### INSTALLATION AND MAINTENANCE MANUAL

# MICHIGAN SOLID LINES





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### Index

EEC DEC	CLARATION OF CONFORMITY
SAFETY	ADVICE 4
1.	GENERAL INFORMATION7
1.1.	DESCRIPTION OF REFRIGERATED DISPLAY CABINET
1.2.	GENERAL CHARACTERISTICS
1.3.	TECHNICAL INFORMATION AND ACCESS TO EPREL 10
1.4.	SHOP CONDITIONS 10
1.5. COMPAR	FIXATION OF THE RECOMMENDED TEMPERATURE IN EACH
1.6.	OPERATING THE COOLING SYSTEM
1.7.	RECEIPT OF REFRIGERATED CABINET
1.7.	DAMAGE SUSTAINED IN TRANSIT
1.8.	TECHNICAL ASSISTANCE
1.9.	STORAGE
2.	INTALLATION OF REFRIGERATED DISPLAY CABINET
2.1.	CABINET LOCATION
2.1.	UPACKING
2.2.	LEVELLING
2.3.	ELECTRICAL CONNECTION
2.4.	CLEANING
2.J. 3.	OPERATION
3.1.	INITIAL START-UP
3.2.	CAREL ELECTRONIC CONTROLLER
3.3.	ELLIWELL ELECTRONIC CONTROLLER
3.4.	LIGHTING
3.5.	PRODUCT LOADING AND PRESERVATION
4.	MAINTENANCE AND CLEANING
4.1.	GENERIC CLEANING ROUTINE
4.2.	INTERNAL CLEANING PROCEDURE
4.3.	CONDENSER CLEANING PROCEDURE
4.4.	SLIDING DOORS MAINTENANCE
4.5.	REPLACING LAMPS
5.	SPARE PARTS REQUEST
6.	FAULTS AND REPAIRS
6.1.	MALFUNCTIONS
6.1.1.	THE UNIT DOESN'T START UP OR IT STOPS:

#### INSTALLATION AND MAINTENANCE MANUAL

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6.1.2.	THE UNIT DOES NOT GET COLD ENOUGH:	24
6.2.	FINAL SHUTDOWN	26
6.3.	DISMANTLING THE CABINET	26
6.4.	DECLARTION OF ROHS CONFORMITY	27
7.	GUARANTEE	27

## DECLARACIÓN DE CONFORMIDAD CE

EC Declaration of Conformity/Déclaration de confomité CE/Konformitätserklärung/Conformiteitsverklaring

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Nosotros, los abajo firmantes, We, the undersigned, Nous, signataires du texte ci-dessous Wir, di Unterzeichner, Wii, adrospetenden		
Wij, ondergetekenden, Fabricante / Manufacturer / H	ersteller / Fabrikant	Frost-trol, S.A.
Dirección / Address / Adresse		Avda. del Castell Vell, 176;
	/ Aules.	12004 Castellón
País / <i>Country / Land / Land:</i> Teléfono / <i>Phone number / Te</i>	lefonnumer /	España/Spain/Espagne/Spanien/Spanje
Telefoonnummer:		0034 964 34 27 40
Fax / Fax number / Faxnumm	er / Faxnummer:	0034 964 21 51 48
declaramos bajo nuestra sola responsabilidad que los productos a que se refier		- ,
declare under our sole responsibility that the products to which this declaration	-	
déclarons sous notre seule résponsabilité que les produits concernant cette déc		
erklären hiermit in alleiniger Verantwortung, dass die Produkte auf die sich die verklaren onder eigen verantwoordelijkheid dat de producten op deze verklarir		
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<ul> <li>Sistemas de Refrigeración y Bombas de Calor. Requisitos de Seg Refrigerating systems and heat pumps. Safety and environmental require et pompes à chaleur - Exigences de sécurité et d'environnement / Kält Sicherheitstechnische und umweltrelevante Anforderungen / Koelsy Veeleisende van Veiligheid en Milieu</li> </ul>	ements / Systèmes frigorifiques eanlagen und Wärmepumpen -	UNE-EN 378-1:2008+A1:2011 UNE-EN 378-2:2008+A1:2009 UNE-EN 378-3:2008 UNE-EN 378:2008.
<ul> <li>Muebles frigoríficos comerciales / Refrigerated display cabinets / Merciales Verkaufskühlmöbel / Commerciële koeling kasten</li> </ul>	ubles frigorifiques de vente /	UNE-EN ISO 23953-1:2015 UNE-EN ISO 23953-2:2015
<ul> <li>Aparatos electrodomésticos y análogos / Household and similar ele électrodomestiques et analogues / Sicherheit elektrischer Geräte für o Zwecke / Huishoudelijke en soortgelijke elektrische toestellen – Veiligheid</li> </ul>		EN 60335-2-89:2010 EN 60335-2-89/A1:2016 EN 60335-1:2012 EN 60335-1/A11:2014
<ul> <li>Seguridad de las máquinas. Requisitos de higiene para el diseño de las m Hygiene requirements for the design of machinery / Sécurité des mach l'hygiène lors de la conception des machines</li> </ul>		UNE-EN ISO 14159:2008
<ul> <li>Seguridad de las máquinas. Principios de diseño ergonómico. Parte generales. Parte 2: Interacciones entre el diseño de las máquinas y las machinery - Ergonomic design principles. Part 2: Interactions between the tasks - Part 1: Terminology and general principles / Sécurité des machine conception - Partie 1: Terminologie et principes généraux. Principes ergon 2: Interactions entre la conception des machines et les tâches du travail</li> </ul>	tareas de trabajo. / Safety of e design of machinery and work es - Principes ergonomiques de	UNE-EN 614-1:2006+A1:2009 UNE-EN 614-2:2001+A1:2008
Modelo:	Nombre y cargo del expeditor:	
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Modell:	Nom et fonction de l'émetteur:	Fast- Trol Sal
Model:	Name und Position desErstellers	Tel. 964 342 740 - Fax 964 215 148
Número de serie: Serial number:		Ctra. Valencia-Barcelona, Km. 68'9 Apdo.55 -12004 CASTELLON - España
Numéro de série:		
Seriennummer: Serienummer:		Jorge Patiño Pérez, Technical Manager

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#### SAFETY ADVICE



This cabinet contains flammable refrigerant R290.

<u>^</u>

The maximum load for each shelf is 160kg/m2.



The refrigerated display cabinet must not be installed in places where explosive gases are present. Do not expose the equipment to atmospheric agents.



Packaging materials (plastic bags, nails, screws, polystyrene, etc.) should not be left within reach of children as they pose potential sources of danger.

Poor levelling could result in problems with the drainage of water resulting from defrosting, which could cause the unit to break down.

It's mandatory to leave 8cm between the cabinet rear wall and the supermarket wall to ensure the airflow.



Keep clear of obstructions all ventilation openings of the cabinet enclosure.

Don't use metallic or cutting objects to accelerate the defrost process. It may scratch or damage inner surfaces.

3		
	!	

Gloves should be worn to protect hands when cleaning inside the evaporator and the condenser. This will protect hands against possible cuts or scratches from the unit's internal elements.

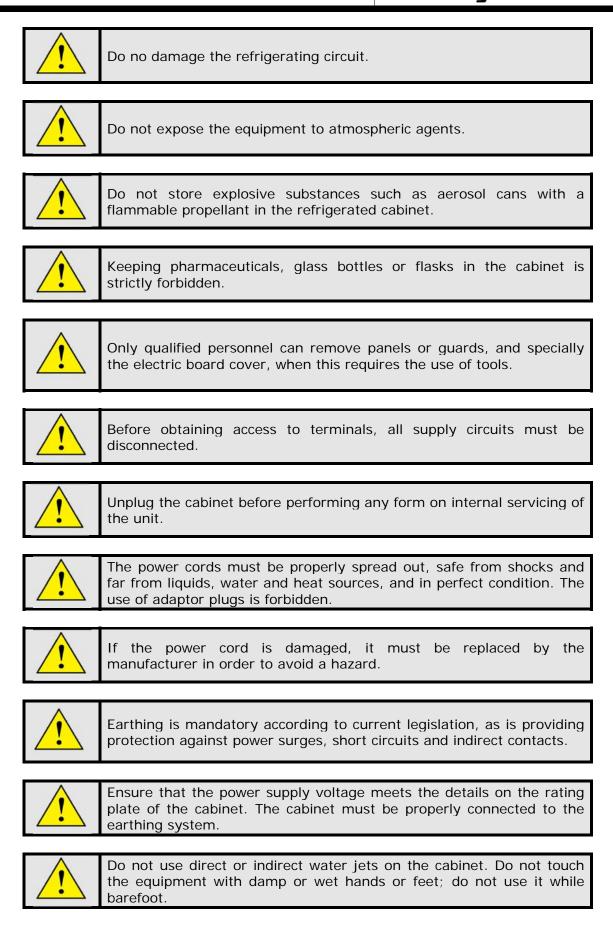


Make sure that the drainage holes are not obstructed by any remaining merchandise, as this could impede the drainage of excess water resulting from defrosting.

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It is completely forbidden to perforate the cabinet. If this occur, it could create irreparable damages.

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If you wish to stick adhesive signs onto the cabinet, only use thin foil. Do not lay thick insulating layers on the external walls of the equipment as this could compromise cabinet performance.

In order to reduce flammability-related risks, this cabinet may only be installed by suitably qualified personnel.

Product that you load into the cabinet must always be cooled to at least the cabinet's conservation temperature. The cabinet is not able to reduce the temperature of products, only conserve them.



Gloves should be worn during product loading operations.



Any other use not explicitly mentioned in this handbook must be considered as hazardous. The manufacturer disclaims all liability for damage resulting from improper, incorrect or unreasonable use.

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#### 1. GENERAL INFORMATION

Welcome to the new series of plug-in refrigerated display cabinets from Frost-trol for the sale of perishable food products. We are delighted by your decision to choose us.

This assembly and maintenance manual has been especially designed with a view to assist maintenance staff by facilitating the installation of these cabinets, thus making their task more pleasant, as well as to gain optimal productivity from these units and also so that the Marketing Director is able to gain the maximum commercial return possible.

**Read this manual carefully and store it with the refrigeration unit.** Pay particular attention to the sections that emphasize your safety. Follow these instructions to ensure that the unit will run smoothly and its life span may be long and productive.

The A-weighted emission sound pressure level is below 70dB(A).



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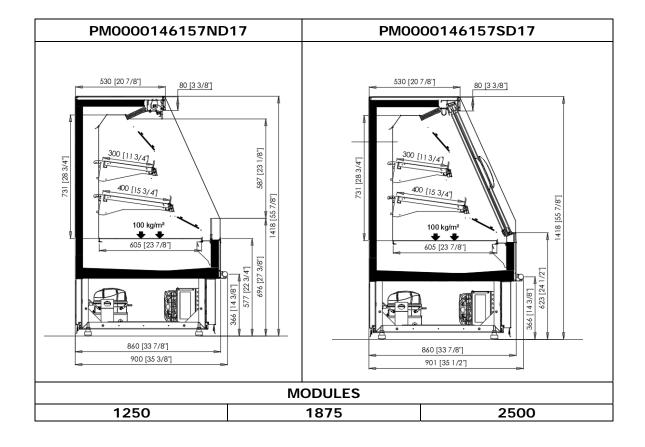


#### 1.1. DESCRIPTION OF REFRIGERATED DISPLAY CABINET

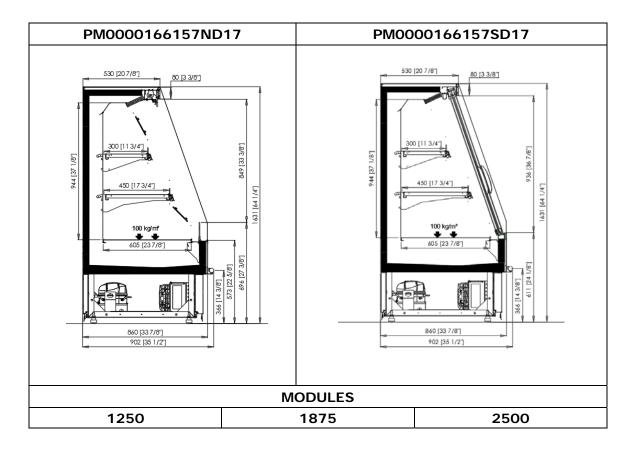
Michigan is a refrigerated semi-vertical self-service multideck display cabinet that operates with positive temperatures. It is ideal for the preservation and sale of refrigerated products.

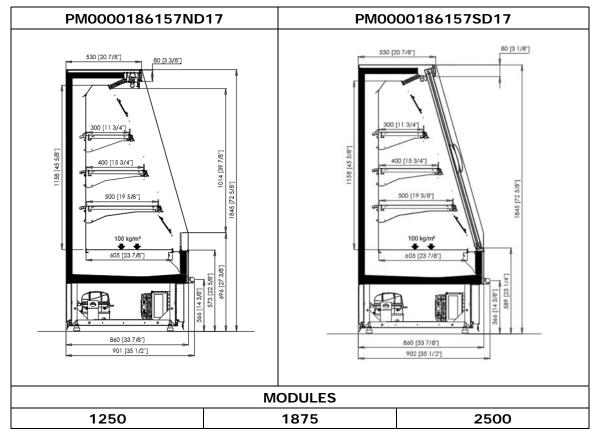
The cabinet has a wide range of optional accessories. If you need details about its assemblage, please contact with Frost-trol, S.A.

#### 1.2. GENERAL CHARACTERISTICS



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#### 1.3. TECHNICAL INFORMATION AND ACCESS TO EPREL

Effective 1 March 2021, it will be possible to search for the energy labels and information data sheets on the EPREL database.

EPREL is the European product database for energy labelling according to the 2019/2018 Regulation (EU) that establishes the minimum energy efficiency standards of refrigerating cabinets.

The label provides information on the annual consumption of the appliance, the TDA values and the maximum and minimum product temperature.

In order to access the EPREL database, you can either scan the QR code from the energy label provided with the appliance or access the EPREL website and introduce the model identifier (see Table 1).

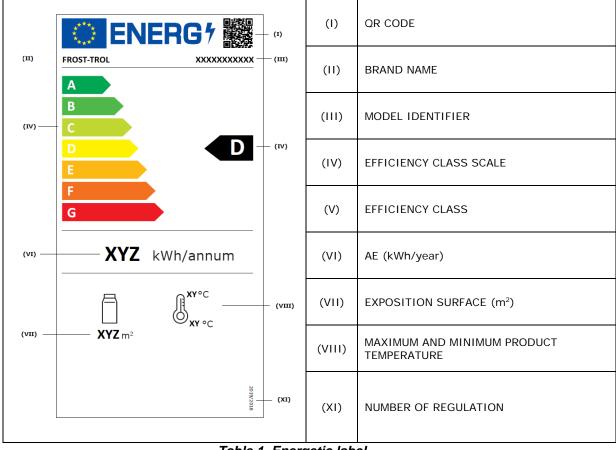


Table 1. Energetic label

#### 1.4. SHOP CONDITIONS

Frost-trol refrigerated display cabinets are designed to operate in air-conditioned areas that maintain an air temperature of 25° C and a maximum relative humidity of 60 % (climate class 3, in accordance with ISO EN 23953-2). The performance of the refrigerated display cabinet is adversely affected when operated under air

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temperatures and humidity conditions that are higher than those for which they have been designed.

#### 1.5. FIXATION OF THE RECOMMENDED TEMPERATURE IN EACH COMPARTIMENT

Each cabinet, depending on the model and its options, is technically defined by a different temperature depending on the application and it's designed for preserving a certain type of product.

TEMPERATURE CLASS	TEMPERATURE OF APPLICATION	MAXIMUM TEMPERATURE OF THE HOTTEST PRODUCT	MINIMUM TEMPERATURE OF THE COLDEST PRODUCT
	[°C]	[°C]	[°C]
МО	0/1	+4	-1
M1	0/+2	+5	-1
M2	+2/+4	+7	-1
H2	+4/+8	+10	-1

Table 2. Temperature depending on class for refrigeration cabinets.

TEMPERATURE CLASS	TEMPERATURE OF APPLICATION	MAXIMUM TEMPERATURE OF THE HOTTEST PRODUCT	MINIMUM TEMPERATURE OF THE COLDEST PRODUCT
	[°C]	[°C]	[°C]
L1	-15/-18	-15	-18
L2	-12/-18	-12	-18
L3	-12/-15	-12	-15

Table 3. Temperature depending on class for freezing cabinets.

#### 1.6. OPERATING THE COOLING SYSTEM

The condensing unit requires an air temperature of at least 20°C and a maximum of 30°C for efficient ventilation of the condenser. The minimum temperature of the condenser should never fall below 20°C.

#### **1.7. RECEIPT OF REFRIGERATED CABINET**

Check the unit carefully to make sure that it is not damaged and no part or accessory is missing. For information about missing parts or accessories please contact the Frost-Trol Commercial Department or our official representative for your country.

This refrigerated display cabinet has been thoroughly inspected to ensure the highest level of quality. Any order for components should be made to Frost-Trol or

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our official representative for your country within 48 hours of receipt of the cabinet.

#### 1.8. DAMAGE SUSTAINED IN TRANSIT

If the cabinet has sustained any damage in transit, then you must make a claim with the Shipping Company immediately, by stating the damage on the delivery note and having this signed by the carrier.

#### 1.9. TECHNICAL ASSISTANCE

Should you have any technical queries concerning the installation of the refrigerated display cabinet or cooling system, please contact our Technical Department.

If you need to get in contact with Frost-Trol with regard to a specific element, please make sure that you are able to quote the model and serial number. This information can be found on the nameplate, which is located inside the refrigerated display cabinet.

#### 1.10. STORAGE

Do not storage the cabinet outdoors; do not expose to climatic conditions or to direct sunlight.

The cabinet with plastic cover may reach temperatures above 80° C in the sun, which might result in the deformation of plastic parts.

Check the good condition of the packaging before storing the cabinet.



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#### 2. INTALLATION OF REFRIGERATED DISPLAY CABINET

Handling operations and installation of the cabinet are reserved for skilled person.

#### 2.1. CABINET LOCATION

Consult the Construction Manager or the person responsible for the installation of unit. Ask them to inform you of its installation location or if there are any changes to where it is to be installed.

Check that the installation location chosen is suitable. To do this, make sure that there is no air flow present, as this could affect the units by blowing hot air into them. The unit must not be installed near air conditioning air discharge openings, ventilators, doors or other machines that, due to their location, could expel warm air from their condensing units into the cabinet or onto its condensing unit.



The refrigerated display cabinet must not be installed in places where explosive gases are present. Do not expose the equipment to atmospheric agents.

If the chosen location is not suitable for the installation of the cabinet, inform the Construction Manager or the person responsible for the supermarket accordingly, so that they can either specify another location or make the necessary modifications that would make the original location suitable (closure of air vents, removal of ventilators, closure of doors, etc.).

During the installation (or while carrying out maintenance) you must always wear proper safety equipment to preserve your security.



It's mandatory to leave 8cm between the cabinet rear wall and the supermarket wall to ensure the airflow.





Keep the condensing unit openings free from obstructions.

#### 2.2. UPACKING

#### Unpacking is reserved for skilled personnel.

The refrigerated cabinet is protected by plastic wrapping. Remove this and take out the accessories which can be found inside the cabinet:

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Using a fork-lift truck or pallet-lift, lift the cabinet, remove the wooden or plastic supports and replace them with the plastics bases that can be found inside the cabinet with the other accessories.



Packaging materials (plastic bags, nails, screws, polystyrene, etc.) should not be left within reach of children as they pose potential sources of danger.

#### 2.3. LEVELLING

Use the adjustable bases to level the unit. Poor levelling could result in problems with the defrost-water drainage, which could then freeze and thus cause the unit to break down.



Poor levelling could result in problems with the drainage of water resulting from defrosting, which could cause the unit to break down.

#### IMPORTANT!

The surfaces that the lines are to be placed on may not be perfectly horizontal. Therefore it would be best to first take the section of line that is to be placed onto the highest part of the surface and screw its adjustable bases to their smallest possible heights whilst allowing the section to remain horizontal. This will ensure that the bases on the end sections do not need to be excessively extended.

#### 2.4. ELECTRICAL CONNECTION

The assembly, installation and connection of these cabinets must be carried out by a certified technician.

Before obtaining access to terminals, all supply circuits must be disconnected.

Consult the circuit diagrams that are supplied with each cabinet when carrying out the electrical connections and observe all of your country's safety regulations in full.



For the electrical connection it is mandatory to incorporate a switch disconnector in accordance with installation regulation. This switch has to be directly connected to supply terminals and has to be able to provide full disconnection in all poles under overvoltage Category III conditions.

Before plugging into the mains, check that the supply voltage is the same as the voltage indicated on the nameplate. The electricity supply should be adequate for maximum consumption.

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The power cords must be properly spread out, safe from shocks and far from liquids, water and heat sources, and in perfect condition. The use of adaptor plugs is forbidden.



If the power cord is damaged, it must be replaced by the manufacturer in order to avoid a hazard.

Technical cabinet data are showed in the nameplate (see Chapter 5). Electric diagrams are in the electric box inside a plastic package.



Earthing is mandatory according to current legislation, as is providing protection against power surges, short circuits and indirect contacts.

#### 2.5. CLEANING

Before the first use, it's mandatory to clean the unit thoroughly, both inside and out, with non-abrasive detergents and rinse well with water. Dry the inside with a cloth so that no water remains inside the unit (see Chapter 4).

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#### 3. OPERATION

#### 3.1. INITIAL START-UP

Before starting up the unit, allow at least one hour to pass in order to let the oil levels to stabilize, as they would have been displaced during transportation.

Connect the cabinet to the mains and the display will light up showing two horizontal strips. These indicate that the control is conducting a self-test.

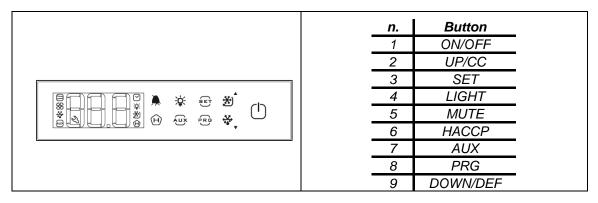
After approximately 5 seconds the temperature that has been read by the control will appear on the display and the unit will actuate itself.

The temperature controls and defrost times that we recommend for each cabinet are based on our experience and laboratory tests. Different air conditions could require controls that are different from those recommended.

# The control components may only be operated by the technician responsible for the installation.

The functions available to users are shutdown, start-up of the unit from the circuit board and the start-up of the lighting from its corresponding switches.

#### 3.2. CAREL ELECTRONIC CONTROLLER



mute <b>Prg</b>	Press for more than 5s: Access to "F" parameters (frequent).	def	Press for more than 5s: Activates manual defrost
aux	Press for more than 1s: Activates/desactivates the auxiliar output.	Set	Press for more than 1s: Shows or establishes set point.
Prg + Set	Press for more than 5s: Access to "C" parameters (condiguration).	<b>I</b> IGHT	Press for more than 1s: Activates/desactivates the second auxiliar output.

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+	Press for more than 5s: Reset all the alarms with manual reset.			
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Table 4. Carel electronic controller.

#### 3.3. ELLIWELL ELECTRONIC CONTROLLER

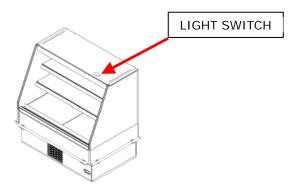


Fig. 1. Elliwell display.

*	UP Press and release: Move inside the menu Values increase	0	STAND-BY (ESC) Press and release: Takes you one level higher Confirms a parameter value
	Press at least during 5 seg:		Press at least during 5 seg:
	Actives Manual Defrosting		Actives Stand-by
			(when not inside the menu)
*	DOWN Press and release:	SET	SET (ENTER) Press and release:
	Move inside the menu		Visualizes posible alarms (if there are
	Values decrease		alarms)
			Access to the menu State of the
	Press at least during 5 seg:		Appliance
	Function configurable by the user		
	(par.H32)		Press at least during 5 seg:
			Access to programming menu
			Confirms orders

#### 3.4. LIGHTING

There is a switch located in the top part of the cabinet.



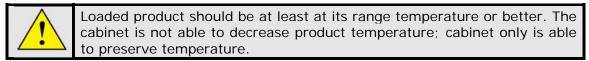
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-18-

#### 3.5. PRODUCT LOADING AND PRESERVATION

Please, don't load product before three hours since starting up the cabinet. Anycase, always check the working temperature before loading products inside.



Please note the following points when loading the cabinet:

- Do not exceed the maximum load limit;
- Do not obstruct the aspiration grid or air discharge conduits;
- Do not load products that have higher temperatures than the cabinet's operating temperature;
- Load the products into the cabinet in such a way that you can ensure good stock rotation;
- Empty spaces should be left between products to ensure perfect air circulation around them.



Gloves should be worn when loading products into the cabinet.



The cabinet doors should be closed as long as possible. In this way, excessive energy consumptions as well as frost buildup on the inner walls will be avoided.

An improper preservation temperature may turn the foodstuffs into something harmful for the consumer's health and facilitate germ and toxin spreading. The preservation period will depend on the type of product and the storage temperature.

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#### 4. MAINTENANCE AND CLEANING



Unplug the cabinet before performing any form on internal servicing of the unit.

# Any maintenance operation not described in these instructions must be done by authorized personnel.

Perishable products are sensitive to the bacteria proliferation. Therefore, cabinet cleaning has to be made following next generic rules.

Establish a routine cleaning schedule to ensure an adequate level of hygiene of your cabinet. In this way you will ensure an optimal performance of the cabinet and a longer service life.

ТҮРЕ	ZONE	PÉRIODICITÉ
CLEANING	EXTERNAL PARTS	WEEKLY
CLEANING	INNER PARTS	MONTHLY
CLEANING	CONDENSER	MONTHLY
MAINTENANCE	DOORS	MONTHLY
CLEANING	GENERAL	EVERY 2 OR 3
CLEANING	GENERAL	MONTHS

Tabla 5. Cleaning routine



Do not allow any water to spatter or be sprayed over the unit's electrical elements. Should this happen, make sure that they are dry before the unit is started up again.

If cabinet has to be shutoff for a long time, take out perishable products located inside, switch-off the unit and then, clean the cabinet following the procedure described before. Finally, leave the doors half-open to avoid unpleasant smells.

#### IMPORTANT!



The components of the refrigerating circuit must not be cut or separated.

#### 4.1. GENERIC CLEANING ROUTINE

Clean the cabinet with non-abrasive detergents. Cleaning products have to be suitable for use with foodstuffs. Ensure a good rinse to remove all detergent remnants. After the cabinet cleaning, rinse and dry it with a nonabrasive dry cloth until no water remains.

Never use products which contain alcohol, solvents, acetone or chlorine. Avoid the use of metallic brushes.

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For glass surfaces cleaning, use specific products for it. Water use, will carry on calcareous deposits. For cleaning the fixed glass, pleas follow the procedure described in the next section.

#### 4.2. INTERNAL CLEANING PROCEDURE

To ensure an adequate level of hygiene of your cabinet you must clean and disinfect the inner parts of the cabinet almost every 30 days. To do so :

- Remove the cabinet products and put i tonto an adequate cold storage.
- Apply a defrost.
- Wait until the inner cabinet parts reach ambient temperature and no frost rests remain.



The inside of the cabinet must not be cleaned using water jets.



Don't use metallic or cutting objects to accelerate the process. It may scratch or damage inner surfaces.

- Clean inner parts with warm water and neutral soap.
- Dry the surface with a soft cloth.
- Ensures all the surface are well dried.
- Close the cabinet doors and switch on the cabinet.
- Wait until cabinet temperature is correct before loading product inside.

Cleaning procedures **never** must be made in the presence of products.



Gloves should be worn to protect hands when cleaning inside the evaporator and the condenser. This will protect hands against possible cuts or scratches from the unit's internal elements.



Make sure that the drainage holes are not obstructed by any remaining merchandise, as this could impede the drainage of excess water resulting from defrosting.

#### 4.3. CONDENSER CLEANING PROCEDURE

An inadequate cleaning of condenser will lead to increased energy consumption and could also cause the compressor break down.

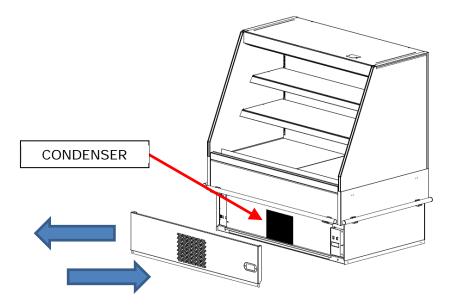


Gloves should be worn to protect hands against cuts or scratches from the unit's internal elements.

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For avoiding the residues from building up on the surface of the condenser, it must be brushed or vacuumed at least once a month by following this procedure:

- Unplug the unit from the mains
- Remove the front grille carefully
- Use a soft nonmetal brush or a vacuum cleaner
- Mount and the front grill
- Finally, plug de cabinet

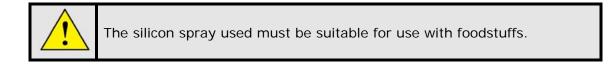


The condenser's coil must be cleaned 12 times a year. Otherwise, the efficiency of the appliance might drop significantly.

#### 4.4. SLIDING DOORS MAINTENANCE

In order to ensure the proper and easy sliding operation, you must apply every 30 days (or whenever it proves necessary to do so) silicon spray on the door rail profiles.

Furthermore, check during the weekly cleaning routine that there aren't any harmful residues in the sliding rails. Also check that rubber seals are correctly fitted.



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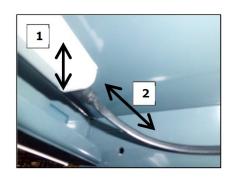


#### 4.5. REPLACING LAMPS



Unplug the cabinet before performing any form on internal servicing of the unit.

Lamps are fixed to cabinet with magnetic supports. To replace them, it is simply necessary to pull them down (1) and disconnect the cable from the power in cable (2) and replace them with tubes of the same characteristics.



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#### 5. SPARE PARTS REQUEST

Before contacting the Spare Parts Department, kindly compile the following information:

Model \*:

Cabinet series number \*:

Manufacture year \*:

Part number according to spare parts cross-section \*\*:

Length of the part (if applicable):

Colour of the part (if painted):

Left of right (if necessary) \*\*\*:

Quantity:

\*The series number is indicated inside the refrigerated cabinet, on the characteristics plate.

\*\* Taking the customer's standing position as a reference.

\*\*\* You may request to Frost-trol the spare parts cross-section.

(frast-tra	<b>1</b> 🛞		C€	REFRIGERANT:		
Manufactured by Frost-trol, S.A. Avda. del Castel Vel, 176 -12004 - Castellón – Spain			REFRIGERANT CHARGE CIRC. 1:			
			REFRIGERANT CHARGE CIRC. 2:	kg		
MODEL:		YEAR:		MAX PRESSURE:	kPa (bar)	] <u> </u>
Nº		W. ORD ER :		OP ERATING TEMPERATURE:		°C
VOLTAGE:	$ m v$ $\sim$			CLIMATIC CLASS:		
FREQUENCY:	Hz			IN SULATION BLOWING GAS:		
MAXIMU M COLD POWER: A W		W	IN DEX PROTECTION:			
MAXIMU M DEFROST POWER: A V		W	Read installation and main tenance manual available at:		1 e <sup>2</sup>	
LIGHTING POWER: A		W	www.frost-trol.com		- K	
		•		or calling: +34 964 34 27 40		

Tabla 6. Name plate

According to point 2 in the Annex II from the Regulation 2019/2024 (Ecodesign), the following components will be available as spare parts for at least eight years from the moment that the last unit of the model enters the market: Thermostats, starting relays, defrosting heating resistors, temperature sensors, software and firmware, circuit plaques, light sources, door hinges and handles, remote controls, levers and buttons, gaskets, racks, crates and stands for storage. For other components, consult availability.

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#### 6. FAULTS AND REPAIRS

#### 6.1. MALFUNCTIONS

In the event of malfunction, the operator should take all necessary measures to prevent the products from deteriorating.

#### 6.1.1. THE UNIT DOESN'T START UP OR IT STOPS:

- Check that the electricity supply is sufficient.
- Check the status of electrical protection systems.
- Check the plugs.

If the malfunction is not due to any of the above causes, call immediately to the after-sales department and store the foods in cold rooms to ensure the preservation of the product temperature.

#### 6.1.2. THE UNIT DOES NOT GET COLD ENOUGH:

- Check that the cabinet has been correctly loaded, i.e. the products do not exceed the maximum load limit and the conservation temperature is suitable for the products;
- Check that there is no air flow that will affect the operation of the unit;
- Check that condenser is free of dust or any other material that could impede air circulation;
- Check the doors and plastic profiles status;
- Check the cabinet level;
- Check the configuration of the electronic controller;
- Check the climatic conditions.

#### If the malfunction is not due to any of the above causes, call immediately to the after-sales department and store the foods in cold rooms to ensure the preservation of the product temperature.

In case of malfunctioning, the following information is completely necessary to find the reasons of the trouble and suggest the solution for it:



Cabinet model, serial number and manufacturing date (in the case name plate):

Store conditions (RH in %, room temperature):

If there are any air draughts affecting the cabinet (doors, air conditioners, other plug in cabinets near, etc.) (a handmade drawing or photos could be appreciated);

Thermostat setting:

Defrost interval:

Defrost endurance time:

End defrost temperatura:

State of the fans on defrost cycle (on ? off?):

Evaporating pressure (measured at the cabinet, on the Schrader valve):

Supply air temperature (measured at the honeycomb or air grids):

Return air temperature (at the return air grid or glass, depending on the model:

Line voltage measured at the cabinet's terminal board (for plug in):

Compressor amps (for plug in):

Defrost heaters amps (when it's mounted):

Other details, or photos, that could help will redound to find a quicker solution.

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#### 6.2. FINAL SHUTDOWN

We, Frost-trol SA, declare this product is covered by Directive 2002/96/CE (Waste Electrical and Electronic Equipment) designed to halt the increase of this type of waste and promote recycling as well as decreasing disposal.

The symbol of the crossed-out waste bin that appears on the Nameplate declares:

- that the product was put in circulation after 13th August 2005;
- that the product is subject to separate collection and must not be treated like normal domestic waste or sent to dumps for disposal.



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This cabinet contains refrigerant, polyurethane foam, oil, plastic and metallic, electric and electronic elements. Therefore its destruction or recovery should be carried out in accordance with current legislation at an authorised waste dumping ground. Parts that form the refrigeration circuit must not be cut or separated until the refrigerant has been removed for recovery.

Therefore, when the cabinet has reached the end of its working life and thus needs to be removed, the user is required to deliver the product for disposal to the collection centre specified by the local authorities for recovery and recycling of professional WEEE.

In the case of trade-in of the old product for a new one, the user can ask the seller to take delivery of the old one, no matter what the brand.

The manufacturer is responsible for making recovery, disposal and treatment of its products feasible at the end of their useful life, either directly or via a collective system.

Violations of the regulation call for specific sanctions, to be established autonomously by each EU member country with its own legislation, binding equally on all those subject to its laws.

#### 6.3. DISMANTLING THE CABINET

In accordance with the waste disposal regulations in each country and in respect of the environment, please differentiate the parts of the cabinet so as to be able to dispose of them separately or recycle them adequately.

None of the parts that make up the cabinet can be disposed of together with urban solid waste, except for the metallic components which, in any case, are not classified as special waste in most European countries.



Parts that form the refrigeration circuit must not be cut or separated until the refrigerant has been removed for recovery at a specialized centre.



Because of its flammability R290 refrigerant requires special cares during the dismantling process of the cabinet. Rooms must be well ventilated, sparks mustn't be done and personnel involved must be speciallized.

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Difusión Restringida Interna			-26-



#### 6.4. DECLARTION OF ROHS CONFORMITY

We, Frost-trol, S.A. declare under our sole responsibility that the refrigerated cabinet complies with the provisions of Directive 2002/96/EEC (RoHS). In all the homogeneous materials used for its production, any content of lead, mercury, hexavalent chrome, polybrominated biphenyl (PBB), and polybrominated diphenil ether (PBDE) does not exceed, in weight 0.1%; that of cadmium does not exceed, in weight 0.01%. This declaration is based on declaration of our raw materials suppliers.

#### 7. GUARANTEE

The guarantee is established for a duration of 12 months.

Any use of the appliance different from those specified in this manual will be considered as dangerous and/or inadequate. The manufacturer eludes all responsibilities derived from an inappropriate, incorrect or unreasonable use.

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#### Frost-trol, S.A.

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