



TEAM
AIR POWER

HNR SERIES



DISCOVER HITEMA® CUSTOMIZED APPLICATIONS

choose your customized configuration



ENR/ENRF SERIES
1,6kW ÷ 440kW

CSE SERIES
30kW ÷ 377kW

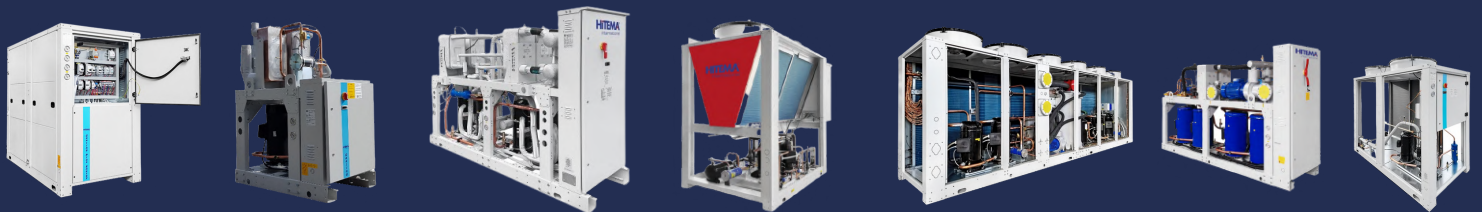
CFT SERIES
7,9kW ÷ 410kW

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

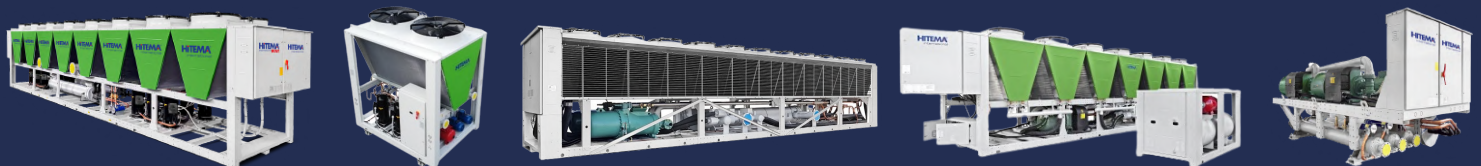
HFT SERIES
16kW ÷ 345kW

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

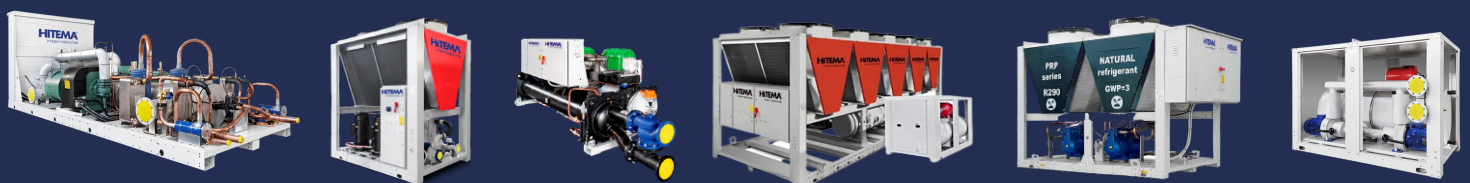
SBS-MC SERIES
95kW ÷ 180kW

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

HNR SERIES

*Reversible Heat Pumps
AC axial fans with RV
IP54 protection rating
Suitable for OUTDOOR installation*



SERIES: ENR-ENRF-CSE	DATE: 20.02.2020
CODE: GPLSPC20	UPDATE: GPLSPC19
CHECKED BY:	M. Burba



Reversible heat-pumps HNR series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard.
Minimum working ambient temperature admitted = -5°C

Special features of HNR series:

CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage tank, guarantee high operation reliability

 **HEATING**

TECHNICAL DATA

PERFORMANCES		Model	016	018	022	025	030	038	045	055
NOMINAL HEATING CAPACITY	W 40°C/45°C @ 7°C (1)	kW	16,4	18,5	25,3	28,2	31,2	38,1	46,4	57,7
TOTAL NOMINAL ABSORBED POWER		kW	5,9	6,4	8,5	9,3	11,5	14,5	16,4	19,9
COP		kW/kW	2,78	2,88	2,98	3,02	2,72	2,63	2,83	2,90
SCOP (3)		-	2,02	2,09	2,17	2,20	2,49	2,45	2,86	2,93
NOMINAL WATER FLOW		m ³ /h	2,8	3,2	4,4	4,8	5,4	6,6	8,0	9,9
MECHANICAL MODE PRESSURE DROPS (4)		kPa	41	53	42	52	34	51	39	51
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.		1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m ³ /h	1,2÷2,9	2,5÷5	3÷6	3÷6	4÷6	5÷12	6÷12	6÷12
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,98	0,98	1,28	1,28	1,28	2,20	2,20	2,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	1,78	1,78	2,37	2,37	2,37	4,24	4,24	4,24
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	1,10	1,47	1,47	1,47	1,47	2,94	2,94	2,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,17	2,86	2,86	2,86	2,32	5,83	5,83	5,83
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
TANK VOLUME		dm ³	50	110	110	110	270	270	270	270
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	5	8	8	8	12	12	12	12
FAN SECTION (AXIAL)										
FANS		nr.	1	1	2	2	2	2	2	2
MAXIMUM FANS ABSORBED POWER	AC	kW	0,68	0,68	1,44	1,44	1,44	1,62	1,44	1,62
MAXIMUM FANS ABSORBED CURRENT		A	3,00	3,00	2,82	2,82	2,82	3,08	2,82	3,08
TOTAL AIR FLOW		m ³ /h	7649	7649	15298	15298	15298	16200	14267	15000
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50/N	400/3/50/N	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	14,9	16,8	19,5	21,8	25,3	31,8	37,1	45,5
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	68,8	79,8	100,2	116,2	144,2	147,3	181,1	248,1
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	NA	NA	NA	NA	NA	NA	NA	NA
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	49,7	49,5	53,0	53,5	53,3	53,2	54,3	56,6
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	NA	NA	NA	NA	52,9	52,2	53,3	53,9
DIMENSIONS AND WEIGHT										
LENGTH		mm	1005	1005	1610	1610	1610	1610	1610	1610
WIDTH		mm	855	855	860	860	860	860	860	860
HEIGHT		mm	1540	1540	1550	1550	1550	1550	1550	1550
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	190	230	270	270	400	425	437	523
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	240	360	399	399	699	724	736	822

The manufacturer reserves the right to modify specifications without notice.

Last update: 16/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SCOP data comply with the EN14825:2013, referring to medium temperature climate zone
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

Reversible heat-pumps HNR series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard.
Minimum working ambient temperature admitted = -5°C

Special features of HNR series:

CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage tank, guarantee high operation reliability

 **HEATING**

TECHNICAL DATA

PERFORMANCES		Model	061	075	090	100
NOMINAL HEATING CAPACITY	W 40°C/45°C @ 7°C (1)	kW	65,1	77,4	91,3	104,2
TOTAL NOMINAL ABSORBED POWER		kW	23,7	27,8	31,6	35,2
COP		kW/kW	2,75	2,78	2,89	2,96
SCOP (3)		-	#RIF!	2,80	2,90	3,14
NOMINAL WATER FLOW		m ³ /h	11,2	13,3	15,7	17,9
MECHANICAL MODE PRESSURE DROPS (4)		kPa	23	20	28	39
FRIGORIFIC SECTION						
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	2/1/2	2/1/2	2/1/2	2/1/2
HYDRAULIC SECTION						
WATER FLOW RANGE (6)		m ³ /h	8÷18	10÷20	10÷20	10÷20
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,53	2,53	2,53	2,53
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,56	4,56	4,56	4,56
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	6,12	6,12	6,12
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	10,40	10,40	10,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	2"	2"	2"	2"
TANK VOLUME		dm ³	410	410	410	410
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	19	19	19	19
FAN SECTION (AXIAL)						
FANS		nr.	2	2	2	2
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	3,88	3,88	3,88
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	7,80
TOTAL AIR FLOW		m ³ /h	33096	36858	34534	32211
TOTAL ELECTRIC DATA						
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	52,6	61,4	72,4	80,6
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	171,5	176,9	216,4	283,2
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	143,7	148,9	181,6	235,0
NOISE DATA						
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	54,5	55,6	56,4	58,3
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	54,0	54,4	55,2	56,1
DIMENSIONS AND WEIGHT						
LENGTH		mm	2220	2220	2220	2220
WIDTH		mm	1100	1100	1100	1100
HEIGHT		mm	2120	2120	2120	2120
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	780	820	850	943
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	1198	1238	1268	1360

The manufacturer reserves the right to modify specifications without notice.

Last update: 16/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SCOP data comply with the EN14825:2013, referring to medium temperature climate zone
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

Reversible heat-pumps HNR series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard.
Minimum working ambient temperature admitted = -5°C

Special features of HNR series:

CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage tank, guarantee high operation reliability



TECHNICAL DATA

PERFORMANCES		Model	016	018	022	025	030	038	045	055
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	14,7	17,2	23,0	25,6	28,2	34,2	42,7	53,0
TOTAL NOMINAL ABSORBED POWER		kW	5,7	6,7	8,5	9,4	11,0	14,8	15,8	20,0
EER		kW/kW	2,56	2,59	2,72	2,73	2,57	2,30	2,70	2,66
SEPR (HT) (3)		-	4,17	3,78	3,86	3,98	4,30	3,84	4,48	4,47
NOMINAL WATER FLOW (5)		m ³ /h	2,7	3,2	4,0	4,6	5,5	6,7	8,2	10,2
MECHANICAL MODE PRESSURE DROPS (4)		kPa	38	30	35	48	38	42	45	57
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m ³ /h	1,2÷2,9	2,5÷5	3÷6	3÷6	4÷6	5÷12	6÷12	6÷12
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,98	0,98	1,28	1,28	1,28	2,20	2,20	2,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	1,78	1,78	2,37	2,37	2,37	4,24	4,24	4,24
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	1,10	1,47	1,47	1,47	1,47	2,94	2,94	2,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,17	2,86	2,86	2,86	2,32	5,83	5,83	5,83
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
TANK VOLUME (5)		dm ³	50	110	110	110	270	270	270	270
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	5	8	8	8	12	12	12	12
FAN SECTION (AXIAL)										
FANS		nr.	1	1	2	2	2	2	2	2
MAXIMUM FANS ABSORBED POWER	AC	kW	0,68	0,68	1,44	1,44	1,44	1,62	1,44	1,62
MAXIMUM FANS ABSORBED CURRENT		A	3,00	3,00	2,82	2,82	2,82	3,08	2,82	3,08
TOTAL AIR FLOW		m ³ /h	7298	7298	15298	15298	15298	16200	14267	15000
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50/N	400/3/50/N	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	14,9	16,8	19,5	21,8	25,3	31,8	37,1	45,5
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	68,8	79,8	100,2	116,2	144,2	147,3	181,1	248,1
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	NA	NA	NA	NA	NA	NA	NA	NA
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	49,7	49,5	53,0	53,5	53,3	53,2	54,3	56,6
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	NA	NA	NA	NA	52,9	52,2	53,3	53,9
DIMENSIONS AND WEIGHT										
LENGTH		mm	1005	1005	1610	1610	1610	1610	1610	1610
WIDTH		mm	855	855	860	860	860	860	860	860
HEIGHT		mm	1540	1540	1550	1550	1550	1550	1550	1550
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	190	230	270	270	400	425	437	523
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	240	360	399	399	699	724	736	822

The manufacturer reserves the right to modify specifications without notice.

Last update: 16/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

Reversible heat-pumps HNR series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard.
Minimum working ambient temperature admitted = -5°C

Special features of HNR series:

CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage tank, guarantee high operation reliability



TECHNICAL DATA

PERFORMANCES		Model	061	075	090	100
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	62,2	69,9	83,3	95,6
TOTAL NOMINAL ABSORBED POWER		kW	21,7	27,8	31,3	34,7
EER		kW/kW	2,87	2,51	2,66	2,76
SEPR (HT) (3)		-	4,03	4,49	4,44	4,68
NOMINAL WATER FLOW (5)		m ³ /h	10,7	13,7	16,1	18,4
MECHANICAL MODE PRESSURE DROPS (4)		kPa	25	30	35	46
FRIGORIFIC SECTION						
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	2/1/2	2/1/2	2/1/2	2/1/2
HYDRAULIC SECTION						
WATER FLOW RANGE (6)		m ³ /h	8÷18	10÷20	10÷20	10÷20
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,53	2,53	2,53	2,53
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,56	4,56	4,56	4,56
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	6,12	6,12	6,12
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	10,40	10,40	10,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	2"	2"	2"	2"
TANK VOLUME (5)		dm ³	410	410	410	410
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	19	19	19	19
FAN SECTION (AXIAL)						
FANS		nr.	2	2	2	2
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	3,88	3,88	3,88
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	7,80
TOTAL AIR FLOW		m ³ /h	24541	36858	34534	32211
TOTAL ELECTRIC DATA						
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	52,6	61,4	72,4	80,6
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	171,5	176,9	216,4	283,2
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	143,7	148,9	181,6	235,0
NOISE DATA						
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	54,5	55,6	56,4	58,3
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	54,0	54,4	55,2	56,1
DIMENSIONS AND WEIGHT						
LENGTH		mm	2220	2220	2220	2220
WIDTH		mm	1100	1100	1100	1100
HEIGHT		mm	2120	2120	2120	2120
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	780	820	850	943
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	1198	1238	1268	1360

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Last update: 16/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

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