


اطلاعات فنی | TECHNICAL DATA

PERFORMANCES		Model	250	280	310	350	390	440	500	560
NOMINAL COOLING CAPACITY		kW	250,0	280,0	310,0	350,0	390,0	440,0	500,0	560,0
TOTAL NOMINAL ABSORBED POWER		kW	70,7	83,8	86,6	99,7	111,7	124,8	141,1	167,1
EER	W 12°C/7°C @ 35°C (1)	kW/kW	3,53	3,34	3,58	3,51	3,49	3,53	3,54	3,35
SEPR (HT) (3)		-	5,04	5,01	5,04	5,55	5,54	5,52	5,57	5,55
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	2,45	1,75	2,85	2,15	2,85	2,10	2,45	1,75
NOMINAL WATER FLOW		m3/h	43,0	48,1	53,3	60,1	67,0	75,6	85,9	96,2
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	47	58	58	53	53	61	49	48
FREE COOLING MODE PRESSURE DROPS (5)		kPa	120	143	136	144	129	139	129	142
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.	1/1/27+108%	1/1/25+100%	1/1/20+101%	1/1/20+100%	1/1/16+102%	1/1/16+100%	2/2/26+102%	2/2/25+100%	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	ST
ECONOMIZER		NO	NO	YES	NO	NO	YES	NO	NO	NO
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	plate	plate	plate	plate
HYDRAULIC SECTION										
WATER FLOW RANGE (7)		m3/h	32,0÷72,0	33,0÷82,0	49,0÷90,0	49,0÷108,0	57,0÷113,0	57,0÷113,0	68,0÷137,0	81,0÷162,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	10,20	10,20	10,20	16,22	16,22	16,22	16,22	24,85
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	17,40	17,40	17,40	26,60	26,60	26,60	26,60	42,20
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	19,94	19,94	19,94	19,94	31,88	31,88	31,88	39,09
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32,70	32,70	32,70	32,70	53,50	53,50	53,50	65,60
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (9)		DN	DN100	DN100	DN125	DN125	DN125	DN125	DN150	DN150
FAN SECTION (AXIAL)										
FANS	nr.	6	6	8	8	10	10	12	12	
MAXIMUM FANS ABSORBED POWER	EC	kW	11,04	11,04	14,72	14,72	18,40	18,40	22,08	22,08
MAXIMUM FANS ABSORBED CURRENT		A	22,98	22,98	30,64	30,64	38,30	38,30	45,96	45,96
TOTAL AIR FLOW		m3/h	123600	123600	164800	164800	206000	206000	247200	247200
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)	A	158,0	158,0	165,6	240,6	248,3	248,3	326,0	316,0	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)	dB(A)	64,4	64,4	65,0	65,6	66,0	66,0	67,5	67,5	
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)	dB(A)	62,3	62,3	63,2	63,5	64,2	64,2	65,3	65,3	
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)	dB(A)	60,4	60,4	61,1	61,6	62,1	62,1	63,4	63,4	
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)	dB(A)	59,3	59,3	60,2	60,5	61,2	61,2	62,3	62,3	
DIMENSIONS AND WEIGHT										
LENGTH	mm	4600	4600	5900	5900	7200	7200	8500	8500	
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT	mm	2450	2450	2450	2450	2450	2450	2450	2450	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)	kg	3168	3208	4044	4160	4858	4923	5200	5250	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)	kg	3476	3523	4448	4577	5369	5445	5912	5983	

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 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, piping
 (5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
 (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
 (7) Data referred to standard chiller configuration NP (no pump) and EC fans
 (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
 (9) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095÷160

** pump P5 includes the soft start (SF) option


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PERFORMANCES		Model	620	700	780	850	920
NOMINAL COOLING CAPACITY		kW	620,0	700,0	780,0	850,0	920,0
TOTAL NOMINAL ABSORBED POWER		kW	178,5	203,0	227,9	241,7	273,1
EER		kW/kW	3,47	3,45	3,42	3,52	3,37
SEPR (HT) (3)		-	5,57	5,56	5,51	5,57	5,55
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	2,10	2,15	1,45	1,65	1,10
NOMINAL WATER FLOW		m3/h	106,5	120,3	134,0	146,0	158,1
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	55	64	68	65	68
FREE COOLING MODE PRESSURE DROPS (5)		kPa	139	153	172	155	168
FRIGORIFIC SECTION							
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL		nr.	2/2/20÷102%	2/2/20÷102%	2/2/17÷106%	2/2/16÷100%	2/2/16÷100%
KIND OF EXPANSION ELEMENT		-	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR		-	ST	ST	ST	ST	ST
ECONOMIZER			YES	NO	NO	YES	YES
TYPE OF ECONOMIZER		type	plate	plate	plate	plate	plate
HYDRAULIC SECTION							
WATER FLOW RANGE (7)		m3/h	94,0÷188,0	102,0÷203,0	108,0÷210,0	117,0÷210,0	124,0÷227,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)		P3 (2)	kW	24,85	24,85	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)			A	42,20	42,20	53,50	53,50
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)		P5 (2)	kW	39,09	39,09	57.65*	57.65*
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)			A	65,60	65,60	93,50	93,50
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (9)		DN	DN150	DN150	DN200	DN200	DN200
FAN SECTION (AXIAL)							
FANS		nr.	14	16	16	18	18
MAXIMUM FANS ABSORBED POWER		EC	kW	25,76	29,44	29,44	33,12
MAXIMUM FANS ABSORBED CURRENT			A	53,62	61,28	61,28	68,94
TOTAL AIR FLOW			m3/h	288400	329600	329600	370800
TOTAL ELECTRIC DATA							
MAXIMUM ABSORBED CURRENT (F.L.A) (7)		A	323,6	481,3	481,3	488,9	488,9
NOISE DATA							
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)		dB(A)	67,8	68,6	68,6	68,8	68,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)		dB(A)	65,8	66,5	66,5	66,9	66,9
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)		dB(A)	63,8	64,6	64,6	64,9	64,9
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)		dB(A)	62,8	63,5	63,5	63,9	63,9
DIMENSIONS AND WEIGHT							
LENGTH		mm	9800	11100	11100	12790	12790
WIDTH		mm	2210	2210	2210	2210	2210
HEIGHT		mm	2450	2450	2450	2450	2450
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)		kg	5900	6550	6730	7450	7700
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)		kg	7010	7632	7661	8493	8862

Data referred to:

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