UPRIGHT DISPLAY COOLER INSTRUCTION MANUAL







1 Preface

It is a great honor that you choose our drink cabinet product. This manual is provided specifically for your anytime needs of installation, operation and maintenance as an important technical material.

Before you start to use the product, please read the manual carefully to fully prove the product's features. Within the warranty period, the produce should be repaired, if necessary, by experienced professionals in the field of refrigeration or electrics, who provide the after-service authorized by our specific service stations. See the warranty card for more about maintenance.

To continually improve the product performance, we retain the right to modify it at any time without further notice.

2 Purposes and features

This product is a type of chilling cabinet, which is our new development of refrigeration combining the advanced technologies from both home and abroad on the basis of food cabinet standards and corporate criteria. Its main kits and key components are all good brands, either domestically or overseas, with stable quality and reliable performance. Featuring Western-style and streamlined design, the product integrates the actual market demand in structural design, which better cater to the ergonomics requirements of consumers. This series applies mainly to displaying and selling of drinks, dairy products, vegetables and fruits.

3. Transporting, loading and offloading and accepting

- 3.1 As some delicate articles such as glass and mirror are contained in the product and its package, please handle it gently and properly during transporting, conveying and transferring.
- 3.2 In accepting the goods, please carefully check everything according to the attached packing list to figure out damages, if any. In case of any damage detected, please contact us through phone or fax immediately, and we will respond to the situation as soon as possible.
- 3.3 In case of any damage or loss, please identify the situation in the packing list and have the consigner acknowledge it with signature before returning it to us.

4. Installation

- 4.1 The product should be place on a solid and flat floor with no gradient.
- 4.2 The product is recommended to work with under 28°C ambient temperature and less than 55% relative humidity, where direct sunshine and draught can be avoided. Additionally, disturbing air devices such as fan or air conditioner vent should be appear from its top or nearby.
- 4.3 Unobstructed ventilation should be ensured for condensing unit with ample room for repairing.
- 4.4 The melting water can be directed into the sewer near the product, if any, or otherwise evaporated through electric heating.

5. Normal operation

- 5.1 Full-automation. Fully consider the local seasonal conditions within a year and the surrounding environment are sufficiently considered during the setting of control modules, to ensure the optimal operation of the whole full-automatic product.
- 5.2 Normal cooling. Set the temperature controller properly according to customers' needs to achieve both energy-saving and normal cooling. See the Appendix: Instruction of CAREL Temperature Controller for details.
- 5.3 Normal melting. Set the timer properly for melting time and interval according to the ambient temperature and humidity, with over two melting periods for verification. See the Appendix: Instruction of CAREL Temperature Controller for details.
- 5.4 Have the customer sign Debugging Record and Installation Acceptance Report before finishing the consignment.
- 5.5 During normal operation, the storage should not be placed beyond the shelf or block the return air from the air curtain.

6. Maintenance and notes

- 6.1 Cabinet cleaning. The product should be cleaned once a week with power supply disconnected. In cleaning, please use mild rinsing water or non-corrosive cleanser essence. Do not wash it directly with water faucet.
- 6.2 De-dusting for condenser. The condenser should be cleaned every three months with power supply disconnected. To clean the condenser, remove the left panel, and remove the dust on the cooling fin of the condenser with wire brush or high pressure air gun.
- 6.3 Leaking check. Observe all connectors and welding joints for oil stain, which indicates a must for patching measures or call for professionals.
 - 6.4 Ensure the smoothness of drainpipes.
- 6.5 Frequently observe the operation of the product. In case of any abnormal noise, smell or smog, cut off the power supply immediately and call for professionals for help. Do not restart the product before trouble is cleared.
 - 6.6 We will not be responsible for any accident incurred by failures of following the notices.

7. Frequent troubleshooting

Number	Troubles	Causes	Solutions
1	Strange noise under the bottom shelf	Fan blade broken.	Power off and fix the blade.
2	Non-refrigerating in spite of normal operation	 Unit off. Melting process. Refrigerant leaking Unit failure. 	 Power on. Stop melting. Patch the leak and refill refrigerant. Call for professionals.

		1. Evaporator blocked by frost.	1. Increase melting frequency.
	Weak air from air curtain,	2. Inside fan damaged.	2. Replace the fan.
3	and higher cabinet	3.Too low set point of	3. Adjust the set point.
	temperature	temperature controller.	4. Remove the storage.
	temperature	4.Vent blocked by storage	4. Nemove the storage.
		, -	1 Defill the refrigerent
4		1. Insufficient refrigerant.	1.Refill the refrigerant.
	Normal air curtain, but higher cabinet temperature	2.Too high set point of	2.Adjust the set point for the
		temperature controllers.	temperature controller.
		3.Expansion value fails.	3.Repair or replace the expansion
		4.Thewind curtain disturbed by	valve.
		strong air flow.	4. Removing the disturbing factors.
		5. Ambient temperature or	5. Improve the conditions.
		humidity beyond standards.	
		1.Heating pipe for melting	1. Replace the heating pipe.
5	Melting water overflown	water damaged	2.Replace the water-level
		2. Water-level controller	controller.
		failure.	3. Impove the conditions.
		3. Ambient temperature or	
		humidity beyond standards.	
		1.Condenser contaminated.	1. Clean the condenser.
6		2. Poor venting of the unit.	2. Improve the venting conditions.
		3.Heatprotection of	3. Replace the heat protection.
	Normal air curtain, but	compressor failure.	4. Replace the drying filter.
	periodical fluctuation of	4.Expansion valve blocked by	5. Replace the expansion valve.
	cabinet temperature	ice	6. Replace the temperature
		5. Expansion valve failure.	controller.
		6. Temperature controller	
		failure.	

8. Warning

a) DANGER — RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. DO NOT USEMECHANICAL DEVICES TO DEFROST REFRIGERATOR. DO NOT PUNCTURE REFRIGERANT TUBING.

and

and

DANGER – RISQUE DE FEU OU D'EXPLOSION. LE FRIGORIGÈNE EST INFLAMMABLE. NE PAS UTILISERD'APPAREILS MÉCANIQUES POUR DÉGIVRER LE RÉFRIGÉRATEUR. NE PAS PERFORER LA TUBULURECONTENANT LE FRIGORIGÈNE.

b) DANGER – RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. TO BE REPAIRED ONLY BYTRAINED SERVICE PERSONNEL. DO NOT PUNCTURE REFRIGERANT TUBING.

DANGER – RISQUE DE FEU OU D'EXPLOSION. LE FRIGORIGÈNE EST INFLAMMABLE. CONFIER LESRÉPARATIONS À UN TECHNICIEN SPÉCIALISÉ. NE PAS PERFORER LA TUBULURE CONTENANT LEFRIGORIGÈNE.

c) CAUTION — RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. CONSULT REPAIRMANUAL/OWNER'S GUIDE BEFORE ATTEMPTING TO SERVICE THIS PRODUCT. ALL SAFETYPRECAUTIONS MUST BE FOLLOWED.

and

ATTENTION – RISQUE DE FEU OU D'EXPLOSION. LE FRIGORIGÈNE EST INFLAMMABLE. CONSULTER LEMANUEL DU PROPRIÉTAIRE/GUIDE DE RÉPARATION AVANT DE TENTER UNE RÉPARATION. TOUTESLES MESURES DE SÉCURITÉ DOIVENT ÊTRE RESPECTÉES.

d) CAUTION — RISK OF FIRE OR EXPLOSION. DISPOSE OF PROPERLY IN ACCORDANCE WITH FEDERAL ORLOCAL REGULATIONS. FLAMMABLE REFRIGERANT USED.

ATTENTION – RISQUE DE FEU OU D'EXPLOSION. ÉLIMINER CONFORMÉMENT AUX RÈGLEMENTSFÉDÉRAUX OU LOCAUX. LE FRIGORIGÈNE EST INFLAMMABLE.

e) CAUTION — RISK OF FIRE OR EXPLOSION DUE TO PUNCTURE OF REFRIGERANT TUBING; FOLLOWHANDLING INSTRUCTIONS CAREFULLY. FLAMMABLE REFRIGERANT USED.

ATTENTION – RISQUE DE FEU OU D'EXPLOSION SI LA TUBULURE CONTENANT LE FRIGORIGÈNE ESTPERFORÉE ; SUIVRE LES INSTRUCTIONS DE MANUTENTION AVEC SOIN. LE FRIGORIGÈNE ESTINFLAMMABLE.

- 2.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.
- 3.Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- 4.Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer
- 5. Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.

9. Carel Digital Temperature Controller:

- 9.1 Press "set" buttom:
- 9.1.1 1s display/sets the set point
- 9.1.2 more than 3s access the parameter setting menu (enter password 22)
- 9.1.3 mutes the audible alarm(buzzer)
- 9.2 rapid selection of probe displayed for 1s displays firmware version

Display"rd" set point differential "8"

Display "co" the compressor starts over time "5"

Display"di" interval between six defrosts"4"

Display"C2" the Min.compressor off time "5"

Display"/5", \mathbb{C}/\mathbb{F} (0= \mathbb{C} ; 1= \mathbb{F}) "1"

9.3 Press "set" buttom, more than 3s, LED screen setting 2 times.