



# **IND Induction Cooker Series**

# User's Manual original instruction

CAUTION: READ THE INSTRUCTION BEFORE USING THE MACHINE

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| WARNING: There is high voltage inside! Do not open the c | ooker!         |  |
| WARNING: The induction cooker must be disconnected       | I from power   |  |
| supply during clearing or maintenance and when replacing | g parts!       |  |
| WARNING: If the glass-ceramic is cracked, immediately s  | 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.
- Don't place credit cards, phone cards, passenger cards, cassette tapes or other magnetic objects on the surface of the induction cooker.
- There is air cooling system in the induction cooker. To avoid overheating induced shutdown, do not block the air vents.
- Do not let any liquid enter the cooker. Do not spill water or food over the wok/pan. Do
  not flush the cooker with water. Do not clean the cooker with a steam cleaner.
- Operation beyond the rated values and limits of the induction cooker will result in unreliable operation and even damage. It is advised that the cooker operate at full power, i.e. the power regulator is set to the maximum scale. Select between "3" and "5" when slow fire is required.
- Never turn the induction cooker on and off frequently without any purpose as this may
  cause damage to the electrical circuit and shorten the service life of the cooker.
   Normally, the cooker should not be restarted within 3 seconds after it is shut down.
- The induction cooker should be cleaned, maintained and serviced on a regular basis to keep it in good condition and extend its service life.
- There is high voltage inside the cooker. It can only be opened by authorized servicing personnel.
- To avoid misuse, all discarded electrical devices must be disposed of safely and



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;
- Schott glass-ceramic panel, excellent thermal shock performance, sleek aesthetic design for easy cleaning (excluding steamers);
- Modularized design;
- Electronic circuit with automatic monitor & control and multiple safety protection;
- High efficiency and large power to save cooking time and energy;
- Compact size and light weight;
- Customized designs.



# 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°C ~+50°C; Operation +5°C ~+40°C

Relative Humidity: Storage 10%~90%; Operation 30%~90%

> Wire Requirements

3kW-8kW≥Ф1.5mm<sup>2</sup>

 $8kW-10kW \ge \Phi 2.5mm^2$ 

12kW-24kW≥Φ6mm²

30kW-32kW≥Φ10mm<sup>2</sup>

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)



# 7. Troubleshooting

The cooker can only be opened by authorized servicing personnel.

In case the glass-ceramic panel breaks or cracks, immediately switch off the cooker and disconnect the power. Never touch any exposed part inside the cooker.

When malfunction occurs, the indicator will blink and give some information as follows:

| Code      | Meaning                     | Remarks   |  |
|-----------|-----------------------------|---|--|
|           |                             | 1) There is no wok/pan or wok/pan is improper, place proper         |  |
| E1 (01)   | No Pan                      | wok/ pan on the cooker;   |  |
|           |                             | 2) Consult professional personnel                                   |  |
| F2 (22)   | Over-current in Coils       | Change the utensil with more ferrous material                       |  |
| E2 (02)   | Over-current in Cons        | 2) Consult professional personnel                                   |  |
|           |                             | 1) Long working hours in high ambient temperature (>38°C).          |  |
|           |                             | Cooling needed.   |  |
|           | Over-temperature of power   | 2) If ambient temperature is not high, check if the air-inlet and   |  |
| E3 (03)   | module, the equipment not   | air-outlet is blocked, of if the warm air from outlet can be sucked |  |
|           | working                     | into the inlet.   |  |
|           |                             | 3) Check if the cooling fan of the generator works properly.        |  |
|           |                             | 4) Check if the grease filter is too dirty.                         |  |
| E4 (04) c | Pan temperature too high,   | 1) Check if the earling for of the early works properly             |  |
|           | causing the equipment to    | Check if the cooling fan of the coils works properly.               |  |
|           | stop working.               | Oil temperature in the pan too high. Lower the power level.         |  |
| E5 (05)   | Damage of power             | Set the power level at "0" position before use.                     |  |
|           | potentiometer, or the power | 2) Problem of the power control, Consult professional               |  |
|           | level is not set at the "0" | personnel   |  |
|           | position.                   |   |  |
| _         | Reserve                     |   |  |
| E7 (07)   | Error of temperature sensor | Consult professional personnel                                      |  |
|           | of the power module.        |   |  |



| 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 supply is too low.   | <ol> <li>Ensure proper voltage.</li> <li>Ensure proper wiring.</li> <li>Consult professional personnel</li> </ol>  |
| _       | Reserve   |  |
| EC (12) | Over temperature of coils, the generator stops working.                               | <ol> <li>Check if the cooling fan of the coils works properly.</li> <li>Oil temperature in the pan too high. Lower the power level.</li> </ol>                                     |
| ED (13) | Error of Coil temperature sensor.   | Consult professional personnel   |
| _       | Reserve.  |  |
| EF (15) | Surge protection  | <ul> <li>If this does not happen frequently, ignore it, because automatic restart will be effected.</li> <li>If this happens frequently, Consult professional personnel</li> </ul> |
| E (16)  | Hard protection of driving board.   | Consult professional personnel   |
| EP (17) | Error of Hall sensor  | Consult professional personnel   |

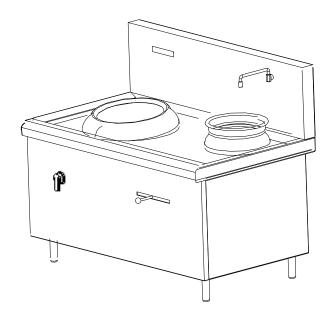


# **Possible Causes of Faults and Correcting Measures**

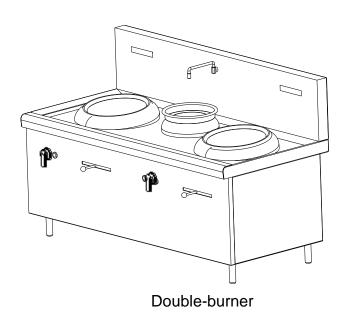
| Fault   | Possible Cause   | Correcting Measure   |
|---|--|--|
| There is no heating, lamp or indicator is blinking                                  | Error occurs.  | Check the Error code list and follow the instructions.   |
| There is no heating, lamp or indicator is off                                       | 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



#### 8.1 Installation:

① 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.)

- ② Place the unit at the installation place. Pay attention to the ventilation conditions.
- ③ Connect water supply to the inlet at the back of the range. Make sure that there is no leakage.
- ④ 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.

- 2 Connect it to the power supply.
- $\ensuremath{ \ \ \, }$  Turn the handle to "On" to switch on the unit. The power level shown on the indicator is "0".
- ④ 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.
  - ⑤ 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.



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