

Air-cooled liquid chillers ENR series, rotary / scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / coaxial / shell and tube evaporator, condenser coil with copper tubes and aluminium finned fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard.

Type of available evaporators:

CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage tank

ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)

B-ES = stainless steel brazed plate evaporator

TECHNICAL DATA

PERFORMANCES		Model	001	002	003	004	005	006	008	010
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	1,6	2,1	3,6	4,2	5,5	6,7	7,9	9,3
TOTAL NOMINAL ABSORBED POWER		kW	0,9	1,2	1,7	1,9	2,3	2,9	3,7	4,6
EER		kW/kW	4,71	3,28	3,16	3,13	3,16	2,91	2,80	2,57
SEPR (HT) (3)		-	4,69	4,61	4,65	4,90	4,77	4,93	4,57	4,63
NOMINAL WATER FLOW		m3/h	0,3	0,4	0,6	0,7	0,9	1,2	1,4	1,6
MECHANICAL MODE PRESSURE DROPS (4)		kPa	20	22	22	23	23	37	26	25
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
KIND OF COMPRESSOR	-	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	SCROLL	SCROLL
KIND OF EVAPORATOR	-	B-ES	B-ES	CX	CX	CX	CX	CX	CX	CX
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m3/h	0,3÷2,0	0,3÷2,0	0,6÷2,2	0,6÷2,2	0,8÷2,2	0,8÷2,2	1,2÷3,0	1,4÷3,0	1,4÷3,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,56	0,56	0,56	0,56	0,56	0,56	0,88	0,98
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	3,46	3,46	3,46	3,46	3,46	3,46	1,65	1,78
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	NA	NA	0,74	0,74	0,74	0,74	1,10	1,10
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	NA	NA	3,22	3,22	3,22	3,22	2,17	2,17
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	1"	1"	
TANK VOLUME (5)	dm³	10	10	40	40	40	40	50	50	
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)	liters	NA	NA	NA	NA	NA	NA	5	5	
FAN SECTION (AXIAL)										
FANS	nr.	1	1	1	1	1	1	1	1	1
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF
MAXIMUM FANS ABSORBED POWER	AC	kW	0,07	0,11	0,09	0,09	0,10	0,10	0,25	0,25
MAXIMUM FANS ABSORBED CURRENT		A	0,40	0,80	0,40	0,40	0,50	0,50	1,10	1,10
TOTAL AIR FLOW	m3/h	700	650	1300	1200	1500	1500	4100	4100	
TOTAL ELECTRIC DATA										
ELECTRICAL FEED	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50/N	400/3/50/N	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	6,1	7,5	9,6	10,5	12,5	16,7	10,1	10,5	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	16,0	21,0	27,0	40,0	46,0	58,0	50,0	50,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	NA	NA	NA	NA	NA	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	51,0	51,0	51,0	51,0	51,5	51,5	51,4	51,4	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	NA	NA	NA	NA	NA	NA	NA	NA	
DIMENSIONS AND WEIGHT										
LENGTH	mm	445	445	600	600	600	600	820	820	
WIDTH	mm	440	440	655	655	655	655	615	615	
HEIGHT	mm	740	740	1035	1035	1035	1035	1415	1415	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	55	55	85	90	95	100	160	165	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	65	65	125	130	135	140	210	215	

The manufacturer reserves the right to modify specifications without notice.

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(1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water

(2) Available pressure can be calculated from Hitema Online Selection Software

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

(4) Pressure drops taken in account: evaporator, valves, piping

(5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change

(6) Data referred to standard chiller configuration WP (single pump P3) and AC fans

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

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

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TECHNICAL DATA

PERFORMANCES		Model	012	016	018	022	025	030	038	045
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	12,2	13,5	18,0	22,0	25,0	31,0	37,0	45,0
TOTAL NOMINAL ABSORBED POWER		kW	5,4	6,7	7,5	8,8	9,9	11,1	15,3	16,0
EER		kW/kW	2,76	2,36	2,76	2,93	2,90	3,15	2,82	3,25
SEPR (HT) (3)		-	4,72	4,51	4,66	4,88	4,91	5,11	4,59	5,28
NOMINAL WATER FLOW		m3/h	2,1	2,3	3,1	3,8	4,3	5,3	6,4	7,7
MECHANICAL MODE PRESSURE DROPS (4)		kPa	27	28	28	31	42	34	34	39
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
KIND OF EVAPORATOR	-	CX	CX	CX	CX	CX	CX	CX	CX	CX
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m3/h	1,2÷2,9	1,2÷2,9	2,5÷5,0	3,0÷6,0	3,0÷6,0	4,0÷6,0	5,0÷12,0	6,0÷12,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,98	0,98	0,98	1,28	1,28	1,28	2,20	2,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	1,78	1,78	1,78	2,37	2,37	2,37	4,24	4,24
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	1,10	1,10	1,47	1,47	1,47	1,47	2,94	2,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,17	2,17	2,86	2,86	2,86	2,32	5,83	5,83
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1"	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	
TANK VOLUME (5)	dm³	50	50	110	110	110	270	270	270	
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)	liters	5	5	8	8	8	12	12	12	
FAN SECTION (AXIAL)										
FANS	nr.	1	1	1	1	1	2	2	2	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	
MAXIMUM FANS ABSORBED POWER	AC	kW	0,49	0,49	0,68	0,81	0,81	1,44	1,62	1,44
MAXIMUM FANS ABSORBED CURRENT		A	2,40	2,40	3,00	1,50	1,50	2,82	3,08	2,82
TOTAL AIR FLOW	m3/h	4750	4750	6500	6800	6800	16000	16400	15000	
TOTAL ELECTRIC DATA										
ELECTRICAL FEED	V/ph/Hz	400/3/50/N	400/3/50/N	400/3/50/N	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	13,0	13,9	18,8	19,8	21,1	24,4	31,8	37,1	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	71,0	71,0	75,0	104,0	127,4	120,4	144,2	178,2	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	NA	NA	NA	NA	NA	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	52,2	52,2	53,3	55,8	55,4	55,3	57,5	55,8	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	NA	NA	NA	NA	NA	54,3	57,2	54,5	
DIMENSIONS AND WEIGHT										
LENGTH	mm	820	820	1010	1010	1010	1610	1610	1610	
WIDTH	mm	615	615	720	720	720	860	860	860	
HEIGHT	mm	1415	1415	1585	1585	1585	1550	1550	1550	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	170	175	210	250	250	375	390	410	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	220	225	340	380	380	675	690	710	

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TECHNICAL DATA

PERFORMANCES		Model	055	061	070	075	090	100	130	160
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	55,0	61,0	67,0	72,0	88,0	100,0	115,0	150,0
TOTAL NOMINAL ABSORBED POWER		kW	21,1	21,4	25,7	28,8	31,6	35,5	44,0	56,0
EER		kW/kW	2,91	3,23	2,89	2,74	3,03	3,03	2,92	2,92
SEPR (HT) (3)		-	4,80	5,01	4,78	4,75	4,91	5,01	5,02	4,59
NOMINAL WATER FLOW		m3/h	9,4	10,5	11,5	12,4	15,1	17,2	19,8	25,8
MECHANICAL MODE PRESSURE DROPS (4)		kPa	51	23	20	20	28	39	54	54
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4	4/2/4	
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR	-	CX	CX	CX	CX	CX	CX	ST	ST	
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m3/h	6,0÷12,0	8,0÷18,0	10,0÷20,0	10,0÷20,0	10,0÷20,0	10,0÷20,0	14,0÷27,0	15,4÷30,8	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,20	2,53	2,53	2,53	2,53	2,53	4,56	4,56
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,24	4,56	4,56	4,56	4,56	4,56	7,75	7,75
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	2,94	6,12	6,12	6,12	6,12	6,12	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	5,83	10,40	10,40	10,40	10,40	10,40	17,40	17,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1 1/2"	2"	2"	2"	2"	2"	DN65	DN65	
TANK VOLUME (5)	dm³	270	410	410	410	410	410	390	390	
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)	liters	12	19	19	19	19	19	19	19	
FAN SECTION (AXIAL)										
FANS	nr.	2	2	2	2	2	2	2	3	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	
MAXIMUM FANS ABSORBED POWER	AC	kW	1,62	2,50	3,88	3,88	3,88	3,88	3,88	5,82
MAXIMUM FANS ABSORBED CURRENT		A	3,08	4,96	7,80	7,80	7,80	7,80	7,80	11,70
TOTAL AIR FLOW	m3/h	15600	25000	36000	36000	34000	32000	40000	57000	
TOTAL ELECTRIC DATA										
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	43,8	48,0	56,1	61,4	72,4	78,8	92,4	117,5	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	229,2	146,7	171,6	176,9	216,4	267,4	191,2	233,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	123,1	143,6	148,9	181,6	222,4	167,6	205,0	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	58,8	57,6	59,2	59,3	59,5	60,3	59,5	61,1	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	57,6	57,2	58,8	58,9	58,9	59,2	58,9	60,5	
DIMENSIONS AND WEIGHT										
LENGTH	mm	1610	2220	2220	2220	2220	2220	3355	3355	
WIDTH	mm	860	1100	1100	1100	1100	1100	1105*	1105*	
HEIGHT	mm	1550	2120	2120	2120	2120	2120	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	500	740	765	770	785	890	1190	1260	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	800	1160	1185	1190	1205	1310	1610	1695	

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TECHNICAL DATA

PERFORMANCES		Model	185	200	230	280	340	370	430
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	170,0	204,3	227,0	277,0	319,0	365,0	410,0
TOTAL NOMINAL ABSORBED POWER		kW	62,8	71,3	84,8	103,2	115,8	129,8	146,8
EER		kW/kW	2,92	3,24	2,97	2,92	2,97	3,05	3,00
SEPR (HT) (3)		-	4,94	5,45	4,87	4,84	4,94	5,14	5,07
NOMINAL WATER FLOW		m3/h	29,2	35,1	39,0	47,6	54,8	62,7	70,4
MECHANICAL MODE PRESSURE DROPS (4)		kPa	55	38	56	56	48	55	61
FRIGORIFIC SECTION									
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST
HYDRAULIC SECTION									
WATER FLOW RANGE (6)	m3/h	17,5÷35,0	25,0÷46,0	25,0÷46,0	31,0÷58,0	38,0÷70,0	45,0÷80,0	52,0÷100,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	4,56	8,30	8,30	8,30	8,30	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	7,75	14,10	14,10	14,10	14,10	17,40	17,40
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	10,20	16,22	16,22	16,22	16,22	16,22	19,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	17,40	26,60	26,60	26,60	26,60	26,60	32,70
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	DN65	DN80	DN80	DN100	DN100	DN100	DN125	
TANK VOLUME (5)	dm³	390	390	500	500	500	500	500	
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)	liters	19	19	19	19	19	19	19	
FAN SECTION (AXIAL)									
FANS	nr.	3	4	5	5	5	6	6	
FAN SPEED REGULATION	-	ON/OFF	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	
MAXIMUM FANS ABSORBED POWER	AC	kW	5,82	7,76	9,70	9,70	9,70	11,64	11,64
MAXIMUM FANS ABSORBED CURRENT		A	11,70	15,60	19,50	19,50	19,50	23,40	23,40
TOTAL AIR FLOW	m3/h	54000	68800	91000	90000	85000	102000	96000	
TOTAL ELECTRIC DATA									
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	139,5	162,6	179,4	212,0	241,4	278,0	307,0	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	283,5	351,1	367,9	439,4	492,1	528,7	641,2	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	248,7	306,1	322,9	385,0	430,1	466,7	559,6	
NOISE DATA									
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	61,4	63,1	64,3	65,7	65,7	66,1	67,5	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	60,6	62,0	63,1	63,7	63,7	64,4	65,1	
DIMENSIONS AND WEIGHT									
LENGTH	mm	3355	4355	5350	5350	5350	6350	6350	
WIDTH	mm	1105*	1105**	1105	1105	1105	1105	1105	
HEIGHT	mm	2205	2205	2205	2205	2205	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	1320	1815	2105	2240	2415	2745	2810	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	1760	2275	2660	2800	2995	3345	3421	

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Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm