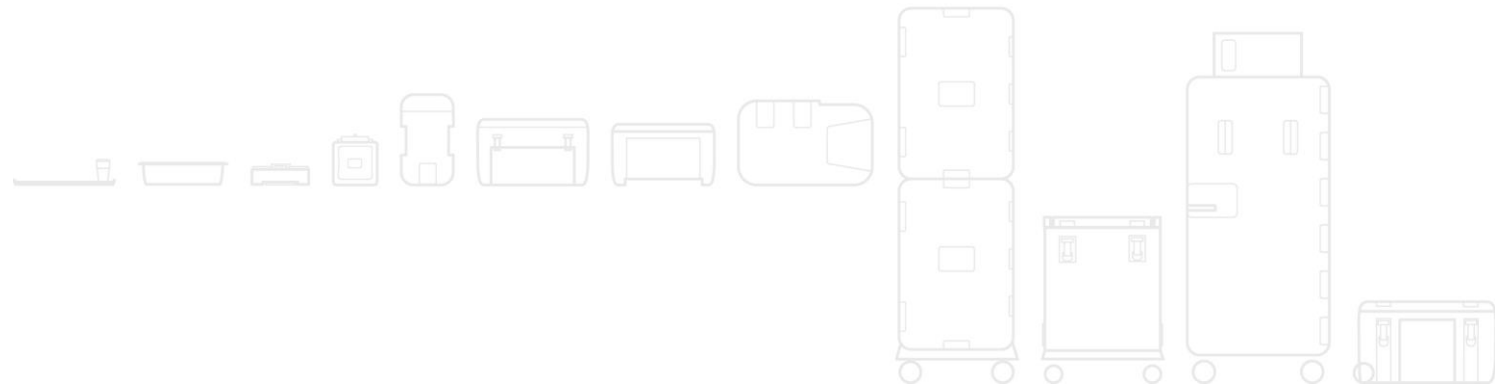


Active door

Use and maintenance manual





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1. INTRODUCTION

1.1 Area of use

The Active Door is a system of activation for several Melform Thermax Line isothermal containers (AF7, AF12, AF150). Its use, combined with the isothermal performance of the container, make it possible to prolong the maintenance of the temperature of the hot meals transported.

1.2 Consulting the manual

This manual has been arranged in such a way that the user can find all the information needed for quick and easy maintenance. Consequently it must be made available to maintenance staff and operators at all times. Therefore it must always be kept available to the personnel in charge of maintenance operations and operators.

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

1.3 Warranty

The product is guaranteed against manufacturing faults for twelve months from the date of purchase, as long as:

- it has always been used in compliance with the manufacturer's instructions.
- it has not been connected to an inadequate power source;
- it has not been damaged by improper use.

The warranty does not cover accidental damage during transport, due to negligence, improper use or failure to observe the contents of these instructions for use.

The warranty become null if the product is repaired or interfered with by unauthorized third parts.

Contact your local dealer or Melform sales offices for assistance or for the supply of original spare parts.

Active door is an exclusive Melform product.

The manufacturer reserves the right to change the characteristics of the models at any time, without prior notice.

Variations in color shades are possible.

2. WARNINGS

The product is built to the state of the art. All requirements for the safe and correct operation of the appliance have been satisfied.

It is recommend that all staff be trained in order to ensure that the product is destined exclusively to the uses for which it has been designed and used correctly as indicated in these instructions.

2.1 General recommendations

- The function of the group Active Door, combined with the isothermal performance of the container, is to prolong the maintenance of the temperatures of the meals in a warm bond. Therefore, different functions or methods of use are contraindicated.
- Handle with care during transport.
- For any repairs, contact only a technical assistance center authorized by the manufacturer and request original spare parts.
- **THE APPLIANCE WORKS CURRENTLY ELECTRIC. FAILURE TO OBSERVE THESE INSTRUCTIONS MAY BE CAUSED BY ELECTRIC SHOCK INJURY WITH LIFE HAZARD.**
- This product is intended for the exclusive use of adults and trained personnel; keep away from the reach of children.
- **WE RECOMMEND TO WEAR PROTECTION GLOVES TO AVOID THE RISK OF BURNS DURING THE USE OF THE ACTIVE DOOR UNIT.**
- Do not use the Active Door group as a system for bringing cold meals back to temperature.
- It is recommended to be used in an ambient temperature range between +10°C and 35°C and normal air humidity (without excessive formation of condensation).



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- If the appliance is taken from a cold store into a kitchen, the humidity contained in the air condenses on the surface of the appliance. When the appliance is connected, the layer of liquid which has formed may cause a short circuit or electrocution. Only activate the appliance when it has reached the ambient temperature.
- Periodically check that the appliance and the container are in good condition, in order to maintain the standard isothermal performances. In order to prevent the plastic of the container from polluting the transported product, dispose it if broken, damaged or cracked. Check the correct closure of the body/door and the presence and integrity of the gasket.
- Use only the power cable supplied by the manufacturer. Do not use the power cable if it is damaged. Do not rest the power cable on wet surfaces.
- Do not activate the Active Door unit if it has been dropped or damaged.
- Do not expose the Active Door to splashing water, rain, severe weather or aggressive and pollutant atmosphere (smoke, fumes).
- Do not install the appliance near to sinks or taps. Do not immerse the Active Door unit in water for any reason.
- Before carrying out any cleaning, maintenance, repair or any other operation on the appliance, disconnect the power supply.
- Do not wash the Active Door unit with steam jet or pressurized equipment.
- Do not obstruct the grid and vents.
- Do not store inflammable liquids in the container to which the appliance is fitted.
- Do not bring the container into contact with sharp or direct sources of heat (electric plates, open flames ...).
- Do not insert stainless steel trays or bowls freshly taken from the oven into the container, as their high temperature could deform the walls and the runners.
- Never preheat the empty container by turning on the heating unit for more than thirty minutes to avoid permanent damage to the container structure.

- After use, disconnect the cable from the mains supply. To disconnect the appliance from the power supply, grasp and pull only for the plug and not for the cable.
- In the event that the power supply fails during operation, disconnect the appliance from the power supply.
- Any modification made after the purchase on the Active Door group cancels the warranty.

IMPORTANT:

The manufacturer declines all responsibility if the accident prevention standards in force are not observed by the user company.

3. USING THE PRODUCT

3.1 Using the product for the first

- The container and the Active Door have been cleaned before being shipped from the factory. Before any use, it is however recommended to subject the body and the door to washing, following the procedures described in section 4.2 "Instructions for cleaning the Active Door body".
- Enclosed in a bag the seal has been provided to be placed in the appropriate seat on the door, so that it is held by the four retention pads present in the corners of the door. The gasket must always be used, because the incorrect or omitted positioning causes a notable decrease in isothermal performances.
- Before use, it is recommended to activate the Active Door group for 30 minutes with the door open, to eliminate any odor caused by the initial activation of electrical components. For commissioning the unit, follow the instructions given in paragraph 3.2 "Installation" and 3.3 "Commissioning".



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3.2 Installation

For information on the technical data of the Active Door group in use (power supply, protection fuses), refer to the data on the group, to the information reported in this manual and to the product sheet published on the website www.melform.com.

The active door must be supplied with a 230Vac power supply. 50Hz.

If the local mains voltage is too high or too low, the Active Door group will not work and the electronic device electronics may be damaged.

The power absorbed by the active door group is 200W (current consumption 0.87A).

The unit is protected by a cylindrical 5x20 3.15A fuse located on the 230Vac socket. 50Hz.

Connection to the 230Vac network 50Hz:

- check that the plug of the power cord is suitable for the electrical system socket;
- make sure that the socket is provided with an efficient earth contact and has an adequate capacity. The electrical safety of the appliance is guaranteed only when correctly connected to an efficient earth system; systems that do not comply with current regulations could cause damage to things and to people;
- do not use transformers c.a/c.a. to power the active group;
- do not use the appliance if the power cable is damaged; use only original network cables.

3.3 Activation

The appliance does not have a main On/Off switch and is switched on by directly connecting it to the electricity supply, as follows:

- remove the lid of the socket (Drawing 2), by pulling the appropriate tab;
- insert the socket of the power cable into the panel plug of the appliance;

- insert the mains plug into the 230V ac socket.

The Active Door unit is available with two different temperature regulations:

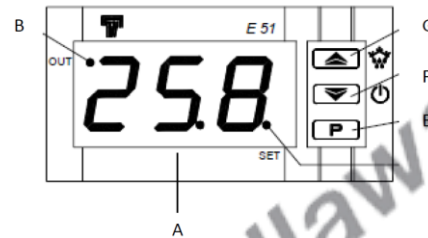
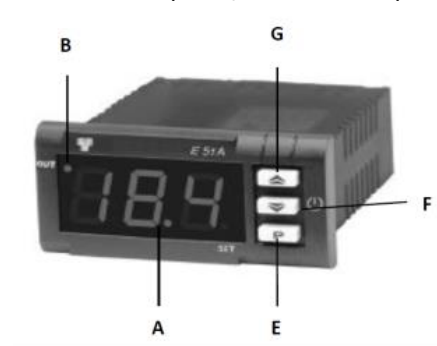
- non digital Active Door unit (K08C230I): model with temperature maintained constant at an approximate value of +75°C. The operational status of the appliance is indicated by a red light. The green light indicates that the appliance is connected to the electricity main.
- digital Active Door unit (K07C230I): model which allows temperature regulation within a range of +30°C and +85°C. (See paragraph 3.4 "Operation of the digital thermostat"). The working temperature is factory set to a value of + 75 ° C.

3.4 Operation of digital thermostat (Drawing 1)

- The digital thermostat is an electronic regulator to control the temperature of the heating unit, powered at 230V ac, in a range between +30°C and +85°C.
- When the appliance is switched on, the temperature indicator runs an auto test of the display (A), briefly indicating -88. The display (A) shows the actual temperature inside the container to which the heating unit is fitted. The red light (B) to the left of the first figure on the display (A) indicates that the heating is working. [The red light (C) on the heating unit does the same thing: when it is on, it means that the heating is working. The green light (D) indicates that the appliance is connected to the electricity main.]
- By pressing and releasing the UP button (E) the value of the nominal temperature setting value is displayed (flashing), i.e.: the temperature under which the heating starts working. The value set in the factory is +75°C. The display of the nominal temperature stops after about 10 seconds from the last time the buttons are pressed.
- To reduce the nominal temperature, press and release the UP button (E): the nominal temperature programmed will flash on the display. Repeatedly press the DOWN button (F): every time the button is pressed the nominal temperature is reduced by 0,1°C. If the DOWN (F)

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- key is pressed for over a second, the set-point value decrements quickly, to allow the desired value to be reached quickly.
- To increase the nominal temperature, repeatedly press the UP button (E). the set point temperature is displayed flashing, alternating with the word "SP". Then press the UP key (G) repeatedly: each press of the key increases the set-point temperature by 0.1 ° C. If the UP (G) key is pressed for over a second, the set-point value increases rapidly, to allow the desired value to be reached quickly.
- At the end of the adjustment, press the P (E) key to exit from the quick setting mode, or wait until the actual temperature appears on the display (about 15 seconds). The last set-point temperature setting is memorized automatically. By reconnecting the supply voltage after an interruption, the last set-point temperature remains active.



Drawing 1

3.5 Loading instructions

To make best use of the thermal performance of the Active Door unit, we recommend that you operate as follows:

- wear heatproof gloves to avoid the risk of burns;
- open the container door by acting on the appropriate closing levers;
- insert the food at a temperature not lower than 75 ° C; never insert incandescent metal bodies or at temperatures higher than 100 ° C to avoid permanent damage to the structure of the container.

- to avoid dispersion of thermal energy, it is advisable to avoid the fractioning of the loading operations and to use the container at full load;
- close the door by acting on the appropriate closing levers;
- provide for the electrical connection as indicated in paragraph 3.3 "Commissioning";
- the appliance connected to the power supply must be open only briefly, to insert or remove food;
- if the container is used at full load, no pre-heating. If, on the other hand, small amounts of hot food have to be transported, it is recommended to preheat the container with the door closed before proceeding with the loading operation. It is possible to preheat the container before use by inserting a basin containing hot water inside the container and closing the door. It is also possible to preheat the container by lighting the active door with an empty container: in this case the thirty minutes of preheating is never higher, to avoid permanent damage to the container structure.

3.6 Transport instructions

- Before moving the container make sure that the door is closed.
- The container may reach a considerable weight; therefore it is always best to lift it and manoeuvre it carefully, using , where necessary, trolley especially designed for this use; various models of maneuvering trolleys are available in the catalogue.
- During handling of the container, pay the utmost attention to avoiding collisions with people or things.
- In order to avoid annoying overflowing of the contents, it is recommended to not tilt the container during the handling phases and to place the container in a stable position on the means of transport used to make deliveries.
- Lift/transport the container only by the handles and never using the locking levers; if the container is lifted/transported using the locking levers, the door may open and the container may fall to the ground.
- Move the container possibly positioned on a trolley by acting on the appropriate handles.



- In the event that multiple deliveries using the same container, avoid prolonged openings, since each time a large dispersion of thermal energy occurs.

3.7 Instructions in case of prolonged disuse

If the container fitted with the Active Door unit is not used for a prolonged period of time, carry out the following operations:

- remove all the foodstuffs from the containers;
- pull out the plug connected to the electricity main and the plug connected to the appliance;
- store the cable in a safe place and protect it against moisture;
- fit the socket cap over the socket (Drawing 2, A);
- clean the Active Door unit as indicated in paragraph "Instructions for cleaning the heating unit";
- clean the body and the door without the heating unit as indicated in the paragraph 4.2 "Instructions for cleaning the Active Door unit";
- leave the door open for a few hours to prevent the formation of unpleasant smells.

4. MAINTENANCE

4.1 Instructions for cleaning the heating unit

Regularly clean the heating unit after use, observing the following instructions:

- Pull out the plug connected to the electricity main and the plug connected to the appliance;
- store the cable in a safe place and protect it against moisture;
- fit the socket cap over the socket (Drawing 2, A);
- wait for the Active Door unit to cool completely to avoid the risk of burns;
- unscrew the four supporting screws that fasten the heating unit to the container door, remove it and take out the seal;
- clean the heating unit using a damp cloth; for purposes of hygiene, dry with disposable cloths or paper (never reusable cloths);

- ensure that no water penetrates the regulation controls, vents or appliance socket; do not spray detergents onto the heating unit;
- refit the seal and the heating unit to the door of the container, fastening it in place using the appropriate screws.

4.2 Instructions for cleaning the Active Door unit

After removing the heating unit (see paragraph 4.1 "Instructions for cleaning the heating unit"), the container and the Active Door can be washed observing the following instructions:

- the water temperature must never exceed +100°C;
- do not use metal or synthetic scouring pads, only use soft brushes;
- do not use abrasive powder, ammonia, acid or solvent;
- soap is allowed
- separate the Active Door from the container to clean it thoroughly;
- remove the seal and wash it separately using the same solution used for the container and for the Active Door;
- when washing in a dishwasher, to avoid damage to the container ensure that the locks cannot be jammed in the rollers of the machine or between protruding parts, or come into contact with the inner walls of the machine;
- all the parts and components of the container and the Active Door must always be rinsed thoroughly;
- for hygienic use, after washing, always dry the container and the Active Door using warm air or disposable paper (never reusable cloths);
- never immerse or soak the container or the Active Door.

4.3 Maintenance instructions

Melform-Bonetto srl suggests a regular maintenance of the heating unit and the container to prevent breakage, increase the life of the container and preserve its operation.

Pull out the plug connected to the electricity main and the plug connected to the appliance before any operation. Store the cable in a safe place and protect it against moisture.



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The use of original spare parts is recommended at all times. Contact your local dealer or the Melform sales offices for assistance or for the supply of original spare parts.

ORDINARY MAINTENANCE

PART TO CHECK	FREQUENCY'	TYPE OF CHECK
Power cable and main plug	6 months	Check that they are neither damaged nor too old. Replace them if necessary.
Seal	6 months	Check the condition. Replace it if broken or worn.
Hinges and closing levers	6 months	Check the condition. Replace them if they are broken or damaged.
Socket cap	6 months	Check the condition. Replace it if it is broken or worn.

4.4 Solving problems

The table below lists the main faults found on the container heating group, with indication of the possible causes and interventions for the restoration.

Contact your local dealer or the Melform sales offices for assistance or for the supply of original spare parts.

Do not intervene on the heating unit if it proves to be under warranty: the warranty lapses if the product has been repaired or tampered by unauthorized third parties.

It is recommended to contact qualified technicians to restore the functionality of the heating unit and to contact your local distributor or Melform Sales Service for any assistance and for the supply of original spare parts.

FAULT	POSSIBLE CAUSE	TYPE OF INTERVENTION
The Active Door unit does not work with 230Vac power supply.	a) The Active Door unit is not connected to the 230V ca power supply	a) Connect the Active Door unit to the 230V ca power supply
	b) The 230V ca line fuse has blown	b) Fit a new fuse on the 230V ca line (see paragraph 4.5 "Replacing the protective fuse")
	c) The cable connecting to the power supply is damaged	c) Replace the cable
	d) The heating system has failed	d) Contact the service centre
The Active Door unit does not maintain the programmed temperature	a) The food introduced is not hot enough.	a) Heat food to a minimum temperature of 75°C before introducing it into the container.
	b) Small amounts of food are placed inside the container	b) Preheat the container before inserting food (preheat with a basin containing hot water or by turning on the heating unit for less than 30 minutes, to avoid permanent damage to the container)
	c) The door does not close properly	c) Controllare la chiusura della porta ed eventualmente sostituire la guarnizione
	d) The digital thermostat (where available on the version being used) is not correctly programmed	d) Check the digital thermostat setting and change the nominal value if necessary (see paragraph 3.4 "Operation of the digital thermostat")
	e) The fan does not work	e) Contact the service centre
	f) The fan heater system is faulty	f) Contact the service centre
The Active Door unit is too hot	a) The electric circuit does not work properly	a) Disconnect the appliance from the mains and contact the service centre
The Active Door unit is noisy	a) Noisy fan	a) Check the operating status of the fan and replace it if necessary or contact the assistance service

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The Active Door unit has fallen	<p>a) Do not operate the heating unit. Inspect the status of the components and contact the assistance service if any anomalies are found.</p> <p>If there are no particular problems, start the heating unit and monitor its correct functioning.</p>	
The digital thermostat (where available on the version being use) is not switched on	<p>a) The environment is too bright</p> <p>b) The mains power cable is damaged</p> <p>c) The mains power cable is damaged</p> <p>d) The digital thermostat electronics have failed</p>	<p>a) Cover the digital thermostat</p> <p>b) Insert the plugs into the right sockets</p> <p>c) Replace the cable</p> <p>d) Contact the service centre</p>
The digital thermostat (if present in the version in use) displays numbers outside the standard numbering	<p>a) The temperature probe is faulty</p> <p>b) The connection of the probe with the digital thermostat is not compliant</p>	<p>a) Check the temperature probe and contact the replacement service if necessary</p> <p>b) Contact the probe recovery assistance service if necessary</p>

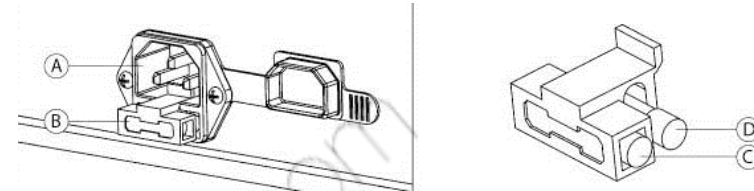
4.5 Replacing the protective fuse (Drawing 2)

The Active Door unit is equipped with a fuse drawer (B) located on the panel plug of the appliance (A). In the fuse drawer there are two 5x20 3.15A fuses, one of replacement (C) and one of work (D).

To replace the fuse, proceed as follows:

- pull out the plug connected to the power supply and the plug connected to the appliance;
- open the fuse box (B) using a tool (e.g.: the tip of a screwdriver);
- remove the working fuse (D);
- replace the working fuse (D) with spare(C); to extract the spare fuse (C), slide it in its housing using a fine tool (make provision for the replacement of the spare fuse (C));
- close the fuse box (B);

- plug in the plug connected to the appliance and the plug connected to the power supply.



Drawing 2:

Panel plug 230Vca 50Hz with cover / 230Vca fuse line 50Hz

5. PRODUCT DISPOSAL

5.1 Packaging

The packaging material (cardboard, polyethylene film) is 100% recyclable. The user is responsible for disposal in observance of the local regulations.

5.2 Disposal of the product within the European Union



The Active Door unit is an appliance within the field of application concerning the use of dangerous substances in electrical and electronic equipment and disposal of such equipment. The legislation states that the appliances must not be disposed of with solid urban waste.

The crossed waste bin symbol on the product or the packaging means that the appliance must be disposed of separately in order to optimise the rate of recovery and recycling of the component materials and prevent damage to health and the environment.

The user is responsible for disposing of the product, delivering it to a collection point for the recycling and disposal of electric and electronic appliances.

The body of the container and the door are made of recyclable material and can be eliminated in an eco-compatible way. Do not dispose of them carelessly at the end of their lifecycle. Dispose of them in compliance with the local regulations in force.



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The materials used to make the container are:

- 1- Polyethylene (inner and outer walls of the body and door)
- 2- Polyurethane (insulating material between the walls of the body and door, CFC and HCFC free)
- 3- Silicone rubber (seal)
- 4- Stainless steel (lock on AF7)
- 5- Polyamide 6 (locks on AF12, AF150, hinges)

For further information on correct disposal, contact the local waste disposal department.

6. TECHNICAL DATA

<i>Model</i>	K07C230I	K08C230I
<i>Power voltage</i>	230V ± 10Vc.a. 50 Hz	230V ± 10V c.a. 50 Hz
<i>Absorbed power</i>	200 W	200 W
<i>Current absorbed</i>	0,87 A	0,87 A
<i>Protective fuse</i>	5x20 3,15A	5x20 3,15A
<i>Presence of digital thermostat</i>	Yes	No
<i>Temperature regulation</i>	From +30°C to +85°C	setting at +75°C
<i>Protection class</i>	IPX4	IPX4

7. DECLARATION OF CONFORMITY

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



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