



OPERATOR'S M A N U A L

HEATED EXPRESS CABINET

MODEL

HEC-103

HEC-104

HEC-123

HEC-124



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SECTION 1. INTRODUCTION

1-1. HEATED EXPRESS CABINET

The Henny Penny heated express cabinet is a basic unit of food processing equipment designed to hold hot packaged foods at proper temperature in commercial food operations. This cabinet maintains the quality of the hot foods while keeping a stable temperature.

NOTICE

As of August 16, 2005, the Waste Electrical and Electronic Equipment directive went into effect for the European Union. Our products have been evaluated to the WEEE directive. We have also reviewed our products to determine if they comply with the Restriction of Hazardous Substances directive (RoHS) and have redesigned our products as needed in order to comply. To continue compliance with these directives, this unit must not be disposed as unsorted municipal waste. For proper disposal, please contact your nearest Henny Penny distributor.



1-2. FEATURES

- Easily cleaned
- Electronically controlled temperature
- Lift-off shelves
- Easy access to electrical components
- Stainless steel construction
- Various power cord orientation

1-3. PROPER CARE

As in any unit of food service equipment, the Henny Penny heated express cabinet does require care and maintenance. Requirements for the maintenance and cleaning are contained in this manual and must become a regular part of the operation of the unit at all times.

1-4. ASSISTANCE

Should you require outside assistance, just call your local independent Henny Penny distributor in your area, or call Henny Penny Corp. 1-800-417-8405 toll free or 1-937-456-8405.

1-5. SAFETY

The only way to insure safe operation of the Henny Penny heated express cabinet is to fully understand the proper installation, operation, and maintenance procedures. The instructions in this manual have been prepared to aid you in learning the proper procedures. Where information is of particular importance or is safety related, the words NOTICE, CAUTION, or WARNING are used. Their usage is described below.



SAFETY ALERT SYMBOL is used with DANGER, WARNING, or CAUTION which indicates a personal injury type hazard.



NOTICE is used to highlight especially important information.



CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.



CAUTION used with the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



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

SECTION 2. INSTALLATION

2-1. INTRODUCTION

This section provides the installation instructions for the Henny Penny heated express cabinet.

NOTICE

Installation of this unit should be performed only by a qualified service technician.



Do not puncture the skin of the unit with drills or screws as component damage or electrical shock could result.

2-2. UNPACKING

The Henny Penny heated express cabinet has been tested, inspected, and expertly packed to insure arrival at its destination in the best possible condition. The unit has been bolted to wooden skid. All items have been packed and taped inside of the unit. The unit is then packed inside a triple wall corrugated carton with sufficient padding to withstand normal shipping treatment.

NOTICE

Any shipping damages should be noted in the presence of the delivery agent and signed prior to his or her departure.

To remove the Henny Penny cabinet from the carton, you should:

1. Carefully cut banding straps.
2. Open flaps of carton and remove packing.
3. Lift carton from unit.
4. Remove four bolts mounting the merchandiser to the skid.
5. Install optional legs on units if available.

CAUTION

To avoid breaking side glass or damaging unit, lay unit on its back, not on its side, when installing legs. Install legs before installing the shelves.

2-2. UNPACKING
(Continued)

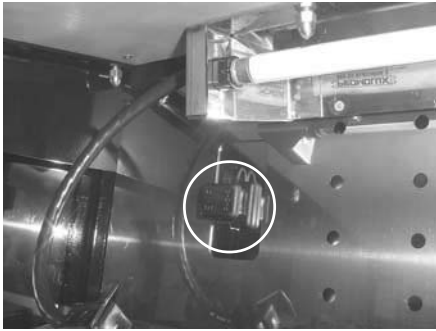


Figure 2-1

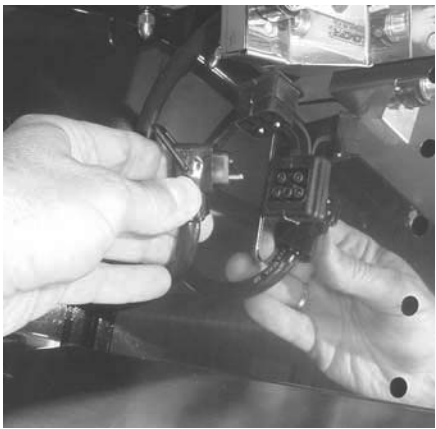


Figure 2-2



Figure 2-3

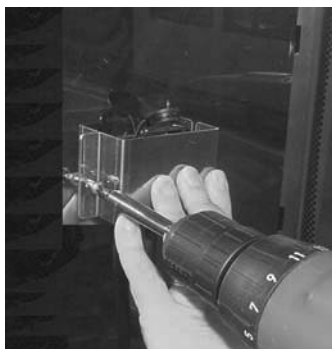


Figure 2-4

- 6A. Unpack and install shelves.
 - a. Hook the shelf brackets in the slots in the back, interior of unit. See next pages (Figure 2-5 & 2-6) for proper slot arrangement for either 2, 3 or 4 shelf units.
 - b. Pull the cover off the receptacles on each side of the shelves. Figure 2-1.
 - c. Line up the prongs on the plug with the holes in the receptacle, and firmly push the plugs into the receptacles. Figure 2-2.

NOTICE

The plugs must fit firmly into the receptacles for the lights and shelf heaters to operate.

- 6B. **CE UNITS**-Unpack and install shelves.
 - a. Hook the shelf brackets in the slots in the back, interior of unit. See next pages (Figure 2-5 & 2-6) for proper slot arrangement for either 2, 3 or 4 shelf units.
 - b. Using a Phillip's head screwdriver, remove the screw securing the shelf plug cover and remove the cover. Figure 2-3.
 - c. Pull the cover off the receptacles on each side of the shelves. Figure 2-1.
 - d. Line up the prongs on the plug with the holes in the receptacle, and firmly push the plugs into the receptacles. Figure 2-2.
 - e. Insert the tab on the shelf plug cover into the slot on the back panel and secure the cover in place using the screw previously removed. Figure 2-4.

7. Install fluorescent lamps. See Installing or Replacing Fluorescent Lamps Section.
8. Remove the bottom inserts and pull cardboard packing from around elements in bottom of unit.



To avoid fire, remove the 3 corrugated shipping supports located beneath these inserts, all visible packing material, tape, and the unpacking instructions, prior to operation.

9. Peel off any protective covering from the exterior of the cabinet.



Take care when moving the cabinet to prevent personal injury.

10. Once the shelves and shelf lamps are installed, and the packing material removed, the unit is ready for operation.

2-3. HEC 3 & 4 SHELF INSTALLATION INSTRUCTIONS

The drawing below is the slot arrangement (right and left) for the brackets of the shelves of the HEC. The lines point to the slot that the top prong of the bracket fits into.

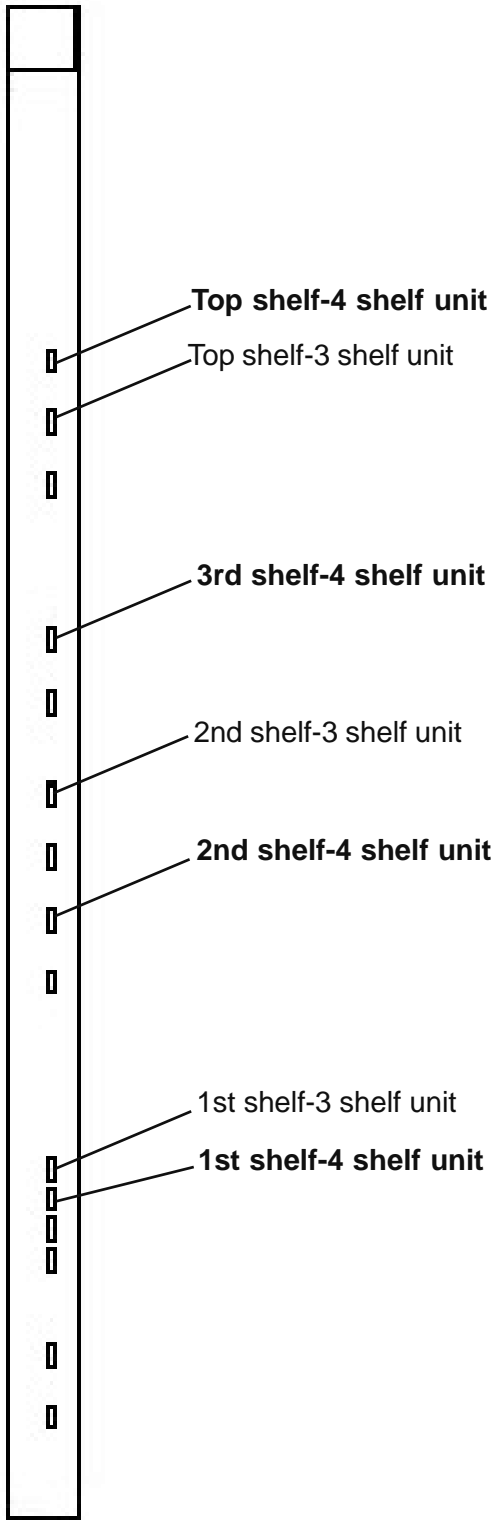


Figure 2-5

2-4. HEC 2 SHELF
INSTALLATION
INSTRUCTIONS

The drawing below is the slot arrangement (right and left) for the brackets of the shelves of the HEC. The lines point to the slot that the top prong of the bracket fits into.

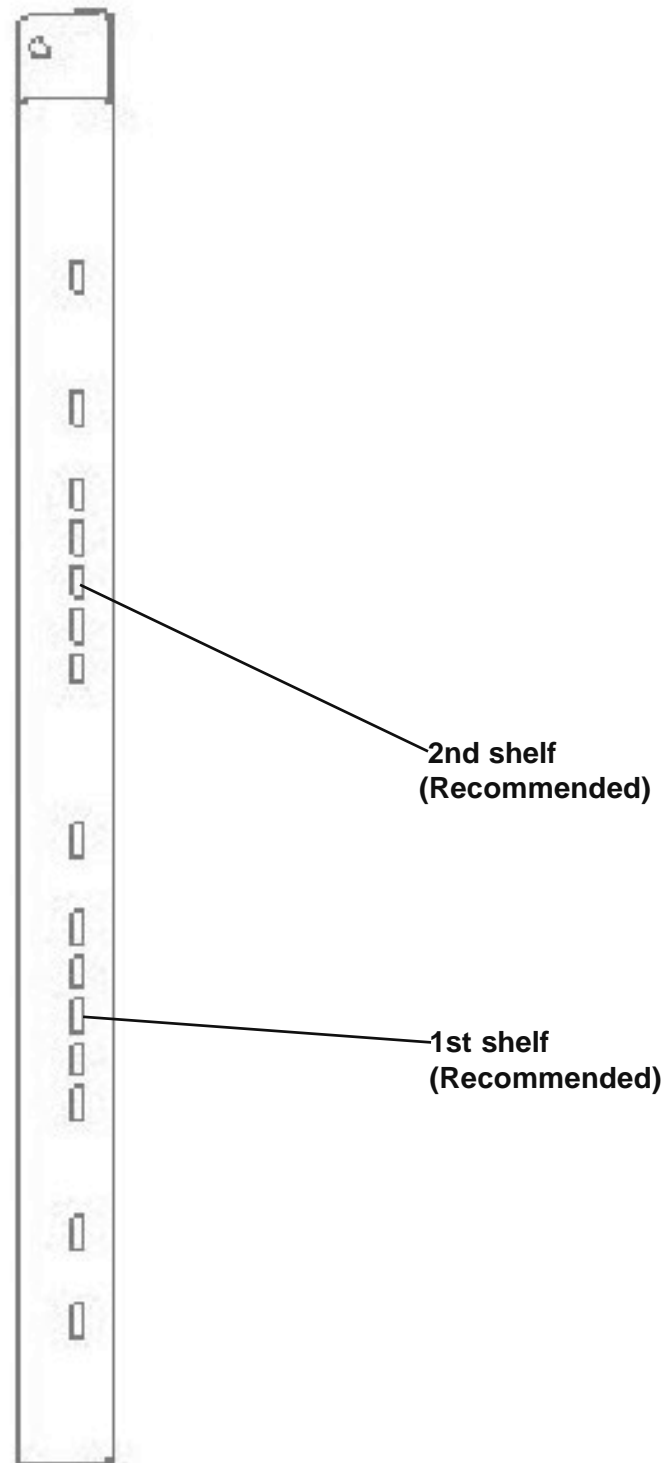


Figure 2-6

2-5. INSTALLING OR REPLACING FLUORESCENT LAMPS

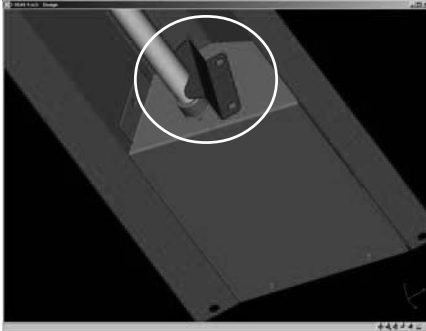


Figure 2-7

CAUTION

This lamp has been designed to resist breakage and must be replaced with Promolux part #12521C (Henny Penny part #BL01-019) in order to maintain compliance with NSF standards. Use max. 21 watt, T5 Fluorescent lamp.

1. Make sure electrical power is off to unit and allow unit to cool.



To avoid electrical shock and burns, disconnect power and allow unit to cool before changing lamp.

2. Using a Phillip's head screwdriver, remove the screws securing the lamp retainers and remove retainers. Figure 2-7.
3. If replacing a faulty lamp, carefully rotate lamp out of sockets.
4. Install new lamp by carefully rotating the lamp into the socket and snapping them into place. Repeat for each shelf.
5. Reinstall lamp retainers, restore power and unit is ready for operation.

2-6. LOCATION

The unit should be placed in an area where the unit can be loaded and unloaded easily. For proper operation, the cabinet must be level.

If the Henny Penny heated express cabinet does not have legs, level the unit and run a bead of silicone rubber (silicone or equivalent sealant must be a NSF listed material) around the perimeter of the unit, sealing it to the floor.

2-7. CABINET DIMENSIONS

	Width	Height	Depth
HEC-103	37 in. (940 mm)	71 in. (1803 mm)	31 in. (787 mm)
HEC-104	49 in. (1245 mm)	71 in. (1803 mm)	31 in. (787 mm)
		(77 in (1956 mm) w/legs)	
HEC-123	37 in. (940 mm)	56 in. (1422 mm)	31 in. (787 mm)
HEC-124	49 in. (1245 mm)	56 in. (1422 mm)	31 in. (787 mm)
		(62 in (1574 mm) w/legs)	

2-8. ELECTRICAL CONNECTION

The heated holding cabinet is available from the factory as a 208, 240, 220-240, or 380-415 VAC unit. The data plate, located on the control panel of the unit, specifies the correct electrical supply. The unit requires a grounded receptacle with a separate electrical line protected by a fuse or circuit breaker of the proper rating.



To avoid electrical shock, the cabinet must be adequately and safely grounded (earthed) according to local electrical codes, and this appliance must be equipped with an external circuit breaker which will disconnect all ungrounded (unearthed) conductors. The main power switch on this appliance does not disconnect all line conductors.

(FOR EQUIPMENT WITH CE MARK ONLY!)

To prevent electric shock hazard this appliance must be bonded to other appliances or touchable metal surfaces in close proximity to this appliance with an equipotential bonding conductor. This appliance is equipped with an equipotential lug for this purpose. The equipotential lug is marked with the following symbol



2-8. ELECTRICAL CONNECTION (Continued)

The tables below shows electrical ratings for the HEC-103,104, 123 & 124.

Model Number	Ph	Volts	Watts	Amps	Model Number	Ph	Volts	Watts	Amps
HEC-104 (3 shelf)	1	208	3366	16.2	HEC-103 (3 shelf)	1	208	2380	11.4
HEC-104 (3 shelf)	3	208	3366	11.8	HEC-103 (3 shelf)	3	208	2380	8.0
HEC-104 (3 shelf)	1	240	3366	14.0	HEC-103 (3 shelf)	1	240	2380	9.9
HEC-104 (3 shelf)	3	240	3366	10.2	HEC-103 (3 shelf)	3	240	2380	6.9
HEC-104 (3 shelf)	1	220-240	3092	13.4	HEC-103 (3 shelf)	1	220-240	2186	9.5
HEC-104 (3 shelf)	3	220-240	3092	9.8	HEC-103 (3 shelf)	3	220-240	2186	6.4
HEC-104 (3 shelf)	3	380-415	3092	6.6	HEC-103 (3 shelf)	3	380-415	2186	4.4
HEC-104 (4 shelf)	1	208	3931	18.9	HEC-103 (4 shelf)	1	208	2802	13.5
HEC-104 (4 shelf)	3	208	3931	11.9	HEC-103 (4 shelf)	3	208	2802	8.3
HEC-104 (4 shelf)	1	240	3931	16.4	HEC-103 (4 shelf)	1	240	2802	11.7
HEC-104 (4 shelf)	3	240	3931	10.3	HEC-103 (4 shelf)	3	240	2802	7.2
HEC-104 (4 shelf)	1	220-240	3612	15.7	HEC-103 (4 shelf)	1	220-240	2574	11.2
HEC-104 (4 shelf)	3	220-240	3612	9.9	HEC-103 (4 shelf)	3	220-240	2574	6.6
HEC-104 (4 shelf)	3	380-415	3612	6.6	HEC-103 (4 shelf)	3	380-415	2574	4.4
HEC-123 (2 shelf)	1	208	1958	9.5	HEC-124 (2 shelf)	1	208	2801	13.5
HEC-123 (2 shelf)	1	220-240	1958	8.2	HEC-124 (2 shelf)	1	220-240	2801	11.7
HEC-123 (2 shelf)	1	230	1802	7.8	HEC-124 (2 shelf)	1	230	2579	11.2
HEC-123 (2 shelf)	1	240	1958	8.2	HEC-124 (2 shelf)	1	240	2801	11.7

SECTION 3. OPERATION

3-1. INTRODUCTION






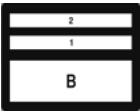

This section provides explanations of all controls, along with operating procedures and daily maintenance. Read the Introduction, Installation and Operation Sections before operating the unit.

NOTICE

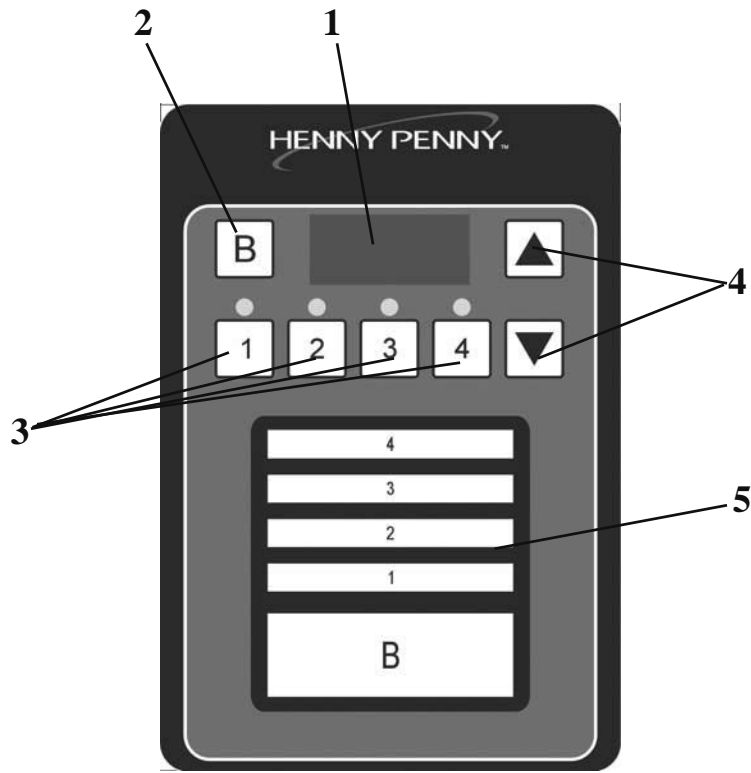
To access the controls, the bottom, front panel must be removed by pulling out on one corner of the panel and unsnapping it from the clips.

3-2. OPERATING CONTROLS

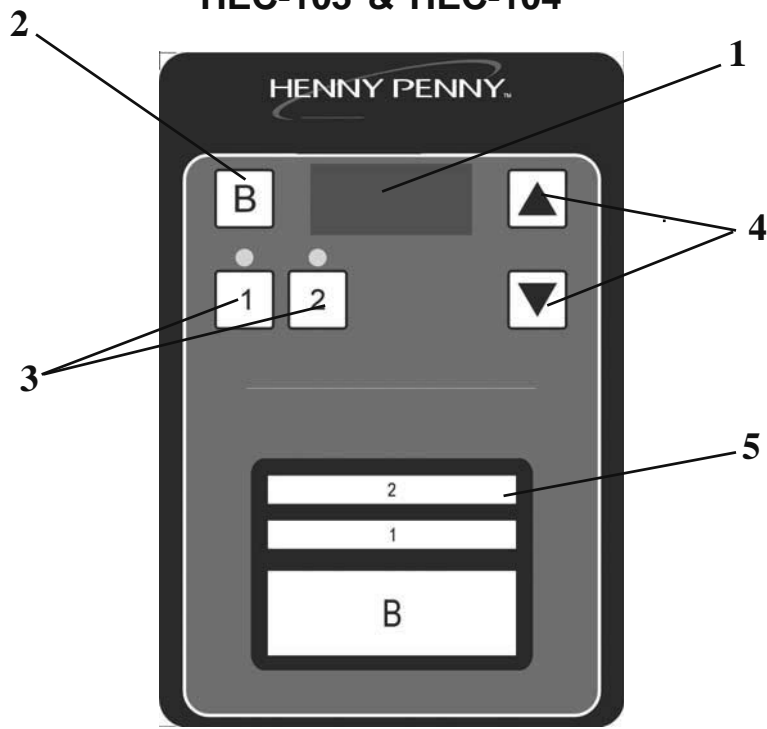
Refer to control diagrams on next page.

Figure No	Item No.	Description	Function
not shown	–	Power Switch	A rocker switch that sends electrical current to the operating components and lights when turned on
3-1	1	Digital Display	Shows the cabinet temperature, error codes and the selections in the Program Modes
3-1	2		Press to set the base heat value and to toggle through the Program Mode
3-1	3		<p>Lights when the heat is on for that particular shelf</p> <p>Press and hold to set the corresponding shelf heat value; ex: press and hold  to set the heat value of the bottom shelf;</p> <p>the shelf buttons, 1 to 4, are also used in the Special Program Mode to turn on and off the heat outputs for each shelf</p>
3-1	4		Used to set the heat values of the shelves and base; press and hold, while turning on power switch to enter the Special Program Mode; used in Special Program Mode to turn off and on heat outputs
3-1	5	 or 	A diagram showing which button controls which shelf; ex: press and hold  to set the bottom shelf heat value

3-2. OPERATING CONTROLS (Continued)



HEC-103 & HEC-104





HEC-123 & HEC-124

3-3. START UP

NOTICE

Before using the heated express cabinet, thoroughly clean the unit as described in the Cleaning Procedures Section of this manual.



1. Turn the power switch to the ON position.
2. If the heat values for the shelves have not been set, pull out on one corner of the bottom front panel, and unsnap it from the unit, to access the controls.

3. Press and hold  and use  to set the heat value of the base (or bottom) shelf. It can be set from “OFF” to a maximum of “10”.

NOTICE

The upper heat settings read 1, 2, 3, etc. 1 meaning the heat is on 10% of the time, 10 meaning the heat is on 100% of the time.

If “LOC” shows on the display when trying to set the heat value, this means the controls are locked and the settings cannot be changed until unlocked in the Special Program Mode.

4. Press and hold each shelf button and use  to set the heat value to each corresponding shelf. These can be set from “OFF” to a maximum of “10”. Use the diagram below the buttons to find which button controls which shelf. Ex: Press and hold  to set the bottom shelf heat value.

NOTICE

A heat value setting of 8 for the base and all shelves is recommended to hold prepackaged whole chickens .

5. Once controls are set, replace front panel by lining up the clips and firmly snapping them into place.
6. Allow unit to preheat for about 30 minutes.
7. Prepackaged food products can now be placed on each shelf.



All shelf surfaces are hot! Burns could result!

3-4. OPERATION WITH PRODUCT

1. Place the hot, prepackaged product on each of the shelves.

NOTICE

To assure quality product, stacking prepackaged product is not recommended.

2. Serve the product first that has been in the cabinet the longest.

3-5. CLEANING PROCEDURES

1. Turn power switch to OFF.
2. Disconnect the electrical supply to the cabinet.



To avoid burns, allow the unit to cool before cleaning.

3. Remove all product from the cabinet.
4. Wipe down each shelf with a soft cloth, soap and water.

NOTICE

The panels in the base (bottom shelf) can be removed for more thorough cleaning. The holes in the center of each panel help in removing the panels.

5. Clean the exterior of the cabinet with a damp cloth.
6. Clean the side glass with non-streaking liquid glass cleaner and a soft cloth.. Do not use abrasive cleaners.

CAUTION










Do not use steel wool, other abrasive cleaners or cleaners/sanitizers containing chlorine, bromine, iodine or ammonia chemicals, as these will deteriorate the stainless steel material, shorten the life of the unit, and scratch the black coating on the side glass.

Do not use a water jet (pressure sprayer) to clean the unit, or component failure could result.

7. Allow the unit to thoroughly dry before adding more product.

3-6. SPECIAL PROGRAM MODE

This mode includes the lock/unlock feature, control initialization, and testing of the outputs and displays.

1. Turn power switch off.
2. Press and hold both  while turning on the power switch.
3. “SP” shows in display, followed by “P=L” or P=U”.
4. Press  to either lock (“P=L”) or unlock (“P=U”) the controls.
Locking the controls will not allow anyone to change the heat values of the shelves until the controls are unlocked.
5. Press .
6. “In” shows in the display. Press and hold  or  to re-initialize the controls, which sets all heat settings to “OFF”, or to factory set parameters. “In3”, “In2”, “In1” shows in the display, followed by “In-”, “SyS”, indicating the initialization is complete.
7. Press .
8. “OP” shows in the display. Press and release the shelf buttons (1 to 4) to turn off and on the heat outputs for each shelf. Press and release  to turn off and on the base heat outputs. Press  to turn off and on all displays and outputs.
9. Press and hold  to exit Special Program Mode.

NOTICE

Press and hold  at any time to exit the Special Program Mode, or if no buttons are pressed for 1 minute, controls automatically exits Special Program Mode.

SECTION 4. TROUBLESHOOTING

4-1. TROUBLESHOOTING GUIDE

Problem	Cause	Correction
Product not holding temperature	<ul style="list-style-type: none"> • Heat value of shelf not high enough • Product not hot when placed in cabinet 	<ul style="list-style-type: none"> • Set higher heat value in controls • Place prepackaged <u>hot</u> food in cabinet
With power switch on, unit is completely inoperative (NO POWER)	<ul style="list-style-type: none"> • Open Circuit 	<ul style="list-style-type: none"> • Check to see that unit is plugged in. • Check breaker or fuse at supply box • Check control panel fuses behind bottom, front panel
Shelf won't heat	<ul style="list-style-type: none"> • Shelf not plugged into receptacle properly 	<ul style="list-style-type: none"> • Check that the shelf plug is firmly pushed into receptacle, in the interior of the cabinet
Light not lit	<ul style="list-style-type: none"> • Shelf not plugged into receptacle properly 	<ul style="list-style-type: none"> • Check that the shelf plug is firmly pushed into receptacle, in the interior of the unit

4-2. ERROR CODES

DISPLAY	CAUSE	PANEL BOARD CORRECTION
"E04"	Control board overheating	Turn unit off and back on; if display shows "E04", the control board is getting too hot; make sure unit is not overheating
"E41"	Memory scrambled	Turn unit off and back on; if "E41" still shows on display, have PC board initialized; if "E41" persists replace the control board

GLOSSARY

HENNY PENNY HOLDING CABINETS

air temperature probe	a round device located inside the cabinet that measures the inside air temperature and sends that information to the control panel
air ducts	channels attached to the sides, of the inside of the unit, that directs the hot air towards the bottom of the unit; usually has tray supports attached to them
concentration ring assembly	a metal assembly located in the water pan in the bottom of the unit that helps keep an even humidity level inside the cabinet
clean water pan setpoint	a preset temperature at which a sensor warns the operator that the water pan has excessive lime deposits
control panel	the components that control the operating systems of the unit; the panel is located on the top front surface of the cabinet
deliming agent	a cleaner used to remove lime deposits in the water pan
drain valve	a device that lets the water drain from the water pan into a shallow pan on the floor; the valve should be closed while the unit is in use if humidity is desired
float switch	a device that senses low water levels in the water pan
food probe	a sensor located outside the cabinet that, when inserted into the product, communicates the temperature of the product to the control panel
food probe receptacle	the connection where the food probe is inserted in order to communicate with the control panel
humidity sensor	a device that measures the percentage of humidity inside the cabinet during use
humidity setting	a preset moisture level at which the cabinet operates; this setting is programmed at the factory but can be changed in the field
LED	an electronic light on the control panel
minimum holding temperature	the lowest temperature at which a food product can be safely held for human consumption
module	the removable top part of the cabinet that contains all of the operating system
out of water trip point	a preset temperature at which a sensor warns the operator that the water pan needs refilled
parameters	a preset group of setpoints designed for holding specific food products at certain temperature and humidity levels
power switch	the ON/OFF switch that sends electricity to the unit's operating systems; this switch does not disconnect the electrical power from the wall to the unit

pressure sprayer	a device that shoots a stream of water under pressure; this device should NOT be used to clean a holding cabinet
probe clip	a metal holder that attaches to the outside of the control panel to hold the food probe when not in use; the clip is an optional accessory
product load capacity	the highest recommended number of pounds/kilograms of food product that can be safely held in the cabinet
proof function	a program used for allowing bread to rise
relative humidity	the humidity level outside the cabinet
setpoint	a preset temperature or humidity; the setpoint is a programmable feature
system initialization	a programming process that resets factory settings
temperature setting	a preset temperature up to which the cabinet will heat; this setting is programmed at the factory but can be changed in the field
tray support	guides, attached to air ducts, for trays of product to be held in the unit
vent activation switch	an automatic control that opens and closes the vent on the rear of the cabinet to maintain the preset humidity level
vented panels	openings on the cabinet that allow air access on the sides and rear of the module
water fill line	the line marked on the inside of the water pan that shows the maximum water level to prevent overflow onto the floor
water heater sensor	a part in the water heater that sends a message to the controls when the water pan is limed up or empty
water jet	a device that shoots a stream of water under pressure; this type of device should NOT be used to clean a holding cabinet
water pan	the area in the cabinet that holds water for creating humidity inside the cabinet



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