TEAM
AIR POWER

NOVA / NOVAF 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

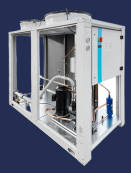
HNR SERIES
14kW ÷ 95kW
15kW ÷ 104kW

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

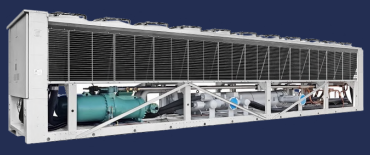
CFTC SERIES
50kW ÷ 370kW

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

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NOVA SERIES

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

SERIES: NOVA-NOVAF	DATE: 04/10/2021	
CODE: TTD-NOVA-01	UPDATE: -	
CHECKED BY		M. Burba

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TEAM AIR POWER

NOVA

TABLE 1/4

Air cooled liquid chillers NOVA series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins and axial fans. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Water storage tank NOT available.
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
HE.M2 = high efficiency configuration with EC fans, optimized coil design, with economizer and standard compressor motor size
NE.M2 = chiller without economizer, with AC fans with cut phase regulation 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	240	295	428	471	517	598	656	748
TOTAL NOMINAL ABSORBED POWER (1)		kW	63,76	84,30	118,24	138,20	156,00	166,00	199,00	213,00
EER (1)		kW/kW	3,40	3,24	3,34	3,18	3,11	3,32	3,08	3,25
NOMINAL WATER FLOW		m3/h	41,20	50,70	73,70	80,90	89,00	102,00	112,80	128,00
EVAPORATOR PRESSURE DROP		kPa	21	25	43	58	68	62	49	63
NOMINAL COOLING CAPACITY (1)	NE.M2 (3)	kW	213	263	381	422	449	533	576	672
TOTAL NOMINAL ABSORBED POWER (1)		kW	56,0	74,0	103,0	121,0	131,0	146,0	170,0	187,0
EER (1)		kW/kW	3,40	3,27	3,38	3,21	3,17	3,35	3,15	3,30
NOMINAL WATER FLOW		m3/h	36,60	45,20	65,00	72,00	77,00	92,00	99,00	115,00
EVAPORATOR PRESSURE DROP		kPa	18	18	46	48	53	51	56	52
NOMINAL COOLING CAPACITY (1)	HE.M2 (3)	kW	244	304	439	483	526	614	676	767
TOTAL NOMINAL ABSORBED POWER (1)		kW	60,4	78,9	110,9	129,4	148,0	155,0	184,0	199,0
EER (1)		kW/kW	3,56	3,47	3,57	3,41	3,28	3,58	3,37	3,49
NOMINAL WATER FLOW		m3/h	42,00	52,20	75,00	83,00	90,50	105,60	116,00	131,00
EVAPORATOR PRESSURE DROP		kPa	21	26	44	60	70	65	51	66
HYDRAULIC SECTION										
WATER FLOW RANGE		m3/h	30÷80	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	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
MAXIMUM FANS ABSORBED POWER	AC	kW	7,76	7,76	11,64	11,64	11,64	15,52	15,52	19,40
MAXIMUM FANS ABSORBED CURRENT		A	15,60	15,60	23,40	23,40	23,40	31,20	31,20	39,00
TOTAL AIR FLOW		m3/h	71651	71651	107476	107476	104378	143302	143302	179127
MAXIMUM FANS ABSORBED POWER	EC	kW	10,24	10,24	15,36	15,36	15,36	20,48	20,48	25,60
MAXIMUM FANS ABSORBED CURRENT		A	15,60	15,60	23,40	23,40	23,40	31,20	31,20	39,00
TOTAL AIR FLOW		m3/h	81515	81515	122272	122272	122272	163030	163030	203787
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	437,0	676,0	797,0	926,0	901,0	1014,2	1231,0	1340,0
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	369,0	574,0	680,0	789,0	766,0	910,0	1042,0	1135,0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	63,8	65,6	64,3	64,1	67,5	68,6	67,7	68,1
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	61,5	63,0	61,4	61,3	63,6	64,1	63,8	64,4
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	59,7	61,4	60,0	59,8	62,9	63,8	63,0	63,4
DIMENSIONS AND WEIGHT										
LENGTH		mm	3100	3100	4050	4050	4050	5000	5000	5950
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: 01/04/2021
Revision: 00-2021

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 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 indipendent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

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TEAM AIR POWER

NOVA

TABLE 2/4

Air cooled liquid chillers NOVA series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins and axial fans. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Water storage tank NOT available.
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
HE.M2 = high efficiency configuration with EC fans, optimized coil design, with economizer and standard compressor motor size
NE.M2 = chiller without economizer, with AC fans with cut phase regulation and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	963/F12	973/F12	983/F14	993/F18	9103/F18	9113/F20	983/F24***	993/F24***
NOMINAL COOLING CAPACITY (1)	ECO.M2 (3)	kW	896	973	1130	1314	1408	1526	1695	1851
TOTAL NOMINAL ABSORBED POWER (1)	ECO.M2 (3)	kW	246,00	279,00	326,00	365,00	414,00	445,00	321,00	363,00
EER (1)	ECO.M2 (3)	kW/kW	3,35	3,24	3,22	3,32	3,16	3,18	4,68	4,57
NOMINAL WATER FLOW	ECO.M2 (3)	m3/h	154,00	167,00	194,00	226,00	242,00	262,00	291,00	318,00
EVAPORATOR PRESSURE DROP	ECO.M2 (3)	kPa	68	65	68	79	85	95	67	79
NOMINAL COOLING CAPACITY (1)	NE.M2 (3)	kW	802	874	1016	1195	1283	1399	1527	1680
TOTAL NOMINAL ABSORBED POWER (1)	NE.M2 (3)	kW	216,0	247,0	288,0	330,0	374,0	406,0	429,0	491,0
EER (1)	NE.M2 (3)	kW/kW	3,39	3,27	3,26	3,31	3,17	3,18	3,25	3,16
NOMINAL WATER FLOW	NE.M2 (3)	m3/h	137,00	150,00	174,80	205,60	220,00	240,00	262,00	288,00
EVAPORATOR PRESSURE DROP	NE.M2 (3)	kPa	56	54	57	66	72	81	56	66
NOMINAL COOLING CAPACITY (1)	HE.M2 (3)	kW	921	1004	1163	1358	1442	1566	1744	1891
TOTAL NOMINAL ABSORBED POWER (1)	HE.M2 (3)	kW	231,0	262,0	307,0	338,0	397,0	423,0	302,0	347,0
EER (1)	HE.M2 (3)	kW/kW	3,58	3,48	3,45	3,60	3,31	3,36	4,96	4,77
NOMINAL WATER FLOW	HE.M2 (3)	m3/h	158,00	172,00	200,00	233,00	248,00	269,00	300,00	325,00
EVAPORATOR PRESSURE DROP	HE.M2 (3)	kPa	71	68	72	83	89	99	71	82
HYDRAULIC SECTION										
WATER FLOW RANGE		m3/h	108÷195	108÷195	123÷247	144÷287	154÷307	167÷333	185÷370	185÷370
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	23,5	23,5	23,5	NA for this cabinet size, please refer to Hitema hydro module series HYD				
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)	P3 (2)	A	39,0	39,0	39,0					
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,1	39,1	39,1	NA for this cabinet size, please refer to Hitema hydro module series HYD				
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)	P5 (2)	A	65,6	65,6	65,6					
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	200	200	200	200	250	250
FAN SECTION (AXIAL)										
FANS		nr.	12	12	14	18	18	20	24	24
MAXIMUM FANS ABSORBED POWER	AC	kW	23,28	23,28	27,16	34,92	34,92	38,80	46,56	46,56
MAXIMUM FANS ABSORBED CURRENT	AC	A	46,80	46,80	54,60	70,20	70,20	78,00	93,60	93,60
TOTAL AIR FLOW	AC	m3/h	199461	199461	232704	299191	285249	332435	420610	402020
MAXIMUM FANS ABSORBED POWER	EC	kW	30,72	30,72	35,84	46,08	46,08	51,20	61,44	61,44
MAXIMUM FANS ABSORBED CURRENT	EC	A	46,80	46,80	54,60	70,20	70,20	78,00	93,60	93,60
TOTAL AIR FLOW	EC	m3/h	226261	226261	263971	339391	339391	377101	475792	475792
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	606,8	666,8	694,6	790,2	896,2	1032,0	1053,6	1173,6
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	1792,0	1910,0	2316,0	2562,0	3127,0	3586,0	2656,0	2934,0
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	1520,0	1622,0	1946,0	2156,0	2623,0	3012,0	2285,0	2528,0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	68,7	69,3	70,1	70,9	71,6	72,2	72,1	72,9
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	64,3	65,7	66,0	66,6	67,3	67,8	68,7	69,0
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	63,9	64,6	65,3	66,1	66,8	67,4	67,5	68,2
DIMENSIONS AND WEIGHT										
LENGTH		mm	6900	6900	7850	9750	9750	10700	13140	13140
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: 01/04/2021
Revision: 00-2021

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 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 indipendent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

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TEAM AIR POWER

NOVA

TABLE 3/4

Air cooled liquid chillers NOVA series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins and axial fans. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Water storage tank NOT available.
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
HE.M1 = high efficiency configuration with EC fans, optimized coil design, 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	217	-	388	423	467	541	584	685
TOTAL NOMINAL ABSORBED POWER (1)		kW	79,52	-	149,20	174,00	199,50	212,50	251,40	266,00
EER (1)		kW/kW	2,48	-	2,41	2,28	2,21	2,37	2,19	2,40
NOMINAL WATER FLOW		m3/h	37,26	-	66,60	72,61	80,33	93,06	100,42	117,00
EVAPORATOR PRESSURE DROP		kPa	13	-	53	43	52	47	53	49
NOMINAL COOLING CAPACITY (6)	NE.M1 (3)	kW	283	-	494	542	577	683	731	875
TOTAL NOMINAL ABSORBED POWER (6)		kW	63,0	-	120,0	140,8	152,2	168,7	195,8	214,0
EER (6)		kW/kW	4,00	-	3,75	3,56	3,52	3,71	3,46	3,75
NOMINAL WATER FLOW		m3/h	34,72	-	60,80	66,71	71,10	84,00	90,00	107,60
EVAPORATOR PRESSURE DROP		kPa	11	-	43	51	40	56	42	40
NOMINAL COOLING CAPACITY (1)	HE.M1 (3)	kW	223	-	401	438	481	560	605	706
TOTAL NOMINAL ABSORBED POWER (1)		kW	75,4	-	140,0	162,0	188,0	199,5	232,0	248,5
EER (1)		kW/kW	2,68	-	2,64	2,52	2,41	2,60	2,44	2,64
NOMINAL WATER FLOW		m3/h	38,29	-	68,83	75,16	82,00	96,30	103,80	121,00
EVAPORATOR PRESSURE DROP		kPa	13	-	56	46	55	50	57	52
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
MAXIMUM FANS ABSORBED POWER	AC	kW	7,76	-	11,64	11,64	11,64	15,52	15,52	19,40
MAXIMUM FANS ABSORBED CURRENT		A	15,60	-	23,40	23,40	23,40	31,20	31,20	39,00
TOTAL AIR FLOW		m3/h	71651	-	107476	107476	104378	143302	143302	179127
MAXIMUM FANS ABSORBED POWER	EC	kW	10,24	-	15,36	15,36	15,36	20,48	20,48	25,60
MAXIMUM FANS ABSORBED CURRENT		A	15,60	-	23,40	23,40	23,40	31,20	31,20	39,00
TOTAL AIR FLOW		m3/h	81515	-	122272	122272	122272	163030	163030	203787
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	232,0	-	360,0	383,0	455,0	523,0	551,0	659,0
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	667,0	-	1040,0	1147,0	1255,0	1381,0	1490,0	1635,0
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	565,0	-	882,0	969,0	1066,0	1176,0	1267,0	1398,0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	64,9	-	68,9	69,0	67,7	68,1	69,0	69,1
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	61,8	-	64,7	65,0	63,8	64,1	64,8	64,9
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	60,5	-	64,1	64,3	63,0	63,4	64,2	64,4
DIMENSIONS AND WEIGHT										
LENGTH		mm	3100	-	4050	4050	4050	5000	5000	5950
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: 01/04/2021
Revision: 00-2021

Data referred to:
(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +45°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 indipendent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

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TEAM AIR POWER

NOVA

TABLE 4/4

Air cooled liquid chillers NOVA series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins and axial fans. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Water storage tank NOT available.
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
HE.M1 = high efficiency configuration with EC fans, optimized coil design, 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/F18	9103/F18	9113/F20	983/F24***	993/F24***
NOMINAL COOLING CAPACITY (1)	ECO.M1 (3)	kW	796	857	991	1169	1236	-	1534	1694
TOTAL NOMINAL ABSORBED POWER (1)		kW	300,00	344,80	385,20	434,00	502,00	-	567,00	645,00
EER (1)		kW/kW	2,46	2,33	2,40	2,49	2,30	-	2,50	2,45
NOMINAL WATER FLOW		m3/h	136,70	147,00	170,00	200,00	212,00	-	256,00	283,00
EVAPORATOR PRESSURE DROP		kPa	50	47	49	59	63	-	49	59
NOMINAL COOLING CAPACITY (6)	NE.M1 (3)	kW	1031	1112	1294	1543	1655	-	2003	2193
TOTAL NOMINAL ABSORBED POWER (6)		kW	238,0	282,0	316,0	364,8	431,6	-	468,0	540,0
EER (6)		kW/kW	3,95	3,64	3,77	3,86	3,55	-	3,89	3,74
NOMINAL WATER FLOW		m3/h	126,70	136,80	159,00	190,00	203,00	-	240,00	262,00
EVAPORATOR PRESSURE DROP		kPa	61	51	43	52	84	-	59	50
NOMINAL COOLING CAPACITY (1)	HE.M1 (3)	kW	822	888	1029	1224	1279	-	1591	1741
TOTAL NOMINAL ABSORBED POWER (1)		kW	298,0	325,6	364,4	404,0	480,0	-	538,8	618,0
EER (1)		kW/kW	2,56	2,55	2,63	2,79	2,48	-	2,72	2,62
NOMINAL WATER FLOW		m3/h	141,30	152,00	176,00	210,00	219,00	-	266,00	291,00
EVAPORATOR PRESSURE DROP		kPa	53	50	53	64	67	-	53	62
HYDRAULIC SECTION										
WATER FLOW RANGE		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	23,5	23,5	23,5	NA for this cabinet size, please refer to Hitema hydro module series HYD				
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	39,0	39,0	39,0					
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,1	39,1	39,1	NA for this cabinet size, please refer to Hitema hydro module series HYD				
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,6	65,6	65,6					
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	200	200	200	-	250	250
FAN SECTION (AXIAL)										
FANS		nr.	12	12	14	18	18	-	24	24
MAXIMUM FANS ABSORBED POWER	AC	kW	23,28	23,28	27,16	34,92	34,92	-	46,56	46,56
MAXIMUM FANS ABSORBED CURRENT		A	46,80	46,80	54,60	70,20	70,20	-	93,60	93,60
TOTAL AIR FLOW		m3/h	199461	199461	232704	299191	285249	-	420610	402020
MAXIMUM FANS ABSORBED POWER	EC	kW	30,72	30,72	35,84	46,08	46,08	-	61,44	61,44
MAXIMUM FANS ABSORBED CURRENT		A	46,80	46,80	54,60	70,20	70,20	-	93,60	93,60
TOTAL AIR FLOW		m3/h	226261	226261	263971	339391	339391	-	475792	475792
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	787,0	887,0	955,0	970,0	1202,0	-	1444,0	1444,0
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	2370,0	2637,0	3157,0	3175,0	3705,0	-	3637,0	3637,0
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	2000,0	2232,0	2663,0	2671,0	3131,0	-	3133,0	3133,0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	70,1	70,9	71,6	71,6	72,2	-	73,6	73,6
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	66,0	66,6	67,3	67,3	67,8	-	69,5	69,5
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	65,3	66,1	66,8	66,8	67,4		68,9	68,9
DIMENSIONS AND WEIGHT										
LENGTH		mm	6900	6900	7850	9750	9750	-	13140	13140
WIDTH		mm	2210	2210	2210	2210	2210	-	2210	2210
HEIGHT		mm	2450	2450	2450	2450	2450	-	2450	2450
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: 01/04/2021
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Data referred to:
(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +45°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 indipendent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

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TEAM AIR POWER

NOVA

TABLE 1/2

Air cooled liquid chillers NOVA series, screw compressors R1234ze, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins and axial fans. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Water storage tank NOT available.
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
HE.M2 = high efficiency configuration with EC fans, optimized coil design, with economizer and standard compressor motor size
NE.M2 = chiller without economizer, with AC fans with cut phase regulation 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	154	231	334	369	404	467	516	585
TOTAL NOMINAL ABSORBED POWER (1)	ECO.M2 (3)	kW	35,80	58,98	82,40	96,20	106,00	115,00	136,00	146,80
EER (1)	ECO.M2 (3)	kW/kW	3,54	3,46	3,55	3,42	3,43	3,58	3,41	3,52
NOMINAL WATER FLOW	ECO.M2 (3)	m3/h	26,60	39,67	57,33	63,34	69,47	80,26	88,57	100,59
EVAPORATOR PRESSURE DROP	ECO.M2 (3)	kPa	25	26	47	51	51	51	42	52
NOMINAL COOLING CAPACITY (1)	NE.M2 (3)	kW	137	209	301	335	357	423	460	533
TOTAL NOMINAL ABSORBED POWER (1)	NE.M2 (3)	kW	31,9	53,1	74,0	87,0	92,6	103,4	119,4	132,8
EER (1)	NE.M2 (3)	kW/kW	3,46	3,44	3,51	3,40	3,42	3,56	3,41	3,50
NOMINAL WATER FLOW	NE.M2 (3)	m3/h	23,61	35,70	51,67	57,50	61,31	72,61	78,90	91,32
EVAPORATOR PRESSURE DROP	NE.M2 (3)	kPa	30	22	40	42	40	42	34	43
NOMINAL COOLING CAPACITY (1)	HE.M2 (3)	kW	155	234	339	374	409	472	523	593
TOTAL NOMINAL ABSORBED POWER (1)	HE.M2 (3)	kW	35,2	57,2	80,3	92,8	102,0	111,6	131,2	142,0
EER (1)	HE.M2 (3)	kW/kW	3,41	3,46	3,54	3,46	3,49	3,57	3,45	3,54
NOMINAL WATER FLOW	HE.M2 (3)	m3/h	26,62	39,50	58,02	64,20	70,20	81,02	89,60	101,62
EVAPORATOR PRESSURE DROP	HE.M2 (3)	kPa	25	26	48	52	52	52	43	53
HYDRAULIC SECTION										
WATER FLOW RANGE		m3/h	25÷52	30÷61	36÷73	40÷80	42÷85	46÷94	47÷95	54÷108
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)	P3 (2)	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)	P5 (2)	A	26,6	26,6	42,4	42,4	53,5	53,5	53,5	53,5
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	80	100	100	100	100	100	100	125
FAN SECTION (AXIAL)										
FANS		nr.	4	4	6	6	6	8	8	10
MAXIMUM FANS ABSORBED POWER	AC	kW	7,76	7,76	11,64	11,64	11,64	15,52	15,52	19,40
MAXIMUM FANS ABSORBED CURRENT	AC	A	15,60	15,60	23,40	23,40	23,40	31,20	31,20	39,00
TOTAL AIR FLOW	AC	m3/h	71651	71651	107476	107476	104378	143302	143302	179127
MAXIMUM FANS ABSORBED POWER	EC	kW	10,24	10,24	15,36	15,36	15,36	20,48	20,48	25,60
MAXIMUM FANS ABSORBED CURRENT	EC	A	15,60	15,60	23,40	23,40	23,40	31,20	31,20	39,00
TOTAL AIR FLOW	EC	m3/h	81515	81515	122272	122272	122272	163030	163030	203787
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	437,0	676,0	797,0	926,0	901,0	1014,2	1231,0	1340,0
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	369,0	574,0	680,0	789,0	766,0	910,0	1042,0	1135,0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	63,8	65,6	64,3	64,1	67,5	68,6	67,7	68,1
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	61,5	63,0	61,4	61,3	63,6	64,1	63,8	64,4
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	59,7	61,4	60,0	59,8	62,9	63,8	63,0	63,4
DIMENSIONS AND WEIGHT										
LENGTH		mm	3100	3100	4050	4050	4050	5000	5000	5950
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

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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 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 indipendent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

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TEAM AIR POWER

NOVA

TABLE 2/2

Air cooled liquid chillers NOVA series, screw compressors R1234ze, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins and axial fans. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Water storage tank NOT available.
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
HE.M2 = high efficiency configuration with EC fans, optimized coil design, with economizer and standard compressor motor size
NE.M2 = chiller without economizer, with AC fans with cut phase regulation and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	963/F12	973/F12	983/F14	993/F18	9103/F18	9113/F20	983/F24***	993/F24***
NOMINAL COOLING CAPACITY (1)	ECO.M2 (3)	kW	691	759	879	1023	1104	1191	1349	1478
TOTAL NOMINAL ABSORBED POWER (1)	ECO.M2 (3)	kW	169,00	193,20	224,70	249,60	278,00	302,30	222,40	250,80
EER (1)	ECO.M2 (3)	kW/kW	3,59	3,51	3,49	3,60	3,53	3,49	5,02	4,97
NOMINAL WATER FLOW	ECO.M2 (3)	m3/h	118,61	130,20	151,00	175,60	189,67	204,40	231,50	253,70
EVAPORATOR PRESSURE DROP	ECO.M2 (3)	kPa	48	56	63	60	61	73	61	77
NOMINAL COOLING CAPACITY (1)	NE.M2 (3)	kW	626	688	799	945	1015	1105	1230	1357
TOTAL NOMINAL ABSORBED POWER (1)	NE.M2 (3)	kW	151,6	174,8	202,0	229,7	254,0	279,6	200,6	229,9
EER (1)	NE.M2 (3)	kW/kW	3,58	3,47	3,49	3,57	3,51	3,47	4,98	4,91
NOMINAL WATER FLOW	NE.M2 (3)	m3/h	107,45	118,27	137,52	162,20	174,22	189,60	211,13	232,90
EVAPORATOR PRESSURE DROP	NE.M2 (3)	kPa	40	46	52	52	52	64	51	66
NOMINAL COOLING CAPACITY (1)	HE.M2 (3)	kW	700	770	894	1035	1122	1209	1364	1498
TOTAL NOMINAL ABSORBED POWER (1)	HE.M2 (3)	kW	164,0	186,1	214,8	241,2	266,8	291,8	215,0	240,1
EER (1)	HE.M2 (3)	kW/kW	3,59	3,55	3,57	3,60	3,59	3,52	4,93	4,97
NOMINAL WATER FLOW	HE.M2 (3)	m3/h	119,90	132,20	153,45	177,60	192,59	207,52	234,13	257,13
EVAPORATOR PRESSURE DROP	HE.M2 (3)	kPa	49	57	65	62	63	75	62	79
HYDRAULIC SECTION										
WATER FLOW RANGE		m3/h	75÷150	75÷165	82÷172	122÷245	125÷250	120÷240	162÷324	165÷335
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	23,5	23,5	23,5	NA for this cabinet size, please refer to Hitema hydro module series HYD				
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)	P3 (2)	A	39,0	39,0	39,0					
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,1	39,1	39,1	NA for this cabinet size, please refer to Hitema hydro module series HYD				
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)	P5 (2)	A	65,6	65,6	65,6					
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	150	200	200	200	200	200
FAN SECTION (AXIAL)										
FANS		nr.	12	12	14	18	18	20	24	24
MAXIMUM FANS ABSORBED POWER	AC	kW	23,28	23,28	27,16	34,92	34,92	38,80	46,56	46,56
MAXIMUM FANS ABSORBED CURRENT	AC	A	46,80	46,80	54,60	70,20	70,20	78,00	93,60	93,60
TOTAL AIR FLOW	AC	m3/h	199461	199461	232704	299191	285249	332435	420610	402020
MAXIMUM FANS ABSORBED POWER	EC	kW	30,72	30,72	35,84	46,08	46,08	51,20	61,44	61,44
MAXIMUM FANS ABSORBED CURRENT	EC	A	46,80	46,80	54,60	70,20	70,20	78,00	93,60	93,60
TOTAL AIR FLOW	EC	m3/h	226261	226261	263971	339391	339391	377101	475792	475792
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	606,8	666,8	694,6	790,2	896,2	1032,0	1053,6	1173,6
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	1792,0	1910,0	2316,0	2562,0	3127,0	3586,0	2656,0	2934,0
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	1520,0	1622,0	1946,0	2156,0	2623,0	3012,0	2285,0	2528,0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	68,7	69,3	70,1	70,9	71,6	72,2	72,1	72,9
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	64,3	65,7	66,0	66,6	67,3	67,8	68,7	69,0
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	63,9	64,6	65,3	66,1	66,8	67,4	67,5	68,2
DIMENSIONS AND WEIGHT										
LENGTH		mm	6900	6900	7850	9750	9750	10700	13140	13140
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

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Revision: 00-2021

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 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 indipendent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

NOVAF SERIES

Freecooling liquid chillers, screw compressors
AC axial fans
IP54 protection rating
Suitable for OUTDOOR installation

SERIES: NOVA-NOVAF	DATE: 04/10/2021
CODE: TTD-NOVAF-01	UPDATE: -
CHECKED BY	M. Burba

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TEAM AIR POWER

NOVAF

TABLE 1/4

Freecooling chillers NOVAF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned core and axial fans Each model is equipped as standard with 2 refrigerant circuits, 2 compressors each with partition steps per compressor 50-75-100. Electrical feed 400V/3ph/50Hz.

Available Models configuration:
ECO.M2 = standard configuration, with AC fans with cut phase regulation, with economizer and standard compressor motor size
HE.M2 = high efficiency configuration with EC fans, optimized coil design, with economizer and standard compressor motor size
NE.M2 = chiller without economizer, with AC fans with cut phase regulation and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	663/F4***	683/F6	693/F6	773/F6	783/F8	793/F8	863/F8	873/F10
NOMINAL COOLING CAPACITY (1)	ECO.M2 (3)	kW	232	277	308	351	432	475	517	596
TOTAL NOMINAL ABSORBED POWER (1)	ECO.M2 (3)	kW	69.32	70.00	79.90	104.30	115.00	135.00	156.00	168.00
EER (1)	ECO.M2 (3)	kW/kW	3.04	3.44	3.40	3.05	3.34	3.18	3.04	3.21
AIR TEMPERATURE 100% FREE COOLING (1)	ECO.M2 (3)	°C	-1.90	0.60	-0.20	-1.40	-0.70	-1.60	-2.50	-1.90
FREECOOLING PRESSURE DROP	ECO.M2 (3)	kPa	89.90	110.90	142.90	151.50	132.70	141.10	136.00	137.00
NOMINAL WATER FLOW	ECO.M2 (3)	m3/h	40.00	47.00	52.90	60.30	74.00	81.70	89.00	102.50
EVAPORATOR PRESSURE DROP	ECO.M2 (3)	kPa	26	55	79	74	69	69	54	64
NOMINAL COOLING CAPACITY (1)	NE.M2 (3)	kW	241	286	318	366	447	494	536	620
TOTAL NOMINAL ABSORBED POWER (1)	NE.M2 (3)	kW	62.8	64.9	73.3	94.7	105.8	122.0	139.0	151.0
EER (1)	NE.M2 (3)	kW/kW	3.38	3.68	3.70	3.41	3.64	3.55	3.42	3.52
AIR TEMPERATURE 100% FREE COOLING (1)	NE.M2 (3)	°C	-4.00	-0.90	-1.90	-3.30	-2.50	-3.60	-4.70	-3.30
FREECOOLING PRESSURE DROP	NE.M2 (3)	kPa	84.60	113.30	148.90	160.10	128.70	136.30	130.80	160.80
NOMINAL WATER FLOW	NE.M2 (3)	m3/h	41.50	49.00	54.70	63.00	77.00	85.00	92.00	106.70
EVAPORATOR PRESSURE DROP	NE.M2 (3)	kPa	28	58	84	81	74	73	58	68
NOMINAL COOLING CAPACITY (1)	HE.M2 (3)	kW	203	247	277	314	386	427	449	532
TOTAL NOMINAL ABSORBED POWER (1)	HE.M2 (3)	kW	59.3	61.5	71.2	91.9	101.0	119.3	131.0	146.0
EER (1)	HE.M2 (3)	kW/kW	3.06	3.43	3.40	3.07	3.35	3.20	3.09	3.25
AIR TEMPERATURE 100% FREE COOLING (1)	HE.M2 (3)	°C	-0.70	1.50	0.60	-0.40	0.30	-0.60	-1.00	-0.80
FREECOOLING PRESSURE DROP	HE.M2 (3)	kPa	67.90	92.90	121.90	126.60	110.80	118.50	123.60	114.00
NOMINAL WATER FLOW	HE.M2 (3)	m3/h	34.00	42.50	47.70	54.00	66.00	73.50	77.30	91.60
EVAPORATOR PRESSURE DROP	HE.M2 (3)	kPa	21	45	66	61	57	56	57	52
HYDRAULIC SECTION										
WATER FLOW RANGE		m3/h	30÷60	33÷62	33÷62	42÷84	47÷94	57÷114	62÷125	72÷144
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	10.2	10.2	10.2	16.2	16.2	16.2	24.9	24.9
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)	P3 (2)	A	17.4	17.4	17.4	26.6	26.6	26.6	42.2	42.2
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	19.9	19.9	19.9	19.9	31.9	31.9	39.1	39.1
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)	P5 (2)	A	32.7	32.7	32.7	32.7	53.5	53.5	65.6	65.6
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	100	100	100	100	100	125	125	150
FAN SECTION (AXIAL)										
FANS		nr.	4	6	6	6	8	8	8	10
MAXIMUM FANS ABSORBED POWER	AC	kW	7.76	11.64	11.64	11.64	15.52	15.52	15.52	19.40
MAXIMUM FANS ABSORBED CURRENT	AC	A	15.60	23.40	23.40	23.40	31.20	31.20	31.20	39.00
TOTAL AIR FLOW	AC	m3/h	63389	95083	95083	95083	126778	126778	126778	158472
MAXIMUM FANS ABSORBED POWER	EC	kW	10.24	15.36	15.36	15.36	20.48	20.48	20.48	25.60
MAXIMUM FANS ABSORBED CURRENT	EC	A	15.60	23.40	23.40	23.40	31.20	31.20	31.20	39.00
TOTAL AIR FLOW	EC	m3/h	76528	114793	114793	114793	153057	153057	153057	229585
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	147.6	195.4	239.4	271.4	319.2	355.2	341.2	403.0
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	437.0	544.0	680.0	667.0	801.0	930.0	905.0	1075.0
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	369.0	462.0	578.0	570.0	684.0	792.0	770.0	910.0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	63.8	64.5	65.2	64.5	64.7	64.5	67.7	69.0
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	61.6	62.0	62.4	62.0	62.0	61.9	64.0	65.0
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	59.7	60.3	60.9	60.3	60.5	60.3	63.1	64.3
DIMENSIONS AND WEIGHT										
LENGTH		mm	3100	4050	4050	4050	5000	5000	5000	5950
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	2900	3800	3900	4050	4650	4800	4950	5500
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	3100	4150	4200	4350	5100	5300	5450	6100

Last update: 05/10/2021

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 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 indipendent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

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TEAM AIR POWER

NOVAF

TABLE 2/4

Freecooling chillers NOVAF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned core and axial fans Each model is equipped as standard with 2 refrigerant circuits, 2 compressors each with partition steps per compressor 50-75-100. Electrical feed 400V/3ph/50Hz.

Available Models configuration:
ECO.M2 = standard configuration, with AC fans with cut phase regulation, with economizer and standard compressor motor size
HE.M2 = high efficiency configuration with EC fans, optimized coil design, with economizer and standard compressor motor size
NE.M2 = chiller without economizer, with AC fans with cut phase regulation and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	883/F12	893/F14	963/F16	973/F18	983/F20	993/F22	973/F24
NOMINAL COOLING CAPACITY (1)	ECO.M2 (3)	kW	683	768	899	1025	1183	1321	1501
TOTAL NOMINAL ABSORBED POWER (1)		kW	179.00	198.70	244.80	268.00	321.00	361.00	406.50
EER (1)		kW/kW	3.40	3.44	3.29	3.41	3.31	3.30	3.34
AIR TEMPERATURE 100% FREE COOLING (1)		°C	-1.60	-3.40	-2.00	-2.00	-2.20	-2.30	-6.60
FREECOOLING PRESSURE DROP		kPa	148.00	142.70	127.50	138.10	148.60	154.60	145.30
NOMINAL WATER FLOW		m3/h	117.00	132.00	154.60	176.00	203.00	227.00	258.00
EVAPORATOR PRESSURE DROP		kPa	53	75	78	78	88	86	85
NOMINAL COOLING CAPACITY (1)	NE.M2 (3)	kW	703	790	931	1068	1227	1372	1531
TOTAL NOMINAL ABSORBED POWER (1)		kW	165.0	183.0	225.0	249.5	295.6	330.0	390.0
EER (1)		kW/kW	3.67	3.70	3.58	3.70	3.69	3.63	3.47
AIR TEMPERATURE 100% FREE COOLING (1)		°C	-4.00	-3.30	-3.40	-3.50	-3.70	-3.60	-5.30
FREECOOLING PRESSURE DROP		kPa	135.40	150.00	142.50	159.20	177.90	191.80	151.00
NOMINAL WATER FLOW		m3/h	120.60	176.00	160.00	183.70	211.00	236.00	263.40
EVAPORATOR PRESSURE DROP		kPa	56	79	84	84	93	92	88
NOMINAL COOLING CAPACITY (1)	HE.M2 (3)	kW	611	697	803	928	1067	1207	1358
TOTAL NOMINAL ABSORBED POWER (1)		kW	156.0	177.8	215.0	243.0	286.0	325.9	364.0
EER (1)		kW/kW	3.43	3.44	3.29	3.37	3.31	3.31	3.34
AIR TEMPERATURE 100% FREE COOLING (1)		°C	-0.50	-2.40	-1.00	-1.00	-1.20	-1.40	-5.30
FREECOOLING PRESSURE DROP		kPa	140.60	122.00	107.70	117.20	126.00	134.00	123.40
NOMINAL WATER FLOW		m3/h	105.00	120.00	138.00	159.60	183.50	207.60	233.00
EVAPORATOR PRESSURE DROP		kPa	61	62	64	65	73	73	71
HYDRAULIC SECTION									
WATER FLOW RANGE		m3/h	82÷154	82÷154	108÷200	112÷200	142÷284	144÷289	150÷301
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	24.9	24.9	24.9	NA for this cabinet size, please refer to Hitema hydro module series HYD			
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	42.4	42.4	42.4				
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39.1	39.1	39.1	NA for this cabinet size, please refer to Hitema hydro module series HYD			
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65.6	65.6	65.6				
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	150	150	200	200	200
FAN SECTION (AXIAL)									
FANS		nr.	12	14	16	18	20	22	22
MAXIMUM FANS ABSORBED POWER	AC	kW	23.28	27.16	31.04	34.92	38.80	42.68	42.68
MAXIMUM FANS ABSORBED CURRENT		A	46.80	54.60	62.40	70.20	78.00	85.80	85.80
TOTAL AIR FLOW		m3/h	179322	209209	239096	268983	298870	328757	367939
MAXIMUM FANS ABSORBED POWER	EC	kW	30.72	35.84	40.96	46.08	51.20	56.32	56.32
MAXIMUM FANS ABSORBED CURRENT		A	46.80	54.60	62.40	70.20	78.00	85.80	85.80
TOTAL AIR FLOW		m3/h	216287	252335	288383	324431	360479	396527	442548
TOTAL ELECTRIC DATA									
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	438.8	482.6	622.4	690.2	718.0	805.8	911.8
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	1238.0	1347.0	1800.0	1922.0	2328.0	2570.0	2244.0
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	1050.0	1143.0	1527.0	1634.0	1957.0	2164.0	1955.0
NOISE DATA									
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	68.1	68.4	69.2	69.4	70.2	71.0	71.7
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	64.7	64.9	65.4	65.6	66.2	66.9	68.5
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	63.6	63.9	64.5	64.8	65.5	66.2	67.2
DIMENSIONS AND WEIGHT									
LENGTH		mm	6900	7850	8800	9750	10700	11650	13140
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	6300	7400	8500	9500	10400	11400	11700
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	6900	8050	9300	10600	11500	12700	13200

Last update: 05/10/2021

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 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 indipendent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

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TEAM AIR POWER

NOVAF

TABLE 3/4

Freecooling chillers NOVAF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned core and axial fans Each model is equipped as standard with 2 refrigerant circuits, 2 compressors each with partition steps per compressor 50-75-100. Electrical feed 400V/3ph/50Hz.

Available Models configuration:
ECO.M1 = standard configuration, with AC fans with cut phase regulation, with economizer and oversized compressor motor size
HE.M1 = high efficiency configuration with EC fans, optimized coil design, 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***	683/F6	693/F6	773/F6	783/F8	793/F8	863/F8	873/F10
NOMINAL COOLING CAPACITY (1)	ECO.M1 (3)	kW	225	-	-	344	426	469	509	590
TOTAL NOMINAL ABSORBED POWER (1)		kW	90.34	-	-	135.20	144.00	166.80	208.00	222.70
EER (1)		kW/kW	2.29	-	-	2.34	2.67	2.57	2.28	2.44
AIR TEMPERATURE 100% FREE COOLING (1)		°C	1.40	-	-	1.74	2.47	1.60	0.65	1.10
FREECOOLING PRESSURE DROP		kPa	81.40	-	-	152.90	132.70	141.30	137.40	137.10
NOMINAL WATER FLOW		m3/h	38.70	-	-	59.17	73.27	80.67	87.55	101.48
EVAPORATOR PRESSURE DROP		kPa	19	-	-	60	65	64	53	59
NOMINAL COOLING CAPACITY (6)	NE.M1 (3)	kW	239	-	-	366	448	493	540	621
TOTAL NOMINAL ABSORBED POWER (6)		kW	81.6	-	-	121.8	140.0	160.8	185.2	198.0
EER (6)		kW/kW	2.60	-	-	2.67	2.79	2.72	2.63	2.78
AIR TEMPERATURE 100% FREE COOLING (1)		°C	-0.71	-	-	-0.19	0.55	-0.46	-1.52	-0.22
FREECOOLING PRESSURE DROP		kPa	84.60	-	-	161.00	128.80	137.50	132.10	160.80
NOMINAL WATER FLOW		m3/h	41.11	-	-	62.95	77.06	84.80	92.88	106.81
EVAPORATOR PRESSURE DROP		kPa	20	-	-	65	70	69	56	64
NOMINAL COOLING CAPACITY (1)	HE.M1 (3)	kW	266	-	-	406	501	546	577	685
TOTAL NOMINAL ABSORBED POWER (1)		kW	68.2	-	-	104.4	117.2	139.6	152.0	168.0
EER (1)		kW/kW	3.50	-	-	3.50	3.77	3.52	3.44	3.66
AIR TEMPERATURE 100% FREE COOLING (1)		°C	5.20	-	-	5.70	6.60	5.50	5.00	5.30
FREECOOLING PRESSURE DROP		kPa	67.90	-	-	127.60	111.50	119.50	125.80	114.00
NOMINAL WATER FLOW		m3/h	32.68	-	-	49.88	61.55	67.08	70.89	84.16
EVAPORATOR PRESSURE DROP		kPa	10	-	-	53	43	57	42	51
HYDRAULIC SECTION										
WATER FLOW RANGE		m3/h	30÷60	-	-	42÷84	47÷94	57÷114	62÷125	72÷144
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	10.2	-	-	16.2	16.2	16.2	24.9	24.9
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	17.4	-	-	26.6	26.6	26.6	42.2	42.2
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	19.9	-	-	19.9	31.9	31.9	39.1	39.1
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32.7	-	-	32.7	53.5	53.5	65.6	65.6
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	100	-	-	100	100	125	125	150
FAN SECTION (AXIAL)										
FANS		nr.	4	-	-	6	8	8	8	10
MAXIMUM FANS ABSORBED POWER	AC	kW	7.76	-	-	11.64	15.52	15.52	15.52	19.40
MAXIMUM FANS ABSORBED CURRENT		A	15.60	-	-	23.40	31.20	31.20	31.20	39.00
TOTAL AIR FLOW		m3/h	63389	-	-	95083	126778	126778	126778	158472
MAXIMUM FANS ABSORBED POWER	EC	kW	10.24	-	-	15.36	20.48	20.48	20.48	25.60
MAXIMUM FANS ABSORBED CURRENT		A	15.60	-	-	23.40	31.20	31.20	31.20	39.00
TOTAL AIR FLOW		m3/h	76528	-	-	114793	153057	153057	153057	229585
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	232.0	-	-	347.0	371.0	391.0	463.0	531.0
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	667.0	-	-	926.0	1044.0	1151.0	1259.0	1385.0
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	565.0	-	-	789.0	866.0	973.0	1070.0	1180.0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	65.2	-	-	64.5	69.0	69.0	67.9	68.2
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	62.4	-	-	61.9	65.0	65.0	64.2	64.4
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	60.9			60.3	64.3	64.3	63.3	63.6
DIMENSIONS AND WEIGHT										
LENGTH		mm	3100	-	-	4050	5000	5000	5000	5950
WIDTH		mm	2210	-	-	2210	2210	2210	2210	2210
HEIGHT		mm	2500	-	-	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	2900	-	-	4050	4650	4800	4950	5500
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	3100			4350	5100	5300	5450	6100

Last update: 05/10/2021

Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +45°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 indipendent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

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TEAM AIR POWER

NOVAF

TABLE 4/4

Freecooling chillers NOVAF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned core and axial fans Each model is equipped as standard with 2 refrigerant circuits, 2 compressors each with partition steps per compressor 50-75-100. Electrical feed 400V/3ph/50Hz.

Available Models configuration:
ECO.M1 = standard configuration, with AC fans with cut phase regulation, with economizer and oversized compressor motor size
HE.M1 = high efficiency configuration with EC fans, optimized coil design, 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	883/F12	893/F14	963/F16	973/F18	983/F20	993/F22	973/F24
NOMINAL COOLING CAPACITY (1)	ECO.M1 (3)	kW	667	775	872	994	1147	1280	1457
TOTAL NOMINAL ABSORBED POWER (1)		kW	241.20	260.00	314.60	351.40	397.00	454.00	507.50
EER (1)		kW/kW	2.52	2.70	2.52	2.57	2.63	2.58	2.65
AIR TEMPERATURE 100% FREE COOLING (1)		°C	1.60	1.25	1.28	1.35	1.07	0.50	1.20
FREECOOLING PRESSURE DROP		kPa	144.00	143.80	127.40	135.60	144.90	154.60	141.70
NOMINAL WATER FLOW		m3/h	114.73	133.30	149.99	170.97	197.29	220.16	250.61
EVAPORATOR PRESSURE DROP		kPa	55	69	69	64	69	74	79
NOMINAL COOLING CAPACITY (6)	NE.M1 (3)	kW	694	803	917	1045	1169	1315	1472
TOTAL NOMINAL ABSORBED POWER (6)		kW	236.0	238.0	288.0	320.0	385.4	438.0	495.0
EER (6)		kW/kW	2.60	2.93	2.79	2.85	2.68	2.66	2.67
AIR TEMPERATURE 100% FREE COOLING (1)		°C	-0.75	-0.47	-0.12	-0.05	2.20	1.35	1.00
FREECOOLING PRESSURE DROP		kPa	131.90	150.00	141.40	153.80	173.20	191.80	147.10
NOMINAL WATER FLOW		m3/h	119.37	138.12	157.73	179.74	201.07	226.18	253.19
EVAPORATOR PRESSURE DROP		kPa	49	72	72	68	74	80	88
NOMINAL COOLING CAPACITY (1)	HE.M1 (3)	kW	757	855	968	1120	1277	1488	1670
TOTAL NOMINAL ABSORBED POWER (1)		kW	168.2	195.5	232.0	267.3	305.2	340.0	395.0
EER (1)		kW/kW	3.95	3.84	3.68	3.71	3.71	3.89	3.82
AIR TEMPERATURE 100% FREE COOLING (1)		°C	6.07	4.00	5.91	5.84	5.60	5.75	5.60
FREECOOLING PRESSURE DROP		kPa	136.20	122.00	109.50	113.50	120.50	134.00	119.50
NOMINAL WATER FLOW		m3/h	93.00	105.04	118.93	137.60	156.89	182.81	205.17
EVAPORATOR PRESSURE DROP		kPa	47	45	49	41	62	68	70
HYDRAULIC SECTION									
WATER FLOW RANGE		m3/h	82÷154	82÷154	108÷200	112÷200	142÷284	144÷289	150÷301
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	24.9	24.9	24.9	NA for this cabinet size, please refer to Hitema hydro module series HYD			
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	42.4	42.2	42.2				
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39.1	39.1	39.1	NA for this cabinet size, please refer to Hitema hydro module series HYD			
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65.6	65.6	65.6				
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	150	150	200	200	200
FAN SECTION (AXIAL)									
FANS		nr.	12	14	16	18	20	22	22
MAXIMUM FANS ABSORBED POWER	AC	kW	23.28	27.16	31.04	34.92	38.80	42.68	42.68
MAXIMUM FANS ABSORBED CURRENT		A	46.80	54.60	62.40	70.20	78.00	85.80	85.80
TOTAL AIR FLOW		m3/h	179322	209209	239096	268983	298870	328757	367939
MAXIMUM FANS ABSORBED POWER	EC	kW	30.72	35.84	40.96	46.08	51.20	56.32	56.32
MAXIMUM FANS ABSORBED CURRENT		A	46.80	54.60	62.40	70.20	78.00	85.80	85.80
TOTAL AIR FLOW		m3/h	216287	252335	288383	324431	360479	396527	442548
TOTAL ELECTRIC DATA									
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	567.0	675.0	802.0	910.0	978.0	986.0	1354.0
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	1497.0	1642.0	2378.0	2649.0	3179.0	3183.0	3081.0
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	1275.0	1406.0	2008.0	2243.0	2675.0	2679.0	2675.0
NOISE DATA									
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	69.2	69.4	70.2	71.0	71.7	71.7	73.1
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	65.5	65.6	66.2	66.9	67.5	67.5	69.5
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	64.6	64.8	65.5	66.2	66.9	66.9	68.5
DIMENSIONS AND WEIGHT									
LENGTH		mm	6900	7850	8800	9750	10700	11650	13140
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	6300	7400	8500	9500	10400	11400	11700
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	6900	8050	9300	10600	11500	12700	13200

Last update: 05/10/2021

Revision: #RIF!

Data referred to:
(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +45°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 indipendent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

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