TEFCOLD®
Cool Products Worldwide

Operation Instruction for Display Cabinet



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Precaution

1 Please read the manual carefully before using the cabinet. For any doubt, please contact our company.

2 This series of products are mainly applicable to refrigeration and display cakes and relevant food. During normal operation, the temperature inside the cabinet is 0~8℃(for LDP-series) or 2 ~ 8℃(for LCT series). Do not use this equipment for other purposes in case of serious accidents.

3 The equipment is suitable to be placed in supermarket, cake store and hotels.

4 The equipment shall be put at dry place with good ventilation. Don't put it near any heat source or dust. Don't place it directly under the sunshine.

5 Put the equipment on a flat and solid place. The distance from the wall or other objects shall not be less than 20cm.

6 It is a kind of electrical equipment. Please pay attention to the safety.

- Independently single-phase three-pole socket shall be used. The earth wire port (E) of the socket shall be reliably grounded.
- The power supply shall be 220 ~ 240V/50Hz. Otherwise, power supply stabilizer with capacity matching with the equipment power shall be installed to ensure smooth operation of the equipment.
- The power cord of the equipment shall not be directly placed in the aisle. Avoid heavy weight and sharp objects.
- Do not operate the equipment with wet or naked hand or foot.
- Please cut off the power supply if the equipment is not to be used for long time.
- Please cut off the power supply before installation or dismantling the parts.
- Never flush the equipment directly with water; otherwise the parts will get wet and current leakage might be resulted.
- In case of electrical or refrigeration failure, service agent authorized by the manufacturer or professional maintenance staff shall be responsible for the maintenance work in case of danger or expanded failure.

7 Do not store explosive substances such as aerosol cans with a flammable propellant inside the appliance.

8 WARNING – Keep clear of obstruction all ventilation openings in the appliance enclosure or in the structure for building-in.

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

10 WARNING – Do not damage the refrigerant circuit.

11 WARNING – Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
12 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.
13 If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
14 The maximum loading of every shelf is 30kg(for LDP- series) or 10kg(for LCT series).
15 Climate class 3 means 25℃,RH60%.
16 This appliance can be used by children aged from 8 years old 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.
17 Children shall not play with the appliance.
18 Cleaning and user maintenance shall not be made by children without supervision.

Transportation and handling

1 Special package box will be used for the equipment for delivery. Keep the equipment erect during transportation and handling.
2 Please carefully check the package box after receiving the product to ensure that the equipment is not damaged during transportation.
3 When removing the package box, carefully move away the wood plate in case of scratch the equipment.
4 In case that the equipment tilts during the transportation and handling, the lubricant in the compressor may flow into the cooling loop. Therefore, in order to ensure the lubricant flows back to the compressor, it is necessary to keep the equipment erect for 24 hours before it starts to work.
5 Do not throw away the package removed randomly. Please dispose as per relevant local rules and regulations.

Installation and operation

1 After the equipment is installed, please carefully clean parts in the cabinet .Then wipe clean the bottom cover plate and shelf, put them on corresponding place, close the cabinet door and get it connected to the

power supply.

2 Turn on the lighting switch, check light on each shelf is normal.

3 The controller is delivered with default parameters. Do not alter the parameters casually except for special need.

4 When running for the first time, it should run without load for 2 hours to ensure the refrigeration system is working normally. Only when the temperature within the cabinet is reduced within the indicated scope can the food be put into the cabinet.

5 Don't put too much over-hot food in the cabinet to prevent instantaneous high load. The food shall not block the air outlet and air inlet. Nor shall it be close to side glass. Otherwise it will lead to condensation.

6 To save electricity, the heating wire switch is defaulted to be closed. If the environment humidity is large, and there is condensation on the front glass, please open it for defogging.

7 To keep the taste of the food, please have the equipment running 24 hours a day.

8 During the frosting process, the temperature of the cabinet may rise slightly. When the frosting end, it will return to normal .

Maintenance

1 In order to ensure food health and quality, please ensure to that the equipment is cleaned frequently.

2 Before cleaning, plug off the power supply.

3 Use neutral detergent and mild water to clean the cabinet. To get rid of the residual of the detergent, please use clean cloth to wipe repeatedly.

4 Clean the dust and sundries on the condenser regularly on monthly basis. Take off the dustproof hood, flush the filtration mesh with clean water and then put it back after being dried-out.

5 Do not use any organize solvent (gasoline or alcohol etc.) to clean the equipment. Parts inside the equipment may be damaged. Besides, explosive gas may be generated.

6 Wet towel may be used to wipe the equipment surface. However, do not have it contact with water directly.

7 After cleaning the equipment, please ensure it is completely dried before using.

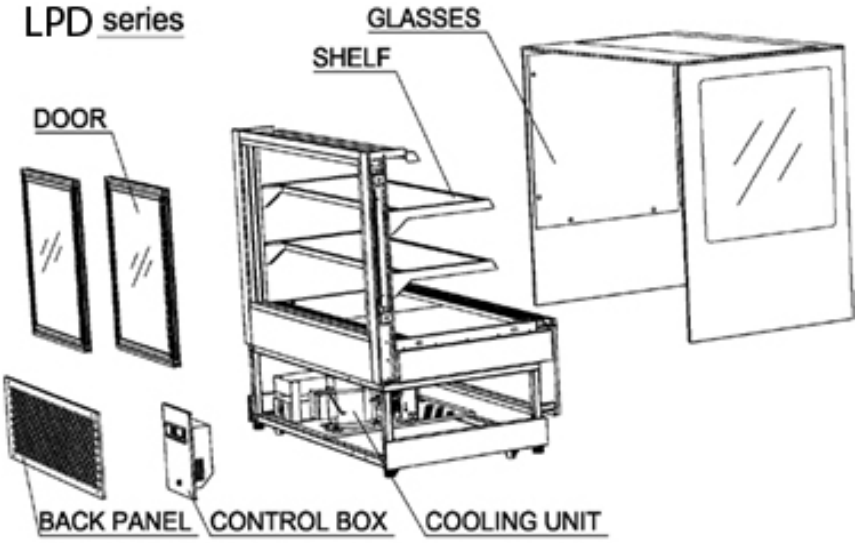
Troubleshooting

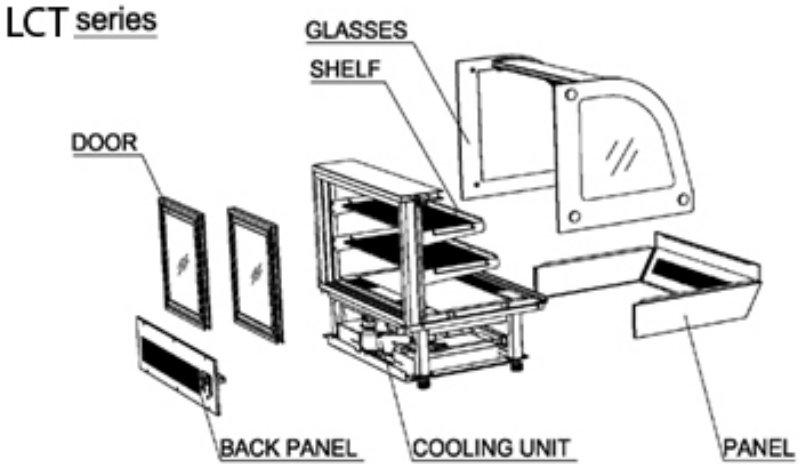
Troubles	Causes	Solutions
No power supply input	Poor socket contact	Repair or replace the socket
	Input control wire failure	Repair the failure point
High cabinet temperature	Near a heat source	Move the counter or the heat source
	Frost block	Defrost manually
	Over-inventory in the cabinet which blocks the air outlet and inlet	Take out part of the goods, move them away from the air outlet and inlet
	Refrigerant leaking	Check the leak and refill refrigerant
	Condenser contaminated	Clean the dust-hood
	Fan failure	Repair or replace the fan
	Temperature controller failure	Replace the temperature controller
	Temperature control probe touch the bottom	Replace the position of temperature control probe
Too much noise	The product is not put smoothly	Adjust the feet
	The set screws of fans or compressor are loose	Tighten the screws
The compressor is not running	The voltage is beyond the permitted range	Use a voltage regulator,and connect with the appropriate power supply
	Temperature controller failure	Replace the temperature controller
	The compressor damage	Replace the compressor
The light failure	Switch off or failure	Turn on the switch
	Wire connection is not reliable	Check the plug point
	The light power supply damaged	Replace the light power supply
	light damaged	Replace the light

Note:

1. For simple troubleshooting, please be sure to disconnect the power supply.
2. For the maintenance and replacement work, please call for professionals or the maintenance staff from the refrigeration factory of the manufacturer.
3. If the above methods could not solve the problem, please call for professionals.

Structure diagram



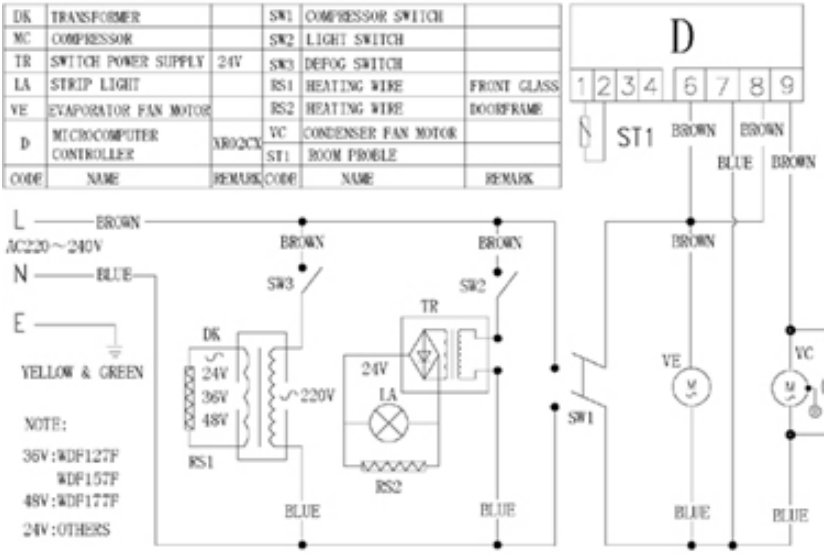


Note: refer to the real object in case of change of the product structure.

Circuit diagram

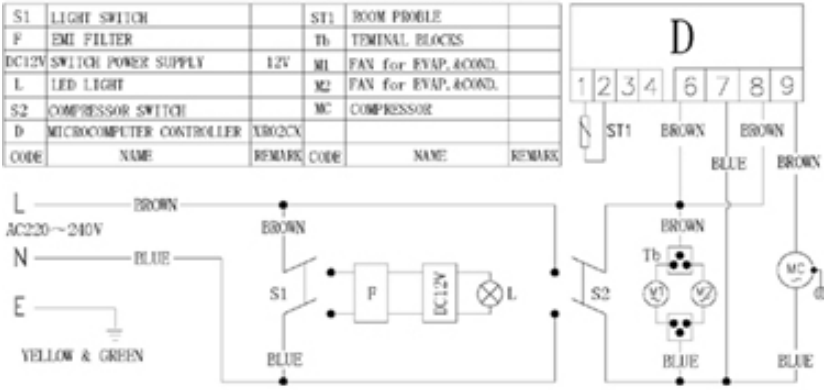
for LPD series

DK	TRANSFORMER		SW1	COMPRESSOR SWITCH	
MC	COMPRESSOR		SW2	LIGHT SWITCH	
TR	SWITCH POWER SUPPLY	24V	SW3	DEFOG SWITCH	
LA	STRIP LIGHT		RS1	HEATING WIRE	FRONT GLASS
VE	EVAPORATOR FAN MOTOR		RS2	HEATING WIRE	DOORFRAME
D	MICROCOMPUTER CONTROLLER	XR02CX	VC	CONDENSER FAN MOTOR	
			ST1	ROOM PROBLE	
CODE	NAME	REMARK	CODE	NAME	REMARK



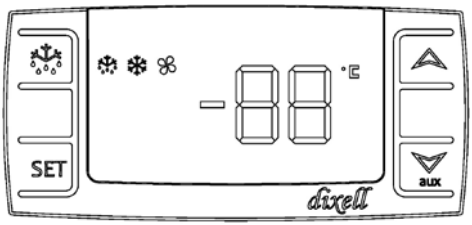
for LCTseries

S1	LIGHT SWITCH		ST1	ROOM PROBLE	
F	EMI FILTER		Tb	TERMINAL BLOCKS	
DC12V	SWITCH POWER SUPPLY	12V	M1	FAN for EVAP.&COND.	
L	LED LIGHT		M2	FAN for EVAP.&COND.	
S2	COMPRESSOR SWITCH		MC	COMPRESSOR	
D	MICROCOMPUTER CONTROLLER	XR02CX			
CODE	NAME	REMARK	CODE	NAME	REMARK



Note: the part in dotted line box is not applicable to some types. Please refer to the real object for the wiring circuit.

Setting of the digital controller



1 Refer to the digital controller operating manual to see how to use the controller.

2 The setting values for the products as follows:

LABLE	DESCRIPTION	VALUES	
		LDP- series	LCT series
SET	Set Point	2℃	2℃
Hy	Differential	3℃	3℃
od	Output activation delay at start up	1min	1min
AC	Anti-short cycle delay	5min	4min
CH	kind of action	cL	cL
rE	Resolution(only for ℃)	in	in
id	Interval between def. cycles	6h	3h
Md	Max length for def.	15min	15min

Major technical parameters

1 These products are designed with climate type 3;

2 These products are designed with electric shock protection type I.

Model	Storage temperature (℃)	Power supply	Input power (W)	Refrigerant	Volume (L)	Dimension (L×W×H /mm)
Right-angle Display Cabinet						
LDP900F	0 ~ 8	220 ~ 240V 50Hz	510	R290	311	900×750×1200
LDP1200F			700		421	1200×750×1200
LDP1500F			800		532	1500×750×1200
Single-arc Display Cabinet						
LDP900C	0 ~ 8	220 ~ 240V 50Hz	510	R290	306	900×750×1350
LDP1200C			700		410	1200×750×1350
LDP1500C			800		518	1500×750×1350
Square Countertop Display Cabinet						
LCT750F	2 ~ 8	220 ~ 240V 50Hz	242	R290	120	700×560×670
LCT900F			242		160	900×560×670
Curved Countertop Display Cabinet						
LCT750C	2 ~ 8	220 ~ 240V 50Hz	242	R290	100	700×560×670
LCT900C			242		130	900×560×670

Disposal of the product



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

Warranty Information

The manufacturer provides warranty in accordance with the legislation of the customer's own country of residence.

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