Quantum Microbubble Fryer User's Guide



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Caution

- * Please follow the instructions given below to prevent unexpected danger or damage by using the product safely and correctly.
- * Precautions related to safety are classified as follows according to the magnitude of expected danger and damage if used incorrectly, and the degree of urgency of the danger.
- Violation of warning instructions is likely to cause serious injury or death.
- **■** Violation of caution instructions is likely to cause minor injury or product damage.

Warning

1. No manipulation of children's access

* Keep away from children to prevent operation. Risk of fire or burns.

2 Prevention of electrical accidents

- *If you feel a slight leakage current in your body, turn off the circuit breaker and contact the customer service center.
- *There is a risk of electric shock or fire if the operation is continued.
- *Make sure it is grounded.

3. How to deal with abnormal overheating and smoke

- * In the event of a fire or signs of abnormalities such as smoke or oil burning during use, stop using the product immediately and switch it off, or lower the appropriate breaker on the switchboard.
- * There can be bigger problems such as fire, casualties, etc.

4. Shut down when going out and leaving work.

- * When not in use, turn off the power switch and turn off the switchboard breaker.
- * It may cause a fire due to external requirements such as abnormal overvoltage.

5. Observe at all times during cooking.

- * Never fall asleep or leave your seat while cooking.
- * There is a risk of product damage or fire due to overheating.

6. Actions to be taken in case of abnormal overheating or smoke

- * In the event of a fire or signs of abnormality, such as smoke or oil burning, stop using immediately and switch off the product, or lower the appropriate breaker on the switchboard.
- *Bigger problems such as fire and casualties may occur.

7. Disassembly, repair, and modification prohibited

- * Never disassemble repair or modify.
- * Risk of electric shock, injury, or fire due to abnormal operation.

8. Prohibit non – professional product installation

- * When installing the product, a qualified person should install it.
- * Any electrical connection may cause a fire or product failure; we are not responsible for this.
- * Install electrical circuit breakers per product for 50A.

Warning

9. Do not stack objects under the appliance

- * Do not load oil cans, boxes, etc. under the machine.
- * Moisture objects can cause mechanical failure.

10. Do not put ice or water in hot oil

* When ice or water is put into the oil tank, there is a risk of burns due to oil splashing or boiling.

11. Prohibition of access to a flammable substance

- * Do not place flammable substances next to the product.
- * There is a risk of fire or explosion due to hot oil.

12. Normal installation of the product

- * Install the product in a firm and level place.
- * Install in a place where there are no high-heat generation devices around the product.

13. Move separately when discharging waste oil (when using oil tank)

- * If drain oil once, it may cause strain on the human body when carrying it, so make sure to drain it twice.
- * Be sure to drain the oil after the oil has cooled down.

14. Be careful of burns when draining waste oil

- * Make sure to stop the operation before discharging the oil. It may cause a fire.
- * Slowly rotate the oil drain handle when pouring. If turn the oil handle in a hurry, there is a risk of burns due to oil spattering.

15. Do not leave the oil in the tank for a long time

* If fill it with oil for a long time, the quality decreases due to oxidation, so can't cook it to the taste you want.

16. Observations before draining waste oil

* When draining oil, check whether there is a waste oil tank on the side of the product before draining the oil.

Warning

17. Beware of body burns

- * Do not shake the basket when cooking or oil the dishes with hands or parts of your body touching the fried oil.
- * Handle with care after cooking. There is a risk of burns.

18. Thorough product maintenance

- * Check for aging and abnormalities with regular inspections.
- * Do not pour or spray water on the product when cleaning the product. (Excluding inside oil tank)
- * Can have a significant impact on fire and product damage.

19. Installation in a well-ventilated place

- * Install the product in a well-ventilated place.
- * Install an exhaust system so that steam and odor generated during cooking can be discharged to the exhaust hood.

20. Use of other uses is dangerous

- * Do not use it for purposes other than cooking (washing, heating, etc.)
- * There's risk of fire.

21. Do not run an empty tank

- * Make sure that the oil tank is filled with water or oil before starting the operation.
- * If operated without water or oil, internal overheating may cause ignition, product deterioration, or fire.
- * When cooking for a long time, the oil in the tank may decrease and catch fire, so always replenish up to the marked line.

22. Do not use thinner or benzene when cleaning

- * Do not use thinner benzene, or wax when cleaning the product.
- * It can cause damage to the appearance of the product, such as discoloration and peeling.

23. Do not install in places where water can splash

* If water enters the power cord and control unit, there is a risk of malfunction and short circuit.

24. Do not reuse oil in semi-finished fryer

* The oil used in the breastfeeding fryer contains a large amount of water and moisture, so there is a risk of explosion when reused in a general product fryer.

Installation method

- 1. To use the product cleanly and for a long time without failure, install it in a well-ventilated and low-humidity place.
- 2. Please select a place where there is no risk of fire.
- 3. Install in a non-combustible area around the installation site, leaving some space (20cm) on the side and back.
- 4. Be sure to install an exhaust hood.
- 5. Install on a flat and hard floor.
- 6. Install a heat sink on the back wall when installing.
- 7. Make sure to consult a qualified contractor when installing.

 (Observe the electrical standards-install a power cable (10mm/2) and an earth leakage breaker of 50A or more for safety)
- 8. Pay attention to leaks when connecting water pipes.
- 9. Do not arbitrarily change electricity and water supply if unavoidable, contact customer service.

Installation method

1. Wire thickness should be more than 5 SQ of twisted pair.

(Make sure that the crimp terminal or contact surface of the connection part is well tightened.)

2. In the case of 3-phase, connect to the terminal with 4 lines eat of R S T N. (380V)



3. In the case of single phase, connect R S T and use it with T and N.(220V)



4. Use a switch with a capacity of 30A or more.

Caution

- * When cleaning, make sure to turn off the electric circuit breaker and clean after the temperature fryer has completely cooled down.
- * When cleaning, be careful not to allow water to enter the control panel.
- * Daily cleaning can prevent the oxidation of oil and remove odors.
- * Clean the oil temperature sensor, water temperature sensor, and water measurement sensor installed in the inner container when cleaning.

 (Prevent sensor measurement errors)
- * Wash the oil and water windows about once a month and tighten them well so that the glass does not break when assembling.

1. Turn off the frying pan and clean up the surrounding until the temperature drops by 130°C.

2. When the temperature of the fryer reaches 130°C, spray it with direct water (cooled, hot water) until it reaches 100°C or less.



- 3. When the temperature is below 100°C (70°C is better), drain the water and adjust the cooking oil drainage.
 - * Use a filter when draining.
 - * Drain directly into the drain.



- 4. Keep cooking oil in storage.
 - * Use an empty cooking oil container.
 - * Cooking oil is reused.
- 5. After the cooking oil is drained, clean it with direct water.



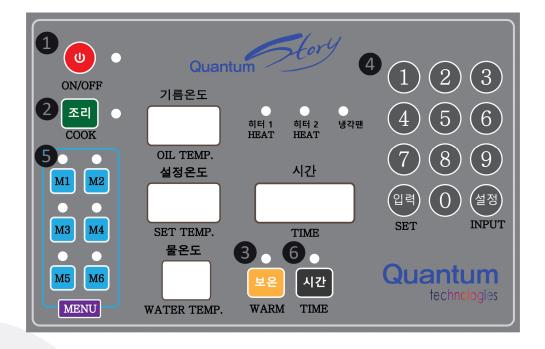


- * Before using the fryer for the first time, must check that the product is properly installed without any problems.
 - 1) Is the fryer installed in a horizontal and safe position?
 - 2) Electrical-Is the rated voltage and rated capacity connected?
 - 3) Water-water pipe connection properly connected without leakage?

How to use

- 1. Fill with water up to the water line marked on the front gutter.
- 2. Fill with the appropriate amount of cooking oil.
 - * If the amount of oil is too small, food ingredients may burn or fire may occur.
- 3. When the power (ON/OFF) button on the control panel is pressed, the lamp on the display window turns on.
- 4. When pressing the "Setting" button on the control panel, the "Setting temperature "display window blinks.
 - * After selecting the desired cooking temperature, press the "Enter" button.
 - * The set temperature display window blinks and then stops, and the setting is completed.
- 5. Press the "COOK" button to start heating the heater.
 - * Heaters 1 and 2 are operated sequentially and cooling fans are operated at the same time.
- 6. When the set temperature is reached, press the "Time" button and select a cooking time.
 - * Select a cooking time and press the "Enter" button to counter the cooking time, an alarm will sound 10 seconds before the end time and the alarm will end at the end time.

Functional Description



KEY Function	How it works	Display
1. Power(ON/OFF)	Power ON/OFF function of the control panel *Cooling fan operation	Power LED FAN LED
2. COOK	ON/OFF operation of heating heater according to temperature	Cook LED HEAT 1 HEAT 2
3. WARM	If selected when not cooking for a certain period, the temperature of the oil is maintained at 120°C	LED
4. NUMBER KEY	10 numeric keys from 1 to 0 when setting Temperature or cooking time	DISPLAY
5. MENU	Select and store the appropriate cooking temperature from M1 to M6 for use Ex) Press the M1 button, press the set temperature, and press the input button to save the temperature	LED
6. TIME	Use as a cooking timer function Ex) Press the "TIME" button, press the set time, and then press the input button to display the timer operation times as an addition or subtraction until the end time. *10 seconds before the end, the melody operation ends and then stop	DISPLAY

Inspection Method

► ERROR DISPLAY

- 1. E1: When the oil temperature sensor is disconnected or shorted
- 2. E2: When the water temperature sensor is disconnected or shorter
- 3. E3: When the oil temperature is over 200°
- 4. E4: When the water temperature is above 60°0
- 5. E5: When the water level is lowered to an appropriate level

Machine Failure Symptoms	Causes of Machine Failure	Action Point
The circuit breaker goes down	Insufficient and defective electrical capacity Bad connection wiring contact Heater insulation breakdown	Check the circuit breaker. Check connection wiring tightness. Need to request an inspection.
Fryer temperature does not rise	Abnormalities in the heater Insufficient wiring capacity PCB abnormality	Heater check abnormal Wiring replacement PCB abnormality
Low water alarm	Shortage of water	Replace or clean the sensor
E1	Oil sensor disconnection or short circuit	Sensor replacement
E2	Water temperature sensor disconnection or short circuit	Sensor replacement
E3	Oil temperature is over 200°C	Control check and oil temperature sensor check
E4	Water temperature is over 60°C	Control check and water temperature sensor check
E5	Warning due to low water level	Check low water level sensor

Product Specifications

MODEL	JIN – 1000	JIN-2000	JIN-3000
Product size (W * D * H)	450 * 530 * 1020	520 * 670 * 1020	680 * 670 * 1020
Amount of oil / water	22L / 17L	34L / 30L	45L / 36L
Tank size (mm)	Diameter 350	400 * 400	570 * 400
Power	220V 60 Hz	220V 60 Hz	220V / 380V
Power Consumption	2.8 KW	5.5 KW	10 KW
Temperature control range	0 ~ 190 °C	0 ~ 190 °C	0 ~ 190 °C
Characteristics	Cylinder round style Easy to clean	Cooling oil and water at the same time	Detachable Oil/water cooling fan