Commercial Refrigerator and Freezer

Instruction Manual

（Chef base）

IMPORTANT:

Please read this manual carefully before installing and operating the display refrigerator. Keep this manual handy for further reference.

The DCB series equipment is intended for use in rooms where the environmental conditions are controlled and maintained such that the ambient temperature typically does not exceed 86℉（30℃）

Esteemed user,

Thanks for your choice!

In order to ensure your safety and achieve the best using effect, please read these instructions carefully.

I. Introduction:

1. Using hermetic compressor of high quality and efficient with a wide work range. The whole refrigerate system mate well, high refrigerate speed and low energy consumption.
2. The frame net can be adopted willfully.
3. Goods stored can be displayed clearly through the door made from luxurious hollow grass.
4. The inner box made of figured stainless steel ensures conducting cold quickly.
5. At the top front of the cabinet, there is a light box for convenience

II. main technical data:

RATED VOLTAGE (V)	115
RATED FREQUENCY(Hz)	60
TEMP RANGE	0-10℃(34~47℉)

III. CAUTION FOR SAFETY .

1. Leave enough space from the wall to the cabinet and the ceiling; do not be sealed completely in the back part of the cabinet, prepare an air vent to the outside.
   Caution: It needs more than 20 cm from the cabinet to wall.
2. Please move away all out-package for bottom heat radiation to avoid fire.

3. It's prohibited to store flammable and volatile chemical, or leading to exploding.
4. individual single-phase socket must be used. It should be reliably connected to a grounding wire.
   Caution: Do not connect grounding wire to a water or gas pipe.
5. Do not be hard collided or fiercely vibrated when in transportation; it is not larger than 45°for the inclination of the cabinet.
6. Please refer to the Trouble Shooting references when the unit is facing some problems. Do not attempt to solve the problem on your own, Please refer to certified technician only.

7. **DANGER** - Risk of fire or explosion. Flammable refrigerant used. Do not use mechanical devices to defrost refrigerator. Do not puncture refrigerant tubing.
   DANGER - Risk of fire or explosion. Flammable refrigerant used. To be repaired only by trained service personnel. Do not puncture refrigerant tubing.
   CAUTION - Risk of fire or explosion. Flammable refrigerant used. Consult repair manual/owner's guide before attempting to service this product. All safety precautions must be followed.
   CAUTION - Risk of fire or explosion. Dispose of properly in accordance with federal or local regulations. Flammable refrigerant used.
   CAUTION - Risk of fire or explosion due to puncture of refrigerant tubing; follow handling instructions carefully. Flammable refrigerant used.
   CAUTION - Keep clear of obstruction all ventilation openings in the appliance enclosure or in the structure for building-in.
   CAUTION -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 -flammable refrigerant used! When handing, moving and use of the refrigerator, make sure to avoid either damaging the refrigerant tubing, or increasing the risk of a leak.

IV. USAGE NOTICE .

1. Start up: Before operating your unit, please be sure that all casters are properly installed. The unit must be level after it is positioned in its permanent location. This ensures proper door alignment on all cabinet, adequate condensate water drainage, and proper overall refrigeration system operation. Electrical power to the unit is generated immediately after plugging the power cord into an adequate outlet.

2. Set Temperature: Push the SET key for more than 2 seconds to change the Set point value; The value of the set point will be displayed and the "°C" or "°F" LED starts blinking;To change the Set value push the o or n arrows within 10s.To memorise the new set point value push the SET key again or wait 10s.

3. Temperature controller: After turning on for the delay time(2 minute), the compressor starts when cold room temperature ≥set temperature + hysteresis, and will be off when cold room temperature ≤set temperature. To protect the compressor, it can re-start unless the time when the compressor stops every time is longer than the delay time.(2 minute)

CAUTION—Setting the temperature control to the coldest setting may cause the eventually result in a warmer cabinet temperature.

4.Transportation: Do not be hard collided or fiercely vibrated when in transportation; it is not larger than 45°for the inclination of the chest. When it is on working, do not re-move

frequently.

5.Storage: Do not flap foods or cans into the cabinet, or it will damage the glass sides/door. In order to avoid bad smell or taste, keep space between each food and do not store the foods too long time.

6.Maintenance: Please clean the cabinet with soft clothes timely. Before cleaning, **MUST pull out the power plug.** When the cabinet will not be used for a long time, disconnect the power cord then clean it. Please examine the wiring circuit before reusing it.

Restart: Please wait 5 minutes to restart the refrigerator after the plug pulled down or short sudden-cut, or it will reduce the sever life of the compressor. To save energy, the refrigerator door should not be frequently opened or left open for a long time.

7.Defrosting: Timing of defrosting: The electronic control panel is preset to automatically execute four defrosting cycles within twenty four hours. Its timer will reset to the time or the initial first start-up. In order to modify the start time for the defrost cycle to the desired time, it is sufficient to follow these directions, press the defrosting button for six seconds, the unit will start defrosting at the time, and another cycle will follow six hours later.

Manual defrosting: Press the button on the top right of the display of the electronic thermostat for six seconds. The defrosting will start only if the sensor reveals a temperature that is inferior to a pre-set value. In that phase, the defrosting pilot light and defrost LED switch on. Refrigerator coils are defrosted by compressor stopping. Freezer coils are defrosted electrically.

Caution: Do not remove ice with a sharp metal instrument.

V. REGULAR MAINTENANCE

Cleaning the condenser coil

For efficient operation, it is important that the condenser surface be kept free of dust, dirt, and lint. Dukers recommends cleaning the condenser coil and fins at least once per month. clean with a commercial condenser coil cleaner, available from any kitchen equipment retailer. Brush the condenser fins from top to bottom, not side to side. After cleaning, straighten any bent condenser fins with a fin comb.

Cleaning the fan blades and motor

If necessary, clean the fan blades and motor with a soft cloth. If it is necessary to wash the fan blades, cover the fan motor to prevent moisture damage.

Cleaning the interior of unit

When cleaning the cabinet interior, use a solvent of warm water and mild soap. Do not use steel wool, caustic soap, abrasive cleaners, or bleach that may damage the stainless steel surface.

Cleaning the back panel:

1.Take down the setscrews of back panel one by one manually, and then take down the back panel.

2.Clean the backboard behind the panel by scour, pay attention to keep the safety of the heat preservation material covered by the cupreous tube, clean the parts around the motherboard holes, clean the back of the panel, dry the cleaning parts by soft cloth.

3.Fix the back panel on the cabinet after clean work.

Wash door gaskets on a regular basis, preferably weekly. Simply remove door gasket from the frame of the door, soak in warm water and soap for thirty (30) minutes, dry with soft cloth, and replace. Check door gaskets for proper seal after they are replaced.

WARNING—Disconnect power cord before cleaning any parts of the unit.

Replace the fluorescent lamp(if it exists)

If replacement of the fluorescent lamp is required, disconnect the appliance from the power supply, take the lampholder away from the socket, replace with a new and correct fluorescent lamp which specification is marked on the it from the plastic pipe. refit the fluorescent lamp with the plastic pipe and lampholder into the socket. then connect up to power supply.

VI: TROUBLESHOOTING GUIDE

When you found that the refrigerator appears abnormally, please examine it according to the following form.

troubles		reasons	How to deal with
No indicator light	Unit on work	Not connectg with the power	Connecting the plug
		Plug and outlet contacting failure	Repairing or change
		Fail input of control circuit	Checking and repairing
	Unit off	Base of light missing out of welding	Welding the base
		Indicator light burning out	Replacing the light
Compressor running failure		Low power	Equipping with a manostat
		Power failure	Checking and replacing
		Temperature controller failure	replacing
		Heating protector burning out	replacing
		Starter failure	replacing
		Compressor electricity burning out	replacing
		Compressor mobile part being blocked	replacing
Ceaselessness of compressor		Misplacement of the probe of the temperature controller	Adjusting the place and fixing it
		Damage of controller	replacing
		Insufficiency or leakage of refrigerant	Find the leaking spot，welding and adding refrigerant
		Heavy frosting of evaporator	Defrosting with the compressor stop
		Circulation failure for entrance of uncongealed liquid	Vacuumizing the system and adding refrigerant
		Blocking of refrigeration pipe	Replacing the filter and adding refrigerant

	Failure of condenser fan	Replacing the fan and checking the circuit
	Low efficiency or no exhaust of compressor	replacing
	Opening the door too often	Reducing the frequency of opening door
	Much fat and dirt in condenser and filter	Cleaning the condenser and filter
	bad ventilation result of Too large amount of goods	Reducing the storage and redistributing the interior space
	Heat leakage of door seal	Maintenance of the door seal
Ceaselessness of compressor	High ambient temperature	Improving the ventilation and lowing the ambient temperature
	Low presetting temperature	resetting
Unit noisy	No even placement of the showcase	Trying another placement
	impacting of capillary , other pipeline and accessories for no firm fitting	Clean up the pipe
	Damage of fan	Maintenance and checking
	Condenser fan blocked	Cleaning the fan
	Bad connecting with spring of compressor	Replacing the compressor
	Bolt losing of compressor, fan and condenser	Tightening the bolt
No interior light	Damage or being off of switch	Turning on or maintenance or replacing
	Light burning out	Replacing
	Damage of ballast	Replacing
	Circuit missing out	Checking circuit

Please ask qualified personnel to service.

ATTENTION!

The following phenomenon is normal, not trouble:

- A light sound of water flow in the cabinet.
- Heat from the compressor or condenser.
- If the ambient humidity is high, it is easy to cause water drops outside the doors, please sweep them off with towel in time.

Technical parameters :

Model	Temp.	Climatic Category:	Refrigerant	Net Weight kg/lb	Rate Current A	Input Power W	Energy Consumption kWh/24h
NCB-036-SS	34~47℉	4/5	R290				
NCB-048-SS	34~47℉	4/5	R290				
NCB-052-SS	34~47℉	4/5	R290				
NCB-060-SS	34~47℉	4/5	R290				
NCB-072-SS	34~47℉	4/5	R290				

CIRCUIT DIAGRAM