Kolice KDD-14

Kolice Commercial 14-Pan Hard Ice Cream Showcase Freezer User Manual

Model: KDD-14

1. Introduction

Thank you for choosing the Kolice Commercial 14-Pan Hard Ice Cream Showcase Freezer, Model KDD-14. This manual provides essential information for the safe and efficient operation, installation, maintenance, and troubleshooting of your new ice cream display freezer. Please read this manual thoroughly before installation and use, and retain it for future reference.
This unit is designed for commercial use to store and display various types of hard ice cream or popsicle ice cream, making it ideal for ice cream stores, cafes, restaurants, and similar establishments.

2. Safety Information

WARNING: To reduce the risk of fire, electric shock, or injury, always follow basic safety precautions when using this appliance.

- Ensure the unit is connected to a properly grounded 110V 60Hz electrical outlet. Do not use extension cords or adapters.
- Do not operate the unit with a damaged power cord or plug. If damaged, contact qualified service personnel.
- Keep ventilation openings in the appliance enclosure or in the built-in structure clear of obstruction.
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- Do not damage the refrigerant circuit.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- Only qualified personnel should perform repairs or maintenance.
- Before cleaning or performing any maintenance, always unplug the unit from the power supply.

3. Product Features

- **Capacity:** Designed for 14 standard 1/4 size pans (3 qt / pan).
- **Cooling System:** High-quality commercial low noise compressor with cooling air convection for fast and uniform freezing.
- **Temperature Control:** Smart temperature controller with a working range of 5°F to -0.4°F (-15°C to -18°C).
- **Defrost:** Automatic defrost function.
- **Display:** Triple insulating tempered glass with an anti-fog system (heating elements) and LED interior lighting.
- **Construction:** High-quality food-grade stainless steel pans and durable construction.
- **Mobility:** Equipped with four wheels for easy movement.



Figure 3.1: Front view of the Kolice KDD-14 Ice Cream Showcase Freezer, showing the curved glass display and pan layout.

4. Setup and Installation

4.1 Unpacking

- Carefully remove the unit from its packaging. Inspect for any shipping damage. Report any damage to the carrier immediately.
- Ensure all packing materials, including protective films and tapes, are removed from the unit.
- Verify that all included components, such as the 14 stainless steel pans, are present.

4.2 Placement

- Place the freezer on a strong, level surface capable of supporting its weight (N.W.: 205kgs / 451.5 lbs). The unit is equipped with wheels for easier positioning.
- Ensure there is adequate ventilation around the unit. Maintain at least 6 inches (15 cm) of clearance from walls or other obstructions on all sides, especially the rear where the compressor is located.
- Avoid direct sunlight, heat sources, or areas with high humidity.
- Before moving the unit through doorways, confirm the dimensions (53.94"D x 45.28"W x 51.97"H) will clear the

opening.



Figure 4.1: Rear view of the freezer, highlighting the power connection and ventilation area.

4.3 Electrical Connection

- Allow the unit to stand upright for at least 2-4 hours before plugging it in, especially if it was transported horizontally. This allows the refrigerant to settle.
- Connect the freezer to a dedicated 110V, 60Hz, 1360W grounded electrical outlet.
- Do not overload the circuit.

4.4 Initial Cleaning and Power-On

- Before first use, clean the interior and exterior surfaces with a mild detergent and warm water. Rinse thoroughly and dry completely.
- After plugging in, allow the unit to run empty for several hours (e.g., 4-6 hours) to reach its operating temperature before loading products.

5. Operating Instructions

5.1 Control Panel

The unit features a smart temperature controller and individual switches for power, demist (anti-fog), and lighting.



Figure 5.1: Control panel with temperature display and switches for Power, Demist, and Lighting.

- **Power Switch:** Turns the unit on or off.
- **Temperature Display:** Shows the current internal temperature.
- **Temperature Adjustment:** Refer to the specific controller manual for detailed instructions on setting the desired temperature (typically between 5°F to -0.4°F / -15°C to -18°C).
- **Demist Switch:** Activates the anti-fog heating elements in the glass to prevent condensation.
- **Lighting Switch:** Controls the interior LED lighting.

5.2 Loading Pans

- Place the 14 stainless steel pans into their designated slots within the display area.
- Ensure ice cream or gelato is pre-frozen to the desired consistency before placing it in the display freezer.
- Avoid overfilling pans, as this can hinder air circulation and affect cooling efficiency.



Figure 5.2: Interior of the freezer with 14 empty stainless steel pans ready for product.

5.3 Anti-Fog Function

The unit is equipped with a triple insulating tempered glass and an anti-fog system with heating elements. If condensation appears on the glass, activate the 'Demist' switch on the control panel. This will heat the glass surface to clear the fog, ensuring clear product visibility.



Figure 5.3: Visual representation of the anti-fog (demisting) function in action.

5.4 Automatic Defrost

This freezer features an automatic defrost function. The unit will periodically cycle through a defrost period to prevent excessive ice buildup. During defrost, the temperature may temporarily rise slightly, but it will return to the set temperature once the cycle is complete. Ensure proper drainage is maintained.

6. Maintenance

6.1 Cleaning the Interior and Exterior

- **Daily:** Wipe down the interior and exterior surfaces with a soft cloth dampened with a mild, non-abrasive cleaner.
- **Weekly:** Remove all pans and clean them thoroughly. Clean the interior display area, including the glass, with a food-safe cleaner.
- Always unplug the unit before cleaning.
- Do not use harsh chemicals, abrasive cleaners, or sharp objects that could damage surfaces.

6.2 Condenser Coil Cleaning

- The condenser coils, located at the rear or bottom of the unit, should be cleaned regularly (e.g., monthly or quarterly, depending on usage and environment).
- Unplug the unit. Use a brush or vacuum cleaner to remove dust and debris from the condenser coils. Clean coils improve efficiency and extend the life of the unit.

6.3 Door Gasket Inspection

- Regularly inspect the door gaskets for cracks, tears, or signs of wear. Damaged gaskets can lead to air leaks, reduced efficiency, and increased energy consumption.
- Clean gaskets with warm water and mild soap.

7. Troubleshooting

Before contacting service, please check the following common issues:

Problem	Possible Cause	Solution
Unit does not power on	No power supply; tripped circuit breaker; faulty power cord/plug.	Check power connection; reset circuit breaker; contact service if cord/plug is damaged.
Unit is not cooling sufficiently	Temperature setting too high; condenser coils dirty; poor ventilation; door gasket leak; too much warm product loaded.	Adjust temperature; clean condenser coils; ensure proper clearance; check/replace gasket; allow unit to recover.
Excessive frost buildup	Frequent door opening; faulty door gasket; high ambient humidity.	Minimize door openings; check/replace gasket; ensure proper room humidity.
Glass fogs up	Demist function off; high ambient humidity.	Turn on 'Demist' switch; ensure proper room humidity.
Unusual noises	Loose parts; unit not level; fan obstruction; compressor issue.	Check for loose parts; level the unit; clear obstructions; contact service if compressor noise is abnormal.

8. Specifications

Feature	Detail
Model Number	KDD-14
Brand	Kolice
Product Dimensions (LxDxH)	53.94" x 45.28" x 51.97" (137 x 115 x 132 cm)
Net Weight	205 kgs (451.5 lbs)
Power	1360W
Voltage/Frequency	110V / 60Hz
Temperature Range	5°F to -0.4°F (-15°C to -18°C)
Pan Capacity	14 x 1/4 pans (10.43"x6.38"x3.94" / 26.5x16.2x10cm, 3 qt each)
Defrost Type	Auto Defrost
Glass Type	Triple Insulating Tempered Glass with Anti-fog System
Cooling Type	Air Convection
Included Components	Compressors, 14 Stainless Steel Pans

9. Warranty and Support

9.1 Warranty Information

This Kolice Commercial 14-Pan Hard Ice Cream Showcase Freezer (Model KDD-14) comes with a**1-year quality warranty for all parts** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service. It does not cover damage resulting from misuse, accident, alteration, neglect, improper installation, or unauthorized repair.

9.2 Customer Support

For technical assistance, warranty claims, or to order replacement parts, please contact Kolice customer support. As a manufacturer, Kolice provides long-term technical support and spare parts for maintenance.
Please have your model number (KDD-14) and purchase date available when contacting support.

10. Product Video

Your browser does not support the video tag.

Video 10.1: An overview of the Kolice ice cream freezer showcase, demonstrating its features and design. This video highlights the automatic demisting function, air cooling system, and LED lighting.

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