



TEAM  
AIR POWER

ENR SERIES



# DISCOVER HITEMA® CUSTOMIZED APPLICATIONS

choose your customized configuration



**ENR/ENRF SERIES**  
1,6kW ÷ 440kW

**CSE SERIES**  
30kW ÷ 377kW

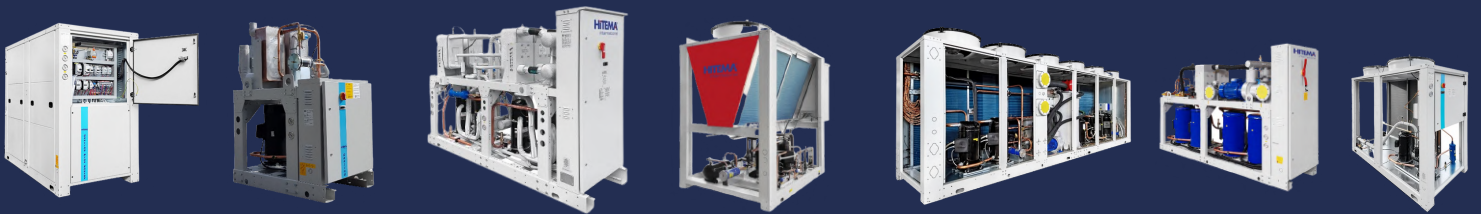
**CFT SERIES**  
7,9kW ÷ 410kW

**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

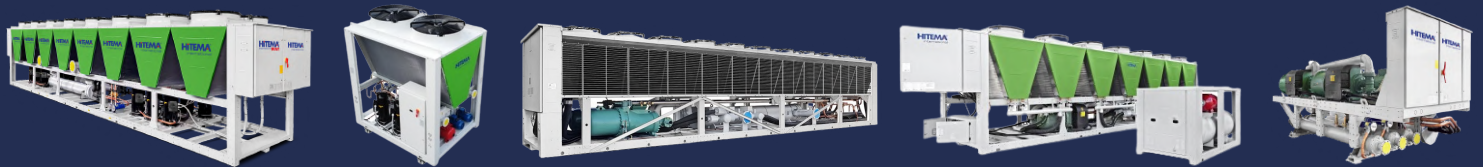
**HFT SERIES**  
16kW ÷ 345kW

**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

# ENR SERIES

*Air-Cooled liquid Chillers*  
*AC axial fans*  
*IP54 protection rating*  
*Suitable for OUTDOOR installation*



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



**Air-cooled liquid chillers ENR series, rotary / scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / coaxial / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.**

Type of available evaporators:  
CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger installed inside the water storage tank  
ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)  
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements  
CP = Capillary tube  
VTS = Thermostatic expansion valve  
ETS = Electronic expansion valve (available as option)

**TECHNICAL DATA**

<b>PERFORMANCES</b>		Model	001	002	003	004	005	006	008	010
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	1,6	2,1	3,9	4,7	5,6	6,3	7,9	9,3
TOTAL NOMINAL ABSORBED POWER		kW	1,1	1,4	1,8	2,1	2,4	2,8	3,8	4,6
EER		kW/kW	2,81	2,59	3,21	3,16	3,08	2,87	2,77	2,55
SEPR (HT) (3)		-	5,01	5,07	5,05	5,03	5,03	5,04	5,05	5,00
NOMINAL WATER FLOW		m3/h	0,3	0,4	0,7	0,8	1,0	1,1	1,4	1,6
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	20	22	20	23	23	37	26	25
<b>FRIGORIFIC SECTION</b>										
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	1/1/1
KIND OF COMPRESSOR	-	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	SCROLL	SCROLL
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	CX	CX
KIND OF EXPANSION ELEMENT	-	CP	CP	CP	CP	CP	CP	CP	VTS	VTS
<b>HYDRAULIC SECTION</b>										
WATER FLOW RANGE (6)	m3/h	0,25÷2,0	0,30÷2,0	0,60÷2,2	0,60÷2,2	0,80÷2,2	0,80÷2,2	1,20÷3,0	1,40÷3,0	1,40÷3,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,56	0,56	0,56	0,56	0,56	0,56	0,98	0,98
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	3,46	3,46	3,46	3,46	3,46	3,46	1,78	1,78
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	NA	NA	0,74	0,74	0,74	0,74	1,10	1,10
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	NA	NA	3,22	3,22	3,22	3,22	2,17	2,17
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1"	1"	
TANK VOLUME (5) (8)	dm³	10	10	25	25	25	25	50	50	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	NA	NA	NA	NA	NA	NA	5	5	
<b>FAN SECTION (AXIAL)</b>										
FANS	nr.	1	1	1	1	1	1	1	1	1
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF
MAXIMUM FANS ABSORBED POWER	AC	kW	0,07	0,11	0,10	0,10	0,10	0,10	0,25	0,25
MAXIMUM FANS ABSORBED CURRENT		A	0,40	0,80	0,50	0,50	0,50	0,50	1,10	1,10
TOTAL AIR FLOW		m3/h	700	650	1800	1800	1580	1580	4100	4100
<b>TOTAL ELECTRIC DATA</b>										
ELECTRICAL FEED	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50/N	400/3/50/N	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	6,1	7,5	10,8	12,4	14,4	16,7	10,2	10,5	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	16,0	21,0	27,5	39,5	46,5	57,5	50,0	50,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	NA	NA	NA	NA	NA	
<b>NOISE DATA</b>										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	50,0	50,0	50,3	51,6	53,0	54,7	51,4	51,4	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	NA	NA	NA	NA	NA	NA	NA	NA	
<b>DIMENSIONS AND WEIGHT</b>										
LENGTH	mm	445	445	600	600	600	600	820	820	
WIDTH	mm	440	440	725	725	725	725	615	615	
HEIGHT	mm	806	806	1060	1060	1060	1060	1415	1415	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	55	55	90	95	95	100	160	165	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	65	65	115	120	120	125	210	215	

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021  
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) 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) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (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
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

\* For the configuration DPH (double pump P5) the chiller width will be 1305mm

\*\* For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

**Air-cooled liquid chillers ENR series, rotary / scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / coaxial / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.**

Type of available evaporators:  
CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger installed inside the water storage tank  
ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)  
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements  
CP = Capillary tube  
VTS = Thermostatic expansion valve  
ETS = Electronic expansion valve (available as option)

**TECHNICAL DATA**

<b>PERFORMANCES</b>		<b>Model</b>	<b>012</b>	<b>016</b>	<b>018</b>	<b>022</b>	<b>025</b>	<b>030</b>	<b>038</b>	<b>045</b>
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	12,2	13,5	18,0	22,0	25,0	31,0	37,0	45,0
TOTAL NOMINAL ABSORBED POWER		kW	5,4	6,7	7,5	8,8	9,9	11,1	15,3	16,0
EER		kW/kW	2,78	2,37	2,78	2,93	2,90	3,15	2,82	3,25
SEPR (HT) (3)		-	5,03	5,05	5,00	5,02	5,00	5,05	5,03	5,07
NOMINAL WATER FLOW		m <sup>3</sup> /h	2,1	2,3	3,1	3,8	4,3	5,3	6,4	7,7
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	27	28	28	31	42	34	34	39
<b>FRIGORIFIC SECTION</b>										
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	1/1/1
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
KIND OF EVAPORATOR	-	CX	CX	CX	CX	CX	CX	CX	CX	CX
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS
<b>HYDRAULIC SECTION</b>										
WATER FLOW RANGE (6)	m <sup>3</sup> /h	1,20÷2,9	1,20÷2,9	2,5÷5,0	3,0÷6,0	3,0÷6,0	4,0÷6,0	5,0÷12,0	6,0÷12,0	6,0÷12,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,98	0,98	0,98	1,28	1,28	1,28	2,20	2,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	1,78	1,78	1,78	2,37	2,37	2,37	4,24	4,24
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	1,10	1,10	1,47	1,47	1,47	1,47	2,94	2,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,17	2,17	2,86	2,86	2,86	2,32	5,83	5,83
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1"	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	
TANK VOLUME (5) (8)	dm <sup>3</sup>	50	50	110	110	110	270	270	270	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	5	5	8	8	8	8	8	8	
<b>FAN SECTION (AXIAL)</b>										
FANS	nr.	1	1	1	1	1	2	2	2	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	
MAXIMUM FANS ABSORBED POWER	AC	kW	0,49	0,49	0,68	0,81	0,81	1,44	1,62	1,44
MAXIMUM FANS ABSORBED CURRENT		A	2,40	2,40	3,00	1,50	1,50	2,82	3,08	2,82
TOTAL AIR FLOW		m <sup>3</sup> /h	4750	4750	6500	6800	6800	16000	16400	15000
<b>TOTAL ELECTRIC DATA</b>										
ELECTRICAL FEED	V/ph/Hz	400/3/50/N	400/3/50/N	400/3/50/N	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	13,3	13,9	18,8	19,8	21,1	25,3	31,8	37,1	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	71,0	71,0	75,0	104,0	127,4	141,4	144,2	178,2	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	NA	NA	NA	NA	NA	
<b>NOISE DATA</b>										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	52,2	52,2	53,3	55,8	55,4	55,3	57,5	55,8	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	NA	NA	NA	NA	NA	54,3	57,2	54,5	
<b>DIMENSIONS AND WEIGHT</b>										
LENGTH	mm	820	820	1010	1010	1010	1610	1610	1610	
WIDTH	mm	615	615	720	720	720	860	860	860	
HEIGHT	mm	1415	1415	1585	1585	1585	1550	1550	1550	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	170	175	210	250	250	375	390	410	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	220	225	340	380	380	675	690	710	

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021  
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) 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) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (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
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

\* For the configuration DPH (double pump P5) the chiller width will be 1305mm

\*\* For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

**Air-cooled liquid chillers ENR series, rotary / scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / coaxial / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.**

Type of available evaporators:  
CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger installed inside the water storage tank  
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Type of available expansion elements  
CP = Capillary tube  
VTS = Thermostatic expansion valve  
ETS = Electronic expansion valve (available as option)

**TECHNICAL DATA**

<b>PERFORMANCES</b>		<b>Model</b>	<b>055</b>	<b>061</b>	<b>075</b>	<b>090</b>	<b>100</b>	<b>130</b>	<b>160</b>	<b>185</b>
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	55,0	63,0	72,0	88,0	100,0	115,0	150,0	170,0
TOTAL NOMINAL ABSORBED POWER		kW	21,1	22,6	28,8	31,6	35,5	44,0	56,0	62,8
EER		kW/kW	2,91	3,14	2,74	3,03	3,03	2,92	2,92	2,92
SEPR (HT) (3)		-	5,03	5,04	5,05	5,03	5,06	5,07	5,02	5,00
NOMINAL WATER FLOW		m3/h	9,4	10,8	12,4	15,1	17,2	19,8	25,8	29,2
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	51	25	20	28	39	54	54	55
<b>FRIGORIFIC SECTION</b>										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4	4/2/4	4/2/4	
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR	-	CX	CX	CX	CX	CX	ST	ST	ST	
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	
<b>HYDRAULIC SECTION</b>										
WATER FLOW RANGE (6)	m3/h	6÷12	8÷18	10÷20	10÷20	10÷20	14÷27	15÷31	18÷35	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,20	2,53	2,53	2,53	2,53	4,56	4,56	4,56
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,24	4,56	4,56	4,56	4,56	7,75	7,75	7,75
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	2,94	6,12	6,12	6,12	6,12	10,20	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	5,83	10,40	10,40	10,40	10,40	17,40	17,40	17,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1 1/2"	2"	2"	2"	2"	DN65	DN65	DN65	
TANK VOLUME (5) (8)	dm³	270	410	410	410	410	390	390	390	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	8	12	12	12	12	19	19	19	
<b>FAN SECTION (AXIAL)</b>										
FANS	nr.	2	2	2	2	2	2	3	3	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	
MAXIMUM FANS ABSORBED POWER	AC	kW	1,62	3,88	3,88	3,88	3,88	3,88	5,82	5,82
MAXIMUM FANS ABSORBED CURRENT		A	3,08	7,80	7,80	7,80	7,80	7,80	11,70	11,70
TOTAL AIR FLOW		m3/h	15600	25000	36000	34000	32000	40000	57000	54000
<b>TOTAL ELECTRIC DATA</b>										
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	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	43,8	52,6	61,4	72,4	78,8	96,1	117,5	139,5	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	229,2	171,5	176,9	216,4	267,4	214,9	233,0	283,5	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	143,7	148,9	181,6	222,4	187,1	205,0	248,7	
<b>NOISE DATA</b>										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	58,8	58,9	59,3	59,5	60,3	59,2	61,1	61,4	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LN.J) (6) (7)	dB(A)	57,6	58,7	58,9	58,9	59,2	58,8	60,5	60,6	
<b>DIMENSIONS AND WEIGHT</b>										
LENGTH	mm	1610	2220	2220	2220	2220	3355	3355	3355	
WIDTH	mm	860	1100	1100	1100	1100	1105*	1105*	1105*	
HEIGHT	mm	1550	2120	2120	2120	2120	2205	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	500	740	770	785	890	1190	1260	1320	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	800	1160	1190	1205	1310	1610	1695	1760	

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021  
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) 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) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (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
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

\* For the configuration DPH (double pump P5) the chiller width will be 1305mm

\*\* For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

**Air-cooled liquid chillers ENR series, rotary / scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / coaxial / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.**

Type of available evaporators:  
CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger installed inside the water storage tank  
ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)  
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements  
CP = Capillary tube  
VTS = Thermostatic expansion valve  
ETS = Electronic expansion valve (available as option)

**TECHNICAL DATA**

<b>PERFORMANCES</b>		<b>Model</b>	<b>200</b>	<b>230</b>	<b>280</b>	<b>340</b>	<b>370</b>	<b>430</b>
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	204,3	227,0	277,0	319,0	365,0	410,0
TOTAL NOMINAL ABSORBED POWER		kW	71,3	84,8	103,2	115,8	129,8	146,8
EER		kW/kW	3,24	2,97	2,92	2,97	3,05	3,00
SEPR (HT) (3)		-	5,00	5,02	5,03	5,07	5,07	5,51
NOMINAL WATER FLOW		m3/h	35,1	39,0	47,6	54,8	62,7	70,4
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	38	56	56	48	55	61
<b>FRIGORIFIC SECTION</b>								
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	
<b>HYDRAULIC SECTION</b>								
WATER FLOW RANGE (6)	m3/h	25÷46	25÷46	31÷58	38÷70	45÷80	52÷100	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	8,30	8,30	8,30	8,30	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	14,10	14,10	14,10	14,10	17,40	17,40
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,22	16,22	16,22	16,22	16,22	19,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	26,60	26,60	26,60	26,60	32,70
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	DN80	DN80	DN100	DN100	DN100	DN125	
TANK VOLUME (5) (8)	dm³	390	500	500	500	500	500	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	19	19	19	19	19	19	
<b>FAN SECTION (AXIAL)</b>								
FANS	nr.	4	5	5	5	6	6	
FAN SPEED REGULATION	-	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	
MAXIMUM FANS ABSORBED POWER	AC	kW	7,76	9,70	9,70	9,70	11,64	11,64
MAXIMUM FANS ABSORBED CURRENT		A	15,60	19,50	19,50	19,50	23,40	23,40
TOTAL AIR FLOW		m3/h	68800	91000	90000	85000	102000	96000
<b>TOTAL ELECTRIC DATA</b>								
ELECTRICAL FEED	V/ph/Hz	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	162,6	179,4	212,0	241,4	278,0	307,0	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	351,1	367,9	439,4	492,1	528,7	641,2	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	306,1	322,9	385,0	430,1	466,7	559,6	
<b>NOISE DATA</b>								
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	63,1	64,3	65,7	65,7	66,1	67,5	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	62,0	63,1	63,7	63,7	64,4	65,1	
<b>DIMENSIONS AND WEIGHT</b>								
LENGTH	mm	4355	5350	5350	5350	6350	6350	
WIDTH	mm	1105**	1105	1105	1105	1105	1105	
HEIGHT	mm	2205	2205	2205	2205	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	1815	2105	2240	2415	2745	2810	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	2275	2660	2800	2995	3345	3420	

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021  
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) 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) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (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
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

\* For the configuration DPH (double pump P5) the chiller width will be 1305mm

\*\* For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

**Air-cooled liquid chillers ENR series, scroll compressors, R513A refrigerant, brazed plate / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.**

Type of available evaporators:  
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements  
VTS = Thermostatic expansion valve  
ETS = Electronic expansion valve (available as option)

**TECHNICAL DATA**

<b>PERFORMANCES</b>		Model	010	016	022	030	045	061	075	090
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	6,5	10,0	13,5	18,7	28,0	37,0	46,0	55,0
TOTAL NOMINAL ABSORBED POWER		kW	3,0	4,8	5,9	8,2	11,0	17,3	20,5	23,3
EER		kW/kW	2,67	2,64	2,75	2,72	2,89	2,46	2,51	2,65
SEPR (HT) (3)		-	5,00	5,05	5,02	5,05	5,07	5,04	5,05	5,03
NOMINAL WATER FLOW		m <sup>3</sup> /h	1,1	1,7	2,3	3,2	4,8	6,4	7,9	9,4
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	29	31	27	20	21	25	20	25
<b>FRIGORIFIC SECTION</b>										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	2/1/2	2/1/2	2/1/2	
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	
<b>HYDRAULIC SECTION</b>										
WATER FLOW RANGE (6)	m <sup>3</sup> /h	0,80÷2,2	1,20÷2,9	2,5÷5,0	3,0÷6,0	4,0÷6,0	6÷12	6÷12	8÷18	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,56	0,98	0,98	1,28	1,28	2,20	2,20	2,53
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	3,46	1,78	1,78	2,37	2,37	4,24	4,24	4,56
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	0,74	1,10	1,10	1,47	1,47	2,94	2,94	6,12
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	3,22	2,17	2,17	2,32	2,32	5,83	5,83	10,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1/2"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	
TANK VOLUME (5) (8)	dm <sup>3</sup>	50	50	110	270	270	410	410	410	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	5	5	8	8	8	12	12	12	
<b>FAN SECTION (AXIAL)</b>										
FANS	nr.	1	1	1	2	2	2	2	2	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	
MAXIMUM FANS ABSORBED POWER	AC	kW	0,25	0,49	0,81	1,44	1,44	3,88	3,88	3,88
MAXIMUM FANS ABSORBED CURRENT		A	1,10	2,40	1,50	2,82	2,82	7,80	7,80	7,80
TOTAL AIR FLOW		m <sup>3</sup> /h	4100	4750	6800	16000	15000	25000	36000	34000
<b>TOTAL ELECTRIC DATA</b>										
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	11,1	15,3	14,5	24,5	37,1	50,7	64,5	76,1	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	53,5	75,8	103,8	120,4	176,4	141,6	170,5	210,4	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	99,6	144,4	125,8	150,3	183,4	
<b>NOISE DATA</b>										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	48,0	48,8	50,5	54,8	57,1	59,1	59,9	60,9	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	NA	NA	NA	54,3	55,3	58,8	59,1	59,5	
<b>DIMENSIONS AND WEIGHT</b>										
LENGTH	mm	820	820	1010	1610	1610	2220	2220	2220	
WIDTH	mm	615	615	720	860	860	1100	1100	1100	
HEIGHT	mm	1415	1415	1585	1550	1550	2120	2120	2120	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	165	175	250	375	410	740	770	785	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	215	225	380	675	710	1160	1190	1205	

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021  
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) 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) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (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
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

\* For the configuration DPH (double pump P5) the chiller width will be 1305mm

\*\* For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm



**Air-cooled liquid chillers ENR series, scroll compressors, R513A refrigerant, brazed plate / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.**

Type of available evaporators:  
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements  
VTS = Thermostatic expansion valve  
ETS = Electronic expansion valve (available as option)

**TECHNICAL DATA**

<b>PERFORMANCES</b>		<b>Model</b>	<b>130</b>	<b>160</b>	<b>185</b>
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	72,0	90,0	110,0
TOTAL NOMINAL ABSORBED POWER		kW	29,4	40,2	44,8
EER		kW/kW	2,68	2,53	2,73
SEPR (HT) (3)		-	5,07	5,02	5,00
NOMINAL WATER FLOW		m <sup>3</sup> /h	12,4	15,5	18,9
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	25	20	25
<b>FRIGORIFIC SECTION</b>					
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	4/2/4	4/2/4	4/2/4
KIND OF COMPRESSOR		-	SCROLL	SCROLL	SCROLL
KIND OF EVAPORATOR		-	B-ES	B-ES	B-ES
KIND OF EXPANSION ELEMENT		-	VTS	VTS	VTS
<b>HYDRAULIC SECTION</b>					
WATER FLOW RANGE (6)		m <sup>3</sup> /h	8÷18	14÷31	18÷35
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,53	4,56	4,56
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,56	7,75	7,75
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	17,40	17,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	2"	DN65	DN65
TANK VOLUME (5) (8)		dm <sup>3</sup>	390	390	390
EXPANSION VESSEL VOLUME (OPTION XV) (9)		liters	19	19	19
<b>FAN SECTION (AXIAL)</b>					
FANS		nr.	2	3	3
FAN SPEED REGULATION		-	ON/OFF	ON/OFF	ON/OFF
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	5,82	5,82
MAXIMUM FANS ABSORBED CURRENT		A	7,80	11,70	11,70
TOTAL AIR FLOW		m <sup>3</sup> /h	40000	57000	54000
<b>TOTAL ELECTRIC DATA</b>					
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	89,7	124,3	147,0
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	188,4	238,1	289,1
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	164,8	210,1	254,3
<b>NOISE DATA</b>					
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	59,5	61,9	63,1
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)		dB(A)	58,9	60,8	61,4
<b>DIMENSIONS AND WEIGHT</b>					
LENGTH		mm	3355	3355	3355
WIDTH		mm	1105*	1105*	1105*
HEIGHT		mm	2205	2205	2205
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)		kg	1190	1260	1320
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)		kg	1610	1695	1760

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021  
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) 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) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (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
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

\* For the configuration DPH (double pump P5) the chiller width will be 1305mm

\*\* For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

## ENRF SERIES

*Free-Cooling liquid Chillers  
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



**Free-cooling liquid chillers ENRF series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator, thermostatic expansion valve, condenser and free-cooling coil with copper tubes and aluminium finned fins, AC axial fans regulated with cut phase fan speed regulator. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard.**

Type of available evaporators:  
CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger installed inside the water storage tank  
ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)  
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements  
VTS = Thermostatic expansion valve  
ETS = Electronic expansion valve (available as option)

**TECHNICAL DATA**

<b>PERFORMANCES</b>		<b>Model</b>	<b>010</b>	<b>012</b>	<b>016</b>	<b>022</b>	<b>030</b>	<b>038</b>	<b>045</b>	<b>055</b>	
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	9,5	12,0	14,4	23,4	29,8	38,6	45,2	57,7	
TOTAL NOMINAL ABSORBED POWER		kW	4,9	6,1	7,6	9,7	11,3	16,5	18,4	22,2	
EER		kW/kW	2,41	2,33	2,19	2,77	2,97	2,70	2,80	2,89	
SEPR (HT) (4)		-	5,01	5,05	5,04	5,07	5,03	5,07	5,05	5,04	
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	-0,3	-2,2	-3,6	0,7	0,1	2,0	1,0	0,5	
NOMINAL WATER FLOW		m3/h	1,6	2,1	2,5	4,0	5,1	6,6	7,8	9,9	
MECHANICAL MODE PRESSURE DROPS (5) (7) (8)		kPa	27	28	35	49	47	56	58	60	
FREE COOLING MODE PRESSURE DROPS (6) (7) (8)		kPa	47	57	76	75	76	74	82	107	
NOMINAL COOLING CAPACITY		30%EG 15°C/10°C @ 30°C (2)	kW	10,6	13,3	16,0	26,0	33,1	42,9	50,2	64,1
TOTAL NOMINAL ABSORBED POWER			kW	4,7	5,8	7,1	9,2	10,7	15,7	17,4	20,9
EER	kW/kW		2,87	2,77	2,61	3,28	3,53	3,18	3,30	3,43	
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C		1,0	-1,3	-3,1	1,8	1,0	3,5	2,1	1,5	
NOMINAL WATER FLOW	m3/h		2,0	2,5	3,0	4,9	6,3	8,1	9,5	12,1	
MECHANICAL MODE PRESSURE DROPS (5) (7) (8)	kPa		45	46	58	82	78	93	96	99	
FREE COOLING MODE PRESSURE DROPS (6) (7) (8)	kPa		78	94	126	124	126	123	136	177	
<b>FRIGORIFIC SECTION</b>											
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	1/1/1
KIND OF EVAPORATOR	-		CX	CX	CX	CX	CX	CX	CX	CX	CX
<b>HYDRAULIC SECTION</b>											
WATER FLOW RANGE (8)		m3/h	1,2÷2,9	1,2÷2,9	1,2÷2,9	3,5÷8,0	4,0÷8,0	5,5÷12,0	6,0÷12,0	6,0÷12,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (3)	kW	0,98	0,98	0,98	1,28	1,28	2,20	2,20	2,20	
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	1,78	1,78	1,78	2,37	2,37	4,24	4,24	4,24	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (3)	kW	2,17	1,10	1,10	1,47	2,94	2,94	2,94	2,94	
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,17	2,17	2,17	2,86	5,83	5,83	5,83	5,83	
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	3/4"	3/4"	3/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	
TANK VOLUME (7) (10)	dm³	50	50	50	270	270	270	270	270	270	
EXPANSION VESSEL VOLUME (OPTION XV) (11)	liters	5	5	5	12	12	12	12	12	12	
<b>FAN SECTION (AXIAL)</b>											
FANS	nr.	1	1	1	2	2	2	2	2	2	
MAXIMUM FANS ABSORBED POWER	AC	kW	0,72	0,72	0,81	1,62	1,62	3,88	3,88	3,88	
MAXIMUM FANS ABSORBED CURRENT		A	1,41	1,41	1,54	3,08	3,08	7,80	7,80	7,80	
TOTAL AIR FLOW		m3/h	6115	6115	6800	13800	13000	30000	30000	28000	
<b>TOTAL ELECTRIC DATA</b>											
MAXIMUM ABSORBED CURRENT (F.L.A) (8)	A	11,1	12,9	15,2	21,4	25,6	36,5	42,0	48,5		
MAXIMUM PEAK CURRENT (L.R.A) (8)	A	49,8	64,8	67,8	104,4	141,4	144,2	178,2	229,2		
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (8)	A	NA	NA	NA	NA	NA	116,2	143,4	184,2		
<b>NOISE DATA</b>											
SOUND PRESSURE FOR STANDARD CONFIGURATION (8) (9)	dB(A)	49,7	49,7	53,2	56,6	56,5	58,5	58,6	59,6		
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (8) (9)	dB(A)	NA	NA	NA	56,4	56,3	58,3	58,3	58,6		
<b>DIMENSIONS AND WEIGHT</b>											
LENGTH	mm	1360	1360	1360	1610	1610	2220	2220	2220		
WIDTH	mm	720	720	720	860	860	1100	1100	1100		
HEIGHT	mm	1585	1585	1585	1550	1550	2120	2120	2120		
WEIGHT EMPTY FOR STANDARD CONFIGURATION (7) (8)	kg	260	265	275	460	470	635	650	740		
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7) (8)	kg	315	320	330	745	755	930	950	1035		

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Last update: 22/07/2021  
Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
  - (2) Data referred to inlet/outlet water temperature = +15/+10 °C, ambient temperature = +30°C, fluid = 70% Water + 30% Ethylene Glycol
  - (3) Available pressure can be calculated from Hitema Online Selection Software
  - (4) 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 (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
  - (5) Pressure drops taken in account: evaporator, valves, piping ; (6) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
  - (7) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
  - (8) Data referred to standard chiller configuration WP (single pump P3) and AC fans
  - (9) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
  - (10) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough
  - (11) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit
- \* For the configurations NT.NP (no tank, no pump), NT.WP (no tank, single pump P3), and NT.PH (no tank, single pump P5) the chiller width will be 1105mm

**Free-cooling liquid chillers ENRF series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator, thermostatic expansion valve, condenser and free-cooling coil with copper tubes and aluminium finned fins, AC axial fans regulated with cut phase fan speed regulator. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard.**

Type of available evaporators:  
CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger installed inside the water storage tank  
ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)  
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements  
CP = Capillary tube  
VTS = Thermostatic expansion valve  
ETS = Electronic expansion valve (available as option)

**TECHNICAL DATA**

<b>PERFORMANCES</b>		<b>Model</b>	<b>061</b>	<b>075</b>	<b>090</b>	<b>100</b>	<b>130</b>	<b>160</b>	<b>185</b>	<b>200</b>
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	61,8	74,7	87,4	101,7	118,0	150,0	174,0	200,0
TOTAL NOMINAL ABSORBED POWER		kW	24,1	28,7	34,3	37,3	47,6	59,1	67,3	77,5
EER		kW/kW	2,99	2,95	2,84	3,01	2,84	2,83	2,85	2,97
SEPR (HT) (4)		-	5,06	5,02	5,07	5,03	5,03	5,06	5,03	5,05
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	1,7	1,7	2,0	1,5	1,5	1,2	1,5	0,7
NOMINAL WATER FLOW		m3/h	10,6	12,8	15,0	17,5	20,3	25,8	29,9	34,4
MECHANICAL MODE PRESSURE DROPS (5) (7) (8)		kPa	33	26	42	58	66	78	88	64
FREE COOLING MODE PRESSURE DROPS (6) (7) (8)		kPa	58	60	85	112	121	120	128	102
NOMINAL COOLING CAPACITY	30°EG 15°C/10°C @ 30°C (2)	kW	67,2	83,9	97,0	112,9	131,0	166,5	193,1	222,0
TOTAL NOMINAL ABSORBED POWER		kW	22,1	27,0	32,3	35,0	44,9	55,6	63,1	72,9
EER		kW/kW	3,61	3,52	3,37	3,57	3,38	3,35	3,40	3,54
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	4,1	3,1	3,5	2,8	2,8	2,4	2,8	1,8
NOMINAL WATER FLOW		m3/h	12,7	15,9	18,4	21,4	24,8	31,5	36,6	42,1
MECHANICAL MODE PRESSURE DROPS (5) (7) (8)		kPa	52	44	69	96	109	129	145	106
FREE COOLING MODE PRESSURE DROPS (6) (7) (8)		kPa	92	102	140	185	200	199	212	169
<b>FRIGORIFIC SECTION</b>										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4
KIND OF EVAPORATOR	-	CX	CX	CX	CX	ST	ST	ST	ST	ST
<b>HYDRAULIC SECTION</b>										
WATER FLOW RANGE (8)	m3/h	8,6÷19	10÷22	10÷22	12÷23	14÷27	18÷31	26÷35	26÷46	26÷46
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (3)	kW	3,46	3,46	3,46	3,46	6,12	6,12	6,12	10,25
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	6,33	6,33	6,33	6,33	10,40	10,40	10,40	17,40
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (3)	kW	6,12	8,30	8,30	8,30	12,04	12,04	12,04	19,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	14,10	14,10	14,10	20,20	20,20	20,20	32,70
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	2"	2"	2"	2"	DN65	DN65	DN65	DN80	DN80
TANK VOLUME (7) (10)	dm³	410	410	410	410	390	500	500	500	500
EXPANSION VESSEL VOLUME (OPTION XV) (11)	liters	19	19	19	19	19	19	19	19	40
<b>FAN SECTION (AXIAL)</b>										
FANS	nr.	2	2	3	3	4	5	5	5	5
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	3,88	5,82	5,82	7,76	9,70	9,70	9,70
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	11,70	11,70	15,60	19,50	19,50	19,50
TOTAL AIR FLOW		m3/h	36000	36000	49500	54000	66000	72000	71000	80000
<b>TOTAL ELECTRIC DATA</b>										
MAXIMUM ABSORBED CURRENT (F.L.A) (8)	A	54,4	63,1	78,0	84,5	106,5	127,9	149,9	169,8	169,8
MAXIMUM PEAK CURRENT (L.R.A) (8)	A	173,3	178,6	222,0	273,0	225,4	243,4	293,9	358,3	358,3
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (8)	A	145,5	150,6	187,2	228,0	197,6	215,4	259,1	313,3	313,3
<b>NOISE DATA</b>										
SOUND PRESSURE FOR STANDARD CONFIGURATION (8) (9)	dB(A)	58,9	59,3	60,8	61,4	61,7	62,9	63,0	63,7	63,7
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (8) (9)	dB(A)	58,7	58,9	60,4	60,6	61,5	62,5	62,5	62,8	62,8
<b>DIMENSIONS AND WEIGHT</b>										
LENGTH	mm	3355	3355	3355	4355	4355	5350	5350	6350	6350
WIDTH	mm	1105	1105	1105	1105	1105	1105	1105	1305*	1305*
HEIGHT	mm	2205	2205	2205	2205	2205	2205	2205	2205	2180
WEIGHT EMPTY FOR STANDARD CONFIGURATION (7) (8)	kg	1120	1150	1180	1480	1675	1910	2000	2465	2465
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7) (8)	kg	1590	1620	1650	1970	2180	2515	2670	3130	3130

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  - (4) 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 (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
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Type of available expansion elements

CP = Capillary tube  
VTS = Thermostatic expansion valve  
ETS = Electronic expansion valve (available as option)

**TECHNICAL DATA**

<b>PERFORMANCES</b>		<b>Model</b>	<b>230</b>	<b>280</b>	<b>340</b>	<b>370</b>
<b>W 12°C/7°C @ 35°C (1)</b>	NOMINAL COOLING CAPACITY	kW	226,0	276,0	325,0	355,0
	TOTAL NOMINAL ABSORBED POWER	kW	86,7	107,1	117,3	133,9
	EER	kW/kW	2,96	2,85	3,04	2,87
	SEPR (HT) (4)	-	5,00	5,06	5,01	5,01
	AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	0,5	-1,2	-7,0	-8,2
	NOMINAL WATER FLOW	m3/h	38,8	47,4	55,8	61,0
	MECHANICAL MODE PRESSURE DROPS (5) (7) (8)	kPa	53	60	68	77
	FREE COOLING MODE PRESSURE DROPS (6) (7) (8)	kPa	98	120	117	122
<b>30%EG 15°C/10°C @ 30°C (2)</b>	NOMINAL COOLING CAPACITY	kW	250,9	306,4	360,8	394,1
	TOTAL NOMINAL ABSORBED POWER	kW	81,5	100,3	109,7	124,9
	EER	kW/kW	3,52	3,41	3,63	3,44
	AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	1,5	-0,7	-8,3	-9,9
	NOMINAL WATER FLOW	m3/h	47,5	58,0	68,3	74,6
	MECHANICAL MODE PRESSURE DROPS (5) (7) (8)	kPa	79	90	102	116
	FREE COOLING MODE PRESSURE DROPS (6) (7) (8)	kPa	147	180	175	183
	<b>FRIGORIFIC SECTION</b>					
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	4/2/4	4/2/4	4/2/4	4/2/4	
KIND OF EVAPORATOR	-	ST	ST	ST	ST	
<b>HYDRAULIC SECTION</b>						
WATER FLOW RANGE (8)	m3/h	26÷46	31÷58	38÷72	42÷80	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (3)	kW	10,25	10,25	10,25	10,25
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	17,40	17,40	17,40	17,40
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (3)	kW	19,94	19,94	19,94	19,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32,70	32,70	32,70	32,70
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	DN80	DN100	DN100	DN100	
TANK VOLUME (7) (10)	dm³	500	500	500	500	
EXPANSION VESSEL VOLUME (OPTION XV) (11)	liters	40	40	40	40	
<b>FAN SECTION (AXIAL)</b>						
FANS	nr.	6	6	6	6	
MAXIMUM FANS ABSORBED POWER	AC	kW	11,64	11,64	11,64	11,64
MAXIMUM FANS ABSORBED CURRENT		A	23,40	23,40	23,40	23,40
TOTAL AIR FLOW		m3/h	84000	84000	84000	84000
<b>TOTAL ELECTRIC DATA</b>						
MAXIMUM ABSORBED CURRENT (F.L.A) (8)	A	186,6	219,2	248,6	278,0	
MAXIMUM PEAK CURRENT (L.R.A) (8)	A	375,1	446,6	499,3	528,7	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (8)	A	330,1	392,2	437,3	466,7	
<b>NOISE DATA</b>						
SOUND PRESSURE FOR STANDARD CONFIGURATION (8) (9)	dB(A)	64,8	66,1	66,1	66,1	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (8) (9)	dB(A)	63,6	64,4	64,4	64,4	
<b>DIMENSIONS AND WEIGHT</b>						
LENGTH	mm	6350	6350	6350	6350	
WIDTH	mm	1305*	1305*	1305*	1305*	
HEIGHT	mm	2180	2180	2180	2180	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (7) (8)	kg	2695	2820	2920	2980	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7) (8)	kg	3365	3510	3625	3700	

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  - (3) Available pressure can be calculated from Hitema Online Selection Software
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NORTHERN IRELAND  
KILBEGS BUSINESS PARK  
KILBEGS ROAD  
ANTRIM  
BT41 4NN  
+44 (0) 28 944 88588



REPUBLIC OF IRELAND  
KILEEN HOUSE  
CLONMINAM INDUSTRIAL ESTATE  
PORTLAOISE  
R32W 6WV  
+353 (0)457 9266