



## Walk-in cold room - negative temperature

### Characteristics

- The rooms are characterized by their storage capacity, expressed in m<sup>3</sup>, 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- $\mu$  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/m<sup>3</sup>  
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 m<sup>3</sup>  
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
<b>Controls</b>	
Basic electronic controls	■
<b>Construction: panels</b>	
Both interior and exterior made with PVC-lined steel	■
Stainless steel interior and PVC exterior	-
Stainless steel interior and exterior	€
<b>Construction: door</b>	
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	■
<b>Equipment - fit-out</b>	
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 $\geq 10$ m <sup>3</sup>	■
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	■
<b>Refrigerating unit</b>	
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)	€
<b>Assembly</b>	
Delivered disassembled	■
<b>Power supply</b>	
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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<b>Refrigerating equipment</b>							
<b>Boreal</b>		<b>Negative temperature</b>					
<b>Volume</b>	<b>(m<sup>3</sup>)</b>	> 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
<b>Informations relatives au groupe standard</b>							
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
<b>Information relative to the noise reduction unit</b>							
Voltage	(V / Hz)	TRI 400-440 / 50-60					-
Refrigeration power at -10°C	(kW)	1,1	1,7	2,1	3,2	3,9	-
<b>Information relative to the premium noise reduction unit (Scroll technology - exclusively with refrigerants R404, R448 and R449)</b>							
Voltage	(V / Hz)	Unavailable		TRI 380 -420 / 50			
Refrigeration power at -10°C	(kW)	Unavailable		2,3	3,2	4,86	6,85

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

<b>Type</b>	<b>Effective interior dimensions</b>				<b>Door</b>				
	<b>Height (mm)</b>	<b>Width (mm)</b>	<b>Depth (mm)</b>	<b>Volume M3</b>	<b>Free clearance between panels (mm)</b>	<b>Maximum height (mm)</b>	<b>Door clearance (mm)</b>	<b>Type of door</b>	
<b>Negative</b>	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	