KOOL-IT

Installation and Operation Guide

KCD-36 & KCD-48



Thank you for purchasing this refrigerated Display Case. Before operating the equipment, read and familiarize yourself with the following operating and safety instructions. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE. Save the original box and packaging. Use this packaging to ship the equipment for repairs if needed.

Specifications

Model #	Description		Voltage	Amps	HP	Hz	Plug
KCD-36	Drop-in Case	W: 36"	120	3.4	1/5	60	NEMA 5-15P
KCD-48		W: 48"		4.2			

Safety Precautions

To safely operate this machine, read the following statements. This manual contains safety precautions, which are explained below. Please read carefully.

⚠ WARNING

Warning is used to indicate that there is a presence of a hazard that will or can cause severe personal injury or death

⚠ CAUTION

Caution is used to indicate the presence of a hazard that will or can cause minor or major personal injury if the caution is ignored.

NOTICE: Notice is used to note that the information is important but not hazard-related.

To reduce risk for injury or damage to the equipment:

• Use only grounded electrical outlets that matches the rating plates voltage.

• Have a qualified technician install the equipment in accordance with local codes and regulations.

• Use equipment in a flat and level position.

• Do not use an extension cord with this equipment. Do not plug this equipment into a power strip or
multi-outlet power cord.

• Unplug the equipment and turn it off before cleaning or moving.

• Do not use liquids or cleaning agents on the controls or outside of the equipment

• Do not clean the equipment with steel wool.

• Keep the equipment and power cord away from open flames, electric burners or excessive heat.

• Do not operate unattended.

• Do not operate equipment in public areas and/or around children.

• Do not operate if equipment has been damaged or is malfunctioning in any way

Function and Purpose

This equipment is designed to keep food at temperatures between 34°F (1.1°C) and 40°F (4.4°C). This equipment is intended and designed to keep chilled food at the proper serving temperature. Food must be prepared and placed in the display cabinets at the proper serving temperatures. Display cases are not intended or designed to cool or chill food. They are not intended for overnight storage of perishable food, and or household, industrial or laboratory use.

Unpack the Equipment

If the unit has been transported in a non-vertical position allow at least one hour before operating.

Remove all the packing material and tape, as well as any protective plastic from the equipment.

Remove bolts that secure the equipment to the pallet.

Remove any glue residue left over from the plastic or tape.

Clean the equipment before use. See the cleaning procedure in this document.

Countertop Model Installation

Clearance Requirements

Countertop cases require a minimum of 4" (10.2 cm) between the equipment and any walls surrounding the unit. Surrounding walls

Installation

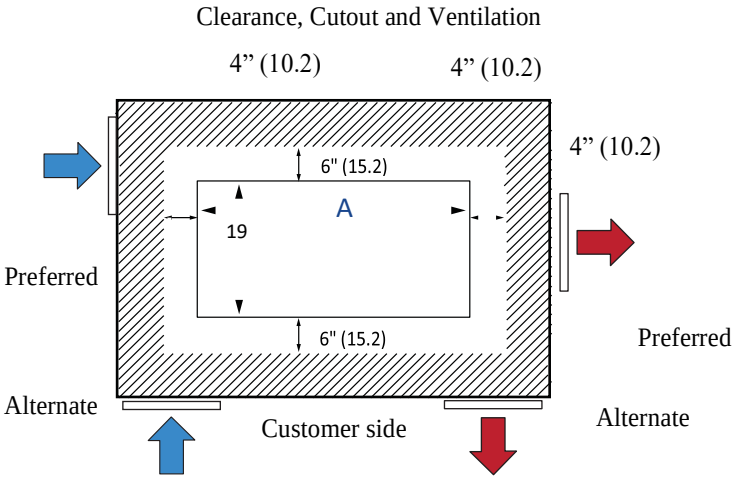
Place the equipment on a flat stable surface.

Plug the equipment into a properly grounded electrical supply matching the rating plate. Damage to the equipment can occur if the incorrect power is supplied to the unit.

NOTICE: Using a voltage other than the nameplate rated voltage will cause damage to the unit. Incorrect voltage, modification to the power cords or electrical components can the damage unit and will void the warranty.

After the installation is complete the thin breather wires on the top of the side glass panels may be trimmed and crimped closed.

Drop-in Model Installation



Drop-in cases require a minimum of 4” (10.2 cm) of a non-combustible countertop to support the unit and a minimum of 6” (15.2 cm) clearance on all sides of the drop-in to allow for proper air circulation.

Drop-in case requires a minimum of 80 square inches for fresh air intake and a minimum of 80 square inches for the exhaust. Customer supplied louvers/grills must be installed in the surrounding cabinet to ensure adequate ventilation. One intake and one discharge louver /grill are required. The preferred louver/ grill location is in the shorter ends of the cabinet.

Installation

1.Choose a flat level countertop to mount.

2. Measure the area for the cutout. (See the above drawing.)

Display Cabinet	A
36” Unit	48” Unit
40 lb (18.1 Kg)	48 lb (21.7 Kg)

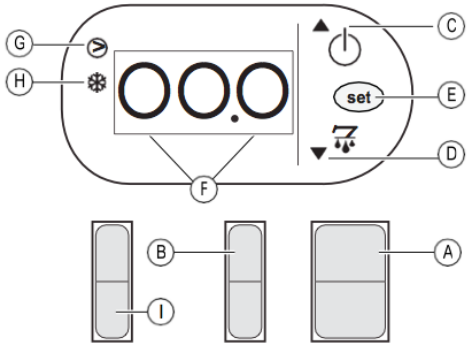
3. Seal the base of the unit to the countertop with food-grade silicone seal.

4. Plug the equipment into a properly grounded electrical supply that matches the rating plate. Damage to the equipment can occur if the incorrect power is supplied to the unit.

NOTICE: Using a voltage other than specified on the rating plate will cause damage to the unit. Incorrect voltage or modification to the power cord or electrical components can damage the unit and will void the warranty.

5. After the installation is complete the thin breather wires on the top of the side glass panels may be trimmed and crimped closed

Features and Controls



A **Main Power Switch.** Switch turns the power ON or OFF to the equipment.
B **Light Switch.** Switches the lights ON or OFF.
C **Multi-Function Power Button.** Depending on the mode, the button will turn the power ON or OFF to the controller or increases the temperature.
D **Multi-Function Button.** Depending on the mode the button will activate the defrost function or decreases the temperature.
E **Set Button.** Switches the temperature setting mode ON or OFF.
F **Display.** Displays the current temperature or the programmed temperature.
G **Compressor Cycle Light.** Illuminates steadily when the compressor is running. Light will flash when the compressor is in the delay cycle. The flashing light will last for about two minutes and is a normal part of the compressor cycle.
H **Defrost Light.** The light will flash when the equipment is in the defrost mode.
I **Glass Heater Switch.** Available on the countertop display cases with only operator side access. Not available on drop-in cases or cases with customer-side (self-serve) access. Switches the glass defrost ON or OFF.

Operation

	WARNING
	Electrical Shock Hazard Keep water and other liquids from entering the inside of the equipment. Liquid inside the equipment could cause an electrical shock
Do not spray the unit or controls with water or cleaning products. Liquid could come in contact with the electrical components and cause a short circuit or an electrical shock. Do not use unit if power cord is damaged or has been modified.	

NOTICE: Before using the unit, clean the unit as described in the CLEANING section of this document.
NOTICE: Allow the display case to chill for approximately 30 minutes before placing food inside the case.
NOTICE: Food must be prepared and placed in the display case at the proper serving temperature. This equipment is not intended or designed to cool or chill food. Regularly check the food temperature.

Bottom Shelf Weight Capacity

Weight must be distributed evenly over the bottom shelf.

36” Unit	48” Unit
40 lb (18.1 Kg)	48 lb (21.7 Kg)

Prepared, Cold food Display

1. Switch the main power switch to the ON position.
2. Switch the light switch to the ON position if desired.
3. Turn on the Controller
   Press and hold the multi-function button for three seconds. When the display shows a temperature, the controller is ON and will begin to refrigerate.
4. Set the Temperature
   1. Press and hold the set button for two seconds. The controller is now switched to ON. The display will flash the programmed temperature.
   2. To adjust the temperature, press the multi-function button to increase the temperature, or press the down button to decrease the temperature.
   3. Press the set button. The display will show the current temperature.
   4. The unit will now operate on the set temperature.
   5. Allow the display case to chill for approximately 30 minutes before placing food into the case.
5. Glass Heater (defrost) Function
   1. Switch the glass heater switch to the ON position.
   2. When the glass has defrosted, switch the glass defrost switch to OFF position.

Case Defrost Function

Press and hold the multi-function button for three seconds. The defrost cycle will begin and the defrost light will flash. The defrost cycle takes approximately two hours. To manually stop press and hold the multi-function button for three seconds. The defrost cycle will end.

Ambient Temperature, Non-chilled Display use

1. Turn the controller to the OFF mode.
2. Press and hold the multi-function button for three seconds. When the number display flashes “OFF”, the controller is in the OFF mode and will not refrigerate. The unit may be used for ambient temperature display.

Cleaning

<table>
<tr><td rowspan="2"></td><td>⚠ WARNING</td></tr>
<tr><td>Electrical Shock Hazard

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NOTICE: Do not use cleaning products containing aggressive chemicals, acids, or that contain chlorine.

To maintain the appearance and increase the service life, clean your equipment daily.

1. Unplug the equipment.
2. Use a damp cloth or sponge dipped in soapy water to clean the equipment; rinse and dry thoroughly.
3. A high quality non-toxic glass cleaner may be used to clean the glass components of the unit.
4. Periodically remove the rear panel and clean the coil s with a stiff
5. Have someone qualified to the clean the condenser coils, evaporator and fans twice a year or as necessary

Troubleshooting

Problem	Caused by	Solution
No power to the equipment	Faulty outlet	Have someone qualified person to replace the outlet
	Circuit breaker tripped	Reset your circuit breaker
	Compressor in a “delay” cycle	Wait two minutes for compressor to run
Compressor does not run	Faulty controller.	Have someone qualified person to repair the unit
	Faulty compressor.	
	Faulty compressor starter or capacitor.	
Compressor runs, temperature inside too warm.	Ambient temperature too high.	Lower the ambient temperature
	Excessive ice/frost build up on evaporator.	Use manual defrost function
	Faulty controller.	Use manual defrost button
	Dirty or faulty condenser fan.	
	Dirty or faulty evaporator fan.	