

SBS-MC SERIES

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



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HITEMA INTERNATIONAL SRL

Via Mons. G. Babolin 14, Z.I. San Gabriele
 35024 Bovolenta – Padova (ITALY)

Tel. +39 (0)49 5386344 R.a. 12 lines

Fax. +39 (0)49 5386300

info@hitema.it hitema.com

Managing Director:

Maurizio Burba

burbam@hitema.it



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 pannel 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

PERFORMANCES		Model	095	120	145	160	
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		m3/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	
FRIGORIFIC SECTION							
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	
HYDRAULIC SECTION (3)							
WATER FLOW RANGE		m3/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	
FAN SECTION (AXIAL)							
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			m3/h	43520	43520	43520	43520
TOTAL ELECTRIC DATA (6)							
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	
NOISE DATA (6) (7)							
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	
DIMENSIONS AND WEIGHT							
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 m³/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