



OPEN AIR MERCHANDISER

24 Cu. Ft. Commercial Open Air Beverage Merchandiser With Sliding Glass Doors

Model: KM-CDA-SL24C



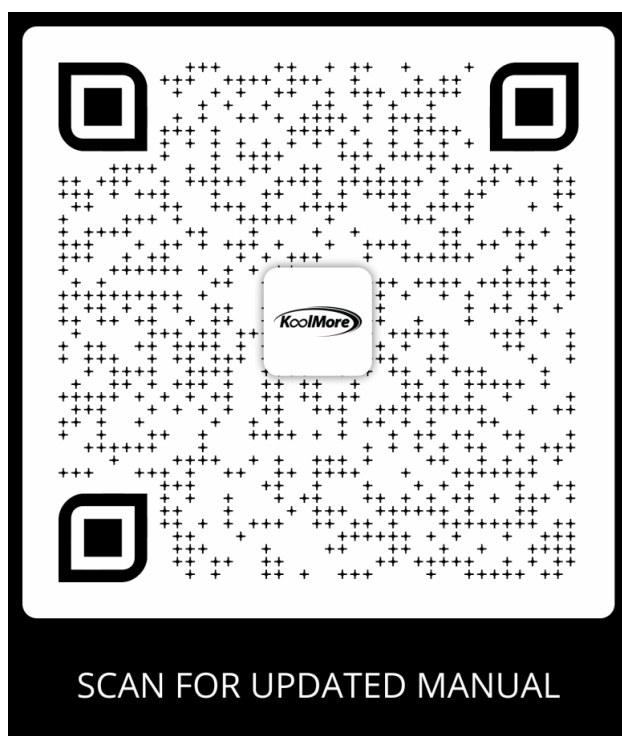
Please read this manual carefully before installation and operation to ensure safe and proper use of the appliance.

For any service related issues, please contact us:

☎ 718-576-6342 ✉ support@koolmore.com

Stay informed with the latest information for your KoolMore appliance.

Scan the QR code below to access the most recent User Manual on our website, which is constantly being updated and improved.



If you need any assistance or have questions, our customer support team is here to help.

Phone: 718-576-6342 Email: support@koolmore.com

Please write down the model number and serial number below for future reference. Both numbers are located on the rating label on the back of your unit or inside of the unit and are needed to obtain warranty service. You may also want to staple your receipt to this manual as it is your proof of purchase and may also be needed for service under warranty.

Model Number: _____

Serial Number: _____

Date of Purchase: _____

To better serve you, please do the following before contacting customer service:

If you received a damaged product, immediately contact the retailer or dealer that sold you the product.

Read and follow this User Manual carefully to help you install, use, and maintain your unit.

Refer to the Troubleshooting section of this manual as it will help you diagnose and solve many common issues.

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Safety

IMPORTANT SAFETY INSTRUCTIONS

Read and follow all instructions before installing, operating, or maintaining this open-air merchandiser. Failure to do so may result in fire, electric shock, injury, property damage, or voided warranty.

General Warnings

- This appliance is for commercial indoor use only. Do not install or operate outdoors, in direct sunlight, near heat sources (e.g., ovens, fryers, heating vents), or in areas with excessive moisture, dust, or air disturbances.
- Do not use in residential settings or near open flames, flammable materials, or explosive vapors.
- Keep the appliance away from children and ensure it is not used as a toy or play structure.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or a lack of experience and knowledge, unless supervised or instructed on safe use and hazards.
- Children must not play with, climb on, or operate the appliance.
- Cleaning and user maintenance must not be performed by unsupervised children.
- Never leave the appliance unattended during operation. Supervise children at all times near the unit.

Electrical Safety

WARNING – Risk of Electric Shock

- Plug into a grounded 110-120V, 60Hz outlet rated for the unit's amperage (check nameplate). Use a dedicated circuit with a minimum 15A (or as specified) to avoid overload.
- If the power cord or plug is damaged, discontinue use immediately and have it replaced by qualified service personnel only (do not use extension cords).
- Unplug before cleaning, maintenance, moving, or servicing.
- Do not use if cord is frayed, pinched, or exposed to water.
- If local or National Electrical Code (NEC) requires GFCI protection, use a GFCI breaker or receptacle.
- Do not modify electrical components or wiring—tampering voids ETL certification and may cause fire or shock.

Installation and Placement

CAUTION

- Install on a level, stable surface to prevent tipping. Adjust leveling legs/feet as needed.
- **Maintain required clearances:** at least 4-6 inches from walls/back for ventilation (check model specs); avoid blocking air intake/exhaust or air curtain.
- Do not place near doors, HVAC vents, fans, or high-traffic areas that disrupt airflow—poor airflow can affect performance and safety.
- Do not overload shelves beyond rated capacity (check specs).

- **Ensure proper ambient conditions:** Operate the unit in an environment below 90°F with 55% relative humidity.

Operation and Use

- Do not use mechanical devices to accelerate defrosting unless recommended by the manufacturer.
- Do not use abrasive cleaners, pressure washers, or immerse in water—risk of electric shock or damage.
- Do not store flammable materials inside or near the unit.

Disposal

WARNING

Do not dispose of this appliance as unsorted municipal waste. Contact your local waste authority for proper recycling or disposal instructions (e.g., separate collection for electrical/electronic equipment). Improper disposal may release hazardous substances into the environment.

ADDITIONAL WARNING:



Caution: Risk of fire. Flammable refrigerant used.

Do not puncture refrigerant tubing. Keep ventilation openings clear. Servicing must be performed by qualified personnel only.



Meaning of crossed out wheeled dustbin:

Do not dispose of electrical appliances as unsorted municipal waste; use separate collection facilities.

Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and enter the food chain, damaging your health and well-being.

Product Overview



Installation

Handling & Placement

Handle With Care

Transport and move the open-air merchandiser carefully. Do not tilt the unit more than 45° during handling.

Stable Surface

Place the refrigerator on a flat, solid, and level surface to prevent vibration, noise, or instability.

Dry Location

Install the unit in a dry indoor area. Do not place the refrigerator in damp or wet environments.

Adequate Clearance

Maintain at least 4 inches of space on both sides and at the back of the unit to ensure proper air circulation.

Insufficient clearance may reduce refrigeration performance.

Proper Ventilation

Locate the refrigerator in a well-ventilated area. Good airflow is essential for efficient operation.

Keep Away From Heat Sources

Do not install the refrigerator in direct sunlight or near ovens, heaters, or other heat sources, as this may reduce cooling efficiency.

Do Not Place Heavy Objects on Top

Do not place heavy loads or objects on top of the refrigerator.

Do Not Modify the Unit

Do not drill holes into the refrigerator or attach external fixtures that are not approved by the manufacturer.

Before First Start-Up

After transportation or relocation, allow the refrigerator to stand upright for at least 2 hours before connecting it to power.

Electrical Requirements

Dedicated Power Supply

Connect the refrigerator to a dedicated 110V, single-phase AC outlet with a properly grounded three-prong receptacle, in accordance with local electrical codes.

Proper Grounding Required

The power outlet must have a reliable ground connection.

Do Not Share the Outlet

Do not connect the refrigerator to a shared outlet or extension cord. Overloading the circuit may cause overheating or fire.

Protect the Power Cord

Do not bend, damage, or place heavy objects on the power cord. A damaged cord may result in electric shock, current leakage, or fire.

Do Not Spray With Water

Do not spray or flush the unit with water. Water entering electrical components may cause an electric shock or a malfunction.

Keep Away From Flammable Materials

Do not store or use flammable or explosive substances (such as gasoline, alcohol, ether, or adhesives) inside or near the refrigerator.

No Flammable Sprays Nearby

Do not spray paint, coatings, or other flammable substances near the refrigerator.

After Power Interruption

After a power failure or unplugging the unit, wait at least 5 minutes before reconnecting to power. This protects the compressor from damage.

Not Intended for Medicine Storage

This refrigerator is not designed for the storage of medicines or medical products.

Operation

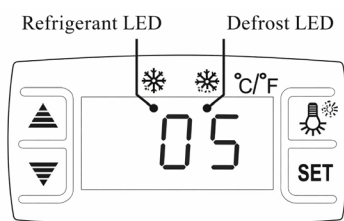
1. Before First Use

- Plug the refrigerator into a dedicated **110–120V grounded outlet**.
- Allow the unit to run until it reaches the desired temperature before loading product.
- Confirm that cold air is circulating inside the cabinet before placing food inside.
- Only load food once proper cooling performance has been achieved.

Safety Notice:

This appliance is not intended for use by children or persons with reduced physical, sensory, or mental capabilities, or a lack of experience and knowledge, unless properly supervised. Children must not play with the appliance.

2. Digital Temperature Controller



Controller Functions

This unit is equipped with an integrated digital controller suitable for compressors up to 1 HP.

Main functions include:

- Temperature display
- Temperature adjustment
- Automatic and manual defrost
- Interior light control
- Parameter locking
- Self-testing
- Value storage

3. Digital Controller Operation

Setting the Temperature

1. Press the **SET** button once. The current set temperature will appear on the display.
2. Use the ▲ or ▼ buttons to adjust the temperature.
3. Press **SET** again to save the new setting.
4. If no buttons are pressed within 10 seconds, the display will automatically return to the cabinet temperature.

Illumination Control

- Press the light button once to turn the interior light ON.
- Press again to turn the light OFF.

Manual Defrost

- Press and hold the light button for 6 seconds to initiate a manual defrost cycle.
- Press and hold again for 6 seconds to stop the defrost cycle.

Indicator Lights

- **Refrigeration LED**
 - ON during active refrigeration.
 - Flashing occurs when the cabinet temperature has stabilized.
- **Defrost LED**
 - ON during defrost cycle.
 - OFF when defrost cycle is complete.

Reset to Factory Settings

If the display shows "Disorder":

1. Press and hold the ▲ button for 2 seconds until the buzzer sounds.
2. Immediately press and hold the ▼ button for 6 seconds until the buzzer sounds again.
3. The display will flash for approximately 3 seconds and restore factory settings.

Note: This step is for technicians performing repairs on the unit.

4. Operating Cautions

- If the power cord is damaged, it must be replaced by the manufacturer or a qualified technician.
- Do not block air intake or air outlet vents.
- Do not overload shelves or stack food tightly, as this may reduce cooling performance.
- Allow hot food to cool to room temperature before placing it inside the refrigerator.
- Avoid turning the compressor on and off rapidly.
- In the event of a power outage, keep doors closed to maintain internal temperature.
- Do not store flammable or explosive substances (such as aerosol cans with flammable propellant) inside the unit
- Maximum shelf load: 40 lbs per shelf.
- During normal operation, the noise level does not exceed 70 dB(A).
- Climatic Class: 3
Recommended ambient temperature: **60°F–77°F**.
- Do not store corrosive substances inside the unit.

Digital Controller Troubleshooting

⚠ For Qualified Service Technicians Only

The following information is intended for trained and authorized service personnel. Customers should **not** attempt to diagnose, service, or repair internal electrical components. Doing so may result in injury and will void the warranty.

Fault Code	Description	Possible Cause	Corrective Action (Technician Only)
EE1	Temperature Probe Fault	Open circuit or short circuit in cabinet temperature probe	<ul style="list-style-type: none"> • Inspect probe wiring and connector at main control board. • Verify probe resistance value. • Replace temperature probe if defective.
EE2	Defrost Probe Fault	Open circuit or short circuit in defrost probe	<ul style="list-style-type: none"> • Inspect defrost probe wiring and connector. • Test probe resistance. • Replace defrost probe if faulty.
EE3	Overheat Probe Fault	Open circuit or short circuit in overheat protection probe	<ul style="list-style-type: none"> • Inspect overheat probe wiring and connector. • Test probe resistance. • Replace overheat probe if necessary.
EE4	Overheat Protection Activated (Approx. 136°F)	Condenser overheating condition	<ul style="list-style-type: none"> • Clean condenser coil thoroughly. • Verify condenser fan motor operation; repair or replace if not running. • Ensure minimum rear clearance is maintained. • Confirm ambient temperature is within rated operating range.

Maintenance

Proper maintenance is essential to ensure safe operation, optimal performance, and long equipment life.

⚠ Always disconnect the power supply before performing any cleaning or maintenance.

1. Cabinet Cleaning

- Clean the interior and exterior of the cabinet at least once per week.
- Use warm water and a mild, non-corrosive detergent.
- Wipe dry with a soft cloth after cleaning.
- Do not use abrasive cleaners, steel wool, or corrosive chemicals.
- Do not wash the unit with a water hose or high-pressure spray.

2. Condenser Cleaning

To maintain proper cooling performance, the condenser must be kept clean.

Cleaning Frequency

- Clean the condenser at least once every 1–3 months, depending on the environment.
- In dusty or high-traffic areas, more frequent cleaning may be required.
- If the display shows “EE4”, clean the condenser immediately.

If the EE4 alarm continues after cleaning, contact authorized service.

Cleaning Procedure

1. Disconnect power.
2. Remove the front or bottom access panel (as applicable).
3. Use a soft brush or compressed air to remove dust and debris from the condenser fins.
4. Reinstall the panel securely before restoring power.

Do not use water directly on the condenser or electrical components.

3. Condenser De-Dusting (Air Intake Area)

- Ensure the air intake and ventilation openings remain clear of dust and obstructions.
- Remove accumulated dust from the cooling fins using a brush or compressed air.
- Keep the surrounding areas clean to reduce debris buildup.

4. Leak Inspection

- Periodically inspect all connectors and welded joints for signs of oil residue.
- Oil stains may indicate a refrigerant leak.
- If leakage is suspected, discontinue use and contact qualified service personnel immediately.

5. Operational Monitoring

- Regularly observe the unit during operation.

- If abnormal noise, odor, smoke, or vibration occurs:
 - Immediately disconnect power.
 - Contact qualified service personnel.
 - Do not restart the unit until the issue has been resolved.

Troubleshooting

No.	Problem	Possible Causes	Recommended Solutions
1	Unusual noise beneath the bottom shelf	<ul style="list-style-type: none"> Fan blade damaged or broken 	<ul style="list-style-type: none"> Disconnect power and inspect the fan blade. Replace if damaged
2	Unit not cooling despite normal operation.	<ul style="list-style-type: none"> Unit turned off Unit in defrost cycle Refrigerant leak Control malfunction 	<ul style="list-style-type: none"> Turn unit on Allow defrost cycle to complete Contact a qualified technician to inspect for refrigerant leaks and recharge system Contact authorized service personnel
3	Weak airflow from air curtain and elevated cabinet temperature.	<ul style="list-style-type: none"> Evaporator blocked by frost Damaged internal fan Temperature set too high Air vents blocked by stored items 	<ul style="list-style-type: none"> Increase defrost frequency Replace fan (technician required) Adjust temperature set point Remove obstructions and ensure proper airflow
4	Normal airflow but cabinet temperature too high.	<ul style="list-style-type: none"> Insufficient refrigerant. Temperature set too high Air curtain disrupted by strong airflow High ambient temperature or humidity 	<ul style="list-style-type: none"> Contact technician to check refrigerant level Adjust temperature set point Remove sources of strong air drafts Improve room ventilation or environmental conditions
5	Water overflow during defrost cycle.	<ul style="list-style-type: none"> Defrost heater malfunction Water level controller failure High ambient temperature or humidity 	<ul style="list-style-type: none"> Replace defrost heater (technician required) Replace water level controller (technician required) Improve environmental conditions
6	Normal airflow but periodic cabinet temperature fluctuations	<ul style="list-style-type: none"> Dirty condenser Poor ventilation Compressor thermal protection activating Capillary tube iced over Temperature controller malfunction 	<ul style="list-style-type: none"> Clean condenser coil Improve ventilation clearance Contact technician to inspect compressor Contact technician to inspect refrigeration system Replace temperature controller (technician required)

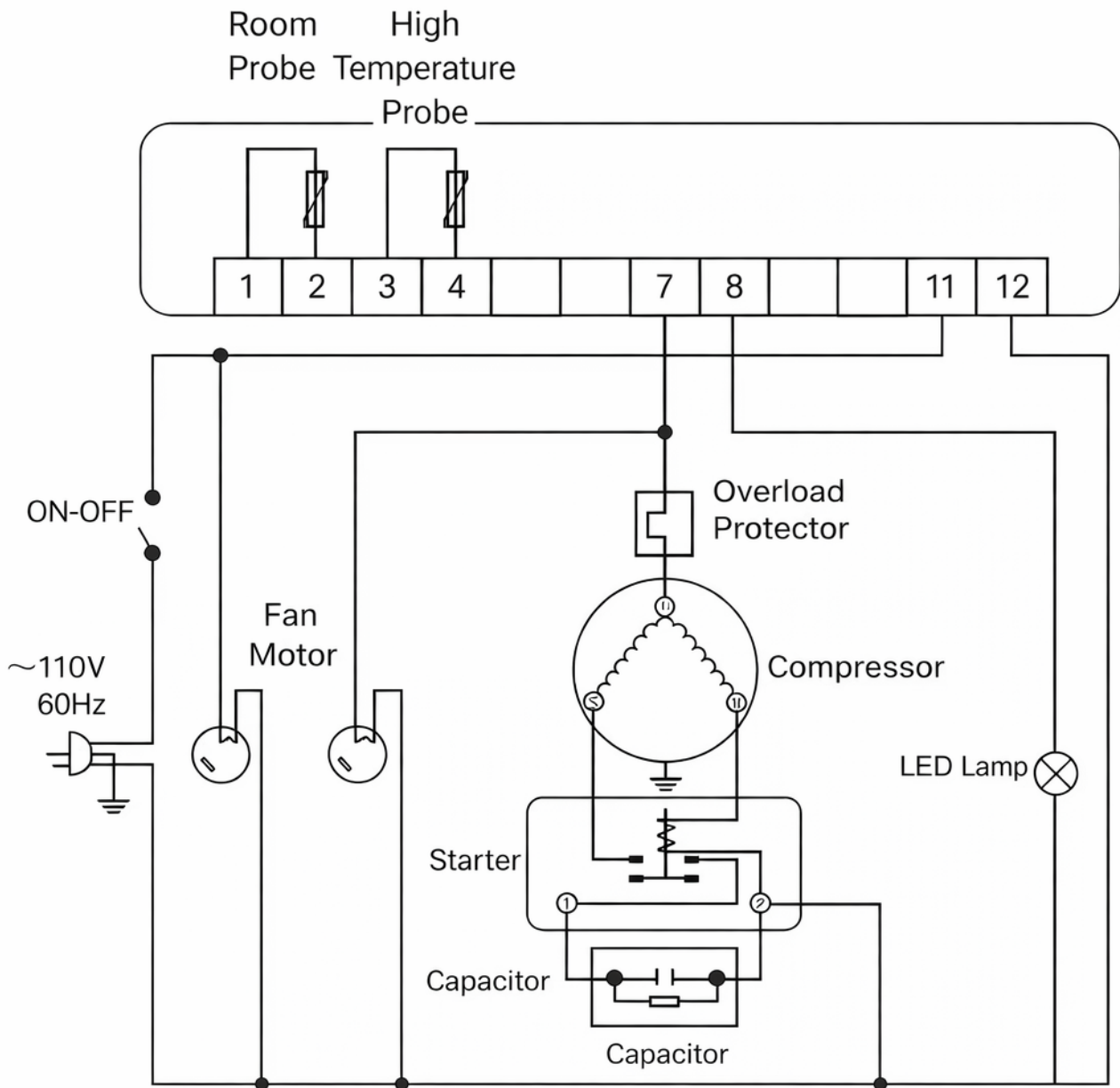
Note

The following conditions are normal and do not indicate a malfunction:

A murmuring or flowing water sound may be heard while the refrigerator is operating. This is normal and occurs as refrigerant circulates through the system.

During periods of high humidity, condensation may form on the exterior surface of the refrigerator. This is a normal condition. Simply wipe the surface with a dry cloth.

Circuit Diagram



This diagram is provided for reference purposes only. Actual wiring and components may vary depending on model, production batch, or updates. Do not attempt repairs or modifications based on this diagram. Contact qualified service personnel or KoolMore support for any electrical issues.

Technical Parameters

Parameter	KM-CDA-SL24C
Refrigerant and Charge (g)	R290 & 200
Rated Input Power (W)	640
Refrigeration Temperature (°F)	32–53.6
Gross Capacity	24.7 cu. ft.
Net Weight (lbs)	410.1
Rated Voltage (V)	110~
Rated Frequency (Hz)	60
Overall Dimension (in.) (L × W × H)	51.57 × 27.95 × 70.67
Rated Current (A)	6.1



WARRANTY

LIMITED WARRANTY

KoolMore Supply Inc. extends a limited warranty to the original purchaser, guaranteeing that this KoolMore product is free from manufacturing defects in material or workmanship for one year from the date of purchase.

Should you discover any such defect within the warranty period, KoolMore Supply Inc. reserves the right to repair or replace the product without charge, or to cover the cost of replacement parts and repair labor needed to correct defects present at the time of purchase or resulting from regular usage, when the appliance has been installed, operated, and maintained as per the instructions provided.

At its sole discretion, KoolMore Supply Inc. may decide to replace the product. In such an event, your replacement appliance will carry the warranty for the remaining term of the original unit's warranty period.

This warranty is valid exclusively to the original purchaser of the product and only applicable within the United States. The warranty commences from the date of original consumer purchase. Proof of the original purchase date will be required to obtain service under this warranty.

Under this limited warranty, your sole and exclusive remedy will be product repair, as outlined above. All services must be provided by a KoolMore designated service company.

KoolMore shall not be responsible or liable for any loss, spoilage, or damage to food, beverages, pharmaceuticals, medical supplies, or any other contents stored in the unit resulting from failure, malfunction, defects, improper installation, improper use, power interruption, or any other cause. Any such losses are expressly excluded from coverage under this warranty.

To claim warranty or request repair service:

Email support@koolmore.com. Please include your name, address, phone number, warranty repair request, and a copy of your proof of purchase receipt. Alternatively, visit koolmore.com and use the Contact Us page. A KoolMore customer service representative will promptly arrange service for your appliance.

We thank you for choosing KoolMore.

WARRANTY EXCLUSIONS

This limited warranty will not cover:

1. Failure of the product to perform during power failures or interruptions, or due to inadequate electrical service.
2. Damage incurred during transportation or handling.
3. Damage caused by accidents, vermin, lightning, winds, fire, floods, or acts of God.
4. Damage resulting from accidents, alterations, misuse, abuse, improper installation, repair, or maintenance. This includes using any external device that alters or converts the voltage or frequency of electricity.
5. Unauthorized product modifications, repairs by unauthorized centers, or use of non-approved replacement parts.
6. Abnormal cleaning and maintenance not aligned with the user's manual.
7. Use of incompatible accessories or components.
8. Any costs associated with repairs or replacements under these excluded circumstances shall be the responsibility of the consumer.

KoolMore