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Aircooled liquid chillers ENR series, scroll compressors, plate / coaxial evaporator, condenser with copper tubes, aluminium finned core and axial fans

Process Cooling Application		**Model**	**001**	**002**	**003**	**004**	**005**	**008**	**010**	**012**	**016**	**018**	**022**
NOMINAL COOLING CAPACITY (1)		kW	1,6	2,1	3,6	4,2	5,5	7,9	9,3	12,2	13,5	18	22,0
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)		kW	0,5	0,7	1,2	1,4	1,8	2,6	3,4	3,9	5,2	5,8	6,7
EER			2,97	2,59	2,79	2,82	2,89	2,77	2,55	2,78	2,37	2,78	2,93
SEPR (HT) (5)			4,69	4,61	4,65	4,90	4,77	4,57	4,63	4,72	4,79	4,66	4,88
COMPRESSORS		nr.	1	1	1	1	1	1	1	1	1	1	1
REFRIGERATING CIRCUITS		nr.	1	1	1	1	1	1	1	1	1	1	1
PARTITION STEP		nr.	1	1	1	1	1	1	1	1	1	1	1
REFRIGERANT		R	R410A										
HYDRAULIC SECTION													
NOMINAL WATER FLOW		m3/h	0,3	0,4	0,6	0,7	0,9	1,4	1,6	2,1	2,3	3,1	3,8
WATER FLOW RANGE		m3/h	0,3 ÷ 2	0,3 ÷ 2	0,6 ÷ 2,2	0,6 ÷ 2,2	0,8 ÷ 2,2	1,2 ÷ 2,4	1,4 ÷ 3	1,2 ÷ 2,9	1,2 ÷ 2,9	2,5 ÷ 5	3 ÷ 6
TYPE OF EVAPORATOR			Plate evaporator		Self - cleaning coaxial evaporator								
EVAPORATOR PRESSURE DROP		kPa	20	22	22	23	23	26	25	27	28	28	31
AVAILABLE PRESSURE		kPa	301	294	279	269	252	262	270	263	264	249	241
MAXIMUM PUMP ABSORBED POWER	**P3**	kW	0,56	0,56	0,56	0,56	0,56	0,98	0,98	0,98	0,98	0,98	1,28
MAXIMUM PUMP ABSORBED CURRENT		A	3,46	3,46	3,46	3,46	3,46	1,78	1,78	1,78	1,78	1,78	2,37
AVAILABLE PRESSURE		kPa	-	-	461	451	431	611	593	562	492	570	518
MAXIMUM PUMP ABSORBED POWER	**P5**	kW	-	-	0,74	0,74	0,74	1,10	1,10	1,10	1,10	1,47	1,47
MAXIMUM PUMP ABSORBED CURRENT		A	-	-	3,22	3,22	3,22	2,17	2,17	2,17	2,17	2,86	2,86
HYDRULIC CONNECTIONS		BSP/DN	1/2"	1/2"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"	1"
TANK VOLUME		dm3	10	10	40	40	40	50	50	50	50	110	110
EXPANSION VESSEL VOLUME (3)		liters	N.A.					5				8	
FAN SECTION (AXIAL)													
TOTAL AIR FLOW		m3/h	700	650	1300	1200	1500	4100	4100	4750	4750	6500	7400
FANS		nr.	1	1	1	1	1	1	1	1	1	1	1
FANS ABSORBED POWER		kW	0,07	0,11	0,09	0,09	0,10	0,25	0,25	0,49	0,49	0,68	0,81
FANS ABSORBED CURRENT		A	0,4	0,8	0,4	0,4	0,5	1,1	1,1	2,4	2,4	3,0	1,5
TOTAL ELECTRIC DATA			IP54 protection rating, chillers suitable for outdoor installation										
NOMINAL ABSORBED POWER (4)		kW	1,1	1,4	1,9	2,1	2,5	3,8	4,6	5,4	6,7	7,5	8,8
MAXIMUM ABSORBED CURRENT(F.L.A.) (4)		A	6,1	7,5	9,6	10,5	12,5	10,1	10,5	13	13,9	18,8	19,8
MAXIMUM PEAK CURRENT (L.R.A.) (4)		A	16	21	27	40	46	50	50	71	71	75	104
ELECTRIC FEED		V/Ph/Hz	230/1/50					400/3/50/N					400/3/50
NOISE DATA													
SOUND PRESSURE (2) (4)		dB(A)	51	51	51	51	51	51	51	52	52	53	55,8
DIMENSIONS AND WEIGHT													
LENGTH		mm	445	445	600	600	600	820	820	820	820	1010	1010
WIDTH		mm	420	420	655	655	655	615	615	615	615	720	720
HEIGHT		mm	740	740	1035	1035	1035	1360	1360	1360	1360	1580	1580
WEIGHT EMPTY		kg	55	55	85	90	95	160	165	170	175	210	260
WEIGHT OPERATING		kg	65	65	125	130	135	210	215	220	225	340	390

The manufacturer reserves the right to modify specifications without notice

updated on 09/01/2018

Data refered to:

(1) Inlet/Outlet water temperature = +12/+7 °C - Condenser air temperature = +35°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) With option XV (expansion vessel kit)

(4) Data referred to standard configuration WP (with pump P3)

(5) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers

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Aircooled liquid chillers ENR series, scroll compressors, coaxial/shell and tube evaporator, condenser with copper tubes and aluminium finned core and axial fans

RV "fan speed cut-phase regulator" included

Process Cooling Application		**Model**	**030**	**038**	**045**	**055**	**061**	**070**	**075**	**090**	**100**	**130**	**160**	**185**	**200**	**230**	**280**	**340**	**370**	**430**
NOMINAL COOLING CAPACITY (1)		kW	31	37	45	55	61	67	72	88	100	115	150	170	204	227	277	319	365	410
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)		kW	8,4	11,5	12,4	17,3	16,4	19,3	22,4	25,2	29,1	35,6	45,6	52,4	55,2	66,8	85,2	97,8	108,0	125,0
EER			3,15	2,82	3,25	2,91	3,23	2,89	2,74	3,03	3,03	2,92	2,92	2,92	3,24	2,97	2,92	2,97	3,05	3,00
SEPR (HT) (5)			5,11	4,59	5,28	4,80	5,01	4,78	4,75	4,91	5,01	5,02	4,59	4,94	5,45	4,87	4,84	4,94	5,14	5,07
COMPRESSORS		nr.	1	1	1	1	2	2	2	2	2	4	4	4	4	4	4	4	4	4
REFRIGERATING CIRCUITS		nr.	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
PARTITION STEP		nr.	1	1	1	1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
REFRIGERANT			R410A																	
HYDRAULIC SECTION																				
NOMINAL WATER FLOW		m3/h	5,3	6,4	7,7	9,5	10,5	11,5	12,4	15,1	17,2	19,8	25,8	29,2	35,1	39,0	47,6	54,9	62,8	70,5
WATER FLOW RANGE		m3/h	4 ÷ 6	6 ÷ 12	6 ÷ 12	6 ÷ 12	8 ÷ 18	10 ÷ 20	10 ÷ 20	10 ÷ 20	10 ÷ 20	14 ÷ 27	15,4 ÷ 31	17,5 ÷ 35	25 ÷ 46	25 ÷ 46	31 ÷ 58	38 ÷ 70	45 ÷ 80	52 ÷ 100
TYPE OF EVAPORATOR			Self-cleaning coaxial evaporator									Shell and tube evaporator								
EVAPORATOR PRESSURE DROP		kPa	34	34	39	51	23	20	20	28	39	54	54	55	48	56	56	48	55	61
AVAILABLE PRESSURE		kPa	218	245	236	220	220	222	205	212	197	211	207	201	265	259	249	245	234	220
MAXIMUM PUMP ABSORBED POWER	P3	kW	1,28	2,20	2,20	2,20	2,53	2,53	2,53	2,53	2,53	4,56	4,56	4,56	8,30	8,30	8,30	8,30	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT		A	2,37	4,24	4,24	4,24	4,56	4,56	4,56	4,56	4,56	7,75	7,75	7,75	14,1	14,1	14,1	14,1	17,4	17,4
AVAILABLE PRESSURE		kPa	422	618	577	518	469	471	471	460	445	449	443	438	482	475	469	469	450	414
MAXIMUM PUMP ABSORBED POWER	P5	kW	1,47	2,94	2,94	2,94	6,12	6,12	6,12	6,12	6,12	10,20	10,20	10,20	16,22	16,22	16,22	16,22	16,22	19,94
MAXIMUM PUMP ABSORBED CURRENT		A	2,86	5,83	5,83	5,83	10,4	10,4	10,4	10,4	10,4	17,4	17,4	17,4	26,6	26,6	26,6	26,6	26,6	32,7
HYDRAULIC CONNECTIONS		BSP/DN	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	DN65	DN65	DN65	DN125	DN125	DN125	DN125	DN150	DN150
TANK VOLUME		dm3	270	270	270	270	410	410	410	410	410	390	390	390	390	500	500	500	500	500
EXPANSION VESSEL VOLUME (3)		liters	12				19													
FAN SECTION (AXIAL)																				
TOTAL AIR FLOW		m3/h	16000	16400	15000	15600	25000	36000	36000	34000	32000	40000	57000	54000	68800	91000	90000	85000	102000	96000
FANS		nr.	2	2	2	2	2	2	2	2	2	2	3	3	4	5	5	5	6	6
FANS ABSORBED POWER		kW	1,44	1,62	1,44	1,62	2,50	3,88	3,88	3,88	3,88	3,88	5,82	5,82	7,76	9,70	9,70	9,70	11,64	11,64
FANS ABSORBED CURRENT		A	2,82	3,08	2,82	3,08	4,96	7,80	7,80	7,80	7,80	7,80	11,70	11,70	15,60	19,50	19,50	19,50	23,40	23,40
TOTAL ELECTRIC DATA			IP54 protection rating, chillers suitable for outdoor installation																	
NOMINAL ABSORBED POWER (4)		kW	11,1	15,3	16,0	21,1	21,4	25,7	28,8	31,6	35,5	44,0	56,0	62,8	71,3	84,8	103,2	115,8	129,8	146,8
MAXIMUM ABSORBED CURRENT(F.L.A.) (4)		A	24,4	31,8	37,1	43,8	48,0	56,1	61,3	72,4	78,8	92,5	117,3	139,5	162,6	179,4	212,0	241,4	278,0	307,0
MAXIMUM PEAK CURRENT (L.R.A.) (4)		A	120,4	144,2	178,2	229,2	146,8	171,6	176,8	216,4	267,4	191,2	232,9	283,5	351,1	367,9	439,4	492,1	528,7	641,2
ELECTRIC FEED		V/Ph/Hz	400/3/50																	
NOISE DATA																				
SOUND PRESSURE (2) (4)		dB(A)	55,3	57,5	55,8	58,8	59,1	59,2	59,3	59,5	60,3	59,5	61,1	61,4	63,1	64,3	65,7	65,7	66,1	67,5
SOUND PRESSURE FOR LOW NOISE CONFIGURATION(2) (4)		dB(A)	54,9	55,1	55,1	55,8	58,8	58,8	58,9	58,9	59,2	58,9	60,5	60,6	62,0	63,0	63,7	63,7	64,2	65,1
DIMENSIONS AND WEIGHT																				
LENGTH		mm	1610	1610	1610	1610	2220	2220	2220	2220	2220	3355	3355	3355	4355	5350	5350	5350	6350	6350
WIDTH		mm	860	860	860	860	1100	1100	1100	1100	1100	1105*	1105*	1105*	1105**	1105	1105	1105	1105	1105
HEIGHT		mm	1540	1540	1540	1540	2100	2100	2100	2100	2100	2180	2180	2180	2180	2180	2180	2180	2180	2180
WEIGHT EMPTY		kg	375	390	410	500	740	765	770	785	890	1190	1260	1320	1815	2105	2240	2415	2720	2810
WEIGHT OPERATIVE		kg	675	690	710	800	1160	1185	1190	1205	1310	1610	1695	1760	2275	2660	2800	2995	3320	3421

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Updated on 09/01/2018

Data referred to:
(1) Inlet/Outlet water temperature = +12/+7 °C - Condenser air temperature = +35°C; fouling factor = 0.000043 m²K/W
(2) 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) With option XV (expansion vessel kit)
(4) Data referred to standard configuration WP (with pump P3)

(5) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers

* Note: with double pump P5 (DPH option) the chiller width is 1305mm
** Note: with double pump (DP and DPH option) the chiller width is 1305mm