

**Aircooled liquid chillers ECS series, screw compressors R407C, shell and tube evaporator, condenser with copper tubes and aluminium finned core and axial fans**

<b>Cooling Big Evolution</b>	<b>Model</b>	<b>220</b>	<b>290</b>	<b>330</b>	<b>390</b>	<b>430</b>	<b>500</b>	<b>580</b>	<b>630</b>	<b>690</b>	<b>800</b>	<b>860</b>	<b>940</b>	<b>1060</b>	<b>1200</b>	<b>1330</b>	<b>1430</b>	
NOMINAL COOLING CAPACITY (1)	kW	221	290	327	393	435	503	582	633	688	793	863	937	1048	1204	1328	1438	
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)	kW	75,7	93,1	104,7	127,9	139,4	157,7	183,7	201,3	221,3	259,6	267,3	303,7	340,7	393,7	430,6	454,0	
COP (1)	kW/kW	2,92	3,12	3,12	3,07	3,12	3,19	3,17	3,15	3,11	3,06	3,23	3,08	3,08	3,06	3,08	3,17	
EER (1)	kW/kW	2,65	2,77	2,81	2,74	2,81	2,91	2,87	2,87	2,81	2,80	2,93	2,80	2,82	2,81	2,83	2,89	
ESEER		3,47	3,54	3,61	3,54	3,64	3,81	3,74	3,79	3,69	3,77	3,84	3,70	3,79	3,77	3,78	3,81	
IPLV		3,95	4,01	4,11	4,02	4,13	4,34	4,26	4,31	4,20	4,30	4,36	4,21	4,32	4,30	4,31	4,35	
COMPRESSORS	nr.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
REFRIGERATING CIRCUITS	nr.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
PARTITION STEPS	%	0-33-66-100					0-25-50-75-100											
<b>HYDRAULIC SECTION</b>																		
NOMINAL WATER FLOW	m <sup>3</sup> /h	38,0	49,9	56,3	67,7	74,8	86,6	100,1	108,9	118,3	136,5	148,4	161,1	180,3	207,2	228,5	247,3	
EVAPORATOR PRESSURE DROP	kPa	55	50	48	50	55	62	56	62	65	56	60	63	55	61	66	65	
AVAILABLE PRESSURE (2)	mca	25,7	25,7	24,7	21,9	22,6	24,4	23,1	24,2	23,1	22,2	20,5	21,1	25,8	24,2	22,4	21,2	
MAXIMUM PUMP ABSORBED POWER (2)	kW	6,1	8,3	8,3	8,3	10,3	12,0	12,0	16,2	16,2	16,2	16,2	19,8	23,5	23,5	23,5	23,5	
MAXIMUM PUMP ABSORBED CURRENT (2)	A	10,4	14,1	14,1	14,1	17,4	20,2	20,2	26,6	26,6	26,6	26,6	33,3	39,0	39,0	39,0	39,0	
HYDRAULIC CONNECTIONS (VICTAULIC)	DN	125	125	125	125	150	150	150	150	150	200	200	200	200	200	200	200	
TANK VOLUME (2)	dm <sup>3</sup>	450	600	600	600	600	600	600	600	800	800	800	800	800	800	1000	1000	
<b>FAN SECTION (AXIAL)</b>																		
TOTAL AIR FLOW	m <sup>3</sup> /h	69000	103800	103500	138400	138000	128400	172000	162000	194400	194400	225400	257600	259200	291600	324000	356400	
FANS	nr.	4	6	6	8	8	8	10	10	12	12	14	16	16	18	20	22	
FANS ABSORBED POWER	kW	7,76	11,64	11,64	15,52	15,52	15,52	19,40	19,40	23,28	23,28	27,16	31,04	31,04	34,92	38,80	42,68	
FANS ABSORBED CURRENT	A	15,60	23,40	23,40	31,20	31,20	31,20	39,00	39,00	46,80	46,80	54,60	62,40	62,40	70,20	78,00	85,80	
<b>TOTAL ELECTRIC DATA</b>																		
MAXIMUM ASSORBED CURRENT PER COMPRESSOR (F.L.A.)	A	87,0	115,0	122,0	146,0	163,0	183,0	209,0	229,0	254,0	294,0	319,0	319,0	374,0	430,0	473,0	508,0	
MAXIMUM PEAK CURRENT PER COMPRESSOR (PW) (L.R.A.)	A	163 / 325	239 / 450	239 / 450	329 / 530	423 / 650	497 / 765	640 / 985	640 / 985	646 / 950	915 / 1345	996 / 1465	996 / 1465	527 / 1580	693 / 2080	777 / 2330	827 / 2480	
MOTOR CONNECTION (PW = part winding; Y-D = star-delta)	PW	PW	PW	PW	PW	PW	PW	PW	PW	PW	PW	PW	PW	Y-D	Y-D	Y-D	Y-D	
ELECTRIC FEED	V/Ph/Hz	400/3/50																
<b>NOISE DATA</b>																		
SOUND PRESSURE (3)	dB(A)	62,4	64,0	65,2	66,1	66,2	66,4	67,3	67,8	69,0	69,6	70,4	71,3	71,7	72,0	72,3	72,7	
<b>DIMENSIONS AND WEIGHT</b>																		
LENGTH	mm	3100	4050	4050	5000	5000	5000	5950	5950	6900	6900	7850	8800	8800	9750	10700	11650	
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	
WEIGHT EMPTY	kg	2900	3460	3630	4270	4340	4480	5280	5430	6220	6360	7200	7700	7900	8620	9680	10610	
WEIGHT OPERATIVE	kg	3050	3620	3800	4450	4520	4670	5500	5660	6470	6650	7500	8050	8250	8970	10060	11000	

The manufacturer reserves the right to modify specifications without notice.

Updated on 19/05/2015

Data referred to:

(1) 100% of Load - Inlet/Outlet water temperature = +12/+7 °C - Condenser air temperature = +35°C; fouling factor = 0.000043 m<sup>2</sup>K/W.

(2) With options NT.WP (no tank - water pump) or T.WP (tank - water pump).

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