and aluminium finned core and centrifugal fans**

Process Cooling Application	Model	30	038	45	061	75	100	Fan speed regulation with INVERTER						
								130	160	185	230	280	340	370
NOMINAL COOLING CAPACITY (1)	kW	30	39	45	61	74	102	121	152	171	237	290	337	377
NOMINAL COOLING CAPACITY (1)	Frig/h	25800	33712	38442	52202	63726	87978	104060	130634	147232	204164	249400	290173	324177
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)	kW	8,4	10,3	12,7	16,4	21,8	28,5	32,6	42,6	52,4	62,3	80,7	91,2	105,6
COP	kW/kW	3,55	3,82	3,52	3,69	3,39	3,59	3,71	3,57	3,27	3,81	3,59	3,70	3,57
EER	kW/kW	2,82	3,15	3,00	3,07	2,95	2,97	2,91	2,95	2,79	3,20	3,03	3,09	3,05
ESEER		4,5	4,7	4,4	4,7	4,5	4,3	4,4	4,3	4,4	4,2	4,1	4,0	4,1
IPLV		5,1	5,3	5,0	5,2	5,0	4,7	4,7	4,7	4,8	4,7	4,5	4,5	4,5
COMPRESSORS	nr.	1	1	1	2	2	2	4	4	4	4	4	4	4
REFRIGERATING CIRCUITS	nr.	1	1	1	1	1	1	2	2	2	2	2	2	2
PARTION STEP	nr.	1	1	1	1/1	1/1	1/1	2/2	2/2	2/2	2/2	2/2	2/2	2/2
REFRIGERANT		R410A												
<b>HYDRAULIC SECTION</b>														
NOMINAL WATER FLOW	m3/h	5,2	6,7	7,7	10,4	12,7	17,6	20,8	26,1	29,4	40,8	49,9	58,0	64,8
TYPE OF EVAPORATOR (4)		Self-cleaning coaxial evaporator						Shell and tube evaporator						
EVAPORATOR PRESSURE DROP	kPa	54	53	56	52	55	54	67	66	62	68	67	59	63
AVAILABLE PRESSURE	mca	21	23	23	26	24	24	29	27	26	23	28	27	25
MAXIMUM PUMP ABSORBED POWER	P2 kW	1,28	2,20	2,20	2,57	2,57	3,49	4,58	4,58	4,58	6,27	8,62	8,62	8,62
MAXIMUM PUMP ABSORBED CURRENT	A	2,37	4,24	4,24	4,64	4,64	6,14	7,77	7,77	7,77	10,4	14,3	14,3	14,3
AVAILABLE PRESSURE	mca	50	62	58	44	42	49	46	45	47	46	43	41	47
MAXIMUM PUMP ABSORBED POWER	P5 kW	1,47	2,94	2,94	4,58	4,58	8,62	8,62	8,62	10,18	12,24	12,24	12,24	16,52
MAXIMUM PUMP ABSORBED CURRENT	A	2,32	5,83	5,83	7,77	7,77	14,3	14,3	14,3	16,7	20,3	20,3	20,3	26,2
HYDRAULIC CONNECTIONS	BSP/DN	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	DN65	DN65	DN65	DN125	DN125	DN125	DN150
TANK VOLUME	dm3	270	270	270	410	410	410	390	390	390	500	500	500	500
<b>FAN SECTION (CENTRIFUGAL)</b>														
TOTAL AIR FLOW	m3/h	11100	10600	10600	16500	16200	26800	43200	42000	42000	56800	68500	82200	79200
FANS	nr.	2	2	2	3	3	2	3	3	3	4	5	6	6
FANS ABSORBED POWER	kW	2,20	2,20	2,20	3,30	3,30	6,00	9,00	9,00	9,00	12,00	15,00	18,00	18,00
FANS ABSORBED CURRENT	A	9,80	9,80	9,80	14,70	14,70	24,80	37,20	37,20	37,20	49,60	62,00	74,40	74,40
<b>TOTAL ELECTRIC DATA</b>														
NOMINAL ABSORBED POWER (3)	kW	11,9	14,7	17,1	22,3	27,7	38,0	46,2	56,1	66,0	80,6	104,3	117,8	132,2
MAXIMUM ABSORBED CURRENT(F.L.A.) (3)	A	31,4	38,5	44,0	57,8	68,3	97,4	121,9	142,9	165,0	205,8	254,7	296,5	325,9
MAXIMUM PEAK CURRENT (L.R.A.) (3)	A	120,4	144,2	178,2	156,6	183,8	285,9	220,7	258,4	309,0	394,3	482,1	547,2	576,6
ELECTRIC FEED	V/Ph/Hz	400/3/50/PE												
<b>NOISE DATA</b>														
SOUND PRESSURE (2) (3)	dB(A)	54,3	55,0	55,2	56,1	56,4	60,9	62,9	63,1	63,2	65,0	66,4	66,8	66,8
<b>DIMENSIONS AND WEIGHT</b>														
LENGTH	mm	1610	1610	1610	2220	2220	2220	3355	3355	3355	5350	5350	6350	6350
WIDTH	mm	860	860	860	1100	1100	1100	1305	1305	1305	1305	1305	1305	1305
HEIGHT	mm	1860	1860	1860	2100	2100	2350	2350	2350	2350	2350	2350	2350	2350
WEIGHT EMPTY	kg	520	560	590	890	970	1080	1940	2020	2100	3260	3340	3780	3940
WEIGHT OPERATIVE	kg	880	920	950	1320	1400	1510	2690	2770	2850	4170	4250	4700	4860

The manufacturer reserves the right to modify specifications without notice.

Updated on 03/12/2014

Data referred to:

- (1) Inlet/Outlet water temperature = +12/+7 °C - Condenser air temperature = +32°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 model that mounts the pump P2
- (4) Stainless steel coaxial evaporator available on request

**NOTE:**

- Each model has a available pressure at air side about 200Pa
- Free cooling available on request