

Water cooled chillers ENW series, scroll compressors, coaxial evaporator, plate condenser

Process Cooling Application	Model	003	004	005	008	010	012	016	018	022	030	038	045	055
NOMINAL COOLING CAPACITY (1)	kW	3,8	4,5	5,7	8,6	9,8	13,0	14,3	19,7	22,0	29,9	37,6	44,2	57,4
NOMINAL COOLING CAPACITY (1)	Frig/h	3251	3836	4936	7413	8445	11180	12298	16942	18920	25723	32345	37978	49364
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)	kW	1,0	1,1	1,4	2,6	2,7	3,4	3,5	4,8	5,4	6,5	8,5	10,0	12,9
EER		3,98	4,02	4,04	3,32	3,66	3,80	4,14	4,08	4,10	4,60	4,45	4,42	4,45
COMPRESSORS	nr.	1	1	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	1	1
PARTITION STEP	nr.	1	1	1	1	1	1	1	1	1	1	1	1	1
REFRIGERANT		R410A												
HYDRAULIC SECTION														
NOMINAL WATER FLOW	m3/h	0,7	0,8	1,0	1,5	1,7	2,2	2,5	3,4	3,8	5,1	6,5	7,6	9,9
WATER FLOW RANGE	m3/h	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	4 ÷ 6	6 ÷ 12	6 ÷ 12	6 ÷ 12
NUMBER AND TYPE OF EVAPORATOR		no.1 self-cleaning coaxial evaporator												
EVAPORATOR PRESSURE DROP	kPa	27	28	28	29	22	31	23	34	29	31	35	37	56
AVAILABLE PRESSURE	mca	19,6	19,2	19,0	19,4	27,1	26,9	27,2	26,3	25,3	22,5	24,9	24,2	22,0
MAXIMUM PUMP ABSORBED POWER	P3	kW	0,37	0,37	0,37	0,88	0,98	0,98	0,98	1,28	1,28	2,20	2,20	2,20
MAXIMUM PUMP ABSORBED CURRENT		A	3,20	3,20	3,20	1,65	1,78	1,78	1,78	2,37	2,37	4,24	4,24	4,24
AVAILABLE PRESSURE	P5	mca	45,4	46,4	45,5	43,3	62,7	59,9	57,6	49,5	58,0	43,3	62,8	58,9
MAXIMUM PUMP ABSORBED POWER		kW	0,74	0,74	0,74	1,10	1,10	1,10	1,10	1,47	1,47	2,94	2,94	2,94
MAXIMUM PUMP ABSORBED CURRENT	A	3,22	3,22	3,22	2,17	2,17	2,17	2,17	2,86	2,86	5,83	5,83	5,83	5,83
HYDRULIC CONNECTIONS	BSP	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
TANK VOLUME	dm3	40	40	40	50	50	50	50	110	110	270	270	270	270
CONDENSING SECTION														
NUMBER AND TYPE OF CONDENSERS		nr.1 stainless steel brazed plate condenser												
CONDENSER NOMINAL WATER FLOW RATE (1)	m3/h	0,81	0,96	1,23	1,93	2,15	2,82	3,05	4,22	4,71	6,3	7,9	9,3	12,1
CONDENSER PRESSURE DROP EACH CONDENSER (1) (4)	kPa	45	48	53	80	100	100	119	106	123	75	80	74	79
HYDRAULIC CONNECTIONS	BSP	3/4"	3/4"	3/4"	1"	1"	1"	1"	1" 1/4	1" 1/4	1 1/2"	1 1/2"	1 1/2"	1 1/2"
TOTAL ELECTRIC DATA														
IP54 protection rating, chillers suitable for outdoor installation														
NOMINAL ABSORBED POWER (3)	kW	1,3	1,5	1,8	3,5	3,7	4,4	4,4	5,8	6,6	7,8	10,7	12,2	15,1
MAXIMUM ABSORBED CURRENT(F.L.A.) (3)	A	6,3	7,4	9,2	8,2	8,6	10,2	10,8	15,0	17,2	21,6	28,7	34,2	40,7
MAXIMUM PEAK CURRENT (L.R.A.) (3)	A	24,4	37,4	43,4	48,9	49,0	70,0	70,0	74,0	103,3	120,4	144,2	178,2	229,2
ELECTRIC FEED	V/Ph/Hz	230/1/50			400/3/50/N					400/3/50				
NOISE DATA														
SOUND PRESSURE FOR STANDARD CONFIGURATION(2) (3)	dB(A)	50,0	50,0	50,0	51,4	51,4	51,0	51,0	51,0	52,0	51,5	52,1	52,5	55,5
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (2) (3)	dB(A)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	50,5	50,8	51,0	52,5
DIMENSIONS AND WEIGHT														
LENGTH	mm	600	600	600	820	820	820	820	1010	1010	1610	1610	1610	1610
WIDTH	mm	655	655	655	615	615	615	615	720	720	860	860	860	860
HEIGHT	mm	1035	1035	1035	1240	1240	1240	1240	1420	1420	1380	1380	1380	1380
WEIGHT EMPTY	kg	85	90	102	175	180	185	190	230	260	390	400	430	450

The manufacturer reserves the right to modify specifications without notice

Updated on 11/03/2016

Data referred to:

(1) Evaporator Inlet/Outlet water temperature = +12/+7 °C; Condenser Inlet/Outlet water temperature = +30/+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) Data referred to standard configuration WP (with pump P3)

(4) Condenser included: 2 ways mechanical pressostatic condenser control valve for models 003-016; 2 ways electronic pressostatic condenser control valve for models 018-055

Water cooled chillers ENW series, scroll compressors, coaxial/shell and tube evaporator, shell and tube condenser/s

Process Cooling Application	Model	061	070	075	090	100	130	160	185	200	230	280	340	370	430	480	
NOMINAL COOLING CAPACITY (1)	kW	60	68	75	88	102	120	150	177	203	230	288	330	372	424	476	
NOMINAL COOLING CAPACITY (1)	Frig/h	51428	58050	64672	75938	87376	102856	129344	151962	174709	197456	247766	283972	320178	364898	409618	
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)	kW	13,0	15,0	16,9	20,0	22,9	26,0	33,9	39,9	45,8	51,7	65,3	74,7	84,0	95,4	106,8	
EER		4,60	4,50	4,45	4,42	4,44	4,60	4,44	4,43	4,43	4,44	4,41	4,42	4,43	4,45	4,46	
COMPRESSORS	nr.	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4	
REFRIGERATING CIRCUITS	nr.	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	
PARTITION STEP	nr.	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	2/2	
REFRIGERANT																	
HYDRAULIC SECTION																	
NOMINAL WATER FLOW	m3/h	10,3	11,6	12,9	15,2	17,5	20,6	25,9	30,4	34,9	39,5	49,6	56,8	64,0	73,0	81,9	
WATER FLOW RANGE	m3/h	8 ÷ 18	10 ÷ 20	10 ÷ 20	10 ÷ 20	10 ÷ 20	14 ÷ 27	15,4 ÷ 31	17,5 ÷ 35	28 ÷ 40	25 ÷ 46	31 ÷ 58	38 ÷ 70	45 ÷ 80	52 ÷ 100	54 ÷ 100	
NUMBER AND TYPE OF EVAPORATOR		no.1 self-cleaning coaxial evaporator					no.1 shell and tube evaporator with double circuit										
EVAPORATOR PRESSURE DROP	kPa	22	20	22	28	40	58	54	60	48	57	61	51	57	65	69	
AVAILABLE PRESSURE	mca	22,5	22,6	20,7	21,6	20,0	21,1	21,1	20,1	2,7	26,3	24,9	24,7	23,7	22,0	21,1	
MAXIMUM PUMP ABSORBED POWER	P3 kW	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	10,20	
MAXIMUM PUMP ABSORBED CURRENT	A	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	17,4	
AVAILABLE PRESSURE	mca	47,9	48,0	47,9	46,9	45,3	45,4	45,2	44,2	4,9	48,3	47,4	47,5	45,7	41,8	40,8	
MAXIMUM PUMP ABSORBED POWER	P5 kW	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	19,94	
MAXIMUM PUMP ABSORBED CURRENT	A	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	32,7	
HYDRAULIC CONNECTIONS	BSP/DN	2"	2"	2"	2"	2"	DN65	DN65	DN65	DN125	DN125	DN125	DN125	DN150	DN150	DN150	
TANK VOLUME	dm3	410	410	410	410	410	390	390	390	390	390	390	390	500	500	500	
CONDENSING SECTION																	
NUMBER AND TYPE OF CONDENSERS		no.1 shell and tube condenser					no.2 shell and tube condensers (one per circuit)										
NOMINAL WATER FLOW RATE EACH CONDENSER (1)	m3/h	12,5	14,2	15,8	18,6	21,4	12,5	15,8	18,6	21,4	24,2	30,4	34,8	39,2	44,7	50,1	
CONDENSER PRESSURE DROP EACH CONDENSER (1) (4)	kPa	90	93	96	101	110	90	96	101	108	87	91	95	104	110	116	
HYDRAULIC CONNECTIONS	BSP/DN	2"	2"	2"	2"	2"	2 x 2"	2 x 2"	2 x 2"	2 x 2"	2xDN65	2xDN65	2xDN65	2xDN80	2xDN80	2xDN80	
TOTAL ELECTRIC DATA																	
		IP54 protection rating, chillers suitable for outdoor installation															
NOMINAL ABSORBED POWER (3)	kW	15,5	17,5	19,4	22,5	25,4	30,6	38,5	44,5	54,1	60,0	73,6	83,0	94,2	105,6	117,0	
MAXIMUM ABSORBED CURRENT(F.L.A.) (3)	A	43,0	48,3	53,5	64,6	71,0	84,7	105,6	127,8	147,0	159,9	192,5	221,9	254,6	283,6	312,6	
MAXIMUM PEAK CURRENT (L.R.A.) (3)	A	141,8	163,8	169,0	208,6	259,6	183,4	221,2	271,8	335,5	348,4	419,9	472,6	505,3	617,8	646,8	
ELECTRIC FEED	V/Ph/Hz																
NOISE DATA																	
SOUND PRESSURE FOR STANDARD CONFIGURATION(2) (3)	dB(A)	52,5	53,1	53,5	54,1	56,3	54,1	55,5	56,2	59,0	60,5	63,3	63,3	63,3	65,7	67,2	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (2) (3)	dB(A)	51,0	51,2	51,5	51,8	53,1	51,8	52,5	53,0	55,3	56,5	58,8	58,8	58,8	61,2	62,5	
DIMENSIONS AND WEIGHT																	
LENGTH	mm	2220	2220	2220	2220	2220	3355	3355	3355	4355	4355	4355	4355	5350	5350	5350	
WIDTH	mm	1100	1100	1100	1100	1100	1105	1105	1105	1305	1305	1305	1305	1305	1305	1305	
HEIGHT	mm	1900	1900	1900	1900	1900	1985	1985	1985	1985	1985	1985	1985	1985	1985	1985	
WEIGHT EMPTY	kg	810	820	830	855	930	1550	1590	1650	1930	2210	2270	2730	3065	3215	3365	

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(1) Evaporator Inlet/Outlet water temperature = +12/+7 °C; Condenser Inlet/Outlet water temperature = +30/+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) Data referred to standard configuration WP (with pump P3)

(4) Condenser included 2 ways electronic pressostatic condenser control valve. The optional 3 ways electronic pressostatic condenser control valve is available from model ENW.130 on request