

USER MANUAL

OPEN AIR MERCHANDISER





MODEL: SOC-51-B, SOC-61-B, SOC-76-B, SOC-51-W, SOC-61-W, SOC-76-W, SOC-76-220-B, SOC-76-220-W



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Safety and sign

Safety: display showcase should install on the place where coincide with operation manual.

Authorization: all works to my company display showcase and cooling system should be operated by qualify authorized skilled staff

Safe operation: In order to avoid danger maybe happen, before operation all workers must read carefully such operation manual

Safety sign: safety sign has been special point out, in order to avoid danger sign must be obey wholly

attention!

carefully!

caution!

Danger!

Prevent possible danger to equipment occur

Prevent possible danger to person occur

Prevent serious danger to person occur

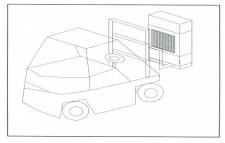
Prevent fatal accident to person occur

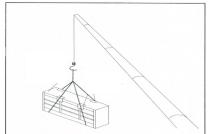
Ready item for transportation and opening package

There are glass or other easy smash goods in equipment and package, please be carefully in transporting, handling or moving equipment.

When receive equipment, please check and examine all products as per packing list listed, only confirming all products are good without damage or missing can accept products. If there is visible destroy or damage, please remark on the transportation documents or receipt and confirmed signature by transportation agent, unless transportation agent can reject claims for compensation. At the same time please contact with local staff, our local staff will provide necessary examination paper for claims for compensation.

Unload from truck, double fork is necessary and more attention for safety, if unload by crane, φ10mm or above tightwire or metal strip should bind to pointed place, slowly unload to ground.





When moving equipment please move wooden pallet under equipment bottom, do not carry or seize equipment parts avoid to damage; Meanwhile equipment should be delivery balanced, no slant, no fell flat, no upset equipment.

There are one set of operation manual, one eligible certificate, one contract products packing list, one set of assembly packing list (if there is no assembly needed, there is no such packing list), please check each listed item.

To Split model of display showcase, cabinet, unit and assembly installation should be made by our company authorized staff, please do not open package avoid damage to cabinet and accessory.

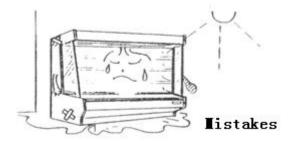
Please slowly and softly operation when opening package avoid damage to display showcase and accessory; remove display package please do not confuse or miss parts and accessory within package, please install directly in place

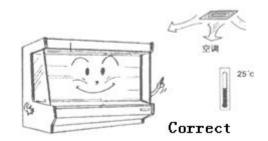
If damage or destroy only found after opening package, claim must be made for loss. Once find damage written application for transportation agent to check, examination must be made within 15 days, keep all package for examination too.

Notice in operation

1. Emplace

Display showcase must be used indoor, can't be used outdoor, should be used in supermarket, restaurant, shop where air-conditioner working well, in where temperature keep 25°C or below, humidity 60%,environment wind speed≤0.2m/S and without heat fountainhead effect. when temperature, humidity or wind speed in high condition freezing efficiency of display showcase couldn't meet to use requirement.





Idiographic use requirement:

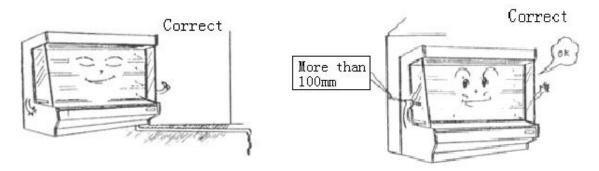
In using voltage should keep within rated voltage ±10%, if voltage unstable please select safe and reliable regulator

Power supply of display showcase and cooling unit where should add display showcase appropriative electricity creepage safeguard

Cooling unit environment temperature should below 40°C, environment cleanness, no dirty, no sundries, unit in room should in good ventilation; if exposure in air there should add anti-rain, anti-sun sail, wire netting protector.

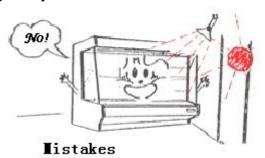
Display showcase must be installed on level off ground, notice installation even, guarantee drainage swimmingly

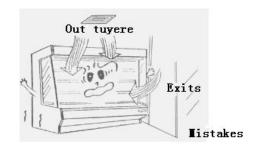
When place against wall, there must be 110mm gap between cabinet backboard and wall, avoid cabinet backboard dew



Avoid install display cabinet on the place sun, light point-blank or near by heat fountainhead

Avoid install cabinet near by pass in and out of wind, exit of ventilation, fan or door, window turn or off frequently, avoid air curtain of display showcase effected negatively





2. Installation

notice for moving display showcase, please refer to above <ready item for transportation and opening package> part.

Unload ground bolt, down lift cabinet, set up ground bolt to branch leg, place display showcase to position selected

Take out parts within inner display showcase, check as per packing list if all parts are there

3. Cabinet make up

Stick sponge adhesive tape to cabinet make up panel, equably and continuous spread airproof glue on the outside of sponge adhesive tape

Move two cabinet which want to make up as near as possible, adjust ground bolt and cabinet, line the front and back, top and bottom

Fit localizer on the anchor point, close up two cabinets

Joint cabinet and fix them by bolt and nut

Fit accessories of each display showcase, please be noticed that each accessory (such as point, close arm, label and so on) should be same position and incline angle

According to reserved drainage place, fit each showcase drain elbow, ternate tie-in and so on, please be careful spread reasonable adhesive glue on every joint part to guarantee no water leakage

Dispose, install and connect refrigeration pipeline and electric control wiring according to project design

After air tight test pressure confirmed, exhaust air then impregnate freon, then examine if electric error or not

Fit decorative panel (including bottom panel, side panel, top panel), joint with decorative panel

Check every accessory, adjust and modulate every part to appropriate condition

Examine fixed implement, refrigeration parts and accessory if there is missing, error

Clean inner and outer of cabinet, accessory with alcohol and detergent

Deliver operation manual and usual spare parts to user and explain using methods to user, user signature on the delivery paper, installation finish

4. Use



Interspace should be reserved in display showcase when put foods in order that cooling air circulation and foods deposited

Foods should not exceed or barrier draught back entry to avoid cooling air no circulation

Do not put foods on the draught back entry in showcase, unless temperature couldn't meet to requirement in showcase

Caution: do not put frozen foods or cold foods to wrong display showcase

In order to lessen unnecessary foods waste and energy loss, foods should have reasonable package in showcase at same time please lessen showcase, unless out foods frequency as possible

5. Using safety concerned

Connect power to run the display showcase, put into showing products only after

temperature in showcase decline to rated range (refrigeration: 5° C ~10 $^{\circ}$ C, freeze: 5° C ~10 $^{\circ}$ C)

Individual three-core single socket fitted with reliable ground wire and suitable air switch with electricity creepage safeguard, ground wire could not select neutral conductor of network or water pipe or caliduct

Do not keep flammable, explosive, volatile gas or liquid in showcase

Before clean cabinet general power supply must be cut off, only no power confirmation can clean and clear cabinet

Soft cloth dipped with neutral uncorrosive scour wipe cabinet and parts, then clean with dry cloth. Do not use acidic, alkaline or acidic, alkaline scour to clean cabinet

Take or put into foods softly, do not throw or chuck foods avoid to damage cabinet and accessory

Cut off power please connect power again after 5 minutes avoid to damage electric parts in display showcase

Periodic check evaporator defrost in showcase, if defrost not so clean please contact skilled staff to resolve

For the sake of energy consumption please pull out night blind when market Closing

Pull out or close night blind slowly and softly till to night blind into position avoid to damage night blind and accessory

Please arrange staff examine display showcase regularly, notice temperature transformation and record temperature digit; if find any problem please contact manufacturer or local service people without delay, settle trouble to guarantee usual use display showcase, avoid unnecessary loss for you.



In using do not take out foods by wet hand or stand by showcase long time avoid frostbite person

Maintenance

1. display showcase cabinet maintenance

frequenc	parts	Contents	remarkable issue
Everyda y discover clean in time	appearance parts	1.Water soiled, besmirch wipe 2.Rust vestige clean	1.Clean with water, with neutral scour if necessary 2. Do not use corrosive solvent 3. Pay more attention to clean merchandise containing salt
	shelves and panels	1.Water soiled, besmirch wipe 2.Merchandise trifling, dunghill clear	every hole and corner should clean avoid bacterial multiply
	showcase accessory and food rack net	1.soiled, besmirch wipe 2.Partition net, price code clean	clean ice, dunghill in net hole, crack
once/mo nth	cabinet and all accessory	Water soiled, besmirch wipe	notice clean and clear outside and inside everywhere
	viewfinder	Water soiled, besmirch, dust wipe	use neutral scour notice glass edges and corners
	lighting	1.dust, besmirch wipe 2. moisture wipe	clean in time moisture in fluorescent lamp avoid electric short circuit burn
	launch exit, evaporator shelves, evaporator room	dunghill, sundries clean and clear	do not pour sundries into drainage pipeline avoid to block channel
	compressor room, refrigeration unit	refer to evaporator clean	notice must cut off power supply then operate

	cabinet place with draught back entry	1.Merchandise trifling, dunghill clear 2.Deposited rchandise clean 3.Drainage pipe exit block clean 4.Swash with clean water	remove relevant spare parts, such as guide glass, side glass, low shelves and so on. Pay attention to keen-edged steel edges and corners, bolt neb and so on, beware scratch
Ones/2	evaporate fan motor	appendiculate wipe and clear	Notice: prevent water into fan motor
Once/3 months	evaporate room	1.Merchandise trifling, dunghill clear 2.Deposited merchandise clean	Notice: keen edges and corners of steel, ice and frost on evaporator couldn't knocked and root out by tools
	compressor room, compressor unit	1.Dust in compressor room clean 2.Condensor dust clean 3.Refrigeration system examination 4.Joint wire of electric parts examination	Notice: prevent water into electric components, avoid pipeline and electric wiring destroy

2. refrigeration system maintenance

Condenser maintenance: condenser is main heat disperse components in refrigeration system, which heat disperse aluminum sheet easily cling dust, poor situation decline compressor cooling capacity temperature in cabinet rise; severity situation can burn compressor lead to magnitude loss

Before clean chief power supply must be cut off, guarantee there is no power supply can operate start

Swash condenser from up to down with water, swash uniformly to each wing of condenser

When oil besmirch or dust badly, neutral scour or special aluminum besmirch scour should be added to swash

Caution: prevent water into fan motor, compressor and such electric components

Finish evaporator rinse, puff wash condenser with high pressure nitrogen or compressed air, puff out water and filth between wing

Caution: do not puff to the direction of fan motor, compressor

Check condenser fan motor, compressor and such electric components, all components in good condition can power supply and start machine

3.compressor and electric implement maintenance

Check compressor bottom foundation is fixed or not, lessen crowded or shift Check compressor or unit oil mirror, oil level should between $1/2 \sim 2/3$ on oil mirror (shut down condition), between $1/4 \sim 2/3$ (running condition)

Check system pressure controller, temperature thermostat, defrost controller, oil pressure controller, cooling spray system and three way cockcrows cock and such components condition

Check lighting components, temperature display instrument, electromagnetic valve, heater elements working condition

Check electric wiring fasten or not, every joint point insulation and airproof

Check power supply each phase voltage, phase sequence meet to demand, relevant phase voltage imbalance $\leq 3\%$, compressor, condensor fan motor supply phase voltage and phase sequence right

Observe if unconventionality noise or phenomena when system working caution: power supply must be cut off when check electric components, or check by authorized staff

drainpipe maintenance

Check cabinet inside and outside drain situation, guarantee outfall no ice or dirty block

Check drainpipe, guarantee drainpipe slope lead to ground leak, gradient $1/50\sim1/200$



Trouble Sh	nooting		
trouble	possible trouble parts	reason	settlement
	power supply	 switch off fuse off voltage too lower 	 turn on switch check and renew fuse check power supply and wiring pathway
	electric component	circuit disconnection or touch badness	Check circuit, connect well
compressor no start	controller component or protector	 thermostat work but electricity off high pressure work no well low pressure work no well electromagnetic valve close start relay no work operator relay work no well over loading protector disconnection 	 wait for thermostat work wait for action point close, pressure recovery then turns on start button wait for action point close, pressure recovery check electromagnetic valve if damaged then renew check, repair or renew check, repair or renew wait for work, or check or repair or renew
	refrigerant	refrigerant leakage	check and block leakage, repair then fill in refrigerant
	compressor	compressor inner mechanism trouble compressor inner motor burn	repair and renew check out reason and renew
	power supply	fuse broken	check capacity and renew
start then soon stop, protector work	over load protector	 over load protector setting value too low electricity exceeds voltage too low or three phases imbalance condensation no well or condensation pressure too high evaporate pressure too high 	 modify setting value check reason and modify check reason and modify check reason and modify check reason and modify

	safety protector	high pressure switch work	 mix air in system condenser dirty block or environmenta I temperature too high refrigerant exceeds setting value too high 	 eliminatel no refrigeration gas clean condenser or reinforce ventilation reduce refrigerant filling quantity modify setting value
		low pressure switch work	 5. refrigerant leakage or filling less quantity 6. expand valve start no well 7. setting value too high 	 repair leakage point, add refrigerant filling adjust start degree or renew modify setting value
	thermostat	thermostat	setting improper	modify setting value
	compressor over hot	 three phase s refriger motor c pressur inhalati temper mix no compre 	ature too high refrigeration gas	 check power supply, guarantee within rated voltage ±10% check switch touch point and fuse fill refrigerant check condensation, ventilation adjust expand valve or buildup inhalation pipe heat preservation eliminate no refrigeration gas reinforce ventilation, debase environment temperature

unconventio	liquid condensatio n	stop running, liquid refrigerant keep in crooked axis cabinet, start then lubricant oil and liquid refrigerant condensed refrigerant filling too much expand valve open exceed, liquid flow backwards	1. augment oil Tunk, reduce liquid refrigerant flow to compressor, when long time stop machine, please run crooked axis cabinet heat element 2. reduce refrigerant 3. adjust expand valve opening degree
running	refrigeration pipeline unit	pipeline tremble installation bolt loosens and	fasten pipeline fasten bolt, renew shakiness
	foundation	tremble	structure
	compressor	 motor magnetic noise link, bearing abrasion mix with impurity inspiration, exhaust valve disrepair. 	 check reason and renew check reason and renew check reason and renew check reason and renew
refrigeration efficiency no well	exhaust pressure too high	 mix no refrigeration gas refrigerant filling too much condenser dirty block sun-light directly compressor ventilation no well 	 eliminate no refrigeration gas reduce refrigerant filling clean condenser, boost up ventilation avoid sun-light directly boost up ventilation, avoid air recycle
	exhaust pressure too low	 refrigerant not enough environment temperature too low expand valve opening exceed compressor condensation capacity letdown 	 add refrigerant filling reduce condenser ventilation adjust expand valve opening degree check compressor inspiration and exhaust valve leakage
	inspiration pressure too high	load exceed expand valve opening degree exceed compressor compress capacity letdown	 check load capacity and adjust check thermostat connection; adjust expand valve opening check inspiration and exhaust valve of

		compressor leakage
inspiration pressure too low	 load capacity lessen evaporator frost too much expand valve block or adjust no well pipeline leakage or draught back pipe block 	