



TEAM

AIR POWER

ENW SERIES



DISCOVER HITEMA® CUSTOMIZED APPLICATIONS

choose your customized configuration



ENR/ENRF SERIES
1,6kW ÷ 440kW

CSE SERIES
30kW ÷ 377kW

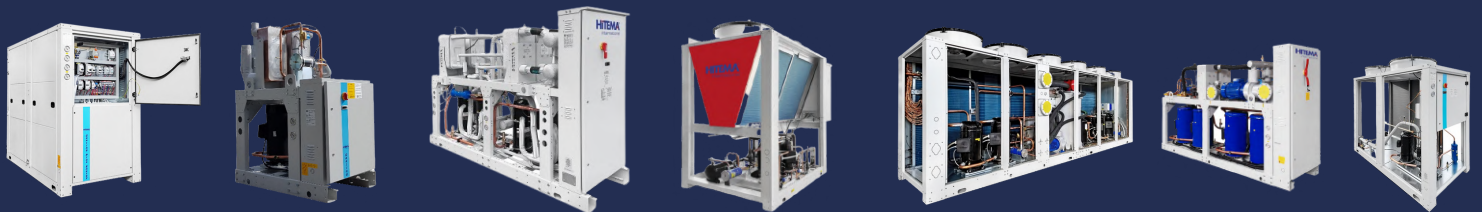
CFT SERIES
7,9kW ÷ 410kW

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

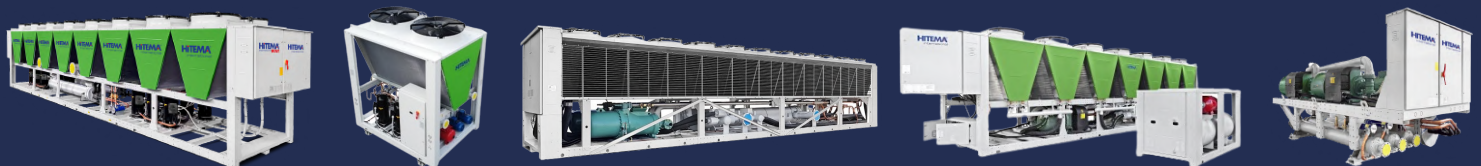
HFT SERIES
16kW ÷ 345kW

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

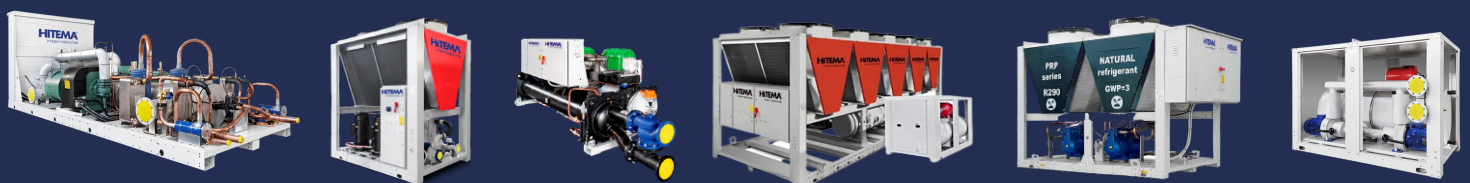
SBS-MC SERIES
95kW ÷ 180kW

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

ENW

Water-cooled liquid Chillers
Close cabinet
IP54 protection rating
Suitable for OUTDOOR & INDOOR installation



SERIES: ENW	DATE: 29/09/2021
CODE: TTD-ENW-00	UPDATE: -
CHECKED BY	M. Burba



Watercooled liquid chillers ENW series, rotary / scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator (brazed plate evaporator as option), brazed plate / shell and tube condenser/s, closed cabinet. IP54 protection rating, chillers suitable for outdoor installation. 60Hz version as option. Condenser/s 2 ways valve/s, inbuilt water storage tank and single pump P3 as standard.

Types of available condensing temperature control system:

No one condensing temperature control system

PCC2 = 2 ways valve/s on water side, regulated by condensing pressure (standard)

PCC3 = 3 ways valve/s on water side, regulated by condensing pressure

Type of available expansion elements:

CP = Capillary tube

VTS = Thermostatic expansion valve

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	230	280	340	370	430	
W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	240,9	302,2	346,7	391,3	445,8	
	NOMINAL HEATING CAPACITY (4)	kW	291,7	365,5	420,0	474,4	539,9	
	TOTAL NOMINAL ABSORBED POWER	kW	59,0	71,6	81,5	93,3	104,3	
	EER	kW/kW	4,75	4,77	4,74	4,71	4,74	
	SEPR (HT) (10)	-	7,05	7,00	7,01	7,06	8,06	
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	41,3	51,8	59,5	67,1	76,4	
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	25,0	31,3	36,0	40,7	46,3	
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)/(6)	kPa	62,9	66,4	56,3	62,8	81,5	
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3)/(5)	kPa	52,1	55,2	61,7	52,9	57,9	
	W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE	NOMINAL COOLING CAPACITY	kW	213,0	267,1	306,5	345,8	394,0
NOMINAL HEATING CAPACITY (4)		kW	275,0	344,5	396,0	447,4	509,0	
TOTAL NOMINAL ABSORBED POWER		kW	70,3	85,7	97,8	111,8	125,2	
EER		kW/kW	3,43	3,45	3,42	3,40	3,43	
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m ³ /h	36,6	45,9	52,7	59,5	67,8	
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m ³ /h	23,6	29,5	33,9	38,4	43,6	
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)/(6)		kPa	49,4	52,2	44,2	49,3	64,1	
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3)/(5)		kPa	46,3	49,1	54,8	47,1	51,5	
FRIGORIFIC SECTION								
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL		
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST		
KIND OF CONDENSER	-	ST	ST	ST	ST	ST		
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS		
HYDRAULIC SECTION								
EVAPORATORS / CONDENSERS	nr.	1/2	1/2	1/2	1/2	1/2		
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL) (6)	m ³ /h	2,5÷4,6	3,1÷5,8	3,8÷7,0	4,5÷8,0	5,2÷10,0		
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m ³ /h	1,4÷2,8	2,0÷3,7	2,0÷4,0	2,0÷5,2	3,4÷6,0		
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (3)	kW	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	17,40	17,40	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (3)	kW	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	32,70	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (THREADED / FLANGED)	BSP / DN	80	100	100	100	125		
HYDRAULIC CONNECTIONS, CONDENSER SIDE (THREADED / FLANGED)	BSP / DN	2 x DN65	2 x DN80	2 x DN80	2 x DN80	2 x DN100		
TANK VOLUME (6) (8)	dm ³	500	500	500	500	500		
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	19	19	19	19	19		
TOTAL ELECTRIC DATA (6)								
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50		
MAXIMUM ABSORBED CURRENT (F.L.A)	A	159,9	192,5	221,9	254,6	283,6		
MAXIMUM PEAK CURRENT (L.R.A)	A	348,4	419,9	472,6	505,3	617,8		
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)	A	303,4	365,5	410,6	443,3	536,2		
NOISE DATA (6) (7)								
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	60,5	63,3	63,3	63,4	65,7		
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	56,5	58,8	58,8	59,2	61,2		
DIMENSIONS AND WEIGHT								
LENGTH	mm	5350	5350	5350	6350	6350		
WIDTH	mm	1305	1305	1305	1305	1305		
HEIGHT	mm	1985	1985	1985	1985	1985		
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	2190	2400	2530	2865	2945		
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	2775	3000	3150	3510	3605		

The manufacturer reserves the right to modify specifications without notice.

Last update: 02/03/2021
Revision: 01-2021

Data referred to:

- Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +30/35°C (fluid = Water)
- Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +40/45°C (fluid = Water)
- Pressure drops taken in account: heat exchanger, valves, piping. Pump at the evaporator side, head pressure can be calculated from Hitema Online Selection Software
- Water cooled chillers can be used as not reversible heat pumps, this kind of application must be indicated in the order
- Data referred to standard chiller configuration (PCC2), with different condensing temperature control system this data will change
- Data referred to standard chiller configuration, evaporator as indicated in frigorific section and single pump P3 (WP), with different evaporator this data can change
- Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guaranteed, the tank supplied by Hitema can be not enough
- 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
- 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

* 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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