



USER MANUAL

DISPLAY CASE

46" Countertop Ice Cream Display Case With 6 Pans

Model:
KM-CGD-6P



Before using, please read the operating instructions carefully to ensure proper application and achieve satisfactory results.

***For any service-related Issues, please contact
us: Phone Number: 718-576-6342
Email address: support@koolmore.com***

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General

1. This ice-cream freezer utilizes a top brand fully enclosed compressor, featuring environmentally friendly refrigerants R290. The rational configuration of the refrigeration system along with forced-air cooling provides even temperature distribution inside the freezer.
2. The freezer is equipped with double hollow transparent glasses on the door and body, ensuring an artistic and elegant appearance, excellent visibility, and easy access.
3. This freezer finds extensive applications in various environments, including department stores, households, meeting rooms, and sitting rooms. Its versatility makes it suitable for both commercial and residential settings, catering to a wide range of needs.

Structure and Parts

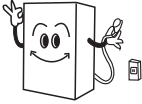


Assembly and Care Instructions

Handle with Care

Ensure to unplug the freezer from the wall socket prior to moving.

Never tilt the freezer beyond a 45-degree angle while handling.



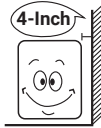
Dry Location

Always position the freezer in a dry location.



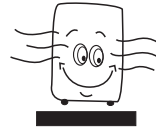
Ensure Sufficient Space

Maintain at least a 4-inch distance between the freezer's sides and back, and any walls or objects. This distance is crucial for proper air circulation. Insufficient space can impair the freezer's cooling ability.



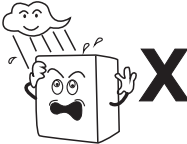
Proper Ventilation

Place the freezer in a well-ventilated location. After relocating the freezer, allow it to stand unplugged for 2 hours before plugging it back into the wall socket for initial startup.



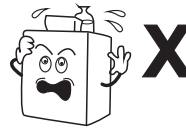
Avoid Heat Sources

Position the freezer away from direct sunlight and other heat sources like heaters. Exposure to such conditions can negatively impact the freezer's cooling efficiency.



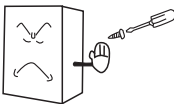
Avoid Heavy Loads

Do not place heavy objects atop the freezer.



No Modifications

Refrain from making any alterations, such as drilling holes or installing additional items, to the freezer.



Stable Placement

Carefully unpack the freezer and position it on a flat, stable surface. This precautionary measure will help prevent unwanted noise and vibrations.



Preparation and Power Supply

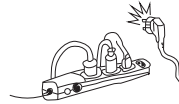
Dedicated Power Socket

The freezer should be powered by a 110-120V, 60Hz single-phase AC supply through a dedicated single-phase three-pin receptacle.



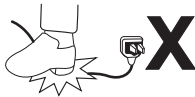
Avoid Socket Sharing

The freezer should never share a common socket with other appliances to prevent overheating of the power cable, which could lead to a fire.



Protect Cables

Ensure the power cables are not damaged or compromised to prevent electrical leakage and potential fire hazards.



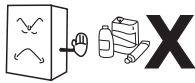
Avoid Water Exposure

Do not expose the freezer surface to water to avoid electrical leakage.



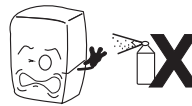
Avoid Flammables and Explosives

Never store any flammable or explosive substances such as ether, gasoline, alcohol, adhesive, and explosives in the refrigerator. Avoid placing these dangerous substances near the freezer.



No Spraying

Spraying of flammable substances such as paint or coatings near the freezer is prohibited, as it could lead to a fire



After Power Interruption

Following a power interruption or after unplugging the refrigerator, wait at least 5 minutes before plugging in and restarting the freezer.



Avoid Storing Medication

Do not store medication inside the freezer.

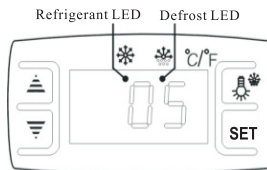


Usage and Precautions

1. Initial Use

- Plug the freezer into an exclusive 110-120V~ socket.
- After the freezer is running, check the air suction for sufficient coldness. If it's sufficiently cold, you may put food inside the cold box.
- This appliance is not intended for use by individuals (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Ensure children do not play with the appliance unsupervised.

1. Digital Temperature Controller



A. Features:

The controller is mini-sized and intelligent, suitable for one Hp compressors. Its functions include: Temperature Display/Control, Manual and Automatic Defrost, Illumination Control, Value Storing, Self-Testing, and Parameter Locking.

B. Front Panel Operations:

01. Temperature Setting:

Press the "SET" button to display the set temperature. Use "▲" or "▼" buttons to adjust and store the temperature. Press "SET" again to exit and display the cold-room temperature.

02. Display Default:

If no button is pressed within 10 seconds, the cold-room temperature will be automatically displayed.

03. Lighting and Defrost Control:

Press "☀" button to control the light; hold it for 6 seconds to start or stop the defrost cycle.

04. Refrigerant LED:

The LED is on during refrigeration and flashes when the cold room temperature is stable.

05. Defrost LED:

The LED is on during defrosting and turns off when defrosting ends.

06. Digital Controller Reset:

If the display shows "Disorder", press "▼" for 2 seconds until the buzzer rings. Quickly press "▲" for 6 seconds until the buzzer rings again. The display will flash for 3 seconds and the controller will reset to factory settings.

Usage and Precautions

3. Safety Precautions

- Minimize the frequency and duration of door openings to maintain cold temperatures inside the freezer.
- Ensure the air suction and outlet are not obstructed for effective air circulation and refrigeration.
- Do not overload the freezer, as this may impact its cooling efficiency.
- Adjust the rack height according to the size of the food items stored.
- Allow hot food to cool to room temperature before storing it in the freezer.
- Limit the opening of the freezer to maintain its internal temperature in case of power failure.
- Only trained professionals should repair the power cable using appropriate tools.
- Avoid touching the compressor to prevent burns.
- If the supply cord is damaged, it must be replaced by qualified personnel to prevent hazards.
- Persons with physical, sensory, or mental impairments, as well as those lacking experience or knowledge, should only use this appliance under supervision.
- Children should not be allowed to play with the appliance.
- The user manual may not be suitable for those with physical, sensory, or mental impairments, or a lack of experience or knowledge.
- Do not store explosive substances such as aerosol cans with a flammable propellant in the freezer.
- The noise level during normal operation does not exceed 70dB(A).
- Do not exceed the maximum load limit of 1.32 gallons per pan.
- The appliance operates best at ambient temperatures of 16°C-32°C (60.8°F-89.6°F).
- Avoid storing corrosive food to prevent damage.
- Ensure ventilation openings remain unobstructed.
- Avoid using mechanical devices or any other means to accelerate defrosting, unless recommended by the manufacturer.
- Avoid damaging the refrigerant circuit.
- Avoid using electrical appliances inside the food storage compartments unless recommended by the manufacturer.

Additional Warning:

Risk of fire. The height of the triangle in this symbol must be at least 0.59 inches.



Maintenance

1. General Notice

Maintain the freezer's cleanliness with regular upkeep. Always unplug before maintenance. Avoid using a damaged plug or loose socket to prevent electric shocks or short circuits. Do not clean the freezer with water, alkali detergent, soap, gasoline, acetone, or a brush.

2. Cleaning the Exterior

Use a soft cloth dipped in neutral detergent (like dish soap) to clean the freezer's exterior. Follow up by wiping with a dry, soft cloth.

3. Cleaning the Interior

Remove the rack for water cleaning. Use a soft cloth to clean the interior of the freezer.

4. Extended Shutdown

If the freezer will be unused for a prolonged period, remove all food and unplug it from the wall socket. Thoroughly clean the interior and exterior, leaving the door open to fully dry. As the glass can break easily, ensure it is kept out of reach from children.

5. Replacing the Lamp

If the LED lamp is damaged, it must be replaced by the manufacturer or its service agent.

Troubleshooting

Trouble	Cause and Remedy
No Refrigeration Describes a freezer that completely fails to cool or maintain the desired temperature inside.	<ul style="list-style-type: none">▪ Check if the plug is properly inserted into the socket.▪ Verify if the fuse is intact.▪ Ensure there is power supply.
Unsatisfactory Refrigeration Describes a freezer that is working but not cooling to the expected or set temperature.	<ul style="list-style-type: none">▪ Check if the freezer is placed under direct sunlight or near any heat source.▪ Ensure good ventilation in the surrounding area.▪ Verify if the door is properly closed or has been left open for a long period.▪ Inspect the door seal strip for any deformity or damage.▪ Check if the freezer is overloaded or congested with food.▪ Ensure food items do not block the air suction or outlet.▪ Adjust the temperature controller as needed.
Excessive Noise	<ul style="list-style-type: none">▪ Check if the freezer is properly leveled.▪ Verify if the freezer is in contact with a wall or another object.▪ Check for any loose parts in the freezer.

Note

Certain phenomena are normal and should not be considered as faults with your freezer:

- A murmuring or gurgling sound may be heard when the freezer is running. This is normal as it's simply the coolant circulating within the system.
- In humid weather, condensation may form on the exterior of the freezer. This is also normal and not a cause for concern. It occurs due to high humidity levels. Simply wipe it off with a cloth.

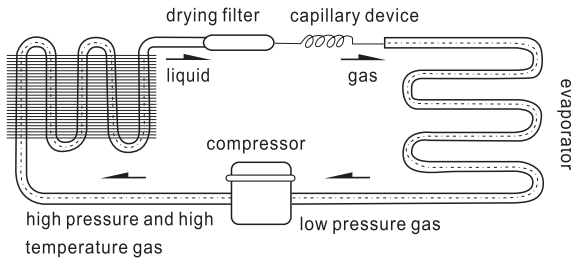
Principle of Refrigeration System and Electric Circuit Diagram

The principle of the compression refrigeration system revolves around four main steps: "compression," "condensation," "throttling," and "vaporization."

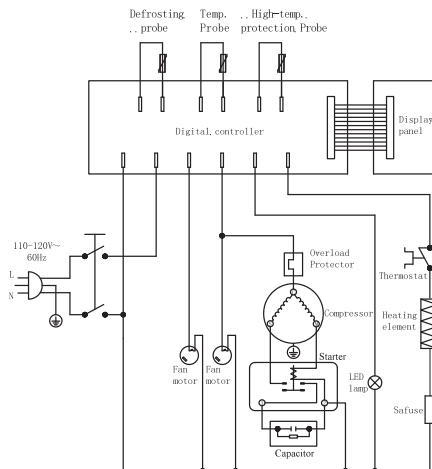
The process operates as follows:

- **Compression:** The compressor takes in the coolant, which has absorbed heat in the evaporator, turning it into a high-pressure, high-temperature gas.
- **Condensation:** In the condenser, the coolant dissipates heat into the air. As a result, the coolant re-liquefies.
- **Throttling:** This phase is executed by the capillary, which throttles the re-liquefied coolant into the evaporator at a low pressure.
- **Vaporization:** Upon entering the evaporator, the liquefied coolant quickly boils and vaporizes into a gas due to the sudden drop in pressure. In this phase, it absorbs heat from inside the refrigerator.

Finally, the compressor again takes in the low-pressure, low-temperature gaseous coolant. The process repeats itself in a cycle, enabling the refrigerator to maintain its cool temperature.



Circuit Diagram



Major Parameters

Model	KM-CGD-6P
Coolant and Injection Quantity (g)	R290 (140)
General Rated Input Power (W)	450
Defrost Power (W)	1020
Type of Climate	4
Refrigeration Temperature (°F)	10.4° to -7.6°
Total Effective Volume (GN)	6 * 1/3 GN
Net weight (LB)	205
Rated Voltage (V)	110-120~
Rated Current (A)	9
Rated Frequency (Hz)	60
Electric Shock Protection Class	I
Overall dimension (IN) (LxWxH)	46" x 33" x 24"

Note

- In the event of any changes, the final electric circuit diagram and parameters will be those specified on the product nameplate.
- Our design may be improved without prior notice to continuously enhance product performance and user experience.
- If the supply cord is damaged, it must be replaced immediately by the manufacturer, its service agent, or a similarly qualified professional to avoid potential hazards.



WARNING

The freezer uses R290, a flammable refrigerant. Please take precautions against fire.

Disposal Instructions



The crossed-out wheeled dustbin symbol indicates that electrical appliances should not be disposed of as unsorted municipal waste. Instead, utilize separate collection facilities.

For information regarding the available collection systems, contact your local government. If electrical appliances are improperly disposed of in landfills or dumps, hazardous substances can leak into the groundwater and enter the food chain, posing risks to health and well-being.

When replacing old appliances with new ones, check with your retailer about any haul-away or recycling programs they may offer for your old appliance. Remember to also check local regulations and available recycling programs in your area to ensure proper disposal.



WARRANTY

LIMITED WARRANTY

LIMITED WARRANTY KOOLMORE SUPPLY, INC. warrants to the original consumer or purchaser this KOOLMORE product is free from defects in material or workmanship for a period of One (1) year from the date of purchase. If any such defect is discovered within the warranty period, KOOLMORE SUPPLY, INC., at its discretion, will repair or replace the product at no cost or pay for replacement parts and repair labor to correct defects in materials or workmanship that existed when this major appliance was purchased or that are the result of normal usage when this major appliance is installed, operated and maintained according to instructions attached to or furnished with the product, At its sole discretion. Koolmore Supply Inc may determine to replace the product. In the event of product replacement, your appliance will be warranted for the remaining term of the original unit's warranty period.

This limited warranty is good only to the original purchaser of the product and effective only when used in the United States.

This limited warranty is effective from the date of original consumer purchase. Proof of original purchase date is required to obtain service under this limited warranty.

YOU'RE SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE PRODUCT REPAIR AS PROVIDED HEREIN.

Service must be provided by a Koolmore designated service company.

For warranty or repair service: Email us at support@koolmore.com include your name, address, phone number, warranty repair request, and a copy of your proof of purchase receipt.

You can also visit us at koolmore.com and use the contact us page.

KOOLMORE customer service will contact you and arrange prompt service for your appliance.

Thank you for choosing KOOLMORE.

THIS LIMITED WARRANTY DOES NOT APPLY TO

- 1.Failure of product to perform during power failures and interruptions or inadequate electrical service
- 2.Damage caused by transportation or handling.
- 3.Damage caused to the product by accident, vermin, lightning winds, fire, floods, or acts of God.
- 4.Damage resulting from accident, alteration, misuse, abuse, or improper installation, repair, or maintenance. Improper use includes using an external device that alters or converts the voltage or frequency of electricity
- 5.Any unauthorized product modification, repair by unauthorized repair center, or use of non-approved replacement parts.
- 6.Abnormal cleaning and maintenance as described in the user's manual.
- 7.Use of accessories or components that are not compatible with this product.

The cost of repair or replacement under these excluded circumstances shall be borne by the consumer.

