

ECO-KITCHEN
by induction inside

IND Induction Cooker Series

ORIGINAL INSTRUCTION

CAUTION:READ THE INSTRUCTION BEFORE USING THE MACHINE

Middleby Food Service Equipment (Qingdao) Co., Ltd.

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WARNING: There is high voltage inside! Do not open the cooker!

WARNING: The induction cooker must be disconnected from power supply during clearing or maintenance and when replacing parts!

WARNING: If the glass-ceramic is cracked, immediately switch off the cooker and disconnect the power.

1. Safety Instructions

1.1 Risks of Negligence of Safety Information

This manual contains safety warnings and precautions on the installation, commissioning and operation of the induction cooker. Negligence of such information may lead to harms to people, environment and equipment, as well as potential risks as follows:

- Electric shock;
- Overheating of wok/pan.
- Overheating of cooker surface.

1.2 Safety Notes

The safety instructions contained in this manual, the applicable national regulations on the prevention of accidents as well as user s internal safety rules must be strictly observed.

1.3 Notice to User

- To prevent electrical shocks, the installation and electrical connection of the induction cooker must be performed by a qualified contractor as per national and local regulations.
- The heating zone has high temperature. To avoid injury (scalding), do not touch this area.
- To avoid dry heating (glowing) of wok/pan, don t leave the appliance on unattended. For the sake of safety, switch the power off.
- To prevent accidents caused by automatic heating of wok/pan, switch off the cooker before removing the wok/pan. This ensures that anyone who wants to use the cooker must switch it on him/herself.
- Don t insert any piece of paper, cardboard, cloth, etc. between the wok/pan and the heating area, as this may initiate a fire.
- Do not place metallic objects such as kitchen utensils, cutlery, cans, aluminum foil and keys on the hob surface within the cooking zone because such things can be heated

up quickly.

- Do not wear watches and rings as these objects can be heated up when in close proximity to the hob surface.
- People with heart pacemakers should consult with the manufacturer or physician before using the induction cooker.
- The entire unit must be reliably grounded. Once the cooker body or electric cable is found broken, immediately switch the unit off, disconnect the power and contact the manufacturer or its authorized servicing personnel.
- Do not place aluminum foil or plastic utensils on the glass-ceramic surface in the heating zone nor use it as storage.
- The contact surface of wok/pan must match that of the Coils module; otherwise, it may lead to reduced performance, malfunction and even damage to the induction cooker. Therefore, only those woks/pans supplied or recommended by the manufacturer can be used.

properly by the user.

- There is a small area at the bottom center of the wok/pan that heats slowly. To ensure that oil is evenly heated, stir the oil in the wok/pan.
- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Equipment for use in trades, professions, and which is not intended for sale to the general public.

1.4 Unauthorized Change and Part Replacement

Do not make any change to the induction cooker. If the induction cooker needs to be changed, please contact the manufacturer. For safety's sake, please use parts and components certified by the manufacturer. Use of any uncertified parts and components will void all the commitments and warranties of the manufacturer.

2. Foreword

Thank you for choosing our IND product. Before installation and use of this product, please read this manual carefully as it contains important information about the installation, operation and maintenance of the product. Please keep the manual in a place readily available for easy reference.

3. Product Features

IND series of 3-phase induction cookers have the features of strong, compact construction with a stainless steel enclosure, continuously controlled power and higher heating efficiency than conventional cookers. They also have the following unique features:

- Plug and Play design for convenient use;
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4. Technical Specifications

Power Supply

380-400 V 3~ , 3-phase 4wire, 50-60 Hz

Operating Frequency

20-40 kHz

Ambient Conditions

Temperature: Storage -40 +50 ; Operation +5 +40

Relative Humidity: Storage 10 90 ; Operation 30 90

Wire Requirements

3kW- 1.5mm²


8kW-10kW 2.5mm²


12kW-24 mm²

30kW-32 10mm²

Power cord shall be at least of ordinary polychloroprene sheathed cords
(code designation 60245 IEC 57)

5. Symbols and Instructions

 non-ionizing electromagnetic radiation

 dangerous voltage

 equipotentiality

6. Installation

IND induction cooker series are of plug & play type, which is ready for use after power and water supplies (if necessary) are connected.

6.1 Heat Radiation Requirements

- Adequate space shall be left in the back and bottom of the unit to allow free flow of air. Improper installation will result in blockage or decrease of airflow and poor radiation of heat;
- The air inlet and outlet should be at least 100mm from any peripheral object (such as wall and floor);
- The inlet cold air should not be mixed with the outlet hot air;
- The inlet air temperature should not exceed 40 °C ;
- The induction cooker should be away from other heat sources (such as gas cooker or halogen stove). In case several induction cookers are used, they should be at least 100mm apart from each other. Besides, it should be ensured that there is sufficient supply of cold air and the hot air discharged by cookers will not enter other cookers.

6.2 Fire Prevention

All objects in contact with the cooker should be made of non inflammable materials.

6.3 Requirements on Electrical Connection

- Check and make sure that the power supply is consistent with the rating on the nameplate of the product;
- The electrical connection must comply with existing national and local regulations;
- The electrical cable of the product must be connected to the power supply with an appropriate Circuit breaker.(The circuit limitation should be 1.5-2 times of the rating current)

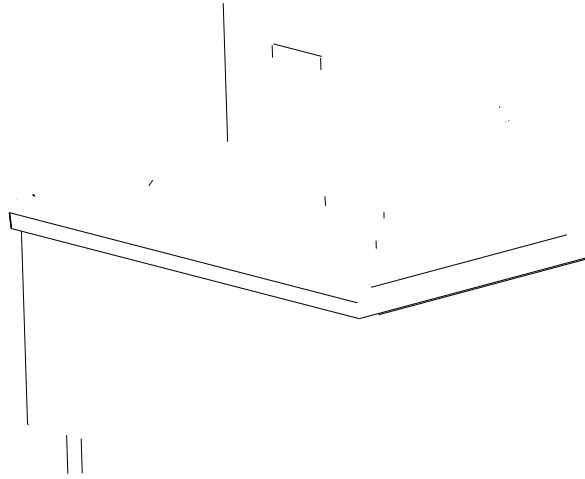
E8 08	Temperature of power module too high and the generator is working with reduced power.	Same as E3.
E9 09	Error of pan temperature sensor.	Consult professional personnel

EA 10 The voltage of power

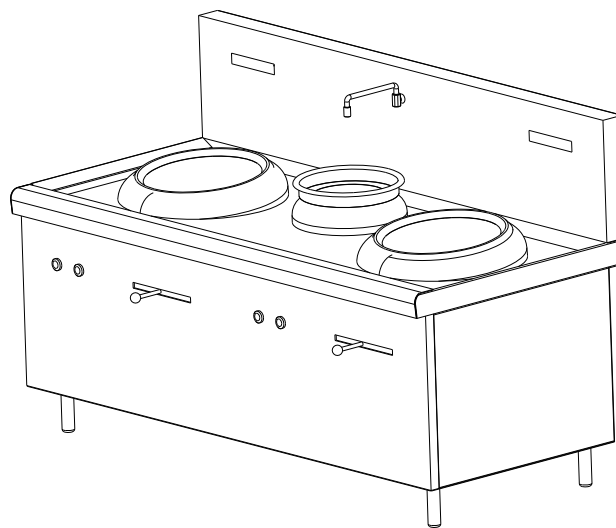
Possible Causes of Faults and Correcting Measures

Fault	Possible Cause	Correcting Measure
There is no heating, lamp or indicator is blinking	Error occurs.	Check the Error code list and follow the instructions.
There is no heating, lamp or indicator is off	No power supply;	Check whether the power cord is well connected.
	PCB/ Components are Broken	Consult professional personnel
Heating effect is good but indicator or lamp is off.	Lamp or Indicator is broken.	Replace the Lamp or Indicator Consult professional personnel
Switch does not work or the power could not be adjusted by rotating/sliding Switch.	Switch failure;	Replace the Switch. Consult professional personnel
Power becomes lower than normal power.	The power is limited by the program because the temperature of IGBT or Pan is rising too fast.	Wait for a moment; Avoid heating the empty pan. The pan/wok is not proper, please replace the pan/wok;
	The power is limited by the program because the ambient temperature is too high	Please try to improve the ambient conditions: Cool down the ambient temperature; Keep the induction products away from the hot sources; Check if the ventilation of induction products is good, or if the air filter is blocked.
	Inappropriate Internal Setting Parameters	Consult professional personnel

8. Installation and Operating Instructions



Single-burner



Double-burner

8.1 Installation:


Open the package and make sure that the appearance of the unit is in good condition.

Note:(Considering the safety of shipment, the rear panel is removed. After customer receives the machine, the rear panel should be installed first. *1* Remove 8 nuts from

bottom of rear panel, place rear panel to the installation place, fasten nuts in place.*2*
(Plug cable of fire display together and fasten nut into place.)

Place the unit at the installation place. Pay attention to the ventilation conditions.

Connect water supply to the inlet at the back of the range. Make sure that there is no leakage.

Lift the small panel, which is located on the lower part of the back panel. Insert the wires through the inlet and connect it to the terminal block according to the labeling: L1, L2 and L3 are the three phases,  is Earth. All connections must be secure.

8.2 Operating Instructions:

After the unit is powered on and there is no abnormal indication, it is ready for use.

Operate according to the following steps:

Place a wok into the range, and fill it with appropriate amount of water.

Note: The wok must be one designated by the manufacturer.

Connect it to the power supply.

Turn the handle to " On" to switch on the unit. The power level shown on the indicator is " 0" .

Depending on the food to be cooked, turn the sliding switch slowly to an appropriate position between " 0" and " Max" . A corresponding number will be shown on the indicator.

After use, turn the handle to " Off" and cut off the power.

Points for Attention

After use, the panel must be cleaned to prevent malfunction due to oil contamination.

Keep water, soup or other liquid from entering the stove. Otherwise, it will cause damage to the components.

A 3-phase power supply with stable and well-distributed output voltage should be used.

Keep children from operating the stove to prevent scalding.

Do not use the device when the panel is broken.

9. Cleaning & Maintenance

To prevent scalding, do not clean the panel when the surface is hot.

Stains and Removing Method

Stain Type	Removing Method
Slightly soiled, without burning remnant	Wipe clean with a wet cloth, without using cleaning agent.
Sticky substance	Scrape with a wooden scrapper and then wipe clean with a wet cloth.
Scale formed by spilled boiling water	Clean with vinegar or special cleaning agent.
Oil-resistant strainer blockage	Soak the strainer in warm water with cleaning agent, and then clean with a brush.
Sugar, sugary food, plastic and aluminum foil	Remove with a wooden scrapper while the stain is warm, then clean with a cleaning agent. Caution! Avoid scalding.

Other maintenance and servicing work than cleaning and maintenance should be conducted by designated service providers.

Important: Avoid leakage of liquid into the induction cooker. Do not flush with water nor clean with steam cleaner.

10. Regular Servicing

To keep the induction cooker in good condition and extend its service life, it should be cleaned, maintained and serviced on a regular basis.

The grease filter of the induction cooker must be cleaned at least once every three months.

The induction cooker must be checked by authorized technical personnel at least once a year.

Danger! Do not open the induction cooker. There is high voltage inside!

The induction cooker can be opened by authorized personnel only.

11. Waste Disposal

To avoid misuse, all discarded electrical devices must be disposed of properly and safely by the user.

Do not use uncertified or discarded induction cookers.

Our products are made of regular materials. No battery is used inside the products.



Note: The right of interpretation of this User s Manual belongs to Qingdao Middleby Induction Co., Ltd. The company also reserves the right to make changes to the specifications and information contained herein without further notice.

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