



BSC ESM



Gastronomy Rack blast freezer

BSC ESM is a rack blast freezer used for cooling and quick freezing of the products before storage. They are designed to optimize space in various settings, ranging from laboratories and canteens to cooking centers and restaurants. Engineered to accommodate all types of laboratory or oven trolleys, they have undergone rigorous testing to meet standards, demonstrating reliability even under heavy loads and in the most challenging work conditions.

Principle of operation

Blast chilling at +90°C to +3°C suitable for both SOFT and HARD cores, followed by storage at +3°C upon cycle completion. Blast freezing performed at +90°C to -18°C for SOFT and HARD cores, with storage maintained at -18°C after the process.

Construction

- Brushed stainless steel exterior.
- Insulation in high-density CFC- and HCFC-free PU (42 kg/m3).
- Copper-aluminum evaporator coil, cataphoresis-coated with non-toxic epoxy resin, installed on the side, with a cover that can be opened using a special safety key, for easy and correct maintenance.
- High-ventilation evaporator to ensure maximum efficiency of the cooling system. Anti-condensation heating element located on the door under the seal.
- Door with a scuff seal and hinges with a closing ramp.
- Ergonomic vertical handle with magnetic closure.
- Access ramp equipped with a liquid collection grill and filtering system (optional).
- External bumper to protect the control panel.
- Cabinet features rounded corners for easy cleaning.
- Internal bumper in extra-thick AISI 304 stainless steel to prevent damage from the trolley.
- Sandwich floor reinforced with a 30/10 steel sheet and a non-slip 5WL finish.
- Surfaces, metal components, and internal reinforcements made of AISI 304 or AISI 316 stainless steel.
- Resistance to saline environments tested for at least 800 hours.
- Suspended internal evaporator that allows rapid removal of wash water according to the NFS and UNI EN 14159 standards. Electrical connections are located on the front of the panel, equipped with safety locks.
- Insulation thickness: 80 mm.
- Copper condensing coil with high thermal efficiency aluminum fins.

Control

Smart and practical, the 5-inch touch screen is conveniently positioned at eye level and within easy reach on the door of the blast chiller. It provides instant access to functions, displayed using intuitive and easy-to-understand symbols.

BSC ESM	
Panels and doors finish	
Interior in stainless steel - exterior in PVC coated electrogalvanized sheet	▪
Other	
Heated core probe with 4 measuring points and a quick connector	▪
USB connection for uploading and downloading	▪
External bumper to protect the door	▪
Ramp	not included
ON-BOARD CONDENSING UNIT	(AIR UNIT)
Plug in	▪
Refrigerant gas	
R 290	▪
Supply voltage	
380-420 V 3N~ 50 Hz	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Optional <input type="checkbox"/> € Payment option	



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MODELS

BSC ESM 6040	Blast freezer for 1 rack for trays mm 400x600
BSC ESM 6080	Blast freezer for 1 rack for trays mm 600x800
BSC ESM 2X6080	Blast freezer for 2 racks for trays mm 600x800
BSC ESM 3X6080	Blast freezer for 3 racks for trays mm 600x800

Modello/Model	BSC ESM 6040 air unit	BSC ESM 6080 air unit	BSC ESM 2X6080 2 sliding doors on both sides regular roll-through with floor	BSC ESM 3X6080 2 sliding doors on both sides regular roll-through with floor
Trolley 20 trays GN1/1-EN1	1	1	2	3
Trolley 20 trays GN2/1-EN2	-	-	2	3
Doors	1	1	2	2
External dimensions WxDxH mm	890x1345x2400	1100x1625x2400	1500x2700x2100	1500x3800x2100
Internal dimensions WxDxH mm	688x835x1900	895x1040x1900	880x2320x1820	880x3420x1820
Positive blast chilling capacity in 90' +90°C>+3°C (kg)	90	110	300	450
Negative blast chilling capacity in 240' +90°C>-18°C (kg)	50	60	200	300
Electric Power W	3615	4500	1276	1814
Power Absorption A	8.63	10.5	3.56	3.82
Power Supply V/Ph/Hz	380-420/3N/50			