

EQUIPMENT SET-UP AND CLOSE PROCEDURES

The *Introduction* and *Installation* sections of this manual should be read before operating the cabinet.

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

Heated air inside the cabinet is circulated upward to the cabinet roof and over a heating coil. The heated air is then forced downward through a duct located in the rear of the cabinet. The heated air is dispersed over and under the product from openings in the rear of the cabinet liner. These openings are varied in size to promote uniformity of heated air throughout the cabinet.

Set-Up

Place the power switch in the ON position and select either A or B mode by depressing the UP ▲ button for A or the DOWN ▼ button for B.

The display will increase in temperature, indicating that the cabinet is heating. When the operating preset temperature is reached, the display will read $165^{\circ}\text{F} \pm 5^{\circ}\text{F}$. ($74^{\circ}\text{C} \pm 3^{\circ}\text{C}$) in the A mode, or $185^{\circ}\text{F} \pm 5^{\circ}\text{F}$ ($85^{\circ}\text{C} \pm 3^{\circ}\text{C}$) in the B mode.

Close

Daily Cleaning Procedure

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

WARNING: Allow the unit to cool before cleaning by opening the drawers slightly.

3. Remove the wire basket from each drawer. (See Figure A)

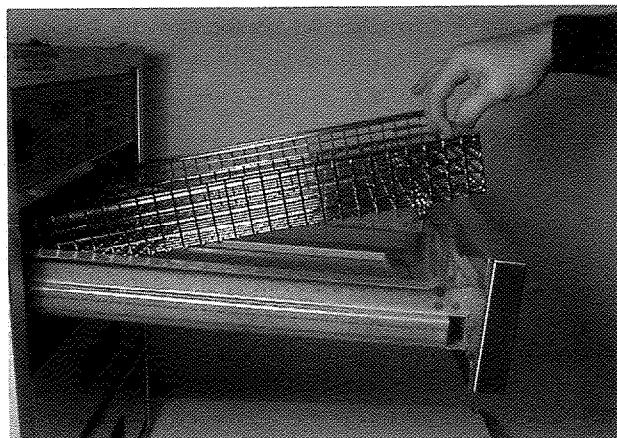


Figure A

4. Take the baskets to a sink and clean them thoroughly with a hot solution of **McD All Purpose Concentrate (APC) (HCS)** from the sink proportioner.
5. Remove the drawers by pulling them out and tilting them upwards. (See Figure B)

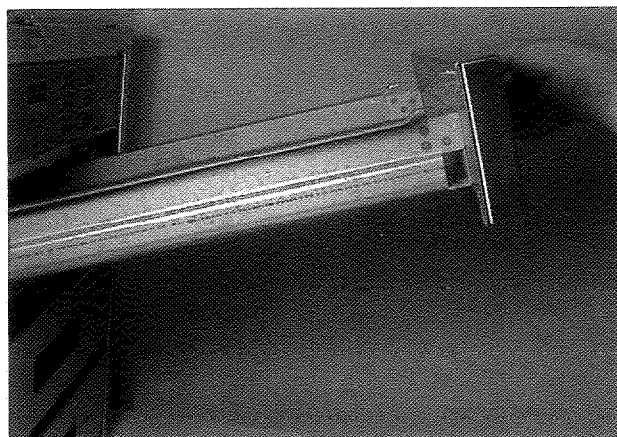


Figure B

CAUTION: DO NOT IMMERSE THE DRAWERS INTO WATER.

6. Clean the drawers using a clean towel and a hot solution of **McD APC (HCS)** from the sink proportioner.

7. Remove the crumb tray from each drawer and clean them thoroughly in the back sink. (See Figure C)

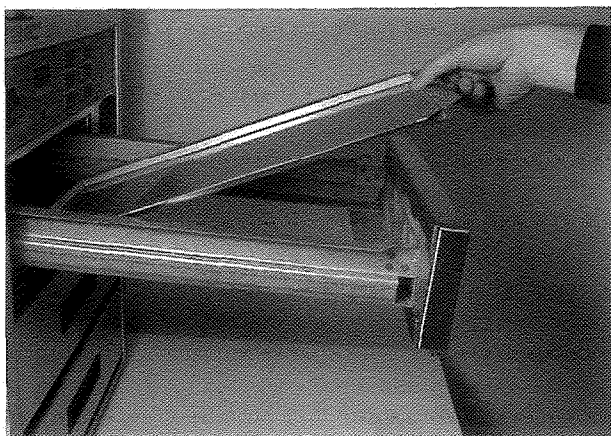


Figure C

8. Clean the interior of the cabinet thoroughly with a clean hand towel and a hot solution of **McD APC (HCS)** from the sink proportioner.

CAUTION: Do not use abrasive cleaners on the outside of the cabinet.

9. Wipe down the exterior of the cabinet with a clean damp towel. Avoid getting water in the open areas of the cabinet and control panel.
10. Replace the crumb trays, drawers, and wire baskets.
11. Leave the top drawer open 2" to 3" (5 cm to 8 cm) to air dry the inside of the cabinet overnight.

Temperature Regulation

It is possible to regulate the setpoint temperature for both A and B modes. Depress and hold the SET/TEMP button, and the setpoint temperature is then displayed — $165^{\circ}\text{F} \pm 5^{\circ}\text{F}$ ($74^{\circ}\text{C} \pm 3^{\circ}\text{C}$) in the A mode, or $185^{\circ}\text{F} \pm 5^{\circ}\text{F}$ ($85^{\circ}\text{C} \pm 3^{\circ}\text{C}$) in the B mode. Depress the UP ▲ or DOWN ▼ button until the desired cabinet setpoint temperature is displayed. After seeing the correct temperature setpoint, release the SET/TEMP button to return to the operating mode.

Timer Programming

1. Depress the timer switch for the channel being set.
2. While depressing the timer switch, depress the UP ▲ and DOWN ▼ buttons until the desired time is displayed for that channel.

3. Once programmed, release both buttons. Timer will revert to last mode of operation, either dim or counting down.

NOTE: A timer can also be changed while it is in the countdown mode. This is only in effect for the remainder of that particular timing cycle. At the end of the timing cycle, the timer will show 30 minutes in dim light on the display in the B mode and 60 minutes in the A mode. To permanently change the timer, program when the timer display is dim.

Timer Operation

When the timer is not running, the programmed time will show dim in the timer display. For example, if the control is in the A mode, the display will show "60" minutes. If the control is in the B mode, the display will show "30" minutes. By depressing the timer button, the display will show the time remaining in the full brightness, and it will start the countdown cycle. The decimal point in the lower right corner will start to blink. All timers operate independently of each other, and may be started, stopped, or aborted regardless of the status of the other timers. At the end of the timing cycle an alarm will sound, "00" will flash in the timer display, and the decimal point will stop blinking. Once the timer is reset, the programmed time will show dim in the timer display.

Timing Through Power Down

Power interruptions such as brownouts are common, but timing through a brownout will reduce the adverse effects of these power failures. If a power interruption should happen, the control will check the timers and cabinet temperature. If the cabinet temperature has dropped less than 10°F (7°C), the control will continue timing from the point of the power interruption. If the cabinet temperature has dropped more than 10°F (7°C), the timers will end their timing cycle, and the alarm will sound. This is to inform the operator that this temperature drop may affect the product.

Special Program Mode

This special program mode consists of the following features:

1. Fahrenheit (F) or Celsius (C).
2. Program Mode Lockout (L) - locked (U) - unlocked.
3. One-button programming for times and temperature.

To enter the special program mode:

1. Turn the power switch to OFF.
2. Depress and hold the SET/TEMP button while turning the power switch to ON.
3. Release the SET/TEMP button.

Timer 1 Switch: Models HC-934 and HC-932

Upon entering the special program mode, the temperature display will be blank. Timer 1 switch will change from F for Fahrenheit to C for Celsius. This will be shown in the Timer 1 display.

Timer 2 Switch: Models HC-934 and HC-932

If there is a programmed time and setpoint temperature for all three timers, you have the ability to lock these cycles in to avoid anyone from changing the times and temperature. Enter the special program mode. There will be a U shown in the timer 2 display. Depress the timer 2 switch and display will read L for lock. To change any preset times and temperature to U. You are now able to make changes as desired.

Timer 3 Switch: Model HC-932 and Timer 4 Switch: Model HC-934

To turn OFF or ON the beeper or strobe light, enter the special program mode. By depressing the timer 3 or 4 button, the display will toggle from B, S, BS, or blank. B indicates the beeper will sound at the end of any timing cycle. S indicates no beeper, but the strobe light will come on at the end of a cycle (if applicable). BS indicates both beeper and strobe will come on, and a blank display indicates no beeper and no strobe.

TROUBLESHOOTING

CAUTION: Refer to maintenance procedures in the *Non-Scheduled Maintenance* section to check and repair the unit safely and properly.

Operation

PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
Product not holding temperature	Drawers are left open.	Keep drawers closed except to load and serve product.
	Product held too long.	Hold product only for recommended times.
	Temperature control set too low.	Increase temperature setting by depressing set button and push the UP ▲ or DOWN ▼ button.
	Heater not working.	Check heater and replace if needed.
	Blower not working.	Check blower and replace if needed.

Timer 3 Switch: Model HC-934 and Timer 4 Switch: Model HC-932

To preset the holding cabinet to McDonald's specifications, enter the special program mode. Depress timer 3 or 4 button. The temperature display will read "INI" briefly and return to normal special program mode. All timers will be set at 60 minutes in the A mode and 30 minutes in the B mode. The setpoint temperatures will be 165°F±5°F (74°C±3°C) in the A mode, and 185°F±5°F (85°C±3°C) in the B mode. To exit special program mode simply turn the power switch to OFF and then ON again.

Physical Specifications

- 18" wide x 24-1/8" deep x 21-1/16" high (46 x 61 x 53 cm). Model HC-934
- 18" wide x 24-1/8" deep x 16-1/16" high (46 x 61 x 41 cm). Model HC-932
- Equipped with 3 channel 11-3/8" wide x 18-7/8" long x 1-1/8" deep wire baskets (29 x 46 x 26 cm). Model HC-932 only has 2 baskets.
- Shipping weight - 135 pounds (61 kg) Model HC-934
- Shipping weight - 110 pounds (50 kg) Model HC-932