

## SECTION 3. OPERATION

### **3-1. INTRODUCTION**

This section provides operating procedures for the multipurpose holding cabinets. Read the Introduction, Installation and Operation Sections, and all instructions should be followed before operating the cabinet.

This section contains an explanation of all controls, components, and information on operating procedures and daily maintenance.

### **3-2. OPERATING CONTROLS AND COMPONENTS**

Figure 3-1 identifies and describes the functions of all the operating controls and components of the cabinet.

<b>Item No.</b>	<b>Description</b>	<b>Function</b>
1	Digital Display	An LED display which shows the time of day and drawer temperature
2	LEDs	When illuminated, setpoint temperature has been reached
3	UP and DOWN Buttons	Used when programming the controls, changing the display, and accessing the Special Program Mode
4	POWER Switch	A rocker switch that controls the power to the unit
5	Drawer TEMP Buttons	Used to view the drawer temperature, and to set the setpoint temperature for the drawer
6	SET Button	Used in the Program Mode

### 3-2. OPERATING CONTROLS AND COMPONENTS (Continued)

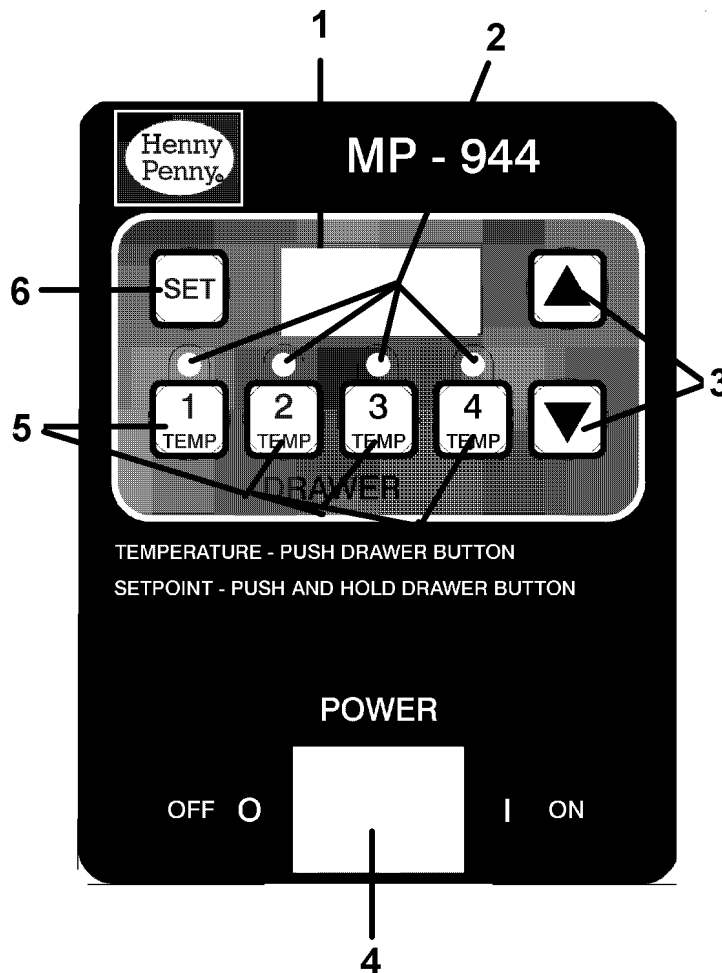


Figure 3-1

### 3-3. START-UP

## NOTICE

Before using the cabinet, it should be thoroughly cleaned as described in the cleaning procedures section of this manual. To put the cabinet into operation, move each POWER switch to the ON position and adjust each control to the appropriate temperature. The power light should illuminate indicating that the unit is operating. The operating temperature of this unit should be achieved in approximately 30 minutes.

### **3-3. START-UP (Continued)**

1. Turn the POWER switch to the ON position.
2. The display will show the time of day or “ON”.

## **NOTICE**

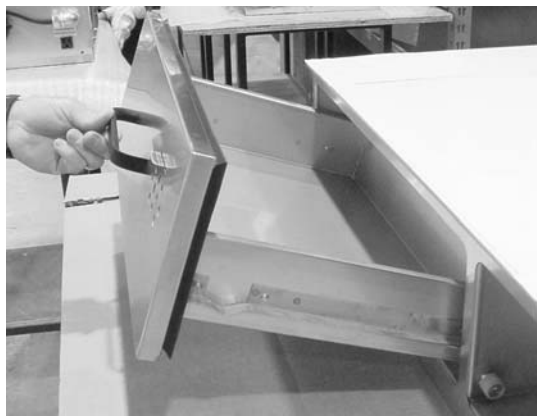
Press and hold the appropriate drawer button to view the actual temperature of the drawer.

3. When the temperature LED illuminates, the setpoint temperature has been reached and product can now be loaded into the drawer.

### **3-4. OPERATING WITH PRODUCT**

1. Place the hot product inside one of the drawers.
2. Serve the product first that has been in the cabinet the longest.
3. Open the drawers only as necessary to load and serve the product.

### **3-5. CLEANING**



**Step 3**

1. Move the POWER switch to the OFF position.
2. Disconnect the electrical supply to the unit.

## **CAUTION** **BURN RISK**

*To avoid burns, allow the unit to cool before cleaning by opening all the drawers fully for approximately 20 minutes.*

3. Remove the drawers by pulling straight out and tilting up.
4. Clean drawers with a cloth and soapy water.

### **3-5. CLEANING (Continued)**

5. Clean the interior of the cabinet thoroughly with a cloth and soapy water.

## **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 and shorten the life of the unit.*

*Do not spray the unit with water, such as, with a garden hose. Failure to follow this caution could cause component failure.*

6. Wipe down the exterior of the cabinet with a damp cloth. Avoid getting water in the area of the control panel.
7. Replace the drawers.
8. If the unit is to be left off, leave the drawers open two or three inches.

### **3-6. OPERATION AND PROGRAMMING**

#### **Unit Operation**

1. Turn POWER switch to the ON position.
2. The display will show the time of day, or “ON”.

## **NOTICE**

Press and hold any of the drawer buttons to view the actual temperature of the drawer.

#### **Time of Day Programming**

Press and hold the SET button while using the UP and DOWN buttons to set the desired time. When the SET button is released the time will be saved.

#### **Temperature Setpoint Programming**

1. Press and hold the appropriate drawer button for 6 seconds. The actual temperature will be shown first followed by the flashing setpoint temperature.

### **3-6. OPERATION AND PROGRAMMING (Continued)**

2. While holding in on the drawer button, press and release the SET button. Now the setpoint temperature will be blinking at a faster rate. Now release the drawer button.
3. Press the UP and DOWN buttons to change the setpoint temperature.
4. Once the desired setpoint temperature is reached, press the SET button to return to normal operation mode and the setpoint will be saved.

#### **Special Program Mode**

1. Turn the POWER switch off. Press and hold both the UP and DOWN buttons and turn the POWER switch back on. Press and hold the UP and DOWN buttons until “SP” shows on the display, then release the UP and DOWN buttons. Display will now show “°F” or “°C”.
2. Press the UP or DOWN buttons to toggle from “°C” (Celsius), or “°F” (Fahrenheit).
3. Press and release the SET button, and display will show “CAL”. Press and hold the button of the drawer to be calibrated, and use the UP and DOWN buttons to match the display to the actual temperature.
4. After the calibration mode, press and release the SET button to access Initialization Mode.
5. Press and hold either the UP or DOWN button until display reads “In- SYS”. This resets all setpoint temperatures to 180 °F (82° C).
6. After the initialization mode, press and release the SET button the access the Output Test Mode.
7. “OP” will show in the display. Press and release any of the drawer buttons to turn the relays and heaters off and on.
8. After the output test mode, press and release the SET button to access the Display Mode.
9. If “C=y” shows in the display, the time of day shows in the display during normal operation. If “C=n” shows in the display, “ON” shows on the display during normal operation. Press and release the UP and DOWN buttons to toggle from “y” to “n” or vice versa.
10. Press and hold the set button to exit Special Program Mode at any time.

### **3-6. OPERATION AND PROGRAMMING** **(Continued)**

#### **Setting Control to the Correct Number of Drawers**

The different models, MP-941, 942, 943, and 944, all use the same control board. The boards are programmed at the factory for the correct unit. But, should the unit show “E06” or some drawers will not heat, the board may not be programmed for the appropriate unit.

### **NOTICE**

The LED flashes at a fast rate for the drawer(s) not programmed correctly.

To check the drawer programming, turn the unit off, then back on. The display will flash the number of drawers the unit is programmed for. If the unit is not programmed correctly, follow these steps:

1. Turn the power switch off, then press and hold the SET button and the drawer button, which corresponds to the number of drawers that the unit has, and turn unit back on, ex: MP-944=SET and number 4 button.
2. Release the buttons, and now the unit should be set up for use.

### **NOTICE**

Pressing and holding the drawer button shows the temperature of that drawer. If no temperature is displayed, the unit may need to be programmed by the above steps.

### **3-7. ERROR CODES**

<b>DISPLAY</b>	<b>CAUSE</b>	<b>PANEL BOARD CORRECTION</b>
“E-4”	Control board overheating	Turn switch to OFF position, then turn switch back to ON; if display shows “E-4,” the control board is getting too hot; make sure unit is not overheating
“E-6”	Faulty temperature probe	Check to see if unit is set to the correct number of drawers, ex: MP-942=2 drawers (see programming instructions)
“E-41”	Memory scrambled	Press and release the UP and DOWN buttons to initialize the program; if “E-41” persists replace the control board
“Hi”	Unit overheating; faulty relay or control board	Have relay or control board replaced