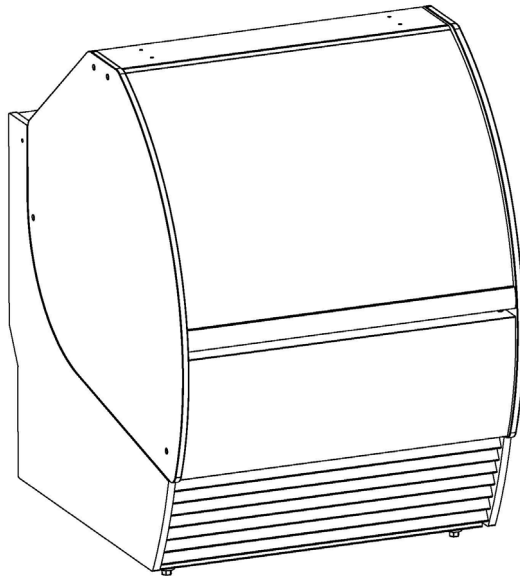


## Instructions for Ice Cream Display Freezer



It is must exceed 24 hours before the machine can be used after it has been long time transport and jounce.

## Foreword

### Dear users:

Welcome and thank you for using our ice cream display freezer! This product is an internationally advanced product developed by our Company according to the needs of the market and with reference to foreign advanced refrigeration technology.

The exterior of this product series is designed with European popular styles of luxurious and stylish appearance, which can maximize the display of your ice cream to be sold: the internal design is reasonable, the raw material of the internal plate adopts food-specific stainless steel, The advanced evaporator design ensures the reliable refrigeration effect, and the advanced hot gas defrosting system saves energy and electricity.

Our products can be widely used in places of ice cream stores, western-style restaurants, coffee shops, high-end buffets, movie theaters, beaches.

In order to better use our products and extend the service life of the products, please read this "INSTRUCTIONS" carefully before use.

**We reserve the right to make changes in specifications and design without prior notice.**

## Product Specifications and Parameters

### 1. Model

Model	Dimensions (L*W*H) mm	Cabinet temperature °C	Power V/ph/Hz	Input power W
SGD-12	1233*1095*1300	-16°C~-18°C	220/1/50	TBC
SGD-17	1728*1095*1300			1460

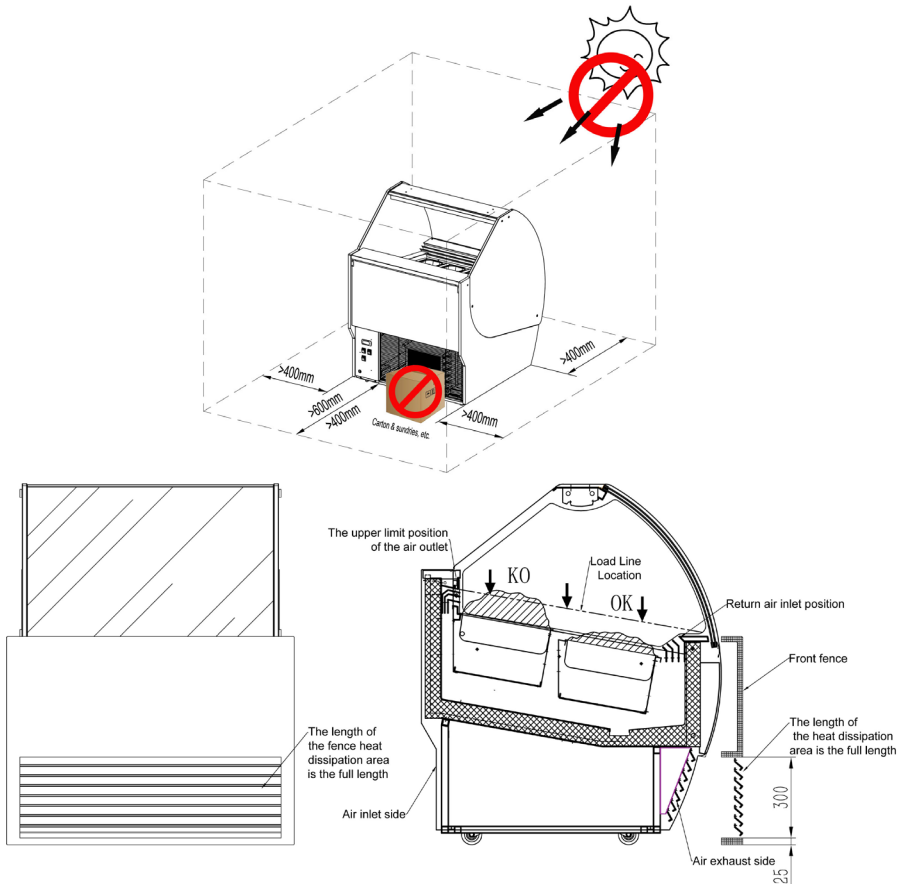
### Handling and placement

1. During the handling process, the inclination angle of the tank should not be greater than 45 degrees to avoid unnecessary damage;
2. This product should be placed in a ventilated and dry place, the ambient temperature of the working condition should be less than 30 °C ( $\leq 30$  °C), and the ambient humidity should be less than 60% ( $\leq 60\%$ ). At the same time, this product should be kept away from the heat source, avoid direct blowing of rear sliding door at air conditioner outlet, and avoid direct

sunlight, and avoid being placed in the environments of seaside and outdoor;

3. Before use, the packaging items should be removed from all parts of the display freezer to prevent the normal operation of the display freezer from being affected, otherwise, unnecessary losses may be incurred;

4. The ventilation places in the front and rear of the equipment must be well ventilated, and no obstacles or heat sources are allowed to enter. A certain distance must be left on each side of the equipment, which must not be less than the size shown in the figure below.



## Power Requirements

1. This rated voltage of the product is 220V, and the voltage fluctuation must comply with the national regulations, that is, the fluctuation range should be within 10%;
2. The socket that supplies power to this product must be a three-hole or four-hole socket with

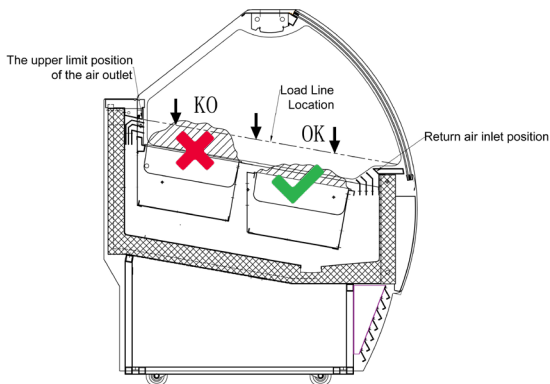
independent lines. The maximum current allowed by the socket must be larger than 16A ( $\geq 16A$ ). The reliable grounding wire shall be equipped, and not be connected with the gas pipeline and the water pipe;

### **Startup and Operation**

1. Before starting the machine, use the 4 adjustable feet at the bottom of the cabinet to level the ice cream display freezer;
  2. Before starting the machine, carefully check the installation of the equipment according to the requirements of the instruction manual, and leave the equipment to stand for **more than 12 hours** in advance;
  3. After turning on the power supply and turning on the main switch and refrigeration switch, through a delay of 3 minutes, the compressor will run automatically;
  4. Check whether the compressor is running normally and the indicator lights work in a normal manner;
  5. After the compressor runs for 15 minutes, the temperature in the display freezer cabinet must drop significantly, indicating that the display freezer is operating normally and can be used with confidence, otherwise, shut down the display freezer immediately for inspection;
- Note: The commissioning of the temperature controllers has already been performed in a strict manner before leaving the factory. Those who have not been trained or have not read the instructions carefully shall not be authorized to adjust them.

### **Placing Ice Cream into Display Freezer**

1. The time of putting ice cream food into the empty machine each time: ice cream can be put into the display freezer only after the display freezer reaches the storage temperature and stops automatically.
2. The display freezer must be kept clean when the ice cream is put in, and no ice cream should fall into the cabinet. If foreign matters are found in the evaporator, they must be cleaned in time to prevent the peculiar smell caused by the untimely cleaning of the scattered food in the cabinet.
3. The ice cream shape should not extend to the position of the air outlet in the cabinet, so as not to cause the ice cream to melt (as shown in the figure below).



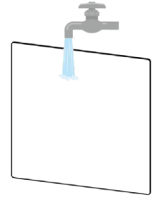
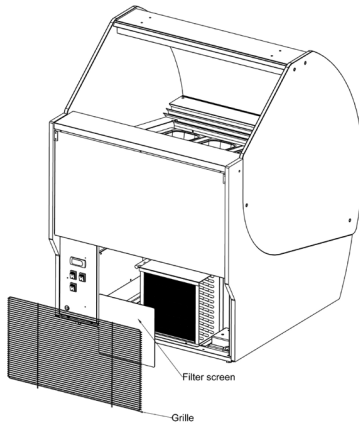
## Daily Use Precautions

After the store is closed at night, take out the ice cream and store it in the chest freezer. Unplug the ice cream display freezer, wipe the its interior and exterior, and open the rear sliding door, which can reduce energy consumption, better ensure the operation stability of the equipment and prolong the service life of the equipment.

## Routine Care and Maintenance

1. The aluminum alloy surface will produce some stains after a long time of use. You can wipe with a towel dipped in banana oil or alcohol.
2. Because the parameters of the temperature controller of each ice cream cabinet are strictly set before leaving the factory. Non-professionals are not allowed to make adjustments without authorization. Even professionals are merely allowed to adjust the temperature in the ice cream display freezer's cabinet as needed.
3. During daily working hours, it is necessary to frequently observe the temperature changes in the display freezer's cabinet and whether the indicators are normal. In case of any problem, please immediately get in touch with professional maintenance personnel to solve the fault in time.
4. **Check the dust on the filter screen of the condenser according to the actual use environment. Under normal circumstances, it is recommended to clean it once a week. If the environment is relatively hostile, inspection and cleaning shall be performed at any time. Dust removal method: (1) Unplug the power plug. (2) Remove the rear grille. (3) Pull out the filter screen from the condenser, rinse the filter screen with clean water or tap lightly in an open and ventilated place to knock off the dust. Use a brush to remove dust from the condenser. (4) Place the filter screen and grille into place again,**

plug in the power supply, and restart the machine.

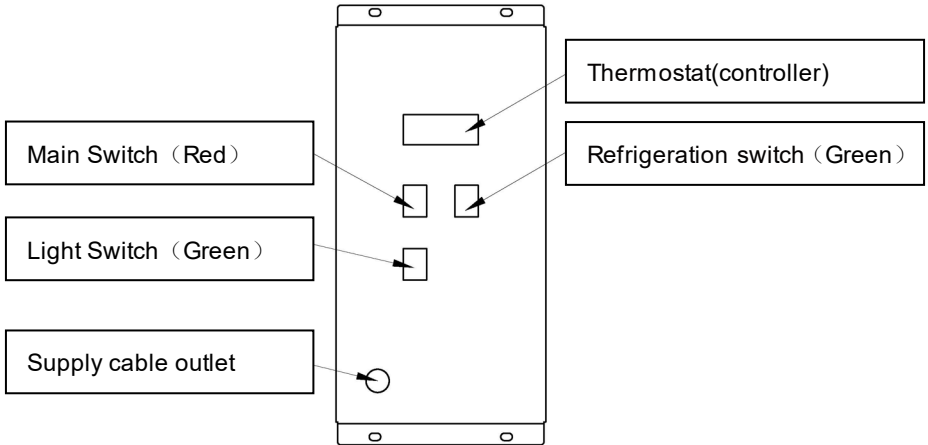


5.Regular defrosting shall be required to ensure normal cooling of the equipment. It is recommended to perform manual defrosting once a month under standard working conditions, and to perform manual defrosting once a week in high humidity environments. Operation steps: (1) Take out the items in the display freezer's cabinet, press and hold the button of "snowflake" on the thermostat for more than three seconds, the equipment will make a "puchi" sound, and the temperature controller display panel will display the word of "DEF". (2) Open the sliding door of the equipment, turn off the switch of the equipment after waiting for 3 minutes, and unplug the power supply.

6.It must be ensured that the inside of the ice cream display freezer's cabinet shall be cleaned every 4 to 7 days. Wipe the inner and outer surfaces of the display freezer with warm water and an appropriate amount of neutral detergent to keep the inside and outside of the display freezer clean. It is strictly forbidden to wipe it with boiling water, chemical thinners, gasoline, kerosene, volatile solvents and descaling powder to prevent damage to the display freezer. Special attention is required here! Before rinsing it with clean water, the drain pipe in the machinery space must be removed and placed in an empty bucket to receive water, otherwise, if there is too much water during the cleaning process, water will overflow from the water receiving box, resulting in a short circuit when the machine is turned on! ! If the operation is not carried out in accordance with the requirements of the INSTRUCTION manual, the user shall be responsible for the loss.

7. After cleaning the inside of the ice cream display freezer's cabinet, the equipment cannot be turned on immediately. It must be ensured that it is turned on after 6 hours after cleaning.


## Control panel






## Temperature adjustment












Indicator light	Symbol	Status	Meaning
Setting	set	ON	Parameter setting
		OFF	Status of temperature measuring
Refrigeration	❄️	ON	Refrigeration work
		OFF	Refrigeration stop
		FLASH	Refrigeration time delay
Defrost	❄️	ON	Defrost work
		OFF	Defrost stop
Fan	🌀	ON	Fan work
		OFF	Fan stop
Defrost dripping	drip	ON	Start defrost dripping
		OFF	Stop defrost dripping

Door switch		ON	Cabinet door open
		OFF	Cabinet door close


Keys	Function	Button action
Set	Enter the status of parameter setting;	Pressing the keys for 3s
	Switch between menu and parameter;	Press the response
	Adjust menu and parameters;	Press the response
	Open/close light(only valid for the modelwith light control)	Press the response
	Upload the data to copy card	Pressing the keys for 3s
	Adjust menu and parameters	Press the response
	Download the copy card	Pressing the keys for 3s
	Exit from parameter setting	Press the response
	Press 3s to forced switch between refrigeration,defrost/defrost delay, defrost dripping	Press the response
	Exit from parameter setting	Pressing the keys for 3s


## Keys operation

1) In the status of temperature measuring and controlling, press Set key for three seconds to enter user menu, it displays the code St, then press Set key again, display the value of St. It could be modified by pressing the key  or .When it displays the code St, press the key , display the code Po, then press Set key, display 00, at this time, press  or  to input the password "55" to enter administrator menu.Press Set key again to confirm the password input, and the controller will automatically verify the correctness of password. When it passes, it could select parameter items St、Po、C1、C2.....U1 (that is, any parameter items both in the administrator menu and user manuals) by pressing the key  or . Or else, only the parameters items St and Po available, others could not be displayed.


When the parameter item is selected, press Set key to enter to the setting of the current item, press  or  to modify the value, and then press Set key to return to the





menu. Under the status of parameter setting, press  key or no key operation within 30s, it will exit from parameter setting and automatically save the current parameter value.

Note: The password input of administrator menu only is valid for single entering. After exit from the parameter setting by pressing , it needs to input the correct password again for next parameter adjustment.

## 2) Temperature viewing

In the status of temperature measuring and controlling, press  to view the current evaporator sensor measured temperature value (note: evaporator sensor is enabled and works properly).

## 3) Manually forced operation

In the status of temperature measuring and controlling, press  for three seconds to force the switch between refrigeration, defrost/defrost delay, defrost dripping. Press  to open or close the light (Only valid when Light/alarm relay is used as light and there is no linkage between light control and door switch.)

## 4) Control output

Alarm code	Alarm reason
E1	Cabinet temperature sensor failure
E2	Evaporator sensor failure
E3	Condenser sensor failure
cH	Condenser high temperature alarm
rH	Cabinet high temperature alarm
rL	Cabinet low temperature alarm
Er	Copy card programming failure
EP	Inconsistent data between copy card and controller, programming failure

## Notes:

- 1.It is strictly prohibited to store inflammable, explosive, strong acid and strong alkali corrosive articles, such as butane, sulfuric acid, binder, alcohol, etc., in the refrigerator.
- 2.The compressor of the refrigerator shall not be started continuously. In any case, after each power cut, the compressor can only be started again after an interval of 4 to 5 minutes;
- 3.In the process of using the refrigerator, if there is any abnormal situation, such as abnormal noise, smell, smoke, etc., the power should be cut off immediately, and invite a professional maintenance personnel to conduct a thorough inspection. Do not restart the machine until the fault is resolved.
- 4.In defrosting, the interior of the glass in front of the ice cream cabinet will produce mist, which is a normal phenomenon. When the defrosting is over, the mist will disappear automatically.

## Trouble shooting

No.	Fault	Description	Potential Failure	Problem solving action
1	Compressor High Temperature Protection	Compressor shutdown	The compressor temperature is too high(high ambient temperature)	Switch off and waiting for the compressor cool down, the compressor will restart automatically
2	High voltage switching action	Compressor shutdown	high ambient temperature or the condenser block	Clean the condenser, add shading or ventilation equipment
3	Fuse broken	Compressor shutdown	Short circuit	Change the fuse

## The packing list

- |                                   |          |
|-----------------------------------|----------|
| 1、 Instruction book with warranty | 1 piece  |
| 2、 Fuse                           | 2 pieces |

**Note:**

- ◆ Due to continuous development of this product, we reserve the right to change all parts of the refrigerator without prior notice!
- ◆ According to the different requirements by customers, the parts and quantity in the packing list may be slightly different.

**Disposal**

If the appliance is no longer of use and you wish to dispose of it, please do in an environmentally correct way.

**Contact a qualified servicetechnician:**

1. To recover all Freon/refrigerant
2. To remove the compressor or remove the oil from the compressor
3. To remove the flammable insulation blowing gases

Then the distributor/ retailer can contact their local metal recycling center to pick up the remaining cabinet, shelves, etc.

There may be special requirements or conditions. You can obtain information on the disposal of refrigeration appliances from:

- Your supplier
- Government authorities (The local council, Ministry of the Environment, etc.)

By law, disposal of hazardous wastes may be subject to fines and imprisonment under the provisions of the environmental regulations.

1. If the refrigerant of the unit is a hydrocarbon refrigerant, it is covered by the Kyoto Protocol.
2. Releasing the refrigerant to the atmosphere will harm the environment by contributing to the global warming. The Global Warming Potential (GWP) of R134a is 1430, of R404a is 3922, of R600a/R290 is 3.



PAP

Discarded electric appliances are recyclable and should not be discarded in the domestic waste! Please actively support us in conserving resources and protecting the environment by returning this appliance to the collection centres (if available).

Dispose of packaging in accordance to applicable legal regulations.