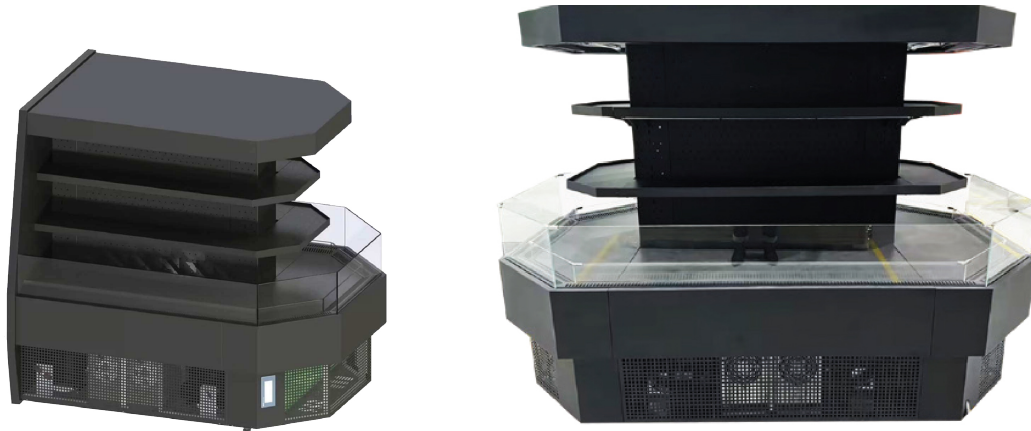




HKMI Series

Refrigerated Self-Service Island Merchandiser

Installation & Technical Data

AUGUST 2026

HKMI-60-EC-S

HKMI-80-S

HKMI-100-S

Medium Temperature · Air-Cooled · R-290

Thank you for choosing and purchasing our product. Please carefully read the operation instructions before use for a correct application and satisfactory effect.

General

This product is a type of chilling cabinet, which is our new development of refrigeration combining the advanced technologies from both and abroad on the basis of food cabinet standards and corporate criteria. Its main kits and key components are all quality brands, and streamlined design, the product integrates the actual market demand in structural design, which better cater to the ergonomics requirements of consumers.

This series applies mainly to displaying and selling of drinks, dairy products, vegetables and fruits, and sandwiches.

Notes

- The electric circuit diagram and parameters on the product name plate are final ones if they have been changed.
- The design might be improved without notice.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

WARNING: Refrigerant is R290, please protect against fire.

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 get into the food chain, damaging your health and well-being.

Major Parameters



NEMA 6-20P



HKMI-60-EC-S

Refrigerant & Injection	R290 / 130g × 3
General Rated Input Power (W)	1,672
Refrigeration Temp. °C (°F)	1–4 (33–40)
Type of Climate	3
Storage Volume (cu ft)	26.9
Protected Mode	I
Rated Voltage (V~) 6-20P Plug	220
Rated Frequency (Hz)	60
Rated Current (A)	8.0
Net Weight (lbs)	522.5
Overall Dimension (in)	59.1 × 48.4 × 57.1

HKMI-80-S

Refrigerant & Injection	R290 / 160g × 4
General Rated Input Power (W)	1,900
Refrigeration Temp. °C (°F)	1–4 (33–40)
Type of Climate	3
Storage Volume (cu ft)	30.01
Protected Mode	I
Rated Voltage (V~) (Hardwired)	220
Rated Frequency (Hz)	60
Rated Current (A)	16.7
Net Weight (lbs)	784.8
Overall Dimension (in)	83.5 × 51.4 × 65

HKMI-100-S

Refrigerant & Injection	R290 / 160g × 4
General Rated Input Power (W)	1,956
Refrigeration Temp. °C (°F)	1–4 (33–40)
Type of Climate	3
Storage Volume (cu ft)	37.7
Protected Mode	I
Rated Voltage (V~) (Hardwired)	220
Rated Frequency (Hz)	60
Rated Current (A)	18
Net Weight (lbs)	895.1
Overall Dimension (in)	98.4 × 47.2 × 57.1

We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.

Installation

Handle with Care

Make sure the power is turned off. Never tilt it over 45 degrees during handling.

Dry Place

Always locate the refrigerator at a dry place.

Sufficient Space

The distance from both sides and back of refrigerator to wall or other substance must not be less than 6 inches. The refrigeration capability might be decreased if its surround space is too small to circulate air.

Well Ventilation

Always locate the refrigerator at a place with ventilation. For the first time use, wait for 2 hours after handling and then plug the wall socket and start it.

Far from Heat Source

Never place the refrigerator directly under the sunshine. Never locate it nearby any heat source or heater to prevent it from reducing refrigeration capability.

No Heavy Load

Never put any heavy load on the top of the refrigerator.

Stable Location

To avoid the unexpected noise and vibration, unpacking and locate the refrigerator on a flat and solid place.

Preparation and Power Supply

Exclusive Power Socket

The power supply should be on a dedicated 220V, Single Phase circuit.

No Share on Socket

Never let the refrigerator share the circuit with other appliance, otherwise the cable becomes hot and fire might be resulted.

Protect Cables

Never break or damage the cables otherwise current leakage and fire might be resulted.

No Water Flushing

Never give the refrigerator surface a flush otherwise current leakage might be resulted.

No Spray

To spray the flammables such as paint or coating nearby the refrigerator is not allowed.

After Power Break

After power break or unplugging the refrigerator, always wait at least 5 minutes and then you may plug the refrigerator and start it again.

Use and Caution

Before Use

Make sure the breaker is turned on into an exclusive 220V~ socket. Verify that the unit is running, place your hand on the air extractor to confirm that it is sufficiently cold once you may put food inside.

Cautions

- Never block the air suction and outlet. Keep air circulation and refrigeration capability.
- Adjust the rack height for proper food storage.
- Cool the hot food down to room temperature before you place it into the refrigerator.
- Pull down the curtain and keep refrigerator inside cold in case the power is cut off.
- Never touch compressor to avoid possible burn.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- During normal operation, the emission noise level does not exceed 70dB(A).
- The maximum loading of the Shelf does not exceed 40 lbs.
- The climatic class of the appliance is 3, the Units are suggested to be used at 16°C–25°C (60.8°F–77°F) ambient temperature.

Maintenance

- **Cabinet cleaning.** The product should be cleaned once a week with power supply disconnected. In cleaning please use mild rinsing water or non-corrosive cleanser. Do not wash it directly with water hose.
- **Leaking check.** Observe all connectors and welding joints for oil stain, which indicates a must for patching measures or call for professionals.
- Frequently observe the operation of the product. In case of any abnormal noise, smell or smog, cut off the power supply immediately and call for professionals for help. Do not restart the product before trouble is cleared.
- We will not be responsible for any accident incurred by failures of following these parameters.

Trouble Shooting

#	Troubles	Causes	Solutions
1	Strange noise under the bottom shelf	Fan blade broken.	Power off and fix the blade.
2	Non-refrigerating in spite of normal operation	1. Unit off. 2. Melting process. 3. Refrigerant leaking. 4. Unit failure.	1. Power on. 2. Stop melting. 3. Patch the leak and refill refrigerant. 4. Call for professionals.
3	Weak air from air curtain, and higher cabinet temperature	1. Evaporator blocked by frost. 2. Inside fan damaged. 3. Too low set point of temperature controller. 4. Vent blocked by storage.	1. Increase melting frequency. 2. Replace the fan. 3. Adjust the set point. 4. Remove the storage.
4	Normal air curtain, but higher cabinet temperature	1. Insufficient refrigerant. 2. Too high set point of temperature controllers. 3. The wind curtain disturbed by strong air flow. 4. Ambient temperature or humidity beyond standards.	1. Refill the refrigerant. 2. Adjust the set point for the temperature controller. 3. Removing the disturbing factors. 4. Improve the conditions.
5	Melting water overflown	1. Heating pipe for melting water damaged. 2. Water-level controller failure. 3. Ambient temperature or humidity beyond standards.	1. Replace the heating pipe. 2. Replace the water-level controller. 3. Improve the conditions.
6	Normal air curtain, but periodical fluctuation of cabinet temperature	1. Condenser contaminated. 2. Poor venting of the unit. 3. Heat protection of compressor failure. 4. Capillary is blocked by ice. 5. Temperature controller failure.	1. Clean the condenser. 2. Improve the venting conditions. 3. Replace the heat protection. 4. Replace the drying filter. 5. Replace the temperature controller.

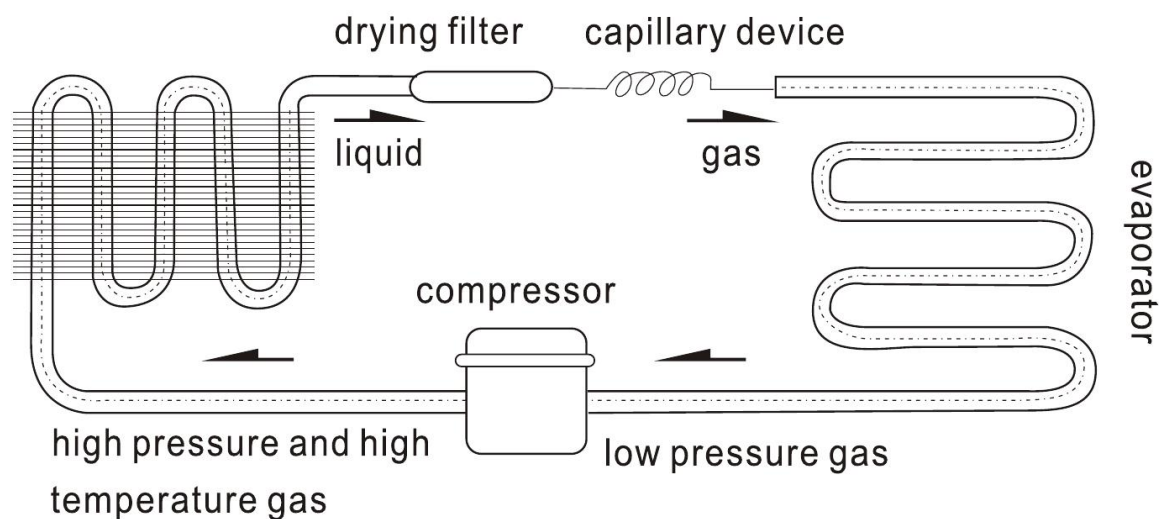
Note

- **Following events are not troubles:** The murmur of water is heard when the refrigerator is working. It is a normal phenomenon as the coolant is circulating in the system.
- In wet season, condensation might be found on the outside of the refrigerator. It is not a trouble, which is caused by high humidity. Simply use cloth to wipe it.

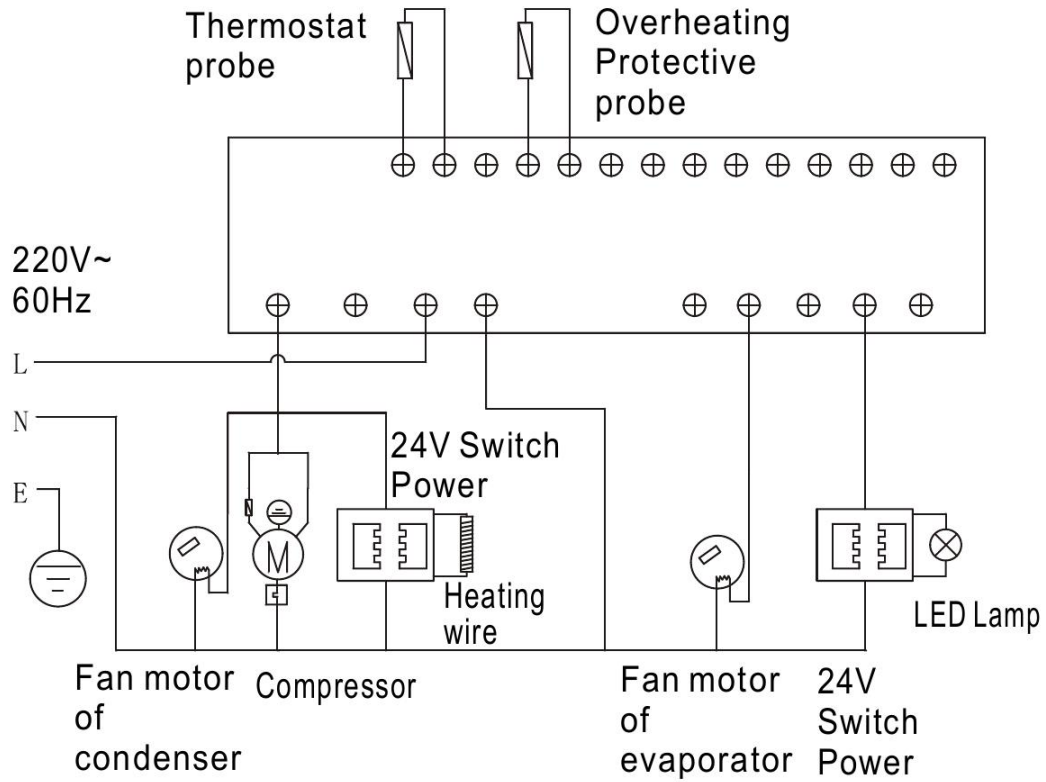
Principle of Refrigeration System

The principle of compression refrigeration consists of "compression", "condensation", "throttling" and "vaporization". The compression is undertaken by compressor, the condensation is completed by condenser, the throttling is executed by capillary and the vaporization is implemented by evaporator.

When the coolant is circulating in the closed refrigeration system, the compressor sucks coolant, which has absorbed heat in evaporator, the coolant becomes a high pressure and high temperature gas. In condenser, it dissipates heat in air, while the coolant is re-liquefied and throttled in capillary and then enters into evaporator with low pressure. The liquefied coolant quickly boils and vaporizes into gas when the pressure suddenly drops. Meanwhile, it absorbs heat inside the refrigerator. And the compressor sucks the low pressure and low temperature gaseous coolant — it is circulating in this way up to realization of intended refrigeration.



Circuit Diagram



Usage Instructions

Digital Temperature Controller

This part consists of display panel and main control board, using serial port signal line for data communication.

Icon Instructions

- **Defrosting icon:** lighting off — none; flickering — advance refrigeration before defrosting; lighting on — is defrosting.
- **Compressor icon:** lighting off — the compressor is not working; lighting on — the compressor is working.
- **LED light indicator:** indicates the LED light status.
- **Fan motor indicator:** fan motor working status indicator.
- **Heating element indicator:** heating element working indicator (no such function).
- **Cleaning function indicator:** flickering — cleaning function is working (no such function).
- **Energy saving indicator:** energy saving status indicator (no such function).
- **Locking indicator:** locking status indicator.

Power ON/OFF

Press and hold the power button; the system will power on after 1 second, showing current temperature. If the temperature is within compressor start working range, the compressor will set time to delay starting according to the setting value of internal parameter “E4”.

To turn off: under power-on condition, press and hold the power button; the system will be turned off after 1 second. After that, the power and settings buttons will flicker successively at an interval of 1 second, indicating the buttons are valid.

When pressing button correctly, the buzzer will beep.

Temperature Setting

Under power-on condition, press the SET button to start temperature setting. The “SET” icon and the data on display are flickering. Press up or down to increase or decrease the temperature at 0.5°C each time.

If you press and hold the up or down button, after 1 second the temperature setting value will be added or reduced by 0.5°C every 0.1 seconds. Temperature setting range: within the value range of internal parameter E1–E2. Factory default value sets according to device type.

If no press after 5 seconds, or press SET again within 5 seconds when setting, it will exit the temperature setting and shows normal display. The set value will be stored in battery-free memory.

Lamp Operation

Under power-on condition, press the lamp button shortly to turn ON/OFF the LED light. The LED icon will light on/off accordingly. LED light status will be stored in battery-free memory.

Locking / Unlocking Operations

Under power-on and unlocking status, press and hold the lock button long; the lock icon will light on after 5 seconds, meaning the system enters into locking status. In this case all other buttons are invalid except the lock and SET buttons.

Under locking status, press the lock button long and it will unlock after 5 seconds. The lock icon will be lighting off. Locking/Unlocking status will be stored in battery-free memory.

Defrost Manually Operation

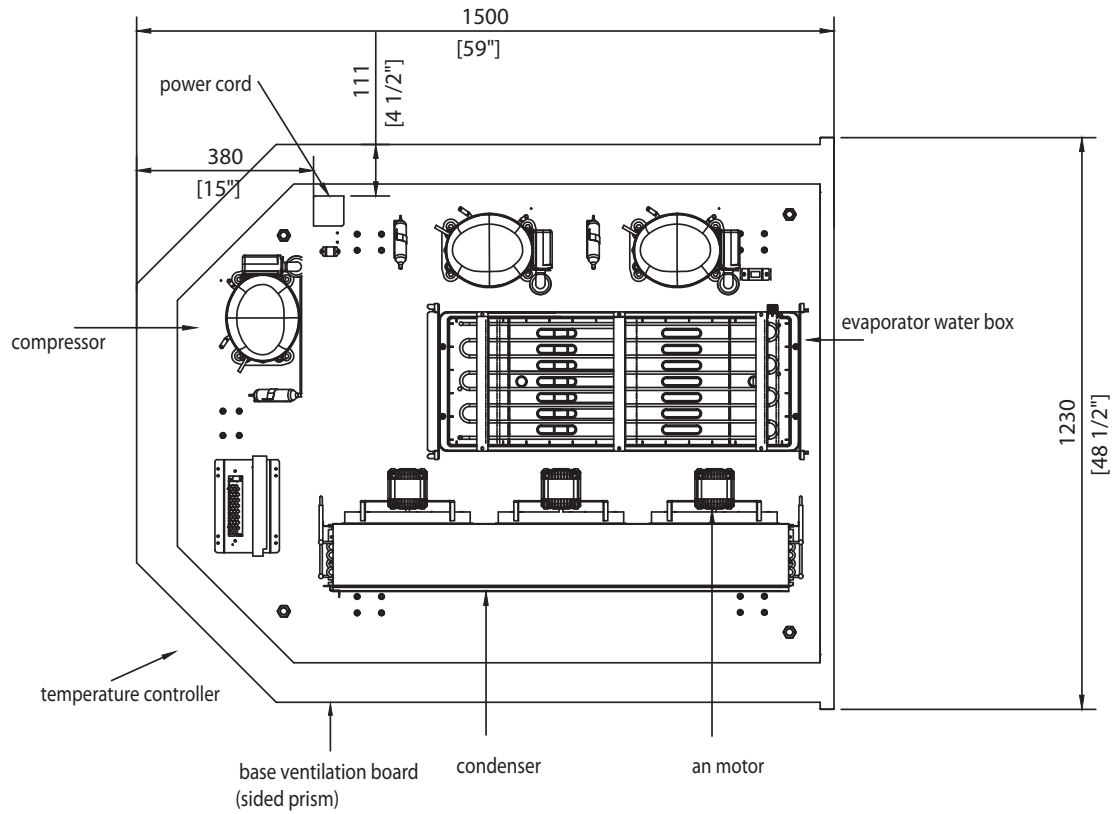
Under normal working status, press and hold the defrost button for 5 seconds; it enters into defrosting manually mode and the defrost icon will be lighting on. Under defrosting, press the defrost button long to exit the defrosting mode.

One-Button Reset Operation

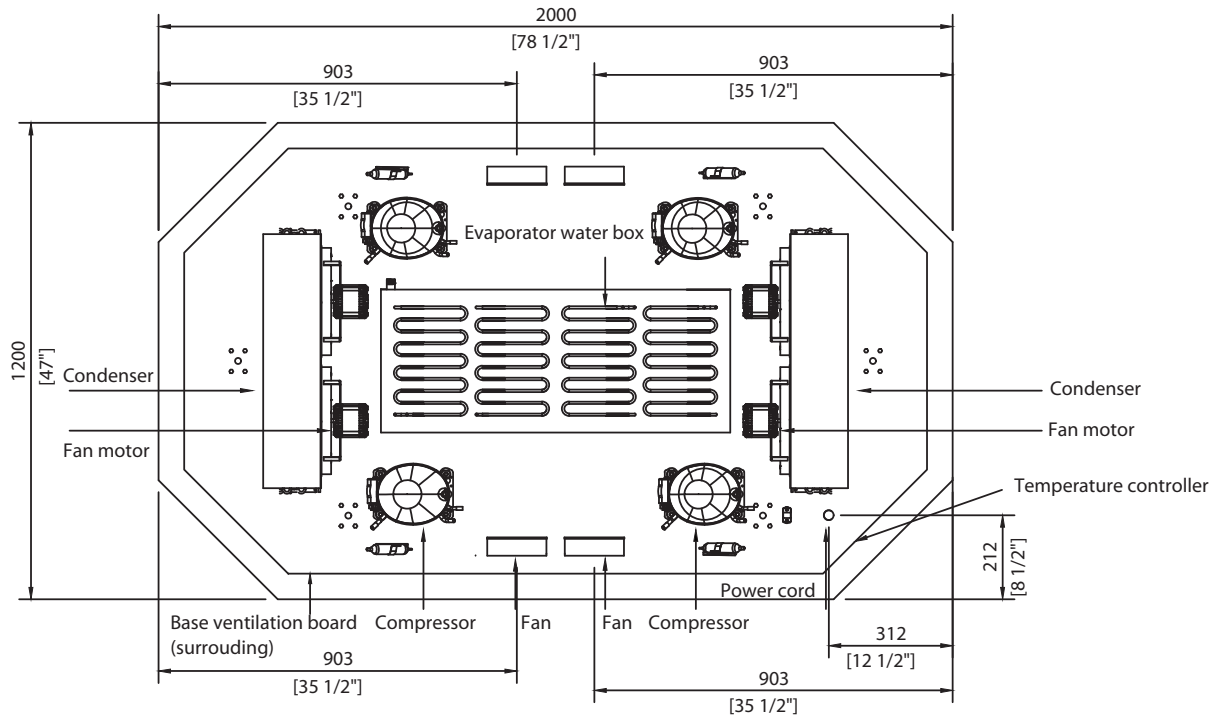
Under normal working status, press the up and down buttons together; the buzzer will beep after 6 seconds, indicating all parameters will return to factory default value. The display is flickering and indicates current temperature for 3 seconds, then returns to normal display.

The climatic class of the appliance is 3. The units are suggested to be used at 16°C–25°C (60.8°F–77°F) ambient temperature.

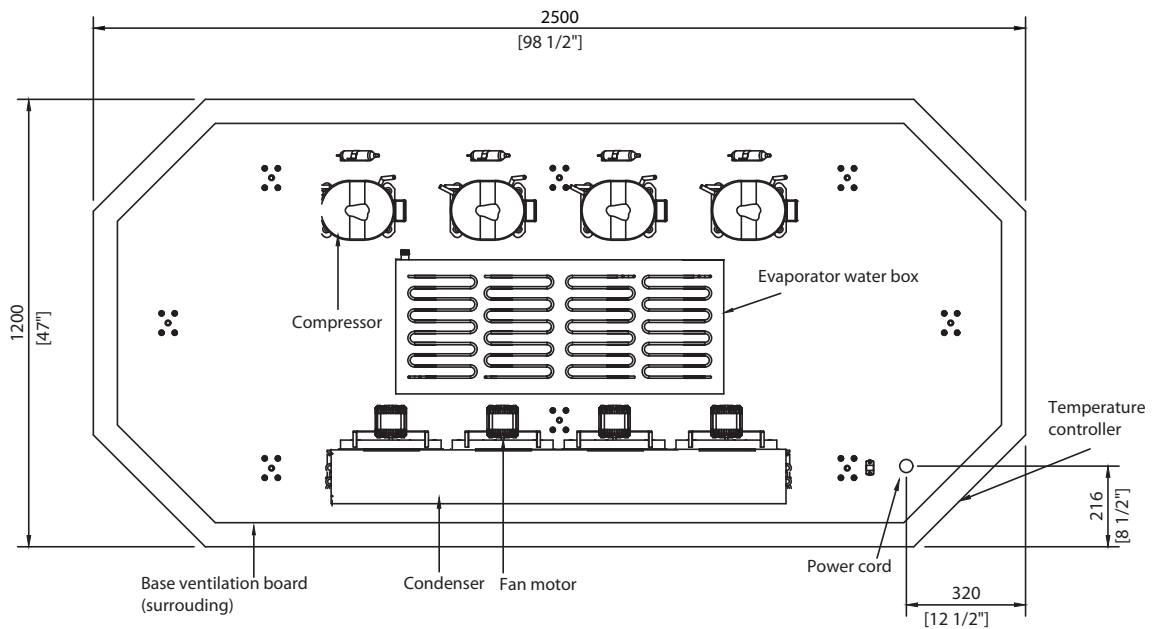
Layout Drawing HKMI-60-EC-S



Layout Drawing HKMI-80-S



Layout Drawing HKMI-100-S



One Year Parts & Labor Warranty*

MVP Group (HYDRA-KOOL) warrants to the original purchaser of every new HYDRA-KOOL refrigerated unit to be free from defects in material or workmanship, under normal and proper use and maintenance service as specified by MVP Group and upon proper installation and start-up in accordance with the instruction packet supplied with each unit. MVP Group obligation under this warranty is limited to a period of one (1) year from the date of original installation.

Any original part covered under this warranty that are determined by MVP Group to have been defective within one (1) year of original installation shall be limited to the repair or replacement, including the labor charge for defective parts or assemblies. The labor warranty shall include standard straight time labor charges only and reasonable travel time, as determined by MVP Group.

Warranty shall not cover standard wear and tear parts which include door gaskets, incandescent bulbs, LED lamps, or fluorescent bulbs. Warranty also does not cover issues caused by improper installation or lack of basic preventative maintenance which includes, but not limited to regular cleaning of condenser coils.

Additional Four Year Compressor Warranty

In addition to the one (1) year warranty stated above, MVP Group hereby warrants its hermetically and semi-hermetically sealed compressors to be free from defects in both material and workmanship under normal and proper use and maintenance service for a period of four (4) additional years from the date of original installation, but shall at no times exceed five (5) years after shipment from the manufacturer.

Compressors determined by MVP Group to have been defective within this extended time period will, at MVP Group option, be either repaired or replaced with a compressor or compressor parts of a similar capacity.

The four (4) year extended compressor warranty applies only to hermetically and semi-hermetically sealed parts of the compressor and does not apply to any other parts or components, including, but not limited to: cabinet, paint finish, temperature control, refrigerant, metering device, driers, motor starting equipment, fan assembly or any other electrical component, etc.

This part and labor warranty is the sole warranty policy offered by MVP Group. MVP Group sole obligation under this warranty is limited to either repair or replacement of parts and is subject to the limitations listed below.

1. MVP Group will bear no responsibility or liability for any equipment which has been misapplied, mishandled, misused, subjected to harsh chemical action, or external causes such as the use of extension cords, electrical power fluctuations, lack of proper maintenance, non-factory approved revisions or modifications, or equipment damaged by fire, flood, or other acts of God.
2. MVP Group will bear no responsibility for consequential loss or damages such as, including but not limited to, economic loss, profit loss, personal injury, property damage, damage during transit, losses or damages arising from food or product spoilage claims.
3. MVP Group shall bear no responsibility for parts or labor coverage for component failure or other damages resulting from improper usage, installation, or maintenance as described in the owner's manual.
4. Exceptions to 1 (1) year part warranty other than additional four (4) year compressor warranty: Light bulbs and door gaskets are limited to 90 day warranty period, parts only.
5. MVP Group equipment is intended for commercial use only and this warranty is void if the equipment is installed in other than commercial applications.
6. All other warranties, either express or implied, arising under law or equity or custom of the trade, including but not limited to, warranties or merchantability or fitness for a particular purpose, are excluded. MVP Group's liability on any claim, including but not limited to negligence, shall not exceed the price of the equipment that gives rise to the claim. HYDRA-KOOL is a registered trademark of MVP Group.



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AUGUST 2026

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