



TEAM
AIR POWER

DTS / DTSF SERIES



DISCOVER HITEMA® CUSTOMIZED APPLICATIONS

choose your customized configuration



ENR/ENRF SERIES
1,6kW ÷ 440kW

CSE SERIES
30kW ÷ 377kW

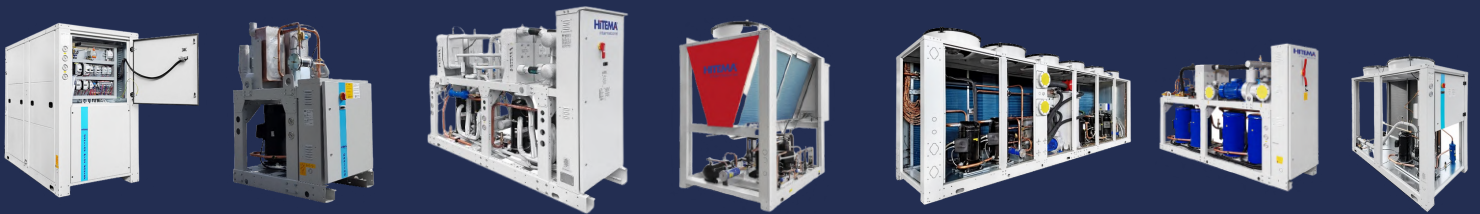
CFT SERIES
7,9kW ÷ 410kW

ENR-IR SERIES
8kW ÷ 200kW

ENRC SERIES
7,4kW ÷ 375kW

HNR SERIES
14kW ÷ 95kW
15kW ÷ 104kW

UNTIL 400KW



ENW SERIES
3,8kW ÷ 424kW

CFTW SERIES
50kW ÷ 371kW

HFTW SERIES
100kW ÷ 400kW
80kW ÷ 370kW

SBS-HP SERIES
61,2kW - 81,4kW -
105,8kW

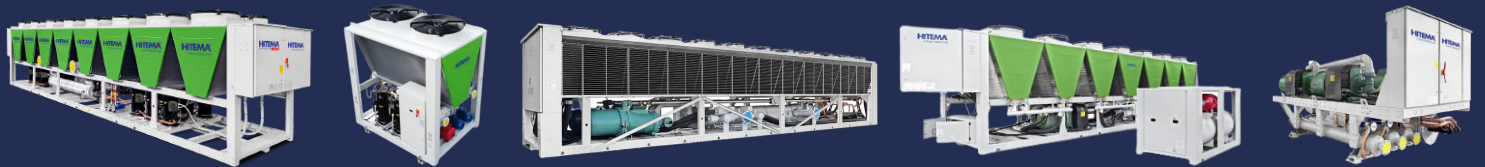
HFT SERIES
16kW ÷ 345kW

CFTC SERIES
50kW ÷ 370kW

MTC SERIES
8kW ÷ 430kW

CUSTOMIZED FOR YOU

with more than 100 OPTIONS available it is easy to customized your Chillers



SBS/SBSF SERIES
SBSF-OPT SERIES
94kW ÷ 1288kW

SBS-MC SERIES
95kW ÷ 180kW

NOVA/NOVAF SERIES
266kW ÷ 2136kW

DTS/DTSF SERIES NEW!
ISV-ISVF SERIES
266kW ÷ 2136kW

EWB SERIES
291kW ÷ 2240kW

UNTIL 3000KW



CWB SERIES
291kW ÷ 2240kW

HBS SERIES
211kW - 750kW

TFW SERIES
250kW ÷ 3000kW

TFV/TFVF SERIES
250kW ÷ 1215kW

PRP/HPRP SERIES
130kW ÷ 520kW
55kW ÷ 330kW

HYD SERIES
400L ÷ 5000L

DTS SERIES

*Air-Cooled liquid Chillers, screw compressors
EC fans
IP54 protection rating
Suitable for OUTDOOR installation*



Technical Data Tables

SERIES: DTS - DTSF CODE: GPLSPC20 CHECKED BY	DATE: 19.05.2022 UPDATE: GPLSPC19 M. Burba
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Air cooled liquid chillers DTS series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation.

Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M2 = standard configuration, with AC fans with cut phase regulation, with economizer and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	663/F4**	693/F4**	783/F6	793/F6	863/F6	873/F8	883/F8	893/F10
NOMINAL COOLING CAPACITY (1)	ECO.M2 (3)	kW	248	308	432	477	519	606	666	755
TOTAL NOMINAL ABSORBED POWER (1)		kW	61,20	79,58	110,20	127,66	146,16	153,60	183,20	198,34
EER (1)		kW/kW	3,57	3,51	3,53	3,41	3,28	3,56	3,34	3,45
NOMINAL WATER FLOW		m3/h	42,60	53,00	74,38	82,07	89,26	104,17	114,48	129,85
EVAPORATOR PRESSURE DROP		kPa	22	22	70	59	69	64	50	64
HYDRAULIC SECTION										
WATER FLOW RANGE		m3/h	30÷80	30÷80	44÷88	48÷97	49÷97	74÷148	74÷148	84÷168
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	8,3	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	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	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	26,6	42,4	42,4	53,5	53,5	53,5	53,5
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	100	100	100	125	125	150	150	150
FAN SECTION (AXIAL)										
FANS		nr.	4	4	6	6	6	8	8	10
CONDENSER COILS		nr.	4	4	6	6	6	8	8	10
MAXIMUM FANS ABSORBED POWER	EC	kW	8,16	8,16	12,24	12,24	12,24	16,32	16,32	20,40
MAXIMUM FANS ABSORBED CURRENT		A	13,84	13,84	20,76	20,76	20,76	27,68	27,68	34,60
TOTAL AIR FLOW		m3/h	79852	79852	119778	119778	119778	159704	159704	199630
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	147,6	231,6	311,4	347,4	333,4	395,2	423,2	467,0
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	436,8	675,8	796,7	925,7	900,7	1070,6	1230,6	1339,5
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	369,2	574,2	679,7	788,5	765,7	910,4	1042,0	1134,9
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	63,5	65,0	65,0	64,8	67,9	69,3	68,3	68,8
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (4) (5)		dB(A)	61,0	61,9	62,6	62,5	64,4	65,8	65,1	65,8
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (4) (5)		dB(A)	59,3	60,6	60,9	60,7	63,3	64,8	63,8	64,4
DIMENSIONS AND WEIGHT										
LENGTH		mm	2910	2910	4600	4600	4600	5900	5900	7200
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	3050	3200	4000	4300	4500	5250	5400	6300
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	3150	3330	4150	4470	4700	5500	5650	6580

The manufacturer reserves the right to modify specifications without notice.

Last update: 02/05/2022
Revision: 00-2022

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.

**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

Air cooled liquid chillers DTS series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation.

Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M2 = standard configuration, with AC fans with cut phase regulation, with economizer and standard compressor motor size

M2

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		m3/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		m3/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 COIL		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		m3/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 CONFIGURATION (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 CONFIGURATION (4) (5)		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

The manufacturer reserves the right to modify specifications without notice.

Last update: 02/05/2022
Revision: 00-2022

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.

***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

Air cooled liquid chillers DTS series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation.

Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M1 = standard configuration, with AC fans with cut phase regulation, with economizer and oversized compressor motor size

NE.M1 = chiller without economizer, with AC fans with cut phase regulation and oversized compressor motor size

M1

TECHNICAL DATA

PERFORMANCES		Model	663/F4**	693/F4**	783/F6	793/F6	863/F6	873/F8	883/F8	893/F10
NOMINAL COOLING CAPACITY (1)	ECO.M1 (3)	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		m3/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)	NE.M1 (3)	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		m3/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		m3/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		m3/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

The manufacturer reserves the right to modify specifications without notice.

Last update: 02/05/2022
Revision: 00-2022

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

Air cooled liquid chillers DTS series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation.

Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M1 = standard configuration, with AC fans with cut phase regulation, with economizer and oversized compressor motor size

NE.M1 = chiller without economizer, with AC fans with cut phase regulation and oversized compressor motor size

M1

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.M1 (3)	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)	NE.M1 (3)	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

The manufacturer reserves the right to modify specifications without notice.

Last update: 02/05/2022
Revision: 00-2022

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

DTSF SERIES

*Freecooling liquid chillers, screw compressors
EC fans
IP54 protection rating
Suitable for OUTDOOR installation*



Technical Data Tables

SERIES: DTS - DTSF	DATE: 19.05.2022
CODE: GPLSPC20	UPDATE: GPLSPC19
CHECKED BY:	M. Burba



Air cooled liquid chillers DTSF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser and OPTIMIZED freecooling coil with copper tubes and aluminium fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency. Inbuilt water storage tank and single pump P3 as option. Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M2 = standard configuration, with EC fans, with economizer and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	663/F4**	683/F6	773/F6	793/F8	863/F8	873/F10	883/F10	893/F12
NOMINAL COOLING CAPACITY (1)	ECO M2 (3)	kW	242	286	362	490	531	615	680	768
TOTAL NOMINAL ABSORBED POWER (1)		kW	65.20	67.20	96.96	122.26	139.96	150.96	181.44	198.60
EER (1)		kW/kW	3.28	3.59	3.30	3.52	3.39	3.58	3.35	3.42
NOMINAL WATER FLOW		m3/h	41.54	49.25	62.31	84.26	91.38	105.82	116.90	132.13
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	-1.30	0.70	-1.22	-1.35	-2.20	-1.00	-2.00	-1.30
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	28	58	79	72	57	67	52	75
FREE COOLING MODE PRESSURE DROPS (5)		kPa	103	102	149	132	126	136	133	131
HYDRAULIC SECTION										
WATER FLOW RANGE (7)		m3/h	30+80	30+80	44+88	54+108	64+129	75+149	83+166	79+159
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	10.2	10.2	16.2	16.2	24.9	24.9	24.9	24.9
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	17.4	17.4	26.6	26.6	42.2	42.2	42.2	42.2
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	19.9	19.9	19.9	31.9	39.1	39.1	39.1	NA
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32.7	32.7	32.7	53.5	65.6	65.6	65.6	NA
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	100	100	100	125	125	150	150	150
FAN SECTION (AXIAL)										
FANS		nr.	4	6	6	8	8	10	10	12
CONDENSER COILS		nr.	4	6	6	8	8	10	10	12
MAXIMUM FANS ABSORBED POWER	EC	kW	8.44	12.66	12.66	16.88	16.88	21.10	21.70	26.04
MAXIMUM FANS ABSORBED CURRENT		A	14.08	21.12	21.12	28.16	28.16	35.20	35.80	42.96
TOTAL AIR FLOW		m3/h	70984	106476	106476	141968	141968	177460	177460	212952
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)		A	147.6	195.4	271.4	355.2	341.2	403.0	431.0	474.8
MAXIMUM PEAK CURRENT (L.R.A) (7)		A	436.8	543.7	666.7	929.6	904.6	1074.5	1234.5	1343.4
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (7)		A	369.2	461.5	569.7	792.4	769.6	914.3	1045.9	1138.8
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)		dB(A)	63.5	64.9	64.9	65.3	68.1	69.5	68.5	69.0
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (7) (8)		dB(A)	61.0	62.5	62.5	63.4	65.0	66.2	65.6	66.2
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (7) (8)		dB(A)	59.3	60.8	60.8	61.4	63.7	65.0	64.2	64.7
DIMENSIONS AND WEIGHT										
LENGTH		mm	2910	4600	4600	5900	5900	7200	7200	8500
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 (7)		kg	3050	3200	4000	4300	4500	5250	5400	6300
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7)		kg	3150	3330	4150	4470	4700	5500	5650	6580

The manufacturer reserves the right to modify specifications without notice.

Last update: 03/05/2022
Revision: 00-2022

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) Pressure drops taken in account: evaporator, valves, 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 (chiller without pump) and considering 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.

**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

Air cooled liquid chillers DTSF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser and OPTIMIZED freecooling coil with copper tubes and aluminium fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency. Inbuilt water storage tank and single pump P3 as option. Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:
ECO.M2 = standard configuration, with EC fans, with economizer and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	963/F14	973/F14	983/F16	993/F16	9103/F18	9113/F18	973/F24***	983/F24***
NOMINAL COOLING CAPACITY (1)	ECO M2 (3)	kW	912	1029	1185	1306	1410	1509	1546	1730
TOTAL NOMINAL ABSORBED POWER (1)		kW	236.00	268.00	320.00	368.00	412.96	454.00	381.96	480.66
EER (1)		kW/kW	3.42	3.45	3.34	3.24	3.12	3.06	3.56	3.25
NOMINAL WATER FLOW		m3/h	156.86	177.03	203.74	224.70	242.51	259.52	265.85	297.63
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	-1.50	-2.80	-2.80	-4.00	-3.50	-4.40	-6.00	-6.80
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	81	78	87	84	97	110	90	112
FREE COOLING MODE PRESSURE DROPS (5)		kPa	139	148	158	165	176	199	143	172
HYDRAULIC SECTION										
WATER FLOW RANGE (7)		m3/h	102+203	117+233	147+295	150+300	150+300	150+300	155+320	160+325
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	NA	NA	NA	NA	NA	NA	NA	NA
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	NA	NA	NA	NA	NA	NA	NA	NA
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	200	200	200	200	200	200
FAN SECTION (AXIAL)										
FANS		nr.	14	14	16	16	18	18	24	24
CONDENSER COIL		nr.	14	14	16	16	18	18	12	12
MAXIMUM FANS ABSORBED POWER	EC	kW	30.38	30.38	34.72	34.72	39.06	39.06	51.60	51.60
MAXIMUM FANS ABSORBED CURRENT		A	50.12	50.12	57.28	57.28	64.44	64.44	85.44	85.44
TOTAL AIR FLOW		m3/h	248444	248444	283936	283936	319428	319428	412608	412608
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)		A	614.6	674.6	702.4	782.4	896.2	1024.2	1023.6	1053.6
MAXIMUM PEAK CURRENT (L.R.A) (7)		A	1796.3	1914.3	2320.2	2558.2	3127.1	3582.1	2243.8	2655.8
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (7)		A	1523.5	1625.9	1949.6	2152.4	2623.1	3008.1	1955.4	2285.2
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)		dB(A)	69.9	70.1	70.9	71.6	72.3	72.8	71.3	72.1
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (7) (8)		dB(A)	67.0	67.1	67.8	68.3	69.0	69.3	67.7	68.3
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (7) (8)		dB(A)	65.6	65.7	66.5	67.1	67.8	68.3	66.7	67.4
DIMENSIONS AND WEIGHT										
LENGTH		mm	9800	9800	11100	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 (7)		kg	7100	7250	8000	9200	9400	10100	11300	11600
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7)		kg	7400	7600	8350	9600	9800	10500	11800	12100

The manufacturer reserves the right to modify specifications without notice.

Last update: 03/05/2022
Revision: 00-2022

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) Pressure drops taken in account: evaporator, valves, 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 (chiller without pump) and considering 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.

**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

Air cooled liquid chillers DTSF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser and OPTIMIZED freecooling coil with copper tubes and aluminium fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency. Inbuilt water storage tank and single pump P3 as option.
Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M1 = standard configuration, with EC fans, with economizer and oversized compressor motor size

NE.M1 = chiller without economizer, with EC fans and oversized compressor motor size

M1

TECHNICAL DATA

PERFORMANCES		Model	663/F4**	683/F6	773/F6	793/F8	863/F8	873/F10	883/F10	893/F12	
NOMINAL COOLING CAPACITY (1)	ECO.M1 (3)	kW	242	-	365	489	536	613	665	767	
		TOTAL NOMINAL ABSORBED POWER (1)	kW	64.54	-	96.42	127.76	145.18	157.12	184.78	200.92
		EER (1)	kW/kW	3.31	-	3.34	3.38	3.31	3.44	3.22	3.38
		NOMINAL WATER FLOW	m3/h	41.54	-	62.70	84.07	92.18	105.43	114.33	131.93
		AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	-1.26	-	-1.26	-1.35	-2.26	-1.39	-2.20	-1.80
		MECHANICAL MODE PRESSURE DROPS (4) (6) (7)	kPa	28	-	80	72	58	67	51	74
FREE COOLING MODE PRESSURE DROPS (5)	kPa	92	-	140	133	127	134	127	129		
NOMINAL COOLING CAPACITY (9)	NE.M1 (3)	kW	284	-	437	582	610	719	771	906	
		TOTAL NOMINAL ABSORBED POWER (9)	kW	64.8	-	99.1	129.6	141.8	157.7	182.0	203.8
		EER (9)	kW/kW	3.88	-	3.91	3.97	3.84	4.02	3.78	3.94
		NOMINAL WATER FLOW (9)	m3/h	34.90	-	53.70	71.50	74.90	88.30	94.70	111.30
		AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	5.00	-	4.83	4.80	4.23	5.00	4.15	4.39
		MECHANICAL MODE PRESSURE DROPS (4) (6) (7)	kPa	21	-	77	71	54	64	50	54
FREE COOLING MODE PRESSURE DROPS (5)	kPa	91	-	146	139	127	135	130	119		
HYDRAULIC SECTION											
WATER FLOW RANGE (7)		m3/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	10.2	-	16.2	16.2	24.9	24.9	24.9	24.9	
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	17.4	-	26.6	26.6	42.2	42.2	42.2	42.2	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	19.9	-	19.9	31.9	39.1	39.1	39.1	NA	
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32.7	-	32.7	53.5	65.6	65.6	65.6	NA	
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	100	-	100	125	125	150	150	150	
FAN SECTION (AXIAL)											
FANS		nr.	4	-	6	8	8	10	10	12	
CONDENSER COIL		nr.	4	-	6	8	8	10	10	12	
MAXIMUM FANS ABSORBED POWER	EC	kW	8.44	-	12.66	16.88	16.88	21.10	21.70	26.04	
MAXIMUM FANS ABSORBED CURRENT		A	14.08	-	21.12	28.16	28.16	35.20	35.80	42.96	
TOTAL AIR FLOW		m3/h	70984	-	106476	141968	141968	177460	177460	212952	
TOTAL ELECTRIC DATA											
MAXIMUM ABSORBED CURRENT (F.L.A) (7)		A	231.6	-	347.4	391.2	463.2	531.0	559.0	666.8	
MAXIMUM PEAK CURRENT (L.R.A) (7)		A	666.8	-	925.7	1150.6	1258.6	1384.5	1493.5	1638.4	
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (7)		A	565.2	-	788.5	973.2	1070.0	1179.9	1270.7	1402.2	
NOISE DATA											
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)		dB(A)	65.0	-	64.8	69.3	68.3	68.8	69.6	69.9	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (7) (8)		dB(A)	61.9	-	62.5	65.8	65.1	65.8	66.3	66.8	
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (7) (8)		dB(A)	60.6	-	60.7	64.8	63.8	64.4	65.1	65.5	
DIMENSIONS AND WEIGHT											
LENGTH		mm	2910	-	4600	5900	5900	7200	7200	8500	
WIDTH		mm	2210	-	2210	2210	2210	2210	2210	2210	
HEIGHT		mm	2500	-	2500	2500	2500	2500	2500	2500	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (7)		kg	3050	-	4000	4300	4500	5250	5400	6300	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7)		kg	3150	-	4150	4470	4700	5500	5650	6580	

The manufacturer reserves the right to modify specifications without notice.

Last update: 03/05/2022
Revision: 00-2022

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) Pressure drops taken in account: evaporator, valves, 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 (chiller without pump) and considering 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) 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

Air cooled liquid chillers DTSF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser and OPTIMIZED freecooling coil with copper tubes and aluminium fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency. Inbuilt water storage tank and single pump P3 as option.
Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M1 = standard configuration, with EC fans, with economizer and oversized compressor motor size

NE.M1 = chiller without economizer, with EC fans and oversized compressor motor size

M1

TECHNICAL DATA

PERFORMANCES		Model	963/F14	973/F14	983/F16	993/F16	9103/F18	9113/F18	973/F24***	983/F24***
ECO.M1 (3)	NOMINAL COOLING CAPACITY (1)	kW	906	1011	1165	1301	1410	-	1546	1708
	TOTAL NOMINAL ABSORBED POWER (1)	kW	235.14	275.34	313.32	364.14	416.48	-	396.33	466.05
	EER (1)	kW/kW	3.41	3.31	3.35	3.26	3.10	-	3.45	3.30
	NOMINAL WATER FLOW	m3/h	155.87	173.87	200.37	223.71	242.51	-	265.85	293.76
	AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	-1.95	-3.10	-3.20	-4.52	-3.50	-	-4.90	-6.60
	MECHANICAL MODE PRESSURE DROPS (4) (6) (7)	kPa	80	75	85	83	97	-	90	109
FREE COOLING MODE PRESSURE DROPS (5)	kPa	137	141	153	163	176	-	141	169	
NE.M1 (3)	NOMINAL COOLING CAPACITY (9)	kW	1053	1175	1362	1518	1663	-	1781	1989
	TOTAL NOMINAL ABSORBED POWER (9)	kW	233.0	280.0	314.0	372.0	428.0	-	401.0	471.0
	EER (9)	kW/kW	4.00	3.79	3.91	3.73	3.56	-	3.94	3.81
	NOMINAL WATER FLOW (9)	m3/h	129.40	144.40	167.30	186.50	204.30	-	218.80	244.40
	AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	4.39	3.05	2.87	1.26	2.30	-	0.90	0.00
	MECHANICAL MODE PRESSURE DROPS (4) (6) (7)	kPa	71	53	77	76	90	-	63	77
FREE COOLING MODE PRESSURE DROPS (5)	kPa	143	129	156	170	183	-	118	141	
HYDRAULIC SECTION										
WATER FLOW RANGE (7)	m3/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	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	NA	NA	NA	NA	NA	-	NA	NA
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	NA	NA	NA	NA	NA	-	NA	NA
HYDRAULIC CONNECTIONS (VICTAULIC)	DN		150	150	200	200	200	-	200	200
FAN SECTION (AXIAL)										
FANS	nr.		14	14	16	16	18	-	24	24
CONDENSER COIL	nr.		14	14	16	16	18	-	12	12
MAXIMUM FANS ABSORBED POWER	EC	kW	30.38	30.38	34.72	34.72	39.06	-	51.60	51.60
MAXIMUM FANS ABSORBED CURRENT		A	50.12	50.12	57.28	57.28	64.44	-	85.44	85.44
TOTAL AIR FLOW	m3/h		248444	248444	283936	283936	319428	-	412608	412608
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)	A		794.6	894.6	962.4	962.4	1202.2	-	1353.6	1443.6
MAXIMUM PEAK CURRENT (L.R.A) (7)	A		2374.3	2641.3	3171.2	3171.2	3705.1	-	3080.8	3636.8
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (7)	A		2003.7	2235.5	2667.2	2667.2	3131.1	-	2675.0	3132.8
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)	dB(A)		70.8	71.5	72.2	72.2	72.8	-	72.8	73.6
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (7) (8)	dB(A)		67.5	68.0	68.7	68.7	69.3	-	68.9	69.4
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (7) (8)	dB(A)		66.3	67.0	67.7	67.7	68.3	-	68.2	68.8
DIMENSIONS AND WEIGHT										
LENGTH	mm		9800	9800	11100	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 (7)	kg		7100	7250	8000	9200	9400	-	11300	11600
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7)	kg		7400	7600	8350	9600	9800	-	11800	12100

The manufacturer reserves the right to modify specifications without notice.

Last update: 03/05/2022
Revision: 00-2022

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) Pressure drops taken in account: evaporator, valves, 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 (chiller without pump) and considering 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) 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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