

ENR SERIES

Air-Cooled liquid Chillers

AC axial fans

IP54 protection rating

Suitable for OUTDOOR installation



SERIES: ENR-ENRF-CSE	DATE: 20.02.2020
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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 fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.

Type of available evaporators:	Type of available expansion elements
CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger installed inside the water storage tank	CP = Capillary tube
ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)	VTs = Thermostatic expansion valve
B-ES = stainless steel brazed plate evaporator	ETS = Electronic expansion valve (available as option)

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	3,9	4,7	5,6	6,3	7,9	9,3
TOTAL NOMINAL ABSORBED POWER		kW	1,1	1,4	1,8	2,1	2,4	2,8	3,8	4,6
EER		kW/kW	2,81	2,59	3,21	3,16	3,08	2,87	2,77	2,55
SEPR (HT) (3)		-	5,01	5,07	5,05	5,03	5,03	5,04	5,05	5,00
NOMINAL WATER FLOW		m3/h	0,3	0,4	0,7	0,8	1,0	1,1	1,4	1,6
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	20	22	20	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
KIND OF COMPRESSOR		-	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	SCROLL	SCROLL
KIND OF EVAPORATOR		-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	CX	CX
KIND OF EXPANSION ELEMENT		-	CP	CP	CP	CP	CP	CP	VTS	VTS
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m3/h	0,25÷2,0	0,30÷2,0	0,60÷2,2	0,60÷2,2	0,80÷2,2	0,80÷2,2	1,20÷3,0	1,40÷3,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)		P3 (2)	kW	0,56	0,56	0,56	0,56	0,56	0,98	0,98
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)			A	3,46	3,46	3,46	3,46	3,46	1,78	1,78
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)		P5 (2)	kW	NA	NA	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
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1"	1"
TANK VOLUME (5) (8)		dm^3	10	10	25	25	25	25	50	50
EXPANSION VESSEL VOLUME (OPTION XV) (9)		liters	NA	NA	NA	NA	NA	NA	5	5
FAN SECTION (AXIAL)										
FANS		nr.	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
MAXIMUM FANS ABSORBED POWER		AC	kW	0,07	0,11	0,10	0,10	0,10	0,25	0,25
MAXIMUM FANS ABSORBED CURRENT			A	0,40	0,80	0,50	0,50	0,50	1,10	1,10
TOTAL AIR FLOW			m3/h	700	650	1800	1800	1580	1580	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	10,8	12,4	14,4	16,7	10,2	10,5
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	16,0	21,0	27,5	39,5	46,5	57,5	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)	50,0	50,0	50,3	51,6	53,0	54,7	51,4	51,4
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LN.J) (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	725	725	725	725	615	615
HEIGHT		mm	806	806	1060	1060	1060	1060	1415	1415
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)		kg	55	55	90	95	95	100	160	165
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)		kg	65	65	115	120	120	125	210	215

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021
Revision: 04-2021

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 in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (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
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* 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

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 fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.

Type of available evaporators: CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger 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	Type of available expansion elements CP = Capillary tube VTS = Thermostatic expansion valve ETS = Electronic expansion valve (available as option)
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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	2,78	2,37	2,78	2,93	2,90	3,15	2,82	3,25
SEPR (HT) (3)		-	5,03	5,05	5,00	5,02	5,00	5,05	5,03	5,07
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) (5) (6)		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
KIND OF COMPRESSOR		-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
KIND OF EVAPORATOR		-	CX	CX	CX	CX	CX	CX	CX	CX
KIND OF EXPANSION ELEMENT		-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m3/h	1,20÷2,9	1,20÷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) (8)		dm³	50	50	110	110	110	270	270	270
EXPANSION VESSEL VOLUME (OPTION XV) (9)		liters	5	5	8	8	8	8	8	8
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	13,3	13,9	18,8	19,8	21,1	25,3	31,8	37,1
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	71,0	71,0	75,0	104,0	127,4	141,4	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 LN.J) (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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- (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
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough
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Type of available expansion elements
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 VTS = Thermostatic expansion valve
 ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	055	061	075	090	100	130	160	185
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	55,0	63,0	72,0	88,0	100,0	115,0	150,0	170,0
TOTAL NOMINAL ABSORBED POWER		kW	21,1	22,6	28,8	31,6	35,5	44,0	56,0	62,8
EER		kW/kW	2,91	3,14	2,74	3,03	3,03	2,92	2,92	2,92
SEPR (HT) (3)		-	5,03	5,04	5,05	5,03	5,06	5,07	5,02	5,00
NOMINAL WATER FLOW		m3/h	9,4	10,8	12,4	15,1	17,2	19,8	25,8	29,2
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	51	25	20	28	39	54	54	55
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4	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	ST	ST	ST	
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m3/h	6÷12	8÷18	10÷20	10÷20	10÷20	14÷27	15÷31	18÷35
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,20	2,53	2,53	2,53	2,53	4,56	4,56	4,56
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,24	4,56	4,56	4,56	4,56	7,75	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	10,20	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	5,83	10,40	10,40	10,40	10,40	17,40	17,40	17,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	1 1/2"	2"	2"	2"	2"	DN65	DN65	DN65
TANK VOLUME (5) (8)		dm³	270	410	410	410	410	390	390	390
EXPANSION VESSEL VOLUME (OPTION XV) (9)		liters	8	12	12	12	12	19	19	19
FAN SECTION (AXIAL)										
FANS	nr.	2	2	2	2	2	2	3	3	
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	1,62	3,88	3,88	3,88	3,88	3,88	5,82	5,82
MAXIMUM FANS ABSORBED CURRENT		A	3,08	7,80	7,80	7,80	7,80	7,80	11,70	11,70
TOTAL AIR FLOW		m3/h	15600	25000	36000	34000	32000	40000	57000	54000
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	52,6	61,4	72,4	78,8	96,1	117,5	139,5
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	229,2	171,5	176,9	216,4	267,4	214,9	233,0	283,5
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	NA	143,7	148,9	181,6	222,4	187,1	205,0	248,7
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	58,8	58,9	59,3	59,5	60,3	59,2	61,1	61,4
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)		dB(A)	57,6	58,7	58,9	58,9	59,2	58,8	60,5	60,6
DIMENSIONS AND WEIGHT										
LENGTH		mm	1610	2220	2220	2220	2220	3355	3355	3355
WIDTH		mm	860	1100	1100	1100	1100	1105*	1105*	1105*
HEIGHT		mm	1550	2120	2120	2120	2120	2205	2205	2205
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)		kg	500	740	770	785	890	1190	1260	1320
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)		kg	800	1160	1190	1205	1310	1610	1695	1760

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B-ES = stainless steel brazed plate evaporator	ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	200	230	280	340	370	430	
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	204,3	227,0	277,0	319,0	365,0	410,0	
TOTAL NOMINAL ABSORBED POWER		kW	71,3	84,8	103,2	115,8	129,8	146,8	
EER		kW/kW	3,24	2,97	2,92	2,97	3,05	3,00	
SEPR (HT) (3)		-	5,00	5,02	5,03	5,07	5,07	5,51	
NOMINAL WATER FLOW		m3/h	35,1	39,0	47,6	54,8	62,7	70,4	
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	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	
KIND OF COMPRESSOR		-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR		-	ST	ST	ST	ST	ST	ST	
KIND OF EXPANSION ELEMENT		-	VTS	VTS	VTS	VTS	VTS	VTS	
HYDRAULIC SECTION									
WATER FLOW RANGE (6)		m3/h	25÷46	25÷46	31÷58	38÷70	45÷80	52÷100	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	8,30	8,30	8,30	8,30	10,20	10,20	
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	14,10	14,10	14,10	14,10	17,40	17,40	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,22	16,22	16,22	16,22	16,22	19,94	
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	26,60	26,60	26,60	26,60	32,70	
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	DN80	DN80	DN100	DN100	DN100	DN125	
TANK VOLUME (5) (8)		dm³	390	500	500	500	500	500	
EXPANSION VESSEL VOLUME (OPTION XV) (9)		liters	19	19	19	19	19	19	
FAN SECTION (AXIAL)									
FANS		nr.	4	5	5	5	6	6	
FAN SPEED REGULATION		-	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	
MAXIMUM FANS ABSORBED POWER	AC	kW	7,76	9,70	9,70	9,70	11,64	11,64	
MAXIMUM FANS ABSORBED CURRENT		A	15,60	19,50	19,50	19,50	23,40	23,40	
TOTAL AIR FLOW		m3/h	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	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	162,6	179,4	212,0	241,4	278,0	307,0	
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	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	306,1	322,9	385,0	430,1	466,7	559,6	
NOISE DATA									
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	63,1	64,3	65,7	65,7	66,1	67,5	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LN.J) (6) (7)		dB(A)	62,0	63,1	63,7	63,7	64,4	65,1	
DIMENSIONS AND WEIGHT									
LENGTH		mm	4355	5350	5350	5350	6350	6350	
WIDTH		mm	1105**	1105	1105	1105	1105	1105	
HEIGHT		mm	2205	2205	2205	2205	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)		kg	1815	2105	2240	2415	2745	2810	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)		kg	2275	2660	2800	2995	3345	3420	

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Last update: 22/07/2021
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
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- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (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
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* 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

Air-cooled liquid chillers ENR series, scroll compressors, **R513A refrigerant, brazed plate / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.**

Type of available evaporators:

B-ES = stainless steel brazed plate evaporator

Type of available expansion elements

VTS = Thermostatic expansion valve

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	010	016	022	030	045	061	075	090
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	6,5	10,0	13,5	18,7	28,0	37,0	46,0	55,0
TOTAL NOMINAL ABSORBED POWER		kW	3,0	4,8	5,9	8,2	11,0	17,3	20,5	23,3
EER		kW/kW	2,67	2,64	2,75	2,72	2,89	2,46	2,51	2,65
SEPR (HT) (3)		-	5,00	5,05	5,02	5,05	5,07	5,04	5,05	5,03
NOMINAL WATER FLOW		m3/h	1,1	1,7	2,3	3,2	4,8	6,4	7,9	9,4
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	29	31	27	20	21	25	20	25
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	2/1/2	2/1/2	2/1/2	
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m3/h	0,80÷2,2	1,20÷2,9	2,5÷5,0	3,0÷6,0	4,0÷6,0	6÷12	6÷12	8÷18
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,56	0,98	0,98	1,28	1,28	2,20	2,20	2,53
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	3,46	1,78	1,78	2,37	2,37	4,24	4,24	4,56
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	0,74	1,10	1,10	1,47	1,47	2,94	2,94	6,12
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	3,22	2,17	2,17	2,32	2,32	5,83	5,83	10,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	1/2"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"
TANK VOLUME (5) (8)		dm³	50	50	110	270	270	410	410	410
EXPANSION VESSEL VOLUME (OPTION XV) (9)		liters	5	5	8	8	8	12	12	12
FAN SECTION (AXIAL)										
FANS	nr.	1	1	1	2	2	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	0,25	0,49	0,81	1,44	1,44	3,88	3,88	3,88
MAXIMUM FANS ABSORBED CURRENT		A	1,10	2,40	1,50	2,82	2,82	7,80	7,80	7,80
TOTAL AIR FLOW		m3/h	4100	4750	6800	16000	15000	25000	36000	34000
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50/N	400/3/50/N	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	11,1	15,3	14,5	24,5	37,1	50,7	64,5	76,1
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	53,5	75,8	103,8	120,4	176,4	141,6	170,5	210,4
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	NA	NA	NA	99,6	144,4	125,8	150,3	183,4
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	48,0	48,8	50,5	54,8	57,1	59,1	59,9	60,9
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LN.J) (6) (7)		dB(A)	NA	NA	NA	54,3	55,3	58,8	59,1	59,5
DIMENSIONS AND WEIGHT										
LENGTH		mm	820	820	1010	1610	1610	2220	2220	2220
WIDTH		mm	615	615	720	860	860	1100	1100	1100
HEIGHT		mm	1415	1415	1585	1550	1550	2120	2120	2120
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)		kg	165	175	250	375	410	740	770	785
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)		kg	215	225	380	675	710	1160	1190	1205

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Revision: 04-2021

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- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (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
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Air-cooled liquid chillers ENR series, scroll compressors, R513A refrigerant, brazed plate / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.

Type of available evaporators:

B-ES = stainless steel brazed plate evaporator

Type of available expansion elements

VTS = Thermostatic expansion valve

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	130	160	185
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	72,0	90,0	110,0
TOTAL NOMINAL ABSORBED POWER		kW	29,4	40,2	44,8
EER		kW/kW	2,68	2,53	2,73
SEPR (HT) (3)		-	5,07	5,02	5,00
NOMINAL WATER FLOW		m3/h	12,4	15,5	18,9
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	25	20	25
FRIGORIFIC SECTION					
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	4/2/4	4/2/4	4/2/4
KIND OF COMPRESSOR		-	SCROLL	SCROLL	SCROLL
KIND OF EVAPORATOR		-	B-ES	B-ES	B-ES
KIND OF EXPANSION ELEMENT		-	VTS	VTS	VTS
HYDRAULIC SECTION					
WATER FLOW RANGE (6)		m3/h	8÷18	14÷31	18÷35
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,53	4,56	4,56
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,56	7,75	7,75
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	17,40	17,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	2"	DN65	DN65
TANK VOLUME (5) (8)		dm³	390	390	390
EXPANSION VESSEL VOLUME (OPTION XV) (9)		liters	19	19	19
FAN SECTION (AXIAL)					
FANS		nr.	2	3	3
FAN SPEED REGULATION		-	ON/OFF	ON/OFF	ON/OFF
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	5,82	5,82
MAXIMUM FANS ABSORBED CURRENT		A	7,80	11,70	11,70
TOTAL AIR FLOW		m3/h	40000	57000	54000
TOTAL ELECTRIC DATA					
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	89,7	124,3	147,0
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	188,4	238,1	289,1
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	164,8	210,1	254,3
NOISE DATA					
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	59,5	61,9	63,1
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LN.J) (6) (7)		dB(A)	58,9	60,8	61,4
DIMENSIONS AND WEIGHT					
LENGTH		mm	3355	3355	3355
WIDTH		mm	1105*	1105*	1105*
HEIGHT		mm	2205	2205	2205
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)		kg	1190	1260	1320
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)		kg	1610	1695	1760

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