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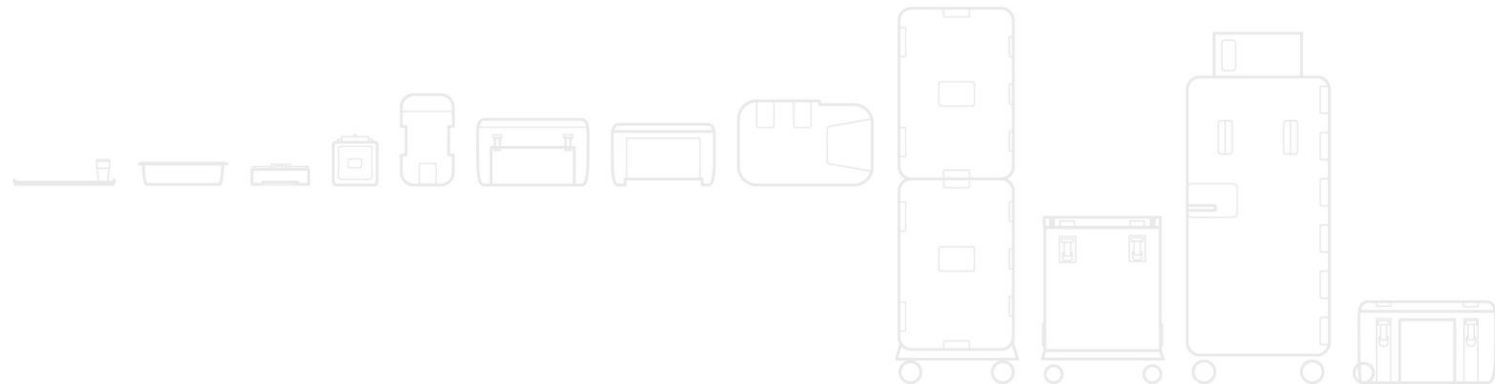
Read the correct use and maintenance manual, available here:

en.melform.com/section/manuals



RAPID COOLER FOR MELFORM EUTECTIC PLATES

Use and maintenance manual





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1. INTRODUCTION

1.1 Field of use

The rapid cooler has been designed and built to freeze the eutectic mixture contained in the Melform eutectic plates. The eutectic plates inserted in the conditioning cell and appropriately positioned inside specific racks, can be correctly conditioned inside the cell, to be subsequently used inside the isothermal containers to prolong the thermal maintenance of the transported products.

1.2 Consultation of the manual

This manual has been organized so that the user can find all the information necessary for use and maintenance in a simple and rapid manner. Therefore it must always be kept at the disposal of maintenance personnel and operators.

The instructions for use must be read carefully before the product is put into service.

1.3 Warranty



The product is guaranteed against construction defects for one year from the date of purchase, provided that:

- has been used following the manufacturer's instructions
- has not been connected to an inadequate power source
- has not been damaged by improper use

Accidental damages due to transport, neglect, incorrect or improper use are excluded from the warranty with respect to what is reported in these instructions for use. The warranty is void if the product has been repaired or tampered with by unauthorized third parties.

Contact your local distributor or Melform Customer Care for any assistance and for the possible supply of original spare parts.

The manufacturer reserves the right to change the characteristics of the models at any time without notice. Variations in color tones are possible.

2. WARNINGS

The product is built in accordance with the latest state of the art. All the requirements necessary for safe and correct operation of the appliance have been met.

It is recommended that the manager of the user company provide for the training of the personnel so that the container is destined exclusively for the uses for which it was designed, using it correctly as indicated in these instructions for use.

2.1 General safety rules



- THE USE OF THE PRODUCT MUST COMPLY WITH THE MANUFACTURER'S INSTRUCTIONS.

The function of the rapid cooler is to freeze the Melform eutectic plates. Different functions or methods of use are therefore contraindicated.

- For any repairs, contact an authorized technical service center and request original spare parts.



- THE APPLIANCE WORKS WITH ELECTRIC CURRENT. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY CAUSE DAMAGE TO ELECTRIC SHOCK WITH THE DANGER OF LIFE

- The use of the product is reserved for adults and trained to use it correctly. Keep away from children.
- Warning: after an intensive use, some parts of the system, such as the compressor, could reach high temperatures. Take the appropriate precautions to limit the risks associated with maintenance operations.



- WE RECOMMEND TO WEAR ATHERMIC GLOVES OF PROTECTION DURING THE HANDLING OF FROZEN EUTECTIC PLATES.

- The rapid cooler must not be used as a system to quickly cool food. Hot products must not be inserted inside the cell.
- Warning: there is no opening from inside the door, avoid closure of people/animals inside the Cargo.

-We recommend using the appliance at an ambient temperature of + 10 ° C to + 30 ° C, in a covered and ventilated work area. It is not recommended to use this appliance in particularly damp work areas, since the condensation caused by humidity on the electrical components of the same could cause, once connected, circuit breakers or electric shock.

- It is recommended not to store the container at a temperature below 0 ° C. The humidity in the air damages the electronics of the container and the low temperature solidifies the oil present in the engine.



- Never exceed the ambient temperature of + 45 ° C: beyond this temperature the electronics of the rapid cooler may be irreversibly damaged.
- Use the rapid conditioning cell only on flat surfaces.
- Turn off the conditioning cell in case of overturning or sharp inclination. Reposition the container on a flat surface and wait at least 24 hours before turning the conditioning cell back on.
- Periodically check the good condition of the appliance.
- Use only the power cable supplied by the manufacturer. Do not use the power cable if it is damaged. Do not place the power cable on wet surfaces.
- Do not operate the rapid conditioning cell if it has received a blow, fallen or is damaged.
- Do not expose the rapid conditioning cell to splashing water, rain, bad weather or aggressive and polluting atmospheres (fumes, gas).
- Do not install the appliance near sinks or taps.
- Do not leave the container exposed to direct sunlight.
- Do not install the container near kitchens, stoves or other appliances giving off heat.
- Do not store flammable liquids in the container.
- Do not touch the evaporator with wet hands.
- Before carrying out any cleaning, maintenance, repair or any other operation on the equipment, disconnect the power supply.
- Do not wash the rapid cooler with steam or pressure jet equipment.
- Do not cover the ventilation grids. Leave at least 20cm free space around the ventilation grids.
- Do not touch the cooling unit on the roof of the container with wet hands.



- Do not bring the container into contact with pointed, sharp surfaces or with direct heat sources (electric plates, open flames ...).
- After use, disconnect the cable from the main power. To disconnect the appliance from the power supply, grasp and pull only by the plug and not by the cable.
- If the power supply fails during operation, disconnect the appliance from the main power.
- Any change not expressly authorized by the manufacturer after purchase on the rapid cooler will void the warranty.

IMPORTANT: THE MANUFACTURER DISCLAIMS ALL LIABILITY IF THE FOREGOING RULES OF ACCIDENT PREVENTION ARE NOT RESPECTED BY THE USER.



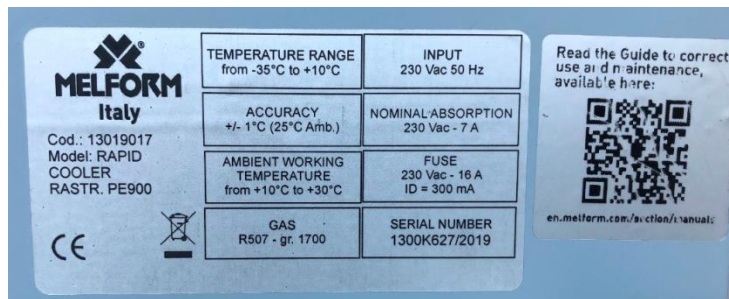
3. USE OF THE PRODUCT

3.1 Use of the product for the first time

The rapid cooler was cleaned before being shipped from the factory. However, before any use of the container, it is recommended to wash it as described in paragraph 4.1 "Washing Instructions".

3.2 Installation

For information on the technical data of the rapid conditioning cell (power supply, absorption, protection fuses) refer to the rating plate data on the unit (see photo), to the information in this manual and to the product sheet published on www.melform.com.



The rapid cooler must be supplied with a 230Vc.a main power. 50Hz, through blue IEC309 plug (2 poles + 230V 16A earth) .

Connection to the 230Vc.a network. 50Hz:

- check that the plug of the power cable is suitable for the socket of the electrical system;
- **make sure that the socket is provided with an efficient earth contact and has an adequate range.** The electrical safety of the appliance is ensured only when correctly connected to an efficient earthing system; systems that do not comply with current regulations could cause damage to property and people;
- do not use c.a./c.c. transformers / inverters to feed the rapid conditioning cell. In case of particular use requirements, contact the supplier;
- do not use the appliance if the power cable is damaged; use only the original network cable.

3.3 Start up



Picture 1 - Differential magnetothermal circuit breaker for protection and sectioning of the refrigeration unit




Picture 2 - Control panel of the refrigeration unit



Picture 3 - blue IEC309 plug (2 poles + 230V 16A earth) for connection to the 230Vac 50-Hz power supply



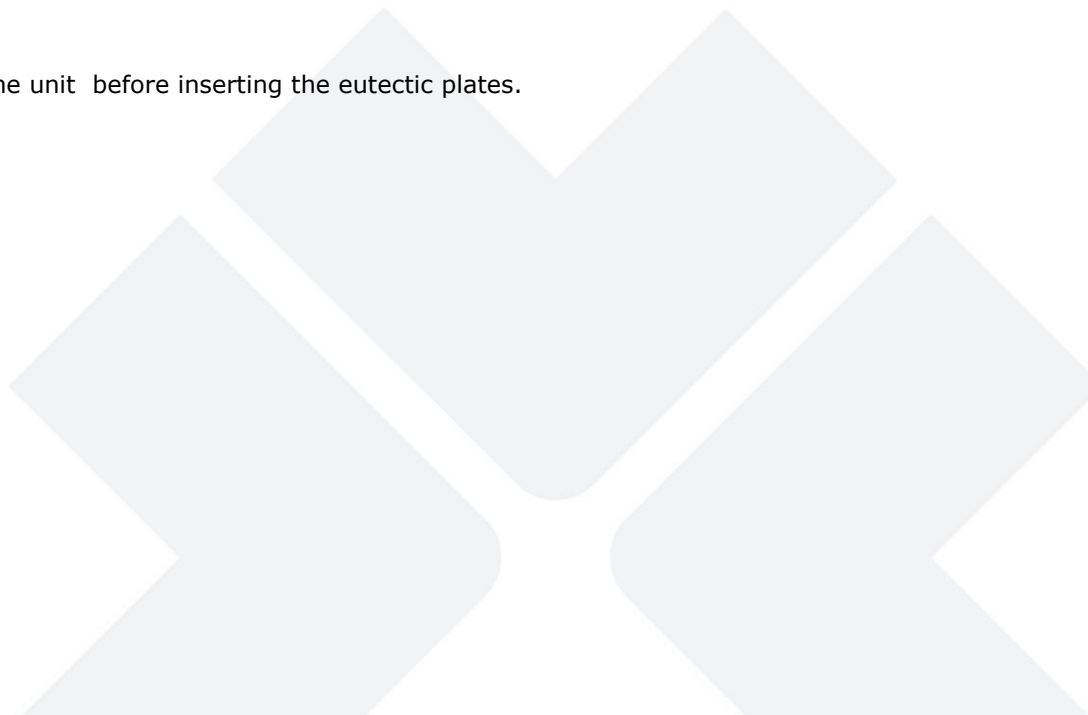
To switch on the rapid conditioning cell, proceed as follows:

- Connect the blue IEC309 plug (2 poles + 230V 16A earth, Drawing 3) to the 230Vac 50-Hz power supply
- Lift the door of the circuit breaker (Picture 1) on the left side of the control panel of the refrigeration unit
- Lift the differential magnetothermal switch
- Close the door of the circuit breaker
- Turn on the control panel (Picture 2) by pressing the Stand by button  at the top right. In this way the rapid conditioning cell starts working.

Proceed in reverse order **to switch off the unit**.

The rapid cooler is pre-set to work at a working temperature of -35 ° C; if you wish to operate at a different temperature, contact the manufacturer.




It is advisable to precondition the unit before inserting the eutectic plates.






3.4 Operation of the control panel (Drawing 2)

The control panel is programmed by default at a default set-point value of -35 ° C (minimum operating temperature). If you wish to set the set-point at a higher temperature proceed as follows:

- Press the button 
- Continuing to press the previous button, set the temperature to the desired value by pressing  and . Once the limit temperature of -35 ° C is reached, the refrigerator unit will not drop in temperature anymore.

DEFROSTING INSTRUCTIONS

An automatic defrost cycle lasting 30 minutes (25 minutes of defrosting + 5 minutes of dripping) is already programmed every 8 hours of operation of the rapid conditioning cell. The condensation water is discharged through the pipe located on the back of the container. Provide a water collection tank under the drain pipe if necessary.

If it is necessary to carry out a manual defrost, it is possible to do this by pressing the defrost button  present on the control panel of the refrigeration unit.

Check periodically that there is no ice inside the drain pipe

Check periodically that there is no ice that could block the rotation of the fan.

In order to optimize heat exchanges, it is advisable to periodically defrost the cell completely, switching off the control panel and leaving the container open for a period of 24/48 hours.

3.5 Plate loading / unloading instructions

To load the plates, proceed as follows:

- Open the container by acting on the special handle.
- The insertion of the plates in the rack must be done in the shortest possible time, as well as the extraction. To insert it, simply slide the plates into the guides, inserting them vertically, on the long side. The number of insertable plates for each model is indicated on the technical data sheet
- once the operation is completed, close the container with the special handle



To extract the plates, proceed as follows:

-Open the container by acting on the special handle.

-Extract the plates in the following way: the extraction of the first row of plates can be done manually with gloves, holding the plates by the special handle. The extraction of the row of plates positioned on the bottom of the rack must be done using the special rod, supplied on request with the conditioning cell



Use the rod with handle on one side and fold to L on the opposite side to extract the plates positioned on the bottom of the rack.

CAUTION: Do not remove the plates trying to grasp them with your hands. Risk of bumping into the rack guides.



3.6 Transport instructions

- Before handling the container make sure the door is closed.
- The loaded container can reach a considerable weight; it is therefore always advisable to lift it or handle it with caution, possibly using forklift trucks suitable for use carried out exclusively by qualified personnel and with particular caution
- Move the container with wheels or trolley using the special handles.
- When handling the container take the utmost care to avoid impacts against

-CAUTION: slippery container bottom

3.7 Instructions in the event of prolonged disuse

In the event that the container is not used for a prolonged period, perform the following operations:

- Remove all the products from the container and dry any condensation
- Turn off the refrigeration unit
- Remove the mains plug from the appliance. Store the cable in a safe place and protect it from moisture.
- Clean the container as indicated in paragraph 4.1 "Washing instructions"
- Leave the cover (the door) open to prevent unpleasant odors.



4. MAINTENANCE

4.1 Washing instructions

Regularly clean the container inside and outside, respecting the following indications:

- Before cleaning the container, turn off the refrigeration unit. Remove the mains plug. Store the cable in a safe place and protect it from moisture.
- Clean the container with a cloth dampened in warm water; for hygienic use always dry the container with disposable cloths or paper (never reusable cloths).
- Do not use metal or synthetic pads, use only soft brushes with plastic or natural bristles.
- Do not use abrasive powders, ammonia, acids or solvents.
- It is possible to use soapy solutions.
- Do not use steam or pressure jet appliances.
- Make sure that water does not enter the ignition and adjustment controls, the ventilation grids or the appliance socket.
- for more information on the products suitable for cleaning it, refer to the technical data sheets or contact the supplier

4.2 Ordinary maintenance

UNITS	FREQUENCY	ACTION
Connection cable and main plug	6 months	Check that they are not damaged or too old. If not, proceed with replacement.
Gasket	6 months	Check the conservative status. Replace it if it is broken or deteriorated.
Frost on the surface of the evaporator	weekly	If the thickness of the layer of frost exceeds 3 mm, proceed to defrost (follow the instructions reported in following manual "Instructions for the defrost ")

4.3 Problem solving

If the appliance does not drop in temperature, carry out a defrost cycle of 24/48 in order to eliminate any ice films that may prevent it from working correctly.

If the appliance does not work following this intervention, contact the supplier



5. DISPOSAL

5.1 Packaging

The packaging material (cardboard, polyethylene film) is 100% recyclable. Disposal is the responsibility of the user and must be carried out in compliance with local regulations.

5.2 Disposal of the product in the territory of the European Union



The product is a device that falls within the field of application concerning the use of dangerous substances in electrical and electronic equipment and disposal of such equipment. The legislation provides for discarded equipment not to be disposed of in the normal solid urban waste stream. The symbol of the crossed-out bin, present on the product or on its packaging, indicates that the equipment (refrigerating unit, temperature regulator) must be the subject of a separate collection, in order to optimize the recovery and recycling rate of the materials that compose it and prevent potential damage to health and the environment.

It is the user's responsibility to dispose of the product by delivering it to a designated collection point for recycling and disposal of electrical and electronic equipment.

Please note that the body of the container and the door are made of recyclable material, and can therefore be eliminated in an environmentally friendly manner. The constituent materials of body and door are:

- Polyethylene (internal and external walls of the container or the door)
- Polyurethane (Insulating material between the walls of the container or the door)

For more information on proper disposal, contact the local waste disposal agency.

6. REFRIGERANT GAS

The refrigerant gas (HFC/HFO R452A) complies with European standards.

7. DECLARATION OF CONFORMITY

All the products are provided with instruction manual, CE declaration of conformity and technical data sheet.



Thank you for buying a MELFORM product!



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