

Aircooled liquid chillers EET series, screw compressors R134a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned core and axial fans

Cooling Big Evolution	Model	210	250	300	350	400	470	510	580	650	700	850	1000	1100	1210	1350	1500	
NOMINAL COOLING CAPACITY (1)	kW	233	268	308	358	419	474	518	585	658	728	870	1017	1132	1290	1383	1498	
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)	kW	64,7	75,4	77,8	97,4	116,4	122,2	139,4	164,0	178,6	210,0	245,2	261,1	321,0	355,2	399,0	424,0	
EER	kW/kW	3,22	3,22	3,44	3,28	3,27	3,44	3,34	3,26	3,32	3,17	3,24	3,48	3,22	3,31	3,16	3,21	
SEPR (HT) (8)		5,22	5,19	5,44	5,36	5,35	5,42	5,37	5,31	5,35	5,06	5,08	5,52	5,21	5,34	5,04	5,05	
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 PER COMPRESSOR	%	50-75-100																
HYDRAULIC SECTION																		
NOMINAL WATER FLOW	m ³ /h	40,1	46,1	53,0	61,6	72,1	81,5	89,1	100,6	113,2	125,2	149,6	174,9	194,7	221,9	237,9	257,7	
WATER FLOW RANGE	m ³ /h	22÷50	23÷59	29÷74	32÷80	42÷107	42÷107	50÷125	58÷143	58÷144	70÷162	83÷210	95÷240	110÷251	121÷251	152÷323	167÷330	
TYPE OF EVAPORATOR		Shell and tube evaporator																
EVAPORATOR PRESSURE DROP	kPa	37	43	50	58	59	62	60	49	57	50	58	64	65	60	66	73	
AVAILABLE PRESSURE (2)	kPa	269,1	256,2	234,5	221,6	210,8	195,0	247,1	251,2	234,4	234,5	251,0	235,2	222,4	212,7	269,5	240,9	
MAXIMUM PUMP ABSORBED POWER (2)	P3	kW	8,3	8,3	8,3	8,3	10,2	10,2	10,2	16,2	16,2	16,2	24,9	24,9	31,9	31,9	39,1	
MAXIMUM PUMP ABSORBED CURRENT (2)		A	14,1	14,1	14,1	14,1	17,4	17,4	17,4	26,6	26,6	26,6	42,2	42,2	53,5	53,5	65,6	
AVAILABLE PRESSURE (3)	kPa	491,8	482,8	466,0	475,7	465,8	451,1	441,3	453,3	439,4	466,0	448,2	500,1	486,3	463,9	444,1	410,6	
MAXIMUM PUMP ABSORBED POWER (3)	P5	kW	16,2	16,2	16,2	16,2	24,9	24,9	24,9	31,9	31,9	31,9	39,1	39,1	47,3*	47,3*	57,7*	
MAXIMUM PUMP ABSORBED CURRENT (3)		A	26,6	26,6	26,6	26,6	42,4	42,4	42,4	53,5	53,5	53,5	65,6	65,6	77,6	77,6	93,5	
HYDRAULIC CONNECTIONS (VICTAULIC)	DN	125	125	125	125	125	150	150	150	150	150	200	200	200	200	200	200	
TANK VOLUME (4)	dm ³	450	450	600	600	600	600	600	600	600	600	800	800	800	800	1000	1000	
EXPANSION VESSELS NUMBER AND VOLUME (5)	nr. x liters	1 x 19										2 x 19						
FAN SECTION (AXIAL)																		
RV "fan speed cut-phase regulator" included. RV inklusive																		
TOTAL AIR FLOW	m ³ /h	70000	70000	105000	103200	97200	140000	128800	129600	172000	162000	194400	259200	259200	273600	304000	334400	
FANS	nr.	4	4	6	6	6	8	8	8	10	10	12	16	16	18	20	22	
FANS ABSORBED POWER	kW	7,76	7,76	11,64	11,64	11,64	15,52	15,52	15,52	19,40	19,40	23,28	31,04	31,04	34,92	38,80	42,68	
FANS ABSORBED CURRENT	A	15,60	15,60	23,40	23,40	23,40	31,20	31,20	31,20	39,00	39,00	46,80	62,40	62,40	70,20	78,00	85,80	
TOTAL ELECTRIC DATA																		
IP54 protection rating, chillers suitable for outdoor installation																		
MAXIMUM ASSORBED CURRENT POWER (7)	kW	72,5	83,2	89,4	109,0	128,0	137,7	154,9	179,5	198,0	229,4	268,5	292,1	352,0	390,1	437,8	466,7	
MAXIMUM ABSORBED CURRENT (F.L.A) (7)	A	147,6	187,6	239,4	271,4	311,4	355,2	341,2	395,2	431,0	467,0	606,8	682,4	702,4	790,2	904,0	979,8	
MAXIMUM PEAK CURRENT (L.R.A) (7)	A	419,6	512,6	639,4	632,4	752,4	1061,2	861,2	1014,2	1208,0	1276,0	1690,8	1814,4	2235,4	2459,2	3011,0	3402,8	
MAXIMUM PEAK CURRENT WITH SOFT START OPTION (L.R.A) (7)	A	352,0	430,4	537,8	535,4	635,4	887,6	726,2	854,0	1013,4	1071,4	1418,0	1526,0	1864,8	2053,4	2507,0	2828,8	
ELECTRIC FEED	V/Ph/Hz	400/3/50																
NOISE DATA																		
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	64,3	65,5	66,3	65,8	65,9	66,4	68,7	69,8	69,2	69,4	70,4	71,0	71,5	72,3	73,0	73,5	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (6) (7)	dB(A)	62,3	63,0	64,2	64,0	64,0	64,9	66,1	66,7	66,8	66,9	67,8	68,7	69,0	69,7	70,3	70,7	
DIMENSIONS AND WEIGHT																		
LENGTH	mm	3100	3100	4050	4050	4050	5000	5000	5000	5950	5950	6900	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 FOR STANDARD CONFIGURATION (10)	kg	3000	3150	3900	4200	4300	4700	4800	4900	5600	5850	6500	8400	8500	9400	10400	11300	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (10)	kg	3150	3300	4060	4370	4480	4890	5000	5100	5820	6100	6790	8750	8850	9750	10780	11690	

The manufacturer reserves the right to modify specifications without notice.

Updated on 11/01/2018

Data referred to:
 (1) Inlet/Outlet water temperature = +12/+7 °C - Condenser air temperature = +35°C; fouling factor = 0.000043 m²K/W.
 (2) Data referred to WP option(chiller with inbuilt pump P3)
 (3) Data referred to PH option(chiller with inbuilt pump P5)
 (4) Minimum water content for the hydraulic circuit to be verified.
 (5) Data referred to XV optin(expansion vessel kit)
 (6) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.
 (7) Data referred to standard chiller configuration NT.NP (chiller without pump and without tank)
 (8) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
 *pump P5 includes the soft start (SF) option