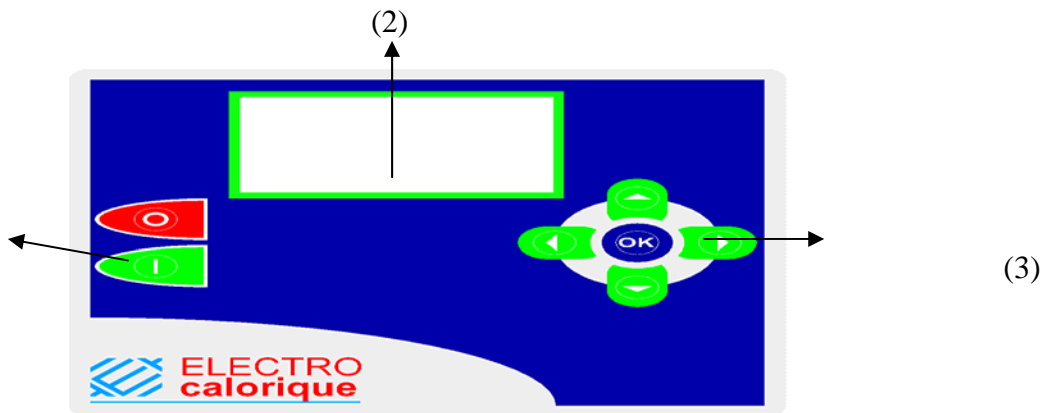




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## **DESCRIPTION OF THE ELECTRONIC PANEL 4302 SERIE**

The electronic panel is the controlling element of the “ERG’ELEC 4000” trolley. It pilots the cooling and heating cycles of the trolley. Various parameters must be entered before use. It is made up of 3 separate compartments:



- (1) On / Off keys
- (2) Main display screen
- (3) Navigation keys

#### On / Off keys



Off or “STOP” key

#### In operating mode

Switches the trolley off at the end of a cycle  
Enables an operating cycle under way to be stopped

#### In programming mode

Enables you to exit the programming mode at any time and return to the home page display.



“I” or On key

#### In operating mode

Provides access to the “Modes” operating sub-menu (automatic or manual) and to the programming mode

#### In programming mode

No action

Home page display

AUTO (1)	45 MIN (2)
READY AT 12.30 (3)	
120° (4)	MONDAY 10h00 (5)

This display provides access to various menus and sub-menus:

(1) Current operating mode. 4 possibilities:

STOP.....	the trolley is connected to the mains supply and awaiting the user's selection
AUTO.....	automatic distribution of heating and cooling, without further manipulation, the trolley will be ready at the time displayed
MANUAL LONG ....	the trolley is heating up, long cycle
REFRIGERATION	distribution of cooling in the cool compartment only, or in the heating and cooling compartments

(2) Trolley number for HACCP (outside heating time) or heating period, which displays and countdowns :

Immediately.....	in the context of a manual heating cycle
Time delay.....	in the context of automatic operation: the heating time is displayed as soon as the automatic operation begins

(3) The following messages are displayed:

In "STOP" mode .....	PRESS I
In automatic mode .....	READY AT xx h xx (time of the next programmed meal)
In refrigeration mode .....	REFRIGERATION
In manual mode.....	READY AT 00.00 (=5)+(2))

(4) Display of the temperature in the cold compartment or the cold and hot compartments

Cold only.....	in refrigeration mode or in automatic mode before the regeneration and after the end of the heating cycle, with the trolley disconnected from the power supply
Alternately.....	when the heating cycle has started

(5) Day and current time.

Navigation keys

In programming mode: enables you to move up through the menus  
In operating mode: no action



In programming mode: enables you to increase a parameter and/or move through a sub-menu

In operating mode, by pressing this key, you can access the “*temperature readings*” display

This display is visible for 30 seconds, and then there is an automatic return to the main menu (by pressing one of the 7 keys on the front panel, you can return to the main menu before the end of the 30-second period)

TEMPERATURE	
COOL SENSOR	x°
PROBE	x°
REFRIGERATION UNIT	x°
HOT SENSOR	x°
PLATE SENSOR	x°



In programming mode : enables you to decrease a parameter and/or move through a sub-menu

In operating mode: no action



Enables you to validate a selection in the main menu or a sub-menu, in operating mode.

## **INSTRUCTIONS FOR USE**

## Reminder

### **For hot line :**

#### Cold food

The refrigeration unit must be connected 45 minutes before loading cold food, in order to cool the compartment. The food must be:

Until 2 hours before serving, at a temperature of 3°C (storage temperature).  
Less than 2 hours before serving, at a temperature of less than 10°C (serving temperature)

#### Hot food

Hot food must be loaded at a temperature of over 63°C, 2 hours at most before serving the meals.

### **For cold line :**

The refrigeration unit must be connected 45 minutes before loading food, in order to reach a temperature of 3°C in the trolley.

#### Cold food

Until 2 hours before serving, at a temperature of 3°C (storage temperature).  
Less than 2 hours before serving, at a temperature of less than 10°C (serving temperature)

#### Hot food

Storage temperature between 0°C and 3°C

### **Possible operating modes**

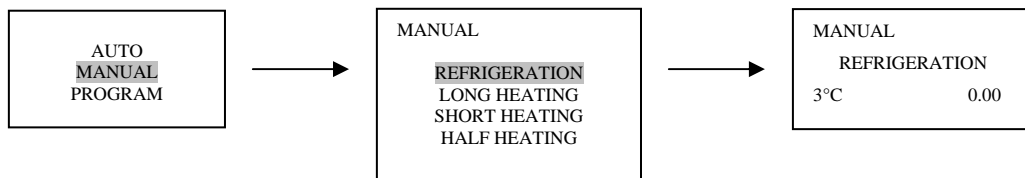
- Automatic mode: used for cold line
  - Enables you to start the heating and cooling cycles automatically, at given times.
  - Starting time for heating = Serving time – (heating period + period of inertia)
- Manual Refrigeration Mode
  - Distribution of cooling only, without any time limit, except for defrosting
  - No distribution of heating

- Manual Mode: Long/Short heating or half-heating : used for cold line or hot line
  - The heating is switched on manually
  - Start of heating: immediately
  - The pairing are : Long cycle / Normal heating, Reduced cycle / Short Heating, Half-Heating cycle / Half Heating

### Instructions for use of the trolley for hot line

#### 45 minutes before loading cold food:

- Check that the doors are correctly closed
- Connect the trolley to the mains supply
- The trolley buzzer sounds
- The home page menu displays “PRESS I”: press key I, and the display then shows



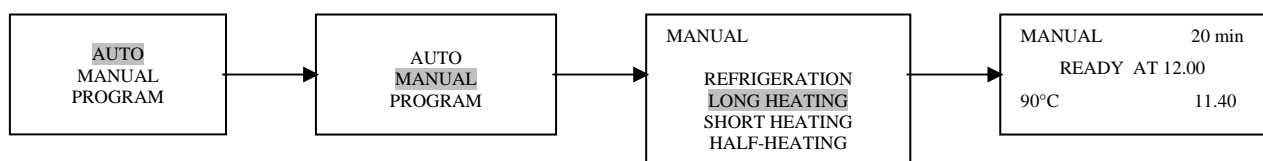
Use the up and down keys to select “Manual”, validate using the “OK” key, select “Refrigeration”, and validate using the “OK” key. After a time lapse of 1 minute, the refrigeration unit is switched on

If the cold food is loaded before the hot food

Disconnect the trolley without pressing any keys  
 Load the cold food  
 Reconnect the trolley directly: the refrigeration cycle restarts without pressing any keys

#### When loading hot food

- Press the “STOP” key
- Disconnect the trolley
- Load the trolley
- Close the doors
- Reconnect the trolley
- The home page menu displays “PRESS I”: press key I, and the display then shows



Use the up and down keys to select “Manual”, validate using the “OK” key, select one of the “Heating” options (long, short, or half), and validate using the “OK” key. After a time lapse of 1 minute, the refrigeration unit is switched on

### *At the end of the cycle*

- The buzzer sounds to indicate the end of the heating cycle

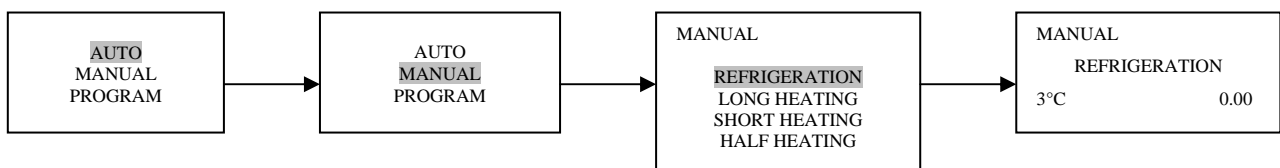
At the end of the cycle, when connected, the trolley automatically switches to the steady temperature mode and the cooling distribution actively continues without any time limit.

- Press the “STOP” key
- Disconnect the trolley: you can start serving

## **Instructions for use of the trolley for cold line – MANUAL Mode**

### *At least 45 minutes before loading food:*

- Check that the doors are correctly closed
- Connect the trolley to the mains supply
- The trolley buzzer sounds
- The home page menu displays “PRESS I”: press key I, and the display then shows



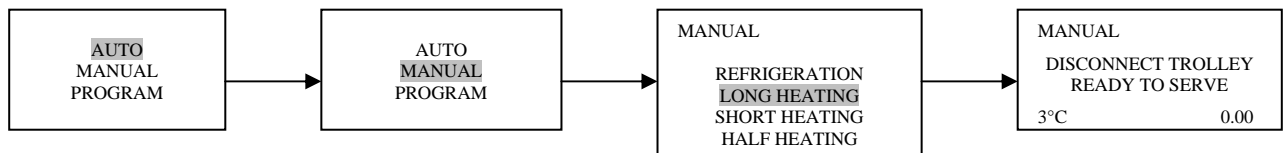
Use the up and down keys to select “Manual”, validate using the “OK” key, select “Refrigeration”, and validate using the “OK” key. After a time lapse of 1 minute, the refrigeration unit is switched on

### *When loading food*

- Press the “STOP” key
- Disconnect the trolley
- Load the trolley
- Close the doors

### *After loading food*

- Reconnect the trolley
- The home page menu displays “PRESS I”: press key I, and the display then shows



Use the up and down keys to select “MANUAL”, validate using the “OK” key, then select one of the “HEATING” options (long, short, or half). After a time lapse of 1 minute, the refrigeration unit is switched on, the trolley displays the time at which it will be ready, the heating time is displayed x minutes before serving time

### *At the end of the cycle*

- The buzzer sounds to indicate the end of the heating cycle

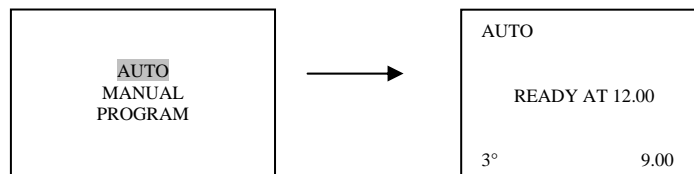
At the end of the cycle, when connected, the trolley automatically switches to the steady temperature mode and the cooling distribution actively continues without any time limit

- Then press the “STOP” key
- Disconnect the trolley: you can start serving

## Instructions for use of the trolley for cool storage – AUTOMATIC Mode

### *At least 45 minutes before loading food:*

- Check that the doors are correctly closed
- Connect the trolley to the mains supply
- The trolley buzzer sounds
- The home page menu displays “PRESS I”: press key I, and the display then shows



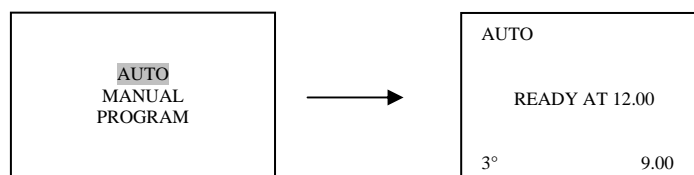
Use the up and down keys to select “AUTO”, validate using the “OK” key. The time of the next programmed meals displays. After a time lapse of 1 minute, the refrigeration unit is switched on

### *When loading food*

- Press the “STOP” key
- Disconnect the trolley
- Load the trolley
- Close the doors

### *After loading food*

- Reconnect the trolley
- The home page menu displays “PRESS I”: press key I, and the display then shows



Use the up and down keys to select “AUTO”, validate using the “OK” key. The time of the next programmed meal displays. After a time lapse of 1 minute, the refrigeration unit is switched on,

### *At the end of the cycle*

- The buzzer sounds to indicate the end of the heating cycle

At the end of the cycle, when connected, the trolley automatically switches to the steady temperature mode and the cooling distribution actively continues

- Then press the “STOP” key
- Disconnect the trolley: you can start serving.

### **Recommendations for use**

- Follow the attached instructions for use
- Avoid opening the trolley doors during the heating and cooling cycles
- Do not switch the trolley off during its heating cycle
- Do not start more than one heating cycle

If the temperature of the food is not satisfactory, modify the programming

- Empty the refrigeration unit tank each time the trolley is returned to the kitchens

The capacity of the condensates container is 250 cl. Nevertheless, to avoid oversights, we recommend emptying it daily

### **Cleaning and disinfection**

- It is essential to use products that are compatible with the various materials making up the trolley.

In the event of use of products that are not compatible or failure to comply with the doses recommended by your supplier of cleaning products, *ELECTRO CALORIQUE* cannot be held responsible for any resulting damage

- Avoid using scouring pads on the polished parts, except in the case of marks that are hard to remove: always rub in the same direction as the polishing

The silicone door and frame seals are removable and can be machine washed.

## **PROGRAMMING INSTRUCTIONS**

## **Preamble**

Programming of the “ERG’ELEC 4300” trolley must be carried out in compliance with the programming instructions.

Once the programming has been entered, it is memorized and validated until further modifications are made: it is saved, and the everyday user does not need to intervene.

### The notion of “Automatic meal”


The “ERG’ELEC 4300” trolley can operate in various modes from one meal to the next. The guiding principle here is to adapt to the various possible organizational systems without having to program the electronic panel: hot line, cold line, mixed line (hot line for the midday meal/cold line for the evening meal), the use of China and disposable tableware, etc.

Programming consists of associating, on a daily or weekly basis, a type of meal with each of the meals of the day (up to 4 if necessary).

Daily or weekly, one or several automatic meals must be entered :

- Meal type : A, B, C, D or E, each having specific heating and cooling specifications
- Loading time : time at which the trolley has to be cool prior to loading the food
- Ready meal time : time of end of heating, the food is ready to serve.

## **Programming common to all the parameters**

- In a menu or a sub-menu, you can move to the desired parameter using the direction keys
- Go to the display of the parameter value
- The value is then shown in grey: use the right or left direction keys to modify the value
- Once the desired value has been modified, all you have to do is exit the menu or sub-menu, via PREVIOUS DISPLAY or by pressing the  key in order to validate the value and/or exit the programming mode.

## How to access the programming mode

- Connect the trolley to the mains supply. The following message is displayed for 5 seconds:

RESTI 4302  
Version # .#

- After pressing I:

AUTO  
MANUAL  
**PROGRAM**

Use the vertical direction keys to select “PROGRAM”, and then validate using the “OK” key.

- New display:

Use the vertical direction keys to select “ENTER THE CODE” and validate using the “OK” key

PREVIOUS DISPLAY  
**ENTER THE CODE**

### **IMPORTANT**      2 programming levels

A certain number of parameters are to be entered before use. There are 2 separate levels of programming.

Operator: provides access to the basic information.

Factory: the intervention must be carried out in the presence of a person from the *ELECTRO CALORIQUE* company.

Access to these 2 programming levels is protected by a code made up of 4 Characters.

ABCD: operator parameterizing

WXYZ: factory parameterizing

- New display:

Use the vertical direction keys to select “ENTER THE CODE” and validate using the “OK” key

ENTER THE CODE  
Move the cursor and validate the code  
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z  
0 1 2 3 4 5 6 7 8 9

Use the direction keys to move along the access code characters, and validate each of the characters by pressing the “OK” key. Validation of the fourth character gives access to the programming level selected.

In the event of an error concerning one or more characters: no incidence, return to the “ENTER THE CODE” display.

“OPERATOR” display:

PREVIOUS DISPLAY  
TIMER  
MANUAL MEAL  
MEAL TYPE  
AUTOMATIC MEAL  
BUZZER VOLUME  
PROBE

“FACTORY” display:

PREVIOUS DISPLAY  
REFRIGERATION UNIT  
TEMPERATURE CONTROL  
HOT TEMPERATURE  
HEATING SECURITY  
TROLLEY TYPE

## OPERATOR programming level

After entering the 4 characters of the OPERATOR code, the new display is as follows :

<p style="text-align: center;"> <b>PREVIOUS DISPLAY</b>            TIMER            MANUAL MEAL            MEAL TYPE            AUTOMATIC MEAL            BUZZER VOLUME            PROBE         </p>
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	Meaning	Range	Step
<b>Timer clock</b>			
Setting the timer clock	Time + Date	From 0.00 to 23.59 + Day	1 min
<b>Manual meal</b>			
Cold Setting 1	Desired cold temperature before the beginning of the heating cycle	0°C / 15°C	1°C
Cold Setting 2	Desired cold temperature during the manual heating cycle	0°C / 15°C	1°C
Long Heating time		0 / 120 min	2 min
Short Heating time		0 / 120 min	2 min
Period of inertia	Time during which the hotplates switch to a cook-chill mode. Useful in cold line, to ensure a uniform temperature in a recipient	0 / 60 min	2 min
Half-heating	Length of half-heating: <b>leave this parameter to "0", or please contact us</b>	0 / 60 min	2 min
Keyboard lock	Enables to lock the manual mode in order to only offer an automatic mode	YES/NO	

**Meal Type** : enables to parameter 5 meal types, which can then be allocated.

Meal type	Enable to name the meal type	From A to E	
Cold setting 1	Desired cold temperature before the beginning of the heating cycle	0°C / 15°C	1°C
Cold Setting 2	Desired cold temperature during the manual heating cycle	0°C / 15°C	1°C
Heating time	Necessary time for holding or regeneration	0 / 120 min	2 min
Period of inertia	Time during which the hotplates switch to a cook-chill mode. Useful in cold line, to ensure a uniform temperature in a recipient	0 / 60 min	2 min
Heating temperature	Enables to select the cycle rate on which the plates operate	Normal/Reduced/Holding/Cold/	
Half-heating time	Length of half-heating: <b>leave this parameter to “0”, or please contact us</b>	0/60 min	2 min

**Automatic meals 1,2, 3 and 4:** possibility of programming up to 4 meals per day, may be done each day.

Programming	The same program will apply each day of the week, or we define every day the meals	WEEKLY/ DAILY	
Meal type	Enable to allocate a parametered meal type to an automatic meal. “OFF” meals the meal is not active.	OFF/From A to E	
Loading time	Time at which the trolley as to be cool prior to loading the food	From 3h00 to 23h55	5 min
Automatic meal time	Time of end of heating	From 3h00 to 23h55	5 min
<b>Buzzer Volume</b>	Adjusts the buzzer volume: 1 (low) to 7 (high)	From 1 to 7	
Time	Determines the length of time during which the buzzer sounds (one period = 30 sec.)	From 1 to 9	
<b>Probe</b>		NO/MANUEL/AUTO	

## FACTORY programming level

After entering the 4 characters of the FACTORY code, the new display is as follows

**PREVIOUS DISPLAY**

REFRIGERATION UNIT  
 TEMPERATURE CONTROL  
 HOT TEMPERATURE  
 HEATING SECURITY  
 TROLLEY TYPE

### Refrigeration unit

Refrigeration control		Yes or No
Cooling time	Corresponds to the cooling time before the “ready for loading” time (cf.: OPERATOR parameters)	From 0h00 to 8h00    5 min
Defrosting cycle	Enables programming of defrosting time, calculation as from the start of the cooling cycle	From 15 min to 9h30    15 min
Defrosting time	Determines the period of time for a defrosting cycle	From 5 to 60 min    5 min
Compartment	Distribution of cooling only in the cooling compartment (1) or in both compartments (2)	1 or 2    1
Refrigeration unit sensor	Type of installed sensor	25 or 10 K    1

### Temperature Control

Degree Centigrade or Fahrenheit	Choice of the temperature scale in degrees	Centigrade or Fahrenheit
Temperature gradient Cold		From -10° to 10°    1°
Temperature gradient Probe		From -10° to 10°    1°
Temperature gradient Refrigeration unit		From -10° to 10°    1°
Temperature gradient Hot		From -10° to 10°    1°

<b>Hot temperature</b>	Cycle rate : Time during which the		
Normal	plates are operating in each minute of	0-60s	1s
Reduced	sequential mode	0-60s	1s
Holding		0-60s	1s

<b>Heating security</b>		40-180°C	1°
Heating security		From	
Plate gradient			

**Trolley type**

Trolley number (HACCP)	Trolley number corresponding to the HACCP. "0" means HACCP is not activated on the trolley	From 0 to 255	1
Number of trays		From 2 to 32	2
Display language	Possible translation of the text displayed in different languages	GB, F, D, NL, SP	
Switch from summer time to winter time, or inversely	Activate time change according to winter or summer time, and according to the geographical area. HACCP function disables time change as HACCP will do it.	Invalid Europe, North America, Australia, South America.	