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Télec. : (450) 641-4657

**Toll Free : 1 877 667-2321**

**\*\* IMPORTANT \*\***

**THIS  
DOCUMENT MUST BE RETAINED BY THE  
USER.**

|                       |                                     |           |
|-----------------------|-------------------------------------|-----------|
| <b>OWNER'S MANUAL</b> |                                     | <b>9</b>  |
| 1                     | Description of cold room components | 3         |
| 2                     | Maintenance                         | 4         |
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| <b>APPENDIX</b>       |                                     | <b>10</b> |

## 1. DESCRIPTION OF COLD ROOM COMPONENTS *(Some of the listed components are optional)*

### 1.1 PRESSURE-RELIEF VALVE

- 1.1.1 The heated pressure relief valve balances the internal and external pressure of the room. This valve is generally located above the freezer door.



### 1.2 LIGHTING

- 1.2.1
- Incandescent lighting type may be supplied with a wire cage globe protector (Standard or NSF).
  - The cage protects the glass globe from impacts.
  - The incandescent fixture without globe protection has a plastic protective film that prevents any glass from shattering.
  - Standard domestic light bulbs (Max. 100 watts) or compact fluorescents for exterior purposes may be used.
- 1.2.2 Fluorescent type lighting can be supplied. The replacement tubes are type T5HO – 54 Watts – 48” long.



#### **Important**

- The calibration of the thermometers should always be checked by a refrigeration specialist at boot.



### 1.3 THERMOMETER

- 1.3.1
- A dial thermometer (standard), mounted on the door frame, indicates temperature in Celsius and Fahrenheit.
  - Although this device is calibrated in the factory, an adjustment screw in the center of the dial enables on-site adjustment. You must remove the glass dial face to adjust.
  - The temperature should always be verified.
- 1.3.2
- A digital thermometer is also offered as an option. It is powered by solar energy.
  - A light source must be present to ensure the display on this thermometer.
  - You can change the display from Celsius to Fahrenheit by unscrewing the face plate and switching the lever inside.
- 1.3.3 If cold room is equipped with an Intelligence module, please refer to 1.4 sections.

### 1.4 I.3 MODULE (OPTIONAL)

- 1.4.1 This product is capable of lighting control, thermometer and alarm functions. See attached Appendix for a detailed description of all functionality and programming procedures. Note that the intelligence module does not set or control room temperatures.

## 2. MAINTENANCE

### 2.1 FREQUENTLY

- 2.1.1 Panels must be cleaned with a soft cloth and soap (**PH level close to 8 cleaner**). Panel must not be in contact with corrosive agents.
- 2.1.2 If a high pressure washer is used, do not apply water jet directly to silicone joints.
- 2.1.3 To avoid deterioration of heater cable, do not shoot water under door sill plate.

### 2.2 EVERY MONTH

- 2.2.1 Check the pressure-relief valve. The valve comes with an inside flap that opens and closes when a pressure variation occurs within the room.
- 2.2.2 Verify door heater cable on the door perimeter. If cable is functioning normally the door frame will be slightly hot (on freezer door).
- 2.2.3 Verify thermometer precision and adjust if necessary.

### 2.3 EVERY 6 MONTHS

- 2.3.1 Lubricate hardware (door hardware, etc.). Use white all-purpose grease (preferably lithium base). Door hinges with nylon cams do not require lubrication.
- 2.3.2 Verify if silicone needs replacement, if so, remove old silicone and replace it.

### 2.4 EVERY 6 MONTHS TO 1 YEAR: MAINTENANCE TO DO BY A REFRIGERATION CONTRACTOR

- 2.4.1 Verify the refrigeration cycle.
- 2.4.2 Verify condenser fins. (Air-cooled unit)
- 2.4.3 Verify evaporator coil fins.
- 2.4.4 Verify evaporator drains line and pan.
- 2.4.5 Regularly verify the proximity of the refrigeration unit to avoid aspiration of dirt in the condenser (air-cooled unit).

### 3. REFRIGERATION SYSTEM

#### 3.1 SYSTEMS DESCRIPTION

- 3.1.1 The Pro3 : The main feature of this air-cooled refrigeration system is its air diffuser mounted flush with the ceiling. This unit does not require a condensate drain line. **See the unit's User guide for more information.**



- 3.1.2 The conventional air-cooled refrigeration unit can easily be recognized by its condenser coil. **This is the most common refrigeration type and requires adequate ventilation to ensure normal functioning.** This system is to be connected to a separate evaporator coil (located inside cold room).



- 3.1.3 The conventional water-cooled refrigeration unit may be recognized by its coolant coil. This unit must be fed a continuous water supply in order to function properly. It is used in tight and under-ventilated areas. This system is to be connected to a separate evaporator coil (located inside cold room).



- 3.1.4 Conventional refrigeration units may be mounted on top of the cold room, in a mechanical room or outside the building (air-cooled unit only).

#### 3.2 OPERATING ENVIRONMENT AND CONDITIONS

##### 3.2.1 Air-cooled system

- 3.2.1.1 The customer must provide adequate ventilation around the condenser to evacuate heat rejected from the unit. The condenser intake temperature must not exceed 32°C/90°F.
- 3.2.1.2 The condenser's heat rejection is the quantity of heat released in the course of cooling the mechanical components and the refrigerant.

##### 3.2.2 Water-cooled system

- 3.2.2.1 The customer must install all plumbing necessary to supply the system with the required quantity of clean cool water. Water flow and pressure must be sufficient to allow temperature control at the water outlet by adjusting water valve. Water outlet temperature must be a maximum of 35°C/95°F to minimize scaling.

#### 3.3 EVAPORATOR CLEARANCE

- 3.3.1 To ensure adequate ventilation, it is essential that a minimum clearance of 15 cm (6") be respected between the evaporator and the shelves as well as the wall on either side. In addition, do not place anything between the back of the evaporator and the wall behind it. Should these clearances not be provided, the evaporator will not operate properly and will frost up more quickly.



- 3.3.2 **Non-compliance with the above conditions will result in faulty operation of the unit and, ultimately, component damage which will not be covered by the warranty.**

### 3.4 **DEVICE ADJUSTMENTS**

#### 3.4.1 **THERMOSTAT**



- 3.4.1.1 The cold rooms temperature is thermostatically controlled (degrees Fahrenheit or Celsius). This device is placed in one of the following locations: inside, behind the cold room's evaporator, or outside. The thermostat must be adjusted to the right temperature according to the client's needs.

#### 3.4.2 **DEFROST CYCLE CLOCK**



- 3.4.2.1 The defrost cycles are programmed by the installer during installation.  
3.4.2.2 The refrigerator defrost program is set for three 45-minute defrost cycles, while the freezer defrost program is set for four 1-hour cycles a day. Please note that the preset parameters may be changed to suit actual operating conditions.

#### 3.4.3 **INTELLIREF (optional)**



- 3.4.3.1 The intelliref is an electronic, factory-installed module that controls the temperature and the defrost cycle. It replaces the thermostat and the defrost cycle clock.  
3.4.3.2 The temperature probe is factory installed at the evaporator air return.

#### 3.4.4 **EVAPORATOR DRAIN**

- 3.4.4.1 The condensation formed in the coil of conventional refrigeration systems must be evacuated through a copper drain line that is 13-20mm ( $\frac{1}{2}$ "- $\frac{3}{4}$ "") in diameter. This drain line must have a "P" trap to prevent foul sewer odors and humidity from seeping into the cold room. A cleaning outlet must also be provided to enable drain maintenance. Freezer room drain lines must be heated to prevent ice from forming. Care must also be taken to install the "P" trap outside the freezer room since the trap always contains water\*.

\*Please note that the drain line is not part of the cold room installation package. It must be installed by a plumbing contractor.

## 4. WARRANTY AND REPAIRS

### 4.1 WARRANTY

4.1.1 Refer to the attached copy of our warranty.

### 4.2 REPAIRS

4.2.1 In view of the highly technical nature of the product, it is strongly recommended that the customer contact the proper service company. The contact information of the installer are located outside of the cold room on a sticker.



## 5. TROUBLESHOOTING

### ! BEFORE CALLING US

CALL THE INSTALLER. THEIR NUMBER IS ON A STICKER SHOW IN 4.2.1.

IF YOU NEED TO CALL US, MAKE SURE YOU HAVE YOUR NORBEC PROJECT NUMBER. THIS NUMBER IS LOCATED INSIDE OF THE ROOM BELOW THE DOOR FRAME. (SEE IMAGE)

#### 24 hours Telephone service

1-877-NORBEC1(1-877-667-2321)

Cold-Room Warranty Calls

450-449-1499 (or 1-877-667-2321) Ext. 295

or 268

Refrigeration Warranty Calls

450-449-1499 (or 1-877-667-2321) Ext. 274

PIECES

450-449-1499 Ext. 232

#### SYSTÈMES NORBEC INC.

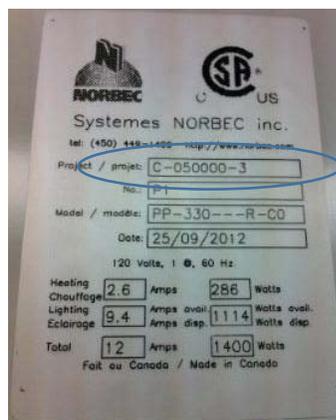
97, RUE DE VAUDREUIL

BOUCHERVILLE (QUÉBEC) J4B 1K7

TÉL. : (450) 449-1499

TÉLÉC. (450)-641-4657

TOLL FREE: (877) 667-2321



|  |                                  |
|--|----------------------------------|
| # Projet / Project #   | 111                              |
| Tag ident. / ID Tag  | P1                               |
| # Modèle / Model #   | PP-330                           |
| Date   | 2016-04-05                       |
|  | AMPS      WATTS                  |
| Chauffage intégré au Cadre<br>Heating Integrated in Frame            | 0,7      180,8                   |
| Disponible pour Éclairage externe<br>Available for external Lighting | 11,3      1259,2<br>Max      Max |
| <b>120V, 1 Phase, 60 Hz</b>  |                                  |

## WHAT THE CUSTOMER CAN DO

### Cold Room Accessories

| PROBLEMS                                       | CAUSES   | POSSIBLE SOLUTIONS   |
|--|--|--|
| The freezer door jamb ices over.               | Door jamb heater cable is not functioning.                   | The circuit breaker is shut or defective (have it checked by a qualified electrician).                       |
|  |  | The heater wire is defective (contact Norbec's Customer Service Department).                                 |
| The freezer door is hard to open.              | Pressure-relief valve is defective or blocked.               | Check to see if there is any ice in the valve.   |
|  |  | Check that the valve is connected to a power source.   |
|  |  | Check that the valve is receiving power.   |
| The light burns out often.                     | Door needs adjusting.  | Have the door adjusted by an approved technician (contact Norbec's Customer Service Department).             |
|  | Not sealed properly.   | Have an electrician check the electrical installation.   |
|  | Incorrect type of bulb is being used.                        | Replace the bulb with the appropriate type.  |
|  | Electrical circuit is defective or shorted out.              | Have an electrician check the electrical installation.   |
| Lamp casing is damaged.                        |  |  |
| Water seeps into the lighting fixture's globe. | Gasket between the base and the globe is missing or damaged. | Install a new gasket (contact Norbec's Customer Service Department).   |
|  | Power cable inlet is insufficiently insulated.               | Fill the cable inlet with sealant or insulation material (may be done from inside or outside the cold room). |

## REFRIGERATION SYSTEM

| PROBLEMS  | CAUSES  | POSSIBLE SOLUTIONS  |
|---|---|---|
| The cold room temperature is too high.                | Thermostat is improperly set.   | Change the thermostat setting (see point 3 of the refrigeration system section in this User Manual).  |
|   | Condenser's air intake temperature is too high (air-cooled systems).  | Check the air cooler's intake temperature with a thermometer. If it is above 32°C / 90°F, install adequate mechanical ventilation to ensure that air intake temperature remains below 32°C/ 90°F.   |
|   | Defrost Cycle is running.   | It is normal for the temperature to rise during defrost cycles. If necessary, change the timing of the defrost cycles (see point 3 of the refrigeration system section in this User Manual).  |
|   | Heat source is located too close to the cold room.  | The unit is designed to function under normal ambient conditions, i.e. 32°C / 90°F. Remove all heat sources, such as wash stands, stoves and ovens, from the vicinity of the cold room. Increasing ventilation can also help to solve this problem. |
|   | Cold room is subjected to excessive traffic.  | While the system's capabilities are designed to take into account frequent traffic, it is possible that the doors remain open too long. Strive to reduce how often and how long the doors are opened.   |
| The evaporator is full of ice.                        | Cold room contains overly warm products (The temperature of the new order of prepared food which was just received is more than 5°F above the specified temperature). | The cold room is designed to maintain the specified temperature. However, no load is provided for cooling foods at temperatures that are more than 5°F above the specified temperature.   |
|   | Refrigerator temperature is too close to freezing.  | Change the thermostat setting (See point 3 of the Refrigeration System section in this User Manual).  |
|   | Two few defrost cycles were set or cycles are too short.  | Add a defrost cycle or lengthen the current cycles (See point 3 of the refrigeration system section in this User Manual).   |
|   | Back, sides and/or underside of the evaporator are obstructed.  | Remove anything that may be obstructing the evaporator's sides, back or underside.  |
| Water is dripping from the evaporator onto the floor. | Drain is frozen.  | Check whether the heater cable is functioning and has been correctly installed.   |
|   | Evaporator drain is incorrectly installed.  | Check connections for watertightness.   |
|   |   | Check the drainage slope.   |
|   | Drain is blocked.   | Have the drain cleaned.   |

## OPERATING AND CONFIGURING INSTRUCTIONS



### OPTION



1. Panic Alarm Buzzer
2. Battery (9 Volt) Holder
3. Display
4. High Tem alarm Button
5. Light Switch Button
6. Set Button
7. Low Temp Alarm Button
8. Up Button (and Mute)
9. Down Button
10. Loud annunciator
11. Mute Button

## DESCRIPTION FOR EACH FEATURE

### Activation & disabling the module

Before being delivered to the customer, the module is disabled. The "OFF" message is displayed on the screen. When the module is disabled, only the alarms and temperature displays are deactivated. It is always possible to control the lighting manually or automatically, with the door (See "lighting Control"). Note that all the initial parameters and those modified by the customer are stored in memory when the module is disabled.

Refer to "keypad Operation" section on how to enable and disable the module.

### Temperature monitoring and display

The unit displays the temperature in degrees Celcius. Should one or more alarms be present, the display will show the temperature and the alarm message(s) alternatively.

### Lighting control

The lighting is controlled two different ways;

1. By pressing the button on the keypad, which will switch alternatively ON and OFF.
2. By detecting the opening of the door, which will turn the lights ON and the closing door will initiate a 5 minute countdown. The light will then go OFF after this delay.

### Temperature Alarms

These alarms are activated 45 minutes (adjustable, see «parameter descriptions» after reaching the temperature alarm settings. An audible alarm (about 55 dB) from the keypad will then occur. The display will show the message HA (High Temp Alarm) Or LA \*Low Temp Alarm), alternatively with the actual temperature. The 115 Volt alarm signal will turn ON.

The High and Low temperature alarm setting and the activation delay can be modified in the parameters menu.

### Door Open Alarm

If the door remains open for more than 15 minutes (adjustable, see « parameter descriptions»), this alarm is triggered and an audible alarm from the keypad will occur. The display will show the message dA (Door Open Alarm), alternatively with the actual temperature. The 115 Volt alarm signal will turn ON.

## DESCRIPTION FOR EACH FEATURE (Cont'd.)

### Panic Alarm

This alarm is triggered by an interior backlit button, besides the door opening. When pressing this button, an audible alarm (about 80 dB) from the keypad and from the external grey buzzer will occur. The display will also show the message EA (External Alarm) alternatively with the actual temperature. The 115 Volt alarm signal will turn ON. **This alarm will be active as long as the panic button is pressed.**

Note that the gray external buzzer connected to the emergency alarm is powered only by the battery backup power. It is important to periodically check the condition of the battery and the backup power. It is important to periodically check the condition of the battery and the backup power because once the battery dies, no external sound signal will be triggered with the activation of the emergency alarm push button.

### Muting an alarm

Pressing the "Silent" button  on the keyboard (top left), during an alarm, will mute the audible signal but the associated alarm message and the 115 Volt signal will remain until the alarm condition disappears.

## OPTIONS

### Alarm Annunciator

This additional buzzer (about 90dB) is ideally suited for hearing any of the I3 alarms in a noisy environment. It is muted independently from the keyboard Buzzer, by its own Mute button. This annunciator is not supported by the back-up battery.

Note that at the request of the client on site, this additional audible warning can be surface mounted to the desired location (see I3 wiring diagrams for details). Without special request, it will be installed near the I3 Intelligence module.

### Fan failure alarm

When a ventilation system circulates air in concealed spaces around the exterior of walk-in cold rooms, optional sensors can be supplied to monitor the presence of air flow on each blower. If air flow stops, the system triggers an audible alarm and displays a message on the keypad. The display will also show the message EA (External Alarm) alternatively with the actual temperature. Without grey external alarm (Different from Panic Alarm).

The 115 Volt alarm signal will be active as long as the failure exists. When this alarm is ON, the Alarm LED on the left of the display will ON.

### Battery back-up

The 9 Volt battery holder is located just above the controller. In normal condition, an alkaline battery should maintain the temperature display and the alarm messages in operation during power outages for 24 hours, depending on the battery condition. **As this battery is not rechargeable, it shall be replaced yearly or every time there is a power outage lasting more than one hour.**

The battery only supports the controller display and the local Panic Alarm, Via the grey buzzer. This battery's condition must be checked periodically.

The external 115 Volt alarm signal is not supported by this battery back-up. If it is a requirement to have an external alarm signal on power outages, the Dry Contact signal option, with proper parameter settings, is required to achieve this functionality.

### Three way switch for lighting

This option allows to control lighting through two different doors. The three-way switch for lighting can be in automatic or manual mode. For each lighting mode, cable configurations and, positioning of hardware and distinct metrication is required. You must refer to the I3 wiring diagrams for the proper electrical connection according to the lighting mode selected. By default, the three-way witch is in automatic mode. The configuration in three ways manual mode is only on demand.

Noe that the open door alarm will be disabled with the three-way switch for manual lighting.

### Dry Contact for External Alarm signal

The standard external alarm is a 115 Voltsignal. As an option, It can be converted to a dry contact (Normally Closed) that opens an alarm signal (see I2 wiring diagrams for more details). This option also includes a normally open contact if it needs to be.

### Glycerin Immersion

Having the temperature probe immersed in glycerin prevents rising temperature readings and false temperature alarms due to the opening of the door.

## KEYPAD OPERATION



Press 1 second to activate the module. Press 5 seconds to disable the mode. The message OFF is displayed on the screen when the module is disabled.



Switch ON and OFF the light fixture.

Press to see the HIGH Temp ALARM setting (ALU parameter)



Press for 3 seconds to enter a new value for the HIGH Temp ALARM (ALU displayed), then press the Up-Down Buttons for proper setting and then press the Set button to confirm and exit.



Press to see the LOW Temp ALARM setting (ALL parameter)



Press for 3 seconds to enter a new value for the LOW Temp ALARM (**ALL displayed**), then press the Up-Down Buttons for proper setting and then press the Set button to confirm and exit.



Press to increase the displayed value, in programming mode.

**Press to mute the local buzzer when an ALARM occurs.**



Press to decrease the displayed value, in programming mode.



Press for 3 seconds to lock the keyboard (The "POF" message will be displayed).

Press for 3 seconds again to unlock.

## Silencing buzzer

Once the alarm signal is detected, the buzzer can be muted by pressing the  key. The alarm message and the 120V message will be displayed until the alarm condition is reset.

## PARAMETERS SETTING

1. Enter the Programming Mode by pressing the  +  keys for 3 seconds and the LED  will start blinking.
2. Select the required parameter by using the  or  keys.
3. Press the  key to display its value (now only the LED  is blinking).
4. Use  or  to change its value
5. Press  to store the new value and move to the next parameter.

**To exit:** Press  +  or wait 15 seconds without pressing a key.

NOTE: The set value is stored upon its recording, even when the procedure is not completed by exiting the configuration menu.

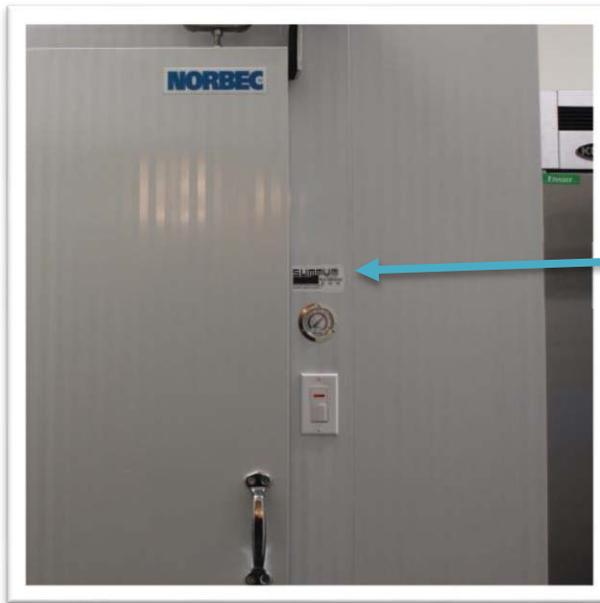
The factory settings are as follows:

| PARAMETER  | DESCRIPTION  | PRESET VALUE (By default) | RANGE                  |
|------------|--|---------------------------|------------------------|
| <b>ALU</b> | High temperature alarm setting                         | C: 6°C F: -12°C           | « ALL » value to 150°C |
| <b>ALL</b> | Low temperature alarm setting                          | C: 0°C F: -25°C           | -50°C to « ALU » value |
| <b>Ald</b> | Temperature alarm delay                                | 45                        | 0 – 255 (min)          |
| <b>LHt</b> | Light timer, start after door closing                  | 5                         | 0 – 255 (min)          |
| <b>doA</b> | Door open alarm delay (timer start after door opening) | 15                        | 0 – 255 (min)          |
| <b>Ot</b>  | Temperature probe calibration                          | 0                         | - 12°C à 12°C          |

## ALARM MESSAGE DESCRIPTIONS

| MESSAGE    | MODE                        | CAUSE   |
|------------|-----------------------------|---|
| <b>P1</b>  | Flashing                    | Probe failure   |
| <b>PoF</b> | Flashing (3s)               | Keyboard locked   |
| <b>Pon</b> | Flashing (3s)               | Keyboard unlocked   |
| <b>HA</b>  | Alternated with temperature | High Temperature Alarm  |
| <b>LA</b>  | Alternated with temperature | Low Temperature Alarm   |
| <b>dA</b>  | Alternated with temperature | Door open Alarm   |
| <b>EA</b>  | Alternated with temperature | Panic Alarm (Message and gray signal alarm ) Or<br>Fan failure alarm (message only) |
| <b>Pan</b> | Alternate with temperature  | Serious external Alarm  |

## Preventive Maintenance on Walk-in Cooler/Freezer Refrigeration Systems



 For service :

**WARNING**  
IT IS MANDATORY FOR  
REFRIGERATION CONTRACTOR  
TO APPLY CONTACT INFORMATION  
HERE

**NORBEC™** For further assistance  
Tel. 1 877 667-2321

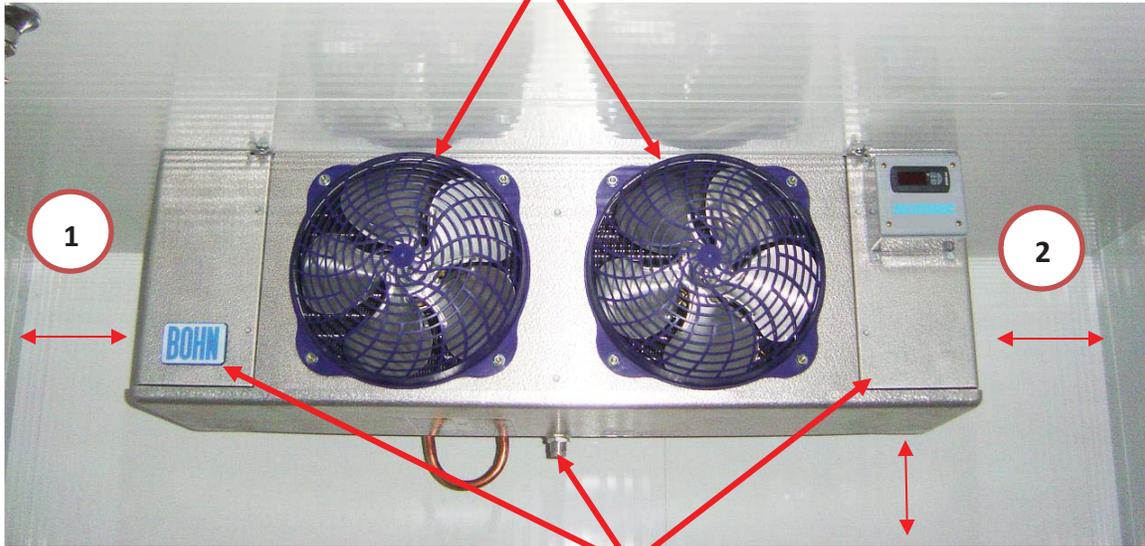


In order to minimize the risk of refrigeration failure and potential food loss, the following procedure should be strictly followed:

1. The temperature of the walk-ins should be monitored daily, both at the beginning and at the end of each working shift.
2. Do not leave door open unnecessarily, specifically when receiving products.
3. Product shall not block air flow from the evaporator fans within the walk-in cooler. There shall be a clearance all around the evaporator (see Note 2 on picture below) in order to prevent ice buildup on the fins in the back.
4. The refrigeration system is factory preset, only a **qualified refrigeration technician** should modify the settings.
5. If the condensing unit is located outside on the roof, it should be inspected a minimum of 6 months to 1 year for dirt or debris accumulation on the fin coil and cleaned by a **qualified technician**. Special attention to the falling leaves during the fall season and cotton wood in bloom during the spring season (See Note 3 on picture below).
6. If the condensing unit is located inside the building, it should be inspected at intervals of 6 months to 1 year (please refer to article 2.4 of the owner's manual).
7. The entire refrigeration system should have preventive maintenance by a **qualified refrigeration technician** on a yearly basis. The original refrigeration installer will gladly offer a service contract.

## Maintenance Tips

**Note 1:** Keep the front completely cleared for proper air flow and to prevent ice build-up.



**Note 2:** The arrows " ↔ " indicate to keep adequate space for air circulation.

**Note 3 (IMPORTANT):** If there is water dripping from the drain pan, a service call to the installator is necessary.

## Condenser-Compressor unit

**Spring:** Cotton wood in bloom.

**Fall:** Falling leaves.

Condensing unit fins need to be cleaned when required or a minimum of two times a year by a qualified technician.

**Important:** Failure due to clogged condensing units will void the warranty.



## Instructions for Service Calls on Warranty

Prior to contacting Norbec's Customer Support for a temperature rise, the following should be verified:

- The evaporator is not on a defrost cycle, which rise the temperature momentarily (See above picture and instructions for defrost status on display).
- The walk-in door hasn't been left open for a long period of time.
- There is power on the temperature controller inside the walk-in (See if temperature display is "ON" on the evaporator)

**In order to prevent food loss while the refrigeration system is in failure, please leave the walk-in door closed until the system is repaired.**

**During regular business hours 7:30 AM to 5:00 PM, (Eastern Time)**

For any failure, please call your installator. **This number is located on the sticker shown at the beginning of this document. After hours, for refrigeration failure only (when product loss is a possibility).**

Only for failure with food loss possibility, please call Norbec Toll free number at 1-877-667-2321 (450-449-1499), and dial **8** to reach Norbec's after-hours service (24 hours/7 days a week). In the unlikely event that there is no return from the above service, the customer is authorized to call the service company of his choice.



QAI Dossier / file #: B1111

CLASSIFIED BUILDING UNITS (COMPOSITE TYPE)  
 SURFACE BURNING CHARACTERISTICS  
 Classified as to surface burning characteristics in accordance  
 with the standard CAN / ULC-S102 , ASTM-E84 and ULC S138

UNITÉ DE BÂTIMENT CLASSÉ (TYPE COMPOSITE)  
 CARACTÉRISTIQUES DE COMBUSTION SUPERFICIELLE  
 Classé par caractéristiques de combustion superficielle conformément  
 aux standards CAN / ULC-S102, ASTM-E84 et ULC S138

Classification or rating  
 Classement ou notation

LISTED / ÉNUMÉRÉS

Material details  
Détails des matériaux

Flame spread  
Propagation de la flamme

Smoke developed  
Dégagement de fumée

CAN/ULC-S 102  
 NORBEC

Finished panels / Panneaux finis  
 Polyurethane foam core / Noyau en mousse polyuréthane  
 127 mm maximum

10  
 265

450  
 350

ASTM E-84  
 NORBEC

Finished panels / Panneaux finis  
 Polyurethane foam core / Noyau en mousse polyuréthane  
 127 mm maximum

Less than 25  
 Less than 25

Less than 450  
 Less than 450

CAN/ULC S138  
 NORBEC

With pprinkler / Avec gicleur d'incendie  
 Temperature rating sprinkler heads: 68°C / Tête de gicleur à déclenchement: 68°C  
 Minimum flow rate 60 L/min each square meter / Débit minimum 60 L/min. par mètre carré

Insulated building panel for use with sprinkler protection  
 Polyurethane sandwich panels with the following metal skins:  
 Painted galvanized steel, Plain galvanized steel or stainless steel,  
 .018" minimum thickness.

(CAN / ULC S138)

Panneau de bâtiment isolé à utiliser avec gicleur d'incendie  
 Panneau sandwich de polyuréthane avec fini de métaux suivants:  
 Acier galvanisé prépeint, Acier galvanisé ou acier inoxydable,  
 Épaisseur minimum .018"

(CAN / ULC S138)

Systemes Norbec inc. Boucherville, Qc, Canada





97, de Vaudreuil, Boucherville, Quebec, Canada, J4B 1K7  
Tel.: (450) 449-1499 Fax: (450) 641-4657  
Email: info@norbec.com

**MANUFACTURER'S WARRANTY, COLD ROOMS**

The warranty described hereinafter cancels and supersedes all other warranties pertaining to the compliance, suitability and durability of the product and its manufacturing materials.

This warranty is granted exclusively to the original purchaser and is, therefore, non-transferable.

SYSTÈMES NORBEC INC., as the product's manufacturer, warrants its product to be free of any defect or faulty manufacture, including delamination, for a period of five (5) years from the date of installation or 45 days after delivery, whichever is the earliest. Accessories, such as handles, hinges, heater wires, thermometers, etc., are covered for a period of one year. All refrigeration material is covered by a separate warranty, if applicable.

Labour required for repair or replacement of parts is under warranty for a period of one year.

All other products or equipment sold by SYSTÈMES NORBEC INC. but manufactured by a third party shall be covered by the warranty of the third party company.

No other warranty or commitment are expressed or implied. This warranty is applicable solely to products manufactured by SYSTÈMES NORBEC INC and installed in Canada. An inspection, satisfactory to SYSTÈMES NORBEC INC., shall determine if a defect becomes a condition to apply this warranty.

This warranty shall not apply in cases where a product is damaged as a consequence of abusive utilization, misuse, improper installation, negligence or modified without the authorization of SYSTÈMES NORBEC INC. This warranty shall not apply in cases where damages to the product result from an act of god or force majeure such as an earthquake, tornado, etc., nor in cases where said damages result from structural problems or events of any nature that are not caused directly by the intrinsic quality of the product under warranty. This warranty shall apply only to the extent that the warranted product has not been altered, changed, damaged nor exposed to conditions that may affect its characteristics.

It is an essential condition to the applicability of this warranty that the installation complies with the assembly details delivered with the panels under warranty, and that said details be strictly adhered to in keeping with the recommendations of SYSTÈMES NORBEC INC., failing which, this warranty will be deemed null and void.

This warranty, if applicable, is and shall be limited to the replacement value of the product under warranty, after depreciation as of the date of replacement, and shall expressly exclude labour costs or expenses, other than those required to replace the defective components, such as but not limited to: labour, travel and living expenses when the product is installed in a remote area, peripheral work related to the replacement, equipment rental expenses or costs relating to any consequential or incidental damages, including but not limited to, loss of revenue, loss of sales, loss of goods or property of any nature whatsoever that shall or may result from a fault or a manufacturing or design defect. In any case, SYSTÈMES NORBEC INC's liability shall not exceed the original purchase price of the sold manufactured equipment.

This warranty shall be interpreted and governed according to the laws applicable in the province of Quebec, Canada. Any litigation shall be submitted in the court of Quebec, district of Longueuil.

**THIS WARRANTY COVERAGE IS NON-TRANSFERABLE**

**Warranty Certificate #:**

**Contract #:**

**Effective date:**

**Sold to:**

**Beneficiary:**



97, de Vaudreuil, Boucherville, Québec, Canada, J4B 1K7

Tél.: (450) 449-1499 Fax: (450) 641-4657  
Courriel : info@norbec.com

**SUPPLIER WARRANTY ON REFRIGERATION SYSTEMS**

The warranty described hereinafter cancels and supersedes all other warranties pertaining to the compliance, suitability and durability of the product and its component materials. This warranty is granted exclusively to the original purchaser and is, therefore, non-transferable.

SYSTÈMES NORBEC INC., as the product's supplier, warrants the refrigeration system sold to be free of any defect or faulty manufacture, for a period of one (1) year from the date of installation or 45 days after delivery, whichever is the earliest. This warranty is applicable only in Canada.

SYSTÈMES NORBEC INC. will supply free of charge any component parts found to be defective for a period of one year. The labour required for replacing any defective parts under warranty is covered by SYSTÈMES NORBEC INC., only if the installation workmanship (either at the factory or on site) is covered in the present scope.

The initial installation workmanship is covered by the warranty for a period of one year, only if included in the present scope.

Should the compressor be subject to and extended 4 years warranty (5 years total) and found to be defective within such period, it will be replaced free of charge. The labour required to replace the compressor during the extended period is not covered by the warranty. The replacement compressor will then be warranted for the remaining period covered by the present warranty, providing that the filter-dryer has proven to be replaced at the same time.

Any claim shall be made within 30 days of the repair. Any parts to be replaced under warranty must be made available in exchange for the replacement part. Should a service call be performed by a service contractor not certified by SYSTÈMES NORBEC INC., warranted service work will be paid according to Norbec's service rates and policies.

No other warranty or commitment are expressed or implied. This warranty is applicable solely to refrigeration products supplied by SYSTÈMES NORBEC INC and installed in Canada. An inspection, satisfactory to SYSTÈMES NORBEC INC., shall determine if a defect becomes a condition to apply this warranty.

This warranty shall not apply in cases where a product is damaged as a consequence of abusive utilization, misuse, improper installation, negligence or modified without the authorization of SYSTÈMES NORBEC INC. This warranty shall not apply in cases where the condensing unit was not properly ventilated, insufficient supply of cooling water or failure to provide regular maintenance and service to the system(s). This warranty shall not apply in cases where damages to the product result from an act of god or force majeure such as an earthquake, tornado, etc., nor in cases where said damages result from structural problems or events of any nature that are not caused directly by the intrinsic quality of the product under warranty. This warranty shall apply only to the extent that the warranted product has not been altered, changed, damaged nor exposed to conditions that may affect its characteristics.

It is an essential condition to the applicability of this warranty that the installation complies with the instructions delivered with the system under warranty, and that said instructions are strictly adhered to in keeping with the recommendations of SYSTÈMES NORBEC INC. A refrigeration system start-up report, completed by a certified technician must be provided to SYSTÈMES NORBEC INC. failing which, this warranty will be deemed null and void.

This warranty, if applicable, is and shall be limited to the replacement value of the product under warranty, after depreciation as of the date of replacement, and shall expressly exclude labour costs or expenses, other than those required to replace the defective components, such as but not limited to: labour, travel and living expenses when the product is installed in a remote area, peripheral work related to the replacement, equipment rental expenses or costs relating to any consequential or incidental damages, including but not limited to, loss of revenue, loss of sales, loss of goods or property of any nature whatsoever that shall or may result from a fault or a manufacturing or design defect. In any case, SYSTÈMES NORBEC INC's liability shall not exceed the original purchase price of the sold manufactured equipment.

This warranty shall be interpreted and governed according to the laws applicable in the province of Quebec, Canada. Any litigation shall be submitted in the court of Quebec, district of Longueuil.

**THIS WARRANTY COVERAGE IS NON-TRANSFERRABLE**

**Certificate of Warranty #:**  
**Contract #:**  
**Effective date:**  
**Sold to:**  
**Beneficiary:**

**SCOPE OF THE WARRANTY**

- Material only**
- Material and Installation**

**COMPRESSOR COVERAGE**

- One year**
- Five years**