

# ERGO

## INSTRUCTION MANUAL





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## 1. Introduction

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### 1.1 Introduction and purpose of the Manual

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Thank you for choosing Criocabin S.p.a., hereinafter referred to as the Manufacturer. We are glad to have you as our Customer and hope you will be fully satisfied with this product.

**This Use and Maintenance Manual is an integral part of the product and is aimed at anyone who works on the product or interacts with its users.**

The purpose of this Manual is to supply the necessary information to enable:

- *quick identification of the product parts;*
- *all the commissioning, functioning and maintenance operations to be carried out on the product;*
- *the health and safety of all users and exposed persons to be guaranteed at all stages.*

All information, drawings, diagrams, tables and any other contents of this Use and Maintenance Manual are confidential and therefore the full or partial reproduction or disclosure thereof to third parties is subject to the authorisation of the Manufacturer in its capacity as sole owner.

#### 1.1.1 Use of this Manual

Read this manual before handling, installing and using the product, and likewise before carrying out any maintenance work on it.

The term Manufacturer will always be used to indicate Criocabin S.p.a., while the generic term Supplier will be used to indicate other manufacturers of specific components fitted in the product.

The term Dealer will be used to indicate the company that, according to a distribution agreement signed with the Manufacturer, is authorised to sell the product and constitutes the Customer's commercial counterpart.

Keep this manual away from sources of heat, dampness and corrosive agents throughout the product working life, pass it on to any other user or subsequent owner and keep it handy for easy reference by its users.

Handle this manual with care; do not damage it, tear out pages or modify its content for any reason.

The Manufacturer reserves the right to communicate at any moment any information which is considered necessary for a better and safer use of the product. Such information, provided as modifications, updating or additions, will have to be considered in all respects as an integral part of this manual.

### 1.2 Warranty conditions

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Warranty conditions are stated in the sales agreement which is accepted by the Customer by means of order confirmation.

### 1.3 Graphical conventions

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**Bold type** is used to highlight information considered important.

References to illustrations are made by means of a number in **bold type** that identifies the illustration (i.e. **Fig. 1**) and, if necessary, by means of a letter or number that identifies the component in question

within the illustration. Illustration references and component references may be used at the same time (i.e. **A - Fig. 1** or **1 - Fig. 1**).

The following graphical symbols are used in this Manual to draw users' attention to information concerning proper and safe use of the product:



**NOTE!**

This symbol is used to highlight a piece of information or advice, or a rule which is considered particularly important.



**CAUTION!**

This symbol is used to point out a dangerous operation or situation.



**PROHIBITED OPERATION!**

This symbol is used to indicate a prohibited operation.

Additionally, the graphical symbols listed below are employed in this manual to show the Personal Protective Equipment which must be worn when installing, using and maintaining the product.

The symbol for each safety device will be found whenever a specific operation requires use of said device.



**PERSONAL PROTECTIVE EQUIPMENT**

This symbol indicates that it is compulsory to wear protective gloves during operations marked by this symbol.

**1.4 Personnel qualifications**

Here follows a description of the type of personnel to whom this Manual is addressed.



**Qualified**

The Qualified Technician is a specialised technician who is supplied by the Customer or by the Dealer and is authorised, under different circumstances, to carry out operations such as assembly, disassembly, installation, set-up, start-up, maintenance and repair.

**1.5 General warnings**

All the indicated safety regulations must be strictly observed by the users of the product.

The instructions written on this Manual will be the object of a training activity given by the Dealer's technical personnel during installation. The Customer will be responsible for selecting, inside their organisation, the people to whom such training activity is addressed and for checking that the trained personnel have reached a learning level which is apt for the tasks assigned to them.

The diagrams enclosed in this Manual are to be used only for extraordinary maintenance and controls.



**Note!**

**It is strictly forbidden to use them to carry out modifications on the product. Possible modifications are to be required directly to the Dealer, specifying all the product technical features and the reasons for such modifications; if approved, modifications must be carried out only by the Manufacturer's personnel or by authorised personnel.**



**Note!**

**Any non-authorised tampering/replacement of one or more parts or units of the product may cause accidents and exempt the Manufacturer from civil and criminal liability.**

### 1.5.1 To be arranged by the Customer

**Provided for otherwise by special contractual conditions, the Customer is responsible for arranging the following:**

- *selecting the people to whom the training on the product use is addressed;*
- *arranging a suitable place for product installation;*
- *checking that the received product corresponds to the order specifications;*
- *carrying out all the activities described in the present manual, except where expressly indicated otherwise.*

### 1.5.2 Technical assistance

The Customer may require technical assistance by contacting directly the Dealer's Customer Service according to the ways specified in the Sales Agreement.

### 1.5.3 Spare parts



**Note!**

The Customer must always use original spare parts supplied by the Manufacturer. The Manufacturer cannot be held responsible for any damage or injury or any other inconvenience arising from the use of non-original spare parts.

Drawing, references, descriptions and serial numbers for the identification of all the mechanical parts are listed in the section **Spare Parts**.

With regard to the electrical and electronic equipment, please refer to the electrical diagrams 1 and 2.



**Note!**

**When ordering new spare parts, always quote the model and serial number of the product for which the spare parts are required.**

## 2. Information on safety

### 2.1 General regulations - Training

- *It is recommended that any person who interacts with the product reads this Manual completely before starting to operate.*
- *Negligence or failure to comply with these safety regulations while using and maintaining the product may cause accidents for which the Dealer and the Manufacturer are not responsible.*
- *Finally, it is hereby reminded that according to the provisions of the law in force:*



**Note!**

**Workers must follow the orders and instructions given by the employer.**

### 2.2 General regulations - Skills and checks

- *Only qualified and authorised technical personnel can install, set and carry out extraordinary maintenance on the product.*
- *The product has been designed only for holding food and shall not be used for any other purpose.*
- *Always use the Personal Protective Equipment when recommended.*
- *Arrange fire-fighting equipment adequate to the product technical features.*

### 2.3 Fire regulations



**Warning!**

When put in contact with free flames, the refrigerant fluid undergoes a thermal decomposition into a caustic and poisonous substance.

Avoid exposition to sparks and sources of inflammation.

### 2.4 First aid regulations

The following first aid regulations concern the treatment of injuries that could be caused by the refrigerant fluid.



**Warning!**

**If a refrigerant fluid comes into contact with eyes:**

do not rub the eyes;  
remove contact lens;  
rinse thoroughly for at least 20 minutes.



**If a lubricant comes into contact with skin:**

wash the skin with a great quantity of water for at least 20 minutes;  
leave the skin uncovered.

**If a lubricant is swallowed:**

drink as much water as possible.

**In all the above cases, bring the injured person to the nearest medical facility.**

**Note!**



For further details, refer to the "Safety data sheet" of the refrigerant fluid.

## **3. Product specification**

### **3.1 General description**

The product described in this manual is a display cabinet, hereinafter called "cabinet", multiplexable, in standard sizes, whose intended use is to display food sold:

#### **3.1.1 Structural components.**

The above mentioned cabinet is provided with:

##### **ERGO 100**

- *Multiplexable.*
- *Anti-fogging front ventilation.*
- *Potentiometer for fans.*
- *Ventilated refrigeration with evaporator handled in anti-corrosion cataphoresis.*
- *Refrigerator compartments.*
- *304 stainless-steel scratchproof work surface.*
- *Satin-finished AISI 304 steel display surface.*
- *Paper holder.*
- *R404a thermostatic refrigeration valve.*
- *Condensate collection tank.*
- *Electronic panel.*
- *Top shelf in painted aluminium.*
- *Cabinet lighting with lamp protection.*
- *Ventilated defrosting with compressor block.*
- *Personalised front (Luxury).*
- *Perimetrical bumper skirting (Luxury).*

##### **ERGO 200**

- *Multiplexable.*
- *Anti-fogging front ventilation.*
- *Potentiometer for fans.*
- *Ventilated refrigeration with evaporator handled in anti-corrosion cataphoresis.*
- *304 stainless-steel scratchproof work surface.*
- *Satin-finished AISI 304 steel display surface.*
- *Paper holder.*
- *R404a thermostatic refrigeration valve.*
- *Condensate collection tank.*
- *Electronic panel.*
- *Top shelf in painted aluminium.*
- *Cabinet lighting with lamp protection.*
- *Ventilated defrosting with compressor block.*
- *Personalised front (Luxury).*
- *Perimetrical bumper skirting (Luxury).*

### **3.1.2 Functional components**

The cabinet is available in two versions:

- *built-in condensing unit (cabinets with "refrigeration unit");*
- *with remote condensing unit (cabinets "without refrigeration unit")*

All adopted materials are certified for use in food industry and the refrigerants are in conformity with the Regulations in force.

### **3.1.3 Control system**

It is performed through control units.

For specific instructions on its use, refer to the enclosed "**Carel control unit instructions for use**".