

اطلاعات فنی | TECHNICAL DATA

PERFORMANCES		Model	963/F12	973/F12	983/F14	993/F16	9103/F18	9113/F18	983/F24***	993/F24***
NOMINAL COOLING CAPACITY (1)	ECO.M2(3),	kW	904	1019	1180	1321	1438	1566	1794	1982
TOTAL NOMINAL ABSORBED POWER (1)		kW	231,00	264,80	309,20	345,60	384,90	423,64	300,12	518,40
EER (1)		kW/kW	3,54	3,52	3,49	3,49	3,41	3,40	3,59	3,49
NOMINAL WATER FLOW		m ³ /h	155,47	175,25	202,95	227,27	247,25	269,37	308,57	340,97
EVAPORATOR PRESSURE DROP		kPa	69	70	74	79	89	99	75	90
HYDRAULIC SECTION										
WATER FLOW RANGE		m ³ /h	111+221	101+201	127+254	148+297	158+315	157+314	191+381	189+379
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	23,5	23,5	23,5	0,0	0,0	0,0	0,0	0,0
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	39,0	39,0	39,0	0,0	0,0	0,0	0,0	0,0
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,1	39,1	39,1	NA	NA	NA	NA	NA
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,6	65,6	65,6	NA	NA	NA	NA	NA
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	200	200	200	200	250	250
FAN SECTION (AXIAL)										
FANS		nr.	12	12	14	16	18	18	24	24
CONDENSER COILS		nr.	12	12	14	16	18	18	12	12
MAXIMUM FANS ABSORBED POWER	EC	kW	24,48	24,48	28,56	32,64	36,72	36,72	48,96	48,96
MAXIMUM FANS ABSORBED CURRENT		A	41,52	41,52	48,44	55,36	62,28	62,28	83,04	83,04
TOTAL AIR FLOW		m ³ /h	239556	239556	279482	319408	359334	359334	435888	435888
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	606,8	666,8	694,6	782,4	896,2	1024,2	1053,6	1173,6
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	1792,4	1910,4	2316,3	2558,2	3127,1	3582,1	2655,8	2933,8
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	1519,6	1622,0	1945,7	2152,4	2623,1	3008,1	2285,2	2528,0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	69,7	69,9	70,8	71,6	72,3	72,8	72,1	72,8
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	66,6	66,8	67,5	68,3	69,0	69,3	68,3	68,9
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	65,3	65,5	66,3	67,1	67,8	68,3	67,4	68,2
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)		dB(A)	65,3	65,5	66,3	67,1	67,8	68,3	67,4	68,2
DIMENSIONS AND WEIGHT										
LENGTH		mm	8500	8500	9800	11100	12790	12790	12880	12880
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	7100	7250	8000	9200	9400	10100	11300	11600
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	7400	7600	8350	9600	9800	10500	11800	12100

Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C

(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 add-

(4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans

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

**Model 663-693 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

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PERFORMANCES	Model	663/F4**	693/F4**	783/F6	793/F6	863/F6	873/F8	883/F8	893/F10
NOMINAL COOLING CAPACITY (1)	kW	247	-	434	478	522	606	652	757
TOTAL NOMINAL ABSORBED POWER (1)	kW	60,90	-	112,20	128,80	148,40	155,00	184,40	198,30
EER (1)	kW/kW	3,58	-	3,48	3,39	3,25	3,54	3,25	3,46
NOMINAL WATER FLOW	m ³ /h	42,53	-	74,57	82,29	89,80	104,24	112,15	130,15
EVAPORATOR PRESSURE DROP	kPa	22	-	71	60	70	64	71	64
NOMINAL COOLING CAPACITY (6)	kW	297	-	515	568	600	720	771	913
TOTAL NOMINAL ABSORBED POWER (6)	kW	61,0	-	113,0	133,0	145,0	157,0	182,0	202,0
EER (6)	kW/kW	4,29	-	4,11	3,91	3,82	4,15	3,89	4,11
NOMINAL WATER FLOW	m ³ /h	36,50	-	63,30	69,80	73,80	88,40	94,70	112,20
EVAPORATOR PRESSURE DROP	kPa	17	-	52	61	48	67	51	48
HYDRAULIC SECTION									
WATER FLOW RANGE	m ³ /h	30+80	-	43+86	52+103	52+103	72+144	79+158	82+163
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2) kW	8,3	-	10,2	10,2	16,2	16,2	16,2	16,2
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)	A	14,1	-	17,4	17,4	26,6	26,6	26,6	26,6
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2) kW	16,2	-	24,9	24,9	31,9	31,9	31,9	31,9
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)	A	26,6	-	42,4	42,4	53,5	53,5	53,5	53,5
HYDRAULIC CONNECTIONS (VICTAULIC)	DN	100	-	100	125	125	150	150	150
FAN SECTION (AXIAL)									
FANS	nr.	4	-	6	6	6	8	8	10
CONDENSER COIL	nr.	4	-	6	6	6	8	8	10
MAXIMUM FANS ABSORBED POWER	EC kW	8,16	-	12,24	12,24	12,24	16,32	16,32	20,40
MAXIMUM FANS ABSORBED CURRENT	A	13,84	-	20,76	20,76	20,76	27,68	27,68	34,60
TOTAL AIR FLOW	m ³ /h	79852	-	119778	119778	119778	159704	159704	199630
TOTAL ELECTRIC DATA									
MAXIMUM ABSORBED CURRENT (F.L.A) (4)	A	231,6	-	363,4	383,4	455,4	523,2	551,2	659,0
MAXIMUM PEAK CURRENT (L.R.A) (4)	A	666,8	-	1039,7	1146,7	1254,7	1380,6	1489,6	1634,5
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)	A	565,2	-	881,7	969,3	1066,1	1176,0	1266,8	1398,3
NOISE DATA									
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)	dB(A)	65,0	-	69,1	69,1	68,0	68,6	69,4	69,7
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (4) (5)	dB(A)	61,9	-	65,3	65,3	64,5	65,3	65,8	66,4
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (4) (5)	dB(A)	60,6	-	64,5	64,5	63,5	64,1	64,8	65,3
DIMENSIONS AND WEIGHT									
LENGTH	mm	2910	-	4600	4600	4600	5900	5900	7200
WIDTH	mm	2210	-	2210	2210	2210	2210	2210	2210
HEIGHT	mm	2500	-	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)	kg	3050	-	4000	4300	4500	5250	5400	6300
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)	kg	3150	-	4150	4470	4700	5500	5650	6580

Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C

(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) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans

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

(6) Data referred to Inlet/Outlet water temperature = +22/15 °C, ambient temperature = +35°C

**Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

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PERFORMANCES	Model	963/F12	973/F12	983/F14	993/F16	9103/F18	9113/F18	983/F24***	993/F24***
NOMINAL COOLING CAPACITY (1)	kW	898	1003	1160	1327	1438	-	1764	1980
TOTAL NOMINAL ABSORBED POWER (1)	kW	229,68	269,20	302,94	333,94	388,10	-	440,10	506,28
EER (1)	kW/kW	3,53	3,41	3,50	3,62	3,38	-	3,61	3,57
NOMINAL WATER FLOW	m ³ /h	154,48	172,48	199,58	228,26	247,25	-	303,43	340,62
EVAPORATOR PRESSURE DROP	kPa	68	69	73	81	90	-	74	90
NOMINAL COOLING CAPACITY (6)	kW	1070	1194	1389	1596	1738	-	2073	2244
TOTAL NOMINAL ABSORBED POWER (6)	kW	229,0	275,0	305,0	349,0	408,0	-	445,0	520,0
EER (6)	kW/kW	4,22	3,99	4,16	4,18	3,91	-	4,20	3,94
NOMINAL WATER FLOW	m ³ /h	131,40	146,70	170,70	196,10	213,50	-	254,70	275,80
EVAPORATOR PRESSURE DROP	kPa	71	64	54	60	97	-	71	60
HYDRAULIC SECTION									
WATER FLOW RANGE	m ³ /h	108+195	108+195	123+247	144+287	154+307	-	185+370	185+370
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2) kW	23,5	23,5	23,5	0,0	0,0	-	0,0	0,0
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)	A	39,0	39,0	39,0	0,0	0,0	-	0,0	0,0
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2) kW	39,1	39,1	39,1	NA	NA	-	NA	NA
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)	A	65,6	65,6	65,6	NA	NA	-	NA	NA
HYDRAULIC CONNECTIONS (VICTAULIC)	DN	150	150	200	200	200	-	250	250
FAN SECTION (AXIAL)									
FANS	nr.	12	12	14	16	18	-	24	24
CONDENSER COIL	nr.	12	12	14	16	18	-	12	12
MAXIMUM FANS ABSORBED POWER	EC kW	24,48	24,48	28,56	32,64	36,72	-	48,96	48,96
MAXIMUM FANS ABSORBED CURRENT	A	41,52	41,52	48,44	55,36	62,28	-	83,04	83,04
TOTAL AIR FLOW	m ³ /h	239556	239556	279482	319408	359334	-	435888	435888
TOTAL ELECTRIC DATA									
MAXIMUM ABSORBED CURRENT (F.L.A) (4)	A	786,8	886,8	954,6	962,4	1202,2	-	1443,6	1443,6
MAXIMUM PEAK CURRENT (L.R.A) (4)	A	2370,4	2637,4	3167,3	3171,2	3705,1	-	3636,8	3636,8
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)	A	1999,8	2231,6	2663,3	2667,2	3131,1	-	3132,8	3132,8
NOISE DATA									
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)	dB(A)	70,6	71,3	72,1	72,2	72,8	-	73,6	73,6
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (4) (5)	dB(A)	67,2	67,7	68,5	68,7	69,3	-	69,4	69,4
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (4) (5)	dB(A)	66,1	66,8	67,5	67,7	68,3	-	68,8	68,8
DIMENSIONS AND WEIGHT									
LENGTH	mm	8500	8500	9800	11100	12790	-	12880	12880
WIDTH	mm	2210	2210	2210	2210	2210	-	2210	2210
HEIGHT	mm	2500	2500	2500	2500	2500	-	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)	kg	7100	7250	8000	9200	9400	-	11300	11600
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)	kg	7400	7600	8350	9600	9800	-	11800	12100

Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C

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