

Thanks for choosing our product. In order to safeguard your rights and interests, please carefully read this instruction before you use the product. And after reading, please keep it carefully for future reference.

YKF-826 YKF-8228H
YKF-8226 YKF-826T

Ice Cream Machine Operating Instructions

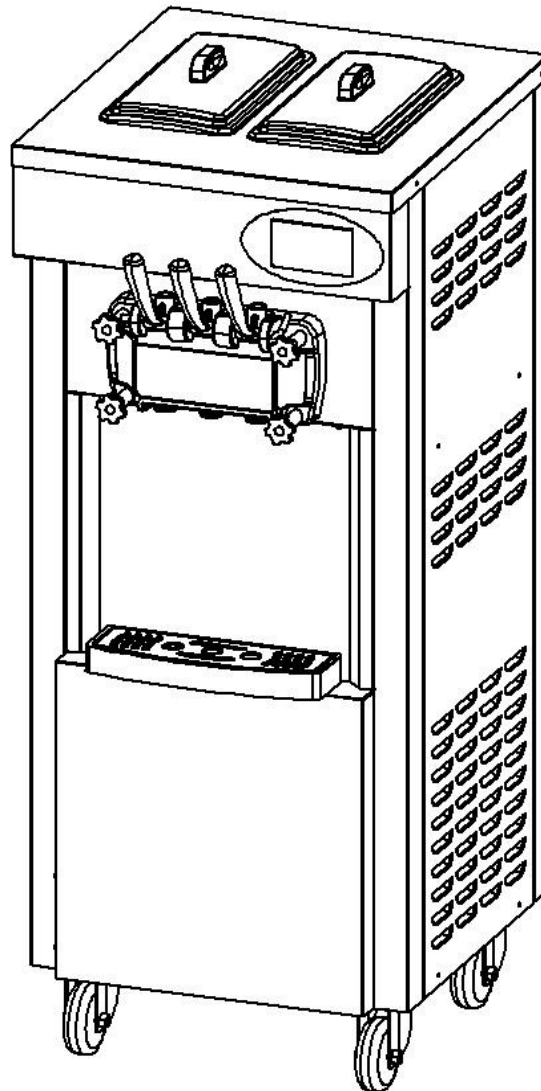


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1. Usage and features

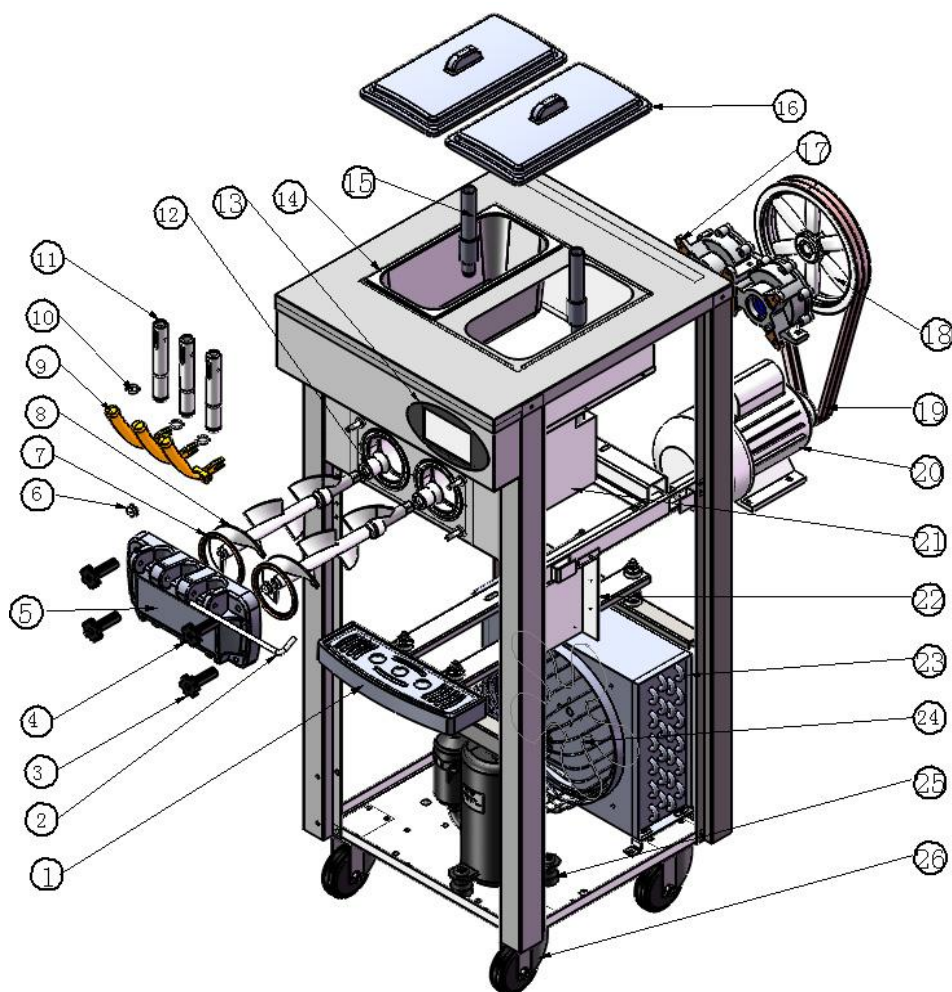
With little investment and high returns, it is a wise choice for you to purchase our product. This series of products can be used in the pubs, hotels, cold drink specialty shops, net bars, dancing halls, coffee houses, western restaurants, holiday villages, and other entertainment and leisure places. All of our commercial ice cream machines adopt the digital computer control system, with LCD or digital display. As our commercial ice cream machines are made of high quality and stable electrical elements, and matched with advanced production technology, it is easy, safe and reliable to operate. In addition, our products are equipped with compressors of world-famous brand, which ensures stable and reliable refrigerating system, large production capacity and low electricity consumption. The ice cream made by our machines tastes crispy and tender, with a high puffing rate.

2. Security precautions

1. When you carry or move the machine, the tilting angle should not be more than 45 °.
2. As vibration cannot be avoided in the course of carrying the machine, it'd better place down the machine for more than 4 hours before you use it.
3. When the stirring shaft is in the empty cylinder, it is not allowed to switch on the automatic key, nor switch on it when there is water in the cylinder.
4. Check the nameplate (technical parameters) on the back panel of the machine whether the voltage required is conformity with that of the local power supply.
5. Please ensure the power supply socket be effectively connected to the grounding line.
6. When stop using the machine, or dismantling its parts or cleaning the machine, please cut off the power supply.
7. To prevent electric shock, please don't make the plug, motor or other electrical parts wet or spill liquids on them.
8. If the power cord is damaged, it must be replaced by the manufacturer, or its service center or other similiar qualified professionals to avoid dangers.

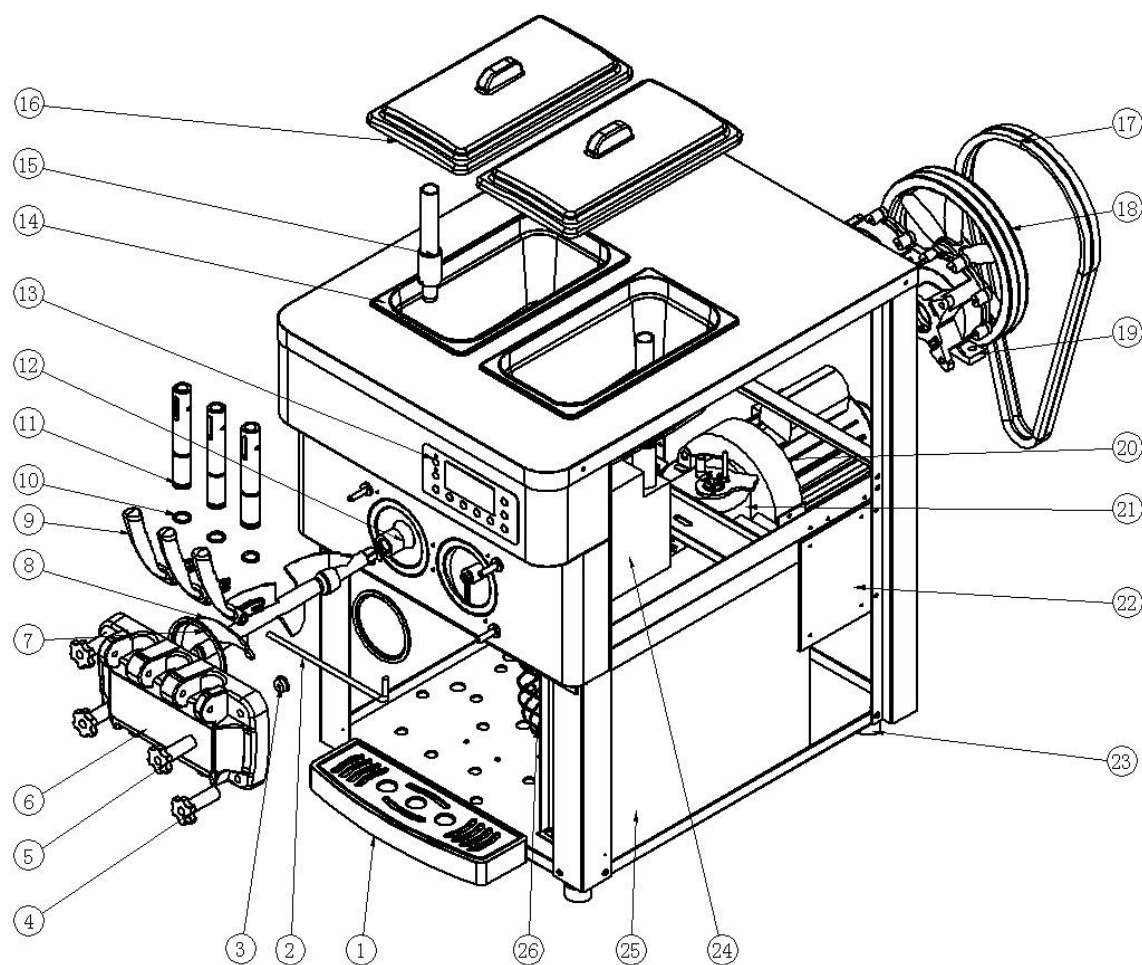
3. Product structure diagram

I. Structure diagram of vertical type



No.	Name	No.	Name	No.	Name
1	Water receiver	10	Piston seal	19	Belt
2	Handle steady pin	11	Piston	20	Stirring motor
3	Lower fixing nut	12	Bellmouth seal	21	Evaporator
4	Upper fixing nut	13	Operating panel	22	Control panel
5	Liquid outlet valve	14	Material cylinder	23	Condenser
6	Supporting sheath of stirring shaft	15	Puffing tube	24	Draught fan
7	Seal for liquid outlet valve	16	Cylinder cover	25	Compressor
8	Stirring shaft	17	Reducer	26	Truckle
9	Handle	18	Belt pulley		

II. Structure diagram of table type



No.	Name	No.	Name	No.	Name
1	Water receiver	10	Piston seal	19	Reducer
2	Handle steady pin	11	Piston	20	Stirring motor
3	Supporting sheath of stirring shaft	12	Bellmouth seal	21	Compressor
4	Lower fixing nut	13	Operating panel	22	Control panel
5	Upper fixing nut	14	Material cylinder	23	Floor mat
6	Liquid outlet valve	15	Puffing tube	24	Evaporator
7	Seal for liquid outlet valve	16	Cylinder cover	25	Condenser
8	Stirring shaft	17	Belt	26	Draught fan
9	Handle	18	Belt pulley		

4. Installation and debugging

1) Installation

a. Cut off and dismantle the packing belt of the fastened carton. Get rid of the carton and take down the packaging bag to check whether the appearance of the machine is damaged and whether the accessories are complete with reference to the list.

b. The machine should be placed evenly and stably, and after then please lock the brake of the front wheel tight.

c. Install the handle to the liquid outlet valve against the product structure diagram, Then install the assembled liquid outlet valve on the machine, and tighten it with the fixing nuts.

d. Working conditions:

① Ambient temperature: 5-40°C; material feeding temperature: 2-35°C (Note: The material feeding temperature will directly influence the refrigerating capacity and outputs.)

② Supply voltage: 200-400v (The deviation of rated supply voltage cannot be too high or too low. If it is too high or too low, the machine will alarm (buzzing) and the machine cannot start.)

③ Supply frequency: 50±1 Hz

e. Placing conditions:

① The machine should be placed at a cool and ventilated location and avoid heat source and direct sunshine. The distance between the air exhausting side of the machine and wall or other similar obstacles should be over 1m, and the rest sides of the machine should be over 0.3m away from the wall or other similar obstacles, so that the cool air can flow in the machine and exhaust the hot gas to ensure condensation cycle of the machine.

② The machine should not be located at a dusty place. Please keep the place clean and tidy, and regularly clear away the dust on the condenser.

f. Requirements for power supply wiring:

① Please ensure the the power supply circuit of the mahcine is equipped with the short-circuit protection and earth leakage protection devices.

② Please ensure the power line should not be less than 2.5mm² and be the copper core wire (excluding the exceptional high-power machine, whose power line should not be less than 4.0mm² and be the copper core wire.), and the power line shouldn't be too long. When the power line is too small or too long, its load will become too large and causes voltage drop, thus affecting the service life of the machine's components.

2) Debugging

a. Switch on the power plug and push the power switch to the “ON” position. Then you will hear a “Beep” sound and the display screen at the same time is on. The machine now is entering the standby state.

b. As you press the “Wash” key, the machine enters the washing state, and the stirring system begins to run at the same time. Press the “Stop” key and the machine will stop its running.

c. As you press the “Auto” key, the machine enters the moulding stage, and the stirring system begins to run at the same time. After 10 seconds delay, the refrigerating system also begins to start. Press the “Stop” key and the machine will stop its operation.

3) Cleaning and disinfection

When the machine is used for its first time, the cleaning and disinfection work should be carefully made. The steps are as follows:

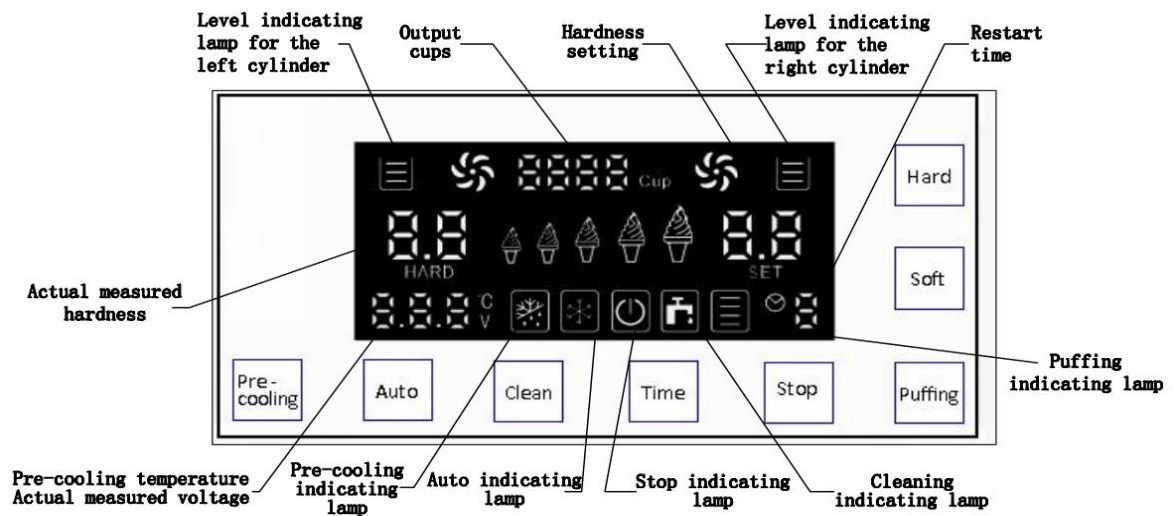
- a. Take about 10L of warm water (40-50°C) and add appropriate amount of foodstuff cleaning solution to the water, making them to the disinfectant. Then pour the disinfectant into the two material cylinders, and let the disinfectant flow into the refrigerating cylinder.
- b. Press the “Wash” key to run for 5 minutes. Pull down the handle to discharge the cleaning solution.
- c. Add clear water to the material cylinders and rinse 2-3 times. It is OK.

⚠Notes: a. In the course of cleaning and disinfection, you cannot press the “Auto” key, and you must observe the the display screen.

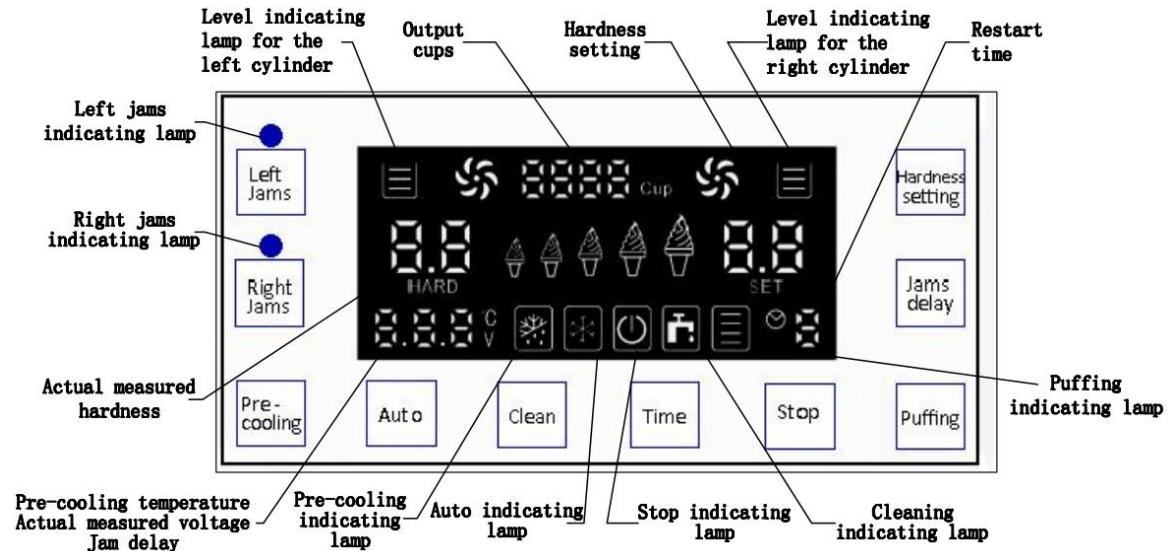
b. After cleaning, you must discharge the water in the cylinders completely. Otherwise, the water will frozen to freeze the cylinder during refrigerating and the stirring shaft will be damaged.

5. Operating instructions

1) Common operation panel



2) Operation panel of jams



a. The “Auto” key

As you press the “Auto” key, the buzzer will twitter a short sound and the Auto indicating lamp be on at the same time. The machine enters the automatic working state, and the stirring motor begins to run. The actual measured hardness shows the present current value of the stirring motor. After 10 seconds, the compressor, draught fan and solenoid valve begins to work and the machine enters the full automatic mode. When the actual measured hardness reaches the set hardness, the machine will automatically stop and enter the auto standby mode. When the stopping time reaches the set time, the machine begins to work again and repeats the same cycle. If you want to stop the machine, just press the “Stop” key.

b. The “Clean” key

As you press the “Clean” key, the buzzer will twitter a short sound and the cleaning indicating lamp be on at the same time. The machine enters the cleaning state, and the stirring motor begins to run. The actual measured hardness shows the present current value of the stirring motor. When you press the “Stop” key, the machine will stop its operation and enter the standby state.

c. The “Time” key

The restart time can be set by pressing the “Time” key. As you press it every time, the time will increase 1 minute. The larger the value is, the longer time of the restart time. The cycle is 3-9 minutes. After the setting is finished, the time will be automatically saved after 5 seconds.

d. The “Stop” key

Whether the machine is at the cleaning state or automatic working state, as long as you press the “Stop” key, the machine will stop its operation and return to the standby state.

e. The “Pre-cooling” key

As you press the “Pre-cooling” key, the pre-cooling indicating lamp will be on, which means the pre-cooling function is enabled. When the temperature of the feed trough is above 15°C, the pre-cooling system begins to work; when the temperature of the trough is less than 8°C, the pre-cooling system will close. And you can see the actual measured temperature is displayed here.

f. The “Puffing” key

As you press the “Puffing” key, the puffing indicating lamp will be on, which means that the puffing function is enabled. At the time if you start the cleaning function, the puffing pump output will always switch on. If the automatic function is enabled, the puffing pump will switch on for 1 minute and then close. And if there is the knockout action, after the knockout is finished the puffing pump will switch on after 8 seconds dealy, and close after working 1 minute. As you press the “Puffing” key again, the puffing function will be closed.

g. Level indicating lamp for the cylinders

When there are materials in the material cylinder, the level indicating lamp for the cylinder will be continuously on. When the the cylinder is short of materials, the correcompnding level indicating lamp will flash and the buzzer tweets at the same time. After the material is fed, the above phenomena can be relieved.

h. Output cups

① Zero cleaning of output cups

As you press the “Stop” key and hold it for 5s, you enter the menu of inputing zero cleaning password (The initial zero cleaning password is 8888,). At the time as you press the Plus key, you can move the password, and as you press the Minus key, you can change the password value. After the password is correctively input, as you press the “Stop” key again, the zero cleaning of output cups is made and exits.

② Revision of the zero cleaning password

Press the “Time” key and hold it for 5s. Then you enter the menu of inputting the password. Input the initial zero cleaning password, and at the time as you press the Plus key, you can move the password and as you press the Minus key, you can change the password value. After you finish revising the password, as you press the “Time” key again, the zero cleaning password is saved and exits.

i. Hardness setting

① Common operation panel

As you press the “Hardness+” or “Hardness-” key and hold it for 2s, the hardness setting LED flashes. At the time you can adjust the hardness of the ice cream. The bigger the number is, the harder of the ice cream, and vice versus. After the setting is finished, the hardness value can be automatically saved in 5s.

② Operation panel of jams

i) As you hold on pressing the “Hardness setting” key for 2s, the hardness setting LED flashes. At the time you can adjust the hardness of the ice cream. The cycle time can be set as 4.0-7.0. The bigger the number is, the harder of the ice cream, and vice virsus. After the setting is finished, the hardness value can be automatically saved in 5s.

ii) As you hold on pressing the “Jams delay” key for 2s, the jams delay LED flashes. At the time as you press the “Jams delay” key, you can change the value. The cycle time can be set as 0.0-0.9. The bigger the number is, the more amout of the jams when the ice cream tapers, and vice virsus (Generally it is suggested that the value to be set at 0.3.). After the setting is finished, it will be automatically saved in 5s.

j. The “Jams” key

① When the machine is at the cleaning sate, as you press the “Jams” key, the Jams indicating lamp will be on and the jams pump begins to work at the same time. When you press the “Jams” key again, the jams indicating lamp will be off and the jams pump stops work.

② When the machine is at the automatic work state, as you press the “Jams” key, the jams indicating lamp will be on. As you pull down the handle, the corresponding jams pump begins to work. As you restore the handle’s position, the jams pump will stop work. And you can only start one jams pump, in other words, when you start the left jams pump, the right one will be automatically switch off, and vice versus. When you don’t need the jams, please keep in mind to switch off the “Jams” key before you make ice cream.



Notes: a. The pre-cooling, puffing, material shortage alarm, and jams functions are optional, which can be separately added as the customer’s requirements.

b. For the machine with the jams functions, please keep in mind to switch off the “Jams” key when you don’t want the jams. When you start the “Jams” key, you can only pull down the corresponding handle to do so. Otherwise, the jams will come out from the discharge hole on the other side.

6. Ice cream making method

1) At present in China the ice cream is usually made by mixing the ice cream materials with water. Please mix them in strict accordance with the ratio as printed on the ice cream bag (Generally 1 kilogram of ice cream material should be mixed with 2.5-3 kilograms of purified water.).

2) Place down the mixed ice cream pulp for 15 minutes and then evenly pour it two the two material cylinders on the top of the machine. It is required that the pulp cannot caking in order that the pulp can smoothly flow into the refrigerating cylinder through the feeding hole of the puffing tube.

3) Pull down the left and right handles in order to let the two discharge holes flow out 2-3 cups of ice cream pulp in a natural manner. Then pour it into the top material cylinders to prevent water freezing at the discharge mouth, for it will influence the making of ice cream.

4) Switch on the power supply. As the machine enters the standby state, press the “Cleaning” key and let the machine run about 3-5 minutes. After that press the “Stop” key to stop the machine.

5) Press the “Auto” key. As the machine enters the refrigeration and moulding state, press the “Soft or Hard” key to choose the hardness of the ice cream as you want (Notes: At the prior cleaning state, you must closely observe the current hardness value displayed. If the current value is displayed as 3.5, then the hardness of the ice cream should be set between 4.5-5.5. If it is displayed as 4.0, then the hardness should be set between 5.0-5.5.).

6) When the actual measured hardness of the ice cream reaches the set value, the machine will automatically stop operation and enter the standby state. At the time you can press the “Time” key to set the time as required for the cycle of automatic refrigerating. The automatic refrigerating cycle is set as 3-9 minutes. As you press the key everytime, 1 minute is increased. Until it reaches 9 minutes, as you press the key again, the machine will return to the 3 minutes state. (Note: when it is hot, you’d better set the stop time shorter and vice versus.)

7) Take one ice cream cone or cup and place it at the valve outlet. As you pull down the material discharge handle, the ice cream will be extruded. After a while pull back the handle, and it is OK.



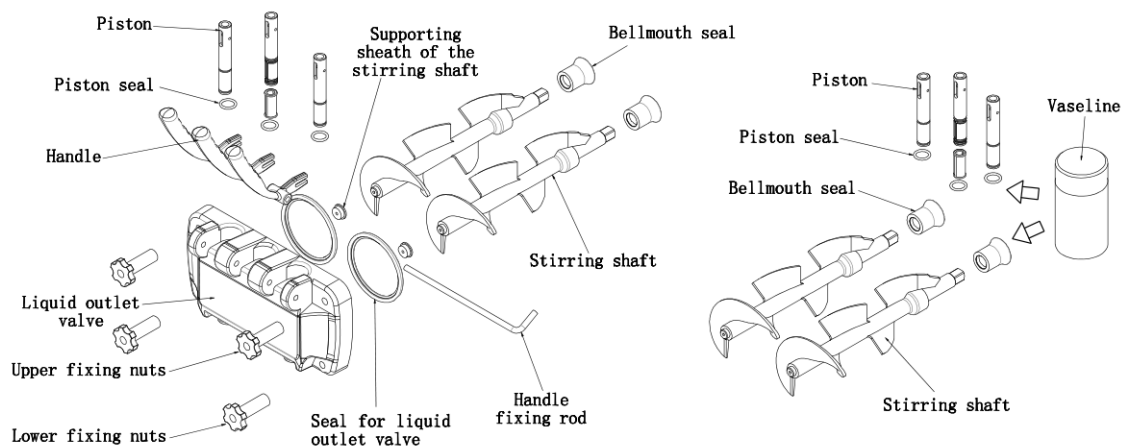
Notes: Appropriate amount of ice cream pulp must be ensured in the material cylinders of the machine, for shortage of materials will cause damage to the stirring shaft. Often check whether the feeding hole of the puffing tube is smooth, in order to avoid blockage resulting from uneven pulp and avoid shortage of materials in the freezing cylinder.

7. Maintenance and repair

To guarantee the health of ice cream consumers, improve the service life of the machine components, and avoid unnecessary troubles, you must clean the refrigerating cylinder one time every day.

1) The cleaning of the refrigerating cylinder

- a. Press the “Cleaning” key to discharge all the pulp inside the cylinder. Press the “Stop” key to stop the machine.
- b. Add appropriate amount of disinfectant to the warm water. Then pour the mixture into the two material cylinders respectively, each being with basically the same amount of solution.
- c. Press the “Cleaning” key again and let the machine stir for about 5 minutes. Then discharge the cleaning solution.
- d. Clean the machine 2-3 times with clear water and then stop the machine.
- e. Switch off the power supply. Dismantle the components and clean them.
- f. Screw off the four nuts used to fix the liquid outlet valves and dismantle the valve components.
- g. Pull out the handle steady pins, handle, piston and valve seal in turn from the liquid outlet valve components.
- h. Pull out the stirring shaft from the refrigerating cylinder.
- i. Clean all the dismantled components and timely replace the damaged ones if there is any.
- j. After cleaning, daub vaseline on the components that need lubrication in accordance with the following diagram. Then assemble the components according to the adverse order of dismantlement.



Note: Daub vaseline at the corresponding places when installing the pistons, piston seals, stirring shaft and bellmouth seals, for often using vaseline can prolong the service life of the components.

2) Body cleaning

Since the consumers require beautiful appearance, clean and sanitary machine, please keep the appearance clean at any time. You can use the warm towel to scrub the body to remove the dirt and spots, but avoid washing it directly with water in case the appliance breaks down.

3) Condenser cleaning

After the machine works a period of time, the condenser will be covered with dusts, thus affecting the heat dissipation and making the refrigerating effect worse (which embodies: the output of ice cream drops in the same time or it is hard to take shape.). Please have it cleaned one time every three months (If the working environment is poor, please clean it once every month.) by professional workers. Before clean the condenser, please switch off the power supply and note not damaging the condenser fins.

4) Adjustment of the belt

After the machine works a period of time, the driving belt of the stirring system may be pulled longer, so timely adjustment to the belt should be made by professionals. Before adjustment, you must cut off the power supply. Then dismantle the enclosure plates to adjust the belt tension nuts and ensure appropriate tightness. If you still feel the belt is still too loose after adjustment, please replace it with the same type belt.

Notes: After a long time of use, it is normal that the driving belt wears down, which shall not be included in the after-sales service of our products. When the driving belt becomes longer, the following phenomena may occur: unwork of the machine, changed hardness, big noise, glue smell, etc. Please have it adjusted timely by yourself or by professionals. If necessary, please replace it. The time interval for adjustment and replacement depends on the machine's utilization rate.

8. Common troubles and their solutions

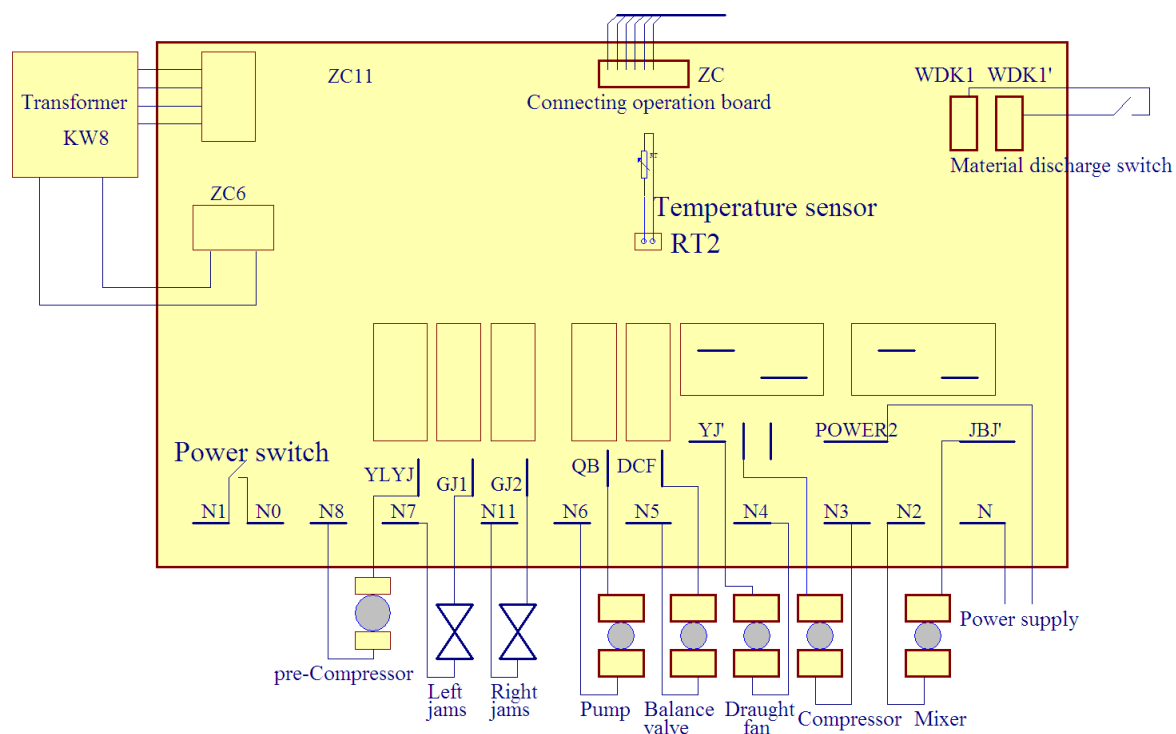
Thank you very much for choosing our equipment. The ice cream machine belongs to a professional mechatronics equipment, integrating computer program control, mechanical transmission, and highly efficient refrigerating system. The following table shows the common troubles that may occur to the machine and their causes and solutions. The simple troubles can be treated in accordance with the solutions listed in the table. If they still cannot be removed, please consult the dealer or the manufacturer for direction. Should the troubles be difficult and complex, please invite the professionals to repair.

No.	Troubles	Possible causes	Solutions
1	The machine cannot start.	Whether the power switch is on or off.	Switch on the power switch by yourself.
		The power line is not well connected.	Check the power line and connect it well.
		The protection circuit works.	Restart the machine after clear the trouble.
		The control board is problematic.	Replace the control board.
2	The cleaning function doesn't work.	The connection line is loose.	Check the connection line and connect it firmly
		The stirring motor or capacitance is damaged.	Repair or replace the capacitance or motor.
		The ac contactor is damaged.	Replace the ac contactor.
3	The compressor doesn't run.	The connection line is loose.	Check the connection line and connect it firmly.
		The voltage is too low.	Check the power voltage.
		The contactor is damaged.	Replace the contactor.
		The control board is problematic.	Replace the control board.
		The compressor capacitance is damaged.	Replace the capacitance.
		The over-load protection for the compressor works.	Find out the causes and remove them.
		The compressor is damaged.	Replace the compressor.

No.	Troubles	Possible causes	Solutions
4	Refrigerating don't work.	The refrigerating fluid leaks.	Find out the leakage location and repair it well. Fill the refrigerant under vacuum.
		The solenoid valve is damaged.	Replace the solenoid valve.
		The draught fan doesn't run.	Repair or replace the draught fan.
		The compressor runs abnormally.	Check the compressor.
5	The belt skids.	The belt is too loose.	Adjust the tightness of the belt or replace the belt.
		Freezing cylinder, broken stirring draft	Adjust the hardness and replace the stirring shaft.
6	The ice cream cannot come out.	No material in the cylinder	Replenish the pulp.
		The puffing tube is blocked.	Pull out the buffing pipe and clean it.
		Wrong ratio of the pulp, which causes freezing cylinder.	Make the qualified pulp again.
		The material discharge switch on the panel is damaged or the connection line is short-circuit.	Connect the line again or replace the discharge switch.
		The belt is too loose and skids.	Adjust the belt or replace it.
		The reducer is problematic.	Repair or replace the reducer.
		The stirring shaft is worn out.	Replace the stirring shaft.
7	Poor puffing	The puffing tube is not inserted.	Insert the puffing tube again.
		The raw material of the ice cream is poor in quality.	Improve the raw material quality.
8	After starting, electric leakage occurs.	Induced electricity of the shell	Check whether the power line is firmly connected to the earth. If it is not, please have it connected by the professionals.

No.	Troubles	Possible causes	Solutions
9	The ice cream is too soft.	Wrong mixing ratio of the pulp	Make qualified pulp again.
		Improper setting of the hardness	Reset the hardness.
		Unsteady voltage	Adjust the voltage.
		Loose belt	Adjust the belt or replace it.
		The material discharge is too frequent.	After the actual hardness is over 1, make the ice cream then.
10	Non-stop of the machine	The hardness is set too big.	Adjust down the set hardness.
		Poor refrigeration	Check the refrigerating system.
		The discharge switch is damaged or the connection line is short-circuit.	Connect the line again or replace the material discharge switch.
11	Leaky material	Leaky liquid outlet valve	Replace the liquid outlet valve and lock it with the fixing nuts.
		Leaky discharge hole	Replace the piston seal.
		Leaky liquid joining pipe	Replace the bellmouth seal and lock it with the fixing nuts.
		Leaky inside the machine	Replace the cylinder's connection pipe.
12	"JJ" alarms	The current of the stirring motor is too high.	Check the belt's tightness, the stirring motor and capacitance.
13	"UH" alarms	Too high voltage	Check the power voltage.
14	"UL" alarms	Too low voltage	Check the power voltage.
15	"Cb" alarms	The material discharge switch closes in succession over 3 minutes.	Restore the material discharge switch or replace it.

9. Electric principle diagram



10. Attached accessories

- | | |
|-------------------------------|------------------------------|
| 1) Seals: 1 set | 2) Edible vaseline: 1 bottle |
| 3) Liquid outlet valve: 1 set | 4) Handle: 3 pieces |
| 5) Water receiver: 1 set | 6) Cylinder cover: 2 pieces |
| 7) Stirring shaft: 2 pieces | 8) Fixing nuts: 5 pieces |
| 9) Puffing tube: 2 pieces | 10) Instructions: 1 copy |

11. Technical parameters

The specific technical parameters are shown on the nameplate of the machine.

Should any change appear in the intructions, please kindly forgive us without prior notice!