



TEAM  
AIR POWER

SBS-MC SERIES



# DISCOVER HITEMA® CUSTOMIZED APPLICATIONS

choose your customized configuration



**ENR/ENRF SERIES**  
1,6kW ÷ 440kW

**CSE SERIES**  
30kW ÷ 377kW

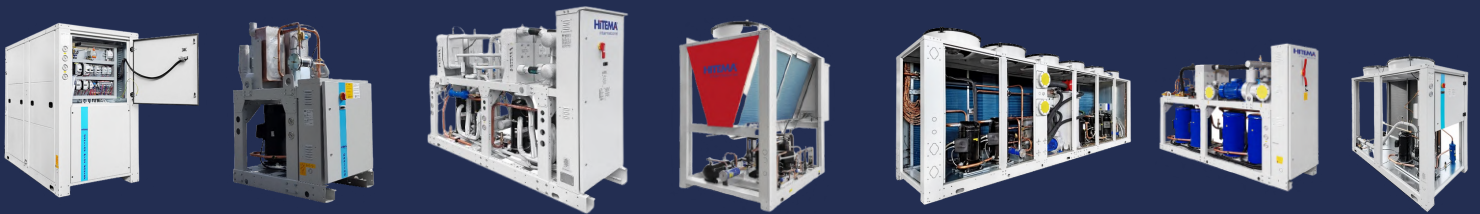
**CFT SERIES**  
7,9kW ÷ 410kW

**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

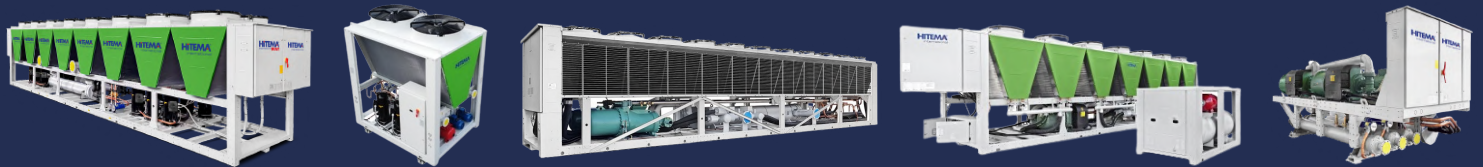
**HFT SERIES**  
16kW ÷ 345kW

**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

## SBS-MC SERIES

*Modular aircooled liquid chillers  
Microchannel condenser coil  
EC axial fans  
IP54 protection rating  
Suitable for OUTDOOR installation*



SERIES: SBS-SBSFF	DATE: 29/09/2021
CODE: TTD-SBS-MC-01	UPDATE: -
CHECKED BY:	M. Burba



**Modular air-cooled liquid chillers SBS-MC series, scroll compressors, 2 refrigerant circuits with one brazed plate evaporator per circuit and aluminum microchannel condenser coils to minimize the refrigerant charge (R410A / R32 / R454B), thermostatic expansion valve. EC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Electrical feed 400V/3ph/50Hz (60Hz version as option).**

**You can connect up to 8 modules in parallel with a single power supply point into a master control panel installed onboard of the first module.**

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>095</b>	<b>120</b>	<b>145</b>	<b>160</b>
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	95,5	119,4	143,7	179,9
TOTAL NOMINAL ABSORBED POWER		kW	22,0	29,0	39,1	57,5
EER		kW/kW	4,34	4,12	3,68	3,13
SEPR (HT) (2)		-	6,32	5,68	5,43	5,26
NOMINAL WATER FLOW		m <sup>3</sup> /h	16,4	20,5	24,7	30,9
SINGLE MODULE PRESSURE DROPS (4)		kPa	47,4	43,1	40,5	46,9
MULTIPLE MODULES PRESSURE DROPS (5)		kPa	80,5	56,1	57,2	70,1
<b>FRIGORIFIC SECTION</b>						
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	2/2/2	2/2/2	2/2/2	2/2/2
REFRIGERANT CHARGE PER CIRCUIT		kg	<10	<10	<10	<10
<b>HYDRAULIC SECTION (3)</b>						
WATER FLOW RANGE		m <sup>3</sup> /h	10÷34	13÷34	20÷34	20÷55
HYDRAULIC CONNECTIONS FOR SINGLE MODULE (FLANGED)		DN	65	65	80	80
HEADERS CONNECTIONS SIZE (VICTAULIC) (9)		DN	150	150	150	150
<b>FAN SECTION (AXIAL)</b>						
FANS		nr.	2	2	2	2
MAXIMUM FANS ABSORBED POWER	EC	kW	5,12	5,12	5,12	5,12
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	7,80
TOTAL AIR FLOW		m <sup>3</sup> /h	43520	43520	43520	43520
<b>TOTAL ELECTRIC DATA (6)</b>						
MAXIMUM ABSORBED CURRENT (F.L.A)		A	63,8	80,2	91,6	122,4
MAXIMUM PEAK CURRENT (L.R.A)		A	207,8	282,8	335,2	373,1
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)		A	173,0	234,7	277,7	311,1
<b>NOISE DATA (6) (7)</b>						
SOUND PRESSURE FOR STANDARD CONFIGURATION		dB(A)	58,2	60,5	60,5	61,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ)		dB(A)	57,4	58,5	58,5	59,1
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN)		dB(A)	54,8	56,5	56,5	57,5
<b>DIMENSIONS AND WEIGHT</b>						
SINGLE MODULE LENGTH (10)		mm	1610	1610	1610	1610
SINGLE MODULE WIDTH		mm	2590	2590	2590	2590
MULTIPLE MODULES WIDTH		mm	2870	2870	2870	2870
HEIGHT		mm	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (8)		kg	850	915	930	1160
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (8)		kg	870	935	950	1180

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021  
Revision: 01-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (3) Pump and tank can be supplied in a separate hydro-module (HITEMA HYD series)
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Pressure drops taken in account: evaporator, automatic isolation valves, circuit setter balancing valve, one way valve, piping
- (6) Data referred to standard chiller configuration NP (no pump) and EC 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) Weight referred to SINGLE MODULE version. For multiple module configuration, weight to be confirmed in case of order
- (9) Headers connection size is valid for a maximum flow rate of 191 m<sup>3</sup>/h in multi-module configuration. Dimensions will increase for greater flow rate.
- (10) Multiple modules length must be increase of 52mm each module, this length increasing correspond to minimum distance between two consecutive modules

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