

Coolake K450

Coolake Commercial Ice Maker Machine K450 User Manual

Model: K450

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation, installation, and maintenance of your Coolake Commercial Ice Maker Machine, Model K450. Please read this manual thoroughly before installation and use, and retain it for future reference.

The Coolake K450 is an air-cooled commercial ice maker designed for high-volume ice production, capable of producing up to 550 lbs of clear, full-dice ice cubes daily with a 360 lbs storage capacity. It features an advanced filtration system and an intuitive LCD control panel.

Key Features:

- **High Capacity:** Produces up to 550 lbs of ice per 24 hours with a 360 lbs storage bin.
- **Rapid Ice Production:** Ice-making cycles range from 5 to 15 minutes.
- **Advanced Water Filtration:** Equipped with an upgraded filter to reduce scale buildup and improve ice quality.
- **User-Friendly Control:** Intuitive LCD control panel for easy operation and monitoring.
- **Automatic Cleaning:** One-button auto-clean mode for simplified maintenance.
- **Air-Cooled System:** Energy-efficient design that does not require additional water for cooling.

2. SAFETY INSTRUCTIONS

Always follow basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, or injury.

- Ensure the ice maker is connected to a properly grounded power outlet.
- Do not operate the machine with a damaged power cord or plug.
- Keep hands and tools away from moving parts during operation.
- Do not immerse the appliance or its electrical components in water.
- Unplug the machine before cleaning, maintenance, or if it will be unused for an extended period.
- This appliance is intended for commercial use only.
- Ensure adequate ventilation around the unit.

3. SETUP AND INSTALLATION

3.1 Unpacking

The Coolake K450 ice maker is shipped in two separate packages: one for the ice machine head and one for the ice storage bin and accessories. Ensure both packages are received before beginning installation.



BOX 1



***Note:**

It shipped in 2 packages & may be delivered on different days, please install after receiving the full unit set .

BOX 2



Image: The Coolake K450 ice maker is delivered in two distinct packages. Box 1 contains the ice machine head, and Box 2 contains the ice storage bin along with all necessary accessories for installation, such as hoses, filters, and an ice scoop.

3.2 Placement

Select a location that is level, stable, and capable of supporting the weight of the machine and full ice bin. Ensure there is sufficient space for air circulation around the unit, especially at the sides and rear where air vents are located. Avoid direct sunlight or heat sources.



Image: The Coolake K450 ice maker positioned in a commercial environment, illustrating its compact footprint and how it integrates into a workspace without occupying excessive area.

3.3 Leveling

The unit comes with four stable feet. Adjust these feet to ensure the ice maker is perfectly level. Proper leveling is crucial for efficient ice production and drainage.

3.4 Water Connection

1. Connect the provided inlet hose to a potable water supply.
2. Install the premium water filter in line with the water supply to reduce scale buildup and improve ice

quality.

3. Connect the other end of the inlet hose to the water inlet port on the ice machine.
4. Ensure all connections are secure and leak-free.

3.5 Drainage Connection

1. Connect the draining hoses to the drain outlet on the ice machine and the ice bin.
2. Route the drain hoses to an appropriate floor drain, ensuring a continuous downward slope for proper water flow.
3. Verify that the drain hoses are not kinked or obstructed.

3.6 Electrical Connection

Plug the ice maker into a dedicated, grounded electrical outlet that matches the voltage and amperage requirements specified on the product label.

3.7 Initial Cleaning

Before first use, perform an initial cleaning cycle as described in the Maintenance section to ensure the machine is free of manufacturing residues.

4. OPERATING INSTRUCTIONS

4.1 Control Panel Overview

The Coolake K450 features an intuitive LCD control panel that displays the ice-making process and provides diagnostic information.

LCD PANEL

EASY TOUCH



Image: A detailed view of the LCD control panel on the Coolake K450 ice maker, showing various indicators for operation status, temperature, and time, along with touch-sensitive buttons for control.

4.2 Powering On/Off

Press the power button on the LCD panel to turn the machine on or off.

4.3 Ice Making Process

Once powered on and connected to water, the machine will automatically begin the ice-making cycle. The LCD panel will display the current status.

INTENSE ICE MAKING CAPACITY

550Lbs



Daily Supply
3500+ Cups

5~15Min



Ice-making
Cycle

Ice Cube



Size
7/8"x7/8"x7/8"

Image: A visual representation of the ice cubes produced by the Coolake K450, highlighting its capacity of 550 lbs per day, a rapid 5-15 minute ice-making cycle, and the consistent size of the ice cubes (7/8"x7/8"x7/8").

4.4 Adjusting Ice Thickness

The thickness of the ice cubes can be adjusted using the (up) or (down) buttons on the LCD panel. This allows for customization based on specific needs:

- **Thin (5-8 Mins):** Suitable for shaved ice desserts.
- **Medium (8-11 Mins):** Ideal for milk, coffee, tea, and general beverages.
- **Thick (11-15 Mins):** Recommended for cocktails, whiskey, and slower melting applications.

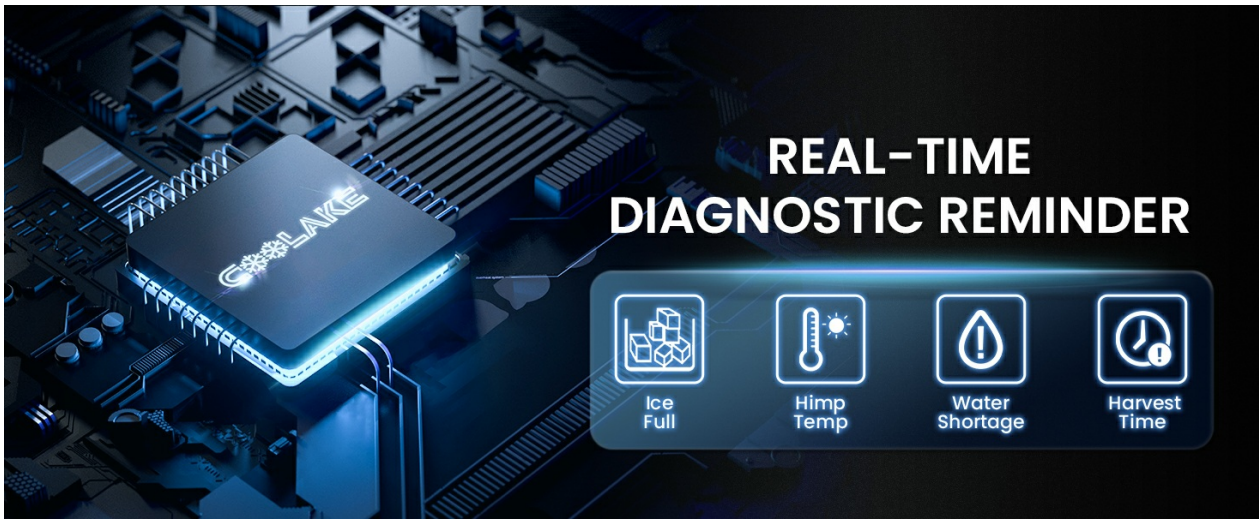


Image: A graphic illustrating the three adjustable ice cube thickness settings (Thin, Medium, Thick) with their respective production times and recommended applications, such as shaved ice, coffee, or cocktails.

4.5 Ice Storage

The integrated storage bin holds up to 360 lbs of ice. While the bin helps maintain ice temperature, it does not have a freezer function. It is recommended to use ice cubes as soon as possible for optimal quality.



Image: The Coolake K450 ice maker with its transparent ice storage bin filled with ice, accompanied by text indicating that ice cubes can remain chilled for up to 9 hours within the bin.

5. MAINTENANCE

5.1 Automatic Cleaning Mode

The ice machine features a one-button auto-clean mode. Press the designated button on the LCD panel to initiate a cleaning cycle. This process cleans all internal pipes and trays, helping to ensure ice cubes are odor-free.



Image: A visual representation of the automatic cleaning function, showing water circulating through the internal components of the ice maker to remove impurities and maintain hygiene.

5.2 Regular Cleaning

- **Exterior:** Wipe the exterior surfaces with a soft, damp cloth and mild detergent.
- **Interior (Ice Bin):** Regularly clean the ice storage bin with a food-grade sanitizer.
- **Condenser Coils:** Periodically clean the condenser coils to ensure efficient operation. Refer to the manufacturer's guidelines for frequency.

5.3 Water Filter Maintenance

The included water filter helps reduce scale buildup. Monitor the filter's performance and replace it according to the manufacturer's recommendations or if ice quality diminishes.

6. TROUBLESHOOTING

The built-in diagnostic system continually monitors the machine's status and can display alerts on the LCD panel. Refer to the following common issues:



Image: A graphic illustrating the real-time diagnostic reminders displayed on the control panel, including alerts for 'Ice Full', 'High Temp', 'Water Shortage', and 'Harvest Time', which assist in monitoring the machine's operational status.

Common Issues and Solutions:

- **No Ice Production:** Check water supply, power connection, and ensure the machine is not in a diagnostic error state (e.g., 'Water Shortage').
- **Ice Not Forming Properly:** Verify water temperature, ambient temperature, and ensure condenser coils are clean. Adjust ice thickness settings.
- **Error Codes:** The LCD panel will display specific error codes for issues like 'Freeze Overtime', 'Condenser Sensor', 'Water Level', 'High Pressure', or 'Bad Cooling'. Consult the full manual for a detailed list of codes and their remedies.
- **Ice Full Indicator:** If the 'Ice Full' indicator is on, the bin is full, and ice production will pause until ice is removed.

If problems persist after attempting these solutions, contact customer support.

7. SPECIFICATIONS

Feature	Specification
Model Number	K450
Daily Ice Production	Up to 550 lbs / 24 hours
Ice Storage Capacity	360 lbs
Ice Cube Type	Full Dice
Ice Cube Size	7/8" x 7/8" x 7/8"
Ice Making Cycle	5-15 minutes
Cooling Type	Air-Cooled
Product Dimensions (Ice Machine Head)	28"D x 22"W x 23"H
Product Dimensions (Ice Storage Bin)	28"D x 22"W x 42.8"H

Feature	Specification
Total Assembled Dimensions	28"D x 22"W x 65"H
Wattage	680 watts
Manufacturer	Coolake

8. WARRANTY AND SUPPORT

Coolake provides the following warranty for this product:

- **Parts:** 3-year warranty on parts.
- **Compressor:** 5-year warranty on the compressor.

For technical assistance, warranty claims, or to order replacement parts, please refer to the contact information provided with your purchase documentation or visit the official Coolake website.