STANDARD OPERATING PROCEDURE

ICE MAKER MACHINE

1. Installation

A. Ice cream machine installation

a. Place it in clean and ventilated site

b. Keep it in room away from rain, direct sunshine and heat sources.

c. The temperature in room must be 5 ^{0}C—35 ^{0}C

d. Keep the back more than 250mm away from wall.

B. Connection of water system

a. water source must accord with standard of drinking water.

b. It is not allowed to connect tap water directly, must stall a water filter.

c. Water supply situation:
Temperature 2^{o}c —32^{o}c
Water pressure 137Kpa•51Kpa

C. Power connection

a. Select the type and capacity of power source according to the marked voltage and effective capacity on the nameplate

b. All the lines must comply with national standards therefor

c. Must connect earth wire.

d. Voltage fluctuations must not exceed ± 10% of rated.

2. Operation

A. operation

a. make sure the water supply system in good state and water tank with reason water before start.

b. Connect the power, it starts to work. The pump goes first ,2 minutes later compressor run, it starts to make ice.

c. When the thickness of ice cubes gets to setting value, ice cubes start to fall off ice format. Solenoid valve run and pump stop. Heat transfer to condenser. Ice cubes fall down in 1.5 minutes, sensor switch open, ice cubes slip into storage. Ice machine work again.

d. Compressor keep running when the ice cubes fall down to storage. Ice machine will stop when the ice cubes fill the storage and block the water-stop sheet. When take enough ice cubes so the water-stop sheet return to its original shape, and ice machine resume to work in 3 minutes.

3. Clean and maintenance

a. Fram

Often wrap the body with soft cleath. Clean the oil and ashes on the surface with neutral cleanser.

b. Ice storage and ice shovel

Clean hands before fetch the ice cubes. Make sure the shovel is clean. Ice storage can't store anything but ice.

c. Condenser

Check up the condenser every 3 month. Clean it with brush and vacuum cleaner. Clean the filter net every month avoid ashes block it.

d. Filter

Replace filter element each month.

4. Troubles and treatments

Troubles	Causes	Treatments
No running	1.no power or power wire not fixed	l. check the power and power wire
	2. ice producing thermostatic burnt out	2. replace the thermostatic
Compressor doesn't work	1. voltage is low or heat protect or burnt out	1. check the power voltage and heat protector
	2. the wire of compressor starter loose	2. check and fix the wire
	3.compressor breaks down	3. replace compressor
	4.capacit or of compressor burnt out	4. replace the capacitor
	5.refrigerating thermostatic is in bad connection	5. replace the thermostatic
No water in trough	1. the tap is turned off	l. turn on the tap
	2. the water tank leaks	2. sealing the leakage
	3. the inlet solenoid is blocked or broken down	3. replace the solenoid or clean the pipeline
The trough flows over	l. water pressure is over	l. turn down the tap
	2. the over flow pipe is blocked	2. check and repair the pipe
	3. the inlet solenoid breaks down	3. replace the solenoid
The refrigerator is over heat and the refrigerating is not good	l. the fan breaks down	l. replaces the fan
	2. the piping is blocked	2. check the piping and vacuate it and fill with Freon

Water pump doesn't run	1. the blades of fan is blocked or moter breaks down	l . check the fan or replace the pump
	2. the pipeline contains air	2. let water enter into the trough and restart the machine to put out of the air
	3.no power to water pump	3. check the wire to see if the time for frost melting is too long
The ice is too thin	1.the refrigerating control ler is not set well	I. set the controller counter clock-wise
	2. the refriger ant leaks	2. check the leakage and refill Freon
	3. the refrigerator fan doesn't run	3. check the fan
	4. the piping is blocked	4. check out the blockage and re-vacuate it and fill with Freon
	5. lack of water	5. refer to the solutions of lack of water
	6. the refrigerator is dirty	6. clean the radiators of refrigerator
Ice is unclear	1. the water is not clean	1. connect water filter
	2.impurit accumulates	2.drain the water with impurity
Big noise	1.the machine is put unstable	l. put it stably
	2. the fixing bolts are loose	2. check the bolts and fasten again
The ice not fall down	l. the ice doesn't form cube	l. check the refrigerator
	2. the machine	2. adjust the machine