

AKE.324.006

**ELECTRICAL CONVECTION
OVEN CONTROLLER**

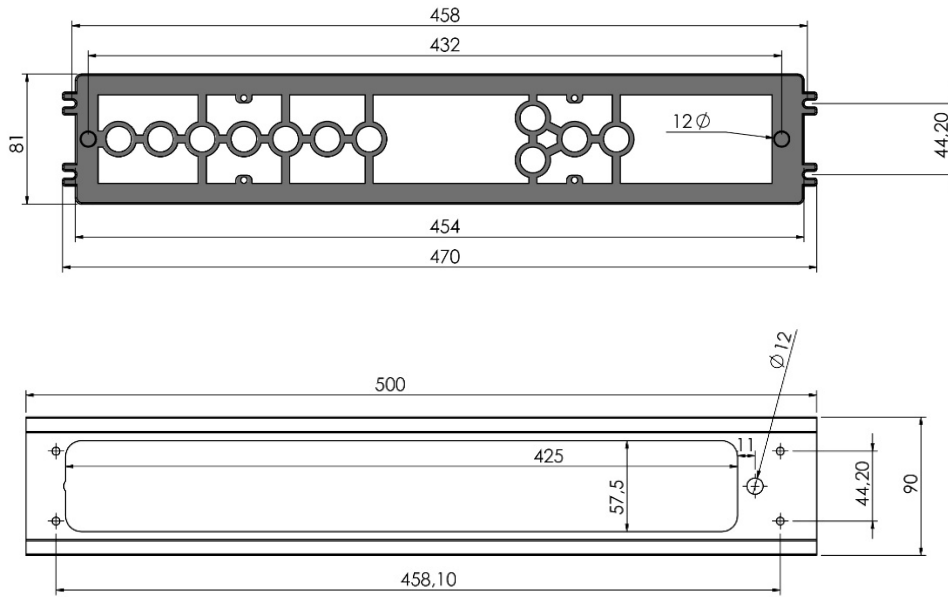
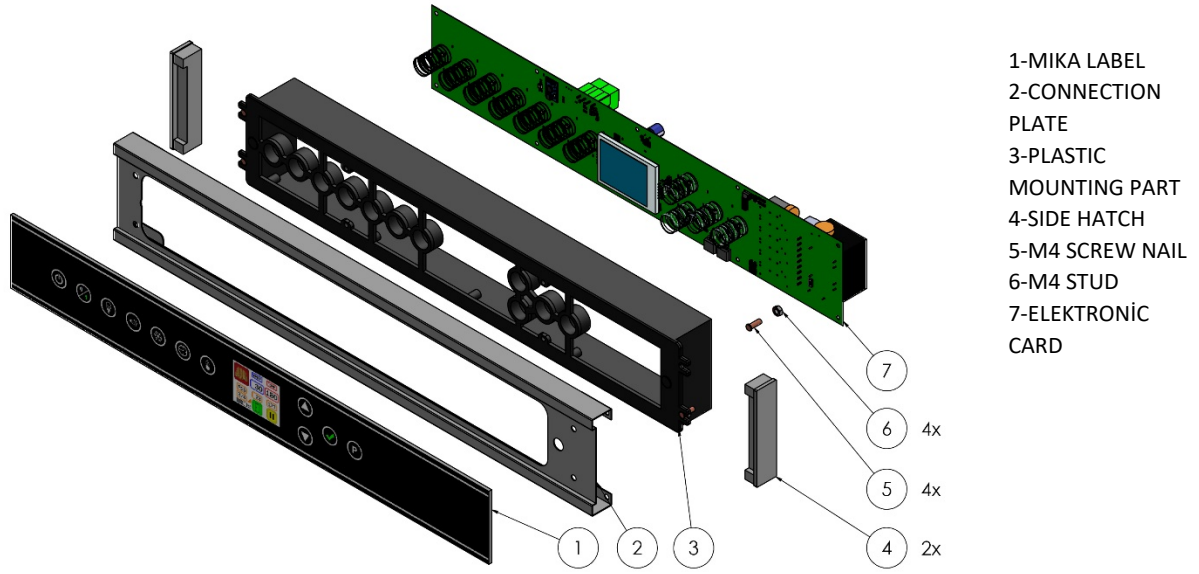
USER MANUAL



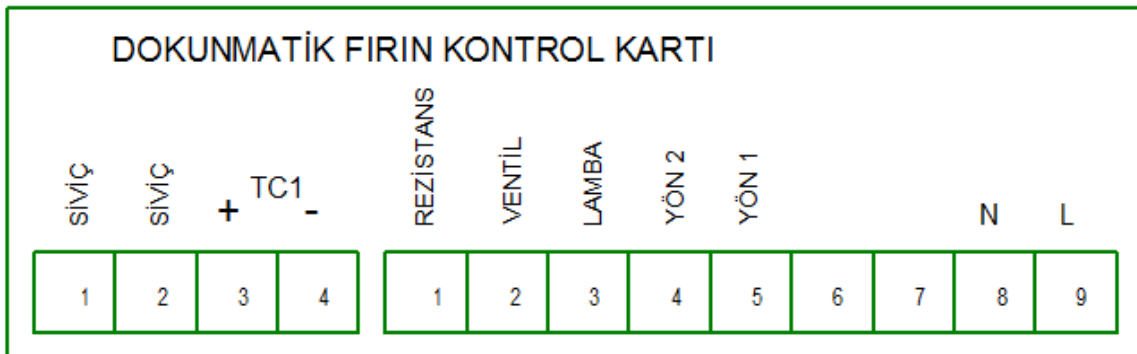
AKE TRONIC®

ELECTRONIC SYSTEMS

1.DEVICE DIMENSIONS



2.DEVICE CONNECTION DIAGRAM

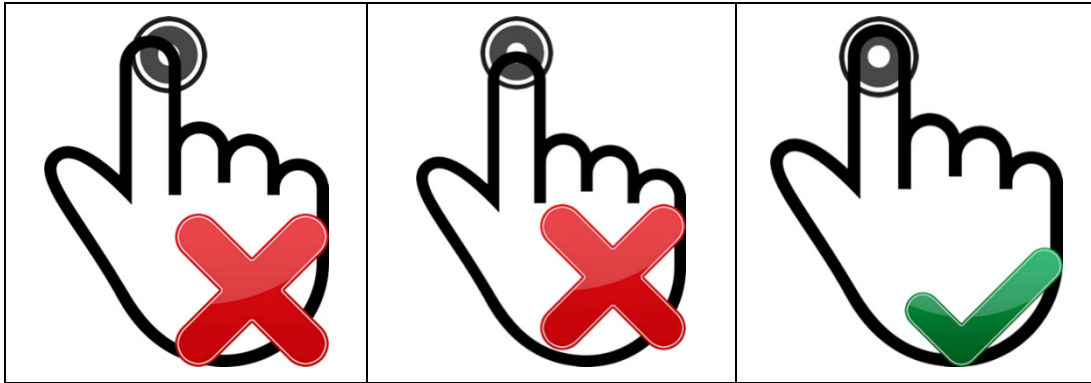


3. CAUTIONS

- Be sure to read the operating instructions before using the appliance and follow the instructions and cautions in the manual when using the appliance. Otherwise the responsibility for accidents and damages that may belong to the buyer.
- Installation and connection of the device should be done by experienced technicians in accordance with the diagram. Otherwise the responsibility belongs to the buyer.
- The operating ambient temperature of the device should be between 0 to 50 °C.
- The supply voltage must be checked before the device is energized.
- Precautions must be taken to prevent liquid flow into the device and metal chips to conduct. Otherwise, there may be accidents such as fire and electric shock.
- In case of any malfunction, do not interfere with the device. If the malfunction continues, notify the service in writing with the explanation.
- Electrical and mechanical precautions must be taken to prevent accidents and damages if the device is broken while being attached to the machine.
- Never remove the warranty label. Otherwise, your device is not covered by the warranty. The appliance must be repaired by authorized service personnel.
- The cables carrying the sensor and input signals to the device shall be prevented from being moved and influenced separately as far as possible from the inductive load cables operating as feed, control, switching.
- Shielded cables should be selected for the cables that carry the sensor and input signals to the device, and the cable shield must be connected to the ground.
- If more than one electronic device is used, separate feeder lines for each device must be towed. Insulation traces and line filters should be used on the supply line where there is excessive electrical noise.
- No control circuit should be connected to the device supply line.
- The appliance should be cleaned with a soft, damp cloth with a front panel. Thinner etc. do not use substances.
- Please do not use high-torque screwdrivers when mounting the device.

4. HOW TO USE TOUCH PANEL

- When the machine is power on, do not touch all buttons until the light of the On / Off button is on.
- As indicated in the following illustration



5. GENERAL FEATURES

It is an elegant and stylish control panel designed for running Electrical Convection Ovens . It provides ease of use with its high sensitivity touch buttons. It sets its users with technology with warning lights, audible warning system, and clear displays. The flexible, impact resistant, waterproof panel makes cleaning easier and its lifetime longer. Company-focused designs can be made with changeable visual design.

5.1 STANDARD TECHNICAL SPECIFICATIONS

- 2,4 inch, 320x240px resolution, 16 million coloured TFT screen
- 11 units LED illuminated touch button
- 5 units phase output (Max: 220VAC-10A)
- 1 unit dry contact digital input
- 1 unit thermocouple input
- 220-240VAC operating voltage
- Warning buzzer system
- 99 recipes feature
- Impact resistant, waterproof, joint protection front panel
- Customer specific desing
- Plastic enclosure




5.2 OPTIONAL FEATURES

- Different suply voltage 12-24V AC/DC

- Customer specific label and software

6.DEVICE FUNCTIONS

6.1 USAGE OF HOME SCREEN

	ON/OFF: In the case of oven has energy, please hold down the “ON/OFF” button to open/close oven.
	ACTIVATE/INACTIVATE: When the oven is “ON”, please hold down  button to activate or disactivate the oven.
	CONFIRMATION: Please touch confirmation button to save the alteration on oven values.
	TIME: Please touch time button to set the time on manual program.After setting the time with help of arrows, please touch confirmation button to save the alteration.
	TEMPERATURE: Please touch temperature button to set the temperature on manual program.After setting the temperature with help of arrows, please touch confirmation button to save the alteration.
	PROGRAM: Please touch the button to alter program number.During lights of arrows flash on and off, please touch confirmation button when the program number that you prefer come. Please hold down P button to access program settings menu.
	SETTING BUTTONS: Please use setting buttons to increase or decrease program number, temperature value and time value.
	LAMP: Please use lamp button to turn on/off lamp. When the lamp is active, the led on button is on.
	RAISE STEAM: Please touch the steaming button to raise steam when the oven is activated.During holding down the steaming button, raising steam operation continues. Oven gate must be closed to raise steam.
	REFRIGERATE: Please touch refrigerate button to activate refrigerate mode.Oven gate must be oen to activate refrigerate mode.

6.2 PROGRAM SETTING MENU

While the oven is standby, please hold down P button to access program setting menu.In the program menu , you can switch between program image, temperature, time and steaming time with help of the help of confirmation button.Please use setting buttons to alter related value.And then please hold down confirmation button to quit from program setting menu.

7.DEVICE ICON EXPLANATIONS

	Oven is active.
	Oven is pending
	Gate's close.
	Gate's open.
	Gate's open when oven is active.
	Regrigerate is active.
	Baking time is up.
	Waiting itme for raising steam again.

8.DEVICE MALFUNCTION SITUATION

A-1: Card failure

Solution: Energy should be closed and reopened.In the case of lasting failure, the card should be altered.

A-2: Card failure

Solution: Energy should be closed and reopened. In the case of lasting failure, the card should be altered.

A-3: Thermocuple is not installed or the temperature of area that is read by Thermocuple is more than 500°C.

Solution: Oven must be completely de-energised. Thermocuple connection, resistance relay and resistance contactor should be controlled.

A-4: Internal temperature of oven is more than 350°C.

Solution: Oven must be completely de-energised. Thermocuple connection, resistance relay and resistance contactor should be controlled.

A-5: Internal temperature of oven panel is more than 70°C.

Solution : Oven panel ventilation should be checked.

A-6: Oven control panel blows.

Solution: Oven control panel's braker should be checked and if needed it should be altered.

9.DEVICE CAUTION SITUATION

E-1: While the temperature below raising steam temperature (100 °C), raising steam button was touched.

E-2: Raising steam button was touched before raising steam period completed.(15sn)

E-3: While the gate is open, activation button was touched.

E-4: While gate is closed, refrigerate button was touched.

E-5: While internal temperature below the refrigerate temperature, refrigerate button was touched.

E-6: While the oven is not in standby, refrigerate button was touched.