

Boreal



Walk-in cold room - negative temperature

Characteristics

- The rooms are characterized by their storage capacity, expressed in m³, and by their interior dimensions: width and depth
- They are available with 3 different interior heights: 2 m, 2.25 m and 2.4 m

The advantages

- A fully modular line
- A robust, top-quality construction
 - Panels custom made in our plant
 - Panel finishing composed of a 120- μ thick layer of stiff, scratch-resistant and humidity-resistant PVC
- Fully equipped as a standard feature:
 - LED lighting
 - Self-defrosting
- Rooms simple and quick to assemble

Use specifications

The Boreal rooms are used to store and conserve bakery products.

Operating principle

The ingredients are stored on shelves or in storage carts inside the room. The conservation temperature is set at -20°C for the Boreal negative temperature rooms.

Construction

Panels

Injected polyurethane foam, density: 42 kg/m³
Galvanized steel lining covered by a food-grade PVC film 120 microns thick
Composed of 30-mm isothermal panels with an insulated 90-mm floor
Reinforced, insulated floor to withstand a 90-mm live load available as an option
Door heating cable and pressure relief valve
Equipped with a strip curtain

Doors

Solid, composition identical to that of the panels, single leaf, reversible on-site
Ergonomic handle
Wear-resistant door jamb hinges

Technical elements

Ceiling-mounted evaporator
Self-defrosting
Automatic shutdown of open-door ventilation
Temperature recorder and safety kit for spaces larger than 10 m³
LED ceiling light fixture triggered by door opening

Assembly

The panels are to be assembled on-site
Assembly of panels by means of edge hooks
It should be noted that a 130-mm drop is required to install a negative temperature room.
An access ramp would be necessary in the absence of an elevation drop.

Negative temperature conservation **Boreal**

Boreal	Negative
Controls	
Basic electronic controls	■
Construction: panels	
Both interior and exterior made with PVC-lined steel	■
Stainless steel interior and PVC exterior	-
Stainless steel interior and exterior	€
Construction: door	
Left door handle	■
Right door handle	□
Reversible door	■
Double-leaf door	-
2 doors on the front	-
2 "tunnel" doors	-
Temperature read out at opposite side in the case tunnel model	-
Interior and exterior protection door bumpers	-
Interior protective bumpers rails	-
Spiral ramp door hinges (raises door while opening)	■
Rack entry : by the small dimension	-
Rack entry : by the large dimension	-
Door heating gasket and pressure relief valve	■
Equipment - fit-out	
Ceiling-mounted evaporator with single-flow technology	■
Ceiling-mounted evaporator with double-flow technology	-
Automatic-defrosting	■
Automatic ventilation shutdown at door opening	■
Ceiling-mounted light fixture triggered by door opening	■
Temperature recorder and safety kit for room volume ≥ 10 m ³	■
Without walk-in floor	-
Insulated walk-in floor, skid resistant, 15-mm thick with its 280-mm deep stainless steel access ramp	-
Insulated, stainless steel walk-in floor, skid resistant, 17-mm thick with its 280-mm deep access ramp	-
Insulated walk-in floor, skid resistant, 90-mm thick	■
Reinforced insulated floor 90-mm thick, for heavy load racks	€
Stainless steel-reinforced access ramp	€
Strip curtain	■
Refrigerating unit	
Standard	■
Remote	€
Tropicalized (recommended option with refrigerants R448A and R449A)	€
Remote and tropicalized (recommended option with refrigerants R448A and R449A)	€
Silent and tropicalized standard unit	€
Silent, remote and tropicalized standard unit	€
Silent, tropicalized PREMIUM unit (SCROLL - refrigerants R404A, R448A, R449A)	€
Silent, remote, tropicalized PREMIUM unit (SCROLL - refrigerants R404A, R448A, R449A)	€
Assembly	
Delivered disassembled	■
Power supply	
400 3PH+N+G 50 Hz	■
440 3PH+N+G 60 Hz	€
208/220 3PH+N+G 60 Hz	€
Other voltage*	€

In case Boreal is to be connected on factory's central refrigeration system: consult us

*Maximum 7-week delivery period for the other voltages.

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Refrigerating equipment							
Boreal		Negative temperature					
Volume	(m³)	> 6,8	6,8 - 10,5	10,5 - 14,2	14,2 - 23	23 - 33	33 - 49
Type of evaporator	Ceiling fixture with enhanced self-defrosting						
Liquid	R404A / R452A / R449A / R448A						
Electrical power	(kW)	6	6	8	0	8	14
Intensity	(A)	8	8	10	0	12	20
Informations relatives au groupe standard							
Type of unit		Piston					Scroll
Voltage	(V / Hz)	TRI 400-440 / 50-60					TRI 380-420 / 50
Refrigeration power at -10°C	(kW)	1,1	1,7	2,1	3,2	3,9	5,9
Information relative to the noise reduction unit							
Voltage	(V / Hz)	TRI 400-440 / 50-60					-
Refrigeration power at -10°C	(kW)	1,1	1,7	2,1	3,2	3,9	-
Information relative to the premium noise reduction unit (Scroll technology - exclusively with refrigerants R404, R448 and R449)							
Voltage	(V / Hz)	Unavailable		TRI 380 -420 / 50			
Refrigeration power at -10°C	(kW)	Unavailable		2,3	3,2	4,86	6,85

Dimensional characteristics						
Type	Exterior dimensions					
	Width (mm)	Depth (mm)	Spacing (mm)	Height (mm)		
				Standard	Floor option	
					90-mm floor or reinforced insulated floor	
Negative	Boreal N200	1900 - 4180	1330 - 3610	190	2220	
	Boreal N225				2482	
	Boreal N240				2632	

Type	Effective interior dimensions					Door			
	Height (mm)	Width (mm)	Depth (mm)	Volume M3	Free clearance between panels (mm)	Maximum height (mm)	Door clearance (mm)	Type of door	
Negative	Boreal N200	2000	1720 - 4000	1115 - 3430	4 - 27,5	690	1800	880	Single door
	Boreal N225	2250				930	1950	1120	
	Boreal N240	2400				930	1950	1120	