Foreword

The commercial ice cream machine produced by our company adopts an all-digital computer control system, famous brand high-quality electrical components, and advanced production technology, and has a variety of colors to choose from, which is easy to operate, safe and reliable. The ice cream machine has a high puffing rate and a high output, and the made ice cream tastes smooth and delicate. Our ice cream machines are widely used in catering service industries such as cold drink shops, fast-food chain stores, western restaurants, groceries stores, and other food service industries.

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Safety Precautions

- I. The Unpacking and Inspection of New Machines
- 1) Cut and unpack the straps and planks that secure the carton; Remove the carton and foam board ,and remove the bag to see if the machine is damaged; (**Note:** The machine must not be tilted more than 45° during handling)
- 2) Open the cylinder head and check if the accessories are complete against the packing list.

II. Using Environment

- 1) Minimum ambient temperature: 5 ° C, maximum ambient temperature: 35 ° C. Do not use it in places where is wet and it will be wet by rain. Do not use it in a place with a lot of sulfuric acid such as hot springs or in a place with a lot of salt such as the bay.
- 2) The material temperature is at least 5 degrees and the highest is 40 degrees. Low-temperature storage is recommended to improve the efficiency of ice cream production.
- 3) Choose a well-ventilated location, on a level and solid surface.
- 4) There should be at least 80 cm of space behind the ice cream machine, and there should be no less than 30 cm of space left and right on each side to allow cold air to enter the machine and allow hot air to escape, to ensure the condensation cycle of the machine. Clean the dust on the condenser regularly.

Note: The machine will inevitably be shaken during transportation. It is best to use it 4 hours after smoothing.

III. Electrical Connection

1) According to the required power, determine the wire size used in the connection circuit. All internal lines in the ice cream machines have been connected before leaving the factory. Simply connect the wires to the power cord from the lower rear of the machine and connect the ground wire.

Note: All external wiring, plugs, and sockets should meet the requirements of national standards.

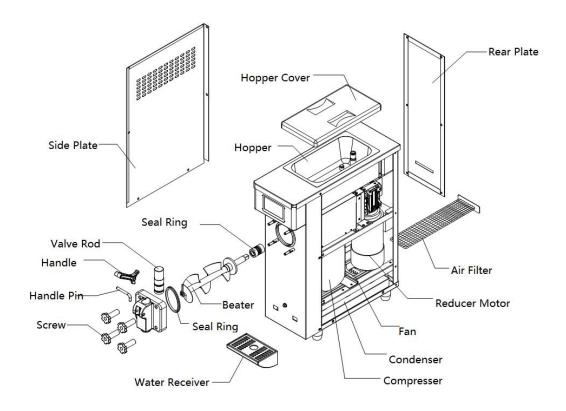
2) The rated voltage deviation of the incoming power supply should not be too high or too low. If it is too high or too low, the indicator light (red) will flash and alarm (beep), and the machine cooling function will not start.

+6%

Note: Voltage: 220V -10% (198V-245V)

- 3) Look at the nameplate attached to the rear panel of the machine, to check if the voltage specified on the machine matches the local power supply voltage.
- 4) Be sure to entrust the electrical construction agency to connect the ground wire. Otherwise, an electric shock may occur in the event of a malfunction or leakage. (The grounding yellow-green line is at the bottom of some models.)
- 5) Do not damage the power cord or cause it to be damaged or processed. Gather the wires into bundles, stretched, barely bent, twisted.
- 6) When the machine is malfunctioning, turn off the power. If a trip occurs, contact the store or service personnel.
- IV, Refrigeration Condition
- a. Refrigeration is not allowed when the empty cylinder has a stirring shaft.
- b, No cooling when there is water in the tank.

Product Structure:



Operation Panel and Function Introduction

The operation panel is divided into an LCD screen and a touch screen (select the corresponding operation by physical comparison)

LCD screen operation and function introduction

1) Cleaning/Defrosting Button:

In the standby state, the button is clicked to enter the cleaning state, the cleaning indicator lights, the buzzer sounds short, the stirring motor runs, and the liquid crystal display shows the current value of the current stirring motor. Press this button again to enter the standby state.

Press and hold the button for 5 seconds, the defrosting function is turned on, the cleaning icon flashes, and then the button is pressed, and the defrosting function is turned off. (Only for models with this feature.)

2) Cooling Button:

In the standby state, the button is clicked to enter the cooling state, the cooling indicator light is on, the buzzer sounds short, the stirring motor, the compressor, and the fan motor start, and the liquid crystal display displays the current value of the current stirring motor. Press this button again to enter the standby state.

3) Puffing Button:

In the standby state, press the "Puffing" button, the air pump indicator light is on, and the air pump is not working; in the cleaning or cooling state, press the puffing button, the air pump indicator light flashes, and the air pump starts. (Only for models with this feature.)

4) Hardness Adjustment Setting Button:

Press and hold " \triangle " " ∇ " or \blacksquare for 1 second to enter the hardness parameter setting state, then click this button to change the hardness value. The higher the hardness value, the harder the ice cream; the lower the hardness value, the softer the ice cream.

5) Fresh/Pre-cool Button:

In the standby state, press the "preservation" button, the freshness indicator light is on, the buzzer will beep once, the stirring motor, compressor, and fan motor will start at a delay, and the liquid crystal display will display the current value of the current stirring motor. Press this button again to enter the standby state. In the cooling state, press this button to automatically enter the trough pre-cooling function after cooling is completed (only for models with this function)

6) Timing / Clear Button

In the standby state, jog the button to enter the restart time setting state, and then click the button to change the restart time setting value. Press and hold the button for 10 seconds to clear the number of cups.

7) The number of ice cream cups shows that each time ice cream is squeezed, the number is automatically recorded.

CL1	Lack of material in the
	left hopper

8) Material Shortage Display (only for models with this function):

When the material is missing, the missing code is displayed in the cup number display area and the buzzer is intermittently alarmed.

	Lack of material in the
CL2	right hopper
CI 2	Lack of material in both
CL3	hoppers

9) Alarm Display

UH	Over Voltage Alarm
UL	Low Voltage Alarm
JJ	Motor Overload Alarm

10)Temperature Display

Due to the content limitation on the screen, the chute temperature and the freezing cylinder temperature display can only be displayed in the same area. The display rules are as follows:

220	Tank Temperature Display		
	Prompt		
XX °C	Tank Temperature Display		
AAC	Value		
5311	Freezer Temperature Display		
10101 <u>0</u>	Prompt		
XX °C	Freezer Temperature Display		
AATC	Value		



Sanitary and Parts Cleaning of Ice Cream Machine

- 1) Use hygienic raw materials, otherwise, it may endanger health.
- 2) Do not return the ice cream that has been taken out to the tank, it may be harmful to your health.
- 3) For the operator of the ice cream machine, you must wash your hands first and wear them neatly, otherwise, it may endanger your health.
- 4) The seal O-ring for 3 months.
- 5) 6-month replacement period for the auger.
- 6) When using it for the first time or not using it for a long time, please clean the parts before using it.

Please use the food detergent and cleaning brush to clean the parts that have been dismantled (refer to the product structure drawing), especially thoroughly clean the groove of the O-ring.

Note: Please do not damage or lose parts during operation; do not use hot water or dish-washing detergent to clean the resin parts, otherwise it may cause deformation; please do not soak the parts in the detergent for more than 30 minutes, otherwise it may cause deterioration. For those parts that are prone to dirt, please wash them carefully. The blade is very sharp, please be careful not to scratch your hand.

Assembly Method of Parts

1) Assembly of the square shaft and bellows of the agitator, refer to Figure C to fit the bellows into the square shaft.



Rotate the square shaft after inserting the freezing cylinder to make it align with the inner square hole.

Figure C

2) Install the stirrer on the machine, refer to Figure D.

After inserting the freezing cylinder, rotate the stirrer to make it align the square shaft and press the stirrer resilience, it has been determined whether it is installed in place.

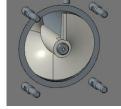


Figure D

3) Assembly of the discharge valve, refer to Figure E Note: Don't forget to install the seal ring.



Figure E

4) Install the water tank as shown (Figure F).

Note: Make sure the control power switch is off when you are assembling the machine.



Figure F

Ice Cream Manufacturing Method

1) Place the prepared ice cream slurry for 15 minutes and pour it into the two tanks at the top of the ice cream machine;

Note: Requires slurry not to agglomerate.

2) Turn on the power, the ice cream machine enters the standby state, and press the "clean button" to let the machine run for 3-5 minutes. At this time, press the handle to let the slurry release 2-3 cups and then pour into the upper tank to prevent the water from freezing at the discharge opening;

Note: Please prepare the slurry according to the proportion of the ice cream powder.

3) Press the "Set" button, (the button version " \triangle " " ∇ " or the button) for 1 second, you can adjust the stall position (softness) of the ice cream as needed.

Note: Please refer to the machine "warm tips" to set the adjustment hardness value.

- 4) Press the "cooling" button, and the machine enters the cooling state. Before pressing the cooling button, you can press the "Puffing" button to increase the puffing effect; press the "Pre-cool" button to cool the slurry in the feed chute.
- 5) When the hardness of the current ice cream reaches the set hardness, the machine will automatically stop and rest; when the machine stops taking a rest, the automatic work time adjustment range is within 3-9 minutes. At this time, press the time adjustment button to set the machine to enter the next refrigeration. The time required for the cycle is increased by one minute per press time, and after 9-minute, it is returned to the 3-minute state.

Note: When the weather is hot, it is best to set a shorter time; when the weather is cold, it is best to set a longer time.

- 6) Take an egg cone or cup and place it at the exit of the outlet valve. Press the discharge handle to squeeze out the ice cream and push the handle back off.
- 7) If there is residual slurry or ice cream left in the machine for a long time, press the "pre-cooling" button to keep the slurry at a low temperature. In order to ensure food hygiene and safety, and to reduce energy consumption, it is recommended to clean the machine every day, leaving no residual ice cream in the machine.

8) After the cooling is completed, the hardness of the ice cream is too hard to make the display alarm or the freezing cylinder does not stir, no discharge phenomenon. If so, first cut off the power switch, press the switch again after 30 seconds, and press the "Thaw" button to freeze Thaw in the tank. After the thawing is completed, press the "Cleaning" button, whether the material is discharged, the material can be discharged normally. Press the "Start" button again. (Only for models with this function.)

Ice Cream Machine Cleaning and Maintenance Methods

I. Cleaning of the Freezing Cylinder and Tank

To ensure the health of ice cream consumers and improve the service life of machine parts, the freezing cylinder must be cleaned and disinfected as long as the ice cream machine is stopped after every use.

- 1) Press the cleaning button to discharge all the slurry in the tank, press again, and the machine stops.
- 2) Please use hot water and an appropriate amount of disinfectant, pour it into the tank, and pour it into a volume of about 70% of the tank.
- 3) Press the cleaning button again and stir for about 5 minutes before draining the cleaning solution.
- 4) Please wash with hot water 2-3 times and stop.
- 5) Use a cleaning brush to clean the chute discharge port. Carefully clean the liquid level sensor with a clean cloth and a cleaning brush. If the cleaning is not complete, sometimes the material shortage alarm will not work. Please remove the mixing blade and clean the rotating shaft and the head with a clean cloth. Use a cleaning brush to thoroughly clean the groove inside the rotating shaft. Wipe the tank with a clean cloth.

II. Washing and Unloading Parts

Cut off the power supply, screw out the four nuts of the discharge valve, and remove the discharge valve;

Pulling out the handle fixing pin, handle, valve rod, and sealing ring in the discharge valve in sequence; The agitator is withdrawn from the freezing cylinder; the parts are disassembled to the minimum unit and cleaned.

Reinstall the cleaned parts following the opposite steps to remove.

III. Body Cleaning and Maintenance

The control switch power must be turned off before cleaning the body.

Wipe with a dry, soft cloth. If the soil is dirty, use a warm towel sprayed with food detergent to remove the stain and wipe off the remaining detergent.

The lower part of the machine and the base are also susceptible to contamination. Please clean it.

Regarding the drain pipe, the drain pipe is connected from the inside of the water

tank of the machine. If the drain pipe has liquid such as raw materials, it may be caused by a defective motor shaft in the deep part of the freezing cylinder, so please contact the store or maintenance personnel.

Note: Please do not use polishing powder, gasoline, hot water, etc., otherwise it will damage the outer surface of the machine.

Please do not use water directly to avoid leakage or accidents.

If the power cord is damaged, do not use it. Please check it once or twice a month. Check if there is any damage.

IV. Cleaning and Maintenance of the Condenser

During the working period, the condenser will be covered with dust, which will affect the heat dissipation. The cooling effect is poor. It must be cleaned every two months. It is best to clean it with professional personnel. Always cut off the power before cleaning, and do not damage the condenser fins.

Annex

1. Consumable Parts:

Seal O Ring 1 set; Scraper 2 Pieces; Cleaning Brushes 1 Set

- 2. Hex Wrench 1 Piece;
- 3. Manual;
- 4. Warranty Card;

Fault Analysis and Solutions

No.	Fault	Cause	Method
	Phenomenon		
		1.The power cord is not connected.	1.Check the power cord and connect it.
		2.Zero line is not connected.	2.Check the neutral line and connect it.
1	The machine does not start.	3.The control power switch is not turned on.	3.Turn on the control power switch.
		4.The control power switch connection problem.	4.Reconnect the control power switch.
		5.There is a problem with the PCB.	5.Replace the PCB board.
		1.Loose connection.	1.Reconnect.
2	Cleaning function does not work.	2.Motor or capacitor is bad.	2.Repair or replace the motor or
	does not work.	2 The contestor is had	capacitor.
		3.The contactor is bad.	3.Replace the contactor.
	The compressor	1.Low voltage.	1.Check the supply voltage.

	does not run.	2.The function switch wiring	
3		is loose.	2.The function switch cable
		15 15 05 01	2.The function switch cable
			should be reconnected.
		3.The contactor is bad.	3.Replace the contactor.
		4. There is a problem with the	4.Replace the PCB board.
		PCB.	
		5.Capacitor Failure (220V	5.Replace the capacitor.
		series)	
		6.The compressor is bad.	6.Replace the compressor.
		1.Refrigerant Leak	1.Repair the leak position and
			vacuum the refrigerant.
4	Not Cooling	2.Condenser is blocked.	2.Clean the condenser.
		3. The fan does not work.	3.Repair or replace the fan.
		1.No material in the cylinder.	1.Add slurry to the cylinder.
		2.Unloading puffing tube is	2.Pull out the puffing tube and
		blocked.	clean it up.
	Can't make ice	3. The slurry ratio is wrong, too	3.Reconstitute the qualified
5	cream	thick.	slurry.
	or cum	4. The panel travel switch is	4.Reconnect the line or replace
		damaged or disconnected	the travel switch.
		5. There is a problem with the	5.Repair or replace the gear unit.
		reducer.	
	_	1.Expanded tube is not	1.Reinsert the expansion tube.
6	Poor Expansion	inserted.	
		2.No open puffing switch.	2. Turn on the puffing switch.
		1.Slurry ratio is wrong.	1.Reconstitute qualified slurry.
7	Ice cream is too soft	2.Improper hardness setting.	2.Reset hardness.
		3.Motor current is large, there	3.Repair or replace the motor.
		is a short circuit.	1.5
0	Ice cream is too	1.Too much water in the	1.Reconstitute qualified slurry.
8	hard	ingredients 2 Improper hardness setting	2.Reset hardness.
		2.Improper hardness setting.	
10	Material Leakage	1.Discharge Valve Leakage	1.Replace the discharge valve seal.
		2.Leakage at the rod.	2.Replace the stem seal.
		3.Leakage at the leak.	3. Replace the outlet valve seal.
			4.Replace the seal.
	The commerces	4.Stirring shaft seal rupture. 1.Travel switch contacts are	
11	The compressor	attached.	1.Repair or replace the travel switch.
	stops after the ice cream is formed,	anacheu.	SWILCH.
	and the motor does		
	and the motor does		

	not stop.		
12	When the ice cream is made, the motor does not work, and the ice cream does not come out.	1.Travel switch is damaged.	1.Repair or replace the travel switch.
13	Beater Split	Under normal circumstances, it will not happen. The abnormal situation is as follows.	Replace the beater.
14	LCD does not display.	1.Slurry water, freezing tank. 2.Mis-press the cooling button during cleaning; with water cooling. 3.Refrigeration when one cylinder has material and the other cylinder has no material. 4.Empty cylinder refrigeration. 5.Excessive use of a cylinder when playing ice cream. 6.Hot slurry is poured into the cylinder for rapid cooling. 7.When the motor direction is reversed, the material is cooled. 8.There is a problem with the PCB.	1. Replace the PCB board.
15	LCD does noe	1.The plug is loose.	2.Check the wiring plug.
	display.	2.LCD monitor is damaged.	2.Replace the LCD.
16	Alarm Display	UHOver Voltage Alarm	
		ULLow Voltage Alarm	
		JJ Motor Overload Alarm	

Technical Parameters:

Specific technical parameters and refrigerant performance are subject to the nameplate.

The pictures in the manual are for illustrative purposes only, please refer to the actual product!