

Henny Penny Express Profit Center

Model EPC-2 Model EPC-3 Model EPC-4

(Translated Documents Available On CD within Manual)

OPERATOR'S MANUAL

REGISTER WARRANTY ONLINEAT WWW.HENNYPENNY.COM



LIMITED WARRANTY FOR HENNY PENNY EQUIPMENT

Subject to the following conditions, Henny Penny Corporation makes the following limited warranties to the original purchaser only for Henny Penny appliances and replacement parts:

<u>NEW EQUIPMENT:</u> Any part of a new appliance, except baskets, lamps, and fuses, which proves to be defective in material or workmanship within two (2) years from date of original installation, will be repaired or replaced without charge F.O.B. factory, Eaton, Ohio, or F.O.B. authorized distributor. Baskets will be repaired or replaced for ninety (90) days from date of original installation. Lamps and fuses are not covered under this Limited Warranty. To validate this warranty, the registration card for the appliance must be mailed to Henny Penny within ten (10) days after installation.

<u>FILTER SYSTEM</u>: Failure of any parts within a fryer filter system caused by the use of the non-OEM filters or other unapproved filters is <u>not</u> covered under this Limited Warranty.

<u>REPLACEMENT PARTS:</u> Any appliance replacement part, except lamps and fuses, which proves to be defective in material or workmanship within ninety (90) days from date of original installation will be repaired or replaced without charge F.O.B. factory, Eaton, Ohio, or F.O.B. authorized distributor.

The warranty for new equipment covers the repair or replacement of the defective part and includes labor charges and maximum mileage charges of 200 miles round trip for a period of one (1) year from the date of original installation.

The warranty for replacement parts covers only the repair or replacement of the defective part and does not include any labor charges for the removal and installation of any parts, travel, or other expenses incidental to the repair or replacement of a part.

<u>EXTENDED FRYPOT WARRANTY:</u> Henny Penny will replace any frypot that fails due to manufacturing or workmanship issues for a period of up to seven (7) years from date of manufacture. This warranty shall not cover any frypot that fails due to any misuse or abuse, such as heating of the frypot without shortening.

<u>0 TO 3 YEARS:</u> During this time, any frypot that fails due to manufacturing or workmanship issues will be replaced at no charge for parts, labor, or freight. Henny Penny will either install a new frypot at no cost or provide a new or reconditioned replacement fryer at no cost.

<u>3TO 7 YEARS:</u> During this time, any frypot that fails due to manufacturing or workmanship issues will be replaced at no charge for the frypot only. Any freight charges and labor costs to install the new frypot as well as the cost of any other parts replaced, such as insulation, thermal sensors, high limits, fittings, and hardware, will be the responsibility of the owner.

Any claim must be presented to either Henny Penny or the distributor from whom the appliance was purchased. No allowance will be granted for repairs made by anyone else without Henny Penny's written consent. If damage occurs during shipping, notify the sender at once so that a claim may be filed.

THE ABOVE LIMITED WARRANTY SETS FORTH THE SOLE REMEDY AGAINST HENNY PENNY FOR ANY BREACH OF WARRANTY OR OTHER TERM. BUYER AGREES THAT NO OTHER REMEDY (INCLUDING CLAIMS FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES) SHALL BE AVAILABLE.

The above limited warranty does not apply (a) to damage resulting from accident, alteration, misuse, or abuse; (b) if the equipment's serial number is removed or defaced; or (c) for lamps and fuses. THE ABOVE LIMITED WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS, AND ALL OTHER WARRANTIES ARE EXCLUDED. HENNY PENNY NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY.

Revised 01/01/07



TABLE OF CONTENTS

Section		Page
Section 1.	INTRODUCTION 1-1. Heated Express Cabinet	
	1-3. Proper Care	
	1-4. Assistance	
	1-5. Safety	
Section 2.	INSTALLATION	
	2-1. Introduction	2-1
	2-2. Unpacking	2-1
	2-3. Location	2-2
	2-4. Cabinet Dimensions	2-3
	2-5. Electrical Connection	2-6
Section 3.	OPERATION	
	3-1. Introduction	3-1
	3-2. Operating Controls	3-1
	3-3. Start-Up	3-3
	3-4. Operation with Product	3-4
	3-5. Cleaning Procedures	3-4
	3-6. Special Program Mode	3-6
Section 4.	TROUBLESHOOTING	
	4-1. Troubleshooting Guide	
	4-2. Error Codes	4-1
GLOSSARY		G-1

Distributor Lists - Domestic and International



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.





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
- LED lighting
- The EPC-3 & EPC-4 available as short, in-line units, or tall free-standing units

408



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.

1-2 707



SECTION 2. INSTALLATION

2-1. INTRODUCTION

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



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. Remove carton from unit.
- 4. Remove unit from packaging.

707 2-1



2-2. UNPACKING (Continued)

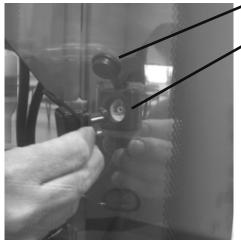


Figure 1

- 5. Unpack and install shelves.
 - a. Hook the shelf brackets in the slots in the back, interior of unit.
 - b. Pull the cover off the receptacles on the right side of the shelves. Figure 1.
 - c. Line up the prongs on the plug with the holes in the receptacle, and firmly push the plugs into the receptacle. Figure 1.



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

6. 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.

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



Take care when moving the cabinet to prevent personal injury.

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

2-3. 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.

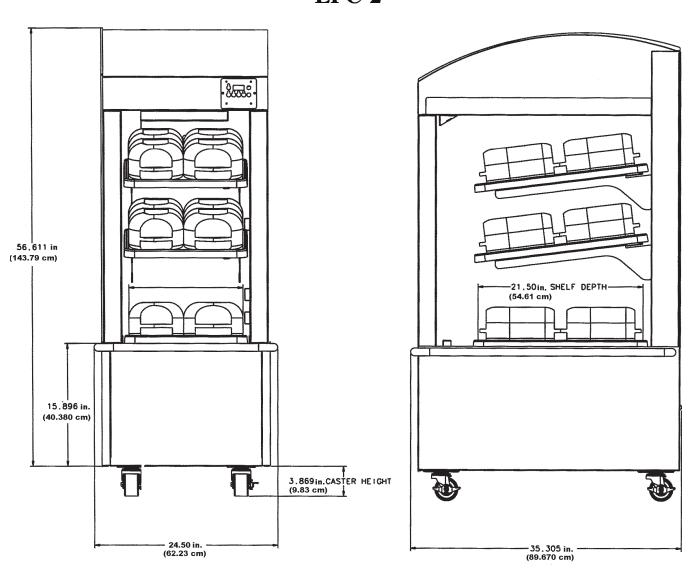
If the Henny Penny heated express cabinet does <u>not</u> have casters, level the unit and run a bead of silicone rubber (silicone or equivalent sealant must be a NSF listed material) around the perimeter of the unit, sealing it to the floor.

2-2 707



2-4. CABINET DIMENSIONS

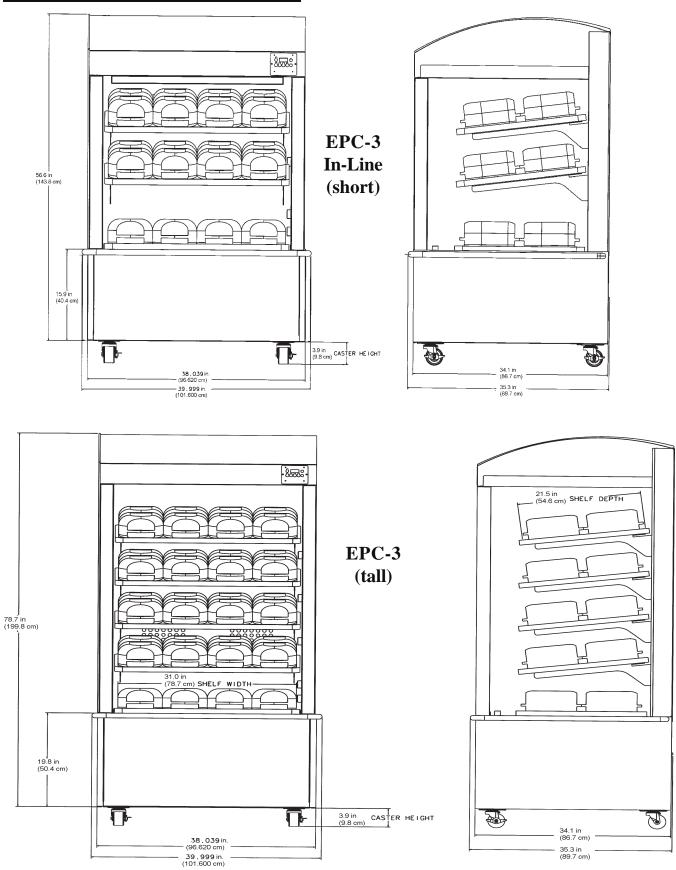
EPC-2



408 2-3



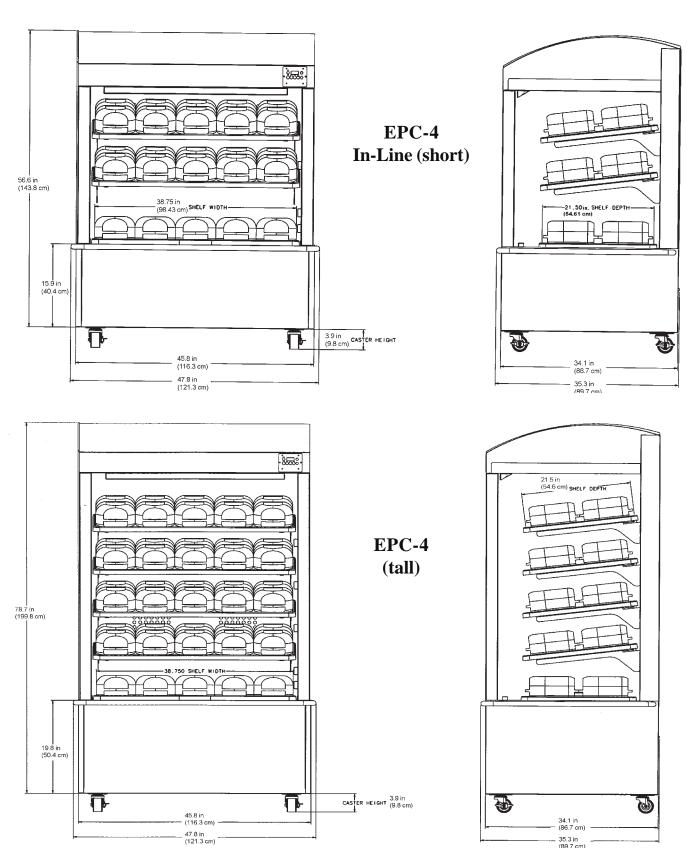
2-4. CABINET DIMENSIONS (Continued)



2-4 408



2-4. CABINET DIMENSIONS (Continued)





2-5. ELECTRICAL CONNECTION

The EPC-2 is available from the factory as a 120 or 208 VAC, 1 phase, 60 hz. unit, or a 230V, 1 phase, 50 hz. unit.

The EPC-3 & EPC-4 is available from the factory as a 208 or 240 VAC, 3 phase, 60 hz. unit, or a 400V, 3 phase, 50/60 hz. unit.

The data plate, located on the rear, interior 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 <u>not</u> 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

2-6 1109



2-5. ELECTRICAL CONNECTION (Continued)

The tables below shows electrical ratings for the EPC-2, EPC-3 & EPC-4

Model Number	Ph	Volts	Watts	Amps	Model Number	Ph	Volts	Watts	Amps
EPC-2	1	120	2268	18.9	-	-	-	-	-
EPC-2	1	208	2147	10.3	-	-	-	-	-
EPC-2	1	230	2093	9.1					
					EPC-3-Short	1	208	3570	17.2
EPC-4-Short	1	208	4584	22.0	EPC-3-Short	3	208	3570	14.8
EPC-4-Short	3	208	4584	19.0	EPC-3-Short	1	240	3578	15.7
EPC-4-Short	1	240	4600	20.0	EPC-3-Short	3	240	3578	12.8
EPC-4-Short	3	240	4600	16.5	EPC-3-Short	3	400	3575	8.5
EPC-4-Short	3	400	4595	7.5					
					EPC-3-Tall (3 shelf)	1	208	4010	19.3
EPC-4-Tall (3 shelf)	1	208	5134	24.7	EPC-3-Tall (3 shelf)	3	208	4010	16.5
EPC-4-Tall (3 shelf)	3	208	5134	21.1	EPC-3-Tall (3 shelf)	1	240	4018	17.5
EPC-4-Tall (3 shelf)	1	240	5149	22.3	EPC-3-Tall (3 shelf)	3	240	4018	14.3
EPC-4-Tall (3 shelf)	3	240	5149	18.3	EPC-3-Tall (3 shelf)	3	400	4016	10.4
EPC-4-Tall (3 shelf)	3	400	5145	8.8					
					EPC-3-Tall (4 shelf)	1	208	4450	21.4
EPC-4-Tall (4 shelf)	1	208	5684	27.3	EPC-3-Tall (4 shelf)	3	208	4450	18.3
EPC-4-Tall (4 shelf)	3	208	5684	23.4	EPC-3-Tall (4 shelf)	1	240	4458	19.4
EPC-4-Tall (4 shelf)	1	240	5700	24.5	EPC-3-Tall (4 shelf)	3	240	4458	15.9
EPC-4-Tall (4 shelf)	3	240	5700	20.2	EPC-3-Tall (4 shelf)	3	400	4456	10.4
EPC-4-Tall (4 shelf)	3	400	5700	8.8					

1109 2-7



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.

o access the controls, the bottom.

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.

OI LINAI.	ING CONTROLS	Refer to control diagrams on next page.
Item No.	Description	Function
not shown	Power Switch	A rocker switch that sends electrical current to the operating components and lights when turned on
1	Digital Display	Shows the cabinet temperature, error codes and the selections in the Program Modes
2		Press to set the base shelf heat value and to toggle through the Program Mode
3	•	Lights when the heat is on for that shelf
-		Press and hold to set the shelf heat value. The bold line indicates

the shelf being preset.



The first 2 shelf buttons are also used in the Special Program Mode to turn on and off the heat outputs for each shelf

4

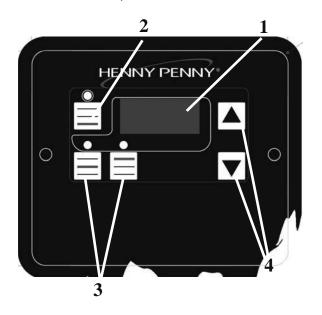
Used to set the heat values of the shelves and base; press and hold, while turning on power switch to enter the Special Program Mode; used in Special Program Mode to turn off and on heat outputs

3-1 408

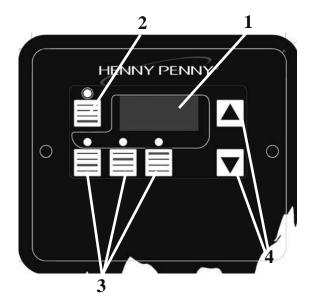


3-2. OPERATING CONTROLS (Continued)

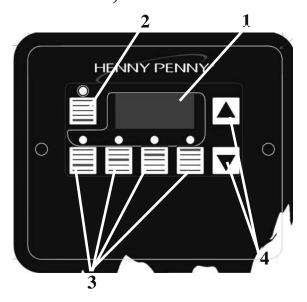
Short, In-line Units



Tall, 3 shelf Units



Tall, 4 shelf units



408 3-2



3-3. START UP



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. Press and hold and use



to set the heat value of the

base shelf. It can be set from "OFF" to a maximum of "10".



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.

3. Press and hold each shelf button and use 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 middle shelf heat

shelf. Ex: Press and hold value.



*Recommended settings to hold prepackaged whole chickens at a safe temperature for up to 4 hours:

EPC-2 - A heat value setting of **10** for all shelves

EPC-3 & EPC-4 - A heat value setting of **9** - top 2 shelves settings of **8** - lower shelves & deck

Settings for other products may differ.

It is also recommended to lock the controls once the settings are programmed (see Specail Program Mode) to ensure the settings aren't changed by unauthorized personnel.

4. Allow unit to preheat for about 30 minutes, and then prepackaged food products can now be placed on each shelf.

*Up to four hour holding times when the following ideal holding conditions are met:

- Ambient temperatures ranging anywhere between 70° to 74°F (21° to 23°C)
- Merchandiser holds 3.0 to 3.5 lb. (1.36 1.59 kg) chickens in domes [Pactiv CNC-6007]
- Shelf heat is set per recommendation in the Operations Manual
- Merchandiser is operated at rated voltage
- Chicken enters the merchandiser between 180° to 190°F (82° to 88°C)



3-5. CLEANING

PROCEDURES

OPERATION WITH PRODUCT

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



All shelf surfaces are hot! Burns could result!



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

Also, to hold prepackaged whole chickens at safe temperature for up to 4 hours, the product temperature must be above 180°F (82°C) when placed in the unit

- Serve the product first that has been in the cabinet the longest.
- 1. Turn power switch to OFF
- 2. Disconnect the electrical supply to the cabinet.



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

- Remove all product from the cabinet.
- Wipe down each shelf with a damp cloth, soap and water.



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

Remove the air diffuser assembly in the front of the unit and take to a sink and clean with soap and water. The plastic diffuser can be pushed out of the metal holder for cleaning.



DO NOT put plastic air diffuser in a dishwasher. The plastic diffuser is NOT dishwasher safe, and damage to the diffuser could result.





Figure 1

608 3-4



3-5. CLEANING PROCEDURES (Continued)

6. Clean the exterior of the cabinet with a damp cloth.

NOTICE

For stubborn spots on the black top cap, Henny Penny recommends the Foaming Degreaser - Part no. 12226 and for the side glass, Glass Cleaner - Part no. 12227.

See your local distributor for details.

7. Clean the side glass with non-streaking liquid glass cleaner and a soft cloth. Do not use abrasive cleaners.

CAUTION

<u>Do not use</u> 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.

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

<u>Do not use</u> alcohol or alcohol-based cleaners (such as sanitizers) on the plastic shelves or LED lens covers, or damage to these components could result.

8. Replace diffuser properly into unit. Looking at the under-side of the diffuser assembly, the plastic diffuser must go towards the inside of the unit. Figure 2.



To prevent foreign objects from entering the air duct and to avoid the risk of fire, <u>DO NOT</u> operate unit without diffuser in place.

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





Figure 2



3-6. SPECIAL PROGRAM MODE

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

The shelf buttons are numbered in Figure 1 to indicate the correct shelf button to press in the following procedures.

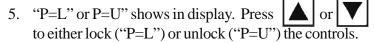
1. Turn power switch off.



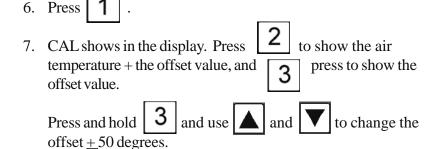
3. "SP" shows in display, followed by "oF" or "oC". Press or to change display to "oC" for Celsius, or "oF" for

Fahrenheit. (Only applies to units showing temperature.)





Locking the controls will not allow anyone to change the heat values until the controls are unlocked.





9. CPU shows in the display. Press to view the current temperature of the PC board and press highest temperature of the PC board.



Figure 1

408 3-6



3-6. SPECIAL PROGRAM MODE (Continued)

10. "OP" shows in the display. Press and release the shelf buttons
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.
11. Press 1 .
12. "In" shows in the display. Press and hold or Let or 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.
13. Press 1 .
14. "CE=y" or "CE=n" shows in the display. Use ■ and ■
to toggle between CE=y and CE=n. If controls are set to
CE=y, then the display shows the current air temperature during
operation.
If controls are set to CE=n, then the display shows "ON"
during operation.
9. Press and hold to exit Special Program Mode.
o entropedia i Togram Mode.
NOTICE
Press and hold 1 at any time to exit the Special Program
Mode, or if no buttons are pressed for 1 minute, controls auto-

matically exits Special Program Mode.

3-7 408



SECTION 4. TROUBLESHOOTING

4-1. TROUBLESHOOTING GUIDE

Problem	Cause	Correction
Product not holding temperature	 Heat value of shelf not high enough Product not hot when placed in cabinet 	 Set higher heat value in controls Place prepackaged hot food in cabinet
With power switch on, unit is completely inoperative (NO POWER)	Open Circuit	 Check to see that unit is plugged in. Check breaker or fuse at supply box
Shelf won't heat	Shelf not plugged into receptacle properly	Check that the shelf plug is firmly pushed into receptacle, in the interior of the cabinet

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 intitialized; if "E41" persists replace the control board
"E06"	Air temperature too hot	Turn switch to OFF position, then turn switch back to ON; probe open if display shows "E06", the temperature probe should be checked
	Controsl set CE=y in Special Program Mode	Unit does not have a temperature probe and the controls must be set to CE=n, in Special Program Mode

807 4-1



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 that sends electricity to the unit's operating systems;

this switch does not disconnect the electrical power from the wall to the unit

G-1 707



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

707 G-2



Henny Penny Corporation P.O.Box 60 Eaton,OH 45320

1-937-456-8400 1-937-456-8402 Fax

Toll free in USA 1-800-417-8417 1-800-417-8434 Fax

www.hennypenny.com