



SP-O

Refrigerant split type units
suitable for small-medium cold rooms

- › Condensing unit for floor or roof installation and evaporator for ceiling mounting
- › Extremely quick mounting thanks to the quick coupling joints
- › Reduced installation times and costs
- › Best surface-capacity ratio



Reliable unit with simple and rapid mounting

The SP-O series models are split type units, designed for use in small to medium rooms.

The SP-O series consists of 2 lines: MSP for medium temperatures (max 41m³ at Tc= +0°C, Tamb= +30°C) and BSP for low temperatures (max 30m³ at Tc= -20°C, Tamb= +30°C).

The split structure allows the assembly of evaporator and condenser separately, which ensures that the user has a choice of flexible installation, overcoming all the problems deriving from the lack of space that might prevent the mounting of the monoblock on the room wall.

The condensing unit, protected by a resistant pre-painted sheet steel body and equipped with hermetic compressor, requires a ground installation.

The slim evaporator is positioned on the ceiling of the room allowing to optimize the useful space inside the cold room.

The connection between the two units is realized thanks to pre-charged piping and electrical cables (2,5m, 5m or 10m) which allow quick installation and easy maintenance.

The SP-O systems are supplied ready to use: both the condensing and evaporating units have been tested and precharged with refrigerant, ensuring simple and rapid mounting thanks to specific connecting

joints for the piping.

The SP-O units are equipped with an automatic electric defrosting system.

The option for using the SP-O systems in an external environment including pressure switch or condenser fan speed variator and crankcase heater is available on request.

The control and setting of the unit are simple and intuitive thanks to the electric control panel equipped with electronic control unit.

A wall-mounted remote-control panel completes the equipment, helping to make the SP-O an efficient, reliable and highly customizable machine.

Standard configuration

- › Hermetic compressor
- › Power supply 220-230/1N~/50 or 380-400/3N~/50
- › Air + Axial Fan
- › Crankcase heater
- › Condenser fan pressure switch (only MSP106, MSP107, MSP212, BSP110, BSP112, BSP117, BSP218, BSP220 units)
- › Pressure controlled condenser fan speed regulator (only MSP315, MSP320, BSP320, BSP330 units)
- › Remote electronic control panel
- › Expansion through capillary tube
- › Liquid line filter
- › Drain heater on low temperature units
- › High and low pressure switches
- › Refrigerant charge



Personalization options and accessories

Power supply:

- › 220-230/1N~/50 (standard MSP106÷212 and BSP110÷218 units)
- › 380-400/3N~/50 (standard MSP315-320 and BSP220÷330 units)
- › 220-230/1N~/60
- › 220-230/3~/50
- › 220-230/3~/60
- › 440/3~/60
- › 380-400/3N~/60
- › 110-115/1N~/60
- › 460/3~/60

Condensation type:

- › City water with pressure valve

Accessories kit:

- › Audible and visual alarm
- › Room light kit
- › Remote control panel for 2-3-4 units
- › Prearrangement for supervision system
- › Remote control panel for 2 units with alternating operation

Technical data



SP-O

Medium temperature units

Code	SB.MSP106EA12XX	SB.MSP107EA12XX	SB.MSP212EA12XX	SB.MSP315EB13XX	SB.MSP320EB13XX
Refrigerant	R134a	R134a	R134a	R134a	R134a
Power supply [V/Ph~/Hz]	220- 230/1N~/50	220- 230/1N~/50	220- 230/1N~/50	380- 400/3N~/50	380- 400/3N~/50
HP compressor	3/4	1	1,2	3	3,5
Defrost	Electric	Electric	Electric	Electric	Electric
PED category	0	0	0	0	0
Working temperature [°C]	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5
Cooling capacity [Watt] [TC=0°C TA=30°C]	1.140	1.422	1.816	3.188	3.492

Low temperature units

Code	SB.BSP110DA12XX	SB.BSP112DA12XX	SB.BSP117DA12XX	SB.BSP218DA12XX	SB.BSP220DB12XX	SB.BSP320DB13XX	SB.BSP330DB13XX
Refrigerant	R452A	R452A	R452A	R452A	R452A	R452A	R452A
Power supply [V/Ph~/Hz]	220- 230/1N~/50	220- 230/1N~/50	220- 230/1N~/50	220- 230/1N~/50	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50
HP compressor	1	1,5	1,7	1,7	2	2	3
Defrost	Electric	Electric	Electric	Electric	Electric	Electric	Electric
PED category	0	0	0	0	0	0	0
Working temperature [°C]	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25
Cooling capacity [Watt] [TC=-20°C TA=30°C]	662	905	1.164	1.436	1.719	2.384	2.581

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