

UPRIGHT SHOWCASE

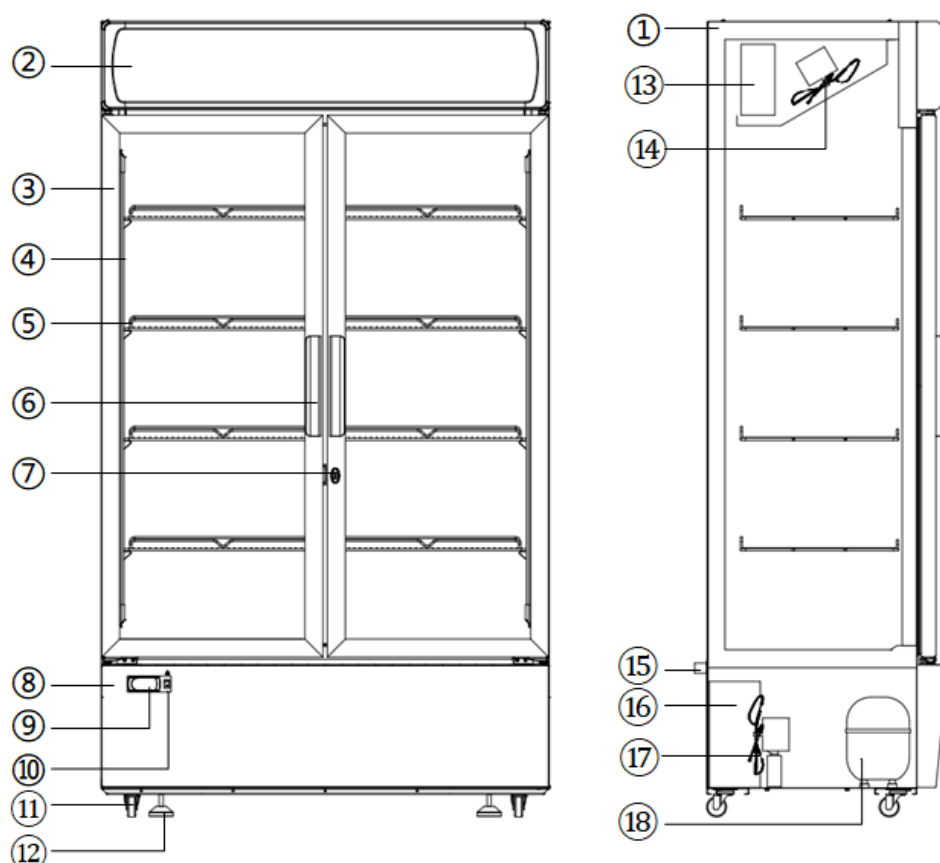
OPERATING INSTRUCTION MANUAL



Dear Customer :

Dear users (customer), this manual contains the product's basic knowledge, use instruction, fault diagnosis and basic trouble shooting methods. In order to better understand and use this product, please take good care of this manual and before installing your cooler, read it carefully.

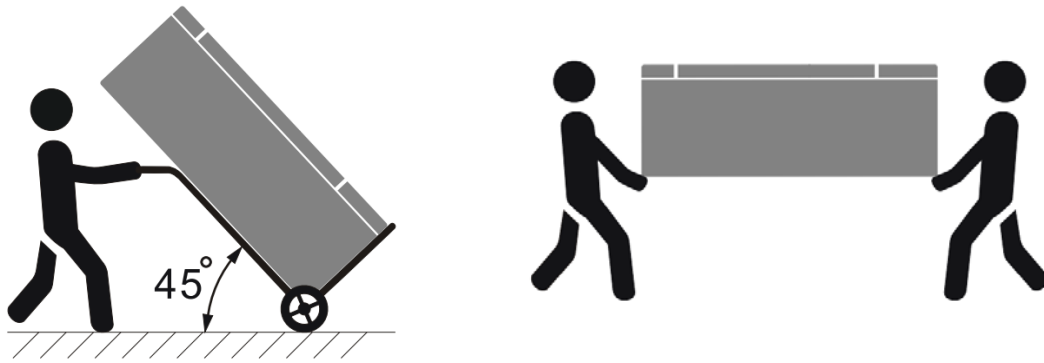
I . Product description



No.	Description	No.	Description
1	Cabinet	10	Light switch
2	Canopy	11	Universal wheel
3	Glass door	12	Adjustable foot
4	LED light	13	Evaporator
5	Shelf	14	Evaporation fan
6	Handle	15	Stop block
7	Lock	16	Condenser
8	Decoration panel	17	Cooling fan
9	Electronic controller	18	Compressor

Please kindly note that the parts may be not exactly the same as the ones in this manual because of improvement.

II. Transportation and Placement



1. Don't slant it over more than 45°, while moving it.
2. The cooler needs to stand upright for 4 hours before it is powered on, while the product is transported upside down.
3. The unit is for indoor application only.
4. Due to the fact that the unit has a glass door, its performance is highly influenced by environmental conditions. To minimize the environmental effects on the unit's performance, the following are recommended:
 - The unit is not to be placed near any kind of heat source
 - The unit is not to be placed near or inside air streams produced by ventilation fans, open doors and/ or windows
 - The unit is not to be situated under a roof-mounted ventilation system.
 - The unit should have sufficient space to 'breathe' (always use the rear space to ensure minimum clearance).
 - The unit should not be placed under direct sunlight.
 - Keep all ventilation openings in the appliance enclosure or in the structure clear of obstruction.
 - In order to reduce fire hazard, the installation of this appliance must be carried out only by a suitably qualified person.

III. Installation Instructions

1. Unpack all the packages and clean all the cabinet using warm water together with 5% of neutral soap then dry it with a soft-cloth; for the glass parts only use specific products, avoiding the use of water which can leave on the glass limestone residues.
2. Keep a distance from the wall of 10 cm at least. Please level the unit settling the adjustable feet.
3. Cabinet must be installed on a perfectly even surface, far away from any heat source included sun rays.
4. Do not install the unit in open places and do not expose it to rain.

Leveling the unit :

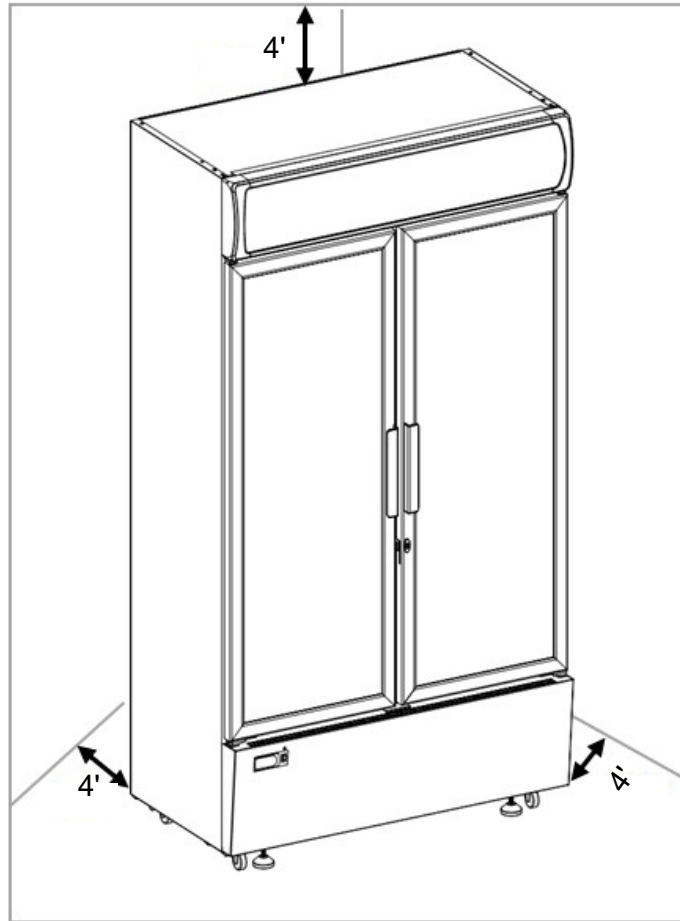
Place the unit at the chosen location. Using a spirit level, check whether the unit is leveled in both directions.

The spirit level can be placed on one of the shelves.

It is essential that the unit is leveled during operation so as to avoid possible ice formation on the evaporator's fins due to insufficient drainage of the condensates.

Tilt unit by 2° angle for easy closing of door and drain.

- Do not insert cream or spray bottles inside the cooler.
- Do not store explosive substances such as aerosol cans with flammable propellant in the cooler.



Note: product space demand size schematic diagram

IV. Important safety instruction

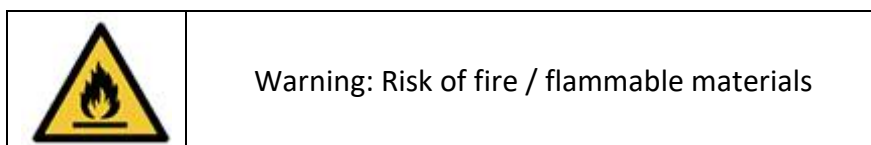
1. Individual single-phase socket must be used. It should be reliably connected to a grounding wire. Caution: The grounding wire is not allowed to connect to a water pipe or a gas pipe.
2. Strong base, strong acid, organic solvent and corrosive goods or those are easy to pollute to food are prohibited storing in the showcase; otherwise, it can cause corrosiveness or accident.
3. Don't raise the showcase or the shell of the electric parts, or it will cause the decline in insulation and cause corrosion.
4. When the showcase will be out of use for a long time, disconnect the power first, then clean it. Please examine the circuit whether it is ok before reuse.
5. If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
6. The appliance shall be disconnected from its power source during cleaning or maintenance and when replacing parts.
7. Do not store explosive substances such as aerosol cans with a flammable propellant inside the appliance.
8. Flammable blowing gas of the cooler should be handled according to local regulations. Before you scrap the appliance, please take off the doors to prevent children trapped.

⚠ WARNING

1. Risk of fire / flammable materials, taking care to avoid causing a fire by igniting flammable material.
2. Keep clear of obstruction all ventilation openings in the appliance enclosure or in the structure for building-in.
3. Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
4. Do not damage the refrigerant circuit.
5. Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
6. Please according to local regulations regarding disposal of the appliance for its flammable blowing gas. Before you scrap the appliance, please take off the doors to prevent children trapped.
7. The ambient temperature and humidity conditions of the show case climate class following the tab below:

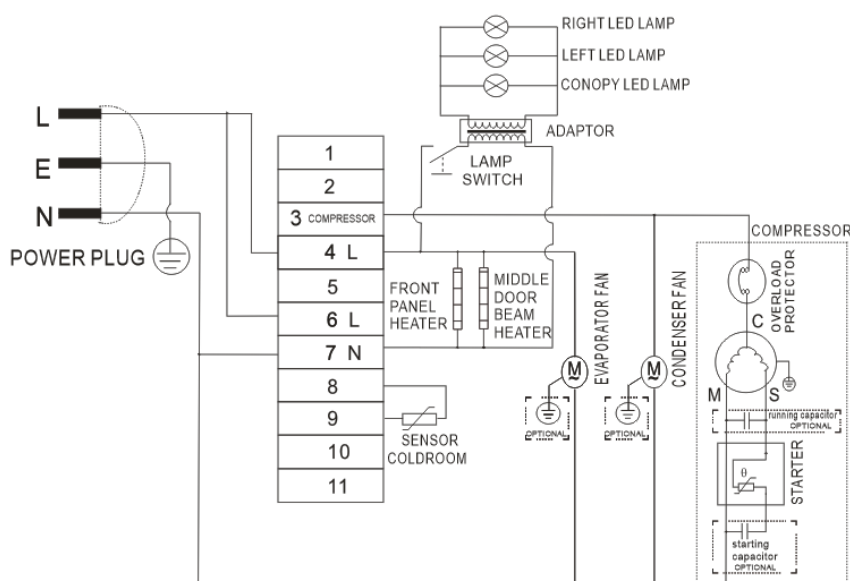
Test room climate class	Dry bulb temperature (°C)	Relative Humidity (%)	Dew point (°C)	Water vapor mass in dry air (g/kg)
3	25	60	16.7	12.0
4	30	55	20.0	14.8
5	40	40	23.9	18.8
7	35	75	30.0	27.3

NOTE: the water vapor mass in dry air is one of the main points influencing the performance and the energy consumption of the coolers. Therefore, the order of the climate class in the table is based on the water vapor mass column.



V. Electrical Connection

Electronic diagram



VI. Operation Instructions



Display and functions

During normal operation, the controller displays the inner temperature. In addition, the display has LEDs that indicate the activation of the control functions (see Table 1), while the 3 buttons can be used to activate/deactivate some of the functions (see Table 2).

LEDs and associated functions

Index	Function	Normal operation			Start up
		ON	OFF	Blink	
1	Compressor	ON	OFF	Request	ON
2	Defrost	ON	OFF	Request	ON
3	Digit	2 digit LED display with sign (-99 to 99) and decimal point			

Table.1

Table of functions activated by the buttons

Index	Button	Normal operation		Start up
		pressing the button alone	pressed together	
1		more than 3 s: toggle ON/OFF	pressed together display defrost probe temp.	---
2		more than 3 s: start/stop defrost		
3		1 s: display/set the set point	---	Pressed together start parameter reset procedure

Table.2

VII. Product troubleshooting

Please refer to the below trouble shooting lists to overcome any minor problems that occurs during operations.

Trouble	Reason	Check	Solution	Remark
No display on the display panel	The power plug is not properly plugged in	Plug in the power socket	Reconnect the power	
	Outage	Check the socket has electricity or not	Reconnect the power	
key invalid	/	/	Contact our professional after-sales service technician	

Lamp is not lighting on	No voltage	Fuse breaking off	Check fuse	Change fuse	Contact our professional after-sales service technician
		Poor connection between the plug and socket	The connection lease or not	Repair or change socket	
	Have voltage	lamp has poor contact or worn down	Check the circuit and lamp	Tighten the connection or change a new lamp	
		Lamp switch has poor contact	Check the switch	Tighten the connection or change a new switch	
Condenser fan not running	Condenser fan is broken down		check condenser fan resistance	Change condenser fan	Contact our professional after-sales service technician
	Condenser fan is blocked		clear the blocked	clear the blocked	
Condenser fan operates continuously	Temperature is too high inside of the cabinet	Open the door too frequently	/	/	Contact professional after-sales personnel
		Too much storage	Air outlet is blocked	Take out part of the storage	
		Leakage of refrigerant.	/	Contact professional after-sales personnel	
Noise	Cooler isn't placed levelly		Check if the four wheels adjusted to the same level and touching the ground	Adjust the wheels	Contact professional after-sales personnel
	Fixing screws of compressor or condenser fan are loose		Screws fixed tightly or not	Tighten the screws	
	Compressor or fan defective		Check the Compressor or fan	Contact professional after-sales personnel	
Condenser fan is working, but the compressor doesn't operate	The terminal of starter or OLP is loose		Check the starter and OLP	Install the starter or OLP	Contact professional after-sales personnel
	Compressor defective		Check the resistance of compressor CSM terminal	Change new compressor	
	Voltage is lower than 97V or 187V		Check the input Voltage	Use a voltage stabilizer	
Evaporator fan not running	No voltage/ Poor connection between the terminal		Check the resistance of switch	Change the switch	Contact professional after-sales personnel
	Evaporator fan broken down		Remove evaporator fan	Renew evaporator fan	
Electrical cable Broken down				Change the electrical cable	Ask professional to maintain
Screen no display	Temperature display no voltage		Check the voltage		If it is necessary, please ask to the electrician to maintain.
			Check the temperature display		
Screen display "E1" or "E2"	Sensor fault		Check the sensor		Ask professional to maintain
Power cord broken down	Not placed in correct position and broken during transportation		N/A	Change the power cord	Contact professional after-sales personnel

Notice: The following are not trouble but common phenomenon:

1. Sound, the refrigerant flows inside the cooler.
2. Compressor and condenser become hot.
3. If the ambient humidity is high, there may be dew drop on the surface, please use soft and dry cloth to clean in time.

VIII. Product Cleaning

External cleaning

- Doors and freezing room should be cleaned with a mild detergent and warm water solution, such as a mixture of 30g detergent to 7.5 liters of hot water, clean with a soft sponge, and then clean again with water. To prevent water residue, wipe again with a soft dry towel.
- **Warning**
 1. Make sure the machine is disconnected from the power supply before performing cleaning and maintenance operations.
 2. Do not use corrosive cleaning agents to clean the interior of the freezing room and the wire rack

IX. Caution for Safety

- **Warning!** Do not damage the cooling fluid circuit.
- **Warning!** Do not damage walls of the machine: the cooling fluid circuit may damage.
- **Warning!** Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
- **Warning!** The equipment must not be used by persons (including children) whose physical, sensorial, or mental capacities are reduced, or who lack experience and know-how, unless they have been provided, by means of a person responsible for their safety, with suitable monitoring or instructions about the use of the equipment. Children must be monitored to ensure they do not play with the equipment.

X. Disposal



This appliance may not be treated as regular household waste, it should be taken to the appropriate waste collection point for recycling of electrical components. For information on local waste collection points, contact your local waste removal agency or government office.

