

# BOREAL

Paneotrad® dough retarding & Walk-in cold rooms



Boreal Paneotrad®

[www.bongard.fr](http://www.bongard.fr)

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The conservation-based techniques that call for lowering the temperature of products and foods allows to extend their life cycle and conserve them, depending on the specific temperature, from a few days to several months, while maintaining their taste and nutritional properties.

## BOREAL WALK-IN COLD ROOMS IN POSITIVE / NEGATIVE TEMPERATURES

The line of Boreal walk-in cold rooms in positive/negative temperatures is intended **to conserve and store fresh products on shelves or in racks.**

A broad range of chamber dimensions is available: 109 models offering 3 interior heights (2 m, 2.25 m and 2.40 m), **for a total of 654 models** in order to meet the full array of needs in terms of storage volume as well as available floor area.

### CONSTRUCTION

#### The panels

60-mm thick isothermal panels made of 6/10 galvanized steel for the positive Boreal line and 90-mm thickness for the negative Boreal line.

#### The finishing lining

Interior and exterior finishing composed of a rigid, 120- $\mu$  food-grade PVC lining.

#### The floor

90-mm insulated, skid-resistant walk-in floor for the negative temperature cold rooms Boreal models.

#### The door

Door handles with an unlocking system from the inside.  
Door equipped with a heating gasket and pressure relief valve for the negative temperature walk-in cold rooms Boreal.

#### The lighting

LED light triggered by door opening.

### TECHNOLOGY

#### The evaporator and ventilation

Ceiling-mounted, "single flow" evaporator: powerful ventilation ensures sweeping the chamber's entire interior volume regularly and homogeneously. Ventilation switched off when the door is opened. Automatic defrosting.

#### The controls

Basic electronic controls.  
Temperature recorder and safety kit for room volume  $\geq 10$  m<sup>3</sup> (acoustic and visual alarm).

#### The refrigeration equipment

Various refrigeration unit models are available in order to satisfy both installation and environmental constraints.

# AN EXCELLENT CONSERVATION QUALITY



(2) detail of the hydraulic door-closing mechanism

## Double-flow TECHNOLOGY

Placed at the center of the chamber, the ceiling-mounted, double-flow evaporator suctions ambient air. This air is then cooled and diffused to each side of the cell by means of 2 batteries (1).

This layout makes it possible to sweep the air in a large volume at very low speeds. The air is thus being distributed smoothly and homogeneously, thus guaranteeing a constant relative humidity rate within the chamber.

The dough tubs no longer need to be covered. The quality and softness of the dough are preserved.



(1) détail du plafonnier double flux

# OF THE DOUGH



Interior with protection tracks in option

## BOREAL PANEOTRAD®

The line of Boreal Paneotrad® dough retarding chambers has been **exclusively developed to retard dough in tubs between 12 and 72 hours** or for the slow fermentation of pre-shaped dough pieces.

The Boreal Paneotrad® chambers are characterized by their capacity to store a number of racks dedicated to trays or tubs in dimensions of 400x600 or 600x800.

The chamber configurations are numerous, so as to facilitate installation whatever the layout of bakeries and to accommodate the user's working preferences. For each chamber capacity therefore, it is indeed possible to select: the entry direction and the number of racks, the location and type of door (single or double leaf) on the chamber front.

"Tunnel" chamber solutions are also available.

## A PREMIUM BUILD

### The panels

Isothermal, made of galvanized steel, consisting of a 45 kg/m<sup>3</sup> density foam, the "sandwich" panels are custom built in our plant.

### The panel finishing lining

Shock resistance and resistance to humidity are guaranteed by a high-quality 120-μ, food-grade PVC finish lining.

### The door

A hydraulic door-closing mechanism (🔒) ensures an effective door seal. The door hinges are all equipped with a wear-resistant off-centered joint system. An automated stop mechanism shuts off the ventilation once a door has been opened.

Exterior and interior protections prevent deterioration due to potential shocks of the racks.

### The lighting

Available as an option, a ceiling-mounted LED light fixture with a switch activated at door opening.

### Controls and settings

All Boreal models feature a temperature probe along with an automatic defrost system.

### The floor and the ramp

A 15-mm insulated, skid-resistant floor with a 280-mm reinforced stainless steel ramp is available as an option for the Boreal Paneotrad® product.

### The refrigeration equipment

To equip its Boreal line, Bongard selected the best refrigeration equipment technologies, which are able to adapt to each process and environmental constraint.

Each proposed chamber capacity benefits from the brand's expertise in design terms regarding the exchange surfaces required for optimal management of cold temperatures. The Boreal chambers have thus been designed so as to always guarantee the best dough conservation performance.

### The new PREMIUM silent refrigeration unit

Intended for large-volume chambers, the new compact silent refrigeration system featuring a SCROLL technology resists warmer environments and moreover considerably reduces energy consumption.

All silencer systems come fitted with a pressure regulation device that guarantees a constant temperature, regardless of the exterior air temperature variation.



Keep in mind: Our refrigeration equipment adapts to the changes in refrigerant fluids that help lower greenhouse gas emissions (or reduce the carbon footprint).

# CHARACTERISTICS OF THE PRODUCT LINE

<b>Boreal</b>	Negative	Positive	Paneotrad®
<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 $\geq 10 \text{ m}^3$	■	■	❖
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, 15-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.

■ As a standard feature | □ Option at no charge | € Option against extra charge | ❖ Not available

# ▷ THE BOREAL WALK-IN COLD ROOMS

A Positive or Negative Boreal chamber model is chosen on the basis of the required volume in m<sup>3</sup>.  
 With 109 models available covering 3 internal heights (2000, 2250 or 2400 mm), a width of at least 1115 mm and depth of 1720 mm (incremented by 190 mm), you have nearly 654 models to choose from.

# ▷ THE BOREAL PANEOTRAD® DOUGH RETARDING CHAMBER

A Boreal Paneotrad® chamber is selected based on the number of racks used.

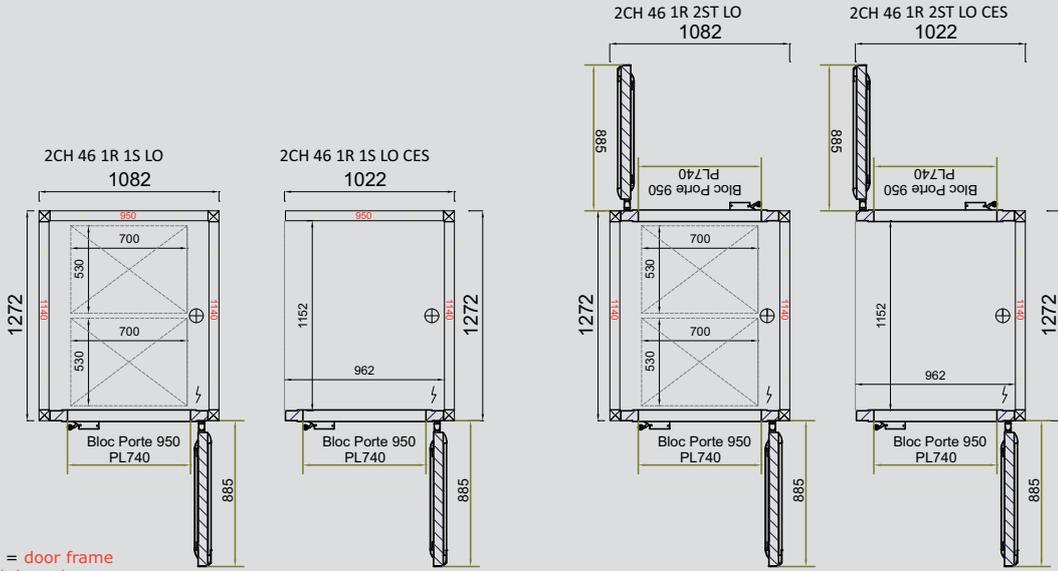
The Boreal Paneotrad line features:

- 58 models for a 400 x 600 rack (from 2 to 8)

- 87 models for a 600 x 800 rack (from 1 to 8)

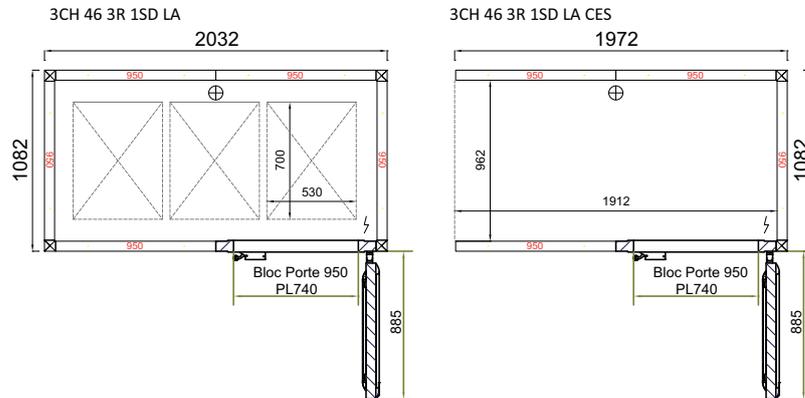
Note: Larger capacities are available upon request.

## EXAMPLE CONFIGURATION 2 RACKS 400X600



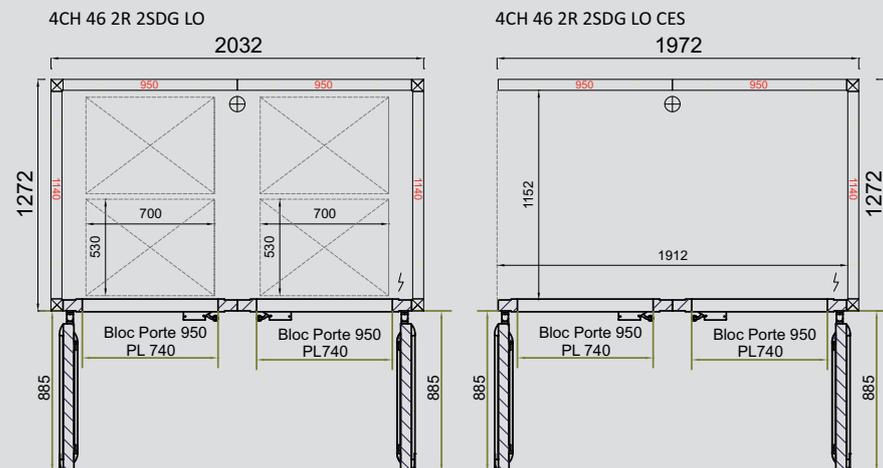
Note:  
 bloc porte = door frame  
 PL= useful door clearance

## EXAMPLE CONFIGURATION 3 RACKS 400X600



Note:  
 bloc porte = door frame  
 PL= useful door clearance

## EXAMPLE CONFIGURATION 4 RACKS 400X600



Note:  
 bloc porte = door frame  
 PL= useful door clearance

CONFIGURATIONS



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