

INSTRUCTION MANUAL

DEVANTI

BACK BAR COOLER

CONTENTS

- SAFETY PRECAUTIONS 1 ~ 3
- HOW TO USE 4 ~ 5
- CLEANING 5
- IN CASE OF THE FOLLOWING 6
- BEFORE REQUESTING SERVICE 7

Please read these instructions completely before operating the units.

SAFETY PRECAUTIONS

- To ensure proper use, please thoroughly study these SAFETY PRECAUTIONS before operating the Unit.
- The purpose of the safety precautions in this manual is to ensure safe and correct use of the unit to minimize risks that could cause serious damage and injury to you or other persons. The safety precautions are divided into WARNINGS and CAUTIONS. Cases where improper handling of the unit could lead to death or serious injury are listed under the "⚠️WARNING" heading. However, the cases listed under the "⚠️CAUTION" heading could also lead to serious results. To ensure the safety, adhere strictly to both types of safety precautions.

⚠️ WARNING Improper handling of the unit could lead to death or serious injury.

⚠️ CAUTION Improper handling of the unit could lead to serious results depending on the circumstances.

- Text set off by the exclamation mark **!** contains information that should be strictly adhered to.
- After reading the instruction manual, store it in an easily accessible place where the user(s) of this product can easily find it.

◆ PRECAUTIONS FOR INSTALLATION

⚠️ WARNING



Installation should be performed only by the dealer or a qualified expert. Attempting to install the unit yourself could result in water leakage, refrigerant leakage, electrical shock, or fire.

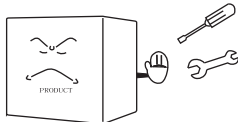
◆ PRECAUTIONS FOR USE

⚠️ WARNING



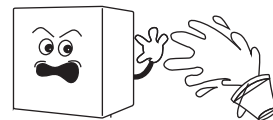
DONT TAMPER

All repairs, disassembly and modifications should be performed only by qualified technicians. Attempting to perform these yourself could result in a fire, malfunction, and injury.



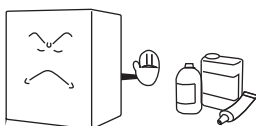
ELECTRICAL SHOCK HAZARDS

Never splash water directly onto the product or wash with water as short-circuit and electrical leakage could result.



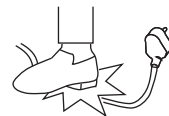
DANGER OF EXPLOSION

Never put flammable or volatile substances into the unit as explosion and fire could result.



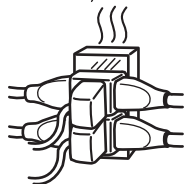
PROHIBITED

Do not damage, modify, excessively bend, strain, twist or bundle up the power cord. Also, placing heavy objects the power cord or squeezing it in a tight place could damage it, possibly resulting in electrical shock or fire.



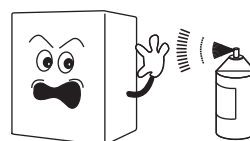
PROHIBITED

Use a dedicated wall outlet. Do not use extension cords or convenience receptacles as this could result in electrical shock, overheating and a fire.



FLAMMABLE

Never use flammable spray cans or leave flammable substances near the unit. Sparks from electrical switches could result in explosion and fire.

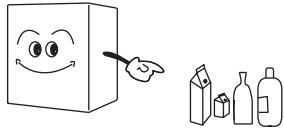


SAFETY PRECAUTIONS

⚠ WARNING



The cooler is intended for storage and display of beer and beverages for sale. Do not use for other purpose than the intended as this could adversely affect items placed in the unit.

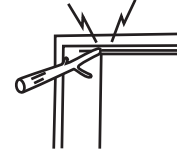


Beer, beverages



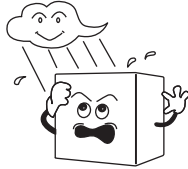
ROTATING DEVICE

Never attempt to insert fingers, sticks, etc. into the cold air suction outlet. A circulation fan is rotating at high speed inside the outlet. Injury, electrical shock and improper operation could result.



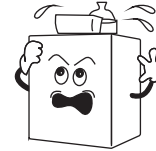
PROHIBITED

For indoor use only. Using the unit in a location exposed to rain could result in electrical leakage and electrical shock.

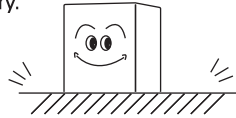


PROHIBITED

Never place heavy objects or items containing water on top of the unit. Objects could fall down and cause injury and spilled water could deteriorate the insulation of electrical components and result in electrical leakage.

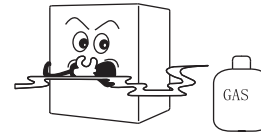


Install the unit in a location where the floor is sturdy enough to support the load of the unit. If the floor is not sturdy enough or installation is incorrectly performed, the unit could tip over and falling shelves and products could cause personal injury.



CAUTION AGAINST EXPLOSION

If you find gas leakage, please don't touch the chest freezer, and close gas and open the door for ventilation. Gas leakage cause explosion, fire, and fire injury.



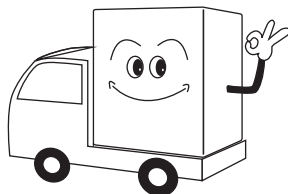
Store the unit in a location where it is not exposed to rain. Using a unit that has been exposed to rain could result in electrical leakage and electrical shock.



Away from hot air sources
Cooling performance is reduced if the unit is placed near heat sources such as hot plates and stoves and if it is exposed to direct sunlight.



Leave disassembly and disposal of the unit to qualified experts.



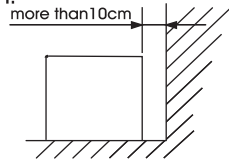
Should the unit need temporary storage, make sure not to store the unit in a location where children play and take precautions so that the door cannot be completely closed. This will minimize the risk that a child becomes trapped inside the compartment.

SAFETY PRECAUTIONS

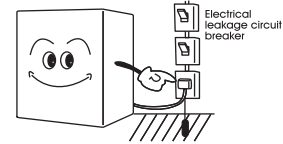
⚠️ WARNING

WELL VENTILATED PLACE

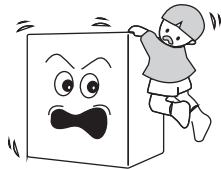
Please make more than 10cm space between Chest freezer and wall. If there are no space, cooling capacity can drop down.



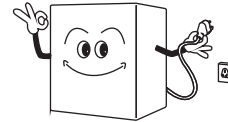
If installation in a damp location is unavoidable, also install an electrical leakage circuit breaker. If no electrical leakage circuit breaker is installed, electrical shock could result.



Never hang from the door or climb onto the unit. The unit could tip over or fall and cause material damage or injury.



Disconnect the power cord plug from the wall outlet before moving the unit and make sure that the power cord is not damaged during transport. A damaged power cord could result in electrical shock and/or fire.



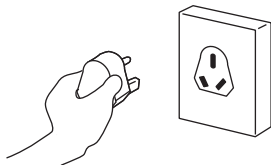
Grasp the handle when closing the door. Holding at other positions could result in pinched fingers and injury.



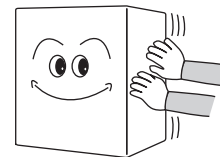
Do not push hand against or apply excessive force to glass surfaces as the glass could break and cause injury.



When disconnecting the power cord plug from the wall outlet, hold at the plug main body close to the outlet. Pulling the cord could cause wire breakage, possible resulting in overheating and fire.



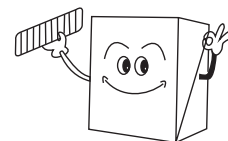
Make sure that the unit does not tip over or fall when it is moved. A falling unit could cause serious injury.



Do not throw items onto the shelves and do not place items totaling more than 30Kg on each shelf. The shelf could fall down, possibly cause injury.



Be sure attach and secure shelves correctly. An improperly attached shelf could fall down and cause injury.



HOW TO USE

BEFORE USE

- Remove shipping package, tape, etc, and leave doors open ventilation for a while.
- The unit is cleaned before shipment. However, clean the compartment interior once after delivery.
- Please insert power supply plug into the wall outlet ,single-phase to cat voltage.
- Allow the unit to operate for about 1 hour to cool the compartment before placing items in the cooler.

WAIT 5 MINUTES OR MORE BEFORE RE-STARTING

- Restarting the unit immediately after it has been turned off may cause fuses to blow and activate the circuit-breaker, the compressor may be overloaded, and/or other damage may occur.

TEMPERATURE ADJUSTMENT

- Thermostat was adjusted using temperature at factory. To adjust it, turn right could cause temperature in showcase down. To raise the temperature, turn it left. Excessive refrigeration will increase electricity consumption unnecessarily.

DRAIN TRAY

- Defrosting is performed automatically and drain water is collected in the drain tray.
- Water in the drain tray is evaporated automatically. In humidity, large amount of water in the drain tray, so please throw away drain water once a day.

EFFICIENT USE

Please follow the below instruction, you could save energy.

- To prevent cold air from escaping, open and close the door quickly and keep the door opened for as short a time as possible.
- Please install the unit in the place which is well-ventilated.

SHELF HEIGHT ADJUSTMENT

The shelf height can be adjusted.

Arrange the shelves in accordance with the dimensions of the items to be placed in the cooler.

HOW TO USE

PLACING ITEMS IN THE SHOWCASE

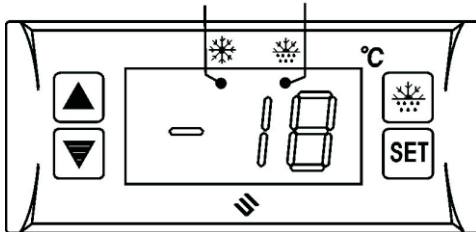
This showcase employs a forced circulation of cold air system. If circulation of cold air is obstructed, the items will not be adequately refrigerated. Pay attention to the following points:

- Do not let items obstruct the cold air inlet and suction outlet.
- Place items so that they do not protrude from the shelves. The gap between the shelves and the door is used for circulation of cold air.
- Place items evenly on all shelves.
- Please do not display goods on the bottom. Please put goods on the shelf.

THERMOSTAT INSTRUCTION

Model: SF-104S-2 Digital Temperature Controller

Refrigeration LED Defrost LED



Features of Function

Super-thin, water-proof, with outer high-voltage parts, easy & convenient to fix the compressor of one HP.
Temperature Display/ Temperature Control/ Evap. Fan Control/ Value Storing/ Self Testing

Specifications

1. Output of the outside sealed transformer: AC12V (one transformer matched with one temp. controller)
2. Temperature sensor: NTC, 2m(L)
3. Range of temperature displayed: $-45 \sim 150^{\circ}\text{C}$ Accuracy: $\pm 1^{\circ}\text{C}$
4. Range of set temperature: $-45 \sim 99^{\circ}\text{C}$ Factory default: 4°C
5. Dimension: 77(Length) \times 35(Width) \times 30(Depth)mm
Mounting hole dimension: 71(Length) \times 29(Width)mm
6. Temperature of the operating environment: $-10 \sim 60^{\circ}\text{C}$
Relative Humidity: 20%~90%(Non-condensing)
7. Relay output contact capacity:
Compressor : N.O. 30A/250VAC
Evap. Fan : N.O. 30A/250VAC

Front Panel Operation

1. Set temperature (compressor stop temperature) adjustment:
Press "SET" button, the set temperature is displayed.
Press " \blacktriangle " or " \blacktriangledown " button to modify and store the displayed value. Press "SET" button to exit the adjustment and display the cold room temperature.

HOW TO USE

If no more button is pressed within 6 seconds, the cold room temperature will be displayed.

(Set temperature adjustment range: parameter E1~E2)

2. Refrigeration LED: During refrigeration, the LED is on; When the cold room temp. is constant, the LED is off; During the delay start, the LED flashes.

3. Defrost LED: during defrosting, the LED is on; When the cold-room temp. is constant, the LED is off; During the delay start, the LED flashes.

4. Manually start / stop defrost: pressing "SET" & "Defrost" buttons simultaneously for 6 seconds can start or stop defrost.

5. Parameter setup

Press "SET" button and hold for 6 seconds to enter the parameter setup mode while E1 flashes.

Press again "SET" button to select sequentially from the parameters : E2,E3,E4,E5,E1.

Press "▲" or "▼" button, the value of parameter will be displayed and can be modified and stored.

If no more button is pressed within 6 seconds, it will return to normal operation mode.

Parameter	Function	Set range	Default
E1	Lower setpoint limit	-45°C ~ Set temp.	0°C
E2	Higher setpoint limit	Set temp. ~99°C	10°C
E3	Temp.hysteresis	1~20°C	6°C
E4	Comp.start delay time	0~10Min	0Min
E5	Comp.start delay time	-10~10°C	-1°C

6. The factory default resumption: press "▼" button and "▲" button simultaneously for 6 seconds, the display flashes, all parameters will be resumed as same as factory defaults. After 6 seconds, it returns to the normal operation.

7. Lock parameters:

In normal operating, press "▼" button and hold for 6 seconds to lock the parameters if "OFF" is displayed, or to unlock if "ON" is displayed. Parameter can be displayed only and can not be modified if locked. (the factory default is "ON")

Function details

1. Temperature Control

After turning on for the delay time, the compressor starts operating and evap.fan starts operation after 3 seconds delay time when cold-room temperature \geq (set temperature + hysteresis), and will be off when cold-room temperature \leq 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 (Parameter E4).

2. Timing defrosting by turning off the compressor

After operating for a defrost interval time (parameter F2), it enters turning-off state automatically, the compressor stops and evaporation fan operates; it enters automatic temperature control state after certain time (Parameter F1).

When parameter F4=1, the cold-room temperature is locked during defrosting, the temperature in defrosting state is displayed. After defrosting, the cold-room display will be resumed normal after displaying delay parameter F6 (or reach control temperature).

When the defrost interval time is set to "00", the function of automatic defrost will be cancelled.

press "SET" and "▼" button simultaneously and hold for 6 seconds to enter the parameter setup mode while F1 flashes. Press again "SET" button to select F2,F4,F6,F1. Press "▲" or "▼" button, the value of parameter will

be displayed and can be modified and stored.

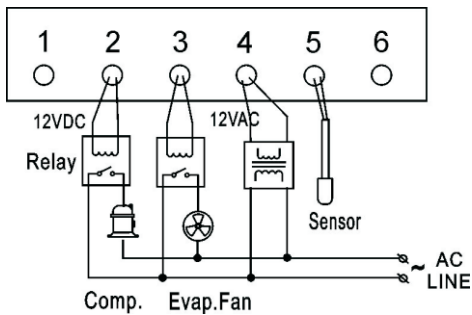
If no more button is pressed within 6 seconds, it will return to normal operation mode.

Parameter	Function	Set range	Default
F1	Max.Defrost duration	1~90Min	18Min
F2	Defrost interval time	0~24Hr	6Hr
F4	Display during defrost	0=Normal display 1=Last value before defrost	1
F6	Display compensation for cabinet temperature	1~30Min	10Min

3. Abnormal work mode

When room sensor is short-circuited or overheated (more than 150°C) "HH" is displayed ; When room sensor is open-circuited or temperature is too low (less than -45°C) "LL" is displayed. At that time the compressor enters timing operation mode automatically by the cycle of 45 minutes on and 15 minutes off.

4.Circuit Diagram



Notes for Installation

1. Sensor leads must be kept separately from main voltage wires in order to avoid high frequency noise induced. Separate the power supply of the loads from the power supply of the controller.
2. During electrifying, relay control wires should be connected correctly. When installation the sensor shall be placed with the head upward and the wire downward;
3. The temperature controller can not be installed in the area with water drops.

Accessories for the temperature controller

1. One attached transformer and two relays
2. One temperature sensor

IN CASE OF THE FOLLOWING

1 POWER FAILURE

Keep opening and closing of the door to a minimum.
Avoid placing new items in the cooler as this will raise the temperature inside the compartment.

2 WHEN NOT USED FOR A LONG PERIOD

Remove all items from the compartment and disconnect the power cord plug from the wall outlet.
Clean the compartment interior and wipe away all water.
To prevent mold formation and bad smell, leave the door open to dry the compartment completely.

3 TRANSPORTATION

Disconnect the power cord plug from the wall outlet.
When moving the cooler, make sure that the feet do not damage the power cord.
Do not let the feet hit against floor steps, thresholds, etc.

4 TEMPORARY STORAGE

Affix a piece of wood, etc. Between the door and main unit to prevent complete closing of the door.
Make sure not to store the unused cooler at a location where children play.
Should a child enter the compartment and the door is closed, the child may not be able to open the door from the inside.

INSTRUCTION MANUAL

BEFORE REQUESTING SERVICE

Please check the following items if you encounter problems with the unit. If the problem continues after taking the proper remedial actions, disconnect the power cord plug from the wall outlet.
Transfer the items stored in the cooler to a box or other container. Then contact the dealer from whom you purchased this unit and be ready to provide information as listed in "REQUIRED INFORMATION" below.



To prevent any electrical shock hazards, do not disconnect the power cord plug from the wall outlet with wet hands.

BEFORE REQUESTING SERVICE

<p>No refrigeration at all</p>	<ul style="list-style-type: none"> ● Is the power supply interrupted? ● Is the power cord plug disconnected from the wall outlet? ● Are the shop's power fuses blown and/or the circuit breaker activated?
<p>Inadequate refrigeration</p>	<ul style="list-style-type: none"> ● Is the temperature setting appropriate? ● Are items obstructing the cold air inlet and suction outlet? ● Are stored items packed too tight? ● Is the door open or is it opened and closed frequently? ● Is the condenser clogged?
<p>Excessive noise</p>	<ul style="list-style-type: none"> ● Are all feet in firm contact with the floor? ● Is the rear panel of the cooler contacting the wall or other objects? ● Are other objects in contact with the cooler?
<p>Condensation on cooler exterior</p>	<ul style="list-style-type: none"> ● Condensation may condense on the exterior and door during hot and humid days or depending on the place of installation. This occurs when the humidity is high and water particles in the air contact cold surfaces. This is normal. wipe away condensation with a dry cloth.

Showcase sometimes stop running when thermostat turns off.

INSTRUCTION MANUAL

REQUIRED INFORMATION

- | | |
|--|---|
| <p>① Nature of malfunction
(as accurately as possible)</p> | <p>④ Customer's name, address,
phone number</p> |
| <p>② Product number</p> | <p>⑤ Year and date of purchase</p> |
| <p>③ Serial number</p> | <p>⑥ Desired date for service visit</p> |
- } (inscribed on badge)