



USER MANUAL

REFRIGERATED MEAT DELI CASE



MODEL: SDC48, SDC72, SDC98

SDC48-F, SDC72-F, SDC98-F



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Product Introduction

1. These products are designed specially for convenience store based on Chinese environment, according to the most popular structure, with the high quality parts, elaborate, reliable, elegant and luxury appearance, with complete function. These showcases have compact structure, with sleek, luxury, European style appearance.
2. Back flow refrigeration system to make sure the even temperature; Precise defrosting control system with reliable performance; Adopting natural air defrosting to reduce the power consumption.
3. The length of horizontal showcase is : 1200mm 、 1500mm 、 1800mm. The control temperature is from -2 to 2°C , they are suitable for showing milk ,soft drink , fresh meat and other cooked food, The inside material of the showcase is stainless steel, which is anti-corrosion , easy to clean, simple operation and no pollution to the food.

The cooked food showcase appearance looks luxury and European style, the hyperboloid toughened glass is solid and reliable with the best showing effect, the appearance is simple but elegant, The arc glass window is easy to open to take out the food, another option is that there is one type of arc glass window is fully sealed, very safe and clean, no pollution, with diverse dimension for your choice; Cold showcase has the advantage of fashion ,simplicity, convenience, it can combine fresh with showing function to control the temperature from -2 to 2°C , suitable for cold fresh meat ,fish ,other seafood, refined processed food and also suitable for reserving drinks, tea, vacuum food, vegetable, sushi. It is the best choice for super market, hotel, shopping mall.

4. Product features:

- High quality unit, with split type and internal type for your choice, it is low noise, high efficiency and environment friendly and save energy.
- Computerized fully automatic temperature control system, easy to operate and precise to control
- With overall foam technology and environment friendly foam material to realize better power saving and healthier.
- The cold air evenly spread, stable temperature inside, the food is not easy to air drying
- Pure copper pipe with aluminum evaporator to get more even refrigeration in shorter time

- The front open type of arc reinforced glass gives nice showing effect and saves energy
- PU overall foam with fully sealed design, is safe and saving power, good appearance
- It is suitable for wide climatic zone, diverse voltage, wide application, more stable
- Refrigeration system adopts famous brand compressor, electronic temperature control is very precise and high efficient.
- It adopts the drainage and pressure from evaporation system to easily deal with condensed water.





Safety sign and notice

Safety: Horizontal showcase should be installed on the suitable place according to the requirement in the manual book.


Authorization: All the jobs relative to showing case and refrigeration system should be done by qualified and authorized professional workers.

Safe operation: In order to avoid possible danger, before operation, all the workers should study manual book carefully.

Safety notice: These safety notices are marked specially, in order to avoid danger, they must be abided by.

Notice!		To prevent possible small danger on equipment
Be careful!		To prevent possible small danger on workers
Caution!		To prevent possible serious danger on workers
Danger!		To prevent serious accident on workers

Transportation and unpacking notice

 There is fragile glass inside the equipment and the package, please handle with care, when you transport and carry on and move the equipment.



When you unload the equipment from the truck, please use the double fork lift paying full attention, if you use the crane, please fix the specified position with steel rope or cable with diameter above $\phi 10\text{mm}$ to move down it safely.



When you move the equipment, please don't move the wood tray under the equipment, don't move inside the equipment to avoid damaging; meantime, please move equipment stably to avoid any inclining, lying on or reversing.



Horizontal case, unit and spare parts installation will be done by authorized workers from our company, please don't open the package by yourself to avoid any damage of the case and parts.



You need to open the package carefully to avoid any damage on the case and parts; please don't mix and lose any spare parts inside one package, you should assembly directly on the set down location.

Operating Notice

1. Position



Horizontal showcase must be located inside the room, cannot be used outdoor, it must be located in the stores, super market, hotel with good air condition to make sure the temperature keep on or below 25°C , humidity 60%, the wind speed less than 0.2m/S and there is no other thermal resources around. When the temperature, humidity and wind speed around is above this situation, the horizontal showcase refrigeration effect cannot reach to the requirement, if the humidity is above 60%, there will be condensation on the glass, it is normal situation and will disappear when the humidity going down.

2. Detailed operating requirement:



During the operation, the voltage should be kept stable within $\pm 10\%$ of stated power, if the voltage is not stable, please use the safe and reliable adaptor.



The environment temperature of condensing unit should be below than 40°C , The environment should be clean without sundries and well ventilation; if condensing unit are located outdoor, you should put rain-proofing, sun-proofing and metallic wire protection device.

🔊 Horizontal showcase should be installed on the smooth and even ground, keep it horizontal and make sure well water drainage.

🔊 To avoid putting showcase under the sunshine, light or any other thermal source area.

🔊 To avoid putting the showcase near air inlet and outlet, fan or other door and window which need often open, not to have influence on the air curtain.

Installation

🔊 To take out the spare parts inside the showcase and check them according to the parts list.

To connect the showcase (if you choose the all in one machine, this section is not included)

🔊 To stick the sponge glue trip on the joint place, and put the sealant continuously and evenly on the outside of the sponge glue trip.

🔊 To move on these two case unit closely and adjust the bolt and case to make sure the showcase aligning from high and low, front and back.


🔊 To put alignment pin on the showcase and move these two parts close to each other.

🔊 Fasten the bolt and nut on the showcase.


🔊 To install the spare parts on the showcase, to make sure all the parts like shelf, supporting arm, label should be put on the same position with same angle.


⚠️ To install the drainage elbow-junction according to the reserved drainage channel position, make sure that there is proper sealant on the joints to avoid any leakage.


⚠️ To arrange, install and connect the refrigeration pipe and electric circuit according to the layout.


 After the correct pressure test, please evacuate and add into fluorine and check if there is any error on the electronics.

 To install the plaque including bottom, side, top plaque and joint plaque.


 To check the spare parts and adjust to the right position.


 To check all the electronics, refrigeration unit if there is any losing or error on them after installation.


 To clean the showcase outside and inside with alcohol or cleanser.


 To transfer the manual book, spare parts to customers and explain the operating notice to customers and make sure customer sign on the project transfer confirmation list to complete the installation.


1. Operation

 Please keep some space during putting food into the showcase to give better air recycle and food storage.


 Don't put food beyond or block the fan inlet to prevent the cold air recycle.


 Don't put food near air returning outlet, otherwise it will cause the incorrect temperature inside the showcase.


 Notice: Don't put wrongly the frozen and chilled food in the wrong showcase.

 In order to avoid unnecessary food waste and power waste, the food inside showcase should be with proper package and make sure to reduce the open and close times of the showcase.

2. Safety Notices:

 After powering on, please make sure the temperature inside the showcase going down to the required range, then putting the goods inside.

 There should be individual plug in, reliable earth wire and suitable air switch with leakage protection function on the horizontal showcase, the earth wire cannot be connected to null line, water pipe or heating pipe.

 Don't store any inflammable, explosive, volatile gas or liquid inside the showcase.



Before cleaning the showcase, please cut off the main power and make sure there is no power and then start the clean job.



To clean the showcase outside and inside with the soft fabric which is dipped into neutral non-corrosive detergent, after that to wipe them dry, please don't use the acidity, alkaline, and any other corrosive, poisonous liquid to clean the showcase.



When you take out or put in the food into the showcase, please gently and don't throw into to avoid any damage.



Make sure to restart the power after 5 minutes from last power off, to avoid damaging the electronic parts inside showcase.



To check the defrosting situation regularly inside showcase, if there is any remaining, please contact the professional workers to resolve them.



Please assign the workers to check the showcase regularly, to check the temperature changes inside and make records; if you find any abnormal, please contact with us or local service people to resolve any possible problem to guarantee the normal usage and avoid any loss for you



During the usage, please don't take out food with wet hands, or stand near to the showcase to avoid frostbite.

6.Maintenance

Refrigeration maintenance

Condenser maintenance:

Condenser is the main heat dissipation unit inside the refrigeration system of horizontal showcase, the dust easily sticks on the aluminum heating sheet, if it is not serious, it will have influence on the compressor refrigerating function, if it is serious, it will lead to the compressor burnt up.



Please make sure power off before you start cleaning and there is no power on the refrigeration system.



When you clean the condenser with water, please clean from up to down and make sure all the sheets on the condenser are cleaned evenly.



When there are serious oil or dust on them, please add neutral detergent or special detergent on aluminum to clean them.



Notice: To prevent water into fan or condenser.



After cleaning, please use high pressure nitrogen or compressed air to blow on condenser to move out the water and dust on the sheets.



Notice: don't wash and blow towards the fan and condenser.



To check the fan of the condenser and compressor, make sure there is no error on all the electronic parts before powering one.

Compressor maintenance:



To check if the foundation of compressor is fasten, or any loose or displacement.



To check the oil lens on the compressor, the oil level should reach from the half to one third of the oil lens (when still situation), should reach from one fourth to two third (when running situation)



To check the pressure control, temperature control, defrosting time control, oil pressure control device, cooling spray system, T-joint, stop valve in the system.



To check the light, temperature display, electronic valve, electronic heating system.



To check the wire connection, if they are fasten and isolated sealed on the joints.



To check the voltage, phase sequence, make sure the tolerance between different phase voltage is equal or less than 3%, compressor or condenser voltage and phase sequence are correct.



To observe if there is any abnormal noise or situation in the running system.



Notice: Must cut off the power when checking the electronics, only be done by the professional workers.

Drainage maintenance



To check the drainage situation inside and outside the showcase, to make sure there is no dust block or ice block on the outlet.



To check the drainage pipe to make sure the pipe decline to the floor drain, the declined degree is from 1/50 to 1/200



To check if there is any leakage or damage on the drainage pipe.

COMMERCIAL REFRIGERATOR SAFETY

Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.

Our product instructions will be uploaded on our company official website.



This is the Safety Alert Symbol. This symbol alerts you to potential hazards that can kill or injure you and others. All safety messages will follow the Safety Alert Symbol and either the words "DANGER", "WARNING" or "CAUTION".



Danger means that failure to heed this safety statement may result in severe personal injury or death.



Warning means that failure to heed this safety statement may result in extensive product damage, serious personal injury, or death.



Caution means that failure to heed this safety statement may result in minor or moderate personal injury, or property or equipment damage.

All safety messages will alert you to what the potential hazard is, tell you how to reduce the chance of injury, and let you know what can happen if the instructions are not followed.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

This appliance can be used by children aged from 8 years and above and persons with reduced

physical sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children

without supervision.

KKeep the appliance and its cord out of reach of children less than 8 years.

Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

The max. loading of shelves is 10kg.

The appliance shall be used at an ambient temperature listed according to its climate class:

*32 °C ± 2 °C on appliances of climatic class 0, 1, 2, 3, 4, 6 or 8;
43 °C ± 2 °C on appliances of climatic class 5 or 7.*

The appliance uses flammable insulation blowing gas C5H10, disposal of the appliance shall be in accordance with the regulations of local authorities.

The appliance provided with double-capped fluorescent lamps; the lamp has to be replaced by identical lamps only.'

The key for appliance electric box should be safe kept by qualified persons in order to avoid a hazard

When positioning the appliance, ensure the supply cord is not trapped or damaged.

Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance

Based on business order(s) to EU market, give true EU authorized representative information on the label with full business name and full EU address in the marking plate.

If the appliance uses flammable refrigerant, such as R600a, R290:



Warning; Risk of fire / flammable materials

WARNING: Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.

WARNING: Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

WARNING: Do not damage the refrigerant circuit.

WARNING: Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.

Handling, moving, and use of the refrigerator or freezer to avoid either damaging the refrigerant tubing, or increasing the risk of a leak

Cautions – Risk of Fire or Explosion due to Flammable Refrigerant Used. Follow Handling Instructions Carefully in Compliance with U.S. Government Regulations

Component parts shall be replaced with like components and that servicing shall be done by factory authorized service personnel, so as to minimize the risk of possible ignition due to incorrect parts or improper service.

CAUTION – Risk of Fire or Explosion Due to Puncture of Refrigerant Tubing; Follow Handling Instructions Carefully. Flammable Refrigerant Used

DANGER: Risk of child entrapment. Before you throw away your old refrigerator or freezer:

Take off the doors

Leave the shelves in place so that children may not easily climb inside