CIERRECI SRL



Technical data communication system GPRS Pizza Machine 2.0

For both functions, the SMS in question has a text formatted as shown below.

MN [MMMM] MS [U] MA [AAA] MC [PPPPP] LT [TTT] LN [SS] [HH: NN MM / DD / YYYY] RT [TTT] RN [SS] [HH: NN MM / DD / YYYY]

- MN : machine number (serial number machine)
- [MMMM] = identification code machine from 0000 to 9999, see Window maintenance program options.
- MS : machine status
- [U] = state machine (aka "MACHINE_STATUS"), from 0 to 6, 0 = Select product; 1 = Payment 2 = Processing, 3 = Out of service, 4 = Maintenance, 5 = Auto reset; 6 = Simulation.
- MA : machine allarm (code allarm)
- [AAA] = identification code alarm from 000 to 999; "???" Status by SMS.
- MC : machine number cycles
- [PPPPP] = total amount of dispensed products (aka "PRODUCTS_COUNTER") from 000000 to 999999.
- LT /RT : left and right temperature (temperature of fridge left and right)
- [TTT] = temperature cold store SX / DX (aka "TEMPERATURE_FRIDGE1 / 2"), from -99 to +99;
 "LT" for fridge SX and "RT" for fridge DX.
- LN/RN : left and right number (remaining number of pizza left and right fridge)
- [SS] = amount of producible products present in the fridge SX / DX; involved only products contiguous, in the vicinity of the exit from the fridge, not past due or compromise; 00 to 99; "LN" for fridge SX and "RN" for DX fridge.

[HH: NN MM / DD / YYYY] = next date and time of expiry products fridge SX / DX; involved only products contiguous, near the exit area of the fridge, not past due or compromises, before expiry date of all the products involved; "hours: minutes month / day / year ";" 00:00 00/00/0000 "in the case of data not available.



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CE - DECLARATION OF CONFORMITY

CIERRECI S.R.L. Via PRANDI, 2 – 42019 SCANDIANO (RE)

DECLARES UNDER ITS OWN RESPONSABILITY THAT THE MACHINE

Model:C&V 2.0 ULFunction:Pizza cooking vending machineSerial Number n°:026/2016Code data: B-200D

to which this declaration refers COMPLY WITH THE FOLLOWING APPLICABLE DIRECTIVES:

"Machinery" EEC Directive, 98/37 "Foodstuffs" EEC Directive, 89/109 "Low Voltage" EEC Directive, 2006/95 "Electromagnetic Compatibility" EEC Directive, 2004/108 "2010 ADA Standards for Accessible Design" UL - NSF see next pages for the certificate of compliance

Reggio Emilia, March 01, 2016 Signature: **Pifferi Mauro -** Chairman

Signed RECISRE

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Revision nº 18

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CERTIFICA	TE OF COMPLIANCE	
Certificate Number	20130111- E343413	
Report Reference	E343413-2013-01-09	
Issue Date	2013-JANUARY-11	
Issued to:	CIERRECI SRL	
	VIA PRANDI 2	
	42019 BOSCO DI SCANDIANO RE ITALY	
This is to certify that	Refrigerated Vending Machines	
representative samples of	Vending Machines of a type Refrigerated and Cooking Vending Machine.	
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.	
Standard(s) for Safety:	UL 541 – Refrigerated Vending Machines, CAN/CSA-C22.2 No. 128-95 – Vending Machines, UL 197 - Commercial Electric Cooking Appliances,	
	CAN/CSA-C22.2 No. 109-81 - Commercial Cooking Appliances.	
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information	

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers: "O" the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.

Witten R., Carvey, Olivotar, Aireth Anatoan: Certification Programs US. LLC Any Information and Socialementation Involving U. Mark services are provided on behalf of U. (LCC (LL) or any sufferible Floreau context is both U. Contexter Service Representative at press of contexter burgets. 4

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NSF International

789 N. Dixboro Read, Ann Arbor, MI 48105 USA

RECOGNIZES

Cierreci SRL Facility: Scandiano (RE), Italy

AS COMPLYING WITH NSF/ANSI 25 AND ALL APPLICABLE REQUIREMENTS. PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE AUTHORIZED TO BEAR THE NSF MARK.







-

This contificum in the property of NSF horomatical and must be returned upon request. This certificate remains vold as long as this client has products in Listing for the referenced standards. For the score current and complete Listing information, ghane acoust NSF's within (www.sef.org).

November 14, 2016 Certificate# C0176145 - 01

Sarah Krol Giobal Managing Director, Food Salery Product Certification

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GEORG DEUTSCHLE STR: 70	
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F-mail: $info@nizton de$	
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PIZTOP	
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Chapter 1. Introduction

The purpose of this manual is to convey all the necessary information for a safe and competent use of the **"COOKING VENDING MACHINE" hot pizza vending machine,** of which this document is an integral part.

The following data is aimed EXCLUSIVELY at specialists, those able to manage the product in a way that is safe for people, the machine and the environment, fully respecting established directives.

This document does not detail information regarding assembly, dismantling, extra-ordinary maintenance, repairs and installation of any accessories, as these operations should always and exclusively be carried out by the Manufacturer (as indicated on the cover).

In order to use the product correctly it is necessary to ensure that the manual remains legible and well preserved. In case of damage, or simply for a more detailed technical or operative understanding, directly consult Technical Assistance.

This manual is the property of CIERRECI s.r.l..

In the absence of written permission by the Manufacturer, it is forbidden to copy or transmit it using any mechanical, electronic or other means. Permission is granted to the purchaser to photocopy and distribute any necessary copies to the operators, with the obligatory wording "for internal company use (corporate name)". One original copy will be supplied, unless alternatively agreed on at the time of order.

The manual is delivered at the same time as the "COOKING VENDING MACHINE" hot pizza vending machine, constituting an integral part; and must accompany it even in the event of transfer. It must be kept for the complete operational lifespan of the vending machine (from when it is put on the market to its demolition) and stored in a safe, protected place. In the event of loss, a request should be made to CIERRECI s.r.l., who at a charge will provide a duplicate.

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This technical document fully illustrates the main features of "COOKING VENDING MACHINE" hot pizza vending machine in order that the purchaser is able to get optimal performance and operate in safe conditions throughout its entire functioning existence. It is aimed at all workers involved in the handling, transportation, installation, operation, adjustment and decommissioning of the "COOKING VENDING MACHINE" hot pizza vending machine, as well as those responsible for its maintenance. To this end it is essential that such operators carefully read the Instruction Manual on its use and maintenance before carrying out any work on the "COOKING VENDING MACHINE" hot pizza vending machine.

CIERRECI s.r.l. declines any responsibility for damage caused to individuals and/or the environment arising from failure to comply with the directives contained in this manual.

CIERRECI s.r.l. reserves the right to make, at any time and without notice, any modifications and improvements deemed necessary for commercial and/or technical reasons; therefore the data and information listed below may be modified and/ or updated.

1.1 Warranty

CIERRECI s.r.l. guarantees that the automatic "COOKING VENDING MACHINE" for hot pizza has been successfully tested in its workshop.

We guarantee that all the goods that we produce and sell are marked by our trademark and faultless for a period of 12 (twelve) months from invoice date. We do not guarantee that our products or parts of them are suitable for any other use.

The Buyer have to inform us within 8 (eight) days from finding any concealed fault or within a date when a diligent Buyer ought to have found it, and within 8 days from goods delivery in case of a defect immediately found. The lack of written notice from the Buyer within the agreed time-limit will relieve us from any responsibility.

Any legal action shall be taken by the Buyer within 12 (twelve) days from the goods delivery date.

Our responsibility according to this guarantee is limited to the only replacement or free repairing of faulty parts, exclusively at our headquarters. Transport costs are at the expense of the Buyer. The guaranteed details are marked by proper coupon. Replaced materials are still in our possession. Our possible repair service at the Buyer or in a place different from our headquarters lead the Buyer to pay all the expenses concerning travel, board and lodging, and whatever else is necessary to transfer our staff in charge.

It is assumed that the guarantee is not valid when products or parts of them: (i) are subject of the wearing effect of use, as for example locks, lamps, glasses, devices and

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external cover, parts made of glass, plastic, rubber, (ii) have a natural life that is inferior compared to that of this guarantee, (iii) have not been properly stocked, installed, used, maintained, repaired, or have been damaged by the corrosive action of not suitable detergent and additives, or have been modified or repaired by a third party, or have an irregular voltage power, (iv) have been involved in a damaging event of which we can not be considered responsible. In any case, for all products and parts covered by the guarantee, any delays in providing the service do not allow payment suspension. In case of payment delays or Buyer insolvency, even if partial, we are exempt from the guarantee.

1.2 General Precautions

In order to ensure a correct operation of the refrigerator compressor, a minimum space of 25cm (9,84252 inches) between the machine rear part and a wall is strictly required.

The vending machine has been designed for internal use.

IT IS FORBIDDEN TO PLACE THE MACHINE IN AN AREA WHERE THE AMBIENT TEMPERATURE IS LOWER THAN 0°C (32° F) OR UPPER THAN 38°C (100.4°F) - EVEN FOR A BRIEF PERIOD TIME.

Before any work is carried out on the machine, always ensure in advance that the contents of the manual are clearly understood. The non-compliance of the requirements contained therein exempts the Manufacturer of any liability. If any clarifications are needed, apply directly to the Manufacturer.

The use of the machine discussed in this manual is outlined in chapter 2. Any variation of use or non-respect of the technical parameters listed henceforth may constitute a danger PIZTOP GEORG DEUTSCHLE STR: 70 73730 Esslingen. Tel. ++49 0 71537505025 E-mail: info@piztop.de

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for persons and/or objects. Any use not included or clearly deducible in the pages of the manual is to be considered UNADMISSABLE.

Handling, lifting, installation, use and maintenance must be carried out by qualified, psychologically and physically competent personnel, in full compliance with the instructions below and in accordance with current safety rules.

Check that the supporting surface is adequate to bear the weight of the machine prior to the installation phase.

It is absolutely prohibited to get close to the machine whilst wearing inappropriate clothing (e.g. ties, loose clothing, etc) and personal items (bracelets, watches, etc).

In the event the operator has long hair, it is imperative it is tied back in a way that it cannot get caught in the moving parts of the machine.

Do not get in or near moving parts without engaging the emergency controls of the machine. In any case, follow the requirements set out by the Manufacturer.

It is strictly forbidden to tamper with equipment and/or safety devices.

Any and all maintenance must be made by specialised personnel and directly authorised by the Manufacturer.

Personal protective equipment as described below should always be provided. Follow all current health and safety regulations.

Ensure there is adequate lighting in the area surrounding the machine and keep the vicinity uncluttered and clean.

It is strictly forbidden to place and/or leave on the machine or its subsidiary parts and/or its moving parts, any tools, equipment, work remnants or anything else that may potentially be harmful for people or effect the integrity of the machine or its product. Moreover, prior to initiating the function cycle check that no such hazards exist.

All operations of installation, dismantling, assembly, extra-ordinary maintenance and product repairs etc., must always and exclusively be carried out by specialised personnel who are directly authorized and/or coordinated by the Manufacturer.

It is strictly forbidden to remove or damage data-plates affixed to the machine. In the event of damage – replace with the utmost urgency by applying directly to the Manufacturer.

Before starting the machine, always ensure in advance that the materials are correctly fastened.

Always ensure in advance that all electric cables used are the correct diameter and length and fully respect the recommendations set out hereafter.

In the event that cables of the main installation should cross the area surrounding the machine and/or adjacent ground, take all the necessary safety and protection measures.

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It is strictly forbidden to change the voltage values established at the time of testing.

Before starting any checks and maintenance, it is needed to shutdown Windows 7 operating system through control panel.

Subsequently, turn off the power by switching off the following devices:

- SPS (Standby Power Supply) located in the PC area (see Figure 33 at page 31);
- Switchboard main switch and switch QF1 located in the machine rear side (see Figure 37 at page 34);

Anyhow, do perform control and maintenance only after having ensured that the machine has been effectively switched off.

Operator's equipment

Any operation involving use, handling, maintenance and cleaning must be carried out in conditions of maximum safety, adopting the individual safety measures identified by the risk analysis performed by the user company in line with the measures set out in the **current and local** safety regulations (in particular the Law Decree 81/08).

Specifically, it is necessary to use:

- **Protective gloves** when handling any mechanical parts overheated, pointed or sharp.
- safety shoes.



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1.3 Waste disposal and decommissioning of machine

Machine 2.0 consists mainly of steel, aluminium, ferrous materials and other materials not metallic (rubber tubes, plastic etc.) that are not particularly dangerous. Their disposal, therefore, does not require any particular safety measures other than those conventionally adopted for this kind of waste.

Oils, fatty and other waste products, must be disposed of in compliance with environmental and hygiene standards of the country in which the machine is installed.

Chapter 2. Machine Description

2.1 Identification

The essential data for the machine identification are deduced by the data label fixed on the structure's external surface.

WARNING: It is strictly forbidden to remove or damage the data label. In the event of damage, always and exclusively inform the Manufacturer.

Any use, maintenance or cleaning operation must be carried out in conditions of maximum safety, adopting the necessary means of protection (helmet, gloves, protective shoes, overall, glasses etc.). In any event, follow the current safety regulations.

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The identification label (or data plate) is placed on the machine back side, please see the 2 sample labels:

Ul certification label (Fig.1).

CULUS CULUS INTERNAL INCOME	CIERRRECI S.r.I. Via Premuda 30 - 42100 Reggio Emilia - ITALY Factory Location: Via G. Prandi 2 - 42019 Bosco di Scandiano (RE) Tel. + 39 0522 342171 Fax + 39 0522 343070 ELEMEN ELEMENTINO MACINE		
COOKING VERICING MACHINE			
MODEL: 2.0 UL	CODE DATA: A-200A		
All Products:			
See Sec. Gen. for manufacturer & materials.			
with:	118-129 228-240 60		
Phone	1		
Compressor 1, A:	2.7		
Compressor2, A:	2.7		
Upper Oven Lamp: A:	12.0		
Lower Oven Lamp, A:	14.8		
Cond Pan Motor, A:	0.56		
Cond Fan Motor, A:	0.38		
Exap Fan Millix A	0.14		
Course From Million &	0.14		
Target Comparison 110, 12010	1400.417		
Min Cir Amonetin II.	- 65		
Max Organization France or Carpait Resolver Size	- 65		
Table 2 commettoe 220-240 V			
Min Cir Ampacity A	25		
Max Overcurrent Fose or Circuit Breaker Size	25		
For Indoor Use Only			
Rahiperated Venderg Machines Dety			
	a150077		
Tether	84044		
Amount, od (gr)	5.64 (168)		
1000 000	1 A.M.		
The part of the second se			
	COOKING VENDONG MACHINE COOKING VENDONG MACHINE COOKING VENDONG MACHINE COOKING VENDONG MACHINE All Products See Sec. Gen. for transutacturer & materials All Products Gene Sec. Gen. for transutacturer & materials With: Prospansor Prose Compressor1_& Com		

Fig. 1

NSF certification label (Fig.1b).

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The raw product is loaded, by specialists, into one or two vertical storage sections called compenser placed inside the machine's refrigerators (it depends if the vending has one or two fridge unit).

An automated system transfers the pizzas from the refrigerator zone to the oven cabinet and finally to the output area.

The good can be purchased by using money or credit cards.

It is strictly forbidden to use the machine for any purpose different to what indicated in this manual.

Moreover, it is absolutely forbidden to use the machine in any manner that conflicts with the technical characteristics listed below.

The "COOKING VENDING MACHINE" works exclusively with pizza boxes provided by CIERRECI s.r.l.

CIERRECI s.r.l. declines any responsibility for any damage due to the use of NOT suitable products.

All parts of the "COOKING VENDING MACHINE" that are in contact with food on an ongoing basis, not accidentally, are subject to this contract.

2.3 Vending Machine Outlook and information

The Vending Machine 2.0 is meant to be made with one or two fridge unit as needed (Fig. 2a, 2b).

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Fig. 2a Two fridge unit machine

Two fridge Vending Machine Data Sheet	measures
Dimensions	2010x1710x840 mm
left refrigerator sumsung videos added thickness	92 mm
left refrigerator sumsung videos added weight	12 kg
Loading system	forklift
Movement	Casters / wheels
Weight	480 Kg weight without pizza
Capacity	40 pizzas each fridge
Refrigerator temperature	-18-20° C
Cooking temperature	250°/380°C manageable
Coking time	About 3 minutes
Full delivering time	10/30 sec. over 3 minutes
Needed voltage	220/240 V AC/DC - 50 Hz
Needed power	4 Kw

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Fig 2b One fridge unit machine

One fridge Vending Machine Data Sheet	measures
Dimensions	2010x1070x840 mm
left refrigerator sumsung videos added thickness	92 mm
left refrigerator sumsung videos added weight	12 kg
Loading system	forklift
Movement	Casters / wheels
Weight	340 Kg weight without pizza
Capacity	40 pizzas
Refrigerator temperature	-18-20° C
Cooking temperature	250°/380°C manageable
Coking time	About 3 minutes
Full delivering time	10/30 sec. over 3 minutes
Needed voltage	220/240 V AC/DC - 50 Hz
Needed power	3.5 Kw

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On the central door are mounted the following accessories (Fig. 2a, 2b, 2c, 3):

- Upper lock closing.
- 12 inches Monitor for the interaction between the machine and the client.
- Touch screen button to select left fridge pizza.
- Touch screen option to select a language.
- Touch screen key to return change.
- Touch screen button to select right fridge pizza.
- Wanted payment system device.
- Pizza exit slot.
- Lower lock closing.

On the left refrigerator door it is placed a – 220V - 40 inches monitor - for the **Documentation will be supplied by Cierreci.**

The two fridges machine unlike the single units vending has a second refrigerating cell placed to the right of the oven compartment.

Each fridge has a proper compressor and its documentation will be supplied by Cierreci (see the Appendix).

2.3.1 Description machine single parts

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Machine central door – basic front view to be customized (Fig. 2b,2c)



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Fig. 2c

Within each freezer is located a vertical warehouse storage which can contain up to 40 boxes.

The choice of pizza and its purchase is activated by products selectors.

The interface software warns the consumer when both refrigerators are empty and then it inhibits the acquisition of money.

The freezers are maintained at -18 / -20 ° C (-0.4 / -4 ° F).

All components that come in contact with edible items are made of parts conform to the European Community and international food industry.

NOTICE:

This vending machine is designed for the U.S. market, all materials are compliant with the NSF regulatory as described in the following pages.

The final cooked pizza release takes place through the exit slot (made of plastic approved by the NSF 51) positioned in the front of the machine, thus avoiding the direct contact between the user's hands and the hatch closing (Fig. 3).





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Fig. 3 – Pizza exit slot

Machine central door – Internal view (Fig.4) and PC area (Fig.5).

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Fig. 4

Fig. 5

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Fig 10 Pusher and Photocell last box on pate

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An automatic defrosting system has been developed to avoid the pusher gears freeze. For more details, see the Appendix.

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Fig.

Ejector – Mobile oven - Elevator - Gates

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Fig. 14 ejector and grill – backward position



Fig. 15 ejector – forward position

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Fig. 16 Grill – backward position

The upper oven can be disassembled to allow deeper cleansing, see the Appendix.

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Fig. 17 Grill – forward position

The Vending machine is provided of a stainless steel grill coated by NanoXham approved by the NSF 51 regulatory.



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Fig. 18 Upper oven

Fig. 19 Trap heat above upper oven



Foto Termocoppia nel forno superiore Fig. 20 Lower oven

Fig. 21 elevator - "Pizza load" position position

Fig. 22 elevator - "ejector" and "rest"

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fridge to

Fig. 24 gate for exit pizza from the fridge to the elevator

Fig. 25a Pizza exit hatch closing



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Fig. 25b Pizza exit hatch opening _



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Fig. 26 Pizza exit hatch cover _



Fig. 27 Left fridge cooling unit*



* For fridge units more details, see the Appendix.

2.4 Overall dimensions and weights

Two fridge unit Vending :

- Height: 2010 mm
- Width: 1710 mm 840 mm _
- Depth: -
- Weight: 480 Kg -

One fridge unit Vending :

- Height: 2010 mm
- Width: 1070 mm -
- 840 mm - Depth:
- 840 mm Weight: -

left refrigerator video added weight : 12 Kg left refrigerator video added width : 92 mm

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Transport packaging weights and sizes are as follows

- Wooden packaging weight 150 Kg
- Full size, machine plus wooden box 2180x1700x850 mm

2.5 Security devices

The vending machine is equipped with a number of safety devices designed to minimize hazards to the operator. It's however important to recognize that it is impossible to eliminate all risks connected to the machine. Therefore maximum care should be shown by the user in all phases of use. Particular emphasis is given to the risks listed in chapter 5. Listed below some security devices :

A. Fixed protection shields to isolate all the machine internal parts, mainly in the product movement and oven areas (Fig. 31a,31b);

B. anti-intrusion locks (Fig.32a) with detection sensor state (only on lower lock Fig. 32b); **C**. SPS which among the other things allows the machine to complete the cooking latest cycle in progress in case of power supply failure (Fig. 33);

D. safety switches that prevent the machine to work when the doors are opened (Fig. 34); **E.** key switch interlocked supplied only to the technician to perform manual maneuvers when testing the machine mechanical parts (Fig. 35a, Fig. 35b);

F. 200 C° (392F°) bimetallic thermostat placed in the upper oven (Fig. 36a) and 200 C° bimetallic thermostat placed in the lower one (Fig. 36b), to protect the ovens lamps control circuits;

G. Pizza box detection photocell, to verify the carton box actually lies above the elevator plate and then the pizza is consequently placed above the grid before proceeding with the cooking process (Fig. 36c);

H. anti-collision control sensors to prevent damages between the lift elevator (Fig. 36d) and the lower oven (Fig. 36e);

I. electrical components comply with the C.E.E. and U.S.A. standards (Fig. 37);

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Fig.31a Monitor and front view



Fig.31b Carter and rear view


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Fig. 32a lower lock

Fig. 32b sensor auto cycle

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Fig. 33 SPS

Fig. 34 magnetic sensors fridge door





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Fig. 35a manual position

Fig.35b auto position

Key enabling manual handling of mechanical parts of the oven and refrigerator area.







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Fig. 36c photocell box on elevator after leaving pizza on grill





Fig. 36d, sensor to avoid elevator collision - Fig. 36e, sensor to avoid lower oven collision

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Fig. 37, electric panel 100/240 V AC- power

Chapter 3. Transport and installation

WARNING: The operations described below are to be carried out, always and exclusively, by specialized personnel, in compliance with the manual and the health and safety local regulations.

Moreover, transport and/or movement should be carried out only after a proper consideration of the journey conditions, lifting issues, distance, environment matters and location characteristics in which the machine will be placed.

WARNING: The transport carrier as well as the lifting tools must be chosen taking into full consideration the vending machine physical characteristics such as, mass, size, weight, points of weakness and strength.

the Loading and unloading operations must take place in line with local regulations and the instructions provided in the manual.

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3.1 Lifting

A forklift is recommended to lift and move the machine 2.0, in this case please take the following precautions:

• Select a forklift suitable for least 500 kg. at least (1100 lbs).

• The lifting process must be assisted by a second operator to provide instructions to the forklift driver.

- Space the forks of the truck so as to ensure the stability of the taking.
- Collect and duly lock the power cord so not to general cause hindrance.

• Load the machine from its back side and make sure that is not connected to any electrical outlet.

• Perform movements with the forks as low as possible.

It is strictly forbidden to balance the machine by climbing on it or putting material or foreign objects on top! It is absolutely forbidden to leave the load suspended!

For brief movements, once the machine is put down on the floor it can be moved by properly using its wheels (Fig. 38).



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Fig. 38

NOTE: For the U.S.A. market, the machines have been equipped exclusively with movable wheels (casters) in accordance with the regulatory NSF2.

3.2 Installation

To ensure the machine a greater precision and the best performance, it is important that it is installed in a location with a low level of vibration, dust and fumes and with a moderate temperature and humidity.

Installation should be done on a surface as flat as possible and devoid of any slopes or unevenness.

Once grounded, the machine must be stabilized using the special brakes on the front wheels (Fig. 38).

This machine must not be installed in an atmosphere that is potentially explosive.

The installation surface should be resilient to bear the vending weight of 500 kg. (1100 lbs) plus a certain number of customers.

An adequate space must be left around the machine, taking into account the need to access for maintenance, for loading the fridges and similar.

Please refer to the overall dimensions given in chapter 2.4

The machine should be placed in an area which is adequately illuminated. The power supply cable must be as short as possible and put in an area where it will not be damaged.

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3.3 First steps for the machine start-up

- **a)** Remove all the protections from lamps and oven that were used for transportation.
- **b)** Remove the metal shield protecting the oven using the socket wrench #8 as supplied, Fig. 39.



Fig. 39

c) Remove the ovens glasses protection using the socket wrench #7 as supplied, Fig. 40,41.



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Fig. 40

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Fig.41 Nextrema Glasse 718-13TK 278x278x4 mm

d) Insert the glasses into the ovens Fig. 42a, 42b.

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e) Connect the machine cable to the electricity panel socket, Fig. 47.

f) Turn the SPS on (**Standby Power Supply**), Fig. 43.

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Fig. 43 SPS

- g) Load the fridges of pizza (see the appendix for details).
- h) Update the fridge load storage PizzaCookingStudio page by writing number of pizza, its expiring date and its identification codes, Fig. 44 (see the Appendix).

in formal action ranges	A cost of the	fronte de la contra	and Distances 111		-	
No. of Concession, Name	structure I structure and I	Marrie Coloria	Land data free	National State States	I Proveder	Concernant of
and the second s	a second second second second	The second of	the second stress and the state	and the second second second	A DESCRIPTION OF	A second
er allafitet		Manufacture .	00.001/0004 01 No 001	INVESTIGATION IN THE INC.	Column 1	(Frankers
and the second		The should be	the supplicities of 5 lies (who	many second and the state	A Dense	diam'r.
Active and the	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Paratrata	the data provide and the state	anterior terms and the sub-	finan .	of sales
ALCONTRACT.	1.	Mandanta	on macross at he on	Interaction and the sec-	Dear	Paint.
	1. 1. 1. 1. 1.	The plants	the statement with the state	saturations an be pair.	Sec.44	A sales

Fig. 44

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i) Close the central machine door and order an automatic restart turning the lower key.

3.3.1 Connection to external power sources



CAUTION: Automatic machine of Class 1, requires protection for indirect contact with the installer, any operation of wiring and / or connection to the electricity net should be done always and exclusively by

specialized service personnel.

Please select a connection mode according to power supply voltage of your location area.

The Machine needs a 25A bipolar switch of Class D when connected to the power.

3.3.1a Connection mode for areas at 220-240 Volt AC, 50/60Hz

Supply the machine with voltage net power of 200-240 **Volt AC**, sticking to diagram showed in **"Wiring Diagram book" – Enclosure Sheet n.1, as below:**

POWER SUPPLY: 200-240 Volt AC (20A) TOTAL POWER: 4 KW

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Connect the power supply cable to the terminal passing through the cable duct, Fig. 45.

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To connect the net power supply wire to the machine use the <u>cable gland</u> and the cable duct already set as shown in Fig. 46.



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Fig. 46

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• <u>Make sure that the machinery is efficiently grounded and that the line is</u> protected by a magneto-thermic switch and by a **G.F.C.I.** (ground fault circuit interrupter properly calibrated for 0.03 A) Fig. 47.





- When Out-door, its strongly suggested to arrange for a further equipotential grounding, connected to the lower rear part machine terminal. Please look at the symbol. (Fig. 48).



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Fig. 48 Additional ground connection Min 6mm or Style 5016 AWG 10

Chapter 4 Machine use

IMPORTANT: the machine starts working after it has been installed and connected to the external power source, as mentioned in the previous chapter.

4.1 Main commands

The machine management interface PizzaCookingStudio works through XP Windows operating system.

The main commands refer to the functional keys placed on the display lowest part (Fig. 50). To set cooking recipes and machine parameters, connecting a keyboard and a mouse to the machine internal PC.

In the following chapters more detailed information can be found.

PC, Console key, Fig. 49.



Fig. 49

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1-Salamino5-MargheritaImage: Solution of the second secon

Screen bottom functional keys Fig. 50

4.2 Homepage system

When opening the front door, the display shows a homepage which includes:

- Tree menu on the left to access to all system functions;
- Fridge Loading window to (Fig. 51, 52).

Edit User	Germania			mentions, providence and		_	
ige load storage	Load	I E	mpty Load p	bizza End loading			
2.Durkt	Position	Pizza ID	Pizza label	Load date/time	Expiry date/time	Expired	damaged
ive alarme	6	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
rms history	5	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
duction history	4	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
ine history	3	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
de ment	2	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
	1	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False

Fig. 51

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To see how to properly put pizzas into the storage and how to load the machine by software, see the Appendix, page 139.

1-Left		
Fridge	1-Left	~
Pizza	1-MARGHERITA	~
Expiry days	0	
Quantity	0	
Reset Empty		Load Cancel

Fig. 52

4.3 Tree Menu

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File Edit User Main window Fridge load storage 1-Left - 2-Right Pizza archive - 1-Pizzart 2-Margherita - 3-Simulazione 4-Focaccia Active alarms Ξ Alarms history Alarms properties Production history Fridge history Oven management commands Fridge management commands 1-Left ····· 2-Right Inputs status Outputs status **Oven parameters** Elevator parameters Ψ

Fig. 53

4.3.1 Main window

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ile Edit User		
tain window	Edit Restore	
ridge load storage	Data Value	
1-Left	General circulation analytics	
2-Right	Without howar circulation anabling Edica	
izza archive	Curles counters 102	
- 1-Pizzart	Cycles counter 195	
2-Margherita	Laft foldes compared hours 1015	
- 3-Simulazione	Left mode compressor hours 1015	
4-Focaccia	Fight mage compressor mans 1954	
ktive alarms	Left hidge cel temperature (*C) 23,4	
Varms history	Right Indge cel temperature (%) -18,7	
Varms properties	Left fridge evaporator temperature probe (*C) 23,2	
roduction history	Right fridge evaporator temperature probe (°C) -22,3	
vidge history	Left fridge condenser temperature probe (°C) 19,3	
ven management commands	Right fridge condenser temperature probe (°C) 27,4	
ridge management commands	SPT version - 1 1	
1-Left	SPT version - 2 50	
2-Right	SPT version - 3 4	
nputs status	SPT version - 4 0	
utputs status		
iven parameters		
levator parameters	La a la Massaga	

Fig. 54

- **General simulation enabling**: allows the constructor to test the machine without using the payment system.

- Without boxes simulation enabling: allows the constructor to test the machine without using neither the payment system nor boxes and pizzas.

- **Cycles counter**: number of machine cycles or number of pizza being cooked since the start time. That value can be reset anytime.

- Oven lamps working hours counter: number of oven working hours.

4.3.2 Fridge load storage

Fridge	1-beft	
Pizza	1-MARGHERITA	~
Expiry days	0	
Quantity	0	

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Fig. 55

To fill in the **Fridge load storage (left and right)** with number, expiry date and Pizza code, please see the **Appendix.**

4.3.3 User enabling

Main window	Load Empty		-		
1-Left	E liver includence			Expired	damaged
2-Right	oser opniogour			0 False	False
Pizza archive	1 manual 1			D False	False
1-Doowt	Name			D False	False
2-Marcherita	Descoursed			0 False	False
- 3-Smulazione	Password			0 False	False
4-Focaccia	Current user name	Cierreci			
Active alarms			- 1		
Alarms history					
Alarms properties	En activité				
Production history	Logn	Logout Cancel			
Fridge history	- 12				
Oven management commands					
Fridge management commands					
-1-Left					
2-Binht					

Fig. 46

Any manual intervention, any operating parameters setting or any control of operations, requires the operator to Login as a **super-user**; through the dialog, box do select **User** option, then access with Name: **Cierreci** and Password: **tq21su**.

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4.3.4 Pizza archive



Fig. 57

In "Pizza archive" pages, pizza's cooking parameters are being set for each single type of meal.

Point the cursor on the value to be changed, e.g. 170 sec. for "cooking time", click on "**Edit**" and enter the desired value in the dialog box (Fig. 58).

Main window	Edt	
Fridge load storage	Datur	Value III
- 1-Left		2
2-Hight	Description	Margherita
Pizza archive	Cooking time (sec	170.00
1-Puzzart	Temperature holding time (sec	30.00
2-margherica		
3-Simulazione	Cooking time	
4-Pocaccia	-	
Active alarms	170,00	
Alarms history	-	
Alarms properties	Max length ch	haracters 11
Production history	Interva	d validev 0.01~21474836,47
Fridge history		
Oven management commands		Measure sec
Fridge management commands		
- 1-Left		ai 1995 - 199
2-Right		OK Cancel
Inputs status	1	
Outputs status		
Oven parameters		
Elevator parameters	u a s w Messages	

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Fig. 58

Archive Commands description (Fig. 57):

Description – name of meal such as Margherita, Salamino, Vegetable, etc.

Cooking time - which is the effective cooking time while reaching the highest set temperature. this parameter can be modified while setting the recipe preferences.

Temperature holding time - to complete then cooking as wished. this parameter can be modified while setting the recipe preferences.

Time of Ignition lamps EH1/EH2 - divides the machine power between the lamps upper and lower in order to cook more on the top or more down so to gain a greater cooking uniformity taking into consideration the thickness of its dough and its filling. This time is in hundredths of seconds out of 50Hz .

this parameter can be modified while setting the recipe preferences.

Cierreci, strongly suggest to keep this as 9/2 as shown.

EH1:1950watt. EH1-1:850watt. - EH2:2650watt.

Oven lamps ignition inversion time - namely the starting cooking time with ignition priority assigned to the lower lamps so the product may have a well crunchy bottom after the set time the process reverses and the priority is assigned to the upper lamps for the remaining time (please see Cooking time).

Maximum temperature holding - that is the maximum temperature desired as cruise temperature.

Lamps end cooking ignition time - which is an additional working time of the upper lamp while the system is preparing to expel the prepared pizza.

This addition keeps the product warm during the expelling. It is not necessary to change this value already set.

Price - pizza selling price to be modified as required.

Ingredients – so that all the ingredients can be displayed. For each pizza, these must be separated by a comma and a space.

Grill forward balancing time - further progress phase that allows the entire pizza to be placed on the grill.

Grill backward balancing time - pizza balancing phase inside the upper oven.

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Initial cooking temperature - is the minimum temperature the oven must reach before the machine starts the full cooking countdown.

Cooking time regulation (1-5): seconds to detract from cooking time considering the Temperature value at the beginning of cooking.

Holding time regulation (1-5): seconds to detract from holding time considering the temperature value at the beginning of cooking.

N.B. these last three functions would be repeated 5 times by the system. Due to the initial cooking temperature value, different times of cooking and holding would be detracted, automatically by the system.

Clicking on "**Edit**" from the toolbar over the tree menu it could be added a new pizza type with all its details. (Fig. 59)

Main New pizza	Edk	
Fride Delete pizza	Datum Value	
2-Right	ID 2	
Pirza archive	Description Margherita	100
1-Pizzart	Cooking time (sec) 170,00	
2-Marcharita	Temperature holding time (sec) 30,00	
3-Simulatione	EHI/EH1-1 lamps ignition time (1/100 sec) 9	
4-Eocaccia	EH2 lamp ignition time (1/100 sec) 2	
Artice alarms	Oven lamps ignition inversion time (sec) 40,00	
Alarms history	Maximum holding temperature (°C) 270	
Alarms properties	Grill forward balancing time (1/100 sec) 1	
Production bistory	Grill backward balancing time (1/100 sec) 1	
Eridoe history	EH1/EH1-1 lamps end cooking ignition enabling False	
I I FARMEN I BARNET J		

Fig. 59

The interface PizzaCookingStudio Archive can keep recorded 4 kind of different pizza receipts concurrently.

4.3.5 Active alarms

In case the machine PC detects any malfunction a red string "Alarms!" will be shown on the page bottom (Fig. 60 e Fig. 61). In addition, if clicking on **Active alarms**, a list of current alarms/errors will be displayed on a proper window. This function allows to have a snapshot of the state machine situation.

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Grill parameters	w H	4 н н	Messag	jes /				
			Alarmst			Current user name = Cierre	d i	CAP NUM SC
				Fig.	60			
🐔 PizzaCookingStudio 1.2	4.1							E
File Edit User		-	_				-	
Fridge load storage	Load	-	Empty	Load pizz	a End loading			
2.Dinhe	Position	Pizza ID	Pizza	label	Load date/time	Expiry date/time	Expired	damaged
Artice alarma	6	1	Margh	verita	01/03/2016 12:34.00	08/03/2016 12.34.00	True	False
Alarms history	5	1	Margh	ierita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
Production history	4	1	Margherita		01/03/2016 12.34.00	08/03/2016 12:34.00	True	False
Fridae history	3	1	Margh	verita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
	2	1	Margh	erta	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
	1	1	Margh	renta	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
		H Mes	ssages /			Current user name = Operat	or 1	CAN NUM SO

Fig. 61

The string alarms alerts the operator that some maintenance must be done. Any alarm is matched by a numeric code and a verbose description. Please check the user manual procedures to fix the problem occurred. See Chapter 9, Alarms and solutions list.

After fixing the matter that has caused the alarm, press **Reset**, from the Active alarm page, before performing any action, Fig. 62.

Pizza archive	~	Reset		
2.Marcherita		w	Description	Event date/time
3.Sim darione		9	Old history events automatic deletion	2/04/2014 16.37.18
4-Foraccia	133	Left fridge door opened alarm	22/04/2014 16.36.17	
1100000	1118	143	Right fridge empty alarm	2/04/2014 16.36.17

Fig. 62

4.3.5.1. Active alarms description

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ID = alarm number**Description** = alarm description**Event date/time** = date and time when alarms occured

Active alarms window shows the real time errors which happened while processing. Once identified the problem an alarms Reset need to be done by pressing the key **Reset**. Alarm ID 135 "Oven door opened" will be the only one still active will be active until closing the oven door lower lock.

4.3.6 Alarms history

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izza archive	C Empty			
2-Marcharita	ID	Description	Status	Event date/time
3. Civi davione	141	Left fridge empty alarm	False	23/04/2014 7.30.15
d.Entarria	7	EVCO communication error (fridge 2)!	False	23/04/2014 4.51.27
this alarms	7	EVCO communication error (fridge 2)!	True	23/04/2014 4.51.26
and barres	7	EVCO communication error (fridge 2)!	False	22/04/2014 16.38.51
arms properties	7	EVCO communication error (fridge 2)!	True	22/04/2014 16.38.51
oduction history	9	Old history events automatic deletion	True	22/04/2014 16.37.18
idae history	143	Right fridge empty alarm	True	22/04/2014 16.36.17
ren management commands	141	Left fridge empty alarm	True	22/04/2014 16.36.17
idea management commands	133	Left fridge door opened alarm	True	22/04/2014 16.36.17
- I d aft	6	EVCO communication error (fridge 1)!	False	22/04/2014 16.36.17
2.Dinha	7	EVCO communication error (fridge 2)!	False	22/04/2014 16.36.17
outs status	2	PLC CRC-01 communication error!	False	22/04/2014 16.36.17
utputs status				
ven parameters evator parameters				
il parameters				
eneral parameters				
ternal errors				
ogram options	THE A N H	Herennes		

Fig. 63

The **Alarms history** window keeps recorded all the abnormal situations occurred during the time. If the number of them exceeds the storage capacity then they will be overwritten by the system, Fig. 63.

ID and Description tell of the nature of the problem arose.

Status = "true" is for alarm in progress; "false" is for alarm solved.

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4.3.7. Production history



Fig. 64

Event date/time = shows the production state, date and time.

Event label = event description.

Fridge ID = shows from which storage the product has been taken (left,1 or right,2).

Pizza ID = based on product's archive number.

Price = product's sale price.

The **Production history** window displays all the pizza sales data. If the number of sales exceeds the storage capacity they will be overwrite by the system, Fig. 64.

4.3.8 Fridge history

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Fig. 65

The fridge history displays the time chart of recorded temperature values from the following devices:

- Left fridge cell temperature
- Left fridge evaporator temperature probe
- Left fridge condenser temperature probe
- Right fridge cell temperature
- Right fridge evaporator temperature probe
- Right fridge evaporator temperature probe

At the chart bottom, the considered range of time is showed. (Fig. 65).

Settable options for fridge history are listed at the bottom of menu **Program options** (Fig. 66).

1.1 oft	Fridge temperatures recording True
2-Diebe	Fridge temperatures recording frequency (sec) 30
Inputs status	Maximum autonomy fridge temperatures recording (days) 30
Outruits status	Dimension of recording block displayed in fridge temperatures set 200
Oven parameters	Y minimum value on the chart of fridge recorded temperatures -32,000000
Elevator parameters	Y maximum value on the chart of fridge recorded temperatures 32,000000
Grill parameters	
General parameters	
Internal errors	
Program options	W H 4 F H Messages

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Fig. 66

4.3.9 Oven management commands

To operate manually on the handling of the furnace area mechanical parts, it is necessary to enable each single command (Fig. 67).

Pizza archive	▲ Edt	
1-Pizzart	Datum Value	
2-margnerica	General enabling False	
A Second	Elevator ascent False	-
4-Pocaccia	Elevator position (impulses) 0	
Alarma history	Elevator descent False	
Alarma properties	Hatch opening False	
Production bistory	Hatch closing False	
Eridae history	Ejector forward Palse	
Duen management compands	Ejector backward False	
Fridae management commands	Lower oven closing False	
1 deft	Lower oven opening False	
2-Rinke	Grill forward False	
Inouts status	Grill position (impulses) 3328	
Outputs status	Grill backward False	
Oven parameters	EH1/EH1-1 lamps False	
Elevator parameters	EH2 lamp False	
Grill parameters	Oven temperature (°C) 19	
General parameters		
Internal errors		
Program options	W d b b Messenes	

PIZTOP GEORG DEUTSCHLE STR: 70 73730 Esslingen. Tel. ++49 0 71537505025 E-mail: info@piztop.de Fig. 67

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Before operate manually the **General enabling** must be done. By clicking on "**Edit**", change the "**General enabling**" value from **False** to **True**. (Fig. 68). This operation must be repeated every single time it accesses the commands lists.

Pizza archive	C Edt	
2 Marcharita	Datum Value	
2-margherika 3-See Janines	General enabling Rese	
A-Escarcia	Elevator ascent False	
Active alarms	Elevator position (inpulses) 0	
Alarms history	Elevator descent Palse	
Alarms properties	General enabline	
Production history		
Fridge history		
Oven management commands		
Fridge management commands	Max length characters	
1-Left		
2-Right	Interval validity	
Inputs status	Measure ?	
Outputs status		
Oven parameters		
Elevator parameters	- OK Cancel	1
Grill parameters		BM.
General parameters		
Internal errors		
Program options	H 4 F H Messages	

Fig. 68

Required conditions for acceptance of manual commands

- The compensers can be always moved manually.

- The pushers can be moved forward only when the fridge gate is opened and the elevator is completely down. They can always be moved in the opposite direction.

- The elevator may be moved only with the pushers positioned completely back, when both fridge gates are closed, the mobile oven is totally opened and the ejector fully back.

- The pizza delivery hatch can be opened only if the ejector is completely back.

- The ejector moves forward only with elevator in "eject" position, when the mobile oven and the pizza delivery hatch are opened, the grill in back position. The ejector moves in the opposite direction when the elevator is in "eject" position and the mobile oven is opened.

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- The mobile oven moves only when the elevator is completely down (sensor on 0 position), the grill is in forward position and the ejector is completely back.

- The grill can be always moved.
- The EH1/EH1-1 and EH2 lamps can always be switched on.

Manual commands description (Fig. 67):

- **Elevator ascent** = moves up the elevator until it reaches the first free position. Repeat the operation to reach the following position.

- **Elevator position** = gives the elevator position value.

- **Elevator descent** = moves down the elevator until it reaches the first free position. repeat the operation to reach the following position.

- **Hatch opening** = opens the hatch to get the pizza out.
- **Hatch closing** = closes the hatch to avoid any kind of contact inside the machine.
- **Ejector forward** = moves the pizza box out.
- **Ejector backward** = orders the ejector repositioning.
- **Lower oven closing** = moves the lower oven in cooking position.
- **Lower oven opening** = moves the lower oven in rest position.
- **Grill forward** = moves the grill forward to load the pizza.
- **Grill position** = gives the value of the grill position.

- **Grill backward** = moves the grill backward to place pizza on the box and return at rest position.

- **EH1/EH1-1 Lamps** = n.2 upper oven lamps activation.
- **EH2 Lamp** = lower oven lamp activation.
- **Oven fan** = oven area vacuum system activation.

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- **EH1/EH1-1 upper oven lamps ignition, max power** = n.2 upper oven lamps activation at maximum power.

- **EH2 lower oven lamp ignition, max power** = lower oven lamp activation at maximum power.

- Oven warming - EH1/EH1-1 and EH2 contemporary ignition = oven lamps contemporary ignition.

- **Manual enabling** = This very critical command allows the operator to manually manage the movements of the oven mechanical parts forcing the limits imposed by the safety systems. This option can be useful to test the operation of the devices and to restore the initial conditions of positioning.

By clicking on "**Edit**" change the "**Manual enabling**" value from **False** to **True**. (Fig. 69).

Pizza archive	Edt	
1-Pizzart	Datum Value	
2-margnerica	Lower oven opening False	
d Engancia	Grill forward Palse	
4-Pocaccia	Grill position (impulses) 0	
Acuve diams	Grill backward Palse	
Alarms resources	Contraction of the second seco	
Production history	Tenuel chabling	
Eridae history		
Chara management commande	Manual enabling	
Eidea management commands	Max brook ab used or	
Light	max length characters	
2 Dista	Interval validity	
2-Rogne		
Inputs status	Measure /	
Outputs status		
Oven parameters		
Elevator parameters	OK Cancel	
Grill parameters		
General parameters		
Internal errors		

Fig. 69 **4.3.10 Left/Right Fridge management commands**

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File Edit User	
Pizza archive	Edz
2.Marcharita	Datum Value
3-Similatione	General enabling Faile
4-Focaccia	Compenser False
Active alarms	Pusher forward False
Alarms history	Pusher backward motor False
Alarms properties	Gate opening False
Production history	Gate closing False
Fridge history	Manual enabling True
Oven management commands	
Fridge management commands	
Inputs status	
Outputs status	
Oven parameters	
Elevator parameters	
Grill parameters	, in the second s
General parameters	
Internal errors	
Program options	W H 4 + H Messages

Fig. 70

Clicking on "Edit" change the "General enabling" value from False to True. Then pick "General enabling" in the dialog box and click "ok" (Fig. 70 - 71).

Doing so, the operator is allowed to manually move and test all the fridge storage mechanical parts.

Pizza archive	f Edk
- 1-Pizzart	Datum Value
2-Margherita	Canard anables
- 3-Simulazione	Company Edita
4-Focaccia	Durbas Farmand False
Active alarms	Pusher Forward Pase
Alarms history	Pusher backward motor (Pase
Alarms properties	General enabling 🔀
Production history	
Fridge history	General enabling
Oven management commands	
Fridge management commands	Max length characters
1-Left	
2-Right	Interval validity
Inputs status	Measure 7
Outputs status	
Oven parameters	
Elevator parameters	
Grill parameters	Carka
General parameters	
Internal errors	
Drogs any oniting	

Fig. 71
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Commands description (Fig. 60):

- **Compenser** = moves the storage trolley.

- **Pusher forward** = moves the pizza box from the fridge storage to the elevator plate.
- **Pusher backward** = replaces the pusher in its rest position.

- **Gate opening** = opens the storage while gate for the passage of the box from the fridge to the oven area.

- **Gate closing** = closes the storage white gate.

- **Manual enabling** = This very critical command allows the operator to manually manage the movements of the storage mechanical parts forcing the limits imposed by the safety systems. This option can be useful to test the operation of the devices and to restore the initial conditions of positioning.

By clicking on "**Edit**" change the "**Manual enabling**" value from **False** to **True**. (Fig. 72).

Pizza archive	Edit
1-Pizzart	Datas Value
- 2-Margherita	Canada analina Calea
3-Simulazione	Company Fale
4-Focaccia	Compenser Pase
Active alarms	Pusher forward Fase
Alarms history	Pusher backward motor (Palse
Alarms properties	— Manual enabling
Production history	
Fridge history	
Oven management commands	
Fridge management commands	Max length characters
1-Left	
2-Right	Interval validity
Inputs status	Mannan 2
Outputs status	Pessere
Oven parameters	
Elevator parameters	
Grill parameters	OK Carce
General narameters	
Internal errors	
a source server	

Fig. 72

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4.4 Automatic cycle positioning

Every time the fridges doors or the oven door will be opened then an automatic reset must be done as follow:

clicking on the Active alarm window, take note of any possible alarm code, press on **Reset** key then close the oven door and turn the lower key. The machine will be ready to use in a few seconds (Fig. 73 - 74).



Fig. 73

4.5 Customer windows

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Fig. 74



Fig. 75

In the homepage the customer is asked to choose the pizza flavor.

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The display area shows a main window with a welcome message and an area with 4 touch screen keys on the bottom (Fig. 75 - 76). Through the 4 keys, starting from the left, the customer may:

- choose the pizza stored in the left fridge (pizza flavor 1);

- select the desired language, pushing the flag;



- choose the pizza stored in the right fridge (pizza flavor 2).







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Fig. 77

The next window invites the customer to pay for the selected pizza. Based on the installed payment system, that would be by coins, bank notes or credit cards.



Fig. 78

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Fig. 79

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Fig. 80

The windows "Please wait, we are cooking your Pizza!", "Your Pizza is almost ready!" show the machine status and the cooking left time.

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Fig. 81

The window **"Pizza ready to eat! Enjoy!"** invites the customer to collect the pizza from the exit area.



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Fig. 82

In case of malfunction the machine warns the client displaying the string "Sorry! The machine is out of order". In addition The customer is asked to withdraw the inserted money if already put it inside; If used a credit card – The transaction will be interrupted.



Fig. 83

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Fig. 84

When the machine is in standby and ready to operate, from the top bar some remarkable values such as refrigerators temperature, oven temperature, number of pizzas kept in the storages and eventual active alarms are shown, Fig 84.

Chapter 5. Remaining risks

It is not possible to completely eliminate all the risks connected to the machine use. however, after a careful analysis, the risks have all been reduced to a minimum. In this section the possible residual risks are presented to the operator to improve his own safety and to avoid dangerous situations.



WARNING! Read carefully this paragraph so to be aware of remaining risks when using this machine.

Potential remaining risks are the following:

Risk connected to noise is negligible as the level of emitted noise is inferior to 70dB and the acoustic output is in line with the European regulation UNI EN ISO 3744.

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Risk of being crushed (generic) while taking the cooked pizza. The exit area is well protected by a rigid plastic/stainless support that could be deliberately breached by the operator hand thereby reaching the dispenser's sash closure (Fig. 85).

Risks of an electric nature (shock) in the case of deliberate and inappropriate access to electrical components.





Risks connected to the general maintenance.

Risks of burns owing to contact with the oven glasses while still hot. Anyhow all the procedures described in chapter 5 should always be followed.

Chapter 6. Maintenance

6.1 Safety measures



WARNING: Under no circumstance carry out any cleaning, maintenance, or lubrication with the machine in motion and with an electrical current. Such operations must be carried out when the machine has stopped and the console unplugged.

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It is of fundamental importance that the maintenance is carried out by qualified, authorized personnel, who are well-versed on the correct procedures relating to the machine. In particular, those operations that are of an electric nature should exclusively be carried out by electricians approved by Cierreci.

In addition, those personnel assigned to the periodic replenishment of pizza boxes, maintenance and handling must be qualified and specialized; and furthermore:

- have read this manual;
- knows the general rules concerning machinery safety;
- *is provided with protective gear such as gloves;*
- knows the food safety regulations of 'Hazard Analysis and Critical Control Point' HACCP (or equivalent legislation).

CIERRECI s.r.l. declines all liability for accidents to persons and/or to environment arising from failure to comply with these instructions.

In addition:

- During maintenance it is necessary to place signboards or other sighns near the vending indicating the machine must not be switched on.

- If the intervention is carried out by several people simultaneously, it is necessary to ensure that these can communicate effectively.

- Do not perform more actions at the same time if one of these must be done with the machine switched on.

- It is obligatory to use equipment and utensils appropriate to the intervention.

- Before initiating the maintenance, carefully remove any dirt, avoiding the use of compressed air, use instead soft, dry cloths and, if necessary, a non flammable solvent.

- Once the maintenance has been completed:

- **Check** that all connections have been restored; protective casings have been put back; screws have been well fastened and doors have been closed.
- **Check** that no tools or other foreign objects have been left above or into the machine.
- **Clean** and dry the floor, to avoid slipping near the machine.

6.2 **Preventive maintenance**

Important: <u>Good preventive maintenance lengthens the life of the machine and retains</u> <u>a high safety level for the operators.</u>

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On regular basis a visual verification should be carried out of the safety devices; in particular, to verify that the fixed guards are properly installed and that the opening of the doors prevents the machine from operating in the automatic cycle.

On regular basis visually check that the electrical equipment and cable connections are in good condition.

The "COOKING VENDING MACHINE" should to be cleaned daily. Remove any carton parts, crumbs of pizza and any remaining left in the refrigerators; cleaning the dispenser wings and the storage areas.

6.3 Lubrication

The machine does not have a gear case or other elements that need to be greased so there are not special indications about lubrication.



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Chapter 7. Pizza Box

For a correct functioning of the machine it is essential to use the pizza box supplied by Cierreci s.r.l. only, which is a high temperature carton proof and certified at the health level, Fig. 86).



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Fig. 86

Chapter 8. Spare parts

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8.1 Storage (Compenser)

TABLE N° 1



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POS.	CODE	DESCRIPTION	Q.TY
01	CMP2-34	LOWER METAL SHEET LEFT SIDE	1
02	CMP2-20	PHOTOCELL STEP COMPENSER 07H202	4
03	CMP2-06	PHOTOCELL SUPPORT LEFT SIDE	1
04	CMP2-07	PHOTOCELL SUPPORT RIGHT SIDE	1
05	CMP2-33_A	EXTERNAL FRAME LEFT SIDE	1
06	CMP2-32_A	INTERNAL FRAME LEFT SIDE	1
07	CMP2-37	REAR LAMIER RIGHT SIDE	1
08	CMP-43	RIGHT MOTOR BRACKET	1
09	CMP-45	LEFT MOTOR BRACKET	1
10	CMP-01	JOIN MOTOR	2
11	CMP2-01	MOTOR	2
12	CMP-34	SNOW M8 INOX HEAD	8
13	CMP1-08_A	LEFT HOLDER LAST PIZZA ON PLATE	1
14	CMP1-22	COMPENSER PIN	8
15	CMP2-02_A	ENGINE SHAFT SUPPORT	2
16	CMP2-08_A	CONTRAST SUPPORT BELT	2
17	CMP2-09_A	PULLER BELT PIN	2
18	CMP2-10	BELT CONTRAST	2
19	CMP2-21	COMPENSER MOTOR SHAFT	2
20	CMP-06	CONTRAST OF PULLEY T5	4
21	CMP-07	T5 PENCIL PULLEY	2
22	CMP-11	HOLDER HEAD	2
23	CMP-12	TREE PULLER	2
24	CMP-31	SINGLE BELT	2
25	CMP-32	COMPENSER FINS	168



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8.2 Upper oven

TABLE N° 2

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POS	DESIGN N.	DESCRIPTION	Q.TY
1	FFS2-33	WELDED BOTTOM BOWL	1
2	FFS2-35	PIZZA STOPPER	1
3	FFS2-36	COOLING PANEL	1
4	FFS2-39	GLASS GUIDE LAMIER	1
5	FFS2 -42	GLASS STOPPER	1
6	FFS1-08	GLASS 278X278X3 mm	1
7*			0
8*			0
9*	FFS2-110	LIGHT CE W 850 DIAMETER 110 mm	1
10*	FFS2-250	LAMP CE W 1950 DIAMETER 250 mm	1

* It could be used round lamps or straight ones

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8.3 Ejector

TABLE N° 3

POS	DESIGN N.	DESCRIPTION	Q.TY
01	ESP2-20	EJECTOR MOTOR UNIT	1
02	ESP2-01	EJECTOR	1
03	ELT2-21	MAGNETIC SENSOR	2

8.4 Lower oven

TABLE N° 4

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POS	DESIGN N.	DESCRIPTION	Q.TY
01	FRT2-01	ROTATING OVEN SUPPORT FRAME	1
02	FRT2-07-02	MOTOR FULCRUM	2
03	FRT2-03	OVEN FULCRUM SCREW	1
04	FRT2-04	LAMP Ø160	1
05	FRT2-05	LOCKING PLATE	1
06	FRT2-06	LAMP FIXING \varnothing 160	1
07	FRT1-02	FULCRUM PIVOT	1
08	FRT1-06	ROTATION LEVER	1
09	FRT1-07	ROTATION FULCRUM	2
10	FFS1-08	TEMPERED GLASS 10.9449*10.9449*0.1181 INCHES	1
11	FRT-09	GLASS RESTRAINT	1
12	FRT2-08	REFLECTIVE	1
13	FRT2-07-01	MOBILE BRACKET MOTOR	2
14	FRT2-20	SENSOR M12-4 mm	2
15	FRT-20	GEARMOTOR: LAT2A27	1
16	FRT1-22	"DU" BUSHING	2
17	FFS2-22	BIMETALLIC THERMOSTAT FROM 200°C	1
18	ELT2-11	SENSOR M8-4 mm PARTIALLY SHIELDED	1
19	FRT2-21	COMPRESSION SPRING D22910 Q	2

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20	FRT2-22	COMPRESSION SPRING D22960 Q	2

8.5 Grill

TABLE N° 5

POS	DESIGN N.	DESCRIPTION	Q.TY
01	PLT2-10	GRILL MOTOR SHAFT WITH ENCODER NPN	1
02	PLT2-02	PLATE	1
03	PLT2-01	PLATE SUPPORT	1
04	ELT2-21	MAGNETIC SENSOR	1

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8.6 Oven door

TABLE N°6

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POS	DESIGN N.			DESC	CRIF	PTION	Q.TY	
01	PFR2-06	12 INCHES F	12 INCHES PAYMENT SYSTEM					
02		CASH CODE	BA	NKNOTE	REA	DER VAT	1	
03	PFR2-23	OVEN DOOR	LC)CK			2	
04	PFR2-15	COINS INSE	RT				1	
05	PFR2-01-01	HETCH SUP	POF	RT			1	
06	PFR2-01-04	HETCH MOT	OR	SUPPOR	RT.		1	
07	PFR2-01-03	HETCH SENS	ETCH SENSOR SUPPORT					
08	PFR2-01-05	MAGNETIC S	SUP	PORT		10	1	
09	CRC-DE-94	PROXIMITY	SEI	NSOR	۲		2	
10	PFR1-29	NAYAX NOT	ES	MASK			1	
11		MONITOR 1	2 II	VCHES	0		1	
12	PFR2-49	FRONT CHA	NGI	ER		1	1	
13	PFR-12	HETCH MOT	OR				1	
14	PFR1-05	DOOR WITH		DOLER	9		1	
15	PFR2-01-02	HETCH STO	PPE	R		0	2	
16								
17	PFR2-28	PIZZA BOX F	Ю	TOCELL	ULAF	R BRACKET	1	
18	PFR1-51	MICROGUID	E				2	
19	CMP2-19	DIRECT CAB	DIRECT CABLE REFLECTIVE PHOTOCELL					
20	PFR2-14	COINS TUBE	COINS TUBES					
21	,	CHANGER M	ΕI			~	1	
22	PFR2-51	RETURNED	BO>	(1	
23	PFR2-21	DORR MAGN	IET	IC SENS	OR		1	
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8.7 Pushers

TABLE N° 7

POS.	DESIGN N.	DESCRIPTION	Q.TY
01	SPT2-10	RIGHT LOADING CARRIAGE SHAFT	1
02	SPT2-10	LEFT LOADING CARRIAGE SHAFT	1
03	SPT2-01	PUSHER	2
04	SPT2-06	SUPPORT JOINT MOTORIZATION	4
05	ELT2-21	MAGNETIC SENSOR	2

8.8 Elevator

TABLE N° 8

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POS	DESIGN N.	DESCRIPTION	Q.TY
01	ELT2-20	10 ELEVATOR TREE	1
02	ELT2-20R	ELEVATOR TREE WITH ENCODER MOTOR	1
03	ELT2-21	MAGNETIC RESISTANT SENSOR MK5117	2
04	ELT2-01_B	ELEVATOR PLATE	1
05		MOTOR	1
06	CMP-01	JOIN MOTOR	1
07	ELT2-02_B	SPECIAL ELEVATOR MOTOR STAGE 2	1

8.9 Fridge unit

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POS	DESIGN N.	DESCRIPTION	Q.TY
01	GFG2-30	COMPRESSOR 110-120/230Volt AC 50/60Hz	2
02	GFG2-31	CONDENSER FAN 230V AC	2
03	GFG2-32	EVAPORATION FAN 24DC	4
04	GFG2-33	ELECTROVALVE	2
05	GFG2-34	EVCO CONTROL UNIT	2
06	GFG2-35	EVAPORATOR	2
07	GFG2-36	CONDENSER	2
08	GFG2-GR.RI.	COOLING UNIT (REFRIGERATING UNIT)	2
09	GFG2- 43	SUCTION FILTER (with grid)	1
10	TFR2-20	BACK DOOR	1
11	TFR2-21	OVEN BACK CARTER	1
12	GFG2-03	LOW BACK CARTER	2
13	GFG2-04	HIGH BACK CARTER	2
14	GFG2-38	RIGHT FRIDGE	1
15	GFG2-39	LEFT FRIDGE	1
16	GFG2-40	RIGHT FRIDGE DOOR	1
17	GFG2-41	LEFT FRIDGE DOOR	1
18	CRL2-01	TROLLEY	1
19A	GFG2- 43	SUCTION FILTER (with grid)	1
19B	GFG2-44	SUCTION FAN	1
19C	TFR2-06	ANTI-INTRUSION GRILL 120	1
20	GFG2-CR-R15	STARTING CONDENSER	2
21	GFG2-44	EXTRACTOR FANS	



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8.10 Gates

TABLE N° 10



POS	DESIGN N.	DESCRIPTION	Q.TY
01	CNL2-04	GATE (1 FOR FRIDGE)	1

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02	CNL2-02	FULCRUM ROTATION GATE	2
03	CNL2-05	FULCRUM DISTANCE	2
04	CNL2-11	ROTATE TAPE CANCEL	1
05	CMP-34	HEAD IN SNODO JAM 8 INOX	2
06	CMP-01	JOIN MOTOR	1
07	CNL2-10	MOTOR CANCEL GM 0.5A 1/540	1

Chapter 9. Alarms and solutions list

n°	Alarm	Description	Checks to be made
001	Error opening serial communicatio n port for dialog with PLC CRC-01	Alarm due to the opening of the serial communication port for the dialog with the PLC	The program was not able to open the COM communication port dedicated to the dialog with PLC. Unreal, broken, used by another program port. Try to use another port in the program option window, if available.
002	Communicatio n error with PLC CRC-01	Alarm due to an error of communication with the PLC	The COM port is usable, but the PLC did not answer to a serial questioning. It may be a transitory problem caused by disturbances, or a permanent problem caused by a defective hardware (broken PLC , compromised serial connections or similar).

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003	Data mapping PLC CRC-01 not in use	Alarm due to the PLC data mapping not in use	The PLC is not properly configured. Contact support.
004	Data mapping PLC CRC-01 version not correct	Alarm due to the PLC data mapping not correct	The PLC program version is not compatible with the PizzaCookingStudio version. Contact support.
005	Error opening serial communicatio n port for dialog with EVCO.	Alarm due to the opening of the serial communication port for the dialog with the EVCO central unit	The program was not able to open the COM communication port dedicated to the dialog with one of the two fridge EVCO central unit. Unreal, broken, used by another program port. Try to use another port in the program option window, when available.

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006	Communicatio n error with EVCO fridge 1	Alarm due to an error of communication with EVCO central unit	The COM port is usable, but fridge 1 EVCO central unit did not answer to a serial questioning. It may be a transitory problem caused by disturbances, or a permanent problem caused by a defective hardware (broken EVCO central unit, compromised serial connection or similar).
007	Communicatio n error with EVCO fridge 2	Alarm due to an error of communication with EVCO central unit	The COM port is usable, but the fridge 2 EVCO central unit did not answer to a serial questioning. It may be a transitory problem caused by disturbances, or a permanent problem caused by a defective hardware (broken EVCO central unit, compromised serial connection or similar).
008	Running out of disk space available	Alarm due to the running out of disk space available	The hard disk space is lower the minimum threshold, set through the program options. Clear the archive and modify its autonomy.

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009	Automatic removal of outdated historical events	Alarm due to the presence of outdated historical events and the consequent automa- tic removal	Historical events would be removed. To avoid the alarm clear the archive periodically.
010	Overflow counter total quantity of products delivered	Alarm due to the reaching of maximum quantity of delivered products	The counter reached its maximum threshold. Reduce the counter manually.
020	Opening serial communicatio n port error	Error in opening serial communication port to which the modem is connected	Exit PizzaCookingStudio and verify that other applications didn't open the involved serial port (in that case close those applications and restart PizzaCookingStudio). Alternatively, restart the PC windows or try to use another serial pc port. Ultimately, contact technical support.

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021	Modem communicatio n error	PizzaCookingStudio application can't communicate correctly with modem	Verify in program options of PizzaCookingStudio which is the serial port used (usually COM4) and verify the cable connection to serial port of pc and modem. Eventually, restart PC and, contemporarily, restart then modem unplugging and plugging again its power cable. Ultimately, try to use another serial PC port or contact technical support.
22	reached the minimum stock of pizzas in the fridge of left	The system warns just that the minimum number of pizzas present in the refrigerator has been reached.	Do refill the left storage cell; click on active alarms option; reset the machine.
23	reached the minimum stock of pizzas in the fridge of right	The system warns just that the minimum number of pizzas present in the refrigerator has been reached.	Do refill the right storage cell; click on active alarms option; reset the machine.

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050	Error MDB: coins changer does not communicate to the system	The coins changer does not comunicate to the PC.	Check electrical connections between PC and coins changer. Check changer enableing on software "Pizza cooking studio" / Program options.
051	MDB alarm: no banknote reader communicatio n	Alarm due to lack of communication between PC and notes reader.	Check electrical connections between PC and notes reader. Check notes reader enabling on "Pizza cooking studio" software / program options.
052	MDB alarm cashless device communicatio n	Alarm due to lack of communication between PC and cashless device	Check the electrical connection between PC and cashless device. Check cashless device enabling on software "Pizza cooking studio" – program options.
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053	MDB alarm unsupported decimal places	Alarm due to non correct setting of decimal places	Check the correct setting of the number of decimal places according to the actual currency on the software "Pizza cooking studio" - program options.
054	MDB alarm coin acceptor changer no credit	Alarm due to the n acceptor changer	Check the presence of enough credit into the coin acceptor changer, to enable the correct return of change. the tubes must be filled not less than half full.
055	MDB alarm coin acceptor changer defective tube sensor	Alarm due to the non correct functioning of one of the tube sensor	Check which sensor of which tube do not functions correctly in the coin acceptor changer.

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056	MDB alarm coin acceptor changer acceptor unplugged	Alarm due to the coin acceptor changer power failure	Check electrical connection between PC and coin acceptor changer.
057	MDB alarm coin acceptor changer tube jam	Alarm due to the lack of functioning of one of the coin acceptor changer tubes	Check the presence of foreign bodies inside the coin acceptor changer tubes or any other mechanical cause of block.
058	MDB alarm coin acceptor changer rom checksum error	Alarm due to the incorrect operations storage of the coin acceptor changer	By using the changer device manual check any storage error in the coin acceptor changer settings.

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059	MDB alarm coin acceptor changer coin routing error	Alarm due to incorrect coin routing in the coin acceptor changer	Check any routing error in the coin acceptor changer and remove any blocking coin.
060	MDB alarm coin acceptor changer coin jam	Alarm due to a coin block in the coin acceptor changer	Check the coin block in the coin acceptor changer tubes due to a coins routing error.
061	MDB alarm coin acceptor changer possible credited coin removal	Alarm due to incorrect credit removal from coin acceptor changer	Check any possible cash short in the coin acceptor changer settings.

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062	MDB alarm coin acceptor changer slug	Alarm due to coin acceptor changer slug	Check any possible obstacle cause in the coin acceptor changer settings.
063	MDB alarm coin acceptor changer tube full	Alarm due to coin acceptor changer tube fillings over the maximum threshold	Remove some coins from the full pipes. The tubes should not be full and nevertheless they must be filled not less than half.
064	MDB alarm coin acceptor changer tube empty	Alarm due to the emptying of one of the tube over the minimum threshold	Refill the tube to the minimum threshold. The pipes should not be full and nevertheless they must be filled not less than half.

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065	MDB alarm bill validator defective motor	Alarm due to a lack in the bill validator motor	Check electrical anomalies concerning bill validator motor.
066	MDB alarm bill validator sensor problem	Alarm due to the incorrect functioning of one bill validator sensor	Check which bill validator sensor do not work properly.
067	MDB alarm bill validator rom checksum error	Alarm due to the incorrect operations storage of the bill validator	Check any storage error in the bill validator settings.

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068	MDB alarm bill validator validator jammed	Alarm due to the lack of functioning of bill validator	Check the presence foreign bodies inside the bill validator or bill validator position.
069	MDB alarm bill validator bill removed	Alarm due to the incorrect credit removal from bill validator	Check the correct position of the bill validator.
070	MDB alarm bill validator cash box out of position	Alarm due to incorrect position of bill validator cash box	Check the correct position of the bill validator cash box.

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071	MDB alarm bill validator unit disabled	Alarm due to bill validator power failure	Check electrical connection between PC and bill validator.
072	MDB alarm bill validator invalid escrow request	Alarm due to non-recognition of the inserted banknote	Check banknotes receiving and recognition setting.
073	MDB alarm bill validator possible credited bill removal	Alarm due to the incorrect credit removal from bill validator	Check the possible credit removal in the bill validator settings.

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074	MDB alarm bill validator stacker is full	Alarm due to bill validator filling over the maximum threshold	Check the impossibility to accept further banknotes by the bill validator stacker.
075	MDB alarm cashless device malfunction error payment media error	Alarm due to cashless device internal error	Contact cashless device technical assistance to check parameters.
076	MDB alarm cashless device malfunction error invalid payment media	Alarm due to cashless device internal error	Contact cashless device technical assistance to check parameters.

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077	MDB alarm cashless device malfunction error tamper error	Alarm due to cashless device internal error	Contact cashless device technical assistance and communicate credit tampering from the cashless device.
078	MDB alarm cashless device malfunction error manufacturer defined error	Alarm due to cashless device manufacturer error	Contact cashless device technical assistance and communicate the error.
079	MDB alarm cashless device malfunction error communicatio ns error	Alarm due to cashless device internal error	Check the electrical connection between PC and cashless device. Check cashless device enabling on software "Pizza cooking studio" – program options.

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080	MDB alarm cashless device malfunction error reader requires service	Alarm due to cashless device internal error	Contact cashless device technical assistance and communicate the error.
081	MDB alarm cashless device malfunction error unassigned	Alarm due to cashless device internal error	Contact cashless device technical assistance and communicate the error.
082	MDB alarm cashless device malfunction error reader failure	Alarm due to cashless device internal error	Contact cashless device technical assistance and communicate the error. Remove any foreign bodies from the cashless device.

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083	MDB alarm cashless device malfunction error payment media jammed	Alarm due to cashless device internal error	Contact cashless device technical assistance and communicate the error.
084	MDB alarm cashless device malfunction error refund error internal reader credit lost	Alarm due to cashless device internal error	Contact cashless device technical assistance and communicate the error.
085	MDB alarm cashless device command out of sequence	Alarm due to cashless device internal error	Contact cashless device technical assistance and communicate the error.

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101	Al. photocell left storage compartment step motor M1S	Alarm due to lack of the step that should implement the left storage compartment.	Electrically check connection of left M1 motor of left fridge. Mechanically check the motor is moving correctly. Check the correct position of the photocell that should activate when it has in front of itself the compenser fin and it should deactivate whilst the compartment makes a step.
102	Al. photocell left compartment box	Alarm due to lack of reading the presence of the box on the left pusher.	The alarm is activated when the compenser performed three steps down, without the photocell reads the presence of a box on the pusher top surface. Check the pizza presence inside the fridge. Check the correct positioning of photocell of B5 position (entrance X233) that has to activate when it detects a box and turns off when free.
103	Al. left compartment blockage	Alarm due to lack of release of the pizza box on the left pusher after its forward movement.	Check the correct position of the photocell of B5 position (entrance X233) that has to activate when it read a box in front of it and deactivate when free.
104	Al. photocell right storage compartment step M2S	Alarm due to lack of the step that should implement the right storage compenser.	Electrically check connection of left M2 motor of right fridge. Mechanically check the motor is moving correctly. Check the correct position of the photocell that should activate when it has in front of itself the compenser fin and it should deactivate whilst the compartment makes a step.

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105	Al. photocell right compartment box	Alarm due to lack of reading the presence of the box on the right pusher.	The alarm is activated when the compenser performed three steps down, without the photocell reads the presence of a box on the pusher top surface. Check the pizza presence inside the fridge. Check the correct positioning of photocell of B6 position (entrance X237) that has to activate when it detects a box and turns off when free.
106	Al. right compartment blockage	Alarm due to lack of liberation of the box presence on the right pusher after the pusher forward movement.	Check the correct position of the photocell of B6 position (entrance X237) that has to activate when it read a box in front of it and deactivate when free.
107	Al. forward left pusher photocell	Alarm due to failure of the limit switch forward left pusher sensor to be reached within the maximum set time.	Electrically check connection of M3 motor and activation of relay K7 and K1 on AP2. Mechanically check the motor is moving correctly. Check the correct functioning of the limit switch forward SQ7 (entrance X234).
108	Al. backward left pusher photocell	Alarm due to failure of the limit switch backward left pusher sensor to be reached within the maximum set time.	Electrically check connection of M3 motor and activation of relay K7 and K1 on AP2. Mechanically check the motor is moving correctly. Check the correct functioning of the limit switch forward SQ8 (entrance X235).
109	Al. forward right pusher photocell	Alarm due to failure of the limit switch forward right pusher sensor to be reached within the maximum set time.	Electrically check connection of M4 motor and activation of relay K7, K6 and K1 on AP3. Mechanically check the motor is moving correctly. Check the correct functioning of the limit switch forward SQ10 (entrance X238).

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110	Al. backward right pusher photocell	Alarm due to failure of the limit switch backward right pusher sensor to be reached within the maximum set time.	Electrically check connection of M4 motor and activation of relay K7, K6 and K1 on AP3. Mechanically check the motor is moving correctly. Check the correct functioning of the limit switch forward SQ11 (entrance X239).
111	Al. "zero" elevator limit switch	Alarm due to failure of the limit switch "zero" of the elevator within the maximum set time.	Electrically check connection of M5 motor and activation of relay K7 and K2 on AP2. Mechanically check the motor is moving correctly. Check the correct functioning of the limit switch "zero" SQ13 (entrance X2).
112	Al. elevator encoder	Alarm due to the failure of reading the elevator encoder functioning within the maximum set time	Electrically check connection of M5 motor and activation of relay K7 and K2 on AP2. Mechanically check the motor is moving correctly. Check the correct functioning of phase A (entrance X0) and of the phase B (entrance X1) of the encoder.
113	Al. not positioned elevator	Alarm due to failure of the elevator to reach a predetermined position.	Check the presence of obstacles. Check correct working of all components of elevator too.
114	Al. forward ejector photocell	Alarm due to failure of the limit switch forward ejector sensor to be reached within the maximum set time	Electrically check connection of M6 motor and activation of relay K7, K6, and K2 on AP3. Mechanically check the motor is moving correctly. Check the correct functioning of limit switch forward SQ14 (entrance X3).

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115	Al. backward ejector photocell	Alarm due to failure of the limit switch backward ejector sensor to be reached within the maximum set time	Electrically check connection of M4 motor and activation of relay K7 and K2 on AP3. Mechanically check the motor is moving correctly. Check the correct functioning of limit switch backward SQ15 (entrance X4).
116	Al. closed hatch photocell	Alarm due to failure of the limit switch closed hatch sensor to be reached within the maximum set time.	Electrically check connection of M7 motor and activation of relay K7 and K3 on AP2. Mechanically check the motor is moving correctly. Check the correct functioning of limit switch closed SQ16 (entrance X5).
117	Al. open hatch photocell	Alarm due to failure of the limit switch open hatch sensor to be reached within the maximum set time.	Electrically check connection of M7 motor and activation of relay K7, K6, and K3 on AP2. Mechanically check the motor is moving correctly. Check the correct functioning of limit switch backward SQ17 (entrance X6).
118	Al. photocell low mobile oven closed	Alarm due to failure of the low mobile oven closed sensor to be reached within the maximum set time	Electrically check connection of M8 motor and activation of relay K7, K6, and K3 on AP2. Mechanically check the motor is moving correctly. Check the correct functioning of limit switch closed sensor SQ18 (entrance X7).
119	Al. photocell high mobile oven opened	Alarm due to failure of the high mobile oven opened sensor to be reached within the maximum set time	Electrically check connection of M8 motor and activation of relay K7 and K4 on AP2. Mechanically check the motor is moving correctly. Check the correct functioning of limit switch backward sensor SQ19 (entrance X8).

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120	Al. "zero" grill limit switch	Alarm due to failure of the limit switch "zero" of the grill within the maximum set time.	Electrically check connection of M9 motor and activation of relay K7 and K3 on AP3. Mechanically check the motor is moving correctly. Check the correct functioning of the limit switch "zero" SQ21 (entrance X9).
121	Al. grill encoder	Alarm due to the failure of reading the grill encoder functioning within the maximum set time	Electrically check connection of M9 motor and activation of relay K7 and K3 on AP2. Mechanically check the motor is moving correctly. Check the correct functioning of phase A (entrance X10) and of the phase B (entrance X11) of the encoder.
122	Al. not positioned grill	Alarm due to failure of the grill to reach a predetermined position.	Check the presence of obstacles. Check correct working of all components of grill too.
123	Al. Left gate closed Limit switch	Alarm due to failure of the left gate closed limit switch to be reached within the maximum set time	Electrically check connection of M10 motor and activation of relay K7 and K4 on AP3. Mechanically check the motor is moving correctly. Check the correct functioning of closed limit switch SQ22 (entrance X249).
124	Al. Left gate opened Limit switch	Alarm due to failure of the left gate opened limit switch to be reached within the maximum set time	Electrically check connection of M10 motor and activation of relay K7, K6 and K4 on AP3. Mechanically check the motor is moving correctly. Check the correct functioning of backward limit switch SQ23 (entrance X250).
125	Al. right gate closed Limit switch	Alarm due to failure of the right gate closed limit switch to be reached within the maximum set time	Electrically check connection of M11 motor and activation of relay K7 and K5 on AP3. Mechanically check the motor is moving correctly. Check the correct

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			functioning of closed limit switch SQ24 (entrance X251).
126	Al. right gate opened Limit switch	Alarm due to failure of the right gate opened limit switch to be reached within the maximum set time	Electrically check connection of M11 motor and activation of relay K7, K6 and K5 on AP3. Mechanically check the motor is moving correctly. Check the correct functioning of backward limit switch SQ25 (entrance X252).
127	Al. Upper oven lamp	Alarm due to an anomaly in the EH1 o EH1-1 lamp located in the upper oven	Electrically check the conductivity of the lamps, activation of KMG and power supply on QF3. Subsequently carry out a function check using manual controls.
128	Al. Lower oven lamp	Alarm due to an anomaly in the EH2 lamp located in the lower oven	Electrically check the conductivity of the lamps, activation of KMG and power supply on QF3. Subsequently carry out a function check using manual controls.
129	Al. Oven limit controls	Alarm due to the intervention of the ST1 or ST2 limit control for the exceeding of the maximum set oven temperature	Electrically check the conductivity of the upper oven limit control ST1 and of the lower oven limit control ST2 and activationof KA4 (entrance X243).
130	Al. thermocouple T1 oven temperature	Alarm due to lack of reading the temperature variation whilst oven functioning	Electrically check the conductivity of the thermocouple on clamps 1- J15 and 2-J16 on AP1. Check the integrity of the thermocouple inside the oven. Check the position of the thermocouple.

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131	Al. Maximum oven temperature	Alarm due to the oven temperature exceeding threshold of the set oven temperature	Check the integrity of the thermo- couple inside the oven. Check the position of the thermo-couple.
132	Al. Lack of power 230Vac	Alarm due to lack of power supply 230Vac to the machine	Check presence of power supply on QF1 and activation of KA5 (entrance X245).
133	Al. Left fridge door open	Alarm due to the opening of the left fridge door	Check the correct functioning of limit switch SQ1SX and activation of KA1 (entrance X240).
134	Al. Right fridge door open	Alarm due to the opening of the right fridge door	Check the correct functioning of limit switch SQ1DX and activation of KA3 (entrance X242).
135	Al. oven door open	Alarm due to the opening of the oven door	Check the correct functioning of limit switch SQ1CX and activation of KA2 (entrance X241).
136	Al. crushing upper oven	Alarm due to the intervention of limit switch for the oven anti-crushing	Check the elevator position and the correct functioning of limit switch SQ12 (entrance X248).

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141	Al. Left fridge empty	Alarm due to depletion of left fridge products	Refill LEFT fridge as soon as possible and update PizzaCookingstudio load storage window.
142	Al. left fridge expired pizzas	Alarm due to exceeding the set expiry date of the left fridge product	Take the expired product out of the left fridge as soon as possible.
143	Al. Right fridge empty	Alarm due to depletion of right fridge products	Refill RIGHT fridge as soon as possible and update PizzaCookingstudio load storage window.
144	Al. right fridge expired pizzas	Alarm due to exceeding the set expiry date of the right fridge product	Take the expired product out of the right fridge as soon as possible.
145	Al. Machine out of order	General alarm due to the impossibility of suppling the product	Check the current alarms Being a generic alarm it necessary to have more details to identify the causes of the malfunction.
146	Al. Product exit	Alarm due to the presence of a product in the oven when switching the machine on	Make sure that transit points and the oven are rid of any obstacle like a residues of pizza or boxes.
147	Al. timeout lack of power 230Vac	Alarm due to expiring timeout on lack of power supply 230Vac	Check presence of power supply on QF1 and activation of KA5 (entrance X245).

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148	Alarm fridge of left side: compromised products inside	Alarm due to the overrun of the storage time for the individual pizzas loaded in the left side refrigerator / or the left side refrigerator defect in relation to regulations in regards of maintaining the temperature prescribed by the local law	Verify that the pizzas loaded in the refrigerator are stored for a time not longer than the 5/6 days as the Law; if these are older then replace them and upgrade PIzzaCookingStudio software. Check that the refrigerator temperature is in accordance with the temperature as the local low; contact technical assistance in case the refrigerant system is compromised.
149	Alarm fridge of right side: compromised products inside	Alarm due to the overrun of the storage time for the individual pizzas loaded in the right side refrigerator / or the right side refrigerator defect in relation to regulations in regards of maintaining the temperature prescribed by the local law	Verify that the pizzas loaded in the refrigerator are stored for a time not longer than the 5/6 days as the Law; if these are older then replace them and upgrade PIzzaCookingStudio software. Check that the refrigerator temperature is in accordance with the temperature as the local low; contact technical assistance in case the refrigerant system is compromised.
150	"Escrow" error. Command timeout alarm For MDB device "Coin Acceptor / Changer"	Alarm regarding a malfunction of the coins changer motor lever in the part that returns money Notification alarm indicating	Check that there are no objects inside the device that prevent the motor from performing the correct and complete mechanical maneuver for returning the money. Check in general that the changer is not broken. Check that the device is properly set up by software.
151	box absent from the elevator plate	the absence of the pizza box over the elevator when this is in the standby position during the cooking of pizza.	Make sure that the pizza box is not stuck between the oven mobile parts or stuck to the cooking grid.

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152	Alarm ejector - limit forward / backward	Alarm due to failure to complete the ejector movement	Mechanically check that there are no objects that block it from moving. check the sensors correct position. Controlling in Program Options that the delay times given are not too short.
153	Alarm hatch - limit closed / opened	Alarm due to failure to complete the hatch movement	Mechanically check that there are no objects that block it from moving. check the sensors correct position. Controlling in Program Options that the delay times given are not too short. Controlling the side guides are not broken or bent.
154	Alarm lower hatch - limit closed / opened	Alarm due to failure of the lower oven proper movement	Check the sensors correct position.
155	Alarm left pusher - limit forward / backward	Alarm due to failure to complete the proper pusher movement	Mechanically check that there are no objects that block it from moving. check the sensors correct position. Controlling in Program Options that the delay times given are not too short.
156	Alarm right pusher - limit forward / backward	Alarm due to failure to complete the proper pusher movement	Mechanically check that there are no objects that block it from moving. check the sensors correct position. Controlling in Program Options that the delay times given are not too short.

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157	Alarm left gate - limit closed / opened	Alarm due to failure to complete the left gate movement	Mechanically check that there are no objects that block it from moving.
158	Alarm right gate - limit closed / opened	Alarm due to failure to complete the right gate movement	Mechanically check that there are no objects that block it from moving.
159	Al. photocell left storage compartment step motor M1D	Alarm due to lack of the step that should implement the left storage compartment	Electrically check connection of right M1 motor of left fridge. Mechanically check the motor is moving correctly. Check the correct position of the photocell that should activate when it has in front of itself the compenser fin and it should deactivate whilst the compartment makes a step.
160	Al. photocell right storage compartment step M2D	Alarm due to lack of the step that should implement the right storage compenser	Electrically check connection of right M2 motor of right fridge. Mechanically check the motor is moving correctly. Check the correct position of the photocell that should activate when it has in front of itself the compenser fin and it should deactivate whilst the compartment makes a step.
161	Alarm of lower oven crushing	Alarm due to the failure to achieve the correct position by the lower oven	make sure that objects do not prevent the device from reaching the correct position. Check for proper operation of the start and end of stroke sensors.
162	Alarm of elevator limit switch zero/stop position not reached	Alarm due to failure to achieve the zero position by the elevator	make sure that objects do not prevent the device from reaching the correct position. Check for for the proper setting in PizzaCookignstudio.

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200	AL. left fridge PLC	Alarm due to lack of communication between PLC and EVCO control unit	Check electrical connection between PLC and EVCO control unit.
300	Al. right fridge PLC	Alarm due to lack of communication between PLC and EVCO control unit	Check electrical connection between PLC and EVCO control unit.
201	Al. left fridge exceeding of minimum threshold	Alarm of timed control about achievement of target temperature set	Warning alarm about a possible critical state to be checked.
301	Al. right fridge exceeding of minimum threshold	Alarm of timed control about achievement of target temperature set	Warning alarm about a possible critical state to be checked.
202	Al. left fridge exceeding of maximum threshold	Alarm of timed control about achievement of target temperature set	Warning alarm about a possible critical state to be checked.
302	Al. right fridge exceeding of maximum threshold	Alarm of timed control about achievement of target temperature set	Warning alarm about a possible critical state to be checked.
203	Al. left fridge exceeding of maximum condenser threshold	Alarm due to exceeding of maximum condenser temperature threshold	Check that condenser sensor is attached to output pipe and check cleaning and ventilation of condenser *.
303	Al. right fridge exceeding of maximum condenser threshold	Alarm due to exceeding of maximum condenser temperature threshold	Check that condenser sensor is attached to output pipe and check cleaning and ventilation of condenser *.

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204	Al. left fridge defrost ending for maximum time	Alarm due to the reaching of the maximum temperature for defrosting	Not binding error for machine functioning. Reset alarms.
304	Al. right fridge defrost ending for maximum time	Alarm due to the reaching of the maximum temperature for defrosting	Not binding error for machine functioning. Reset alarms.
205	Al. left fridge opened door	Alarm due to missing permission to close left fridge door	Check that mechanical door closing works properly and check stroke limit of magnetic sensor.
305	Al. right fridge opened door	Alarm due to missing permission to close right fridge door	Check that mechanical door closing works properly and check stroke limit of magnetic sensor.
206	Al. left fridge multifunction entrance	Alarm due to parameter settings loss in EVCO central unit	Check the status of buffer battery of EVCO central unit.
306	Al. right fridge multifunction entrance	Alarm due to parameter settings loss in EVCO central unit	Check the status of buffer battery of EVCO central unit.
207	Al. left fridge blocked tool	Alarm due to a block of the EVCO central unit	Power cycle the EVCO central unit.
307	Al. right fridge blocked tool	Alarm due to a block of the EVCO central unit	Power cycle the EVCO central unit.
208	Al. left fridge RTC Error	Alarm due to the low battery buffer	Replace the buffer battery.

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308	Al. right fridge RTC Error	Alarm due to the low battery buffer	Replace the buffer battery.
209	Al. left fridge broken cell probe	Alarm due to a broken of the left fridge cell probe	Check the probe electrical connection on the EVCO central unit or proceed with the probe replacement.
309	Al. right fridge broken cell probe	Alarm due to a failure of the right fridge cell probe	Check the probe electrical connection on the EVCO central unit or proceed with the probe replacement.
210	Al. left fridge broken steamer probe	Alarm due to a failure of the left fridge steamer probe	Check the probe electrical connection on the EVCO central unit or proceed with the probe replacement.
310	Al. right fridge broken steamer probe	Alarm due to a failure of the right fridge steamer probe	Check the probe electrical connection on the EVCO central unit or proceed with the probe replacement.
211	Al. left fridge broken condenser probe	Alarm due to a failure of the left condenser probe	Check the probe electrical connection on the EVCO central unit or proceed with the probe replacement.
311	Al. right fridge broken condenser probe	Alarm due to a failure of the right condenser probe	Check the probe electrical connection on the EVCO central unit or proceed with the probe replacement.
212	Al. left fridge minimum temperature	Alarm due to exceeding of minimum left fridge temperature threshold	Check correct working of all components including compressor relay *.

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312	Al. right fridge minimum temperature	Alarm due to exceeding of minimum right fridge temperature threshold	Check correct working of all components including compressor relay *.
213	Al. left fridge maximum temperature	Alarm due to exceeding of maximum left fridge threshold	Check cleaning of left condenser and correct working of all components. Check gas pressure too *.
313	Al. right fridge maximum temperature	Alarm due to exceeding of maximum right fridge threshold	Check cleaning of right condenser and correct working of all components. Check gas pressure too *.
214	Al. left fridge blocked compressor	Alarm due to a block of the left fridge compressor	Check the electrical connections to the compressor or the high temperature reached.
314	Al. right fridge blocked compressor	Alarm due to a block of the right fridge compressor	Check the electrical connections to the compressor or the high temperature reached.
215	Al. left fridge overheated condensor	Alarm due to exceeding of maximum condenser temperature threshold	Check that condenser sensor is attached to output pipe and check cleaning and ventilation of condenser *.
315	Al. right fridge overheated condensor	Alarm due to exceeding of maximum condenser temperature threshold	Check that condenser sensor is attached to output pipe and check cleaning and ventilation of condenser *.
216	Al. left fridge service required	Contact EVCO assistance	Contact EVCO assistance.
316	Al. right fridge service required	Contact EVCO assistance	Contact EVCO assistance.

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217	Al. left fridge power failure	<u>Alarm due to lack of network</u> <u>voltage</u>	Check network voltage presence or change the power supply socket.
317	Al. right fridge power failure	<u>Alarm due to lack of network</u> <u>voltage</u>	<u>Check network voltage presence</u> or change the power supply <u>socket.</u>
218	Al. left fridge	Alarm due to the exceeding	Check presence of further storage
	broken HACCP	of maximum storage capacity	capacity of the HACCP data in the
	storage	of the HACCP data	EVCO central unit.
318	Al. right fridge	Alarm due to the exceeding	Check presence of further storage
	broken HACCP	of maximum storage capacity	capacity of the HACCP data in the
	storage	of the HACCP data	EVCO central unit.

Chapter 10. Default software settings for alarms properties

Alarm	Alarm number	Masked or not masked	Fridge Out of Order	Damaged product
Left compenser step photocell alarm	101	Not masked	True	False
Left compenser box presence photocell alarm	102	Not masked	True	False
Left compenser obstruction alarm	103	Not masked	True	False

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Right compenser step photocell alarm	104	Not masked	True	False
Right compenser box presence photocell alarm	105	Not masked	True	False
Right compenser obstruction alarm	106	Not masked	True	False
Left pusher forward limit switch alarm	107	Not masked	True	False
Left pusher backward limit switch alarm	108	Not masked	True	False
Right pusher forward limit switch alarm	109	Not masked	True	False
Right pusher backward limit switch alarm	110	Not masked	True	False
Elevator "zero" limit-switch alarm	111	Not masked		
Elevator encoder alarm	112	Not masked		
Elevator out of position alarm	113	Not masked		
Ejector forward limit-switch alarm	114	Not masked		
Ejector backward limit-switch alarm	115	Not masked		
Hatch closed limit-switch alarm	116	Not masked		
Hatch open limit-switch alarm	117	Not masked		
Lower oven closed limit-switch alarm	118	Not masked		
Lower oven open limit-switch alarm	119	Not masked		
Grill "zero" limit-switch alarm	120	Not masked		
Grill encoder alarm	121	Not masked		
Grill out of position alarm	122	Not masked		
Left gate closed limit-switch alarm	123	Not masked	True	False
Left gate opened limit-switch alarm	124	Not masked	True	False
Right gate closed limit-switch alarm	125	Not masked	True	False
Right gate opened limit-switch alarm	126	Not masked	True	False
Upper oven lamps alarm	127	Not masked		
Lower oven lamps alarm	128	Not		

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		masked		
Oven safety thermostats alarm	129	Not masked		
T1 Thermocouple oven temperature alarm	130	Not masked		
Max oven temperature alarm	131	Not masked		
Main power supply (230 Vac) absence alarm	132	Not masked		
Left fridge door opened alarm	133	Not masked	True	False
Right fridge door opened alarm	134	Not masked	True	False
Oven door opened alarm	135	Not masked		
Alarm safety elevator or lower oven	136	Not masked		
Left fridge empty alarm	141	Not masked	True	True
Left fridge expired products alarm	142	Not masked	True	True
Right fridge empty alarm	143	Not masked	True	True
Right fridge expired products alarm	144	Not masked	True	True
Machine out of order alarm	145	Not masked		
Pizza evacuation alarm	146	Not masked		
Main power supply (230 Vac) timeout alarm	147	Not masked		
damaged products on left fridge alarm	148	Not masked	True	
damaged products on right fridge alarm	149	Not masked	True	
timeout "Escrow" control alarm for MDB "Coin Acceptor/Changer" device	150	Masked		
Alarm no boxes on forklift	151	Masked		
Alarm – limit switch forward back - ejecter	152	Not Masked	True	Falso
Alarm – limit switch open close – hetch	153	Not Masked	True	Falso
Alarm – limit switch open close – lower oven	154	Not Masked	True	Falso
Alarm – limit switch forward back – pusher of left	155	Not Masked	True	Falso

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Alarm – limit switch forward back – pusher of right	156	Not Masked	True	Falso
Alarm – limit switch forward back – gate of left	157	Not Masked	True	Falso
Alarm – limit switch forward back – gate of right	158	Not Masked	True	False
Alarm photocell step-on of M1D motor of compenser of left side	159	Not Masked	True	False
Alarm photocell step-on of M2D motor of compenser of right side	160	Not Masked	True	False
Alarm crush lower oven	161	Not Masked	True	False
Alarm – limit switch - zero/stop - Elevator	162	Not Masked	True	False
PLC Alarm Left fridge	200	Not masked	True	True
Minimum threshold left fridge exceeded	201	Not masked	False	False
Maximum threshold left fridge exceeded	202	Not masked	True	True
Maximum threshold left fridge condenser exceeded	203	Not masked	False	False
defrost ended for maximum time left fridge	204	Not masked	False	False
left fridge door alarm	205	Not masked	True	False
left fridge multifunction input alarm	206	Not masked	False	False
left fridge instrument blocked alarm	207	Not masked	True	True
left fridge RTC error	208	Not masked	False	False
left fridge cell faulty probe	209	Not masked	True	True
left fridge evaporator faulty probe	210	Not masked	True	True
left fridge condenser faulty probe	211	Not masked	True	True
left fridge minimum temperature alarm	212	Not masked	False	False
left fridge maximum temperature alarm	213	Not masked	True	True
left fridge blocked compressor alarm	214	Not masked	True	True
left fridge overheated condenser alarm	215	Not masked	False	False

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left fridge assistance required	216	Not masked	False	False
left fridge power failure alarm	217	Not masked	False	False
Left fridge faulty HACCP storage	218	Not masked	True	True
PLC Alarm Right fridge	300	Not masked	True	True
Minimum threshold right fridge exceeded	301	Not masked	False	False
Maximum threshold right fridge exceeded	302	Not masked	True	True
Maximum threshold right fridge condenser exceeded	303	Not masked	False	False
defrost ended for maximum time right fridge	304	Not masked	False	False
Right fridge door alarm	305	Not masked	True	True
right fridge multifunction input alarm	306	Not masked	False	False
right fridge instrument blocked alarm	307	Not masked	True	True
right fridge RTC error	308	Not masked	False	False
right fridge cell faulty probe	309	Not masked	True	True
right fridge evaporator faulty probe	310	Not masked	True	True
right fridge condenser faulty probe	311	Not masked	True	True
right fridge minimum temperature alarm	312	Not masked	False	False
right fridge maximum temperature alarm	313	Not masked	True	True
right fridge blocked compressor alarm	314	Not masked	True	True
right fridge overheated condenser alarm	315	Not masked	False	False
right fridge assistance required	316	Not masked	False	False
right fridge power failure alarm	317	Not masked	False	False
right fridge faulty HACCP storage	318	Not masked	True	True
Alarm communication coin changer	50	Not masked	True	False
Alarm communication notes reader	51	Not masse	True	False
Errore comunicazione Lettore Carte di Credito	52	Not masked	True	False

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MDB unsupported decimal places alarm	53	Not masked	
MDB coin acceptor changer no credit alarm	54	Not masked	
MDB coin acceptor changer defective tube sensor	55	Not	
MDB coin acceptor changer acceptor unplugged	56	Not	
MDB coin acceptor changer tube iam alarm	57	Not	
MDB coin acceptor changer rom checksum error	58	masked Not	
alarm	50	masked	
MDB coin acceptor changer coin routing error alarm	59	masked	
MDB coin acceptor changer coin jam alarm	60	Not masked	
MDB coin acceptor changer possible credited coin removal alarm	61	Not masked	
MDB coin acceptor changer slug alarm	62	Not	
MDB coin acceptor changer tube full alarm	63	Not	
MDB coin accentor changer tube empty alarm	64	Not	
		masked	
MDB bill validator defective motor alarm	65	masked	
MDB bill validator sensor problem alarm	66	Not masked	
MDB bill validator rom checksum error alarm	67	Not masked	
MDB bill validator validator jammed alarm	68	Not	
MDB bill validator bill removed alarm	69	Not	
		Not	
MDB bill validator cash box out of position alarm	70	masked	
MDB bill validator unit disabled alarm	71	Masked	
MDB bill validator invalid escrow request alarm	72	Not masked	
MDB bill validator possible credited bill removal alarm	73	Not masked	
MDB bill validator stacker is full alarm	74	Not	
MDB cashless device malfunction error payment	75	Not	
MDB cashless device malfunction error invalid		Not	
payment media alarm	76	masked	
MDB cashless device malfunction error tamper error	77	Not	
diam		musicu	

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MDB cashless device malfunction error manufacturer defined error alarm	78	Not masked	
MDB cashless device malfunction error	79	Not	
MDR cachiese device malfunction error reader		Not	
requires service alarm	80	masked	
MDB cashless device malfunction error unassigned alarm	81	Not masked	
MDB cashless device malfunction error reader failure alarm	82	Not masked	
MDB cashless device malfunction error payment media jammed	83	Not masked	
MDB cashless device malfunction error refund error internal reader credit lost alarm	84	Not masked	
MDB cashless device command out of sequence alarm	85	Not masked	

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Chapter 11. Machine components technical documentation

11.1 <u>Default operating settings for fridges according to NAMA(USA) and NSF</u> <u>regulations. (simplified list).</u>

Description	Parameter	۴F	°C
Cell probe correction	CA1	0	0
Evaporator probe correction	CA2	0	0
Condenser probe correction	CA3	0	0
Decimal point display	P1	1	1
Unit of measurement degrees F or C	P2	1	0
Evaporator probe enabling	Р3	2	2
Condenser probe enabling	P4	1	1
Delay in displaying temperatures of probes	P8	5	5
Working set point difference	RO	4	2
Minimum working set point	R1	-4	-20
Maximum working set point	R2	0	-18
Set point change blocked	R3	0	0
Energy saving	R4	0	0
Decrease overcooling	R5	0	0
Duration overcooling - MINUTES	R6	30	30
Minimum temperature difference	R7	10	10
Delay in switching on compressor after the instrument switches on - MIN	C0	0	0
Minimum time between two consecutive switches - MIN	C1	5	5
Minimum duration of compressor switch off time - MIN	C2	3	3
Minimum duration of compressor switch on time - S	C3	0	0
Duration of compressor switch off during cell probe error - MIN	C4	10	10
Duration of compressor switch on during cell probe error - MIN	C5	10	10
Condenser temperature is higher than that at which the condenser overheating alarm is activated	C6	140	60
Condenser temperature is higher than the limit at which the	C7	150	66

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compressor blocked alarm is activated			
Compressor alarm delay locked	C8	1	1
Number of operating hours is higher than the limit at which the need for maintenance is signaled - HOURS	C10	0	0
Defrosting interval - HOURS	D0	6	6
Defrosting type (hot gas)	D1	1	1
Temperature at end of defrosting	D2	41	5
Defrosting duration - MIN	D3	10	10
Defrosting when instrument is switched on	D4	0	0
Minimum time between switching on of instrument and activation of defrosting	D5	0	0
Temperature displayed during defrosting	D6	1	1
Dripping duration - MIN	D7	3	3
Defrosting activation methods*	D8	0	0
Evaporator temperature is higher than that at which the defrost interval counter is suspended	D9	0	0
Defrosting alarm switches off once maximum time limit has been reached	D11	1	1
Minimum time that the compressor must be switched on before defrosting can be activated	D15	1	1
Predripping duration (compressor switched off)	D16	0	0
Number of evaporator temperature values used for calculation of the relative average	D17	1	1
not used	D18	40	40
not used	D19	3	3
not used	D20	180	180
not used	D21	200	200
not used	D22	2	2
not used	D23	1	1
Temperature associated with the minimum temperature alarm	A0	0	0
Temperature below that at which the minimum temperature alarm is activated	A1	-9	-22
Type of minimum temperature alarm	A2	2	2
Temperature higher than that at which the maximum temperature alarm is activated	A4	25	-4
Type of maximum temperature alarm	A5	2	2

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Delay of maximum temperature alarm	A6	120	120
Temperature delay alarm	A7	15	15
Delay in maximum temperature alarm	A8	75	75
Delay in maximum temperature alarm following the deactivation of the door micro switch input	A9	75	75
Duration of interruption in the power supply that occurs when the instrument has been running for long enough to cause the storage of the power interruption alarm when the power supply is restored	A10	30	30
Differential of parameters A1 and A4	A11	2	2
Kind of signal for power interruption alarm	A12	1	1
Evaporator fan activity during normal operation	FO	3	3
Evaporator temperature above the limit at which the evaporator fan is switched off	F1	23	-5
Evaporator fan activity during defrosting and dripping	F2	0	0
Maximum duration of evaporator fan deactivation	F3	2	2
Time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off	F4	60	60
Time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off	F5	10	10
Operation for low or high percentage of relative humidity	F6	0	0
Evaporator temperature below limit at which the evaporator fan is deactivated	F7	5	-5
Parameter F1 differential	F8	2	2
Delay in the switching off of evaporator fan following the switching off of the compressor	F9	0	0
Condenser temperature above that at which the condenser fan is switched on	F11	75	25
Delay in switching off of the condenser fan following the switching off of the compressor	F12	90	90
Time the evaporator fan remains turned off during function energy saving	F13	5	5
Time the evaporator fan remains turned on during function energy saving	F14	5	5
Effect caused by the activation of the door micro switch input	iO	4	4
Type of door micro switch input contact	i1	0	0
Delay in signaling of door micro switch input alarm - MIN	i2	30	30
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Maximum duration of the effect caused by activation of door micro switch on the compressor and evaporator fan	i3	-1	-1
Storage of door micro switch input alarm	i4	0	0
Effect caused by the activation of the multifunction input	i5	2	2
Type of multifunction input contact	i6	0	0
Multifunction input alarm delay	i7	0	0
Number of multifunction input alarms	i8	0	0
Time that must pass in absence of multifunction output alarms	i9	240	240
Time without activations of the door micro switch input in order that function energy saving is activated automatically	i10	0	0
Minimum time the door switch input must be activated for the defrost activation - s	i11	15	15
Minimum time altogether the door switch input must be activated for the defrost activation - s	i12	60	60
Number of door switch input activation such as to provoke the defrost activation	i13	180	180
Minimum duration of the door switch input activation such as to provoke the defrost activation	i14	32	32
Operation controlled by fourth output (condenser fan)	U1	6	6
Cell light activation	U2	0	0
Buzzer output deactivation	U4	1	1
Temperature below that at which the door resistors are switched off	U5	41	5
Operating time of demistor resistors	U6	5	5
Cell temperature below that at which the evaporator valve is deactivated	U7	4	4
Type of evaporator valve contact	U8	0	0
Buzzer output activation	U9	0	0
Operation controlled by fifth output (condenser fan)	U11	6	6
Energy saving parameters	HE1	nu	nu
Energy saving parameters	HE2	nu	nu
Time of activation of first defrosting period in real time	HD1	nu	nu
Time of activation of second defrosting period in real time	HD2	nu	nu
Time of activation of third defrosting period in real time	HD3	nu	nu
Time of activation of fourth defrosting period in real time	HD4	nu	nu
		1	

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Time of activation of sixth defrosting period in real time	HD6	nu	nu
Right fridge 485 address	LA Dx	2	2
Left fridge 485 address	LA Sx	1	1
Transmission speed	LB	3	3
parity	LP	2	2
Maximum setpoint	SP	-4	-20

*In order to set an automatic defrosting activation by means of the fridge digital controller EVX215, do as follow:

1) Press both arrows. 2) once you get PA then press SET. 3) reach number -19 hence press SET. 4) Press both arrows again so press SET on PA. 5) assign to parameter D8=4, thus press SET. 6) reach parameters HD1, HD2, HD3, HD4, HD5, HD6 and assign to them the wanted defrosting range time like, HD1=22:00, HD2=23:59, HD3= 02:00 and so on.



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11.2 Documentation of EVCO control unit for fridges

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e 10002010314 + page 128 EVX Series Digital Controllers for Static and Ventilated Refrigeration Display Cabinets

DOSTIN and EXECTL are reasoned with

·) memory reputs just protes responser prote and up

A consider of participants, interpretation product and the product for NPC product A depart reports places manimum of and multifunctional A depart outputs (may 5 for IDACITS) for operation of the con-

sor (30 X 8 250 VAC), definite the mapprison fan, a fourth and a

The use gaugementation is cell light, devices receive, auxiliary cut-put, cutput auxim, door measure, exaposation where or condenses their, admissing may be receive on tay real (an first modals, are open (settinual covers) the user interface constant of a

by the buttom (SET, UE DOWN, DEFROST AUXDAVE and Ow/SMIDAR) A stopic scatterin display Javath decarical parents and functional access and

Using the EVAD' programming any dis to context arguments is a positive to only out the uppositive view documenting of the compo-tion (promoter) if is also positive to consider the considered the positive promoter is an and prantace, we TE, were MODIKE com-

Propheters is completed we takk parel using M3 stall.

· Rost Tame Clock

sumplification processed

ventes 3.43

IN INSUM IMPORTA

14 Important. Ay read these executions before midding and using the product. Ny close attention to the nexts on insulation and operatory many, use these memoricos soponer with the instrument for Gaue reference. The instrument must be deposed of its asserting with local local on the collector of electrical and electrons, equipment.

R

 INTRODUCTION
 Advection
 Advection
 Diff is a new range of digital controllers for the operation of lastic and ventional refragences colorests

- The units a compound of the flatiourup models
- D2020 for the operation of state refrigerated catalogs, with a HACCP function.
- · DAGED, DAGEN and DAGED. For the operators of version-trasend cubinets, with simple HACOP function
- EVECTAL and EVECTS for the operation of vertilitiest reliquistic cutients, with time, advanced rePCCP function and an Energy Sering function
- FVO211 h realizabil with
- · I measurement sour any protect for MPC protect
- I dependence procession of the second s EVENUE is manufactured with
- +2 measurement inputs and probe and executor probe) for NPC
- Liddes stars (door webseweb) digital subjects project for sumpressor operation (16.4.8.252 VAC) when the response for all sumpressor (19.4.8.252 VAC). • 1
- be other stochast or to hot gas. DMDMs and DMDMs are equipped with 1 measure reputs part prote, exaposate protein and conde protein for MPC potent.
- ·2 digital regular ploter microsweich and multifunctions Opport input in the minimum and manifold of the compression in input coupling integral (in PVICOS) for operation of the compress are (IO-A 87250 VMC) deficient. The exaption of the compression filth care programmingle as cell light, demonstration, auxiliary cul-ture.
- that classified allows where requires reactionative other on complement lists DIMENSIONS AND INSTALLATION Dimensions

services and experiment in men and



8.2 Installation rest management starting MD much



3.3 Installation notes

Holes sum that the assisting considers againsting tempera-ture, humodry, etc.) fait within the lands induced in the text nicit specific/done

. do not install the device new heat sources pressions, not at ducts, etc.), nexe devices parts priving margines. Sample diffu-tion etc.) and places subject to device surviver, cars, humologic escention, dust, marchinecit schedulines or shutling.

· in accordance with laws on safety, protection against prothe currence with electrical parts must be emulied via the conet insulation of the instrument, at the parts that insure such protocolor must be secured in such a way that they cannot be removed without the using a special tool



and token re's powered and usy the regul 'ov' yokus phe etc

- built/red ord · "dand by "solar phy indramont is provened but it and this off an schools are regained an units of the possibly to manage with evhalute of the cell light or auxiliary output depends or (susuements)
- · 'off' shares the instrument is not powered

workin, water they would "start up? Among the japaneer three spanding tailed to on them. The world "Problem" ward. Fit private (Adduct to) (COMPARING VARIAL afteri mir jossler is hostified lisek izri, me ponumeri atalaas me

a third was in at the part of was do

- Manual switching on/off of the instrument is user that the technical is not could and that no other species
- lion a inproprist + press and hold down the ON/STAND-BY key for 2 late the one Annahim MC and maters of

Tec EX294, EX214, EX205 and EX215.

ong the multifunction important possible to re-

The display 4.5

The instrument is tradictived on, during normal spinistum, the display will invest the coff temperature, socied during definiting, when the ristrument will invest the temperature readalished with parameter dievent a set-bod of, the dealer will be

4.4

Evaporator temperature display (but EVX201) in sure that the keylenard is not locked and then no other tion a in propr

· press about the DOWN buy for 1 and the angling will show the loss manipular been

press and veloces the UP or the DOWN key to whent Ph3*
 press and release the SET key

To tail the processive 4 press and tenung the SET key and do not operate for 60 set

cents and observe for UP key and the DOWN key with the digiting strated, the cell temperatures and then do not opened for tell and.

· press and advance the ON/STAND-BY key

If the properties probe is adviced game sales Pil a Di War lafar PhJ inter the utgeloanst

4.5 Condenser temperature dis EVICIO5 and EVICIO5 only) denser temperature display (EVX204, EVX214,

cheel and that out attent igners · make sure that the sectored is not it

DOPL & IN 2010 a down the DOMN key for 1 set, the display will show the first

ident available · print and release the UP key of the DOWN key to over 1763

a permanent internet the SET land

 provide the provider
 b and the provider
 provide the provider
 provide the provider
 provide the provider to SET any and then do not special for of law
 provide the provider the UP is SET any and the aligned these the call temperature and there do not operate for dd an.

 press and visuals the **ON/STAND BY** log
 The condense profer & attant (parameter P1 + d), the later **Pb3** I THE DO HIDRON

4.4 Activation/disactivation of Overcosting function

make same that the keyboard is not locket and that no other opera-tion is in progress, that definiting weeklin departing is not in progress and that the mappointer fair is off (the last two top (20001) · prost and field down the OP way for 4 set: the Concepting LED will

There is a second secon the amount share established with parameteris's Guing Overscoling advances a new activated. I be defining enough extent when its function is in program, definiting will be activated at the end of the

Manual Activation of Defrosting 4.7

make sure that the keyboard is not lobed and that no other opera-tion is in progress, ensure that the Overcooling Aeroson is nor in

It down the DEFROSTING key for 4 set

The second secon 4.8

Operation for low or high percentage of relative humidity (but EVX301 and provided parameter P0 is set to 19 to constant for low percentage of inlater humidity the excels

ration annualized will be participant on it the compression is mentioned of parameter PA determines the project of time K.s. subclead off while parameter PS determines the project of pine K.s. subclead org During operation for a high decompany of matter humidity the expositaker fars a allowing on

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frem S.p.A. + Elser 10002012314 + page 248

4.8.1 Manual activation of operation for low or high percentage of relative humidity (but EVX201 and provided parameter F0 is set to 5)

make sure that the twobcond is not toolest and that no other procediam'r ai'r

- + piece the SET and the UP keys for 6 sec. the stigling well phone VML appearson for now percentage of relative harmong or '9989' papers non-for many percentage of relative manufally for 30 and
- e normal diquiay before the operation is comparte · press a key
- Activation of the operation for a way or high percentage of venture
- humidity can be done using pacameter Hs. If parameter HS is not at to 5, percent the SET and the SET Any w
- Laure the display of the following message 's a s of fol

4.8.2 Display of type of operation in progress (for low or high percentage of relative humidity, but EVX201 and provided that parameter F0 is set to \$) ale sure that no th

- · press, and reliand the SET and the UP says. the stanlin will a
- VML' ppenation for low percentage of relative humality or VMM approximation for high percentage of relative humality for 10 and To restate the normal allasticy before this operation is concrete + press a key
- Epirameter PE is not set to 5, preserving the SET and UP keys with cause the display of the message 'www' for 1 are if the keyboard is not
- of the Loop "Loss" for 1 is et if the loop
- 4.9 Manual switching evolution of the cell light (EVX204, EVX204, EVX205 and EVX205 long perioded that parameter w1 and/or parameter w11 is set to 0) mile sure that no other procedure is in proposi.
- · press and remains the ADDELLARY bey the LED lays and methy
- During the door intercounterly it is also provided to match served the sale light by remote see also preventer uf
- the util a set at 0 5.0. the utility man the the Rooth Indian is the cabinot light; and parameter of 1 is set at 2 is in the utility. by the little output is the auxiliary output, holding the AUXILIARY key down for 2's with Gause the swetch-controll of the ins

of the wellow curput 4.10 Tailthing on the demisting resistors (EVX204. EVX214, EVX205 and EVX215 only and provided that parameter of and/or parameter of 1 is set to 1

- summer that the intrustory is seatched on and that no other a · Jerna the: AUXILLARY loss for 2 are: the multifunction LED will topic
- up and th story will be switched on, Soft- for the ansoure of time employed with parameter of
- Manually investing of the demistr before the trive established with parameter us experts.

4.11 Manually switch on/off of the Auxiliary output (EVX204, EVX214, EVX205 and EVX215 only and provided parameter ult and/or parameter ultil is set

66 21 re that the keyboard is not socied and that no other proce

a in propriet. · come and remain the AUXILIARY in-

Using the multifunction input it is and possible to let ricitly paid off the mailey class.

- Episoteter ut is star 2.1 a the lating hyrapet by the footh-output is the audient stapping and parameter of F is set in G (i.e. the utility managed by the Will output is the catories light), holding the ALIGULARY key down for 2 s will cause the samp-certail of the
- alariet light UID and of the cabinet light. If the auditary output has been setubed on manuals, then a contain
- be sustained off manually (amilarly, if the availably output has been tensibly owitched on, then it can only be suitched off an the same

4.12 Energy Saving (but EVX201)

- During function throngy Seving the working support is increased of the temperature you have set with parameter of and the evaporator tari is barred on catletally on condition that parameter P0 has write For 2 parameter FTE sets the time the Set is parameter FTE the time is remain started on the FTE sets the time the fast lemans surred off a
- Once the time you have not with parameter 310 nos passed a actuators of the door switch digital input and on condition that the cultures temperature has reached the working legionst function (in ergy Saling is accounted automotically (as long as the legisd will be
- 6.12.1 Activatio in Energy S

with effect on the compressor only (EVX204, EVX214, EVX205 and EVX215) the multiplepose input it is possible to actual

- function throngy Saving at a detamine Function Energy Salving can be actuated in rear time too, to the time powhater an walk parameter HET, in this case the duction of the furst
- n can be all through parameter 162 4.13 Locking/enlocking the keyboard
- make size that no other pr

nit dried the DOWN and ON/TAND-BY have for 1 + come and release the UP or DOWN late PIZTOP **GEORG DEUTSCHLE STR: 70**

73730 Esslingen. Tel. ++49 0 71537505025 E-mail: info@piztop.de

- If the keyboard is tached, the following are not permitted · manual sector control of the instruction digitaj el ecopocita impensivar (na tra procedura equanal el
- paragraph 4.4) · disting of the conductor temperature was the procedure indicated
- capuph 4 St on of Overcoding function achietoryduschiet
- · manual adjustice of deficiency
- activation of operators for low of high percentage of session have by and surrang the find of operation
- · ronal samp ontof of the autory page.
- use information regarding the MPCOP alan
 cancellation of IMPCOP alarm lat.
- · changing the date and term
- oranging the working regions (with the procedure desirbed at
- · depiny of compressor operation hours
- concellation of compression operation froms
 the operations cause the display of the latest "Let" per
- In unnex the lends Instand field down the DOWN and ON/STAND-BY legality (
- e duily set now the restory 'Uel,' for I an 4.13 Silencing the Buzzer
- ensure that no other procedure in its progress
 ensure they also draw the process of the key will not cause the effect area
- start with this key. For EX204, EVX214, EVX225, and EX8215.
- If parameter uit and/or parameter uil 1 is let to 3 and parameter uil is
- set to 1, pressing the key will also discovers the assess output If parameter uP 4 set to 5, the buston will not be activated. SETTINGS
- 8.1 Setting the day and real time (EVX214 and EVX215 anity
- · orsure that the legisland to not kaked and that no other procedures ant in progeni
- Added down the DOWN key for 1 sec. the copiay-will the the first sides available
- · press and minute the UP or DOWN key to which 'VIC' To change the plan • press and release the SRT key the digital will show "yy" fully
- IN THE OCTANT AND and and the cost. 12 of the P a and retised the UP or DOWN key within 15 set.
- To change the month a prime and referate the SET key advancements the year the distline
- will show 'we' followed by the two numbers of the world press and amount the UP or DOWN key within 15 will. to change the day lift
- the SET key while changing the month: the dis MC followed by the two numbers of the day · print and role phy wit show "Md" 5 · press, and release the UP or DOWN key within 15 and
- Statunge the hour · press and returns the SET key while sharinging the day of the m
- the dispose will show "bh" followed by the last numbers of the
- · press and network the UP of DOWN here w The must is utilationed using the 24 your spreem.
- change the mesules · pres and release the SET key while changing the hour the display said stains 'net' totics of by the two minute inumbers
- · press and minute the UP and DOWN ways within 15 we press and release the SUT key or do not operate for 15 sec. the close
- LED will settify of to est the procedure
- press and release the UP or DOWN key until the diplay shows the cell temperature and then do not operate for dd sec

REAL IN ON/STAND BY 10

- 1.2 Setting the working selpoint Heyboard is not include with that not some procedure
- · peak and refurse the SET key the compressor LED will feel · pless and minore the UP or DOWN key worker 15 year, see also
- mirt, vit and · print and onnae the SRT key or do not operate for 15 sec. It
- compressor LED will assist the flor their their entrument will and the
- o exit the processare before the operation is no · do not contain for 15 art providences and be coved:
- Setting the configuration parameters 5.3

- d down the UP and DOWN keys for 4 sec. the display will show
- TA
- Protect and release the SET key
 press and release the UP or DOWN key where 15 set to set >10
 press and release the SET key in do not opened for 15 or. . hold down the UP and DOWN keys for 4 sec. the display will the

SP select à parameter

to change a pair · ownit and release the SET are

- press and referee the UP or DOWN key waters 15 set.
 press and referee the SET key or dis tot operate for 15 set. to put the procedur

- . hold absentive UP and DOWN keys for 8 set and do not operate to b0 tex stary.
- After changing the parameters, suspend power supply flow to the instrument.

Bestoring the Manufacturer's Settings 5.4

to pegin the pro

ini

Make user that the manufacturer pertogal are (see chapter 12), 4 MACCP FUNCTION 4.1 Preliminary note: (2020), DX203, DX203, and DX203, and DX201, DX203, DX203, and DX203, and The instrument is able to allor as to 3 MACCP allows The instrument process the following instruments

spend the power supply to the inst To esit the procedure before the operation is com

- d down the UP and DOWN key for 4 sec. the digitity will those TA

press and release the SET rely press and release the UP is DOWN key within 15 set to art. 144 press and release the SET key or do not openate for 15 arc.
 Total down the UP and DOWN keys for it arc. the display will draw 487

hold down the UP and OOWN legs for 6 sex during the procedure (that is, tablete setting, 1) the settings will not be reasonal).

Make sure that the manufacturer's settings are appropriate

• the skell dualar (from Line to W hours and SY me), peturities

CODE ALARM THE (DITION UNLIF) AL develues imperature alarm (the merum cell tempera-ture alarm) any alarm of this topo) AR maximum (emperature) alarm (the neuronum cell tempera-

sure studing any alarm of this types does relevanged alarm (the myaemum cell tempers)

Important Notes - the codes are displayed in the order shown in the table

- the instrument stores the minimum and maximum tem-The instrument strete the moreover and maximum temperature asternis provided. the temperature astocicated with the atarm is that of the cell (parameter AG = 0)
 The instrument updates the information regarding the beat atarm provided the critical value of the new atarm is more critical than that stored atarm or provided the information or provided the information.

matters has already been displayed. - If the instrument is ewitched off, no atarms will be stored. When the problem that caused the starts disposen, the display is

The HACEP LED provides information impaiding the HACEP alivert

the date and time the alarm was signated
 the duration of the alarm-draw 1 mm to 99 found and 59 mm, partial

CODE (ALMRITTHE JOHNCA UNLIE) AL Internal Intercolum Joint Die Internal Internation

of the cell during the alamst AH maximum temperature alam phe maximum temperature

of the cell during the alams door intercounters input alams the insumant temporal

power is resorred; see also parameters A1Q and A12

ture of the cell during the atomic see also parameter power supply reproduce atomic pail emperature at

perature starm provided the temperature attackated with the alarm is that of the cell (parameter A0 = 0) to avoid repeatedly storing alarms due to interruptions in the pewer supply, discontext the power when the instrument is switched off

Introduced in landshed on if the duration of the power supply interruption alarm is long enough to cause a clock error (code "ris"), the instru-ment will not provide any information about the alarm

· If the instrument is switched off no alarms will be stored

interception starts prode TPF3 which requires manual restantion of

problem that caused the alarm alloppeon, the deplay is recently operation, with the occupion of the power supply

· the instrument stores the minimum and max

IN A latter to ident up to R HACOP alarms, after which the

mat to normal operation

For ENQ14 and EVX215.

I the state to be proceeded

tored to rearry agent

when property official

· colocat work as

personale see pologiaph it i

int typeral alarm will adjust the of

The instrument provides the following influ-

sare during any alarm of this type; size also parameter 4

press and means the SET key. press and means the UP is DOWN key within 15 set to set 11. stress and means the SET key or do not special far 15 set the means implay we how. SET forming for 1 set, with which the means

many soft put the p

The critical addat

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to maise	elly restore the morenal display-	
• (nest 4)	ky.	13
# pixiete	ter ut and/or parameter ut t is set to 3, pressing the key soll	1.2
Time in the later	e the address topological and an and the statement that a cal-	1.2
the slare	to see provide internation regaring the stronge strate of .	7
6.2 0	Suplay of HACCP slarm information	
for 6992	91. EA093. EA094. EA926 and EA9215	¥.
To start if	ne procedure:	17
+ ensure l	that the keyboard is not locked and that no other procedure.	1
n m pn	ograna	1.5
+ hold-do	which DOWN key for 1 are: the digitity will show the first	1.5
DOM: JN		1.2
• press ac	A rease the OP of DOWN says a seed 1.5	1.3
inclusion in the second	In the same and the programmer of the	
To netroit.	at stamp	
• (PED) 41	designs the UP or DOWN by its stirt, for example, "AH"	30
To view to	te information about the alarm	
* (2019) all	id release the SET key, the HACCP LED will stop fushing and	•
retian	permanently on and the display will show the following .	1.3
10.0.071	ce of information this examplet	19
NPD.	MEANING	1.2
8.0	the extent wave in 0.0 (C/0.1)	1.2
-0.4	The duply habout to those the dualition of the asem	1.5
015	The approximation of the provided of the provi	
AH	the station selected	
The shoet	av shows each message for 1 sec.	
To out its	e sequence of information	
+ president	d result the ON/STAND-BY key the digity will show the	1.1
dam is	record on the example 'AH')	1
To est its	e ploceduit/	1.3
100.010	impamor of vitornation	1.2
 perior 	d resize the UP or DOWN My until the digity shows the	1.5
cell terre	penaure and shim do not operate for 50 sec.	1.5
Alternation	why.	1 =
	A minimum of CONTRAMPARY law	
fitte pas	to be and the set of the set of the set of the set of the set	
not be d	utani	
for.1502	14 and £39215	
To duri il	ter processure:	
+(rise)	Pair the keyboard is not looked and that no other operation -	
10.01	ogenn	
+ hold as	white DOWN key for 1 set. The diabley will show the first	1 -
10000.00	of second day (18 or DOMA) has been also at 1	
Training of	of robust the GT are the decise will these the most second	
WATE D	ode jur tablet, one of the codel, shown in the table in para-	
union 4	Utokwed by the number '1', the anger the number a three	
TUROWS	the aliant code, the older the aliant (s)	
To select.	an asarts	
*protion	d release the UP or DOWN key do select, for exempte, 'AH3').	
To see the	formation regarding the alivers	
+pres ar	id relevan the SET My, the HACOP UED will stop finitions and	
9,00 1007	an permanently on and the display will show the following -	
- March	La administration por exempted	
	Percent of the second states o	1 -
DAA	the depice is about to prove the date and hour or which	
	the aisim was signaled	
y09	the alorn was signaled in 2009 pasa continues	
103	the alarm wate algorithm in Mwith alars continues)	
#26	the alarm was signated on the 24th of March 2009	
h14	the allow was signaled at 16.00 jother data continues)	
n30	the alarm was signaled at 76.50	
dur	The display is about to show the asset dutation	
NOT	the approximated to a receiption of the	
015	The statest strength in the state of the statest statest	
The short	to will show onch metsade for 1 sec	
To see in	e information sequence	177
· primi an	d million the ON/STAND-BY key, the draftly will show the	
nelected	Lalern ('ARD' in the exemple)	
To est th	e procedute.	
+100.7VE	entonmation sequence	
+ presi ar	d rease the UP or DOWN key unlit the digkly shows the	
000 (000	perature or do not operate for 8d sec.	
Attrativ	nty.	
+ put the	information sequence	
+ pres at	IC NOTING THE ON/STAND-BY MAY	
2.000.000	nament does not have any assess append, the labor 13' will	
43 4	invalling the MACCE stars list	
Acres	that the landsound a next locked and that he other committee	
	The second	

Free Lp.A. + Code 10402012314 + page 3/8

press and release the SET key or do not operate for 15 set; the display will show a fashing ">>>> for 4 sec and the MCCPUED will watch off and then the assumers will exit the procedure. the inditionent does not have any alarms stored, the label 'HLS' will state display CALCULATING COMPRESSOR OPERATION HOURS (but EV3(201) Preliminary notes
 evaluates is date to store up to 9,999 hours of compressin opation, after which the number **1999** stars Bahang. **Display of Compressor Operation Hours** rule sure that the testioned is not looked and that no other opena een is in program press and held down the DOWN key for 1 and the deploy will show the first available label pens and release the UP or down DOWN key to select "CH" rest and refuser the DET key exit the procedure press and retease the SET key or do not operate for 6d and press and retease the UP or down DOWN key until the display hows the left temperature or do not operate for bill sec. winiti vest and release the ON/STAND-BY his 3 Cancelling Compressor Operation Hours date sum that the implaced 4 not occurs and that no other procehere is in progress. sets and hold down the DOWN key for 1 set: the display will show ne fest available tabel vers and remain the UP or DOWN key to select VCH cent and relate the SET in tests and release the UP or DOWN key within 15 sec to set '149 press, and release the SET way or do not speciale for 15 sec. the display will allow a finituring ">>>>" for 4 sec them the manualment will ent the procedure WARNING LIGHTS AND DIRECTIONS 1 Warning lights UED MEANING Compression UED legre If the LED is on, then the congressor is on If the LED is forming . the working setpone is in the process of being changed we the procedure described in paragraph 5-2) · compressor protection operation at progress - pavameters CD. C1. CJ parameter (7) (EV0204, EV0214, EV0205 and EV0215 only) Defrost LED . FRAME • deficiency is in progress # # III. Keizhing • prindripping in progr - parameter shi 6 data EV92011 defeating required but a compriever protection operation is in progress paveneters CO. Ci and C2 that EV92011 · dripping in progress panameter d1 (but EVR001)
 Resting of coolars liquid in progress - javamener al 5 (pur ID/0207) Evapouriar fan LED tepre 6 If it is on, the exponent fail is on put EVROTI If it is on, the exponent fail is on put EVROTI If it is feeling, the exponents for a disclosed parameter F3 (but EVX201) Get light UED ÷ if it is on, the cell light has been switched on manually EVX204, EVX214, EVX205 and EVX215 only and provided the parameter of and/or parameter of I is set to 0 # 4 is flashing, the cell tight five been swethed on by remath. parameter (2) (EV0204, EV0214, EV0205 and EV0215 only and provided that parameter ult anxiety parameter all is set to be Multifunction LED topy (6) # Kiston in are swedned on #5/8204, EV/Q14, IMQ05 and IMQ15 only and provided that parameter ull and/or parameter ull1 is set to 1) . the autiliary output has been manually sustained on JEVX204, EVX214, EVX205 and EVX215 only and prowhich that parameter of providing parameter will a set to 20 the door relation will be writehod on IEVQ04, EVQ18 P/0295 and D/0215 only and provided that parameter uit and/or parameter uit I is set to 4)

 the evaporator valve will be switched on (EVA204, EVA214, EVA205, and EVA215 and and provided the parameter of another parameter of 1 is set to 5).
 the condenser fails are the switched on (EVA204, EVA214,

	(accession)
	a the walker indication from the second of the second
	parameter & EVERAL EVERAL EVERAL AND A PARTY
	only and provided that parameter uit and/or parameter
	ull + set to 2y
	A a delay in switching off the condenser for is in progress
	parameter F12 (EV0204, EV0214, EV0205 and EV0215
	drily and provided that parameter u1 and/or parameter
-	4114.0400.00
Θ	COO. III) All adapted the day and and there are to the increase of based
	interent, the day and out the are in the process or being
HACCP	INCOMED
	If it is on, all information regarding HACOP atoms has not
	Seen (Bplight
	If it is faithing, the instrument has stored at least one new
	HACCE stars
	A study, all information regarding the PACLP alarms has
	been appayed or the list of HHCLP aurits has been can-
-	Francis General UTE
0	if it is on, the Energy Saving function is running that (20/251)
	parameters e4, F13, F14, 65, (10, HE7 and HE2
0.	minimum uto
	If on, compression more thread in regured (but (VVQ)(1)
	parameter C10
8	Chercooling LED
	in on, the Overcooking function is an propriet
	Alarma citt
4	of one an abarm of error is in processe
×	Cetaus grade UED
	If on, the temperatures will be deployed using the Cetitus
	grade une of mosurement
	- parameter 72
	Føhrenheit guste IED
	If an, the tomperutures well be digute/voluting the Partern-
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en.	Contraction of the second seco
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1.2	Signal Descriptions/Explanations
CODE	MEANING
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THE .	copervolation for a regri percarange or residue ramitary et
	Annatalian and a second s
Lot	propest. Re-leadoard a locient
Lot	progress. the keyboard is locked: see paragraph 4.13
kot	propes. The keybord is locked: - see paragraph 4.13 the working import is blocked
kot	propes. The keptoend is locked. - see paragraph (4.13) The working surport is blacked - parameter (3)
Loc	propest the topbord is locked. - ser paragraph 4.13 the sponting report is blacked - parameter 13 the spontion requested is not avabble
4.0t	Interprets Interkeyboard & locking: - see paragraph 4.13 the sectory septore is blocked - parameter 13 The sectory requested is not available Automotion
Kot 	propesi the keyboard is locking the program 4.1.3 the program 4.1.3 the program regulated programmer () the special regulated is not available Azams bit Assess
Kot Final R.1 CODE	propest The keybord is locked - see perception 4.13 the working report 8.15 percent 13 The spectron requested is not available Automatic Alarmet Microwe dam percention HACCP alarmet
Kot P R.1 CODE AL	propes. The keybord is locked - ser prepring report is blocked - prometer () The socked repueched is not avable - parameter () The special repueched is not avable - Advites - Advites - Marmis MCARMO Minimum stem temportures (MACCP starme) - Society
Lot First R.1 CODE AL	Interpress Inter keyboerd is locking: - see paragraph 4.1.3 the sectory septore is backled parameter () Me spectory in the sectory ALARKE ALARKE Michael Michael Solutions - chick the cell temporature (NOCC) only
Kot P R.1 COCE AL	Interprets Inte Reptioned & Exclusion - see paragraphic 4.1.3 the second spectral is Exclusion - parameter 1.1 Inter spectrosen requested is not available Automatic Automatic Michael Michael Michael Michael Michael Michael Michael - processes - official the compensative (EVX201) only - official the compensat
Koe P R.1 CODE AL	Interpreta Inte Reptioned & Exclusion - see paragraph 4.1.3 - the sponsore 4.1.3 - parameter 1.3 The sponsore requested is not available - ALARME Alarma Michael Alarma Michael Michael - Sponsore temperature (EVCOD) unity - check the data temperature (EVCOD) unity EVCOD1
Koe P R.1 CODE AL	propest. The keyboard is locked see prospectin 4.13 the working report 4.13 the working report 4.55 provided to not available - provident 1 the working report to the available - Authors - Autho
Kot P R.1 COCH AL	Interprets Interpret Inter
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Lot P 8.1 CODE AL	Interpress. Inter Replaced & Backed. Inter Replaced & Backed see panagement 4.1.3 the second papeore is Backed paneteer 1.1 the specond requested is not available. Automs
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Lee 0 0 Al AL	Interruptional in localization The keyboard in localization - perspectively a point in Disclored - parameter (1) The spectrator requested in Act availables Automatic Auto
Ket P B.1 CODE AL	Interpress Inte keyboard is locking! - see panogen 4.1.3 the socking septorel is blockod - pounteer 13 Inter spectroson requested is rigt available ALARME ALARME Michael Michael Michael Michael - pounteer 13 - trock the temporature (EVXCD1 only) - trock the temporature (EVXCD1 only) - offer to - offer to - offer to - parameters A1 and A2 (EVXCD1 only) - the informer A1 and A2 (EVXCD1 only) - the informer A1 and A2 (EVXCD1 only) - the information (A1 and A2 (EVXCD1) - the information (A1 and A2 (EVXCD1) only) - the information (A1 and A2 (EVXCD1) only)
4.001	Interpress. Interp
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6.00 5.5 6.1 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	Inte kryboerd is tooland. Inte kryboerd is tooland. Inte support is backed. Inte spontony separate is backed. Inter sponton requested is not available. ALARMS ALARMS ALARMS ALARMS ALARMS ALARMS ALARMS ALARMS ALARMS ALARMS ALARMS ALARMS ALARMS ALARMS ALARMS INTER STORES Interpretation (INTER STORES) Sources Interpretation and AZ (INTER) (INTER STORES) Interpretation (INTER STORES) INTER STORES INTER STORES
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Ket P KI CCCC AL AH	Inte Replaced a locale. Inte Replaced a locale. Inte Replaced a locale. Inte second a locale. Inte second a locale. Inter second requested is not available. Automs Aut
AH	Inte kryboerd is boking! Inte kryboerd is boking! Inte kryboerd is boking! Inte spontong septoral is boking! Inte sponton requested is not available: Automotive Automot
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Keet 9 8.1 AL AL	Inte Reploand & Koland. Inte Reploand & Koland. Inte services of Koland. Inte services of Koland. Intersection requested is right available. Accents:

provided planeter (2 is not set to -1 • the durin output will be activated landwidd that parent-

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Environment + Costs (1990) bild + more diff.

	 press a key to restore normal disatesy. 	Pv2	Evaporator probe emar (but EVA201)
	Man consequences		104.60m
	• A the power suppy retruption will tropp then the same setablished with the statistics Ald. the state event will		the same as the proceeding care out with respect to the
	must dealer and the second sec		Mars. communication
	• the stem output will be arbuintd grounded that param-		• If perameter P3 is set to 1, the defrosting period will be
	eter is Land/or pasameter is Lt is sec its 3)		for the amout of time set with parameters 3
14	Mutthunction input asimi joray EVIDINE EVIDINE EVIDINE		. Eparameter #3 is set to Land parameter dB is set to 2 or
	940 8/0215		to 3, the instrument will operate as if parameter dil were
	506/00/9/		setto 0
	 Aughting chine of submission 		 If parameter F0 is set to 3 or 9, the minument will oppose
	Many consets encore		Pre-physical and the articular transition for a second secon
	• the effect escapabilities with parameter (5-		Her ut and/or parameter ut t is lat to it
	. the starm output will be accounted provided that param-	Ph3	Gandenier proce entir (EV/Q04, EV/Q14, EV/Q05 and
	eter uit and/or parameter uit 1 is set to 30		EV9215.0497
154	Pressure switch alarm (crity EV0204, EV0214, EV0205 and		Solution;
	£402131		 the same as the precending user hat with respect to the
	Solutions:		condenser probe
	 Very the cause of reput accounts; The entering of the CP of and the entering 		want consequences
	· south off and re-stati the manuation of automat the		a funded
	DOWNT THEREY		· compressor blocked by condimient temperature alarm
	Allain consequences		(Loke 'C3d') will rever be activated
	· the regulators will part the off		+ the alarm pupped will be activited (provided that perami-
	+ the starm output will be activated (provided that param-		eter uit and/or parameter uit in let to 3
	inter uit und/or parameter uit 1 is set to 30		 E parameter un and/or parameter unit is set to 6, the
COH	Condenser overheated alarm jorky EVX204, EVX214,		condenser tan will operate in parallel with the condenser
	EVIGOS ANE EVICTIN	196	Cox aix lives an tools out
	Soutions,		Sound fire the sector of the
	A comment (5 is used		A result the day and has the
	Alter control and		 Conception of a large A share and another well conception.
	The starts output will be achieved (penaded that param-		If the Langement warm let to 0
	etter ull and/or parameter ull1 is set to 31		. the HACCP function will not provide information regards
	. I perameter uit and/or parameter will is set to b. the		ing the date and hour in which the alarm was signaled
	condenser fan will be switched om		. the Energy Swing Ratcton will not be available in real
Cid	Compressor blocked alarm (sinty EVX204, EVX214,		pre
	EV0205 and EV0215		 the starm output will be activited (provided that param)
	Solutions		eter ul and/or parameter ul l is set to 3t
	· chex the condeniar temporature	When p	v problem that charact the warm disappears, the mitrument
	• parameter Cr. som	100,8716,0	o nomial operation, well the exception of the cock error
	 Motor or and instant the transmission of the cost ment is sublished back on the entropy of all the cost. 	poor n	K I WHEN REQUIRE THE THE AND DOLY DO BY
	denore a self-factor that the established in parameter	11.1	factorical data
	C7. deconnect the power supply and clean the con-	Case: o	ITAL CONT
	deriver	Frontal	protection grade: # 00
	Mars consequences	Cenner	Gena: 6.3 mm Sixton convectors (0.248 in, power and
	It is compressed and the evaporator lan will be switched.	outpart.	screw terminal board (input)). 6 outer connector (senal port)
	ur.	Operati	ing temperature: hom.0 to 55 °C (how 32 to 131 °C 10
	+u-e annu onting mag pe scampt blowood pot hww-	90% ret	the humdry without condematorij
	etter uit and/or pacemeter uit till att do 30	Pewer:	230 VCA, 50/50 Hz or 115 VCA, 50/50 Hz
	Devoluting autom samples or because material price has	and EV	Void of Cold data in the absence of power (EVA214
	Solutions	Battery	A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY.
			recharge time (EVX214 and EVX215 only); 2 mm
	· verify that the exoponence probe is inset.	without i	recharge time (EVX214 and EVX215 only): 7 min
	verify that the exoposition probe is inset: very parameters 42, 43 and 411	without in Napply1-	recharge time (EVX214 and EVX215 only): 2 min temption dhe battery is incharged by the minument power
	verify that the mappings probe is insig view parameters d2, d3 and d11 ·press a key to restore normal digates	Alaren I	recharge time (EVX214 and EVX215 only): I min temption the battery knotwards by the minument power sectors: gover request or EVX201 and EVX203, such as to
	verify that the mopositize probe is intex very parameters 42, d1 and d11 eprets a key to endore normal dialoge Main consequences.	Alaren I Evicitik	recharge time (EVX214 and EVX215 only): 2 min temption-the battery knetworks by the minument power sectors: good moust in DVX201 and EVX202, duiting to (20214, EVX205 and EVX215).
	verify that the mappoints probe is intex very parameters d2, d3 and d11 optits a tay to instore normal datage Man consequences the instrument will construe to function normally	Alarm I EVX201	recharge time (EVX214 and EVX215 only): 2 min temption-the battery knetworks by the minument power batterist: open request in (VX201 and (VX203, itsalt in ter (VX214, EVX205 and EVX201), measure imputs: 7 peti priori for NFC proor
sher b	verify that the mappoints probe is intex very parameters d2, d3 and d11 very parameters d2, d3 and d11 very to instance normal display Man (onrequences very answeright set constance to function normaly problem that caused the damn displayers, the insumered	Without I Nacchyl Allarm I EVX201 EVX201 EVX201	recharge time (EVX214 and EVX215 only): 2 mm temporary temporary and vegoting the minument power latence: approximates in EVX201 and EVX203, itself on the EVX214, EVX205 and EVX215, measure imports: 2 minutes for MFE proce I measure imports: 2 minutes and evaporator proce; for
Scherr dre return to	Henry that the mappoints probe is integ were parameters 42, d1 and d11 errors are your original display Main consequences The mapping of the mapping of the consequence rormal bunction, with the acciption of the consumer rormal bunctor, with the acciption of the following alarms	Without I Report Alarm 1 EVX201 EVX201 EVX201 EVX201 EVX201	recharge time (EVX214 and EVX215 only): 2 min temption the battery knotward by the minument power instances approximately to PO(201 and EVO(20), studies to (20214, EV0(26) and EVO(25), measure impute (2 policy for NFC probe (measure impute 2 policy for NFC probe) (measure impute 2 policy for the and evopositor probe) for probe)
Scherrichte Hetzaniste • thet pow	verify that the mappoints probe is intex verify that the mappoints probe is intex verify any to instance normal digities Main consequences Provide integrations to function normally problem that caused the dam strappoint. The resumment remain function, with the acception of the following allema, any problem that exception of the following allema, any problem the screepion of the following allema, any problem the screepion of the following allema, any problem the screepion of the following allema, any problem that exception of the following allema, any problem the screepion of the following allema, any problemation allema (code 1981)	Without I Record EVX204 EVX204 EVX204 EVX204 EVX204 EVX204 EVX204 EVX204	recharge time (EVX214 and EVX215 only): 2 min temption the bittory knotward by the numeral power batteris: goint regulat in EVX201 and (No201), built in the EVX214, EVX205 and EVX201 by NFC probe impacts in parts: 2 post probe and response probe for probe b, EVX214, EVX205 and EVX215 measure inputs: 3
Sheri bi Istan to • the pow preset	verify that the mopositize probe is intext very parameters d2, d3 and d11 very a tay to instance normal display Man consequences. The instrument will continue to function increasily problem that council the damm dispoport. We ensurement very parameters will continue to function increasily reduces the damm dispoport. We ensurement very parameters will continue to function very parameters	Without I Ruppyl Alarm I EVX204 EVX204 EVX204 EVX204 EVX204 Set pro	recharge time (EVX214 and EVX215 only): 2 min temption-the battery knetword by the minument power batteria: quite request or (VX201 and EVX20), task in the (VX214, EVX205 and EVX215) impassive impacts: 2 performed for NPE probe in measure impacts: 2 performed and evaporation probe; for probe 6, EVX214, EVX205 and EVX215 measure impacts: 3 w. morpositie probe and condenser probe; for NPE probe and EVX212, doi:10.1016/j.conden.00176.0016.00176.0016.00176.0016.00176.
Sheri bi Inturn to • the pow present • present of the s	verify that the mopositize probe is intext very parameters d2, d3 and d11 optist a tay to instore normal disalay Man consequences the instrument will continue to function monoisly problem that counsel the along targetory. The ensurement connal function, with the acception of the following along results interruption along tools 'Te' which requires the of a lay institute along tools 'Te' which requires the matrixmag of institutes to the temporate subserving of the matrixmag of	Without I Reconst. Alarm 1 EVX201 EVX201 EVX201 EVX201 EVX201 EVX201 EVX201 EVX201	recharge time (EVX214 and EVX215 only): 2 mm temporary temporary and vegoting the minument power lastener: quice impact in EVX201 and EVX203, statem te (VX214, EVX205 and EVX201 protection for the measure impacts: 2 mm protect for the protect immeasure impacts: 2 mm protect for the protect immeasure impacts: 2 mm protect and invaporation protect for protec is exception protect and EVX215 measure impacts: 3 is emprotein protect and EVX215 measure impacts: 5 is other Protection (the protect for the components) protect (the protect for the components) and EVX205 measures (the protect for and EVX205 digital impacts: 1 bits intercement) for a source Protect (the protect for the protect for
When the return to orestary or dress of the s	verify that the mappoints probe is intex vise parameters (2, d) and d11 vise parameters (2, d) and d11 vise any to instance normal display Main consequences vise instances and any topological any operating operating operating and topological any operating operating any operating o	without in Received Execution Every and Every	recharge time (EVX214 and EVX215 only): 2 min temption the battery knotweed by the minument power batteries: quote request in Do2011 and (No201), station to (NO214, EVX205 and EVX215) measure imports: 1 peri priors for NFC prote in measure imports: 2 peri priors on NFC prote measure imports: 2 peri priors on NFC prote measure imports: 2 peri priors on NFC prote in measure inports: 2 peri priors on NFC prote prote is, every statistic prote and condenser protect for NFC prote and EVX203 digital imports: 1 protect information for y open (minimally charact condenser protect for NFC protect).
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Silven de Inturna la Orientaria orientaria Silvena Sil	verify that the mappoints probe is intex verify that the mappoints probe is intex verify to instance normal digity Man consequences verify to instance normal digity Man consequences verify the sequences verify the sequence maximum time has been toolse verify the sequence the presiding of a lay verify the sequence the preside a trace verify the sequence the preside a lay verify the sequence trace verify the sequence verify verify the sequence verify v	Without I Notify I Alarws I EVALUE EVALUE IN EVALUE IN EVALUE IN EVALUE IN EVALUE IN EVALUE IN EVALUE IN Mansur Bestur EVALUE IN EXALUE IN EVALUE IN EVALUE IN EVALUE IN EVALUE IN EVALUE IN EVALUE	recharge time (EVX214 and EVX215 only): 2 mm temporary intervenced by the minument power batterie: space impact in EVX201 and EVX203, station to EVX214, EVX205 and EVX215 measure impacts: 1 intervence impacts: 2 pml protection for NFC protection intervence impacts: 2 pml protection for NFC protection intervence impacts: 2 pml protection impacts: 3 is exceeded in the exceeded intervence intervence is exceeded in the exceeded intervence intervence is and EVX203 digital temports: 1 block intervence intervence impacts: 2 pml protection intervence is and EVX203 digital temports: 1 block intervence is and EVX203 and EVX215 digital inputs: 7 crossents: and institutions of the intervence is and intervences. 5 V F million is a million of the 10 to 105 °C (them -40 to 200 °F) is intervences. 5 V F million is and intervences. 5 V F million is a million outputs: 3 million is a million outputs: 5 million is a mill
Silver de return to - the person preserv - compre- silient - - - compre- silient - - - - - - - - - - - - - - - - - - -	verify that the mappoints probe is intex verify that the mappoints probe is intex verify the problem for a start of the second display Man consequences verify the mature of the second display Man consequences verify the mature of the second display manual display more mature of the second display more mature worked of because maximum time has been socide display instruments more mature more	Without I Nacova L Alaren L Evacion Evacion Evacion Evacion Sol I evacion Evac	recharge time (EVX214 and EVX215 only): 2 mm temperon dre battery a servinged by the minuments power laterers: gene request or EVX201 and EVX203, task in ter EVX214, EVX205 and EVX201 and EVX205 proce I measure inputs: 2 gent protect on NEC proce I measure inputs: 2 gent protect and evaporator proced for protect and EVX205 add EVX215 measure inputs: 3 c, more and evaporation proced for NEC protect and EVX205 add EVX215 measure inputs: 4 w, more and evaporation of the evaluation for y other (Neimatry Libered Contents) (here can be and EVX205 add EVX215 measure inputs: 7 w, more and evaporation of the evaluation of the construction and evaporation of the evaporation of the second the analytic state of the evaporation of the second of the evaporation of the evaporation of the second of the evaporation of the evaporation of the evaporation where 0.1 °C/1 °C/1 °C/1 independent advector (1.1.6.A.); a definition and current advector (1.1.6.A.); a definition of the evaporation of the evaluation and evaporation of the evaporation of the evaporation where 0.1 °C/1 °C/1 °C/1 independent evaporation (1.1.6.A.); a definition of the evaporation of the evaporation where 0.1 °C/1 °C/1 °C/1 independent evaporation (1.1.6.A.); a definition of the evaporation of the evaporation where 0.1 °C/1 °C/1 °C/1 independent evaporation (1.1.6.A.); a definition of the evaporation (1.1.6.A.);
Shen the neturn to - the poor pressure of the p - compre- shapper - before neutrice 10 10.1 CODE F1	verify that the mappoints probe is intex verify that the mappoints probe is intex verify in interface manual digiting Main consequences verify interface and its consult of Anction incometly manument will consult of Anction incometly manument consult of a subscription of the information manument consult of a subscription of the information manument consult of a subscription of the information verify that the information of the information manument more and manument consult of a subscription verify that the probes is a type toto verify that the probe is a type toto verify that the probes is a type toto verify that the probe is a type toto verify that the probe is a subscription verify that the probes is a type toto verify that the probes is a subscription verify that the probe is a subscription verify the inter	Webcar North A Alares I Porchet Evaces In NYC Evaces North NYC Nyc Porth Nyc Porth Nyc Nyc Porth Nyc Porth Nyc Nyc Porth Nyc Porth Nyc Nyc Porth Nyc Porth Nyc Porth Nyc Nyc Porth Nyc Porth N	recharge time (EVX214 and EVX215 only): 1 mm temporary temporary and/wgod by the minument, power kateries: query request in EVX201 and (MO20), itsultion for (M214, EVX205 and EVX215 models for M22 proce in measure impacts: 1 graf probe and invacouter probe for protein and EVX205 additional experiment in the experiment of experiments (itsue) in the experiment of the experimentary instant or M22 probes for M22 probe and EVX205 addition impacts: 1 block models for M22 probe and EVX205 addition inpacts: 1 block models for M22 probe and EVX205 addition inpacts: 1 block models inpacts: 2 or other manufacture of the restrict (itser instance) with the experimentary instant in the experimentary states (the expected of the experimentary operations) states (the expression multiple control for more addition operations) states (the expression of the restrict) (itser instance) with the expression multiple control for more addition operations) states (the expression of the restrict) (itser instance) with the expression multiple control for more addition operations) states (the expression of the restrict) (its A ms. 8 250 VCA (secondary operations) and minute of 200 VCA upon requests atomain listed control is in the A of digital outputs: 5 relay: • compression relay: (its A ms. 8 250 VCA (secondary operation) add minute of 200 VCA upon request addition outputs: 5 relay: • compression relay: (its A ms. 8 250 VCA (secondary operation) add minute operation (its a ms. add minute operation) • compression relay: (its A ms. 8 250 VCA (secondary operation) add minute operation (its a ms. add minute operation) add minute operation (its a ms. add minute operation) add minute of the relay (its a ms. add minute operation) add minute of the relay (its a ms. add minute of the relay (its

PIZTOP **GEORG DEUTSCHLE STR: 70** 73730 Esslingen. Tel. ++49 0 71537505025 E-mail: info@piztop.de

r probe smar (but EVXD01)	EVX204 and EVX214 digital outputs it misst
a fire overwellen) class hat with respect to the	compressor relay: 30 A vis. 8 250 VCA teamate open contain
to probe	+ defresting relays 0 Ares. 0 250 VCA
requerters: eter F3 is set to 1, the defending period will bet	JosePunge contacts • evaporator fan relave 6.4.44, @ 250
mout of time set with parameters 3	VCA promuly open contexts
eter #3 is set to Land pecervery dil is set to 2 or	fourth output relays from 0.4 res. 0
and the set official as a frequencial resident	The maximum load current allowed is 16 A.
eter F0 is set to 3 or 4, the instrument will operate	EVX205 and EVX215 digital outputs: 5 minute
payameter were set to 2 to pupple will be arithmed provided that paramy	 Compressor relays 20 A tris. III 250 VCA stormally open contact
and/or parameter ultill is later to 10	· defrosting relays II Ann. IP 250 VCA
r prote entir (EVIQ04, EVIQ14, EVIQ05 and	iestnange contacti
	VCA promitly open condicit
A the preceding call but with respect to the	 fourth output relay: forn BArrs, iff
estimation.	fifth output relay: that 5 A rs. 0
er overheated alarm (cole: COH) will not be	250 VCA (normally open contact)
particular in condemar involution daries	The maximum load current allowed is 16 A. Secial parts and for correct and the second parts and
Sd) will rever be activated	anial interface, via TTL, with a MODBLS communications protocol; (v
to pupped with be activated (provided that peram-	ins techniciand rek
ener uit and/or parameter uit I is set to 4, the	
er fan wit operate in parallel with the condensar	
s lines of each constrained	
e day and heat time	
sequences: ever dB a lart to 4, the extrainent will consiste as	
cameter assess set to 0	
CP function will not provide information regards	
gy Swing function will not be available in real	
and/or parameter ull'i is set to /t	
of cased the alare its geans, the minument	
paret, with the date and hour be left	
DATA	
lata	
gradel IP 00.	
nen Saton connectors (0.248 an, power and	
Abure: from.0 to 55 °C (from 32 to 131 °C 10	
y without condematorij	
ck data in the absence of power (EVX214	
E 24 hr Ally-charged balleny.	
time (EVX214 and EVX215 only): 2 mm he battery is an harged by the minument second	
on request in EVO201 and EVO203, dual-in-tar- ICO5 and EVO215	
nputer I was priced for NEC probe	
inputse 2 just probe and evaporator probet for	
EVX205 and EVX215 measure inputs: 3	
is probe and condenses protes for MRC probe	
normally closed contact ther contact.	
EVA205 and EVX215 digital inputs 7 no multilucition for normalic commonwise	
ancact, 5 V E mAj.	
B. Rove 40 to 105 °C (Rove 40 to 220 %) 1 °C (19 %)	
Ipeta: Entity	
-compressor relay: 16 Arm. @ 252.	

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12	wor	CINC -	TROUBT	AND CON	EXCLUSION AND	DON PAR	AMETER	
12.1	Work	ing set	point	AND CON	- House and	ALINE FRAME	AMETER	
	(MPV	MAC	UM	109201	1510203	100204/5	0002142	Lackere stations
12.2	Conti	37	LOAD1	1.1	1.4.4	1-18.0	-18.0	Sectors around an and
NO.	INN:	(1644)	LIM	5 8990061	1010203	210206/3	inverse.	Lucians stront
۰.	11	12.	1079 (1)	2.6	2.0	118.02	18.0	wareng urport we ato ri
CAL.	AMPL:	10.0	UM	EVAPE	15/62/63	EV(204/5	010214/	MADURADE PRUT
AZ.	25.0	11.0	PG/PT III	COLUMNE.	8.0	0.0	0.0	When evaluation protein
(A)	18.0	25.0	90% (I)	PUX (ALM	Peter device	0.8	0.0	ofter condense prote
7	3	1		1		1.1		Crisus degree decrinal point (for sale displayed during memal operations)
68	1	100	1000	6		1.0	- 0	1 = 112 temperature use of monutement UI
								0 = "C
_	-		_					14 Y
	8 i i	7 · · ·	11	103.008	1.11	1.5	1.2	Propositur properturctori Di a prote altarri
								1 + setosing prote and prote for exposure las transmission
								2 e prite la expose fai henocatulari
	2.1	1		ng aal	THEY ARAM		- 1	enating of continue prote
na -	10	150	10.	5	1.5	- 5	.5	aldow in display of variations in programming detected by the proces
MR.	MNN.	NOV	-UM	100001	Ev90203	IVQUA.	010214	AMMA RECORDER
10	0.1	15.0	10/11	20	.20.	3.0	2.0	working import dramate
-	100.0	firs-	202410	50.0	-50.0 Galle	-50.0	-50.0	International working argument
0	0	1	111	1.000	6	1	10	adding of writing separa satisation using the procedure described in purspeak 5.2
	1						-	(+)(1)
4	10.0	79.0	*C/*F (1)	FOR JAVA	FOR JHOR	0.0	0.0	Second in Ampendian during Energy Swing Rations, we also 6, 210, 1821 and 1822
-	10.0	140	-Coa (1)	0.9	0.0	0.0	0.0	decense in terpeniture during Overcosing function, ser also M
0	lo it	199.0	1029101	red mail	10.8	18.0	10.0	memory difference for temperature - working separate juries are manument tolethes are such as to possible the exclusion of the
			1.10					consequent value of the evapoxies temperature among the ones used for the calculation of the rotated average for the defect activation
_	-	-						only if all + 3), also look at di T (3)
COLUMN ST	pare.	740	1.00	AVA201	104203	TACOPO -	0,002140	COMPENSION PROTECTION SYSTEM
1	6	240	riun	5	5	5	1.5	ato delay e compresor stativo atte conclusion al cel prote error sode (741 1.14) fic
07	0	240	19414	×	3.	1.1	1.3	melenum duotion of compressor switch of sine (4)
Ch .	0	240	MPL .	Û.	0	1	0	memun dation of comprises which on site
04	12	1740	Angel I	10	10	10	10	shappen of compression sample of sharing out prote more pasts TVT ; see also CS
Ch .	10.0.	1199.0	50910	reit anial	Incit Journal	80.0	60.2	condimier temperature is include that that which the conditioner twelvesting starts is assumed code COM : its
CF T	6.0	199.0	10/9/11	that Auto	122.000	40.0	99.0	condeniar temperature is higher than the limit at which the compresser blocked alarm is activated poster (Gel)
08	0	15	1993	not auxi	113.000	1	- F.,	compressor starm (kiny looked (coder (CSIG) (7)
C18	10	1.000	10	rest auxi			1.5	number of operating hours is higher than the senil at which the need for mantenance is signated
INE .	THEN.	MM.	04	BYRDEF	196205	UK264	1100110	(D000STMG
÷1.	0	199	P.C .					if off + 0, 1 or 2, deboard enough
								0 = interval definiting and never he adjusted
	0	6	1	1127-04-04	0		0	a lat h s materiori printe monal
								0 + ELECTOR - during definiting the compressed will remain of and the definiting output will be activated, expositor fair activity or
								organd on parameter F2
								1 • EUED (25 - during defauling the compress) will be wait their an and the defauling output will be advalued, insponent for white will depend on business (2).
								2 - WASDOMME OF COMMENSER - surroy definitions the compressor will remain subtrated off and the definitions supplies will remain
			1000	72.4-2-2-2	1000			disactivated, evaporator fan activity will depend on parameter 72
62	199.0	111.0	104F01	not avail	1.0	24	-2.0	temperature at and of defeating (any EF3 + 1), see also d3
19 ·	1	199.	man .	30	. 34	10	. 30	se F3 = 5 or 2, demotes automotion
								0 = defeating wit not be admitted .
14	0	1	1+++4	11			- 0	definiting when instrument is availabled on party if all = 0, 1, 7 or 30 (10)
_	L	-	-	-		-	1.	
	1	17	-		1.50	1.1		or of e.g. revenues one between unique que or ensurement and advances or demoting, we also in the of 64 + 1, datas in advances of deforming after instrument is supported on , see also it th
ité.	10.00	1		1		1.1	1	temperature alegiayool duong definiting
								E = OE antenare
								1 • F at the time of deficiting activation, the onlitemperature is lower than the "working sequent + 10", at most "working
								inform + dy, it at the time of definiting activation, the cell temperature in higher than the "working segurit + rit" at most the cell temperature when definition is articulard
41	0	18	-	rice musi	2.	2	1	droping duration sturing droping the compressor will remain swetched off and the dehosing output will remain disactivities.
	· · · · ·	1			1.0	1.5		at 5 × 0, evaporator for activity will depend on parameter F2; if at 6 × 0, the evaporator for will remain switched off
28	P	1.1)+++i					deficient actuation methods
								In a <u>ACTING A</u> - definition will be activated only the instruments for all optimized and in the data of a set of the content of the content of the all optimized and the activated only in the all optimized and the activated only in the all optimized and the all optimized and the all optimized and the activated only in the activated on the all optimized and the all optimized and the activated on the activated on the all optimized and the activated on the all optimized and the all optimized and the activated on the activated on the activated on the activated on the all optimized and the activated on the activated on the activated on the activated and the activated and the activated on the acti
								2 = At ACTINACE - definition and be activated ince the evaporator temperature for altogether been below temperature dt for time dt
								plate is (VX93, EX904, EX914, EX905 and EX915 (reg (10)
								3 + <u>ADM/SAEX</u> - detroding will be advanted when one of the following conditions a greater (value in EV/20). EV/2014. EV/218 EV/218.
								- condition 1. The evaporation immonistrate will be below immonistrate d22 and the compression will attractive for
								switched on for imm dtB
								 conditat 2. the evipolotic temperature will fill better temperature d/8
	1.00	1	1400		1			4 + INREALISM - onhouring will be achieved as the tenso established in parameters (HD) - (HD) (HDP in EX214 and EVX215 only)
111	199.0	94.0	JOAR HI	not push	0.0	0.5	0.0	invaporation temperature to higher than that at which the definit interval counter is suspended ponly if dif = 2)
	1	1		THE OWNER		1.000		and a spent of an exposure pole (side TN2)
							_	1 + 193
	10	199	1000	rict multi	0		0	reviewant tene that the compressor must be saticfied an before althoung can be actualed (anty if of a 1) (1)
115	14			and the second s				state and state

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017	£	8.0	A a day of	TOX ALM	1	14	14	Pruntee of explosion temperature values used for the calculation of the relative werkage (for the definid activities), only if dil + 31, also loc (in cf. col. and cf.)
818	0	3.000	(94)	rice aunt	40	40	40	at to, of and tiz defroang interval jony if all = 1 and for condition 1)
219	0.0	40.0	10/110	THE AVAIL	3.0	1.0	1.0	0 = defeating for condition 1 will rever be activitied evopositor temperature above which the defeat is activitied pulsave to the evopositior temperatures average, or "evoposition temperature
110	-	500	inin.	Vice aug	180	180	180	average - d(P) (only if all + 3 and for condition 2; also tax at d(7) memory provides the the company or that he watched on such as to provide the defroit activation
	-	1.00		100711	300			0 = the deficit will rever be activated because the compressor hill been switched on
<u>.</u>	2	100		113.000	100			impersant control working stipping, is higher temperature 17, and after function Compliciting is adjusted such as to provide the debu- activation
22	6.0	10.0	10410	nor avail	.20	2.0	2.0	(0 + the default will even be activated insular the compression has been autohed on evaporator temperature alone which the default prevails is appointed prevails to the evaporator temperature) average, or "suppose temperature, average + 427" (only if 48 +) and for condition (), also take at 01.
(7) Mar	D O MEN	20.0	2(797(11)	FOR June	1.11	1.0	1.0	Inoperator temperatures werage increase during function Energy Saving for definit activators, only if (III + 1), also look at 417 Concentrations account
A.0	0	1		rick during	0		0	temperature associated with the minimum temperature while (code [AL])
			engan.		10000			0 + citi temperature 1 + exeptostar temperature (12)
AI .	-99.0	44.0	dowini	-10.0	+10.0	10.0	10.0	temperature telow that all which the memory impactation alarm is actuated (total: AL), see also AC AV and ATT
ne -		1						0 = sizer short
					-	-		1.4 intervents working separat (hit is "writing antports - AT"; (privater AT without app) 2.4 intervents (hit is AT)
A.8	99.0	199.0	40/4111	10.0	10.0	10.0	10.0	semperature higher than that at which the maximum semperature ulern is actualled goods (AH), see also A) and A11 been of maximum semiconary source (AH).
201	r	Ê		1.1	1.1	10.		D + starristane
								1 = interve to working separat (that is "working separati + A4", consider A2 workinal sign) 2 = absorbe (that is A4)
44	0	240	anite -	120	130	120	120	delay in maximum temperature asimi loade (AMI) after the implanent a switched on [3]
N8	6	240	ones .	15	15	15	15	imperature same analy price AL and cose AH (along in maintain emperature same joode AH) following the conclusion of deficianty (in \$2020) unity and following the concluse
	-	240	Venda .	15	15	15	10.	of expositor tan in EV2011 EV204. EV214. EV205 and EV2015 only (11) Table of expositor to proceeding dama loads 2441 Educates the discriminant of the own detrimation and (14).
A10	0	240	(994)	FICE ON SH	FOC (Hold	POL public	1.1	duation of interruption in the power supply that occurs when the minutent has been summing for long enough to cruce the stronge
611	0.7	25.0	N/WIT	2.0	7.0	2.0	.2.0	the power interruption alone when the power supply is induced, looke PPT (11) differential of parameters Aland Ak
A12	0	2	1111	rict and	rict deal	NOT ALL !!	1.1	kind of signal for power interruption align grade (#F); and lock at A10
		1						I a the duting will show the code TF finishing and the buzzer will be activated.
								2 + the display and show the code TV* failuring and the busines will be activated (this last on condition that the power memorybian durate is facilities that some ALO.
WR.	MIN	APR.	UM.	EV9(201	EV9203	56204/5	632167	(ENVOIDOR FAN
÷.,	e .	¥. –		rer aust	1	1.1	1	anapostor fan activity during normal aposton It e lavorheit off
								1 = twitthed on, see also ETD, ETA and ID
								(1 + in parallel with the compression we also PV, P1), P14 and P10 (1 + dependent on P1 (R4)
								4 • switched of if the compression is switched ulf, dopendent on 61 if the compression is switched on, see also P9 [16] a dopendent on 54, one disk P8
1	.99.0	44.0	10/11/11	rice should	1.0	1.0	1.0	inoporator temperature above the limit at which the evaporator fan is switched off, goly 410 + 3 or 41, we also Fill
Q.).	0.	<i>x</i> .	the state	vice and		- P		evaporator bin activity during deficiency and dripping (b = switched off
								I = livetified on particip parameter d/2 to 0 is recommended)
11	0	15	19521	107.0498	.2		- 2	2.4 approximation relation of exposition for disections on, see also 17 planning everyonizer for disactivation the complexitor can be switched or maintum duration of exposition for disections on, see also 17 planning everyonizer for disactivation the complexitor can be switched or planning.
14	0	240	MC	FILE JALIE	40	8.0	8.0	the advoting output will remain disclosed and the evaporator for will remain switched offi- time duration that evaporator fair is switched off during operation for a low percentage of resalve humidity when the compression
			1	0.0		10	10	southest (if, see also PS party 170 = 5)
20		240	HIC	PICK dwine.		. 10	. 10 .	since duration that evaporation for a swetched on during operation for a tax percentage of readese humidity when the competition swetched off, size and F4 party #10 + 5)
14		1		TKP, AUM	.0		0	isponses for size or high percentage of names foundary long if $P0 + S_1(17)$ 0 = LCM (ELASSE HANKET) - the exponential for well operate in panelist with the compression size into PA and PS $1 = HEPA (ELASSE HANKET)$ - the exponence for well asses for search read on
1	199.0	44.0	107910	FOR (HOM	5.0	5.11	3.0	emporator temperature below limit at which the evaporator family disactivened below to working supports, that is "working supports + F7
8.	0.1	15.0	10/9/11	not avail	.2.0	2.8	2.8	per encra parameter Platfeneritat
2	0	240	10C	FTOE JACRE	FIGE (MOR)	0	0	doory in the swedning off of exponence fair following the swedning off of the compressor party if 10 + 3, 4 and 5, completions interesting as about this is when the compress has a swedning off of the compressor party if 10 + 3, 4 and 5, 10 M / 10
	<u> </u>		- The					the compressor is swothed only see also F12 (18)
FTT FTT	8	240	10K	FICE paint	nor avail.	10	30	only in switching of of the condensit has following the switching of of the condensit: pinty if un and/or unit = b); see also E11 little the evapolation has remain function of auring Auricean Energy Saving, see also E14 and 10 acrily EE6 = 1 or 21
118	0	240.	17501	TOX deal	.5	5	5	time the evaporation for remains surred on during function Energy Swing, see also F13 and i10 long if 10 + 1 or 20
W.	MAN	MMK	11M	100201	EV9(203	nacious	EVICINA	All and the structure of the data decrements poor we decrement
2.1	P	<u> </u>		-	25	1.1	10	0 + no effect
			<u> </u>					1 • the compression and evaporation for approximation in the EVACULE EVACULE, EVACULE and EVACULE a
								2 = the exapositor fam will be switched will be most for time 3 or until the reput is structivated) (visible wit VV203, IVV204, IVV214, IVV
								3 + the call tight will be sweeted on jurity if ull analyse ull + 0, unit the signal is disclosed jointy uside in EVOD4, EVOD4, EVOD4, EVOD4
								and EV/CI15 4 + the comprison and exoposition has well be switched off an most for time () or unit the most is disclosional and the cell later with
								switched on gray if all and/or all 1 = 0, and the right is disablened joiny visite in (VX294, EVX214, EVX214, EVX215) (IT
								IT a the evaluator fair will be sublished off or most until time if or until the ansat has been disactivated, and the ord both sublished and the sublished
								on jorly if ull and/or ull i + 8, until the input a disactivents long visible in 0X004, 0X014, 0X005 and 0X0215

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12	1	120	-	- 15	780	15	- 16	Insurance) duration of the effect stated by advances at the door microwalch on the compressor and the evaporator for the evapor
14	9	1.1	1.1.1.1			3.0		sharage of door microsofth equivalent (only 50) (20) 1 - 305
tă .	0	8	hand d	ript anial	POR DAVA	3		effect caused by the activation of the Hubblandson reput 8 + ho effect. 1 + SACHENGATION OF DETECTING REPORT - once time of her parsed definition will be activated 2 + ACTIVATION OF DETECTION TABLECTION - the Energy Living function will be estimated (until the reput is deschoold, provided the Overrooking Autoion is surviving see also H 3 + ACTIVATION OF MATERIANCION (MEDICAL) AND - once time of this passed the digate will show the flowing code VA and the later
								We be Advanced provide the traduction of accession of the compression will be available of it will analyze unit an entropy of the analyze of the condensation of th
15	0	1		reg must	nor pue	0.0	4	gge of multivision input contact 8 = formuly gen justive reput with closed contact
iP	6	120	-	rog-mati	152.014	- 0		I is coming install prove typic with open control if S × 1, multi-install input uters (only poole (A))
	1	16		101.000	100 000	1		2.5 = 8. desy is compriser switching on whet the disactivation of the multifunction equal (21) memory of multi-action more alastic track. 14 , 1 and 10 (and a pressure multi-action result (24) of the 4.
	<u> </u>	Ľ.,						E + Just Jours
11.0	1	111	-	POR anali	0	9	0	The this pair is always of multiplesco cultural atom pixes \mathbf{A}^{1} to the the atom curves is that pixely $A > 0$ there where a shorters of the above set in pixel (or is conduct that the curves curves are neared the working region) is only that shorters of the above set in pixel (or is conduct) at the effect on the evences to only if $P_{0} = 1$ or 2
01	0	240	8	002 .man.	18	15	35	memory time the door taktor input must be activated such as to provide the textures of the conveguent value of the exaposition temperature among the ones used for the consultant of the relative average the the definit activation; only if off = 31, and out at 0.1
μŷ	ľ	240	h	101.000	. 49		40	reserver one the door solution input must be advanted attograther such as to provide the exclusion of the community data of the majorized strangenistics among the rene used for the calculation of the value average (for the dataset activation or Vy F d) = 3; and too at d17.
03	0	240		PLF and	180	180	180	number of door switch reput activations such as to provide the definit activation
14	0	240	1940	nce muni	32	- 12	-74	If a method we retrieve the advances introduce on a solid sector made advances of the door sector method advances of t
NRC .	LOV.	LOAN	LOUI	EV(8251	100203	1/004/5	SVIG 143	DOTA OUTUR
								If a COLLEGE: In the Case the ADDELANT by and parameters is and so we be admined
1.7	0	1		PER AUX	103.3438	.0	4	evolving of manual sector and vector off of the cell light or the auxiliary output when the morument is sectored of $gaig = 10^{-1}$ and $gaig = 1$, $gaig = 1$, $gaig = 1$, $gaig = 10^{-1}$.
-	1	1		reg auni	POT INVA	10	1	envelope of assemination output abactivities with the stancing of the bacter party if of antifor of (1 = 3) (1 = 10).
2	148.0	120	ACAN (II)	not mail	TOT ANN	-1.0	11.0	reli semperature belav that ar which the door resistors are switched on (SG-2.8 °C/4 %) only if unland/or unli is 4(3)) presistors one of demonstration and/or unli is 10
1	2.0	110	ACAA HI	reg most	107.000	2.6	2.0	Tell integration of the second second term in the second second prime g is the second seco
1.8				POL MUR	FOX 2404			Stee of evolution some context and/ if wit and/or with 4 St. If a nontrady open justice with context closest
171	D.	1	1111	1	1.0.1	+	1	1 + manneny costo pomeranse with contact uppro envisiong of location
		-	1	ret.mm	100 2020	-	-	I = YES appropriate the IRM status (22)
								EVELUSE: - In this case the AUXOLIARY way and parameters if and u2 will be adjusted EVELUSE: IntEGIDE: In this case the AUXOLIARY way and government u2 will be adjusted AUXOLIAR DEDUCE: In this case the AUXOLIARY way and government u2 will be adjusted AUXOLIAR DEDUCE: In this case the AUXOLIARY way and government u2 will be adjusted AUXOLIAR DEDUCE: In this case parameter w1 will be adjusted AUXOLIAR DEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 will be adjusted SUMDEDUCE: In this case parameter w1 w1 will be adjusted SUMDEDUCE: In this case parameter w1
INC.	Addy.	6044	LIM	EV9C81	(V026)	00.00	NVX214/1	CARRY WANT A REA THE
111.7	00 00	21.59	for start	OUR muni-	102,000	00.00	00.00	duration of the Energy Lawry on real size function, we are related in 1911
Mar .	MEN.	NOAK.	LIM!	898261 007.4438	Process not pass	14/04/1	IVX.214/1	DEPENDING IN BOA. THAT mine of activation of first definiting period in real time (pring if d) + 4).
14.02	00.00	28.39	Try part	rice animal	FOR JACK			 In the delicating in real time will not be accurately time of accurate or accurate delivating period in real time period of 201 = 10
1101	00.00	21.39	In mire	POR mail	*SE 20/8	10.000	1.100	 It is second definiting an real inter will not be activated, time of actuation of their definiting period annual time party if all + 4.
10.04	100.000	11110	An aver	100 000	And in Lat			
	1	1						a the fourth deficiency is and line will not be activated
1665	100.00	23.59	ALC: THEY	not mail	POR JAVAR	++ ++ ;		temp of accuracy of Mm dehydoing period in real time party if dB + 4)
nds.	00.04	21.54	A.M. 20027	not mail	-sor and	12	1000	time of actuation of wath defouring period in real time print of all = 10
INC.	MIN.	ADAR	LIM	1996261	IVAU61	110065	IVAL INT	SIBN MITHOR MODELS
18	10	3		7	247	1	1	(and the 0 + 2.400 band, 1 + 4.000 band, 2 + 1.000 band, 3 + 19.200 band)
-								

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Evon 1.p.A. + Code: 1040201E314 + page 8/8

- (1) the unit of measurement depends on F2
- (2) Property set the parameters corresponding to the regulation, after modifying parameter P2 (b) the parameter has effect over after an energytion in the power supply the occurs while the instrument is satisfied on
- (ii) the time included with the parameter a counted own when the instrument is switched off (b) If parameter CF is set to 0. The delay after the ond of the cot probe arror will be 2 new ter parameter differential is 2.0 °C/4.71

- The processor operation of the solution of the conserved temperature sciences are exceeded in parameter CT. Pre-parameter CT will not have effect
 The instrument specific and the conserved temperature sciences are exceeded and the presented of the presented presence of tolowing the activation of manual admissing.
 The adjusty mumit to normal operation when, at the end of admissing (2000) long) or at the end of temperature fails
 the adjusty mumit to normal operation when, at the end of admissing (2000) long) or at the end of exact one parameter of VACD1, 1XAOD4, EAD114, EXAC05, and EXAC15, ong, the roll temperature fails
- before that at which the display was initially blocked par if a temperature atom is separately (19) if parameter P3 is set to 6 or 2, the evaluation with function as if parameter all were set to 1
- (1) Evaluation definition of a constant, the operating duration of the compensation is for their endeblowed with parameter (5), the compensation duration of the annual of time reconstry to competitive definit (12). Epidemeter (2) and the true of the annual of time reconstry to competitive definit (12). Epidemeter (2) and the true of the annual of time reconstry to competitive definit (12). Epidemeter (2) and the true of the annual of time reconstry to competitive definit (12). Epidemeter (2) and depiding and when the response of the sempreture aleres are about an about the depide and depide and when the response time is toget, the temperature aleres are about an about the depide and the time exclusion of definitions).

- (14) during extension of the oper microsolith reput, the maximum temperature alarm is attaint; provided the alarm was signaled after the activation of the reput (15) when power is restored, the alarm wall always be signated (16) if garanese (1) is set to 0; the instrument will function and parameter F0 were set to 2.
- (17) the parameter can also be motified using the protockers decorded in paragraph 4.8 (16) if parameter PLs set to 0, the condenser for will function in parallel with the compressor.
- (1%) the compression is subclead aff. (1) sec, after the activation of the impact of the impact of activated attempt definition or when the examples of the activated attempt definition of the impact of the impact of activated attempt definition of the impact of the impact of activated attempt definition of the impact of the impact of activated attempt definition of the impact of the impact of activated attempt definition of the impact of the impact of activated attempt definition of the impact of the (21) the instrument storm the idem once the time established in parameter (2 his express, 2 parameter (2 hi ant 15 h), the instrument will not store the olivin (21), make sum that the time established with parameter (2 his start that institution with parameter (2

- (22) Is avoid damaging the unit corrected to the insummer, change the parameter withing when the instrument is switched off.
 (23) If parameter u2 is set to 0, weblinding off the instrument may cause the cell light and/or the auxiliary output to write the instrument is switched on the unit corrected will remain switched off;
 Figuraneter u2 is set to 1, weblinding off the instrument will not cause the cell light and/or the auxiliary output to switch off the not-set the the instrument is switched on the unit corrected will remain switched on; ELECTING CONNECTION

- 13 ELECTRIC CONNECTION 13.1 Preliminary notes With reference to the electrical wring diagram
- the unit connected to and opened by the fourth outprintegerids or parameter ull (20204, 0x8214, 0x8215 and 0x8215 ang).
 the unit connected to and opened by the Mit outpridgerids on parameter ull (20205 and 0x8215 ang).
- . The server part is the overlap overlap and the resolution overlap when an server we fits. MCORUL comnuncipions protocol or by programming key . the politimus not be used for two different purposes

13.2 EVX201 electrical wiring



· he information about the maname reand repairs contact a member of the lives uses network

INCO Lo B

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and functioned in Factor carried only and additional factories and can have reaching the size

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EVX





EVX il una serie di controllori digitali studisti per la gestione di armadi refrigerati a temperatura. nale o a bassa tamperatura integrabili sia meccanicamente che estaticamente nell'avità. Irie è composta da 6 vanamenti EVX201, EVX203, EVX204, EVX214, EVX205 ed EVX215. EVX201 dispone di:

- Las expose o: L'agressa analogico (sonda cella) per uonde NTC L'agressa digitale (micro porta) L'unita digitale (mèle electronneccanica) de 16 A res. (§ 230 VAC per la gestione del compressore/i o britamenta avviene per fermata del compressore perte servie con protocollo di comunicazione MODBUS.
- EVX203 dispone di:

- 21 regressi anologici (senda cella e conda evaporacore) per sonde NTC 1 regressi adigitale (micro porta) 3 usote digitale (micro porta) compressore e 2 da 8A res. (§ 250%C per la greciore della dell'emportore, la drimamento può essere di spo stettino-porta senale con prosocolto di comunicazione MODBUS rico o a gas caldo.
- EVXQ94.EVXQ14.EVXQ05 ed EVXQ15 dispongono di orologio (solo ne/TEVXQ14 e nelTEVXQ15)
- butter il allarme
- Jogene a sistema J ingressi adolgoti (sovila cella sonda evaportatore e sunda condensatore) per sonde NTC 2 ingressi adolgoti (sovila cella sonda evaportatore e sunda condensatore) per sonde NTC 3 usoto digrali (niero porta e maltifunzione) 5 usoto digrali (niero porta e maltifunzione) 5 usoto digrali (nieli elemennoccanic), 4 nal'EVX204 e nal'EVX214) di cui 1 di 30 A rec. (d) 250 VAC per la gestione dei compressone e 4 da BA rec. (d) 250 VAC per la gestione dello solvinamento, del vendiacore dell'esoportatore, di una quatta utoras (impostabile per luice della colla, resisterae antiappaneamento, usota avallaria, usoto di allarme, restetenze della porta, valvola dell'esporatore o venillatare dal condustantore) e di una questa utareza (quest'ultore solo nell'EVX205, nell'EVX215 e impostable alto stetato

modo della querta): la iliminumento può essere di spo elettrico o a gas caldo porta santale con protocollo di comunicazione MODBUS. I depositivi si presentano in scheda a giorno, per la completa integrazione metcanica ed estetica

l'asponitivi la presentano in scheda a giorno, per la compresi reagrazione meccaneza de anotesi e dal armadia. Therefricio a vestera e composenta di un displar centron da 4 digit (con none funcione) e da 6 tasti (ves, up down, ubrinamento, huo cella e en/stand-by). L'instituzione è previeta a retro panotefo, con vio prégonare MD. Attraverso fonsiogo è possibile programment fino a 4 o ravi giornalieri di attivizione dello informamento a 1 orario giornaliero di attivizione della funzione "Energy Saving" i la funzione "Energy" Saving" viene attivita anche sustematicamento, in assenza di attivizione dell'informatica energia contacti di attivizione della funzione, in assenza di attivizione

dell'ingresso in funzione "HACCEP" è possibile memoritative fino a 9 eventi (il leggli strustenti astras orbogio) per ognuno dei 4 alterni HACCEP (alturne di congentazia di visiona, alturne di comperatura di materina, altarene ingresso micro porta e alturne internutione dell'almentazione, quasi ultimo edo negli trummeti con orbogio) per ogni alturne HACCEP e possibili memoritatari il valore orbico, la data e l'ora in cui l'alterne ti è manifestato (queste dell'almentazione, quasi una contecco la data e l'ora in cui l'alterne ti è manifestato (queste

ultime due sola negli atrumenti con onologini) e la durata. Attravento la chiave di programmazione EVICIY (da ordinare separatamente) il possibile nenguine l'upload e il download dei parametri di configurazione.

exegure repose e a conversión de parametri o configurations. Attrivertos ambientíficos exercite (la configuración de la configuración e la configuración de la config

- connectione directs del carichi (salvo la guinta utenza)
- gestione so dot liveB dell'allarme condensatore surviscaldate memoriptazione dell'intervallo di abrisumento
- persone admittiva della shrivamento (l'intervalla di shrivamento è di volta in volta fampione delle condizioni dell'emporatore, attravento il continuo campionimento della sua

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alligione a retro pannollo, con viti priposere H3 e con frontala admino in polieziere l' dator ly back panel with M3 threaded such and with polyezer admine evenity.



EVX is a series of digital controllers for normal temperature or law tempe stars withward or were their can be integrated both mechanically and aesthetically in the unit. The series consists of 4 instruments EVX201, EVX201, EVX204, EVX214, EVX203 and EVX213.

- EVX201 has pit
- I analog input (calinot probe) for NTC probes I digital input (door switch) are: 16 ms. A. (): 250 VAC digital surgest (electronechanical relay) for the compressor management, the definit is allowed stupping the compressor seriel port with MODBUS communication protocol
- EVXID her pit:
- 2 analog inputs (cobinet prode and evaporator probe) for NTC probes I digital input (door switch)
- 3 digital inspires (electromechanical relays) of which one 18 res.A @ 25010C misy for the compressor management and two 8 res. A () 210 WG rolays for definit and esoperanet, the definit can be electric or by hot gas serial part with MODBUS communication protocol
- EVX264.EVX214.EVX205 and EVX215 have
- real time clock (only in EVX214 and EVX215)
- stave burner
- 3 unalog inputs (cabinet pride, exeptionar pride and conditional pride) for NTC probes
- 3 Intelligrephic constraint preservations preservation to constraints preservation of the second sec 210 VAC relay for the compressor monogeneest and four 8 nm. A (2) 210 VAC relays for defour, evoporator for, load # 4 management (programmable as cabinet light, demoting hoster, auxiliary autput, alarm autput, door heater, teoporatia valve un condenser forg and load # 5 management (this lost unity in EVX205, EVX215 and programmable just like load # 4g the default can be electric or by help in unital part with MODBUS communication protocol.

The devices look in open frame board for the full mechanical and anothetics integration in the column; the user interfloce is mode of a 4 digits custom display (with function icores) and 8 builtans (ort, up, devic, definist, cohinet light and anistand ball

definition to develope the set of an interaction of the set of the these key two poly is the instruments with real time clock) and the duration

Torough the programming key EWEP (to order separately) it is possible to make the upload and the download of the configuration parameters.

Through a senial interface (to order separately) it is also passible to connect the controller to the set-op. sufficience system Parameters Manager, to the plants manitoring and supprovision and RES or to the docks for the data recording, for the recorded data download (via USB) and for the uplicad and the download of configuration parameters EVUSBRECGY (via FT1, with MODBLS communication protocol). Among the shored features one also Aphilytes direct loads correction (but load if 5)

- swerheated cardiorast aliants management as two levels deficial interval staring
- adaptative management of the definat (the definat in val is from time to time function of the evolution conditions, through the continuous sampling of its temperature) temperature oforms management competator working boost causter

- low or high relative humidity percentage operation
- function"overcooling"

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Modelli disponibili / Available models

Controllori digitali per armadi frigoriferi statici i Digital consullers for normal temperature refrigenzed cobinets.

Codice / Code	Caratteristicke principal/ Mon Senare
EVX201N7	Lascka digitale (mile electromeccanico) du 16 A res. (2) 250 VAC per la gastione del compressore. I ingresso analogico (sonda cella) per sonde NTC, alimentazione 200 VAC, porta sertale TTL con protocolo di comunicazione MOCBUS / One 16 res. A (2) 250 VAC digital ovgrut infectionechanical relayi for the compressor management, ronding input (colorest protec) for NTC probes, power copply 230 VAC, TTL serial pert with MODBUS communication protocol
EVX201N7FXB	I vocita digitale (relie elettromectanico) da 16 A res. (2) 250 VAC per la gratione del compressore. I legratuo analogico (sonda cella) per sonde NTC, alimentatione 200 VAC, buzzer di allarme, porta seriale TTL con protocollo di comunicazione MODBLE / One 16 res. A (2) 250 VAC digital susput (electromechanical nella) for the compressor management, I analigi input (cabinet probe) for NTC probes, power supply 230 VAC, alarm bozzer/TL serial part with MODBLE comunicazion protocol

Controllori digitali per armudi Sigoriferi venstati / Digital controllers for low temperature refrigerated cabinets.

Codice / Cole	Caratteristiche principali / Main (intern
EVX203N7	3 sactor digitali (relik electromectanic) da 16 A res. 🕃 230 VAC per la gestione del compressore, 1 ingresso analogico (sonda cella) per sonde NTC, almentazione 230 VAC, porta sariale TTL con protocollo di comunicazione MODBUS / 2 digital octuto infectorenechonical relagui al'alch are 78 mil. All: 150 VAC relagi far de compresso management; 2 analogi reputo (cabinet probe and excpantite probe) for NTC protect, pover supply 230 VAC.TTL arris/port with MODBUS communication protocol
EVX203N7FX8	3 sector (ligital (rai) elementercuric) da 16.4 res. 250 WAC per la gestione del compressore. I mgresso analogico (sonda cella) per sonde NTC, almentazione 230/04C, bazzer di alterne, porta seriale TTL con protocolo di comunicazione MODBUS / 3 dgital output (riscramechanical relay) el which see 16 res.4 (§ 250/04C relay for the congressor monogenent, 2 analigi rigioni (coltraris probe and exposoror probe) for NTC protect, power supply 230/04C, diare bazzer, TTL verial port with MODBUS camminication protocol.
EVX204N7	4 secte digital (relis electronisectarics) di cui 1 da 30.4 res. (2) 250 VAC per la grestione del compressione, 3 ingressi analogici (sonda cella, sonda eveporatore e sonda conductario) per sonde NTC, almentazione 200 VAC, buzzer di allerne, porta seriale TTL con protocollo di comunicazione MODBLS / 4 debiti sondari (olectarenechanical relay) of which are 30 mil. A (2) 250 VAC for the compression management, 3 analogi inputs (cabinet prote, responsible prote and conductor protect) for NTC protect poster supply 230 VAC, donn buzzer/TE tensificant with MODBUS communication protocol.
EVX114N7	Orologio, 4 unite digital (rele elemenonoccarici) di cui 1 da 30A res. (2) 2004/C per la gascione del compressore. 3 ingressi analogici (sonda unla, sonda exeporatore i sonda condensatore) per sonde NTC, simercasione 2304/C, bozzer di altarme, porta veriale TTL con protocolli di comunicatione MODBUS / Red time clock, 4 digita autiputa (electronechonicol milopi) al which one 30 vec A (2) 2504/C for the campresare management, 3 analog aports (cubinei probe, exeporator probe ond condenser probe) for NTC probes, power sopply 2304/C, altern fuzzer; TTL event port with MODBUS commonication protocol
EVX205N7	5 uncite digital (relix elettromeccanic) in cur 1 ds 30A res. (2) 250 VAC per la gestione del compressione, 3 legressi analogici (sonda cella, sonda evaporatore e sondi condensatore) per sonde NTC, alimentazione 200 VAC, baster di alianne, porta seriale TTL, con protocollo di comunicazione MODBUS / 5 debal corporatore per technologici eleta and condensar probe) for NTC protest poser supply 230VAC, stares bazzer(TTL censiliport with MODBUS communicazione protocol.
EVX215N7	Oroslogio, 5 usater digitali prelie elemnonoccanica) di cui 1 da 30.4 mil. (§ 250VAC per la grasciane del compressione, 3 ingressi analogio (sonda sulla standa eraporitare e sonda condanizzone) per sonda NTC, alimanezzone 230VAC, buzzer di altarme, porta seriale TTL con protocollo di comunicatione MODBUS i Reet time clock, 5 digita autori informenchanicali miseja al visici nee 30 esi A (§ 250VAC) for the compressionement; 3 anellig inputs informatione prote and condenser prote (§ 1000). NTC broken, poiem scapita 230VAC, alima para etta anali per setti MODBUS compressionement and points informatione and condenser prote (§ 1000).

Per altri modelli contattere la rena vendita livos all'indiritzo tales@evos.x / Fer further models pieze consect the Diroy axies network at the address sales@evos.x.

Accessori / Accessories

Chiave di programmazione / Alimentatore/Pourriggior Programming ley

EVKEY

Permatte Tuplisad e 8 deventoad de parametri di configuratione del controllore / It allows uplonding and deventoading the configuration parameters of the centralise EVPS Permetto di sopportare EVKEY quanda il controllore non 4 alimocaso i le altivit supporting EVET when the controllor a net recent Interfaccia seriale TTL / RS-485 mee Isolata / Not multirefTL/85-483 emulane/box

Permette il collegionento del controllore a Parameters Maragor, a RUCS o a EVUSBRECDI / It offest

connecting the controller to Parameters Manager, to RDCS or to

EVIF20TSX

EVERANECEV

EVUSBREC01

recording

Dispositivo per la registrazione di dati / Device for the dato

Permette la registrazione dei dati del controllore e il lora download (via USB, in un documento di testo) / It ollows recording the doto of the controllor and their download (sia USB, in attact document).



Frontale adesivo in poliestere

Permetta il lacaggio dei frontale dei controllore 1.3: oliovo scaling the frontal of the controller.

/ Polyeszer adepive servicy

0041600228







Even & institute in gradua di formine interfaces sensiti acclare a sonde di temperatura / Even can also supply intuitional sensiti interfaces and temperatura probes.

Evco u riserva il dritto di apportare qualsiasi modifica senza presivito e in qualsiasi momento senza pregludicare le caratteristiche



Organizzazione con Sistema di Gestione certificato / Company with Management System certified

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Comptheatedated	in material attacks	12 J. A.A	. Consideration
Caracteristicn	ie principa	11 / /ViGV	1 reatures

Interfaccia utente (scheda a giorno)/ Our nurfax/oper fune bood	EVX201	EVX203	EVX204	EVX214	EVX205	EVX215
156.0 x 45.0 mm (6.141 x 1.771 m), x H0				- 25	- 28	
Display sussons de 4 digit (con icone funzione) / 4 digits custers digitity (with function core)	- (S)		- 19 e		- (i	
6 raati / 8 bertoev				×.		4.5
Punto decimale grado Celeius i Decimal paint Celuis degree	1.5	- 47 - C	- 34			
Communitional / Connections	EVX201	EVX203	EVX204	EVX214	EVX205	EVX215
Fasture + morsettiers faste a vite / fasture + fa screw terminal black						
Alimentazione/Poor supply	EVX201	EV3C203	EVX204	EVX214	EVX205	EVX215
2JOVAC						+
11SVAC				•.		•
Ingresal analogici / Antiq inputs	EVX201	EV:X203	EVX104	EVX214	EVX205	EVXXIS
Sonda cella / Cebinet probe	NTC	NTC	NTC	NTC	NTC	NTC
Sonda evaporatore / Evaporator jimbe		NTC	NTC	NTC	NTC	NTC
Sonda contensatore / Contenser probe			NTC	NTC	NTC	NTC
Ingressi digitali (per contatto NA/NC)/ Digiti/agus (fir NO/NC contact)	EVX201	EVX203	EVXIN	EVX214	EVX205	EVX215
Hiero perta / Deerswitch						
Multifunzione / Multipurpose						
Uscite digitali (rela elettromeccasici; A res. @ 250VAC) / Diptel scipus (elettrometaneal mapons A @ 230WQ	EVX201	EVX203	EVX204	EVX214	EVX205	EVX215
Compressione / Combression	16A."	16A-	JUA .	10 A	30 A	30 A
Springmento / Definit		8.4	84	8A.	84	A.B
Vensilatore dell'avaporament i Evaporator fin		8.6	E.A.	8.4	8.8	8.6
Quarts utents / Loof # 4		1.11	EA	8A.	8.6	BA.
tain deb sela, exercises proparamentes acts policies ante di districa, internet deb pero, sobre dell'approprieto e resistence del sobrecto V (Schrief gel Almeng Sache ante) adjui anno adjui duo teatri regione sobre contras (in-					17560.0	
Q_{0} in the system of Loof H S. Loss is the other estimation integration particular and a particular of the second statistic data gives a solution the Temperature as a method with the temperature of temperature of the temperature of temperature of the temperature of temper					8.4	RA.
Porte di comunicazione / Comunication porti	EV3(201	EAX393	EVX204	EVX214	EVX205	EVX315
TTL, con protocolio di comunicatione (HODIBUS) TTL, with MODBUS convenientation juvacual for 2000/neurone (Honger, MCL a DV/IMEDD The (HED/Neurone Hanger, MCL a (HED/NEU-						•
Altre caratteristiche/Other fothers	EVX301	EVX203	EVX204	EVX214	EVX205	EVXIII
Orologo / Real time cluck		11. Xarra				+
Burzer & diarms / Alem burzer	na richiesta / hy request	tu richiesta) by request		•		•
Connesione diretta dei carschi / Direct luids connection	-	•	•	Ŷ	safvo la quinta unenta / but bod 35 5	astivo la quinta uterca i ha Joad 9 3
Gestione au due livelli dell'allarma condensatore surriscaldato / Overheotod condester sliem monogeneerl er beck			8 3	- 35	25	*
Memorizzatione dell'intervallo di sbrinamento / Delliust interval storing	÷		5.9		2.8	
Gestione adaptativa della abrivamento / Adaptative management of the defruit			24	•	- 14	
Gestione degli allarni di temperatura / Temperature alorna management	- (1)		- 14	×.		
Conteggio delle ore di funzionamento del compressore / Compressor working fours counter		42	34 	*	-	+
Functionamento per bassa o per alta percentuale di umidità relativa / Law or high relative humidity percentage operation		- 8	- 83	- 53	- 25	
Functions: "HACCP" / Function "HACOP"	samples / niny	samples / mity	samplice / nony	warmta/ oderend	samples / noty	eronzeza / pilvanced
Funzione "Energy Saving" / Function "Energy Saving"		- ×	1.8	•	- 28	
Purctione "overcooling" (raffreddameneo rapido) / function "overcooling"	- 26	1	- 24	1	- 52	
Functione "bioccoltastiens" / Function "lock leptoon"				+-		+ .
Pasaword di accesso ai parametri di configurazione l'Access pisaword to configuration porameters					12	+
Riserutino della impostazioni di fabbrica i Forture untiten restoring					2.4	

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(1) 40.8 (1.60i) null'EVX205 e null'EVX215 / 40.8 (1.60ii) in EVX205 and EVX215.





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DATI GENERA	LI			
Data: 04-08-11 N° codice: 004 Prodotto: fronti Progetto: nuov	1600279 (fro alino in polie: o	ntale linea EVX blac stere	k dim. 207,7x	52,7mm)
MATERIALI				
Policarbonato:	□ 120 µ g □ 175 µ g □ 250 µ g □ 250 µ l □ 500 µ g □ 500 µ l □ Altro:	offrato G.E. offrato Bayer Term. offrato G.E. icido G.E. offrato G.E. icido G.E.	Poliestere:	 150 μ goffrato Autotype Term. 185 μ lucido Mowinkell Term. 200 μ goffrato Autotype 300 μ goffrato Autotype Altro:
Adesivi:	 Massa Biadesi Spaziat Spaziat Biadesi Biadesi Altro: 	50 μ 7952 3M vo 127 μ 7955 3M ore 150 μ 7955 3M ore 225 μ 7959 3M vo 130 μ F3114 Mow vo 150 μ N500 Nitto	vinkell	
ATTREZZATUR	RE			
Fustelle Polic Biad	arbonato: P esivo: B004	0069 8 1º impronte: 6 (niest	m T0018)	
	D	imensioni impronte Profondità impronte	e: ø12,0 mm : standard	
DATI PROGET	то			
N° colori di sta Lucidante U.V. Dimensioni: 20 Forma: rettang Raggio angoli:	mpa: 2 : 1 lato)1,7 x 52,7 m olare ø26,35 mm	ım (vedi fustella)		
DOCUMENTAZ	IONE FORN	IITA		
DOCOMENTAL				

E-mail: info@piztop.de

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1.3 Documentation of programming key accessory for EVCO control unit

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STAITTED 1.1 Important

instructions carefully before using the key and folio additional information; keep these associations close to the key for fuune comutations



Additional information

- working conditions (working temperature, humidity, etc.) must be be tween the limits indicated in the technical data
- · if the key has been moved from a cold location to a warm one, the humidity could condense on the inside, wait about an hour befor
- uning it . for repairs and information on the key please contact fixed sales net-
- 40 **OPERATION (NOT VALID FOR EVK100 AND EVK500)** 2.1 Preliminary information

The key can only be used with instruments provided with serial port for the co mmunication with the programming key phereinafter called 'cost 1"1

The key allows to:

copy the working setpoint and configuration parameters (herein called "parameters set") from the instrument to the key (upload)

copy the parameters set from the key to the instrument (download) The copy of the parameters set from the key to the instru-

ment (download) is only allowed if the firmwares of the instruments coincide. The key can be used both with supplied instruments and not, in this last er invalable by re

alies to use a power suppli-The power supplier supports the copy of the parameters

set, not the operation of the instrument. The copy of the parameters set takes 10 s at most, if an this time the key does not signal the operation has successfully been completed for the LED of the key stops shedding red light to shed green light again), it

- to repeat the copy 2.2 Copying the parameters set from a supplied instrument to the key (upload)
- · cut off the power supply of the instrument
- connect the key to the port 1 of the interument
 supply the instrument, the LED of the key will shed green i
- after the internal test the display of the instrument shows: Cin: Bashing, the outputs are sumed off.
- Keep pressed button me of the instrument 4 s. the display of the instrument will show 31 flashing
 Keep pressed button me of the instrument 4 s. 34" will stop flashing to remain it up permissionly, the LED of the key will shed red light and the parameter set will be copied from the instrument to the key, after
- the copy the instrument restores the normal operation and the LED of the key sheds green light again • disconnect the key
- To quil the procedure

. do not operate 60 x or disconsist the key when its LED sheds green Aght and witch off/or the power supply of the entrument.

2.3 Copying the parameters set from a not supplied instrument to the key (upload)

• connect the key to the power supplier to the key

• put the plug of the power supplier to a socket, the LED of the key will

- uted green sight
- · after the internal test the display of the instrument shows 'Cin' fashing.
- keep preved button (jet) of the imbrament 4 s. the display of the
 instrument will show 'St' flashing
- keep preved button is of the instrument 4 s. "St" will stop flashing to remain it up permanently, the LED of the key will shed red light and the parameter set will be copied from the instrument to the key; after the copy the LED of the key sheds green light again.
- · pull out the plug of the power supplier
- disconnect the pin of the power supplies
 disconnect the key
- To guit the procedure
- not operate 60 s or pull out the plug of the power supplier when the LED of the key sheds green light

PIZTOP **GEORG DEUTSCHLE STR: 70** 73730 Esslingen. Tel. ++49 0 71537505025 E-mail: info@piztop.de

- 2.4 Copying the parameters set from the key to a supplied instrument (download)
- cut off the power supply of the instrument
 connect the key to the port 1 of the instrument
- · supply the instrument: the LED of the key will shed-green light
- after the internal test the display of the instrument shows. "Cin" Bashing: the outputs are turned off.
- keep presed the button of the key 1 s the LED of the key will shed red kghit and the parameter set will be copied from the key to the imbrument after the copy the display of the instrument shows **PrG**⁺. the instrument restores the normal operation and the LED of the sheds green light again
- · press a button of the instrument to get 'PrG' to disappear

minect the key

To quit the procedure

- Ho not operate 60 s or disconnect the key when its LED sheds green light and switch off/on the power supply of the instrument.

- 2.5 Copying the parameters set from the key to a not supplied instrument (download)
 connect the key to the port 1 of the entrument
 connect the pile of the power supplier to the key
 put the plug of the power supplier in a socket, the LED of the key will
- shed green light, after the internal test the display of the instrument shows "Cin" flashing; the outputs are turned off
- keep preside the button of the key 1 is the LED of the key will i not light and the parameter set will be copied from the key to will should instrument; after the copy the display of the instrument shows "PrG" and the LED of the key sheck green light again
- · prim a button of the instrument to get 'PrG' to diappo

pull out the plug of the power supplier
 disconnect the pin of the power supplier

- · disconnect the key
- To quit the procedu
- · do not operate 60 s or pull out the plug of the power supplier when

a area	
3.1 Sige	tals of the instrument
CODE	MEANING
CIN OF C	If it flashes, one will have gained access to the procedure to
	copy the parameters set; the outputs of the instrument are
	turned off
51	If it flashes, one will have decided to proceed with the copy
	of the parameters set from the instrument to the key (upload).
	the outputs of the instrument are turned off
	If it is lit, the copy of the parameters set from the instrument
	to the key jupload) will be running, the outputs of the in-
	strument are turned off
PrG or PG	The copy of the parameters set from the key to the instrument
	(download) has successfully finished giress a button of the
	instrument to get "PrG" to disappear), the instrument re-
	stores the normal operation
1.2 Sigr	hals of the key
LED	MEANING
green	+ the key is stappied
	+ the copy of the parameters set is finished
red	+ the copy of the parameters set is numbing
ALA	UPMS
1.1 Ala	rms of the instrument
CODE	IMEANING
	The copy of the parameters set from the instrument to the
	key is falled
	Remedies
	· press a button to resider the normal operation and to a
	lance the burger of present
	 check the connection key instrument
	· check the interior of the land
	control the control
	Efforts
	• rate effort
C	There forewhat against and other pression approaches after short manufacturity
car or ca	Computer
	d the setter ment is a subsided, which off the first setters to a
	 If the interaction is support, senter the power sup- ext of the insteament of the insteament is not to readed, and
	ply of the entrument, if the instrument is not supplied, put
	· charity the first one power support
	 CHOCK THE ATTRAVENTS CONTOINE (CHOCK DIVE CARD) OF DECOMP.
	borg
	ATTRACT.
	• Fig Elitera
Erd or Er	The copy of the parameters sat from the key to the intinu-
	more it fatient
	Remedies
	 beers to prepay to resource take pressed is beneful)
	 switch off/on the power supply of the instrument
	 check the connection key-instrument
	 check the integrity of the key
	nepexit the copy

- · restore the default value of configuration parameters Effects
- . the outputs will be turned off

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4.2 Alarms of the key LED MEANING red/ One of the

One of the alarms indicated in paragraph 4.1

green 5 TECHNICAL DATA 5.1 Technical data

Box: self-extinguishing grey:

Connectionst 6 poles connector ito the serial port of the instrument for the communication with the programming key), pin (to the power supplier, available by request).

Working temperature: from 0 to 55 °C (32 to 131 °€ 10 ... 90% of relative humidity without condensate].

Power supply: if the instrument is supplied, the key will be supplied by the instrument itself, if the instrument is not supplied, the key will be supplied by the power supplier.

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11.4 Documentation of modem GSM/UMTS "HT910 G / E"



Important information

This technical description contains important information for start up and use of the HT910 G Terminal. Read it carefully before you start working with the HT910 G Terminal.

The warranty will be void should damage occur due to non-compliance with these instructions for use. We cannot accept any responsibility for consequential loss.

We cannot be held responsible for material loss or personal injury that is due to incompetent use or non- compliance with the safety instructions. The warranty will be void in such circumstances.

The HT910 G Terminal contains highly integrated components which can be damaged by electrostatic discharge if the user would open the housing.

CEP preserves the right to change the included information without notice and doesn't take responsibility for errors in the document and/or missing information.

Safety Instructions

Before opening of a device always pull the mains adapter or make sure that the device is disconnected from the power supply.

You should only use tools on components, modules or devices if they are disconnected from the power supply and the electric charge, which may still be stored in some components, inside the device has been discharged.

All cables and wires which are energized and connected to the device, the module or components have to be checked regularly for any damage of the isolation shield or fractures of the cables. If the supply cables are visibly damaged the device has to be taken out of operation immediately until the faulty cable has been exchanged.

When using components or modules it is necessary to strictly observe the specification given in the corresponding description of these components. If a description for a private end-customer not clearly states which electric data is valid for a component or a module, how to wire the device, which external components or additional devices can be connected or which parameters these components are allowed to have, a specialist must be contacted.

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Before putting a device into operation, it has to be clarified, whether this device or module is meant for the field of application. In case of doubt ask specialists or the manufacturer of the device. Please note that we are not responsible for any errors in usage or connection. Therefore we cannot accept any responsibility for consequential loss.

Devices which operate with >35 Volt have to be connected by a specialist. Before putting the device into operation it should be checked that there is no current leakage on the housing.

n case those measurements with the opened housing are necessary, an isolating-transformer has to be integrated for safety reasons. Alternatively the voltage can be supplied by an appropriate power supply which complies with the safety regulations. All wiring work has to be done in a voltage free state only.

For more info, please see the full report addressed by the follow link.

https://www.google.it/search? q=HT910+G+Terminal+User+Manual&rlz=1C1WZPD_enIT384IT465&oq=HT910+G+Terminal +User+Manual&aqs=chrome..69i57.540j0j4&sourceid=chrome&ie=UTF-8

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Appendix :_

Refrigerator unit description :

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SC15CLX - 220-240V - 60Hz - 800 Watt – COMPRESSION POWER 15 cubic centimeters.

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Loading the fridge of pizzas and update the machine software interface <u>PizzaCookingStudio</u> :

Bend the boxes properly as suggested :









thus you may decide to put the filled boxing inside the compenser manually

starting from the lowest position as below :





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Fig. 87

Fig. 88

once you have inserted all the wanted pizzas close the fridge door and

update the software PizzaCookingStudio by clicking on 'Fridge load storage'

left or right cell. A proper window will open as shown :

File Edit User							
Fridge load storage	Los	d E	mpty Load ;	izza End loading			
2.Ruht	Position	Pizza ID	Pizza label	Load date/time	Expiry date/time	Expired	damaged
Active alarms	6	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
larme history	5	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
work uttion history	4	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
Andree Nictory	3	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
and a contract to	2	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
	1	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False

Fig. 89

click on 'Load' and a second page opens :

Fridge	1-Left		~
Pizza	1-MARGHER	ITA	~
Expiry days	0		
Quantity	0		

Fig. 90

then select the type of pizza, set the 'expiry days' and the number of meal it has been put in. Press Load.

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Finally press on 'Active Alarm', Reset the machine, close the front door and turn lower key.

In case it is wanted to fill the fridge automatically , repeat the operations described in pictures 85 and 86.

Secondly go to 'Program option' and select the last string to enable the compenser automatic load :

🏄 start 👘 🙆 🚳		😤 PizzaCookingStudio 1	Graphics Server	👹 Opzioni_7 - Paint		2 9, 10 14.14
File Edit User						
1-Margherita	~	Edt				
3. Similatione				Data	Value	
4-Grilled Vegetables 5-Capricciosa				Modem - Status SMS: password	1234	
			Fridge temperature records	True		
	100		Fridge tem	perature records frequency (sec)	10	
Alarms history			Max available rec	ording fridge temperature (days)	30	
Alarma properties			Size of displayed	recording for fridge temperature	500	
Production history			Min value of Y da	ta - fridge temperature recording	-50,000000	
Fridae history			Max value of Y da	ta - fridge temperature recording	50,000000	
Oven management commands				Display current credit	True	
Fridge management commands 1-Left 2-Right Tomits status				Multilanguage management	True	
				Automatic alarms reset enabling	True	
		Autom	atic alarms reste frequency (sec)	300		
			minimum	threshold of pizza in fridge of left	5	
Outraits status			th mumimum th	hreshold of pizza in fridge of right	5	
Over narameters			Ge	neral enablement of fridge of left	True	
Elevator parameters			Gen	eral enablement of fridge of right	True	56
Grill payameters			Enabling compenser of left an	id right fridges for automatic load	True	
General parameters Internal errors						
Program options	~	H 4 P H Messages	/			
		ale		Current user name = Cler	reci	CARINUM SCR



thirdly, go back to 'Fridge load storage' left or right cell.

When a new page opens :

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File Edit User							
Fridge load storage	Los	5 E	mpty Load ;	sizza End loading		1	
2.Dubb	Position	Pizza ID	Pizza label	Load date/time	Expiry date/time	Expired	damaged
Action alarme	6	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
larme history	5	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
orbition history	4	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
Vidne history	3	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
tradie canon 2	2	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False
	1	1	Margherita	01/03/2016 12.34.00	08/03/2016 12.34.00	True	False



select 'load pizza', and put manually a box at the empty fridge lowest position. So the compenser will start moving backward bringing the last box to the top where a photocell controls the moving.

Now you may start inserting new boxes into the cell from the top position to the lower ones, as the compenser steps down automatically every 1/2 seconds.

When you have put in all the wanted number of pizza then press 'End Loading',

Go to 'Active Alarm', Reset the machine and finally turn the front door lower key.

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Cleaning fridges stores and compenser :

In order to comply the US's regulatory, Cierreci s.r.l. has developed a storage and handling system that can be completely dismantled to make way for internal cleaning as described ahead.

Storage, made of stainless steel, Fig. 93; fins and compenser made of plastic , Fig. 94, both approved by the NSF 51.

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Fig. 94

Warning:

The kind of pizza used into Cierreci s.r.l. vending machine should have a maximum diameter of 11.0236" ; a maximum height of 1.1811" and a weight not exceeding 0.7716 lbs.

To remove the handling system proceed as follow:

1) By using a socket wrench remove the lower bar, Fig. 95,96,97. PIZTOP GEORG DEUTSCHLE STR: 70 73730 Esslingen. Tel. ++49 0 71537505025 E-mail: info@piztop.de

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Fig. 95







Fig. 97

2) Place the bar on the refrigerator bottom, Fig. 98.





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 By using a socket wrench remove the four corners big nuts for each storage side, Fig. 99, 100.







4) Once you have removed all the nuts, pull up and disentangle the compenser from its supports then remove the insulation panel, Fig. 101.

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5) Pull up and remove the storage left and right compenser belt and their metal frame, Fig. 101c /Fig. 101d.

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Fig. 101c

Fig. 101d

6) After cleaning the interiors, perform the reverse procedure to restore the refrigeration cells: compenser belts their metal frames, the 8 bolts, the insulating panel, the lower bar.

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Enabling the pusher anti-icing automatic movement :

Because of the excessive cold inside the fridges storage, the gears of the pushers, which move the pizza from the cold area to the oven one could freeze.

For that reason, Cierreci s.r.l. disposed in the possibility to enable a short and cyclic movement of the pushers so as to prevent and avoid a machine stall.

To enable this modality, select 'General parameters', set to 'true' the option 'Enabling pusher defrosting cycles' and decide the time between one defrosting and its next one as pictured below, Fig. 102 :

File Edit User			
Pizza archive 1-Margherita	-	Edit	
2-Peoperoni	1.18	Data	Value
3-Smulazione 4-Griled Vegetables 5-Capricciosa Active alarms Alarms history Alarms properties Docketion history	1.1	Compenser step photocell alarm delay (1/100 sec)	0
	1	Pushers forward/backward limit-switches alarm delay (1/100 sec)	0
		Ejector forward/backward limit-switches alarm delay (1/100 sec)	0
		Hatch forward/backward limit-switches alarm delay (1/100 sec)	0
		Lower oven closed/open limit-switches alarm delay (1/100 sec)	0
	and the second	Oven gates closed/open limit-switches alarm delay (1/100 sec)	0
		Main supply (230Vac) absence timeout (1/100 sec)	0
Fridae history		Lack of 230vac main power supply alarm delay (1/100 sec)	0
Oven management commands Pridge management commands - 1-Left - 2-Right Traves clubus		General production simulation cycles	0
	-	No boxes production simulation cycles	0
		Pause between simulation cycles (1/100 sec)	0
		Free mode enabling	False
		Product delivery time (1/100 sec)	0
hiputs status		Time between pushers defrost cycles (sec)	0
burn nanaratara		Enabling pushers defrosting cycles	False
overs parameters		Compenser automatic load step delay time (1/100 sec)	0
Sevator parameters			
and parameters	H		
senser of planameters.	1		

Fig. 102

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Upper oven cleaning procedure :

In order to allow a top oven periodic cleaning, some parts of it can be dismantled and removed as shown below :

1) Remove the carter of the machine rear central door, put the grill arm in backward position, unscrew the two screws holding latch pizza, Fig. 103.



Fig. 103

2) Remove the holding latch pizza, Fig. 104.
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Fig. 104

3) By using a socket wrench remove the top oven glass cover, Fig. 105.



Fig. 105

4) Pull the lower part of the fixed upper oven, Fig. 106.

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Fig. 106

5) Dismantled parts of the fixed oven, Fig. 107.

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6) Holding latch pizza, upside down view, Fig. 108.





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Modem GRPR and remote control :

The 2.0 Vending machine is equipped of a GPRS modem for remote control, Fig. 109.

To activate the modem please do as follow:

- Turn off the UPS.
- Insert a common SIM card in the proper slot.
- Connect the modem serial cable to the PC door, COM2.
- Turn on the UPS.
- Log in PizzaCookingStudio interface as super user 'Cierreci'.
- Select Program Option section.
- Write a cell phone number (up to 10 numbers) in the proper menu.



Fig. 109

The GPRS modem will send text messages to recorded cell phone numbers. The information sent would be like:

- MN : machine ID number.
- MS : machine status.
- MA : alarm ID code (see alarms description, page 79).
- MC : machine cycles (number of pizza cooked since the start time).

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- LT/RT : real time temperature of fridges of left and right.
- LN/RN : number of pizza in stock for both fridges.

Adding a common internet Key and plugging it into a USB door, the vending PC can be connected on line, Fig. 110.



Fig. 110

The internet Key must have a traffic data active card.

Plug the internet key in and follow the questions suggested by the system. When on line, the machine could be reached using team Viewer application. For more details about the services provided by Team Viewer, ask to Cierreci Service department.



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Technical support

For technical assistance it is advised that contact be made directly **CIERRECI s.r.l.** which will repair/replace the defective product or provide the names of qualified technicians in the area.



In case you require technical service for any difficulty, please specify clearly the type and nature of the problem involved, so that the most appropriate materials can be supplied.