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GLOMAX[®]

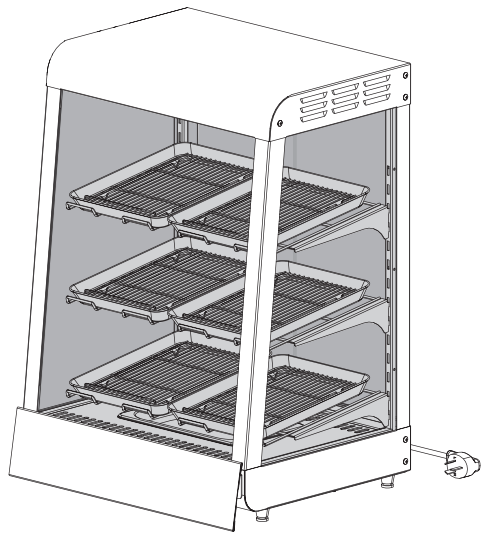
Heated Display Case

保温陈列柜

GMHD Series/系列

Installation and Operating Manual

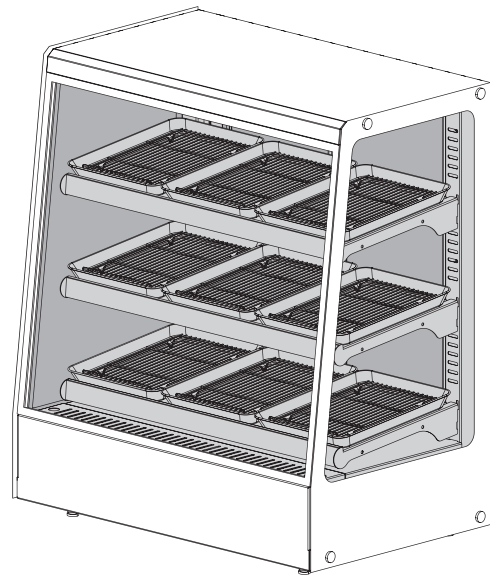
安装及操作手册



⚠ WARNING

Do not operate this equipment unless you have read and understood the contents of this manual! Failure to follow the instructions contained in this manual may result in serious injury or death. This manual contains important safety information concerning the maintenance, use, and operation of this product. If you're unable to understand the contents of this manual, please bring it to the attention of your supervisor. Keep this manual in a safe location for future reference.

English = p 2



⚠ 警告

请在认真阅读并理解本手册的内容后再操作本设备！不按照本手册中的说明操作可能会导致严重的人身伤亡事故。本手册中包含了有关本产品维护、使用和操作的重要安全事项。如果您不理解本手册的内容，请将本手册交给主管人员，以提请其注意。请将本手册妥善放置，以便参照。

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IMPORTANT OWNER INFORMATION

Record the model number, serial number, voltage, and purchase date of the unit in the spaces below (specification label located on the bottom of the unit). Please have this information available when calling Hatco for service assistance.

Model No. _____

Serial No. _____

Voltage _____

Date of Purchase _____

Business Hours: 9:00 AM to 6:00 PM (Beijing Time)

Hours: Monday through Friday

Telephone: (0512) 6732-5091

E-mail: infocn@hatcocorp.com

Additional information can be found by visiting our web sites:

www.hatcocorp.com or www.hatcocorp.cn

Register your unit!

Completing online warranty registration will prevent delay in obtaining warranty coverage. Access the Hatco website at www.hatcocorp.com, select the *Support* pull-down menu, and click on "Warranty".

INTRODUCTION

Hatco GLOMAX® Heated Display Cases are designed to hold prepared foods for prolonged periods of time while maintaining that "just made" quality. Hatco Heated Display Cases provide the best environment for food products by regulating the air temperature and providing humidity. The use of controlled heat maintains serving temperature and texture longer than conventional holding equipment.

Hatco GLOMAX Heated Display Cases are products of extensive research and field testing. The materials used were selected for maximum durability, attractive appearance, and optimum performance. Every unit is inspected and tested thoroughly prior to shipment.

This manual provides the installation, safety, and operating instructions for the Hatco Heated Display Case. Hatco recommends all installation, operating, and safety instructions appearing in this manual be read prior to installation or operation of the unit.

Safety information that appears in this manual is identified by the following signal word panels:

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.



Read the following important safety information before using this equipment to avoid serious injury or death and to avoid damage to equipment or property.

**WARNING****ELECTRIC SHOCK HAZARD:**

- Plug unit into a properly grounded electrical receptacle of the correct voltage, size, and plug configuration. If plug and receptacle do not match, contact a qualified electrician to determine and install the proper voltage and size electrical receptacle.
- Turn OFF power switch, unplug power cord, and allow unit to cool before performing any cleaning, adjustments, or maintenance.
- DO NOT submerge or saturate with water. Unit is not waterproof. Do not operate if unit has been submerged or saturated with water.
- Unit is not weatherproof. Locate unit indoors where ambient air temperature is a minimum of 21°C (70°F).
- Do not steam clean or use excessive water on unit.
- This unit is not “jet-proof” construction. Do not use jet-clean spray to clean this unit.
- Do not pull unit by power cord.
- Discontinue use if power cord is frayed or worn.
- Do not attempt to repair or replace a damaged power cord. The cord must be replaced by Hatco, an Authorized Hatco Service Agent, or a person with similar qualifications.
- This unit must be serviced by qualified personnel only. Service by unqualified personnel may lead to electric shock or burn.
- Do not clean unit when it is energized or hot.
- Do not allow liquids to spill into unit.
- Use only Genuine Hatco Replacement Parts when service is required. Failure to use Genuine Hatco Replacement Parts will void all warranties and may subject operators of the equipment to hazardous electrical voltage, resulting in electrical shock or burn. Genuine Hatco Replacement Parts are specified to operate safely in the environments in which they are used. Some aftermarket or generic replacement parts do not have the characteristics that will allow them to operate safely in Hatco equipment.

FIRE HAZARD: Locate unit a minimum of 25 mm (1”) from combustible walls and materials. If safe distances are not maintained, combustion or discoloration could occur.

**WARNING**

EXPLOSION HAZARD: Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

Do not place food product directly onto shelves. Food product must be wrapped, boxed, or on a food pan.

Make sure food product has been heated to the proper food-safe temperature before placing in unit. Failure to heat food product properly may result in serious health risks. This unit is for holding pre-heated food product only.

Hatco Corporation is not responsible for actual food product serving temperature. It is the responsibility of the user to ensure that food product is held and served at a safe temperature.

Make sure all operators have been instructed on the safe and proper use of the unit.

This unit is not intended for use by children or persons with reduced physical, sensory, or mental capabilities. Ensure proper supervision of children and keep them away from the unit.

This unit has no “user-serviceable” parts. If service is required on this unit, contact an Authorized Hatco Service Agent or contact Hatco at (0512) 6732-5091.

**CAUTION**

BURN HAZARD: Some exterior surfaces on unit will get hot. Use caution when touching these areas.

Locate unit at the proper counter height in an area that is convenient for use. The location should be level to prevent the unit or its contents from falling accidentally and strong enough to support the weight of the unit and contents.

NOTICE

Use non-abrasive cleaners only. Abrasive cleaners could scratch finish of unit, marring its appearance and making it susceptible to soil accumulation.

Submerging or saturating unit with water will damage the unit and void unit warranty.

Do not lay unit on the side with the control panel. Damage to the unit could occur.

Clean unit daily to avoid malfunctions and maintain sanitary operation.

Do not locate unit in area with excessive air movement around unit. Avoid areas that may be subject to active air movements or currents (i.e., near exhaust fans/hoods, air conditioning ducts, and exterior doors).

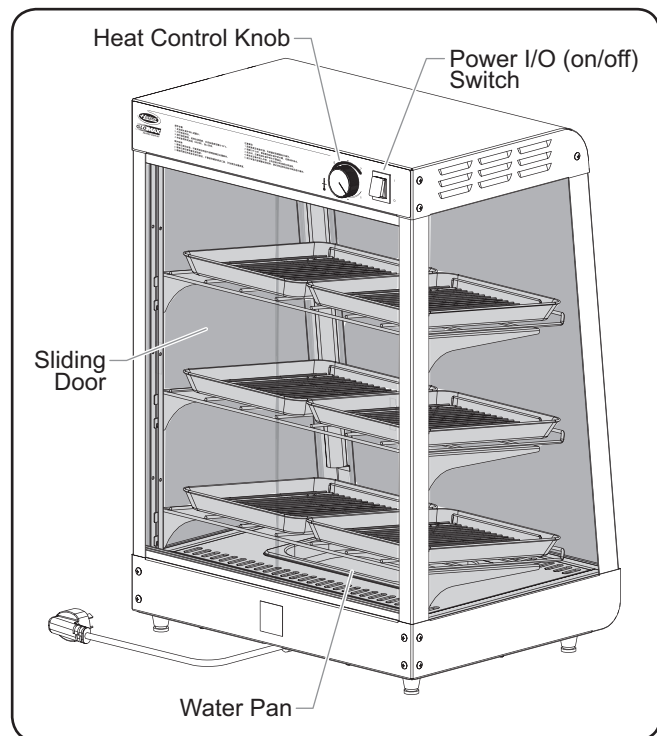
This unit is intended for commercial use only — NOT for household use.

All Models

All GLOMAX® Heated Display Cases are constructed of stainless steel and aluminum with rear glass sliding doors and full-view tempered glass on the front and sides. Heated Display Cases feature a thermostatically-controlled heated base, adjustable shelves, LED lights, front sign holder, 25 mm (1") adjustable legs, and a 1829 mm (6') power cord with plug.

GMHD-2PT

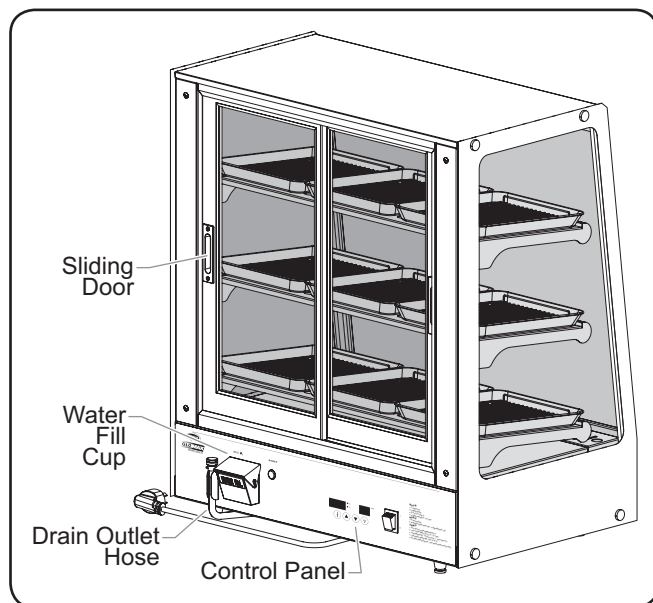
The GMHD-2PT models come with a water pan for humidity and can hold up to 6 food pans with trivets. Food pans are 245 mm x 185 mm (9-5/8" x 7-1/4"), measuring inside dimensions.



Model GMHD-2PT

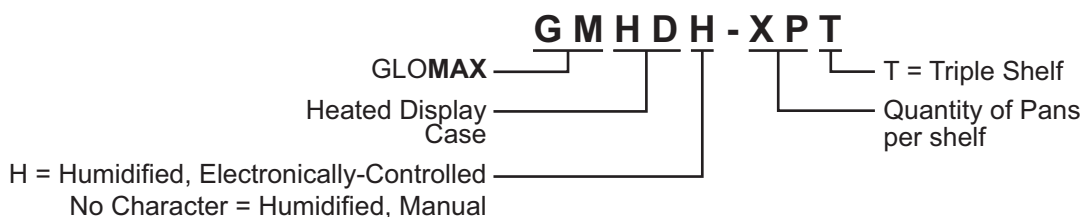
GMHDH-3PT

The GMHDH-3PT models come with an electronically-controlled humidity system and can hold up to 9 food pans with trivets. Food pans are 245 mm x 185 mm (9-5/8" x 7-1/4"), measuring inside dimensions.



Model GMHDH-3PT

MODEL DESIGNATION



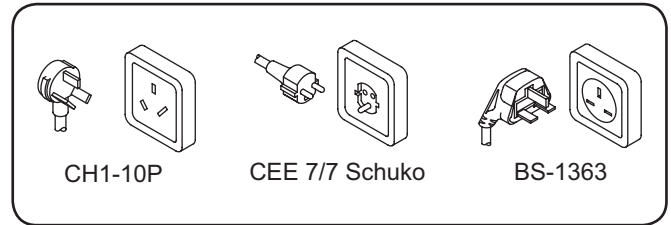
Plug Configurations

Units are supplied from the factory with an electrical cord and plug. Plugs are supplied according to the application.

⚠ WARNING

ELECTRIC SHOCK HAZARD: Plug unit into a properly grounded electrical receptacle of the correct voltage, size, and plug configuration. If plug and receptacle do not match, contact a qualified electrician to determine and install the proper voltage and size electrical receptacle.

NOTE: The specification label is located on the bottom of the unit. See label for serial number and verification of unit electrical information.



Plug Configurations

NOTE: Receptacle not supplied by Hatco.

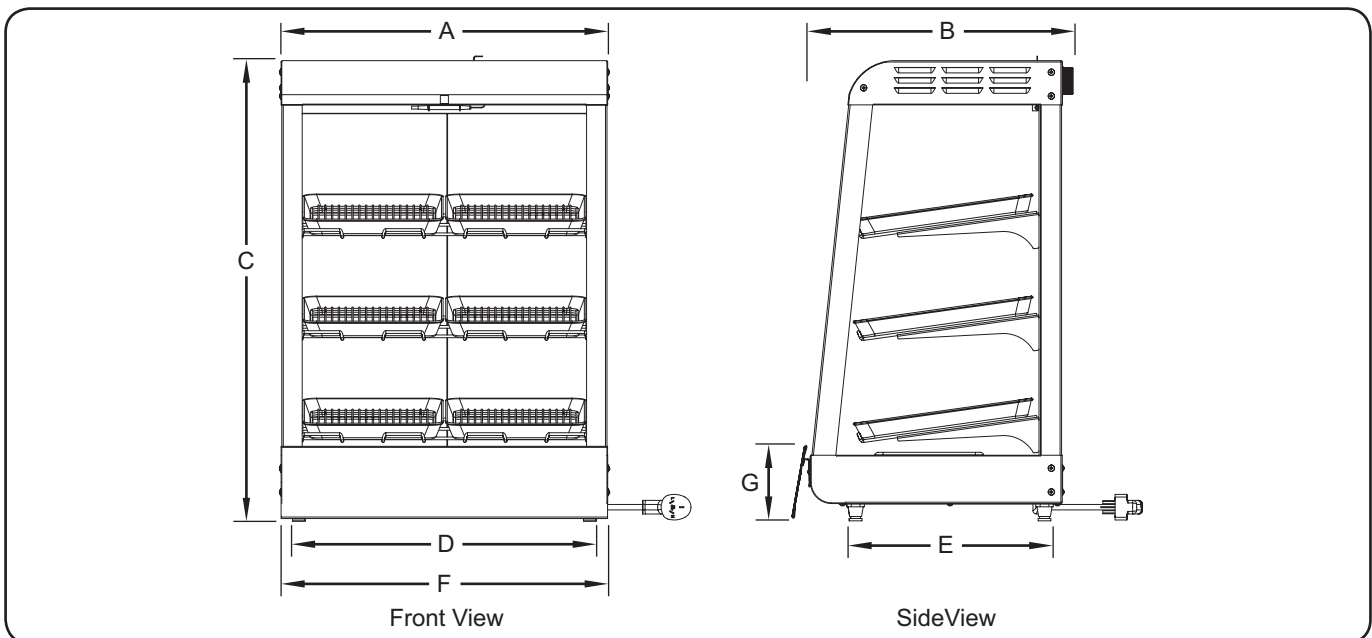
Electrical Rating Chart

Model	Voltage	Watts	Amps	Plug Configuration	Shipping Weight
GMHD-2PT	220	615	2.8	CH1-10P, CEE 7/7 Schuko, BS-1363	36 kg (79 lbs.)
	230	670	2.9		
	240	730	3.1		
GMHDDH-3PT	220	1280	5.8	CH1-10P, CEE 7/7 Schuko, BS-1363	73 kg (160 lbs.)
	230	1400	6.1		
	240	1525	6.3		

NOTE: Shipping weight includes packaging.

Dimensions

Model	Width (A)	Depth (B)	Height (C)	Footprint Width (D)	Footprint Depth (E)	Sign Holder Width (F)	Sign Holder Height (G)
GMHD-2PT	480 mm (18-15/16")	414 mm (16-5/16")	676 mm (26-5/8")	447 mm (17-5/8")	297 mm (11-13/16")	480 mm (18-15/16")	100 mm (4")
GMHDDH-3PT	670 mm (26-3/8")	462 mm (18-3/16")	757 mm (29-13/16")	533 mm (21")	349 mm (13-3/4")	650 mm (25-9/16")	140 mm (5-1/2")



General

GLOMAX® Heated Display Cases are shipped with most components pre-assembled. Care should be taken when unpacking shipping carton to avoid damage to unit and components enclosed.

⚠ WARNING

ELECTRIC SHOCK HAZARD: Unit is not weatherproof. Locate unit indoors where ambient air temperature is a minimum of 21°C (70°F).

FIRE HAZARD: Locate unit a minimum of 25 mm (1") from combustible walls and materials. If safe distances are not maintained, combustion or discoloration could occur.

⚠ CAUTION

Locate unit at proper counter height in an area that is convenient for use. Location should be level to prevent unit or its contents from falling accidentally and strong enough to support weight of unit and contents.

Transport unit in upright position only. Before moving or tipping unit, secure all glass surfaces, doors, and/or pans with tape, and drain water from humidity pan. Failure to do so may result in damage and injury.

NOTE: Unit must be transported in the upright position.

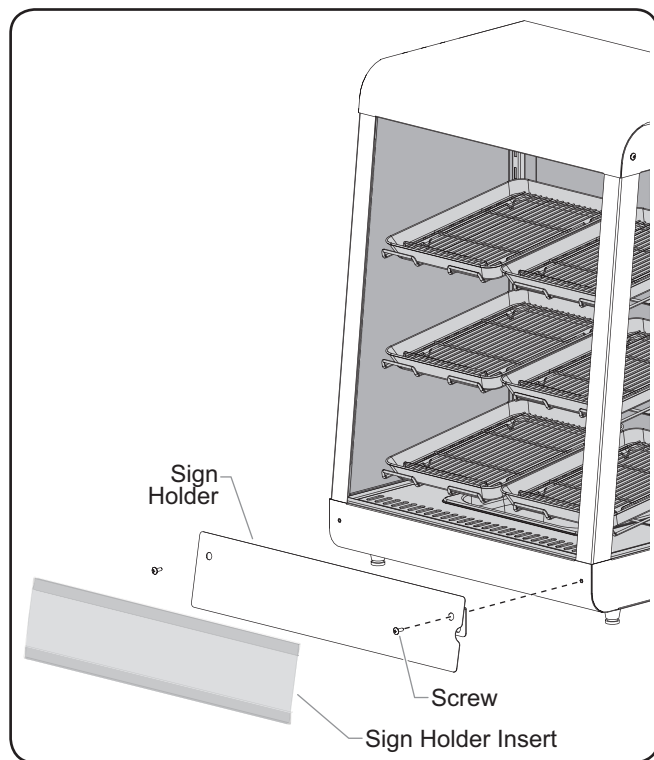
1. Remove the unit from the carton. Two people are required for this step.

NOTE: To prevent delay in obtaining warranty coverage, complete online warranty registration. See the IMPORTANT OWNER INFORMATION section for details.

2. Remove tape and protective packaging from all surfaces of the unit
3. Place the unit in the desired location.
 - Locate the unit in an area where the ambient air temperature is constant and a minimum of 21° C (70° F). Avoid areas that may be subject to active air movements or currents (i.e., near exhaust fans/hoods, air conditioning ducts, exterior doors).
 - Make sure the unit is at the proper counter height in an area convenient for use.
 - Make sure the countertop is level and strong enough to support the weight of the unit and food product.
 - Make sure all the feet on the bottom of the unit are positioned securely on the countertop.
4. Install the shelves, food pans, and trivets.

5. For GMHD models, install the front sign holder.

- a. Align the sign holder holes with the screw holes on the unit and secure using the supplied screws.
- b. Slide the sign holder insert onto the sign holder.



Installing the Front Sign Holder

General

Use the following procedures to operate the GLOMAX® Heated Display Case.

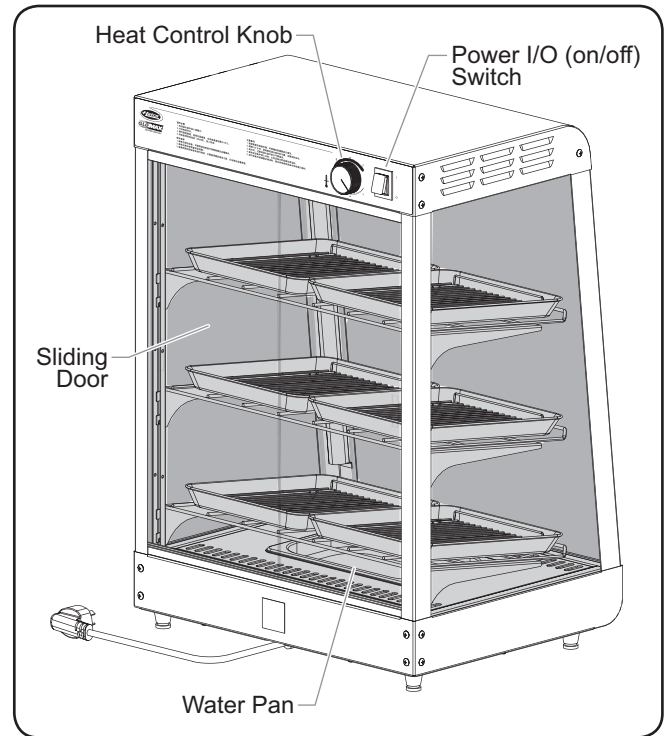
WARNING

Read all safety messages in the **IMPORTANT SAFETY INFORMATION** section before operating this equipment.

GMHD-2PT Models

Startup

1. Plug the unit into a properly grounded electrical receptacle of the correct voltage, size, and plug configuration. See the SPECIFICATIONS section for details.
2. For humidity, fill the water pan with water.
 - Periodically check the water level in the water pan to ensure constant humidity inside the unit. If the water level is low, refill the water pan.
 - If humidity is not desired, leave the water pan empty.
3. Move the Power I/O (on/off) switch to the I (on) position.
4. Turn the heat control knob to the desired temperature setting. The temperature range is from 28°C (82°F) to 85°C (185°F).
5. Allow unit 30 minutes to reach operating temperature.

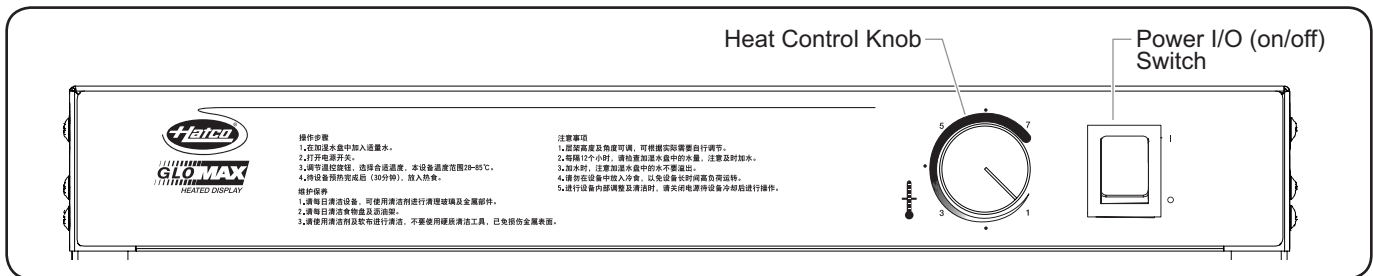


GMHD-2PT Model

Shutdown

Perform the following steps for shutdown of all models.

1. Move the Power I/O (on/off) switch on the base to the O (off) position.
2. Perform the “Daily Cleaning” procedure in the MAINTENANCE section of this manual.



Control Panel—GMHD-2PT Models

GMHDDH-3PT Models

Startup

1. Plug the unit into a properly grounded electrical receptacle of the correct voltage, size, and plug configuration. See the SPECIFICATIONS section for details.
2. Move the Power I/O (on/off) switch to the I (on) position.
 - The temperature display will show the current temperature of the cabinet and the humidity display will show the humidity of the cabinet.
 - If the water reservoir is low with water, the low water indicator light will illuminate and will buzz. Press the ▲ key or ▼ key to cancel the buzz.

NOTE: The temperature and humidity displays will show the software version at first before displaying the temperature and humidity of the cabinet.

3. Fill the water reservoir with clean water. To fill the reservoir:
 - a. Lift up the water fill cup cover and pull forward.
 - b. Slowly pour water into the water fill cup until the water fill cup is full.

IMPORTANT NOTE

When using distilled water, add one teaspoon of salt to the water reservoir during the initial water fill only. This will ensure proper operation of the water level sensors.

WARNING

ELECTRIC SHOCK HAZARD: Do not overfill water reservoir. Overfilling can cause electrical shock.

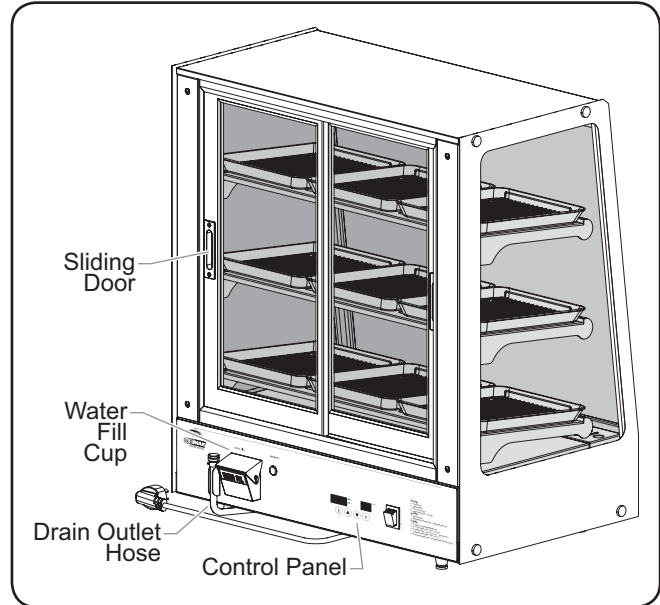
NOTE: The capacity of the water reservoir is 3.4 liters (3.5 quarts).

4. Set the air temperature to the desired temperature (refer to the "Setting the Air Temperature" procedure in this section).
5. Set the humidity to the desired level (refer to the "Setting the Humidity" procedure in this section).
6. Allow the unit 30 minutes to reach operating temperature before loading the cabinet with pre-heated food product.

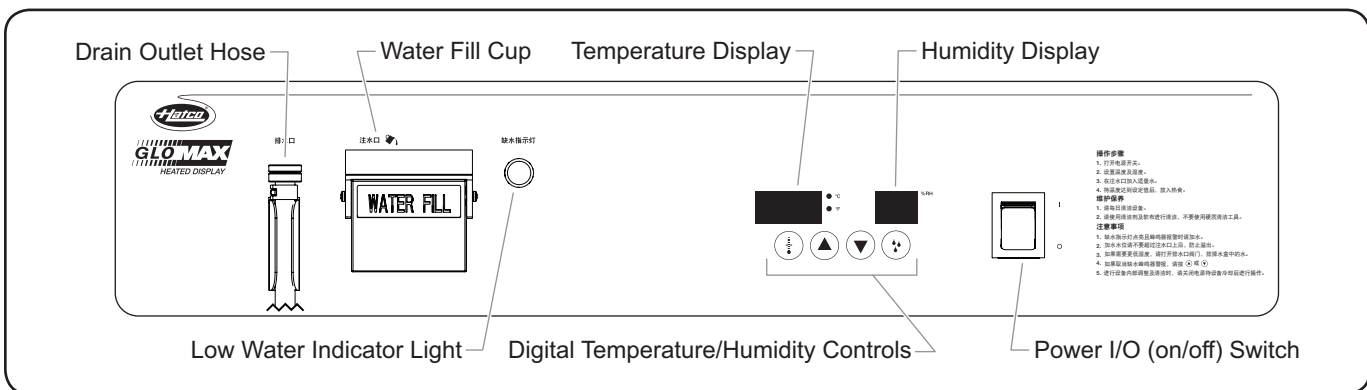
Shutdown

Perform the following steps for shutdown of all models.

1. Move the Power I/O (on/off) switch on the base to the O (off) position.
2. Perform the "Daily Cleaning" procedure in the MAINTENANCE section of this manual.









GMHDDH-3PT Model








Control Panel—GMHDDH-3PT Models


Setting the Air Temperature

1. Press the  key to enter temperature setting mode. The temperature display will show the current temperature setting.
2. Press the  key or  key to reach the desired temperature. The temperature range is 20°–85°C (68°–185°F) in single degree increments. The temperature setting will begin to increase or decrease rapidly when holding the  key or  key for 2 seconds.
3. Press the  key to save the setting or wait 5 seconds.

Setting the Humidity

1. Press the  key to enter humidity setting mode. The humidity display will flash the current relative humidity (RH) setting.
2. Press the  key or  key to reach the desired humidity. The humidity setting will begin to increase or decrease rapidly when holding the  key or  key for 2 seconds. Use the table below for reference.

Temperature (°C)	Humidity Range (%RH)
20-59	10-80
60-79	10-50
80-85	10-40

3. Press the  key to save the setting or wait 5 seconds.

NOTE: Temperature and humidity settings may vary depending upon product make-up and consistency. The temperature display shows the average temperature point inside the cabinet, not the product temperature.

The capacity of the water reservoir permits uninterrupted operation for approximately 3–6 hours, depending on the settings and how frequently the door is opened. **WARNING! ELECTRIC SHOCK HAZARD — Do not overfill water reservoir.**

General

The GLOMAX® Heated Display Case is designed for maximum durability and performance with minimum maintenance.



WARNING

ELECTRIC SHOCK HAZARD:

- Turn power switch OFF, unplug power cord, and allow unit to cool before performing any maintenance or cleaning.
- DO NOT submerge or saturate with water. Unit is not waterproof. Do not operate if unit has been submerged or saturated with water.
- Do not steam clean or use excessive water on unit.
- This unit is not “jet-proof” construction. Do not use jet-clean spray to clean this unit.
- Do not clean unit when it is energized or hot.
- Use only Genuine Hatco Replacement Parts when service is required. Failure to use Genuine Hatco Replacement Parts will void all warranties and may subject operators of the equipment to hazardous electrical voltage, resulting in electrical shock or burn. Genuine Hatco Replacement Parts are specified to operate safely in the environments in which they are used. Some aftermarket or generic replacement parts do not have the characteristics that will allow them to operate safely in Hatco equipment.

This unit has no “user-serviceable” parts. If service is required on this unit, contact an Authorized Hatco Service Agent or contact Hatco at (0512) 6732-5091.

Daily Cleaning

To preserve the finish of the unit as well as maintain performance, it is recommended that the unit be cleaned daily.

1. Turn off the unit, unplug the power cord, and allow the unit to cool.
2. Wipe down all exterior and interior surfaces. A non-abrasive cleaner may be used for difficult stains. Hard to reach areas should be cleaned using a small brush and mild soap.
 - Make sure to clean the interior of the unit thoroughly.
 - Rear doors can be removed by sliding each door to the center then lifting up and tilting out of the bottom channel.
 - Clean the front, side, and rear glass panels using glass cleaner and a damp, soft cloth or paper towel.
3. For GMHD models: Empty and clean the water pan using a damp cloth.
For GMHDH models: Refer to the “Removing Lime and Mineral Deposits” procedure in this section.
4. Wipe dry with a clean, non-abrasive cloth.

Removing Lime and Mineral Deposits (GMHDH Models)

Use the following procedure for periodic cleaning and de-liming of the water reservoir on GMHDH models.

NOTE: The lime and mineral content of the water used for daily operation will determine how often the deliming procedure must be performed.

NOTE: Perform this procedure when the unit will not be used for a period of time, such as the end of the day.

1. Move the Power I/O (on/off) switch to the O (off) position and unplug the power cord. Allow the unit to cool.
2. After the unit has cooled down, perform the “Draining the Water Reservoir” procedure in this section.
3. Fill the water reservoir with a mixture of 75% water and 25% white vinegar. Do not use flavored vinegar.
4. Plug in and turn on the unit.
5. Set both the air temperature and humidity to their highest settings and allow the unit to run for 30 minutes.
6. Move the Power I/O (on/off) switch to the O (off) position and unplug the power cord. Allow the unit to cool.
7. Perform the “Draining the Water Reservoir” procedure to empty the deliming solution from the water reservoir.
8. Continue to fill and drain the water reservoir with clean water until the deliming solution is rinsed through and the reservoir is clean.
9. Plug the unit into its power source and fill the reservoir as usual for daily operation using the procedure in the OPERATION section of this manual.

Draining the Water Reservoir (GMHDH Models)

The water reservoir must be drained prior to moving the cabinet as well as during the “Removing Lime and mineral Deposits” procedure.

1. Move the Power I/O (on/off) switch to the O (off) position, unplug the power cord, and allow the unit to cool.
2. Move the drain outlet hose into position to drain water into a pan or sink. **CAUTION! BURN HAZARD—Water in reservoir is hot during operation. Allow to cool before draining.**
3. Turn the drain plug cap counterclockwise to drain the reservoir.
4. Once the reservoir is empty, turn the drain plug cap clockwise onto the drain outlet hose to close the drain.
5. Insert the drain outlet hose back into place on back of unit.

NOTE: If the water used has an excessive amount of lime or mineral content, follow the “Removing Lime and Mineral Deposits” procedure for periodic cleaning and deliming of the water reservoir.

NOTE: Unit failure caused by liming or sediment buildup is not covered under warranty.

⚠ WARNING

This unit must be serviced by trained and qualified personnel only. Service by unqualified personnel may lead to electric shock or burn.

⚠ WARNING

ELECTRIC SHOCK HAZARD: Turn OFF power switch, unplug power cord, and allow unit to cool before performing any cleaning, adjustments, or maintenance.

Symptom	Probable Cause	Corrective Action
LED lights not working	LED lights are defective.	Contact an Authorized Hatco Service Agent or Hatco for assistance.
Unit is plugged in, but nothing works.	No power to unit.	Contact an Authorized Hatco Service Agent or Hatco for assistance.
	Power cord is damaged.	Contact an Authorized Hatco Service Agent or Hatco for assistance.
	Defective Power I/O (on/off) switch.	Contact an Authorized Hatco Service Agent or Hatco for assistance.
Unit is on, but not warming.	Incorrect voltage supplied to heating element.	Contact an Authorized Hatco Service Agent or Hatco for assistance.
	Heating element is defective.	Contact an Authorized Hatco Service Agent or Hatco for assistance.
Unit is heating, but is not producing humidity.	Water pan is low or empty.	Fill water pan with water.
	When using distilled water, no minerals are being sensed by low water probe.	On initial fill, add one teaspoon of salt to the water reservoir.
	Water heating element is defective.	Contact an Authorized Hatco Service Agent or Hatco for assistance.
Unit is not producing any "hot air" inside cabinet.	Incorrect voltage supplied to heating element.	Contact an Authorized Hatco Service Agent or Hatco for assistance.
	Heating element is defective.	Contact an Authorized Hatco Service Agent or Hatco for assistance.
	Blower motor is defective.	Contact an Authorized Hatco Service Agent or Hatco for assistance.

Error Codes

The following error codes may appear on the digital display to indicate an error in the operating condition of the unit. Contact an Authorized Hatco Service Agent or Hatco for assistance

Err 01 = No power to heating elements.

Err 02 = Power to one heating element only.

Err 03 = Incorrect voltage supplied to unit.

Err 04 = Temperature/humidity probe is disconnected or damaged.

Err 05 = The temperature inside cabinet is running too hot.
Turn OFF power to unit.

Troubleshooting Questions?

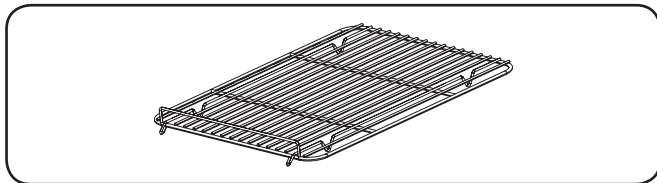
If you continue to have problems resolving an issue, please contact the nearest Authorized Hatco Service Agency or Hatco for assistance. To locate the nearest Service Agency, log onto the Hatco website at www.hatcocorp.com, select the *Support* pull-down menu, and click on "Find A Service Agent"; or contact the **Hatco Parts and Service Team** at:

Telephone: (0512) 6732-5091

e-mail: infocn@hatcocorp.com

OPTIONS AND ACCESSORIES**Trivets**

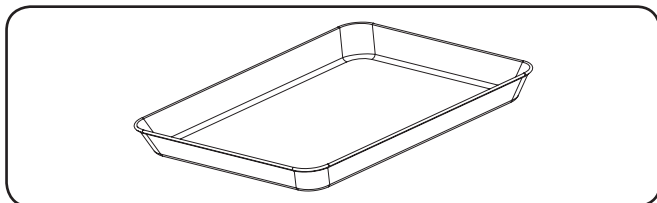
Trivets can be ordered as accessories.



Trivet

Food Pans

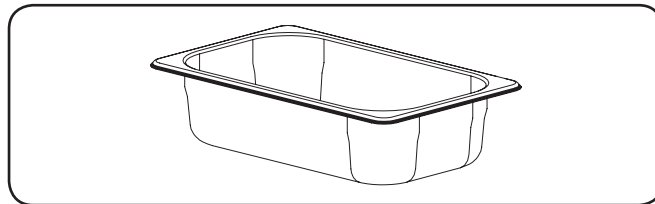
Food pans can be ordered as accessories.



Food Pan

Water Pans (GMHD Models Only)

Water pans can be ordered as accessories.



Water Pan

1. PRODUCT WARRANTY

Hatco warrants the products that it manufactures (the "Products") to be free from defects in materials and workmanship, under normal use and service, for a period of one (1) year from the date of purchase when installed and maintained in accordance with Hatco's written instructions or 18 months from the date of shipment from Hatco. Buyer must establish the Product's purchase date by registering the Product with Hatco or by other means satisfactory to Hatco in its sole discretion.

Hatco warrants the following Product components to be free from defects in materials and workmanship from the date of purchase (subject to the foregoing conditions) for the period(s) of time and on the conditions listed below:

a) Two (2) Year Parts Warranty:

Conveyor Toaster Elements (metal sheathed)
 Drawer Warmer Elements (metal sheathed)
 Drawer Warmer Drawer Rollers and Slides
 Strip Heater Elements (metal sheathed)
 Display Warmer Elements (metal sheathed air heating)
 Holding Case Elements (metal sheathed air heating)
 Heated Well Elements — HWB Series (metal sheathed)

b) Five (5) Year Parts Warranty:

3CS and FR Tanks

c) Ten (10) Year Parts Warranty:

Electric Booster Heater Tanks
 Gas Booster Heater Tanks

d) Ninety (90) Day Parts Warranty:

Replacement Parts

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT INFRINGEMENT. Without limiting the generality of the foregoing, SUCH WARRANTIES DO NOT COVER: Coated incandescent light bulbs, fluorescent lights, heat lamp bulbs, coated halogen light bulbs, halogen heat lamp bulbs, xenon light bulbs, LED light tubes, glass components, and fuses; Product failure in booster tank, fin tube heat exchanger, or other water heating equipment caused by liming, sediment buildup, chemical attack, or freezing; or Product misuse, tampering or misapplication, improper installation, or application of improper voltage.

2. LIMITATION OF REMEDIES AND DAMAGES

Hatco's liability and Buyer's exclusive remedy hereunder will be limited solely to replacement of part or Product using, at Hatco's option, new or refurbished parts or Product by Hatco or a Hatco-authorized service agency with respect to any claim made within the applicable warranty period referred to above. Hatco reserves the right to accept or reject any such claim in whole or in part. In the context of this Limited Warranty, "refurbished" means a part or Product that has been returned to its original specifications by Hatco or a Hatco-authorized service agency. Hatco will not accept the return of any Product without prior written approval from Hatco, and all such approved returns shall be made at Buyer's sole expense. HATCO WILL NOT BE LIABLE, UNDER ANY CIRCUMSTANCES, FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, INCLUDING BUT NOT LIMITED TO LABOR COSTS OR LOST PROFITS RESULTING FROM THE USE OF OR INABILITY TO USE THE PRODUCTS OR FROM THE PRODUCTS BEING INCORPORATED IN OR BECOMING A COMPONENT OF ANY OTHER PRODUCT OR GOODS.

SERVICE INFORMATION

The warranty on this Hatco unit is for one year from date of purchase or eighteen months from date of shipping from Hatco, whichever occurs first.

If you experience a problem with this unit during the warranty period, please do the following:

Contact Local Hatco Dealer

When contacting the Hatco dealer for service assistance, please supply the dealer with the following information to ensure prompt processing:

- Model of unit
- Serial number (located on the unit)
- Specific problem with the unit
- Date of purchase
- Name of business
- Shipping address
- Contact name and phone number

The Hatco dealer will do the following:

- Provide replacement part(s) as required
- Submit warranty claim to Hatco for processing

Non-Warranty Problems

If you experience a non-warranty problem that requires assistance, please contact the nearest Authorized Hatco Service Agency.

To locate the nearest Service Agency:

- call Hatco at (0512) 6732-5091
- e-mail Hatco at info@hatcocorp.com

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使用者重要注意事项

请在下列空白处记下本设备的型号、序列号、电压、和购买日期（规格标签位于设备底部）。致电 Hatco 要求服务帮助时请提供上述信息。

型号 _____

序列号 _____

电压 _____

购买日期 _____

工作时间： 北京时间 上午 9:00 – 下午 6:00

电话： (0512) 6732-5091

E-mail: infocn@hatcocorp.com

查询更多信息请访问我们的网站：www.hatcocorp.com
www.hatcocorp.cn

简介

赫高 GLOMAX® 保温陈列柜设计用于延长预制食品的存放期，同时维持食品“新鲜制作”时的品质。赫高保温陈列柜通过调节柜内气温及提供湿度，为食品提供最佳存放环境。与普通储物设备相比，加热控制设备可延长供应温度与食品口感的维持时间。

赫高 GLOMAX 保温陈列柜是经过大量研究和实地测试考验的产品。所用材料经久耐用，外型美观，性能优异。每件设备在发货前都经过严格的检验和测试。

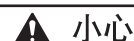
本手册包含有关赫高保温陈列柜安装、安全和操作的说明。在安装或操作设备之前，赫高建议您先阅读本手册中所有的安装、操作和安全说明。

本手册中的安全信息采用以下标志表示：



警告

“警告”表示有危险情况，如果不加以避免，则可能导致人身伤亡。



小心

“小心”表示有危险情况，如果不加以避免，则可能导致轻度或中度人身伤害。

注意

“注意”用于提示不会涉及人身伤害的操作。



使用本设备前，请仔细阅读下列重要安全事项，以免造成严重的人身伤亡及设备或财产的损坏。



警告

触电危险：

- 将设备插头妥善插入有接地的电气插座内，插入前请核对电压、规格和插头型式是否正确。如果插头和插座不匹配，请和有正式资格的电工联系，以确定 装电压和规格正确的电气插座。
- 在对设备进行维护、清洁或排除卡死故障前，请先拔下电源线，并使设备冷却。
- 禁止将设备浸入水中。本设备不防水。严禁使用被水浸过的设备。
- 本设备不具备耐候性。请将本设备置于室内，室内气温不得低于(21°C) 70°F。
- 不得用蒸汽或使用过多的水清洁设备。
- 本设备不具备防喷淋结构。请勿使用喷淋头清洁本设备。
- 请勿用电源线拖拽本设备。
- 如果电源线磨损或者破损，请停止使用。
- 如果电源线出现磨损，不要试图自行维修或更换。电源线必须由HATCO、HATCO授权服务机构或具备类似资质的人员进行更换以免发生危害。
- 本设备必须由具备相应资质的人员进行维修。由不具备相应资质的人员维修可能导致触电或起火。
- 请不要在设备通电或尚未冷却时进行清洁。
- 不要让液体溅入设备。
- 维修时只能使用正品HATCO更换零部件。未使用正品HATCO更换零部件会导致质保失效及造成设备操作人员受到有害电压威胁，并引起触电或着火。正品HATCO更换零部件可以保证使用环境下的安全生产，某些普通零部件不具备相关特性，从而无法保证在HATCO设备的安全使用。

火灾危险：将设备放置在距离可燃墙壁或材料至少1英寸(25 mm)的地方。如果不能保持安全距离，则可能引起褪色或燃烧。



警告

爆炸危险：请勿在设备或其它电器周围储存或使用汽油类或其它易燃气体和液体。

请勿将食品直接置于隔板上。必须将食品包装、放入盒中或置于食品盘上。

确保食品在放入设备前已被加热至适当的食品安全温度。未能正确加热食品可能会导致严重的健康风险。本设备仅限存放预热食品。

赫高公司对食品的实际供应温度不承担责任。而用户有责任确保食品在安全的温度下存放和供应。

确保所有操作人员受过安全正确使用设备的培训。

本设备未针对儿童和体质偏弱、过敏和精神失常人群使用做相应设计。确保对儿童进行适当看管，使他们远离设备。

本设备不含“用户维修”零部件。如需维修，请联系HATCO授权服务机构或HATCO服务部门，电话 (0512) 6732-5091；传真 (0512) 6732-5092。



小心

烫伤危险：本设备的某些外表面处温度较高，接触这些部位时请务必小心。

请将本设备置于台面高度适宜、且使用方便的位置。放置位置应水平，以防止本设备或其部件意外跌落，并有足够的强度支撑本设备及其部件的重量。

注意

只允许使用非摩擦性清洁剂。摩擦性清洁剂可能会刮伤本设备的表面处理层，破坏其外观，并易使表面积尘。

将设备浸入水中或设备中灌水会损坏设备及导致质保失效。

禁止将设备控制面板向下放置，否则会损坏设备。

设备需要每日清洁，以免出现故障，操作时请保持卫生。

请勿将设备置于气流过急的环境中。避免将设备放在空气流动或气流活跃的区域（即排气扇/排风罩、空调管和外门附近）。

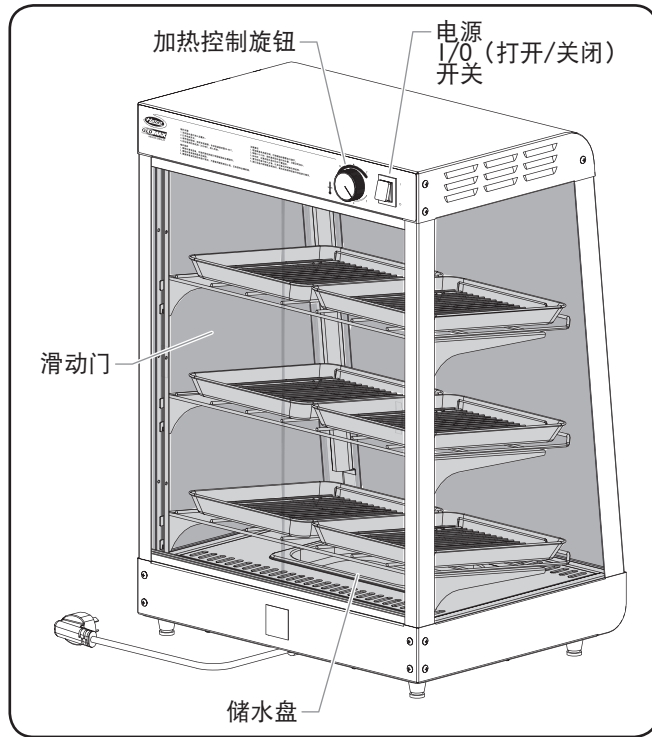
本设备仅适于商业用途 — 非家用设备。

所有型号

所有的 GLOMAX® 保温陈列柜均采用不锈钢和铝制造，设有玻璃滑动后门，前面和侧面选用全屏钢化玻璃。保温陈列柜配备一个恒温控制的加热底座，活动隔板、LED 灯、前标牌固定件、6 个带矮脚金属架的食品盘、调控湿度的储水盘、25 毫米（1 英寸）长的伸缩式脚架，以及一根 1829 毫米（6 英尺）长的带插头电源线。

GMHD-2PT

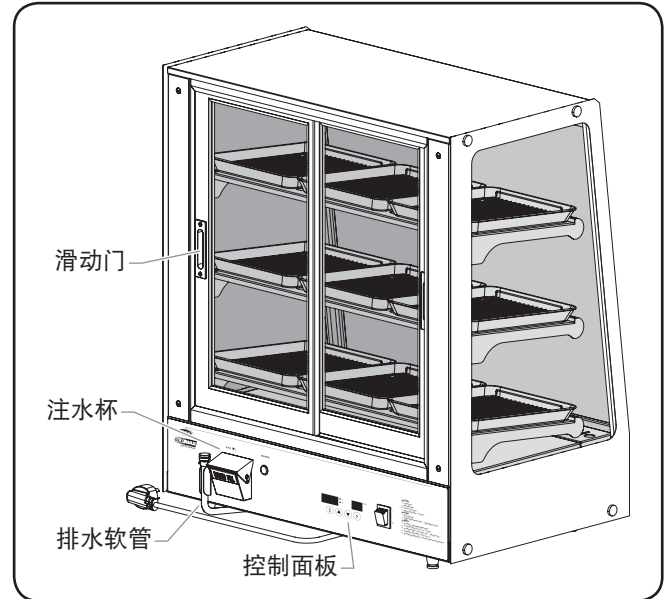
GMHD-2PT 型配有一个湿度储水盘，最多可容纳 6 个带沥油架的食物盘。食物盘内部测量大小为 245 mm x 185 mm (9-5/8" x 7-1/4")。



GMHD-2PT 型

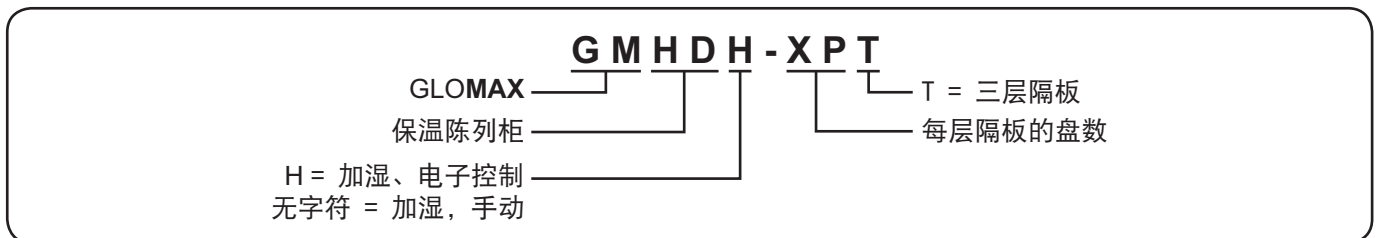
GMHDH-3PT

GMHDH-3PT 型配有一个电子控制湿度系统，最多可容纳 9 个带沥油架的食物盘。食物盘内部测量大小为 245 mm x 185 mm (9-5/8" x 7-1/4")。



GMHDH-3PT 型

型号命名



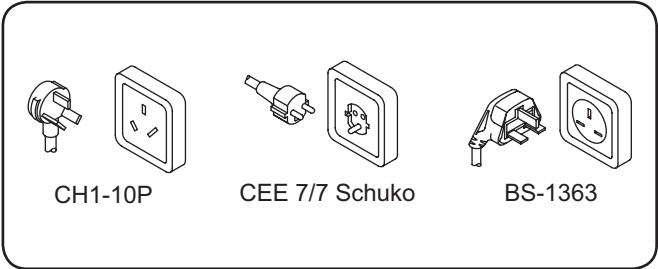
插头型式

设备出产时，随机配备电源线和插头。插头根据实际使用情况配备。



触电危险：将设备插头妥善插入有接地的电气插座内，插入前请核对电压、规格和插头型式是否正确。如果插头和插座不匹配，请和有正式资格的电工联系，以确定并安装电压和规格正确的电气插座。

注意：规格标签位于设备底部。查看标签上的序列号和设备电气参数信息。



插头型式

注意：HATCO不提供插座。

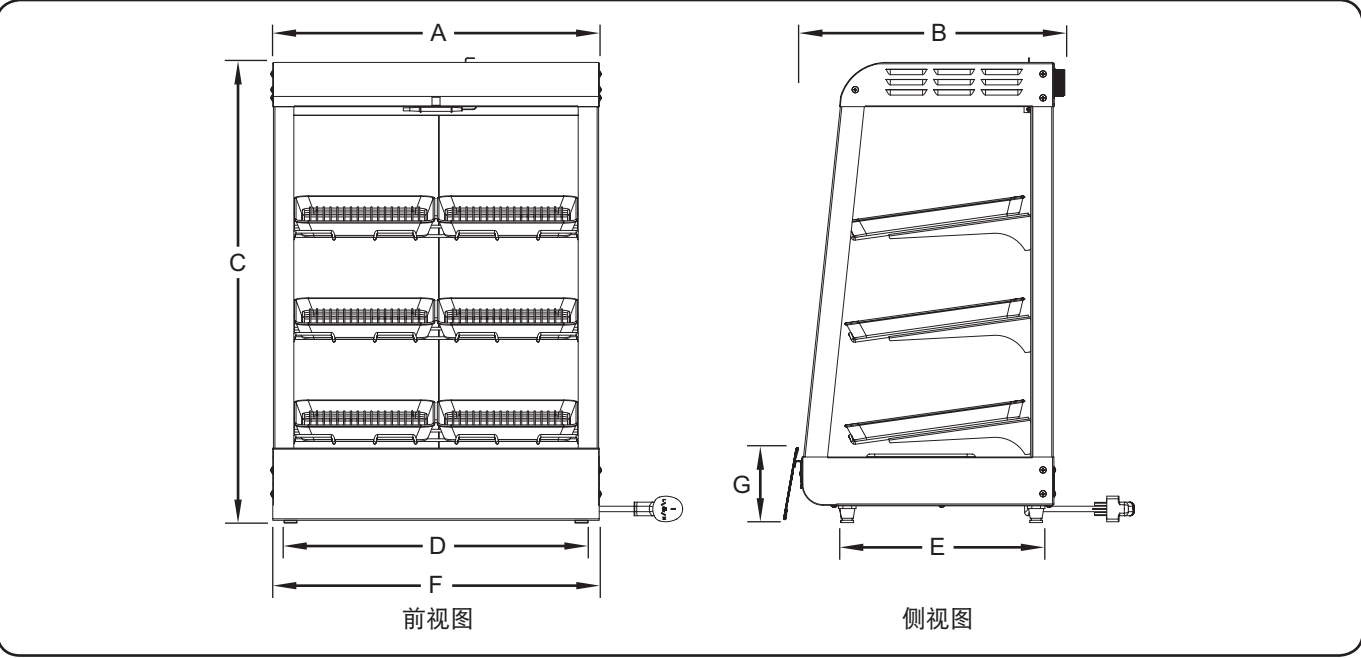
电气参数表

型号	电压	功率	电流	插头型式	出厂重量
GMHD-2PT	220	615	2.8	CH1-10P, CEE 7/7 Schuko, BS-1363	36 kg (79 lbs.)
	230	670	2.9		
	240	730	3.1		
GMHDDH-3PT	220	1280	5.8	CH1-10P, CEE 7/7 Schuko, BS-1363	73 kg (160 lbs.)
	230	1400	6.1		
	240	1525	6.3		

注意：出厂重量包括包装在内。

尺寸

型号	宽度 (A)	深度 (B)	高度 (C)	触地宽度 (D)	触地深度 (E)	标牌固定件宽度 (F)	标牌固定件高度 (G)
GMHD-2PT	480 mm (18-15/16")	414 mm (16-5/16")	676 mm (26-5/8")	447 mm (17-5/8")	297 mm (11-13/16")	480 mm (18-15/16")	100 mm (4")
GMHDDH-3PT	670 mm (26-3/8")	462 mm (18-3/16")	757 mm (29-13/16")	533 mm (21")	349 mm (13-3/4")	650 mm (25-9/16")	140 mm (5-1/2")



总则

GLOMAX® 保温陈列柜的大多数组件在运输时均已预先装配妥当。打开装运箱时要小心，以免损坏设备和封装组件。

警告

触电危险： 本设备不具备耐候性。请将本设备置于室内，室内气温不得低于(21°C) 70°F。

火灾危险： 将设备放置在距离可燃墙壁或材料至少1英寸 (25 mm) 的地方。如果不能保持安全距离，则可能引起褪色或燃烧。

小心

请将本设备置于台面高度适宜、且使用方便的位置。放置位置应水平，以防止本设备或其部件意外跌落，并有足够的强度支撑本设备及其部件的重量。

本设备仅限直立运输。移动或倾斜设备前，先用胶带安全固定所有的玻璃表面、柜门和/或盘子，并将储水盘中的水排净。否则可能会导致损坏和伤害。

注意： 设备必须直立运输。

1. 从装运箱中取出设备。操作此步骤需要两名人员。

注意： 为防止延误保修，请完成在线保修登记。请参阅“物主重要信息”部分，了解详情。

2. 去除设备所有表面的胶带及保护性包装。

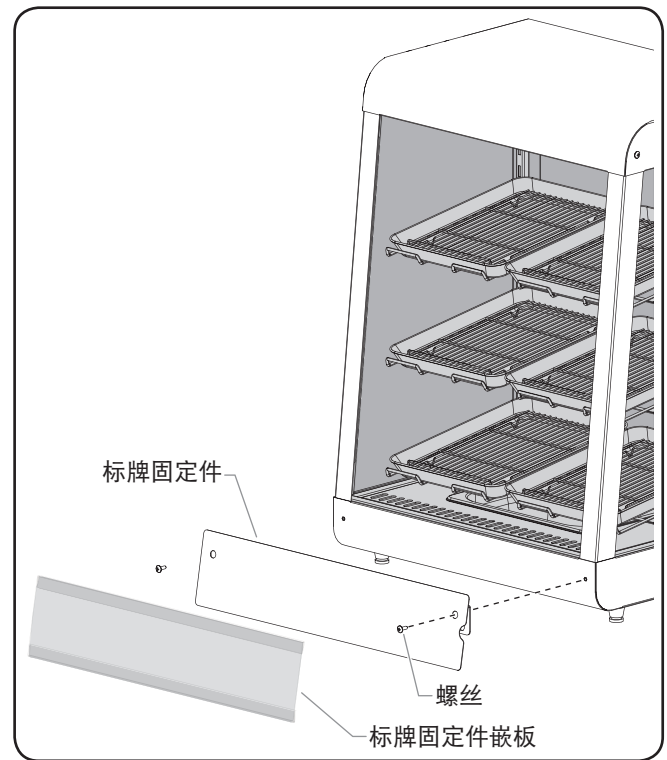
3. 将设备置于理想位置。

- 将设备置于环境气温恒定的地方，最低温度为 21°C (70°F)。避免将设备放在空气流动或气流活跃的区域（即排气扇/排风罩、空调管和外门附近）。
- 确保设备工作台高度合适，方便使用。
- 确保工作台面呈水平状态，且足够结实，能够承受本设备和存放食品的重量。
- 确保设备底部的所有基座均稳妥置于工作台面上。

4. 安装隔板、食品盘和矮脚金属盘。

5. 用于 GMHD 型： 安装前标牌固定件。

- a. 将设备上的标牌固定件孔与螺丝孔对齐，并使用提供的螺丝固定。
- b. 将标牌固定件嵌板插入标牌固定件。



安装前标牌固定件

总则

请按照以下程序操作 GLOMAX® 保温陈列柜。



操作此设备前， 请先阅读“重要安全信息”部分中的 所有安全信息。

GMHD-2PT 型

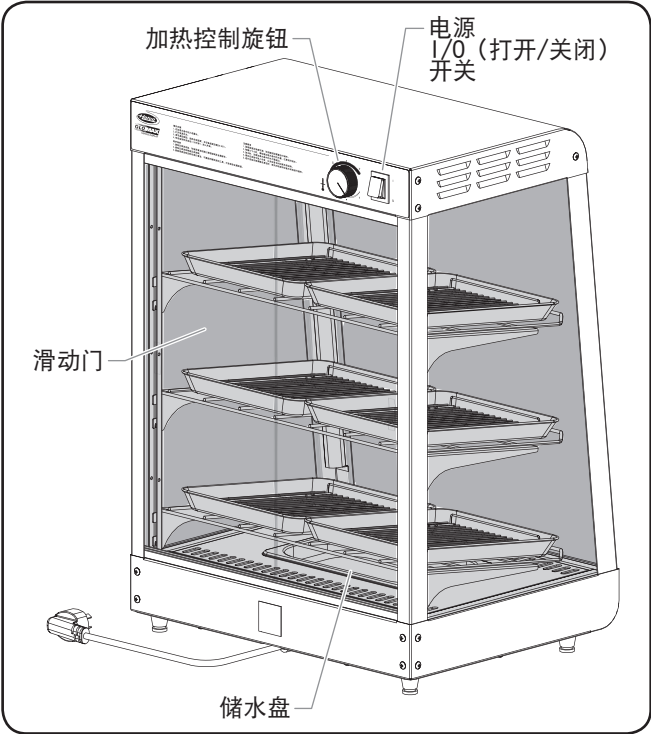
启动

1. 将设备插入电压、尺寸及插头配置均正确且妥当接地的电气插座中。 有关详细信息，请参见“规格”部分。
2. 为确保湿度，请在储水盘中加满水。
 - 定期查看储水盘中的水位，确保设备内部处于恒湿状态。 若水位过低，请为储水盘再次加满水。
 - 若不需要湿度，请倒空储水盘。
3. 将电源 I/O（打开/关闭）开关移至 I（打开）位置。
4. 将加热控制旋钮调至理想温度。 温度范围为 28°C (82°F) 至 85°C (185°F)。
5. 等待 30 分钟以使设备达到运行温度。

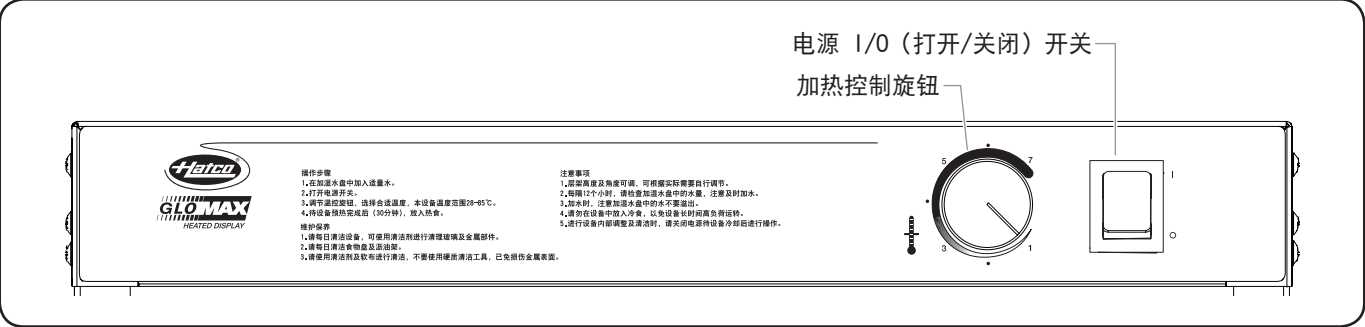
关闭

关闭所有型号设备时，请按照以下步骤操作。

1. 将底座电源 I/O（打开/关闭）开关移至 O（关闭）位置。
2. 执行本手册“维护”部分中的“每日清洁”程序。





GMHD-2PT 型



控制面板 GMHD-2PT 型

GMHDDH-3PT 型

启动

1. 将设备插入电压、尺寸及插头配置均正确且妥当接地的电气插座中。有关详细信息，请参见“规格”部分。
2. 将电源 I/O（打开/关闭）开关移至 I（打开）位置。
 - 温度显示器将显示保温柜的当前温度，湿度显示器将显示保温柜的湿度。
 - 如果水箱水位低，低水位指示灯将点亮并发出蜂鸣音。按下  键或  键取消蜂鸣音。

注意：温度和湿度显示器会先显示软件版本，然后再显示保温柜的温度和湿度。

3. 在水箱中加入干净的水。为水箱注水：
 - a. 提起注水杯盖并向前拉。
 - b. 慢慢将水倒入注水杯中，直到注水杯满。

重要提示

使用蒸馏水时，仅在初次注水时向水箱中加入一茶匙盐。这将确保水位传感器的正常运行。



警告

触电危险：水箱注水不要溢出。注水溢出可能会导致触电。

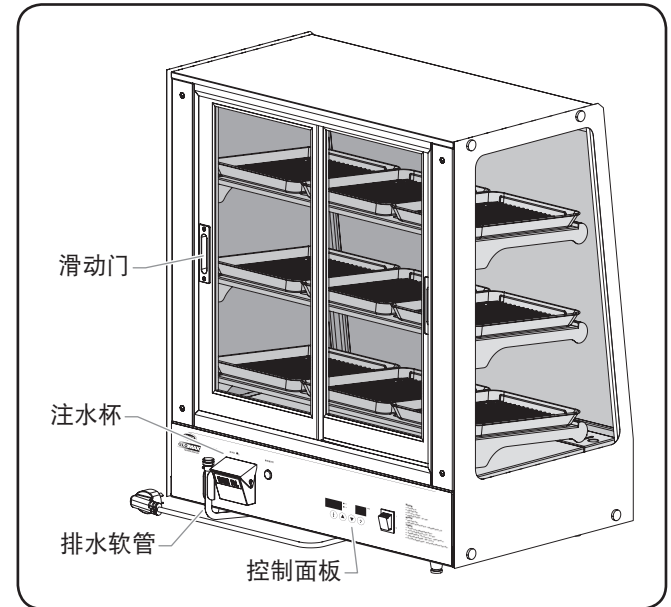
注意：水箱容量为 3.4 升（3.5 夸脱）。

4. 将空气温度设置为所需温度（请参阅本部分中的“设置空气温度”程序）。
5. 将湿度设置为所需的水平（请参阅本部分中的“设置湿度”程序）。
6. 等待 30 分钟以使设备达到运行温度。

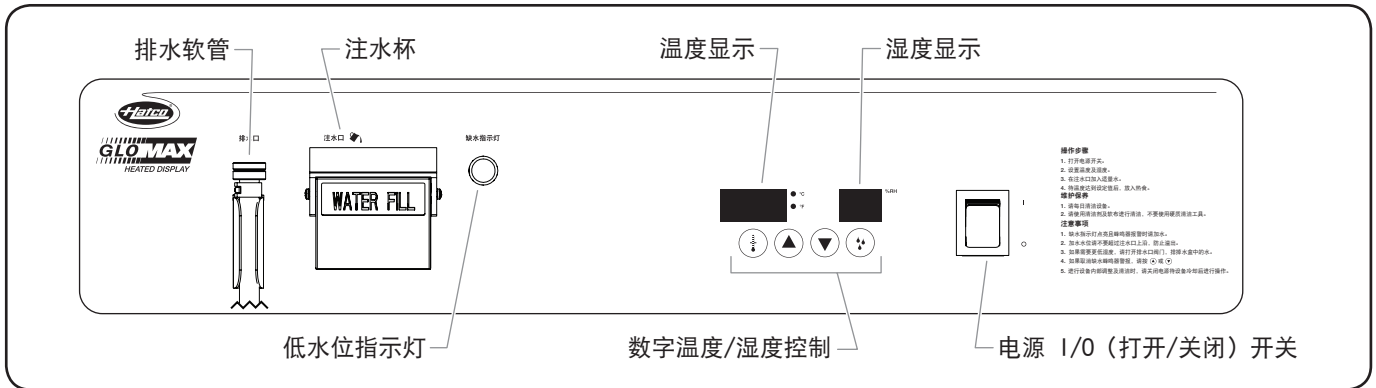
关闭

关闭所有型号设备时，请按照以下步骤操作。

1. 将底座电源 I/O（打开/关闭）开关移至 O（关闭）位置。
2. 执行本手册“维护”部分中的“每日清洁”程序。









GMHDDH-3PT 型








控制面板 GMHDDH-3PT 型


设置空气温度

- 1. 按下  键进入温度设置模式。 温度显示屏将显示当前的温度设置。
- 2. 按下  键或  键达到所需温度。 温度范围为 20-85°C (68-185°F)，按 1 度递增。 可快速升高或降低温度设置，方法是按住  键或  键 2 秒钟。
- 3. 按下  键或等待5秒钟以保存设置。

设置湿度

- 1. 按下  键进入湿度设置模式。 湿度显示将闪烁，显示当前相对湿度 (RH) 设置。
- 2. 按下  键或  键达到所需湿度。 可快速升高或降低湿度设置，方法是按住  键或  键 2 秒钟。 参考下表。

温度 (°C)	湿度范围 (% RH)
20-59	10-80
60-79	10-50
80-85	10-40

- 3. 按下  键或等待5秒钟以保存设置。

注意： 温度和湿度设置可能存在差异，具体取决于产品构造和一致性。 温度显示器会显示保温柜内的平均温度点，而不是产品温度。

水箱的容量允许不间断运行大约 3-6 小时，这取决于设置和门打开的频率。 **警告！ 触电危险 — 水箱注水不要溢出。**

总则

GLOMAX® 保温陈列柜设计经久耐用、性能优异且返修率低。

警告

触电危险：

- 在对设备进行维护、清洁或排除卡死故障前，请先拔下电源线，并使设备冷却。
- 禁止将设备浸入水中。本设备不防水。严禁使用被水浸过的设备。
- 不得用蒸汽或使用过多的水清洁设备。
- 本设备不具备防喷淋结构。请勿使用喷淋头清洁本设备。
- 请不要在设备通电或尚未冷却时进行清洁。
- 维修时只能使用正品HATCO更换零部件。未使用正品HATCO更换零部件会导致质保失效及造成设备操作人员受到有害电压威胁，并引起触电或着火。正品HATCO更换零部件可以保证使用环境下的安全生产，某些普通零部件不具备相关特性，从而无法保证在HATCO设备的安全使用。

本设备不含“用户维修”零部件。如需维修，请联系HATCO授权服务机构或HATCO服务部门，电话 (0512) 6732-5091；传真 (0512) 6732-5092。

日常清理

为保护设备表层并维护设备性能，建议每日清洁设备。

1. 关掉设备，断开电源线并让设备冷却。
2. 全面擦拭外部和内部表层。可使用无磨料清洁剂清除顽固污渍。应使用小刷子及温和皂清洁双手难以接触到的区域。
 - 确保全面清洁设备内部。
 - 可将每扇门滑动至中央，然后从底槽倾斜并抬起，以拆卸后门。
 - 使用玻璃清洁剂和湿润软布或纸巾清洁前面板、侧面板和玻璃后面板。
3. 用于 GMHD 型：倒空储水盘，并用湿布清洁。
用于 GMHDDH 型：请参阅本部分中的“清除石灰和矿物沉淀”程序。
4. 使用干净的软布擦干。

清除石灰和矿物沉淀（GMHDDH 型）

使用以下程序，定期对 GMHDDH 型上的水箱进行清洁和除钙。

注意：用于日常操作的水中石灰和矿物质的含量将决定除钙程序的执行频率。

注意：当设备在一段时间内不会被使用时（例如一天结束时），执行此程序。

1. 将电源 I/O（打开/关闭）开关移至 O（关闭）位置，拔下电源线。使设备冷却。
2. 设备冷却后，执行本部分中的“排空水箱”程序。
3. 用 75% 水和 25% 白醋的混合物注满水箱。请勿使用调味醋。
4. 插上电源线并打开设备。
5. 将空气温度和湿度设为最高设置，并让设备运行 30 分钟。
6. 将电源 I/O（打开/关闭）开关移至 O（关闭）位置，拔下电源线。使设备冷却。
7. 执行“排空水箱”程序，从水箱中排空除钙溶液。
8. 继续用清水注满水箱然后排空，直到除钙溶液被冲洗干净且水箱清洁为止。
9. 按照本手册“操作”部分中的程序，将装置插电，并像往常一样注满水箱以进行日常操作。

将水箱排水（GMHDDH 型）

在移动保温柜前以及在“清除石灰和矿物沉淀”过程中，都必须排空水箱。

1. 将电源 I/O（打开/关闭）开关移至 O（关闭）位置，拔下电源线，并使设备冷却。
2. 将排水软管移动就位，让水排入储水盘或水槽。小心！烫伤危险 - 操作过程中，水箱中的水很烫。排水前让其冷却。
3. 逆时针转动排水塞盖，以排空水箱。
4. 一旦水箱空了，顺时针转动排水软管上的排水塞盖，关闭排水。
5. 将排水软管插入设备背面的适当位置。

注意：如果使用的水含有过量的石灰或矿物质，则应遵照清除石灰和矿物沉淀程序，定期为水箱进行清理和除钙。

注意：因石灰或沉淀物堆积而导致的设备故障不在保修范围内。

**警告**

本设备只能由受过培训且具备相应资格的人员负责维修。若由不具备相应资格的人员维修，则可能引起触电或着火。

**警告**

触电危险：在对设备进行维护、清洁或排除卡死故障前，请先拔下电源线，并使设备冷却。

症状	可能原因	纠正措施
LED 灯不亮	LED 灯存在缺陷。	请联系授权服务机构或 Hatco 请求帮助。
设备已接入电源，但未正常工作。	设备没有通电。	请联系授权服务机构或 Hatco 请求帮助。
	电源线损坏。	请联系授权服务机构或 Hatco 请求帮助。
	电源 I/O（打开/关闭）开关存在缺陷。	请联系授权服务机构或 Hatco 请求帮助。
设备电源已打开，但不保温。	加热元件的供电电压不正确。	请联系授权服务机构或 Hatco 请求帮助。
	加热元件存在缺陷。	请联系授权服务机构或 Hatco 请求帮助。
设备可以加热，但无法产生湿度。	储水盘水位过低或缺水。	在储水盘中加满水。
	使用蒸馏水时，低水位探头没有探测到矿物质。	初次注水时，向水箱中加入一茶匙盐。
	水加热元件存在缺陷。	请联系授权服务机构或 Hatco 请求帮助。
保温柜内的设备未产生“热空气”。	加热元件的供电电压不正确。	请联系授权服务机构或 Hatco 请求帮助。
	加热元件存在缺陷。	请联系授权服务机构或 Hatco 请求帮助。
	鼓风机电机有故障。	请联系授权服务机构或 Hatco 请求帮助。

错误代码

数字显示器上可能会出现以下错误代码，以表明设备操作条件有错误。请联系经过授权的 Hatco 服务代理或 Hatco 以寻求帮助。

Err 01 = 加热元件没有电源。

Err 02 = 仅向一个加热元件供电。

Err 03 = 设备供电电压不正确。

Err 04 = 温度/湿度探头断开或损坏。

Err 05 = 保温柜内温度过高。关闭设备电源。

对问题进行故障针对？

如果您的困境在问题解决后仍无法解除，请联系距您最近的经过授权的服务代理或 Hatco 以寻求帮助。请查找最近的服务机构，请登录 Hatco 网站 www.hatcocorp.com，选择 支持 下拉菜单，然后单击“查找服务代理”；或者联系 Hatco 零部件和服务团队：

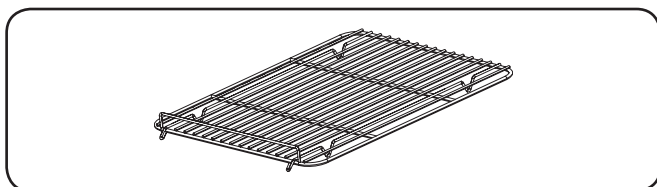
电话： (0512) 6732-5091

电子邮件： infocn@hatcocorp.com

选项和配件

矮脚金属盘

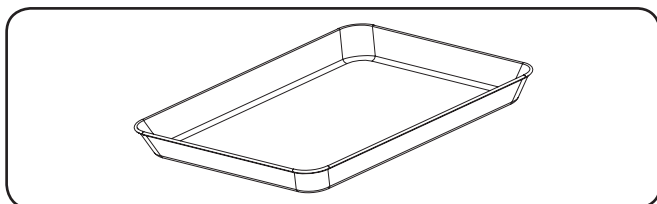
矮脚金属盘可作为配件订购。



矮脚金属盘

食品盘

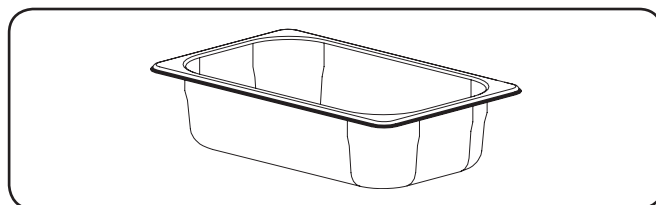
食品盘可作为配件订购。



食品盘

储水盘（仅限 GMHD 型）

储水盘可作为配件订购。



储水盘

1. 产品质保

赫高保证其生产的产品（下称“本产品”）不存在材料和工艺缺陷，在按照赫高的说明书安装和维护的情况下，自购买之日起1年内（用户必须书面且保养）或自赫高出厂之日起18个月内，设备可以保证正常工作。客户必须通过在赫高的官网上完成本产品的注册来确定产品的购买日期，或是经由赫高判断进而认可的其他方式。

赫高保证在下述时间内及条件下，下列部件自购买之日起（符合上述条件）起不存在材料和工艺缺陷（条件如下）：

a) 保修期为两（2）年的部件：

履带式烤面包机加热器（金属铠装）
保温抽屉加热器（金属铠装）
保温抽屉的抽屉滚轴和滑轨
S食品保温器加热器（金属铠装）
保温陈列柜加热元件（金属铠装、空气加热）
保温柜加热元件（金属铠装、空气加热）
保温汤锅加热元件—HWB系列（金属铠装）

b) 保修期为五（5）年的部件：

3CS和FR水箱

c) 保修期为十（10）年的部件：

电动瞬时加热器的水箱
煤气瞬时加热器的水箱

d) 保修期为九十（90）天的部件：

可更换零件

上述质保为赫高独家提供，并代替任何明示或隐含的质保，包括但不限于侵犯某个特定用途、专利或其他知识产权的适销性或实用性的银质质保。在没有特定说明的情况下，上述质保不包括：带涂层白炽灯泡、日光灯、保温加热灯泡、带涂层卤素灯泡、卤素加热灯泡、氙气灯泡、LED光管、玻璃组件和保险丝；由于结垢、化学腐蚀或严寒造成的瞬时加热器水箱、翅片管式换热器或其他水加热设备的故障；或产品使用不当、擅自改动或误用、安装不当，或电压不正确。

2. 修复和损坏限制

本文所述赫高责任以及对用户的独家修复补偿义务仅限于在上述保修期内提出索赔，由赫高或赫高授权的服务机构负责更换新零件或产品或对原零件或产品进行维修。赫高有权接受或拒绝任何此类全部或部分的索赔。在此有限质保规定中，“翻新”是指本产品的部分或整机已经被赫高或赫高授权的服务代理机构修复至原有的产品规格。未经赫高事先书面批准，赫高不接受任何产品的退回，经过赫高同意的产品退回，其相关费用均由用户独自承担。在任何情况下，对于因故或意外而引起的损失，包括但不限于人工费用，或因产品的使用，或不会用，或产品隶属或成为其他产品的一部分而造成的利润损失，赫高将不予负责。

服务信息

此款赫高设备的保修期为自购买之日起 1 年内或赫高发货之日起 18 个月内，以先发生的日期为准。

如果此设备在保修期内出现问题，请进行以下操作：

联系本地 Hatco 经销商

当联系 Hatco 经销商提供服务帮助时，请将以下信息提供给经销商，以确保得到及时处理：

- 设备型号
- 序列号（位于设备上）
- 设备的具体问题
- 购买日期
- 企业名称
- 发运地址
- 联系人姓名和电话号码

Hatco 经销商会为您：

- 提供所需要的更换零部件
- 向 Hatco 提出质保索赔以供处理

非质保期故障

如果您的设备在非质保期内出现故障需要提供帮助，请联系就近的HATCO授权服务机构。

查找就近的HATCO授权服务机构：

- 打(0512) 6732-5091电话联系HATCO服务部门。
- 发邮件到infocn@hatcocorp.com联系HATCO服务部门。

Register your unit online!

See IMPORTANT OWNER INFORMATION section for details.

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