



# TEAM

AIR POWER

## ENR-IR SERIES LIQUID INJECTION LOW TEMPERATURE APPLICATIONS



# DISCOVER HITEMA® CUSTOMIZED APPLICATIONS

choose your customized configuration



**ENR/ENRF SERIES**  
1,6kW ÷ 440kW

**CSE SERIES**  
30kW ÷ 377kW

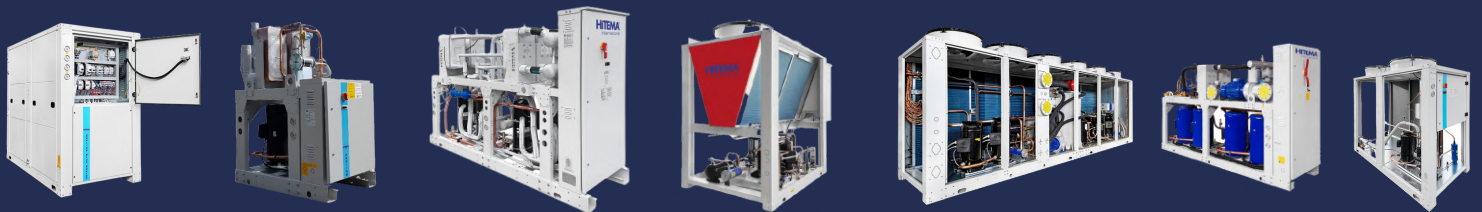
**CFT SERIES**  
7,9kW ÷ 410kW

**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

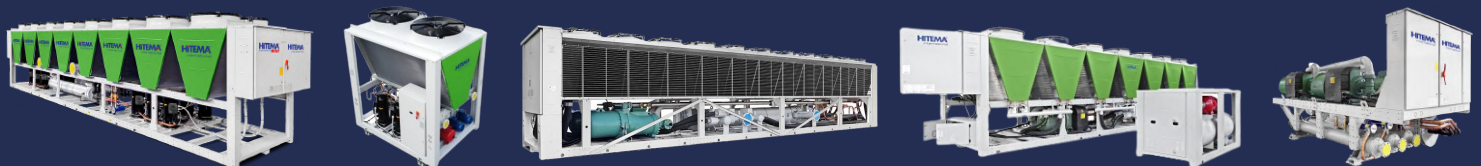
**HFT SERIES**  
16kW ÷ 345kW

**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

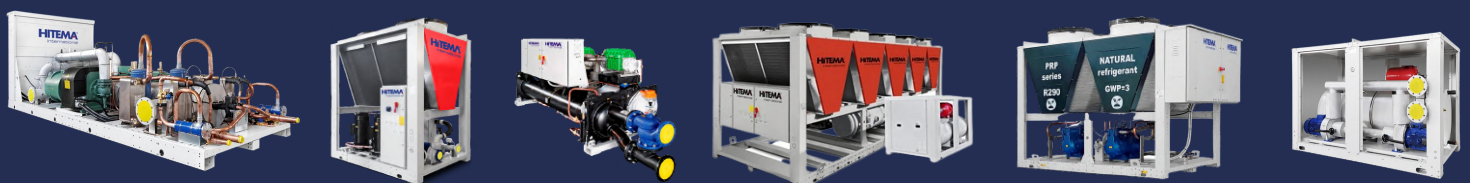
**SBS-MC SERIES**  
95kW ÷ 180kW

**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-IR SERIES

*Air-Cooled liquid Chillers, liquid injection scroll compressor  
AC axial fans  
IP54 protection rating  
Suitable for OUTDOOR installation, ice-rink application*



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



**Air-cooled liquid chillers ENR-IR series for ice-rink application, liquid injection scroll compressors, R449A refrigerant, brazed plate 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.**

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

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

**TECHNICAL DATA**

<b>PERFORMANCES</b>		Model	008	016	022	025	030	038	045	061
NOMINAL COOLING CAPACITY	EG35% -10°C/-15°C @ 15°C (1)	kW	4,6	8,4	11,1	15,0	18,0	22,0	25,0	36,0
TOTAL NOMINAL ABSORBED POWER		kW	2,6	4,4	5,4	6,8	9,1	9,9	11,4	18,8
EER		kW/kW	2,24	2,46	2,53	2,73	2,31	2,55	2,48	2,17
SEPR (HT) (3)		-	5,05	5,05	5,02	5,00	5,05	5,03	5,07	5,04
NOMINAL WATER FLOW		m <sup>3</sup> /h	0,8	1,4	1,9	2,6	3,1	3,8	4,3	6,2
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	30	43	37	35	34	25	31	28
<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	2/2/2
KIND OF COMPRESSOR	-	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
<b>HYDRAULIC SECTION</b>										
WATER FLOW RANGE (6)	m <sup>3</sup> /h	0,6÷2,2	1,2÷2,9	1,2÷2,9	1,2÷2,9	3,0÷6,0	3,0÷6,0	3,0÷6,0	6,0÷12,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,56	0,98	0,98	1,28	1,28	1,28	1,28	2,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	3,46	1,78	1,78	2,37	2,37	2,37	2,37	4,24
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	0,74	1,10	1,10	1,47	1,47	1,47	1,47	2,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	3,22	2,17	2,17	2,86	2,32	2,32	2,32	5,83
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1/2"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	
TANK VOLUME (5) (8)	dm <sup>3</sup>	50	50	110	110	270	270	270	410	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	5	5	8	8	8	8	8	12	
<b>FAN SECTION (AXIAL)</b>										
FANS	nr.	1	1	1	1	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	0,81	1,44	1,62	1,44	3,88
MAXIMUM FANS ABSORBED CURRENT		A	1,10	2,40	1,50	1,50	2,82	3,08	2,82	7,80
TOTAL AIR FLOW		m <sup>3</sup> /h	4200	4750	7500	6800	15600	16400	14800	24800
<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	10,2	13,9	19,8	21,7	24,4	27,9	30,2	50,4	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	50,0	71,0	104,0	102,4	120,4	141,4	170,4	149,2	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	NA	99,6	116,7	139,6	125,6	
<b>NOISE DATA</b>										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	51,4	52,2	56,0	56,3	55,3	59,1	55,8	60,2	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	NA	NA	NA	NA	54,9	57,8	55,9	59,2	
<b>DIMENSIONS AND WEIGHT</b>										
LENGTH	mm	820	820	1010	1010	1610	1610	1610	2220	
WIDTH	mm	615	615	720	720	860	860	860	1100	
HEIGHT	mm	1415	1415	1585	1585	1550	1550	1550	2120	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	160	175	250	250	375	390	410	740	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	210	225	380	380	675	690	710	1160	

The manufacturer reserves the right to modify specifications without notice.

Last update: 07/10/2021  
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = -10/-15 °C, ambient temperature = +15°C, fluid = EG35%
- (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-IR series for ice-rink application, liquid injection scroll compressors, R449A refrigerant, brazed plate 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.**

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

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

**TECHNICAL DATA**

<b>PERFORMANCES</b>		Model	075	090	130	160	185	200
NOMINAL COOLING CAPACITY	EG35% -10°C/-15°C @ 15°C (1)	kW	44,0	49,0	59,0	70,0	88,0	97,0
TOTAL NOMINAL ABSORBED POWER		kW	20,3	23,7	25,0	33,8	36,0	45,5
EER		kW/kW	2,44	2,28	2,62	2,24	2,63	2,26
SEPR (HT) (3)		-	5,05	5,03	5,07	5,02	5,00	5,00
NOMINAL WATER FLOW		m <sup>3</sup> /h	7,6	8,4	10,1	12,0	15,1	16,7
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	25	29	35	30	25	30
<b>FRIGORIFIC SECTION</b>								
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	2/2/2	2/2/2	4/2/4	4/2/4	4/2/4	4/2/4	
KIND OF COMPRESSOR	-	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	
<b>HYDRAULIC SECTION</b>								
WATER FLOW RANGE (6)	m <sup>3</sup> /h	6,0÷12,0	6,0÷12,0	8,0÷18,0	8,0÷18,0	10,0÷20,0	10,0÷20,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,20	2,20	2,53	2,53	2,53	2,53
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,24	4,24	4,56	4,56	4,56	4,56
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	2,94	2,94	6,12	6,12	6,12	6,12
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	5,83	5,83	10,40	10,40	10,40	10,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1 1/2"	2"	2"	2"	2"	2"	
TANK VOLUME (5) (8)	dm <sup>3</sup>	410	410	390	390	390	390	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	12	12	19	19	19	19	
<b>FAN SECTION (AXIAL)</b>								
FANS	nr.	2	2	2	3	3	4	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	CUT PHASE	
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	3,88	3,88	5,82	5,82	7,76
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	11,70	11,70	15,60
TOTAL AIR FLOW		m <sup>3</sup> /h	36000	34000	40000	57000	54000	68800
<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	57,0	62,0	83,8	93,0	106,2	120,0	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	173,5	205,0	166,0	191,8	222,7	263,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	145,7	171,4	146,0	168,2	194,9	229,4	
<b>NOISE DATA</b>								
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	61,4	61,8	60,9	62,3	63,6	64,7	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	59,7	59,9	59,5	61,0	61,6	62,7	
<b>DIMENSIONS AND WEIGHT</b>								
LENGTH	mm	2220	2220	3355	3355	3355	4355	
WIDTH	mm	1100	1100	1105*	1105*	1105*	1105**	
HEIGHT	mm	2120	2120	2205	2205	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	770	785	1190	1260	1320	1815	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	1190	1205	1610	1695	1760	2275	

The manufacturer reserves the right to modify specifications without notice.

Last update: 07/10/2021  
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = -10/-15 °C, ambient temperature = +15°C, fluid = EG35%
- (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-IR series for ice-rink application, liquid injection scroll compressors, R449A refrigerant, brazed plate 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.**

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

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

**TECHNICAL DATA**

<b>PERFORMANCES</b>		Model	008	016	022	025	030	038	045	061
NOMINAL COOLING CAPACITY	EG50% -20°C/-25°C @ 15°C (1)	kW	2,4	4,7	6,2	8,2	10,0	12,2	13,3	19,5
TOTAL NOMINAL ABSORBED POWER		kW	1,8	3,0	3,8	4,8	6,3	7,5	8,2	13,6
EER		kW/kW	2,03	1,94	2,19	2,35	2,00	1,98	1,93	1,72
SEPR (HT) (3)		-	5,05	5,05	5,02	5,00	5,05	5,03	5,07	5,04
NOMINAL WATER FLOW		m3/h	0,5	1,0	1,3	1,8	2,1	2,6	2,8	4,1
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	27	37	33	47	40	35	29	40
<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	2/2/2
KIND OF COMPRESSOR	-	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
<b>HYDRAULIC SECTION</b>										
WATER FLOW RANGE (6)	m3/h	0,4÷2,0	0,6÷2,9	0,8÷2,8	1,2÷2,9	1,2÷2,9	1,2÷2,9	1,2÷2,9	2,5÷5,0	4,0÷6,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,56	0,56	0,98	1,28	1,28	1,28	1,28	2,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	3,46	3,46	1,78	2,37	2,37	2,37	2,37	4,24
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	0,74	0,74	1,10	1,47	1,47	1,47	1,47	2,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	3,22	3,22	2,17	2,86	2,32	2,32	2,32	5,83
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1/2"	1/2"	1"	1"	1"	1"	1"	1"	1 1/2"
TANK VOLUME (5) (8)	dm³	50	50	110	110	270	270	270	270	410
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	5	5	8	8	8	8	8	8	12
<b>FAN SECTION (AXIAL)</b>										
FANS	nr.	1	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	ON/OFF
MAXIMUM FANS ABSORBED POWER	AC	kW	0,25	0,49	0,81	0,81	1,44	1,62	1,44	3,88
MAXIMUM FANS ABSORBED CURRENT		A	1,10	2,40	1,50	1,50	2,82	3,08	2,82	7,80
TOTAL AIR FLOW		m3/h	4200	4750	7500	6800	15600	16400	14800	24800
<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	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	10,2	13,9	19,8	21,7	24,4	27,9	30,2	30,2	50,4
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	50,0	71,0	104,0	102,4	120,4	141,4	170,4	170,4	149,2
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	NA	99,6	116,7	139,6	139,6	125,6
<b>NOISE DATA</b>										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	51,4	52,2	56,5	56,3	55,3	59,1	55,8	55,8	60,2
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	NA	NA	NA	NA	54,9	57,8	55,9	55,9	59,2
<b>DIMENSIONS AND WEIGHT</b>										
LENGTH	mm	820	820	1010	1010	1610	1610	1610	1610	2220
WIDTH	mm	615	615	720	720	860	860	860	860	1100
HEIGHT	mm	1415	1415	1585	1585	1550	1550	1550	1550	2120
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	160	175	250	250	375	390	410	410	740
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	210	225	380	380	675	690	710	710	1160

The manufacturer reserves the right to modify specifications without notice.

Last update: 07/10/2021  
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = -20/-25 °C, ambient temperature = +15°C, fluid = EG50%
- (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-IR series for ice-rink application, liquid injection scroll compressors, R449A refrigerant, brazed plate 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.**

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

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

**TECHNICAL DATA**

<b>PERFORMANCES</b>		Model	075	090	130	160	185	200
NOMINAL COOLING CAPACITY	EG50% -20°C/-25°C @ 15°C (1)	kW	24,4	26,5	32,6	39,1	48,8	53,0
TOTAL NOMINAL ABSORBED POWER		kW	15,5	17,3	19,6	25,2	29,1	34,6
EER		kW/kW	1,83	1,75	1,91	1,73	1,83	1,65
SEPR (HT) (3)		-	5,05	5,03	5,07	5,02	5,00	5,00
NOMINAL WATER FLOW		m <sup>3</sup> /h	5,2	5,7	6,9	8,3	10,3	11,2
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	25	29	35	32	28	27
<b>FRIGORIFIC SECTION</b>								
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	2/2/2	2/2/2	4/2/4	4/2/4	4/2/4	4/2/4	
KIND OF COMPRESSOR	-	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	
<b>HYDRAULIC SECTION</b>								
WATER FLOW RANGE (6)	m <sup>3</sup> /h	5,0÷11,0	5,0÷11,0	6,0÷12,0	6,0÷12,0	8,0÷18,0	8,0÷18,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,20	2,20	2,53	2,53	2,53	2,53
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,24	4,24	4,56	4,56	4,56	4,56
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	2,94	2,94	6,12	6,12	6,12	6,12
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	5,83	5,83	10,40	10,40	10,40	10,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	
TANK VOLUME (5) (8)	dm <sup>3</sup>	410	410	390	390	390	390	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	12	12	19	19	19	19	
<b>FAN SECTION (AXIAL)</b>								
FANS	nr.	2	2	2	3	3	4	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	CUT PHASE	
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	3,88	3,88	5,82	5,82	7,76
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	11,70	11,70	15,60
TOTAL AIR FLOW		m <sup>3</sup> /h	36000	34000	40000	57000	54000	68800
<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	57,0	62,0	83,8	93,0	106,2	120,0	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	173,5	205,0	166,0	191,8	222,7	263,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	145,7	171,4	146,0	168,2	194,9	229,4	
<b>NOISE DATA</b>								
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	61,4	61,8	60,9	62,3	63,6	64,7	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	59,7	59,9	59,5	61,0	61,6	62,7	
<b>DIMENSIONS AND WEIGHT</b>								
LENGTH	mm	2220	2220	3355	3355	3355	4355	
WIDTH	mm	1100	1100	1105*	1105*	1105*	1105**	
HEIGHT	mm	2120	2120	2205	2205	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	770	785	1190	1260	1320	1815	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	1190	1205	1610	1695	1760	2275	

The manufacturer reserves the right to modify specifications without notice.

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Data referred to:

- (1) Data referred to inlet/outlet water temperature = -20/-25 °C, ambient temperature = +15°C, fluid = EG50%
- (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

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