USE AND MAINTENANCE MANUAL

REV0 30/7/2023 PBCA0115GB

Active door heating doors

INDEX

1. INTRODUCTION

1.1 Area of application

ACTIVE DOOR heating doors are a hot activation system designed compatible with the AF7, AF12, AF150 isothermal container models of the THERMAX line.
Available in two versions, analog and digital, their use, combined with the isothermal performance of the container, makes it possible to prolong the maintenance of the temperature of hot bonded products.

1.2 Consultation of the manual

This manual has been designed to provide the user with all the essential information regarding the use and maintenance of the product, in an easy and quick way. It is recommended that the manual be kept available at all times to the personnel responsible for maintenance operations and to the operators involved in the use of the product.

It is emphasized that it is important to read the operating instructions carefully before putting the product into service, in order to ensure correct use and optimal performance.

1.3 Warranty

This product is covered by a warranty against manufacturing defects for a period of 2 years from the date of purchase, provided that:
- has been used in accordance with the manufacturer's instructions,
- has not been damaged due to improper use.

Accidental damage resulting from transportation, carelessness, misuse, or failure to follow the instructions in this manual are excluded from warranty coverage. The warranty will become void in the event that the product has been repaired or tampered with by unauthorized persons.

Please contact your local distributor or MELFORM customercare@melform.com customer service for any assistance and for the supply of original spare parts.

It should be noted that ACTIVE DOOR is an exclusive product of MELFORM. The manufacturer reserves the right to make changes to the characteristics of the models at any time without prior notice. In addition, it is possible that there may be variations in the color shades of the product.

2. CAUTION

The product has been designed and built in accordance with the latest state of technology, meeting all the necessary requirements to ensure safe and proper operation.

2.1 General Safety Rules

- The function of the Active Door group, combined with the isothermal performance of the container, is to prolong the maintenance of the temperatures of meals in warm bond. Different functions or modes of use are therefore contraindicated.

- Handle with care during transport.

- For repairs, contact only a technical service center authorized by the manufacturer and ask for original spare parts.

- **THE APPLIANCE RUNS ON ELECTRICITY. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN INJURY FROM AN ELECTRIC SHOCK AND MAY BE LIFE-THREATENING.**

- The use of the product is reserved for persons who have been trained and informed of the risks associated with the appliance. Keep out of reach of children.

IT IS RECOMMENDED TO WEAR PROTECTIVE ATHERMIC GLOVES TO AVOID THE DANGER OF BURNS WHEN USING THE ACTIVE DOOR ASSEMBLY.

- The Active Door group should not be used as a system to bring cold meals back to temperature.
- It is recommended to use the appliance at an ambient temperature of +10°C to +35°C and normal humidity (without excessive condensation).
- If the appliance is brought from a cold storage environment into a kitchen, the moisture contained in the air condenses on the surface of the appliance. When the appliance is connected, the layer of liquid formed in this way can cause a short circuit or electric shock. Only operate the appliance when it has reached room temperature.
- Periodically check the good condition of the appliance and the container in order to maintain the isothermal performance adequate to the standard. In order to prevent the plastic of the container from polluting the transported product, withdraw from use if it is broken, damaged or with cracks. Check the correct body/door closure and the presence and integrity of the gasket. Use only the power cord provided by the manufacturer. Do not use the power cord if damaged. Do not place the power cord on wet surfaces.
- Do not operate the Active Door assembly if it has been knocked, dropped, or damaged.
- Do not expose the Porta Attiva assembly to splashing water, rain, bad weather or aggressive and polluting atmospheres (fumes, gases).
- Do not install the appliance near sinks or faucets. Do not immerse the Active Door assembly in water for any reason.
- Before carrying out any cleaning, maintenance, repair or any other operation on the equipment, switch off the power supply.
- Do not wash the Active Door assembly with steam jet or pressurized appliances.
- Do not block the ventilation slots.
- Do not store flammable liquids in the container on which the appliance is mounted.
- Do not touch the Active door assembly with wet hands.
- Do not bring the container into contact with pointed, sharp surfaces or direct heat sources (electric plates, open flames, etc.).
- Do not place stainless steel trays or tubs in the container as soon as they have been removed from the cooking oven, as their high temperature could deform the walls and guides.
- Do not insert incandescent metal objects or metal objects at temperatures greater than 100°C.
- Never preheat the empty container by turning on the heating assembly for more than thirty minutes to avoid permanent damage to the container structure.
- After use, disconnect the cable from the power supply. To disconnect the appliance from the power supply, grasp and pull only by the plug and not by the cord.
- In the event that the power supply fails during operation, disconnect the appliance from the power supply.
- Any modification made after purchase on the active door group voids its warranty.

IMPORTANT:

The manufacturer would like to emphasize that it declines all responsibility in the event that the user company does not comply with the accident prevention regulations in force. Please scrupulously take all required safety measures while using the product, in order to ensure a safe working environment for the personnel involved. Compliance with accident prevention regulations is essential to prevent accidents and protect the health and well-being of all operators.

3. USE OF THE PRODUCT

3.1 First Use

The container and heating door underwent a cleaning process before being shipped from the factory. However, before using the container for the first time, it is recommended to wash it in accordance with the procedures described in paragraph 4.2 "Instructions for cleaning the Active Door body".

This precaution will ensure maximum hygiene and ensure that the container is ready for use safely and in accordance with the specific needs of the user.

Enclosed in a bag, the gasket was supplied 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, as incorrect or omitted positioning causes a significant decay in isothermal performance.

Before use, it is recommended to activate the Active Door assembly for 30 minutes with the door open, to eliminate any odor caused by the initial activation of electrical components. To commission the unit, follow the instructions in paragraph 3.2 "Installation" and 3.3 "Commissioning".

3.2 Installation

For information on the technical data of the Active Door unit in use (power supply, absorption, protection fuses) refer to the data on the rating plate on the unit, to the information in this manual and to the product sheet published on the www.melform.com website.
The Active Port assembly must be powered with a mains power of 230VAC 50Hz.

If the local mains voltage is too high or too low, the Active Port assembly will not function and the electronics of the appliance may be damaged.

The power consumption of the active door assembly is 200W (current consumption 0.87A).
The unit is protected with a 5x20 3.15A cylindrical fuse located on the 230Vvac. 50Hz socket.

Connection to the 230Vvac 50Hz:

- check that the plug of the power cord 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 flow rate. The electrical safety of the appliance is ensured only when properly connected to an efficient earthing system; systems that do not comply with current regulations could cause damage to property and people;
- do not use AC/AC transformers to power the Active Door assembly;
- Do not use the appliance if the power cord is damaged; Use only original network cables.

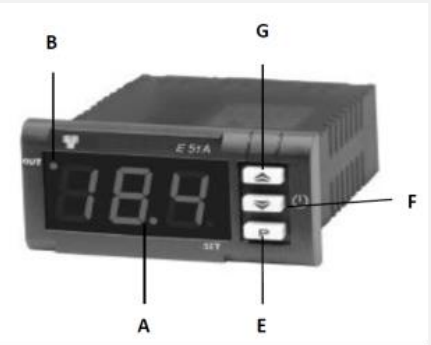
3.3 Commissioning

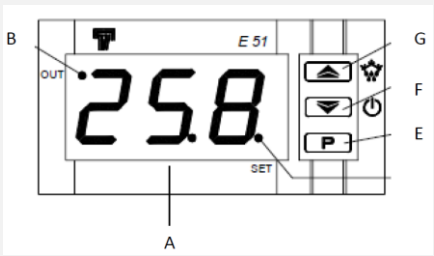
The appliance does not have a main On/Off switch, and is switched on by connecting it directly to the power supply, as follows:

- remove the plug cover from the panel (Drawing 2, A) by pulling the appropriate tab;
- insert the power cord socket into the panel plug of the appliance;
- insert the mains plug into the 230V AC socket.
- The Active Door group is available with two different temperature settings:
- analog active port group (K08C230I): model with temperature kept constant at a value of about +75°C. The operating status of the luminaire is indicated by a lit red lamp. A lit green lamp indicates that the appliance is connected to the mains.
- Digital Active Door (K07C230I) group: model that allows temperature regulation in a range between +30°C and +85°C. (See section 3.4 "Digital Thermostat Operation"). The working temperature is set at the factory to a value of +75°C.

3.4 Digital Thermostat Operation (Drawing 1)

- The digital thermostat is an electronic temperature controller designed to control the temperature of the heating unit powered by 230VAC, in a range between +30°C and +85°C.
- When the meter is switched on, the temperature indicator performs a self-test of the display, briefly indicating 888. Then the display (A) shows the actual temperature inside the container on which the heating unit is mounted. The red dot (B) at the top left of the first digit of the display (A) indicates that the heating is running. [The red light on the heating unit has the same purpose: when it is on, it indicates that the heating is in operation. The green light indicates that the appliance is connected to the mains.]
- By pressing and releasing the P button (E), the word "SP" is displayed (flashing) alternating with the value of the set-point setting, i.e. the nominal working temperature that you want to reach and below which the heating comes into operation. The factory set-point preset is +75°C. The set-point temperature display ends in time, after about 15 seconds, from when you finish working on the buttons.
- To reduce the set-point temperature, press and release the P (E) button: the set set-point temperature is displayed flashing, alternating with the word "SP". Then press the DOWN button (F) repeatedly: each button press reduces the set-point temperature by 0.1°C. If you press the DOWN button (F) for more than one second, the set-point value decreases quickly, allowing you to quickly reach the desired value.
- To increase the set-point temperature, press and release the P button (E): the set set-point temperature is displayed flashing, alternating with the word "SP". Then press the UP button (G) repeatedly: each press of the button increases the set-point temperature by 0.1°C. If you press the UP button (G) for more than one second, the set-point value increases quickly, so that the desired value can be reached quickly.
- When the adjustment is complete, press the P button (E) to exit the quick set-point temperature setting mode, or wait for the actual temperature to appear on the display (approx. 15 seconds). The last set-point temperature setting is automatically stored. When the power supply is reconnected after an interruption, the last set set-point temperature remains active.





Drawing 1

3.5 Loading Instructions

In order to make the most of the thermal performance of the Active Door assembly, it is recommended to operate as follows:

- wear protective thermic gloves to avoid the danger of burns;
- open the container door by using the appropriate closing levers;
- place the food at a temperature of not less than 75°C; however, do not insert incandescent metal objects or metal bodies at temperatures higher than 100°C to avoid permanent damage to the container structure.
- To avoid thermal energy loss, it is advisable to avoid splitting the loading operations and to use the container at full load;
- close the door using the appropriate locking levers;
- provide for the electrical connection as indicated in paragraph 3.3 "Commissioning";
- The appliance connected to the power supply must only be opened briefly to insert or remove food.

If the container is used with a full load, preheating is not necessary. If, on the other hand, small quantities of hot food are to be transported, it is recommended to preheat the container with the active 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 turning on the active door when the container is empty: in this case, never exceed thirty minutes of preheating, to avoid permanent damage to the container structure.

3.6 Transportation 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 and move it carefully, using the appropriate handles. If necessary, equip yourself with specific trolleys for use; Trolleys for handling containers are available in the catalogue.
- When handling the container, take the utmost care to avoid collisions with things or people.
- In order to avoid annoying overflows of the contents, it is recommended not to tilt the container during handling and to place the container in a stable position on the means of transport used to make deliveries
- Lift/carry the container by the handles only and never by the locking levers. If the container is lifted/carried by the locking levers, the door can open and the container can fall to the ground.
- Handle the container placed on a trolley using the appropriate handles.
- In the event that multiple deliveries are made using the same container, avoid prolonged openings, as a large dispersion of thermal energy is caused each time.

3.7 Instructions for prolonged non-use

If the container with the Active door group is not going to be used for an extended period, do the following:

- remove all food from the container;
- pull out the mains plug and the socket connecting to the appliance;
- store the power cord in a safe place and protect it from moisture;
- insert the cover onto the panel plug (Drawing 2, A);
- clean the Active Door assembly as indicated in paragraph 4.1 "Instructions for cleaning the heating unit";
- clean the body and door without the heating unit as indicated in paragraph 4.2 "Instructions for cleaning the Active Door body";
- Leave the door open for a few hours to prevent bad odors from forming.

4. MAINTENANCE

4.1 Heating Assembly Cleaning Instructions

- Clean the heating unit and container regularly after use, following the instructions:
- pull out the mains plug and the socket connecting to the appliance;
- store the power cord in a safe place and protect it from moisture;
- insert the cover onto the panel plug (Drawing 2, A);
- wait until the Active Door assembly has cooled down completely to avoid the risk of burns;
- unscrew the four threaded support knobs that block the heating unit to the container door, remove it and remove the gasket;
- clean the heating unit with a damp cloth; for hygienic use, dry with disposable cloths or paper (never reusable cloths);
- make sure that no water gets into the adjustment controls, ventilation grilles or appliance socket; Do not spray cleaning agents on the heating unit;
- Place the gasket and heating unit back on the container door, securing it with the four threaded knobs.

4.2 Active door Body Cleaning Instructions

Once the heating unit has been removed (see section 4.1 "Instructions for cleaning the heating unit"), the container and the door can be washed according to the following instructions:

- the water temperature must not exceed +100°C under any circumstances;
- do not use metal or synthetic scouring pads, use only soft brushes with plastic or natural bristles;
- do not use abrasive powders, ammonia, acids or solvents;
- soapy solutions can be used;
- separate the door from the container for more effective cleaning;
- remove the gasket mounted on the door and wash it separately with the same solution used for the container and for the door;
- when washing in the dishwasher, to avoid damage to the container and door, make sure that the latches cannot get stuck in the rollers of the machine, between the protruding parts, or come into contact with the inner walls of the machine;
- all parts of the container and door that are being washed must always be rinsed thoroughly;
- for hygienic use, always dry the container and door with warm air or disposable paper (never reusable cloths) after washing;
- Never submerge or leave the container or door submerged.

4.3 Maintenance Instructions

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

Before carrying out any maintenance, pull out the mains plug and the socket connecting to the appliance. Store the power cord in a safe place and protect it from moisture.
It is recommended to always use original spare parts.
Contact your local distributor or MELFORM Sales Service for any assistance and for the supply of original spare parts.

PRODUCT	PERIODICITY	CONTROL TYPE
Power Cord	6 months	Check that it is not damaged or too aged. If not, replace it.
Gasket	6 months	Check the conservative status. Replace it if it is broken or deteriorated.
Hinges and locking levers	6 months	Check the conservative status. Replace them if they are broken or deteriorated.
Panel Plug Cover	6 months	Check the conservative status. Replace it in case it is broken or deteriorated.

4.4 Troubleshooting

The table below lists the main anomalies that can be found on the heating unit of the container, with an indication of the possible causes and the interventions for restoration.

Contact your local distributor or MELFORM Sales Service for any anomalies not mentioned.

Do not work on the heating unit if it is under warranty: the warranty is void if the product has been repaired or tampered with 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 possible supply of original spare parts.

ANOMALY	POSSIBLE CAUSES	TYPE OF INTERVENTION
The Active door assembly does not operate on 230VAC power.	a) The Active door assembly is not connected to the 230VAC power supply.	a) Connect the Active door assembly to the 230VAC power supply.
	b) The fuse of the 230VAC line is faulty	b) Fit a new fuse on the 230VAC line (see section 4.5 "Replacing the protective fuse")
	c) The mains connection cable is damaged	c) Replace the cable
	d) The heating system is faulty	d) Contact the support service
The Active door group does not maintain the set temperature	a) Food is placed at too low a temperature	a) Heat food to a minimum temperature of 75°C before placing it in the container.
	b) Small amounts of food are placed inside the container	b) Preheat the container before putting in the food (preheat with a basin containing hot water or by switching on the heating unit for less than 30 minutes, to avoid permanent damage to the container)
	c) The door does not close properly	c) Check that the door is closed and replace the gasket if necessary
	d) The digital thermostat (if available in your version) is not set correctly	d) Check the setting of the digital thermostat and change the target temperature if necessary (see section 3.4 "Operation of the digital thermostat")
	e) The fan does not work	e) Contact the customer service
	f) The heating system is faulty	f) Contact the after-sales service

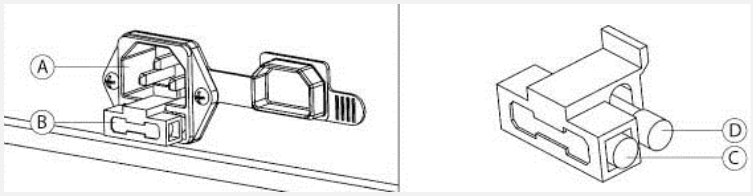
ANOMALY	POSSIBLE CAUSES	TYPE OF INTERVENTION
The Active Door group has fallen		a) Do not operate the heating unit. Inspect the condition of the components and contact service if any abnormalities are found. If no particular problems are found, put the heating unit into operation and monitor its correct operation.
The digital thermostat (if present in the version you are using) is not turned on	a) The environment is too bright	a) Dim the digital thermostat
	b) The mains connection cable is not connected	b) Connect the Active door assembly to the 230VAC power supply.
	c) The mains connection cable is damaged	c) Replace the cable
	d) The electronics of the digital thermostat are faulty	d) Contact the service department to replace the digital thermostat
The digital thermostat (if fitted in your version) displays numbers outside of the standard numbering	a) The temperature probe is faulty	a) Check the temperature probe and contact the service department for replacement if necessary
	b) The connection of the probe with the digital thermostat is not compliant	b) Contact MELFORM Service for probe reset, if necessary

4.5 Replacing the Protective Fuse (Drawing 2)

The Active Door assembly is equipped with a fuse drawer (B) located on the panel plug of the appliance (A). The fuse drawer houses two 5x20 3.15A fuses, one spare fuse (C) and one working fuse (D).

To replace the fuse, proceed as follows:

- pull out the mains plug and the socket connecting to the appliance;
- open the fuse drawer (B) with the help of a tool (e.g. the tip of a screwdriver);
- pull out the working fuse (D);
- replace the working fuse (D) with the replacement fuse (C); to remove the spare fuse (C), slide it into its housing with the help of a thin tool (if necessary, also replace the replacement fuse (C));
- close the fuse drawer (B);
- Insert the socket for the connection to the appliance and the plug for the connection to the mains



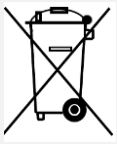
Drawing 2:
230VAC 50Hz Panel Plug with Cover/230VAC 50Hz Line Fuse

5. DISPOSAL

5.1 Packaging

The packaging material (cardboard corners, 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 active door group is a piece of equipment that falls within the scope of application relating to the use of electrical and electronic substances and equipment subject to specific disposal. The legislation stipulates that discarded equipment is not disposed of in the normal municipal solid waste stream.

The crossed-out wheeled bin symbol, present on the product or on its packaging, indicates that the equipment must be collected separately, 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 handing it over to a designated collection point for the 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 disposed of in an environmentally friendly way. At the end of their life cycle, they must not be dispersed in the environment, but disposed of in accordance with local regulations.

The materials that make up 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 the door, free of CFCs and HCFCs)
3- Silicone rubber (gasket)
4- Stainless Steel (AF7 Latches)
5 – Polyamide 6 (AF12, AF150 closures, hinges)

For more information on proper disposal, please contact your local waste disposal authority.

6. TECHNICAL DATA

Model	K07C230I	K08C230I
Supply voltage	230V ± 10VAC 50 Hz	230V ± 10V AC 50 Hz
Input	200 W	200 W
Current consumption	0.87 A	0.87 A
Protective fuse	5x20 3.15A	5x20 3.15A
Digital Thermostat Presence	Yes	No
Temperature regulation	+30°C to +85°C	Factory setting at +75°C
Protection class	IPX4	IPX4

7. CERTIFICATIONS

The product has undergone rigorous certification processes that confirm its high quality and safety. The following certifications attest to the compliance of the ACTIVE DOOR product with the highest standards:

1. HACCP certification: the ACTIVE DOORS group is suitable for use in HACCP environments, ensuring the control of food risks and maximum hygienic safety.

These certifications confirm that the ACTIVE DOORS group is designed and manufactured in such a way as to guarantee the highest quality and safety in the transport and storage of perishable food products.

Thank you for choosing a MELFORM product!

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