



INSTRUCTIONS MANUAL Refrigeration

7350.0035/0040/0045
7350.0050/0055/0060



Translated from the original user manual

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1. GENERALITIES

This document allows you to install, use and make the most efficient use of the device. Keep it for future reference.

Follow the instructions and recommendations below.

Dimensions are in mm when not referenced.

The illustrations shown may not fully correspond to the models installed.

This appliance is intended exclusively for the display and refrigeration of packaged food products in commercial or similar spaces. Any other use is considered improper. The manufacturer accepts no liability for improper use.

The appliance must not be installed higher than 2000m above sea level.

This manual is available at www.combisteel.com

The information contained in this document is valid at the time of publication. We reserve the right to change the content of this document without prior notice.

2. SAFETY

2.1 SYMBOLS AND SIGNAL WORDS USED

The signal words indicate the consequence that may result if the prevention measures are not respected.

The following signal words are defined and can be used in the manual:

DANGER

DANGER means that serious or fatal personal injury will occur.

CAUTION

CAUTION means that serious and fatal bodily injury can occur.

WARNING

WARNING means that minor to medium bodily injury may occur.

NOTE!

NOTE! This means that material damage may occur.

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Important information that does not pose a danger to people or property is marked with the information symbol.

The following table indicates the meaning of the symbols used in this manual or on the device:

Symbol	Meaning
	General danger signal
	Warning about electrical voltage
	Warning about flammable substances
	Warning regarding low temperatures or freezing
	Hot surface warning
	No walking in designated area
	Open flame prohibited
	Load limit
	Safety shoes required
	Protective gloves required
	Unplug from electrical outlet
	Observe manual
	Lighting
	Important information
	Equipotential bonding
	Regulated collection of end-of-life electrical appliances

2.2 GENERAL SAFETY INSTRUCTIONS

The safety instructions must be observed. Failure to do so may result in material damage, physical injury or death.

DANGER

This appliance may be used by children aged 8 and over and persons with reduced physical, sensory or mental capabilities, or by persons without experience or knowledge if they have been given supervision or instruction concerning use of the appliance in a safe manner and understand the hazards involved.

Children should not play with the appliance.

Cleaning and user maintenance must not be carried out by unsupervised children.

CAUTION

Warning Labels

The instructions and recommendations on the appliance must never be removed or covered and must remain legible throughout the service life of the appliance.

Replace damaged or illegible instruction or recommendation stickers immediately.

CAUTION

This appliance contains a small amount of R290 refrigerant gas (propane), which although environmentally friendly, is flammable. A refrigerant leak can cause an explosive gas/air mixture.

CAUTION

Keep the ventilation openings of the appliance and the structure in which it may be recessed unobstructed.

CAUTION

Do not store explosive substances such as aerosols containing flammable propellant gases in this appliance.

CAUTION

Never remove ice that may accumulate inside the appliance with spatulas, metal knives or other mechanical devices.

CAUTION

Be careful not to damage the pipes in the cooling circuit.

CAUTION

Do not use steam or jets of water to clean the appliance, or spray water on electrical boxes or components.

CAUTION

Before carrying out any cleaning or maintenance work, unplug the appliance from the mains socket.

WARNING

Do not use electrical equipment inside the appliance.

2.3 MANUFACTURER RESPONSIBILITIES

Our appliances are manufactured in compliance with the requirements of the applicable directives and supplied with CE marking and any necessary documents.

This manual contains information that complies with the legislation and standards in force at the time of issue.

As the manufacturer, we accept no liability for personal injury or damage to property resulting from:

- ▶ Failure to comply with the instructions and safety requirements contained in the manual;
- ▶ Failure to comply with the safety legislation in force at the place of installation;
- ▶ Use of the appliance for a purpose other than its intended use; Incorrect use (misuse);
- ▶ Use by unauthorized or untrained personnel;
- ▶ Technical changes not authorized by the manufacturer;
- ▶ Changes to factory settings not authorized by the manufacturer;
- ▶ Use of spare parts or accessories not permitted by the manufacturer;
- ▶ Failure of the customer's electrical installation.

We continually strive to improve the quality of our appliances and therefore reserve the right to change the specifications contained in this document.

2.4 INSTALLER RESPONSIBILITIES

The installer is responsible for the installation and commissioning of the appliance. The installer must comply with the following instructions:

- ▶ Read and comply with the instructions in the manuals supplied with the appliance;
- ▶ Install the appliance in accordance with the legislation and standards in force;
- ▶ Carry out the initial start-up and any necessary checks;
- ▶ Provide the user with explanations on how to use the appliance;
- ▶ Warn the user of the obligation to check the appliance to keep it in working order in the event of maintenance;
- ▶ Provide the user with all instruction manuals.

2.5 USER RESPONSIBILITIES

To ensure that the appliance works properly, you must follow these instructions:

- ▶ Read and follow the instructions in the manuals supplied with the appliance;
- ▶ Hire a qualified company/technician to carry out the installation and initial start-up;
- ▶ Ask the installer to explain how to use the appliance safely;
- ▶ Keep the instruction manuals in good condition and in a place close to the appliance.

3. APPLIANCE DESCRIPTION

3.1 MODEL NOMENCLATURE

NAME	XXX	-	YYY	VV	K	Z	R
------	-----	---	-----	----	---	---	---

NAME - Appliance Family Name
XXX - Height
YYY - Length
VV - Version (OP - Open; DX - Doors)
K - Cooling Type (R - Remote; P2 - Plug-In R290)
Z - Additional characterization, if required (+I - Stainless Steel, +EX - Customer Specification)
R - Appliance Revision Status (0, 1, 2...)

3.2 DEVELOPMENT AND STANDARDIZATION

NOTE!

This appliance is intended exclusively for displaying food and refrigerated products for use in commercial or similar spaces.

This appliance has been developed and manufactured to meet the essential requirements of the applicable European Directives, satisfying the requirements of standard EN 60335-2-89 - Safety of commercial refrigeration appliances.

NOTE!

This appliance is intended to work only in controlled indoor environments, in draft-free areas and in the environmental conditions of **climate class 3**, which is defined by:

Climatic Class according ISO 23953-2	Ambient Temperature [°C]	Air Humidity [%]
3	25	60

For store environments with values other than those mentioned above, the appliance's performance may fall short of what is expected (not reaching the desired temperature, creating frequent and prolonged condensation on glass or metal surfaces, increasing energy consumption,...) These consequences are no reason to call for technical assistance.

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The **temperature class** defines the temperature characteristics of the product at which it is cooled inside the appliance:

Class temperature	M1	M2	H1	L1
Product Temperature	-1°C...+5°C	-1°C...+7°C	+1°C...+10°C	-18°C...-15°C
Application in (examples)	Meat, Poultry, Dairy Products	Meat, Charcuterie, Dairy Products, Beverages	Convenience, Dairy Products, Beverages	Deep-frozen foods, Ice Cream

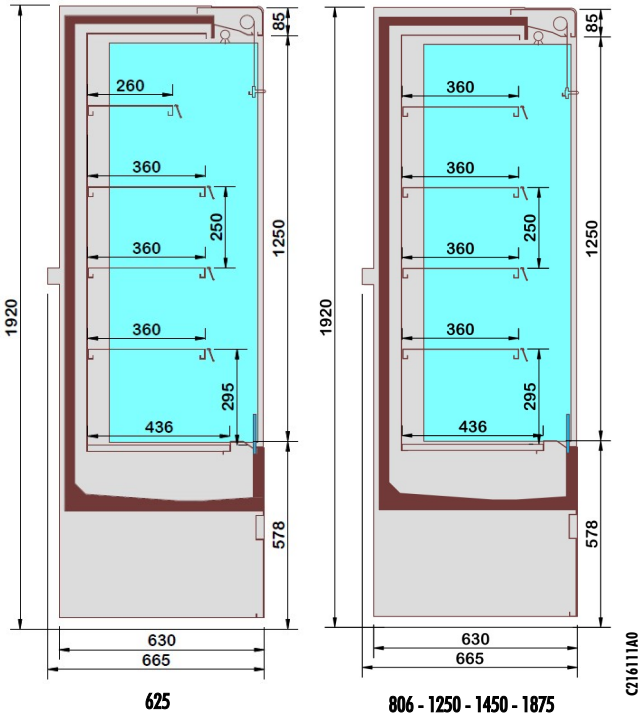
3.3 GENERAL CHARACTERISTICS OF THE APPLIANCE

The main information can be found on the characteristics label affixed directly to the device.

		CRONUS 1920-YYY OP P2 0 / +I0					
Technical Data		625	806	1250	1450	1875	
Climate Class		3 (25°C/60%HR)					
Temperature Class		M1					
Operating temperature	°C	2 / +4°					
Total display area (TDA)	m²	0,79	1,02	1,58	1,84	2,37	
Refrigerated shelf area	m²	0,88	1,22	1,89	2,19	2,83	
Refrigeration Data							
Refrigerant	Type	R290					
Defrosting	Type	Automatic					
Noise							
Airborne noise emission	dB	< 70					
Dimensions							
Lenght	(including sides)	mm	690	870	1315	1515	1940
Weight	Net	kg	135	140	200	225	270
	Gross		165	175	240	270	320
Wood Packing.....	C L A	mm	800	990	1410 730 2180	1610	2050
Maximum Allowable Load							
Shelf/Glass Plate		kg/m²	100				
Deck Pan		kg/m²	150				

NOTE!

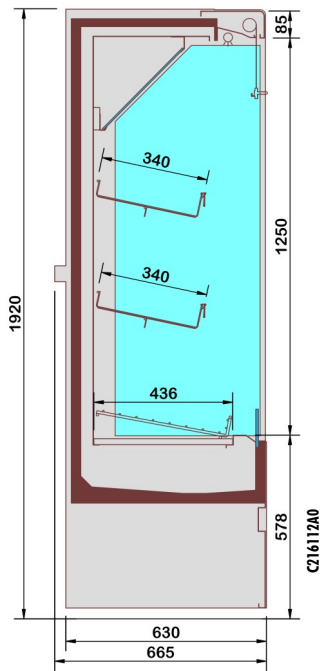
Glass shelves are not intended for displaying or storing drinks.



		CRONUS 1920-YYY OP P2 +F 0					
Technical Data		806		1250		1450	
Climate Class			3 (25°C/60%HR)				
Temperature Class			S*				
Operating temperature		°C	+ 5 / +12°				
Total display area (TDA)		m²	1,07	1,66	1,92		
Refrigerated shelf area		m²	0,90	1,40	1,62		
Refrigeration Data							
Refrigerant		Type	R290				
Defrosting		Type	Automatic				
Noise							
Airborne noise emission		dB	< 70				
Dimensions							
Lenght (including sides)		mm	870	1315	1515		
Weight		Net	kg	140	200	225	
		Gross		175	240	270	
Wood Packing		C	mm	990	1410	1610	
		L			730		
		A			2180		

S* - Classificação especial

Maximum Allowable Load		
Shelf/Glass Plate	kg/m²	100
Deck Pan	kg/m²	150



Height with wheels: 1958mm

4. INSTALLATION AND PRECONDITIONS

4.1 CHECK THE PACKAGE

Carefully check the general aspect of the crate or package. In case of evidences of bad handling during transport, report them on the transport documentation and inform your supplier.

If the crating or packaging looks to be in good conditions carry on with the appliance installation.

4.2 ESTABLISHMENT PRECONDITIONS

The location where the appliance is installed is very important for proper operation and consequent energy savings:

- ▶ Avoid close proximity to heat sources (heaters, stoves, condensers of other appliances, etc.), draughts (windows, doors, ventilation grilles, air conditioning, etc.) and places with strong exposure to the sun.
- ▶ Carefully remove the plastic film protecting some of the components.

NOTE!

This appliance is not designed for outdoor use.

4.3. HANDLING AND UNPACKING

The unit is supplied with a wooden platform so that it can be moved with a forklift or hand pallet truck. Use a device suitable for the weight of the unit.



All packing materials are recyclable and should be eliminated according to local regulations.

WARNING

Personnel handling and installing the appliance must be equipped with flexible, non-slip work gloves, safety goggles and safety shoes, which they must wear whenever necessary.

NOTE!

The appliance may only be placed and moved in the position in

WARNING

Plastics, in particular, should be kept out of the reach of children as they are potential sources of danger.

CAUTION

Do not lean on the glass sides to move the product. They could break and have serious consequences.

4.4 ELECTRICAL CONNECTIONS

WARNING

Check that the voltage and frequency of the mains supply where the appliance is to be installed are appropriate to those indicated on the characteristics label.

The Plug-In version is supplied with a standard power cable and a 2P+T - 16 A - Schuko plug.

WARNING

The appliance is not supplied with electrical overcurrent protection devices, so check the electrical safety level of the network where it is to be installed.

WARNING

Connections with plug extensions or plug adapters are not recommended.

The appliance has a terminal for connecting the equipotential bonding conductor whenever there is a need to adequately prevent contact voltages between appliance masses and metal parts of non-electrical appliances that could accidentally come into contact with live electrical conductors. This terminal is located in the chassis area, allowing connection to conductors of 2.5 to 6mm² in cross-section, and is identified by the symbol 

4.5 ASSEMBLING THE UNIT

Do not walk on or place loads on the device.

Carefully remove the plastic film protecting some components.

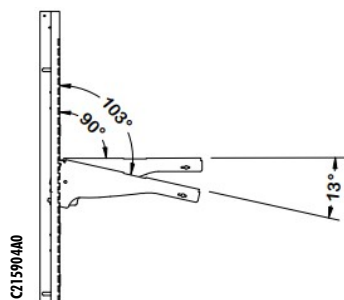
If this manual is accompanied by additional "Assembly Instructions", follow the order indicated for correct installation.

Level the appliance horizontally by adjusting the leveling feet to allow:

- ▶ Proper operation;
- ▶ Perfect drainage of waste water from defrosting the evaporator;
- ▶ Noise reduction.

If the appliance is supplied with wheels, the floor on which it is placed should be as flat as possible.

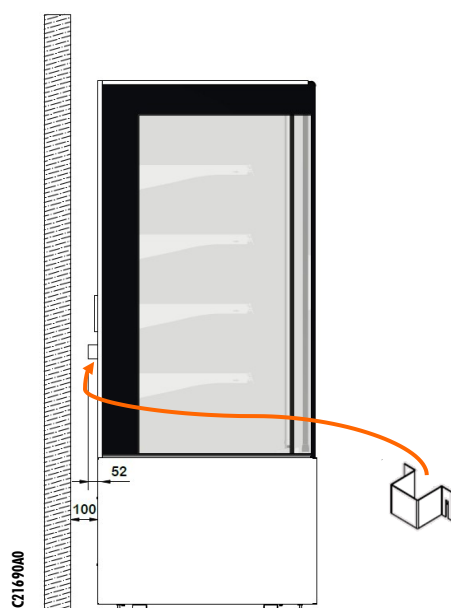
If the consoles are multi-tilting, they can assume two positions:



The shelves should be spaced as shown in fig. 3.3.

NOTE!

Apply the spacer marked on the back of the equipment to ensure a minimum distance from the wall of 50 to 100mm to facilitate the flow of hot air from the compressor unit:



WARNING

Only use hand tools when fixing screws to glass or acrylic components.

i

We recommend that, where necessary, suitable mechanical protection is fitted to the appliance to prevent possible damage caused by the impact of shopping trolleys, cleaning machines, forklift trucks or other appliances.

i

At the end of the day, before putting the appliance into operation, clean the interior and exterior with a soft cloth and warm water with neutral detergent (5% of the volume of water) without chlorine.

4.6 ALINING, LEVELING AND JOINING CASES

In the particular case of mounting multiplex devices, follow these instructions:

▶ Check the layout/assembly drawings. If pre-assembled modules are supplied, study the "Module Assembly" drawing to arrange the devices according to the serial numbers indicated;

▶ Check that the sponge sealing tape (factory-set) is in place and not damaged in the connection areas of each appliance module;

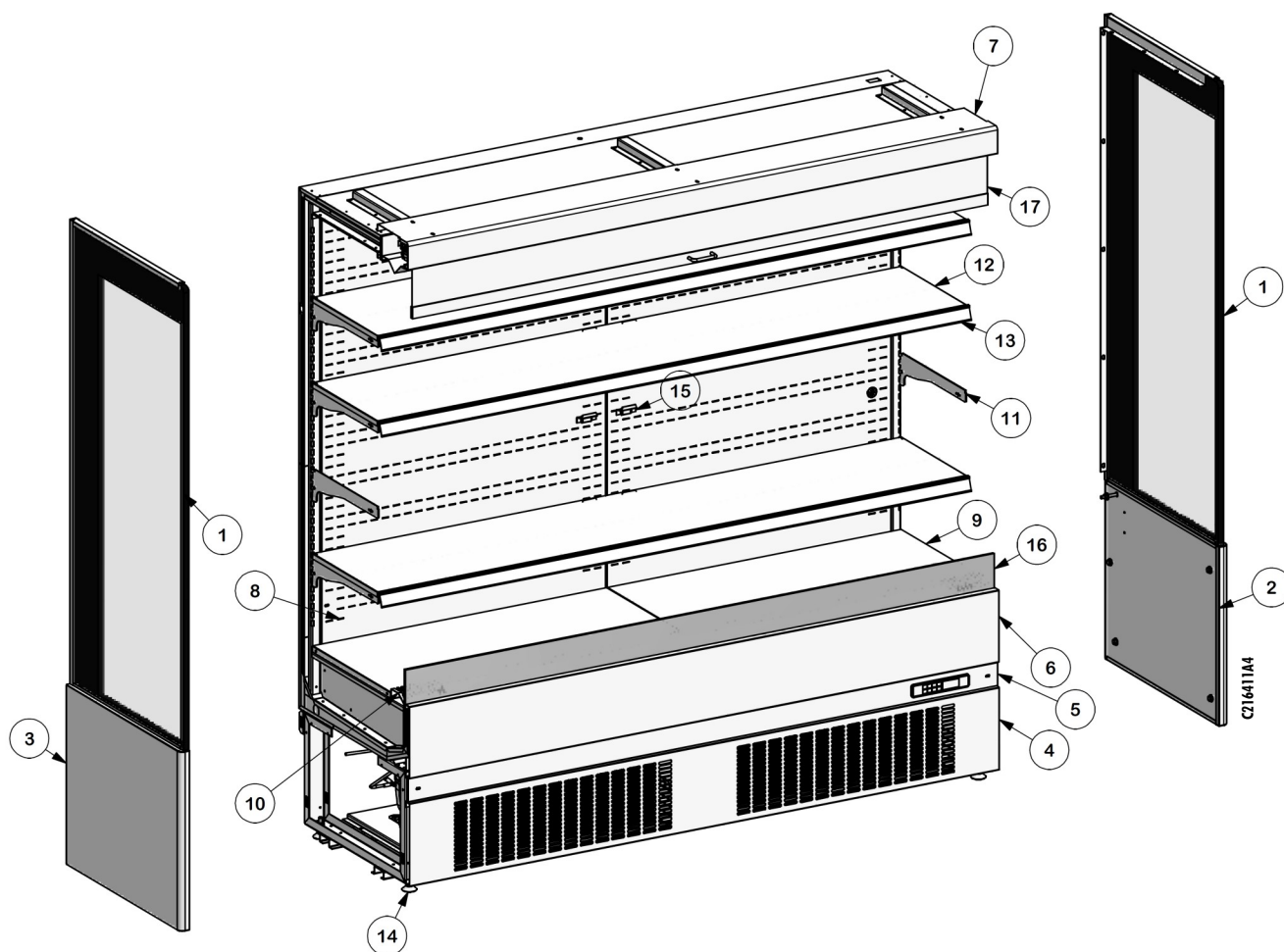
▶ Level the appliance horizontally using the adjustable feet to ensure proper operation and performance, and to reduce noise caused by vibration of moving parts;

NOTE!

Apply sealant to the joining areas of the units before the modules are finally joined. After joining and final tightening of the joining screws, apply sealant to the joints.

Insufficient insulation in the junction areas can cause the appliance to malfunction and/or generate condensation in these areas.

4.7 OVERVIEW - STAINLESS STEEL



Nr	DESIGNATION
1	SIDE GLASS
2	RIGHT SIDE PANEL
3	LEFT SIDE PANEL
4	FRONT KICKPLATE
5	ELECTRONIC CONTROL BOX
6	DECORATIVE LOWER PANEL
7	FRONT PANEL
8	REAR BAFFLE
9	DECK PAN
10	AIR RETURN GRID
11	SHELF BRACKET 3E
12	SHELF
13	PRICE MARKING RAIL
14	ADJUSTABLE FOOT M10X59
15*	DECK FIXER ACESSORY
16	ACRYLIC ANTIMIST
17	NIGHT BLIND KIT

*Na medida 1875

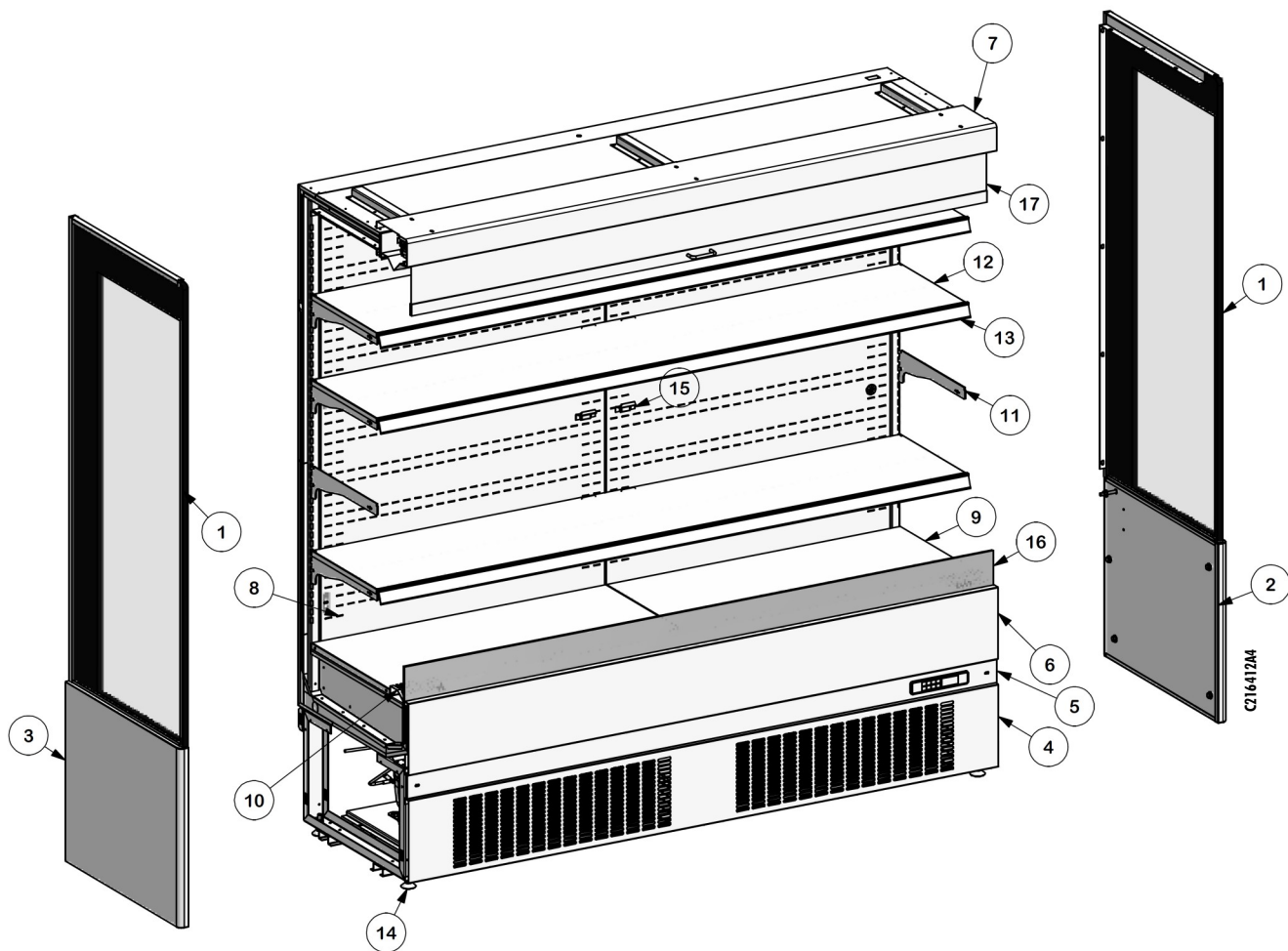
i

To prevent possible damage we recommend that, suitable mechanical protection is fitted to the equipment, where necessary, appliance to prevent possible damage caused by the impact of shopping trolleys, cleaning machines, forklift trucks or other appliances.

i

At the end of the day, before putting the appliance into operation, clean the interior and exterior with a soft cloth and warm water with neutral detergent (5% of the volume of water) without chlorine.

4.8 OVERVIEW - PAINTED



Nr	DESIGNATION
1	SIDE GLASS
2	RIGHT SIDE PANEL
3	LEFT SIDE PANEL
4	FRONT KICKPLATE
5	ELECTRONIC CONTROL BOX
6	DECORATIVE LOWER PANEL
7	FRONT PANEL
8	REAR BAFFLE
9	DECK PAN
10	AIR RETURN GRID
11	SHELF BRACKET 3E
12	SHELF
13	PRICE MARKING RAIL
14	ADJUSTABLE FOOT M10X59
15*	DECK FIXER ACESSORY
16	ACRYLIC ANTIMIST
17	NIGHT BLIND KIT

*Na medida 1875

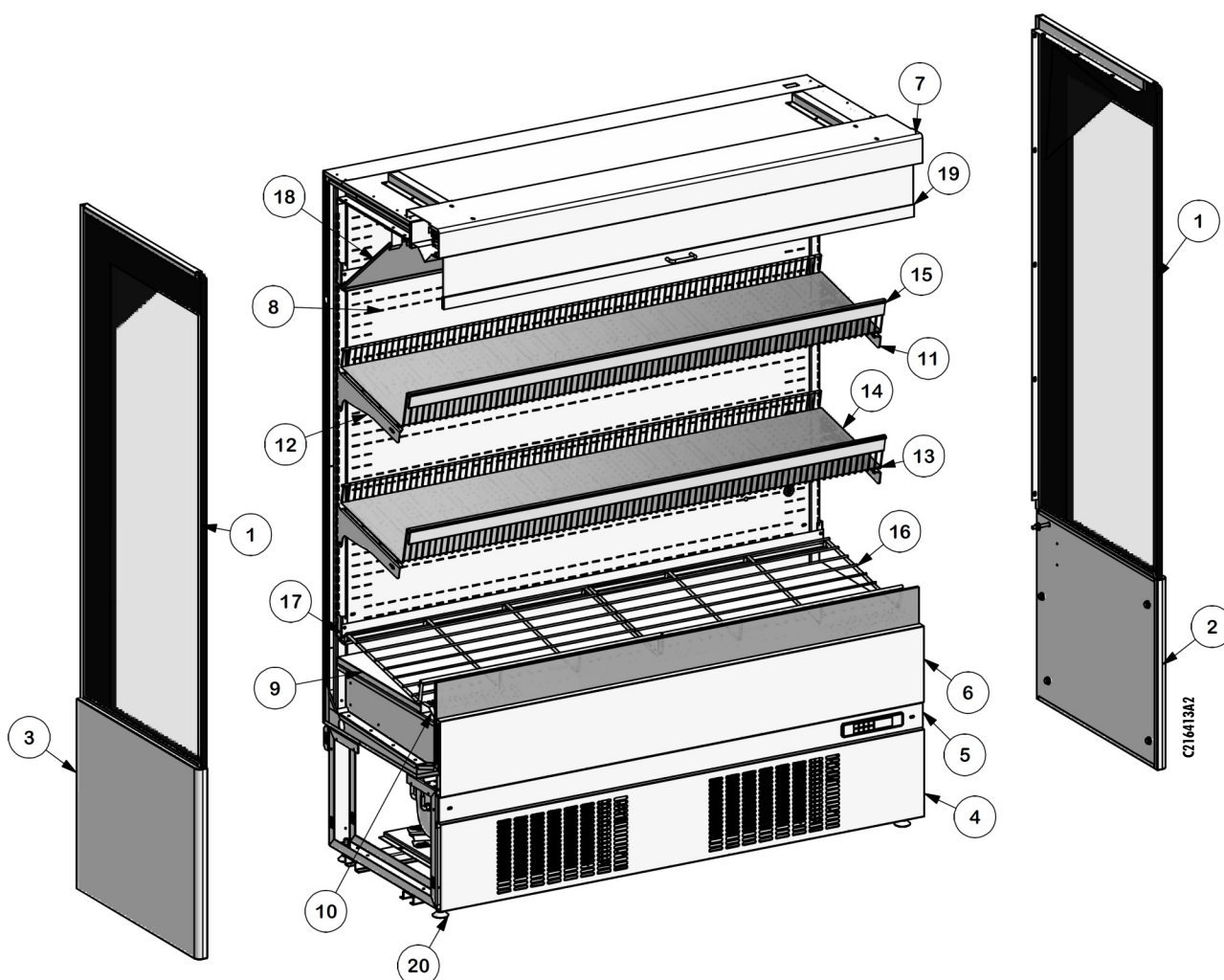
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To prevent possible damage we recommend that, suitable mechanical protection is fitted to the equipment, where necessary, appliance to prevent possible damage caused by the impact of shopping trolleys, cleaning machines, forklift trucks or other appliances.

i

At the end of the day, before putting the appliance into operation, clean the interior and exterior with a soft cloth and warm water with neutral detergent (5% of the volume of water) without chlorine.

4.9 OVERVIEW- FRUITS/VEGETABLES



Nr	DESIGNATION
1	SIDE GLASS
2	SIDE WALL - RIGHT
3	SIDE WALL - LEFT
4	FRONT KICKPLATE
5	ELECTRONIC CONTROL BOX
6	DECORATIVE LOWER PANEL
7	TOP DECORATIVE PANEL
8	REAR BAFFLE
9	DECK PAN
10	AIR RETURN GRID
11	RIGHT SHELF BRACKET
12	LEFT SHELF BRACKET
13	FRUIT BASKET
14	CLEAR POLYCARBONATE SHEET
15	PRICE MARKING RAIL
16	WIRE NET
17	TOP MIRROR RAIL
18	MIRROR SET
19	NIGHT BLIND KIT
20	ADJUSTABLE FOOT M10X59

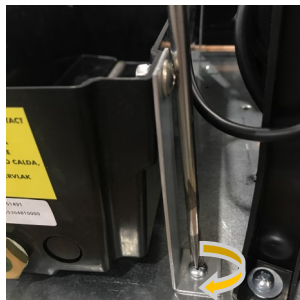
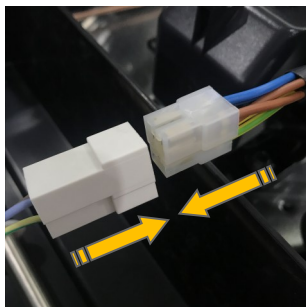
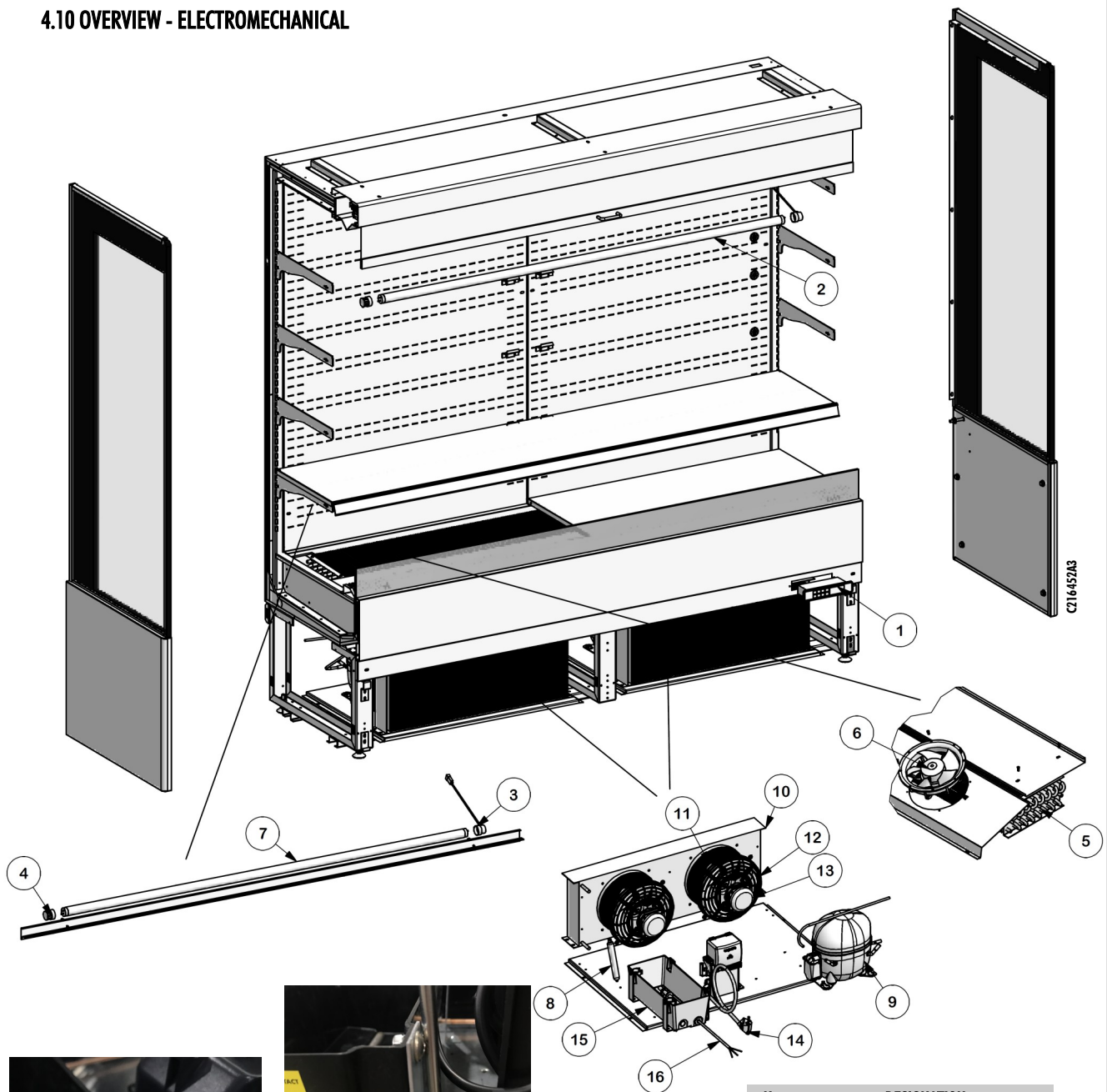
i

To prevent possible damage we recommend that, suitable mechanical protection is fitted to the equipment, where necessary, appliance to prevent possible damage caused by the impact of shopping trolleys, cleaning machines, forklift trucks or other appliances.

i

At the end of the day, before putting the appliance into operation, clean the interior and exterior with a soft cloth and warm water with neutral detergent (5% of the volume of water) without chlorine.

4.10 OVERVIEW - ELECTROMECHANICAL



The condensate evaporation trimmer (no.15) is an accessory and not part of the standard model.

When requested by the customer, it must be applied as follows:

- ▶ Disconnect the appliance from the mains;
- ▶ Attach the trimmer by screwing it into the compressor unit's sheet metal base;
- ▶ Plug the heating element plug of the trimmer into the corresponding male plug;



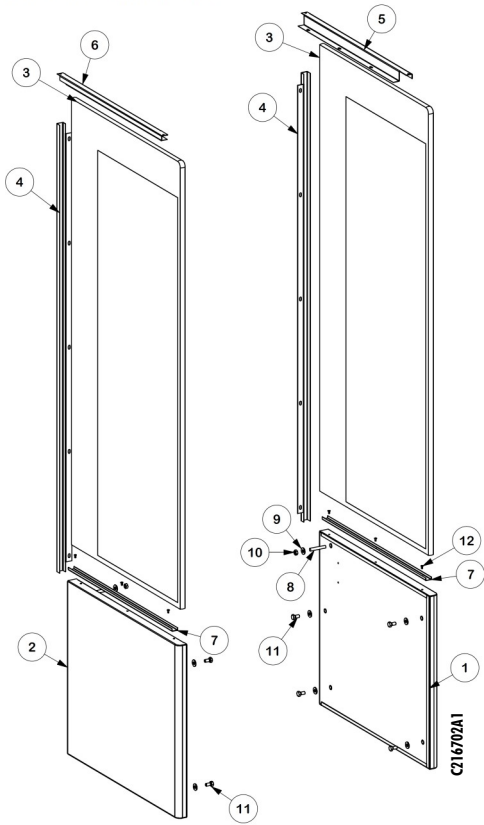
- ▶ Position the condensate discharge tube inside the water tray and secure it with a plastic clamp, taking care that the tube does not touch the heating element.
- ▶ Apply the metal grating, if available.

Nr	DESIGNATION
1	CONTROLLER
2	T8 LED
3	SUPPLY CORD
4	END CAP
5	EVAPORATOR
6	FAN
7	T8 LED
8	FILTER DRYER
9	COMPRESSOR
10	CONDENSER
11	FAN BLADE
12	FAN SHELTER
13	MOTOR
14	POWER CORD PLUG
15*	WATER TRAY
16**	HEATER

* - Optional: not part of the standard equipment
** - Included in 15

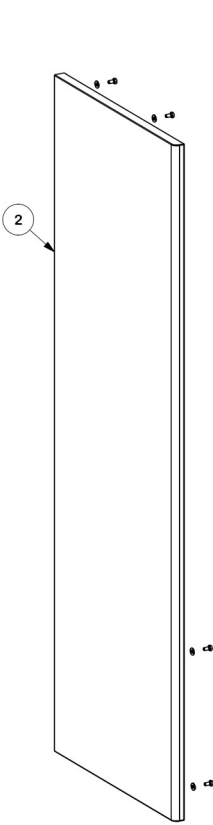
4.11 SIDE WALL / OPAQUE

SIDE WALL - LEFT

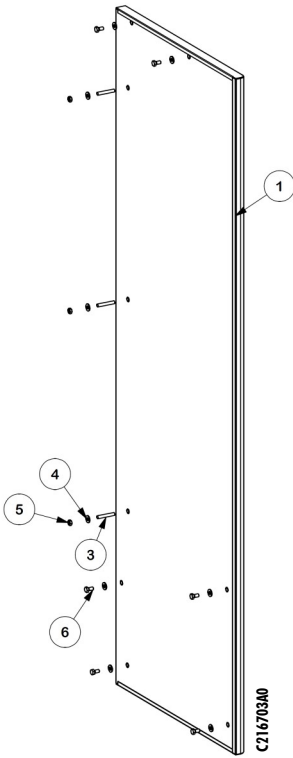


SIDE WALL - RIGHT

SIDE WALL - LEFT OPAQUE



SIDE WALL - RIGHT OPAQUE



Nr	DESIGNATION
1	SIDE WALL - RIGHT
2	SIDE WALL- LEFT
3	SIDE GLASS
4	ACCESSORY SIDE FIXING
5	RIGHT SIDE TOP FIXATION ACCESSORY
6	LEFT SIDE TOP FIXATION ACCESSORY
7	LOWER SIDE ACCESSORY
8	STAINLESS STEEL ROD M8X50
9	METAL WASHER 19X8,4X2
10	NUT M8
11	SCREW M8X16
12	HUCK-CLINCH 3,2X6,1

Nr	DESIGNATION
1	SIDE WALL - RIGHT
2	SIDE WALL - LEFT
3	STAINLESS STEEL ROD M8X50
4	METAL WASHER 19X8,4X2
5	NUT M8
6	SCREW M8X16

⚠ WARNING

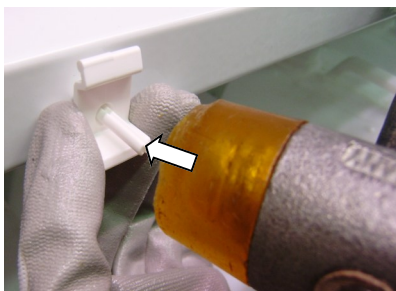
Only use hand tools when fixing screws to glass or acrylic components.

4.12 ASSEMBLING DOOR PROFILES PRICES

Follow the sequence below:



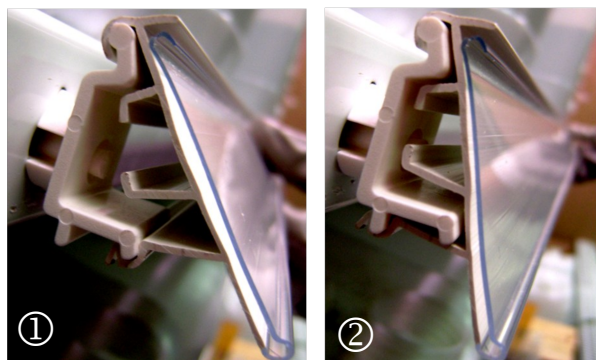
Position the price profile holder in the shelf opening.



To attach the bracket, press the plastic tab inwards with a mallet.



Fit the profile into the previously applied brackets.



Position the profile with the desired inclination:

- ① Less inclination;
- ② Greater inclination.

4.13 REASONABLY FORESEEN INCORRECT OPERATION

Incorrect use or operation can lead to potential unwanted effects.

CAUTION

- ▶ Do not put the appliance into operation if after installation and assembly it shows obvious defects;
- ▶ Do not make any technical changes to the appliance;
- ▶ Do not obstruct the (internal) refrigerated air circulation grilles or the (external) cooling ventilation slots of the compressor unit;
- ▶ Do not store explosive substances inside the appliance;
- ▶ Do not operate the appliance above the climate class indicated on the characteristics label;
- ▶ Do not use the appliance to cool food. Food must be placed inside the appliance at a temperature lower than the maximum temperature of the appliance's temperature class;
- ▶ Do not operate an appliance with a damaged glass component;
- ▶ Do not use a high-pressure machine or steam cleaner for cleaning;
- ▶ Only qualified technicians may inspect the refrigeration circuit for refrigerant leaks. All instructions for using propane (R290) must be followed.

5. OPERATION

Put the appliance into operation after the installer has explained how to use it safely.

The temperature is set by the electronic controller in accordance with the specific instructions that come with it. It is already programmed at the factory. The controller is checked in accordance with 5.2.

The indicator lamps, if present, indicate the appliance's operating status:

- ▶ Green Switch (0 / I) on: under voltage
- ▶ Orange Switch  on: lighting switched on

5.1 GENERAL OPERATING INSTRUCTIONS

After switching on, wait for the set temperature to be reached before starting to load the food products. Make sure that when you load the appliance with products, you are not obstructing the internal airflow circuits (e.g. the air intake and exhaust grilles).

NOTE!

Respect the load limit indicated by  the label applied directly to the appliance or on the sticker on the characteristics label.

Never exceed it, as this could cause disturbances in the distribution of refrigerated air, resulting in malfunctions and spoilage of the food on display.



The shelves placed above the loading level are exclusively for displaying food products that do not require refrigeration.

NOTE!

The glass shelf is not intended for displaying or storing drinks.

WARNING

Never exceed the maximum permissible load in chapter 3 or on the information label stuck to the device.

Exceeding this limit may cause damage to the unit and potentially create dangerous conditions for users and customers.

NOTE!

A distance of around 10mm should be left between the food products and the sides.

NOTE!

Food products should be placed in such a way that there are no empty spaces, to ensure uniform distribution of the refrigerated air.



Remember that this appliance is not designed to lower the temperature of food products, but to maintain the temperature at which they are placed.



Food products with a temperature higher than the appliance's operating temperature must not be placed inside the appliance.

NOTE!

Do not leave refrigerated food products in boxes or on pallets for longer than it takes to restock the appliance.

In appliances with doors, open the doors in turn during the restocking period to avoid unnecessary loss of refrigerated air and waste of energy.

Do not use the top outside of the appliance to store packaging, parts or other materials.



When the appliance is supplied with manual night curtains (usually optional), these should be opened and closed carefully to prevent them from losing their alignment and starting to deteriorate. They should be used whenever possible to reduce energy consumption. However, don't forget to turn off the lighting beforehand.

5.2 APPLIANCE CONTROLLER

The following table describes the assignment of the appliance's controller buttons and their functions.

The controller's digital display shows the average temperature and/or warning or alarm messages.

5.2.1 FRONT PANEL CONTROLS

XW60L



SET To view the setpoint (in programming mode, select a parameter or confirm an operation)



(DEF) To start manual defrosting



(UP): Display the maximum temperature recorded



(DOWN) Display the recorded minimum temperature

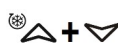


Turning the device on/off



Turning the device on/off

KEY COMBINATIONS:



To lock and unlock the keyboard



To enter in programming mode



To return to the room temperature display

5.2.2 LED INFORMATION ON THE CONTROLLER DISPLAY

Each LED function is described in the following table:

LED	MODE	FUNCTION
	ON	Compressor enabled
	Flashing	Anti-short cycle delay enabled
	ON	Defrost enabled
	Flashing	Drip time in progress
	ON	Fans enabled
	Flashing	Fans delay after defrost in progress
	ON	An alarm is occurring
	ON	Continuous cycle is running
	ON	Continuous cycle enabled
	ON	Energy saving activated
AUX	ON	Auxiliary relay on
°C/°F	ON	Measurement unit
°C/°F	Flashing	Programming phase

5.2.3 MAIN FUNCTIONS FOR THE USER.

HOW TO SEE THE SET POINT



1. Push and immediately release the **SET** Key: the display will show the Set Point value;
2. Push and immediately release the **SET** Key or wait 5 seconds to display the probe value again.

HOW TO CHANGE THE SET POINT

- ▶ Push the **SET** Key for more than 2 seconds to change the Set Point value.
- ▶ The value of the set point will be displayed and the "C" or "F" LED starts blinking;
- ▶ To change the Set value push the or arrows within 10 s.
- ▶ To memorise the new set point value push the SET key again or wait 10s .



HOW TO START A MANUAL DEFOST

Push the DEF key for more than 2 seconds and a manual defrost will start.

5.2.4 ALARM SIGNALS ON THE DISPLAY

MESSAGE	CAUSE
" P1"	Room probe failure
" P2"	Evaporator probe failure
" HA"	Maximum temperature alarm
" LA"	Minimum temperature alarm

NOTE!

Programming changes should only be made by qualified technicians.



If the appliance is not connected to a monitoring center with an alarm system, you should check the temperature indicated on the display several times a day, or at another frequency in accordance with local legislation.

6. CLEANING AND MAINTENANCE

6.1. IMPORTANCE OF PROPER CLEANING AND MAINTENANCE

A correct cleaning and maintenance ensures:

- ▶ Spreading a positive image of the establishment;
- ▶ Ensure the necessary hygiene for the operation;
- ▶ Consume as little energy as possible;
- ▶ Extend the service life of the appliance;
- ▶ Avoid costly repairs.

A poor maintenance can cause deficient functioning of the equipment (ex.: blockage of the return air grid) and in consequence refrigeration system failures.

The cleaning schedule and the kind of tasks to perform will depend on each shop / business in agreement with legislation on force, the kind of equipment within the food safety and management model applied. We suggest anyway the minimum cleaning schedule as per the chart below.

	Refrigerated Prepacked (self-service)
Electric condensate chopper	Monthly
Glazing and contact surfaces	Everyday
Exhibition areas	Everyday
Air passage Grids	Monthly
Air Ducts	Monthly
Well	Monthly
Waste Water Inlet	Monthly
Condenser	Monthly

It should be noted that we have only mentioned the most sensitive parts that interfere with the operation of the appliance, while the rest should be cleaned according to the needs of good presentation and hygiene.

6.2. SPECIFIC PRECAUTIONS.

DANGER

Before any maintenance or cleaning operation the appliance must be turn off to guarantee no electric power of any type is applied to it. In some installations, more than one switch may have to be turned off.

The plug must be removed in such a way that the operator can check that it remains removed from any of the points to which he has access.

If this is not possible, a disconnection must be provided with a locking system in its disconnected position.

CAUTION

This unit uses an R290 refrigeration system.

Flames, cigarettes or other possible sources of ignition must not be used in or near the appliance.

For general cleaning, remove all food products from inside the appliance to a cold room with a suitable temperature. Although the appliance is equipped with an automatic defrost programmer, it should be switched off and cleaned at least once a month.

WARNING

Wait a few minutes before accessing the areas near the evaporator of the cabinet due to the considerable temperature differential in the area caused by the "evaporation" of the refrigerant gas or the associated defrost circuit.

WARNING

Ice build-up on the evaporator reduces performance and increases energy costs. Never remove ice with spatulas, knives or other metal objects. The ideal procedure is to turn off the appliance and allow the evaporator to defrost naturally.

NOTE!

The water from daily defrosting is collected in a plastic container which must be emptied whenever necessary. In some models this procedure is not necessary as the water is re-evaporated in an electric trimmer. Please take special attention immediately after defrosting, after an excessive build-up of ice on the evaporator, as the condensate collection container may not have enough capacity and may overflow.

WARNING

During operation or after the appliance has stopped, do not touch the compressor, condenser or the condensate re-evaporation tray, as they may be very hot.

CAUTION

Whenever it is necessary to remove any protection or shielding, it must be ensured that the appliance is not started into operation without first returning all the elements back in their original position.

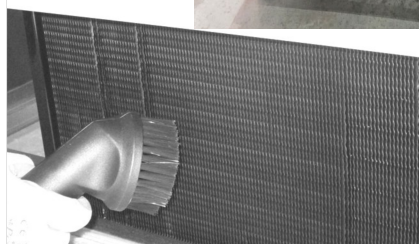
6.3. GENERAL CLEANING.

NOTE!

- ▶ Do not spray water on electrical components;
- ▶ Do not use water jets or any kind of metal objects to remove impurities or dirt;
- ▶ Do not use abrasive materials or substances or solvents, nor muriatic (hydrochloric) acid, chlorine-based detergents or pure

NOTE!

The condenser should be cleaned periodically, or whenever it shows impurities or dirt that hinder or prevent the free circulation of air. These should be removed using a soft hair brush (never metal hair) or a vacuum cleaner.



▶ Internal and external cleaning should be carried out periodically with a soft cloth and warm water with neutral detergent (5% of the volume of water) without chlorine. It is very important that the condensate drain hole is completely clear.

▶ At the end, carefully dry off any residual traces of water using a sponge or absorbent cloths. Use suitable products for glass parts.

NOTE!

Whenever there is a spillage or contamination from the breakage of any packaging inside the appliance, it must be cleaned immediately and the defrost water condensate evaporation tray emptied. Check that the drainage pipe is not blocked.

NOTE!

Acrylic components should be cleaned with a damp microfiber or suede cloth without residue. Do not use alcohol or products with alcoholic solutions. Do not use glass cleaner. Do not use rough sponges or sharp tools.

These materials scratch the acrylic.

NOTE!

Make sure that the appliances are not affected by cleaning products from the store. The substances used to clean the floor can chemically attack some of the appliance's components.

NOTE!

After cleaning, food products should only be put back into the appliance once it has reached the set temperature. After cleaning, food products should only be put back into the

6.4. CLEANING THE ELECTRIC CONDENSATE DRAIN (if available)

The drip tray function is to collect the condensation water produced inside the appliance and then evaporate it using an electric heating element. It is located next to the compressor unit. It must be cleaned regularly to avoid bad odors and/or overflow onto the floor.

⚠ CAUTION

Before starting to clean the drip tray, unplug it from the mains and wait a few minutes.

NOTE!

Wait a few minutes. Carefully remove the drip tray as it may be full of water and spill over.

Wash it with a solution of water and white vinegar using a brush. Then wash with clean water, leave to dry and replace, repeating the reverse procedure, ensuring that the white washer used to position the heating element remains in its original position.

6.5. ANNUAL MAINTENANCE

NOTE!

To prevent and ensure that the appliance is kept clean and sanitized both on the visible parts and on the inside (after removing the grilles and trays), and to extend its useful life without costly interventions, we recommend that you have it serviced annually by qualified personnel.

6.6. LIGHTING REPLACING LAMPS

6.6.1 LED T8 L-N, 230V

Switch off the power supply to the unit.

Turn the lamp approximately 90° and remove it.

The lamps must be replaced with others of the same or equivalent reference.

To install a new lamp, repeat the same operations, but in reverse.

With regard to the recycling of used light bulbs, comply with local legislation and regulations.

WARNING

Please note: T8 LED tube lights used have only have a power supply on one side marked "L-N":



Please follow these instructions:

Do not reverse the position of the lamp. Risk of short circuit.

The installation is not suitable for use with other types of LED or fluorescent lamps.

If in doubt, consult the appliance supplier.

Circuit modifications should only be carried out by a qualified technician.

6.6.2 LED-24V

When the device has 24V LED boards these can work for several years without special maintenance.

When the LED board doesn't work, it might be necessary the LED driver and eventually replace it. Switch off mains on the main connection before any maintenance operation.

7. ENVIRONMENTAL PROTECTION

7.1 ENERGY SAVING

Some actions can be taken on the appliance to reduce energy consumption:

- ▶ Connect the condensate water directly to the sewage system, eliminating the need to use the trimmer with the condensate evaporation resistor (if fitted), which can amount to almost 50% of the appliance's consumption. In this case, make sure that there is a siphon between the appliance's pipe outlet and the floor connection and that the discharge area is well sealed to prevent the loss of cooled air and bad smells. We recommend that this work is carried out by a qualified person;

- ▶ Adjust the controller's Set-Point to a temperature value that is sufficient for the type of food products on display;

- ▶ Ensure that there is no packaging, labels, advertising or products obstructing the air passage grilles (internal and external);

- ▶ Avoid any air flow over the appliance or the presence of other heat-producing appliances nearby;

- ▶ Reduce as much as possible the time the doors are open when refilling the appliance;

- ▶ Clean the condenser monthly: a dirty condenser negatively affects the appliance's performance, drastically increasing energy consumption;

- ▶ Respect the indicated load limit;

- ▶ In the case of appliances equipped with a night curtain, close it when the store is not in operation;

- ▶ Carry out a manual defrost whenever you notice that the evaporator is accumulating ice;

- ▶ Respect the ambient temperature and humidity indicated in the climate class (3.3)

7.2 UNPACKING/DISPOSAL/RECYCLING

In accordance with European Directive 2002/96/EC, at the end of its useful life, the appliance must not be disposed of with municipal waste. It should be disposed of at specialized separate collection centers or at installers who provide this service.

By disposing of an electrical appliance separately, you can avoid possible negative consequences for the environment and public health, as well as recovering the constituent materials to achieve significant energy and resource savings.

CAUTION

Do not damage the appliance. Do not alter it or puncture the cooling system, which may contain flammable gas under pressure.

8. SERVICE AND REPAIR

CAUTION

Ensure that only qualified personnel service or repair this appliance.

CAUTION

Always switch off the power supply at the main disconnect when servicing or replacing any electrical component.

8.1 SPARE PARTS

- ▶ The components are designed for safe operation with refrigerant (R290). They should only be replaced with identical ones.
- ▶ Check that all replacement parts are identical to those being replaced. Only use original parts specified by the manufacturer.
- ▶ The recycling of electrical components must comply with current legislation and regulations.

9. ADDITIONAL INSTRUCTIONS

9.1 IN THE EVENT OF AN R290 REFRIGERANT LEAK

- ▶ Inform people of the danger immediately;
- ▶ Switch off the power supply (at the store's electrical panel)
- ▶ Forbid any kind of flame;
- ▶ Ventilate the area (open windows or doors);
- ▶ Call a qualified technical service.

9.2 IN CASE OF FIRE

In the event of a fire in the appliance, turn it off and use chemical powder or CO2 extinguishers. Do not use water.

10. ECOLOGICAL INFORMATION REG. (EU) 2019/2024

10.1 INFORMATION ON TEMPERATURE REGULATION IN FOOD PRESERVATION

- ▶ To ensure the correct preservation of food, maintain the original factory settings to ensure the specified refrigeration temperature.
- ▶ The storage instructions on the food packaging must be followed.
- ▶ Alterations to the programming of the appliance's controller by unskilled personnel could cause the food to spoil prematurely.

10.2 CONDENSER CLEANING

In appliances with a built-in compressor unit, if the condenser fins are not cleaned in accordance with the instructions in point 6.3, the efficiency of the appliance will drop significantly.

10.3 PROFESSIONAL REPAIR SERVICES SPARE PARTS

For professional repair services or additional information on spare parts, contact the company that installed the appliance, or use the following contact details:

Telephone	(+ 31) 030 285 0090
E-mail	service@combisteel.com
Website	www.combisteel.com

Spare parts will be available for at least 2 years after the last unit of the model is placed on the market.

10.4 WARRANTY

The appliance is guaranteed under the terms of the law in force for professional use, for a minimum period of 12 months, unless otherwise agreed in writing between the parties.

10.5 ENERGY EFFICIENCY INFORMATION

Where applicable, the information required by Regulation (EU) 2019/2018 regarding energy labeling is available from the QR code on the energy label that comes with the appliance or on the website:

<https://eprel.ec.europa.eu>

11. TECHNICAL PROBLEMS AND SOLUTIONS

1 - THE APPLIANCE DOES NOT WORK

- ▶ Check that there is electrical voltage available;
- ▶ Check that the plug is correctly connected;
- ▶ Check that automatic defrosting is in progress;
- ▶ Check that the main switch, if there is one, is in the "I" position;
- ▶ Check that the SETPOINT values are low. Adjust according to the controller manual.

2 - THE INTERNAL TEMPERATURE ISN'T LOW ENOUGH

- ▶ Check that the appliance is not near heat sources (stoves, heaters,...)
- ▶ Check that there are no draughts;
- ▶ Check that there is no excess ice on the evaporator / Carry out a manual defrost (if this is not sufficient, switch off the appliance for 24 hours);
- ▶ Check that the temperature is set correctly on the controller;
- ▶ Check that the air passage grilles are not obstructed by packaging, labels, advertising or products;
- ▶ Check if the condenser is dirty/clean it;
- ▶ Check that all components (fans, controller, etc.) are working.
- ▶ The temperature of the food products during supply was higher than the appliance's operating temperature.

3 - THE APPLIANCE MAKES A LOUD NOISE

- ▶ Check if there are moving parts in contact with other components;
- ▶ Check if the appliance is correctly leveled;
- ▶ Check if all elements are properly adjusted/attached.

4 - EVAPORATOR WITH TOO MUCH ICE

- ▶ Check if the food products exceed the load limit set on the unit;
- ▶ Automatic defrosting is insufficient. Carry out a manual defrost as indicated in the controller manual and follow the instructions in the "Cleaning and Maintenance" chapter 6.

5 - THE WINDOWS FOGGED UP FROM THE OUTSIDE

- ▶ Particularly humid day;
- ▶ Temperature too low inside the appliance / Set the temperature higher;
- ▶ Refrigerated air intake grille/channel obstructed by exposed products;
- ▶ Location of the appliance (not in front of external doors?)

6 - COMPRESSOR DOES NOT STOP/WORKS FOR LONG PERIODS

- ▶ High ambient temperature;
- ▶ Check if the condenser is dirty / clean it;
- ▶ Check if the SETPOINT values are too low / adjust them;
- ▶ Check that there is no excessive ice formation on the evaporator / carry out manual defrosting (if this is not sufficient, stop the appliance for 24 hours).



Whenever these checks and the corresponding action do not work, contact the technical services of your local representative. Identify the appliance in question by the serial number on the characteristics label and wait for instructions on how to proceed.

12. DECLARATION OF CONFORMITY

D2C2161A0

DECLARAÇÃO DE CONFORMIDADE CE
EC DECLARATION OF CONFORMITY
DÉCLARATION CE DE CONFORMITÉ
DECLARACIÓN CE DE CONFORMIDAD

Declaramos sob nossa única responsabilidade que o produto:
We hereby certify under our exclusive responsibility that this product:
Nous déclarons sous notre seule responsabilité que le produit:
Declaramos bajo nuestra responsabilidad que el producto:

Mural CRONUS / CRONUS PLUS para uso comercial
CRONUS / CRONUS PLUS wall refrigerated display cabinet for commercial use
Meuble frigorifique vertical CRONUS / CRONUS PLUS pour usage commerciale
Mueble frigorífico Mural CRONUS / CRONUS PLUS para uso comercial

a que se refere esta declaração encontra-se conforme a norma:
to which this declaration refer, is in conformity with the following standard:
auquel se réfère la présente déclaration, est conforme la norme suivant:
a que se refiere ésta Declaración está conforme a la Norma siguiente:

EN 60 335-2-89 - Aparelhos electrodomésticos e análogos - Segurança.

Parte 2 - 89: Regras particulares para os aparelhos de refrigeração de uso comercial com uma unidade de condensação do refrigerante ou um compressor incorporado ou à distância.

EN 60 335-2-89 - Household and similar electrical appliances - Safety.

Part 2 - 89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit of compressor.

EN 60 335-2-89 - Appareils électrodomestiques et analogues - Sécurité.

Partie 2-89: Règles particulières pour les appareils de réfrigération à usage commercial avec une unité de condensation du fluide frigorigène ou un compresseur incorporés ou à distance.

EN 60 335-2-89 - Aparatos electrodomésticos y análogos — Seguridad.

Parte 2-89: Requisitos particulares para los aparatos de refrigeración para uso comercial con una unidad de condensación de fluido refrigerante o un compresor incorporado o a distancia.

e de acordo quanto ao previsto nas Directivas:
is in conformity with the Directives:
est en accord avec ce qui est prévu par les Directives:
y está de acuerdo en cuanto a las Directivas:

2006/42/EC
2011/65/UE
2014/30/UE
2014/35/UE

Águeda, 2023-01-30

All specifications referred in this manual are subject to changes without prior notice
