



UHC-HD

Installation, Operating Manual

3,6-Row Models

 **Frymaster**[®]



Frymaster, a member of the Commercial Food Equipment Service Association, recommends using CFESA Certified Technicians.

* 8196560A *

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Price: \$6.00
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NOTICE

IF, DURING THE WARRANTY PERIOD, THE CUSTOMER USES A PART FOR THIS MANITOWOC EQUIPMENT OTHER THAN AN UNMODIFIED NEW OR RECYCLED PART PURCHASED DIRECTLY FROM FRYMASTER/DEAN, OR ANY OF ITS AUTHORIZED SERVICE CENTERS, AND/OR THE PART BEING USED IS MODIFIED FROM ITS ORIGINAL CONFIGURATION, THIS WARRANTY WILL BE VOID. FURTHER, FRYMASTER/DEAN AND ITS AFFILIATES WILL NOT BE LIABLE FOR ANY CLAIMS, DAMAGES OR EXPENSES INCURRED BY THE CUSTOMER WHICH ARISE DIRECTLY OR INDIRECTLY, IN WHOLE OR IN PART, DUE TO THE INSTALLATION OF ANY MODIFIED PART AND/OR PART RECEIVED FROM AN UNAUTHORIZED SERVICE CENTER.

THE UHC-HD IS NOT SUITABLE FOR OUTDOOR USE. WHEN OPERATING THIS UNIT, IT MUST BE PLACED ON A HORIZONTAL SURFACE.

THE UHC-HD IS NOT SUITABLE FOR INSTALLATION IN AN AREA WHERE A WATER JET CAN BE USED. THIS APPLIANCE MUST NOT BE CLEANED WITH A WATER JET.

DO NOT POSITION THE UHC-HD NEAR THE STEAM OR HEAT EXHAUST OF ANOTHER APPLIANCE.

FOR YOUR SAFETY
DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

DO NOT OPERATE OR SERVICE THE UHC-HD WITHOUT FIRST READING THIS MANUAL.

DO NOT OPERATE THE UHC-HD UNLESS IT HAS BEEN PROPERLY INSTALLED AND CHECKED.

DO NOT OPERATE THE UHC-HD UNLESS ALL SERVICE AND ACCESS PANELS ARE IN PLACE AND PROPERLY SECURED.

DO NOT ATTEMPT TO REPAIR OR REPLACE ANY COMPONENT OF THE UHC-HD UNLESS ALL POWER TO THE UNIT HAS BEEN DISCONNECTED.

USE CAUTION WHEN SETTING UP, OPERATING, OR CLEANING THE UHC-HD TO AVOID CONTACT WITH HEATED SURFACES.

USE CAUTION WHEN LIFTING THE UHC-D. THE UNIT WEIGHS 200 POUNDS (90.7 KG). THREE TO FOUR PEOPLE, USING STANDARD SAFE LIFTING PRACTICES, WILL BE NECESSARY TO HANDLE THE CABINET.

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2 Power Up

ALL ELECTRICALLY OPERATED APPLIANCES MUST BE ELECTRICALLY GROUNDED IN ACCORDANCE WITH LOCAL CODES, OR IN THE ABSENCE OF LOCAL CODES, WITH NATIONAL ELECTRIC CODE, ANSI/NFPA NO. 70-1990.

A. Power Requirements:

- Voltage – 208/240 VAC
- 2620 Watts @ 208V – 3420 Watts @ 240V
- Frequency – 50/60 Hertz
- Single Phase
- 20 amp Service

THIS APPLIANCE IS EQUIPPED WITH A THREE-PRONG GROUNDING PLUG FOR YOUR PROTECTION AGAINST SHOCK HAZARD AND MUST BE PLUGGED INTO A PROPERLY GROUNDED THREE-PRONG RECEPTACLE. DO NOT CUT OR REMOVE THE GROUNDING PRONG FROM THIS PLUG.

DO NOT POSITION THE UHC-HD NEAR THE STEAM OR HEAT EXHAUST OF ANOTHER APPLIANCE.

ALL UNITS SHOULD BE CONNECTED TO A GROUNDED POWER SUPPLY SYSTEM.

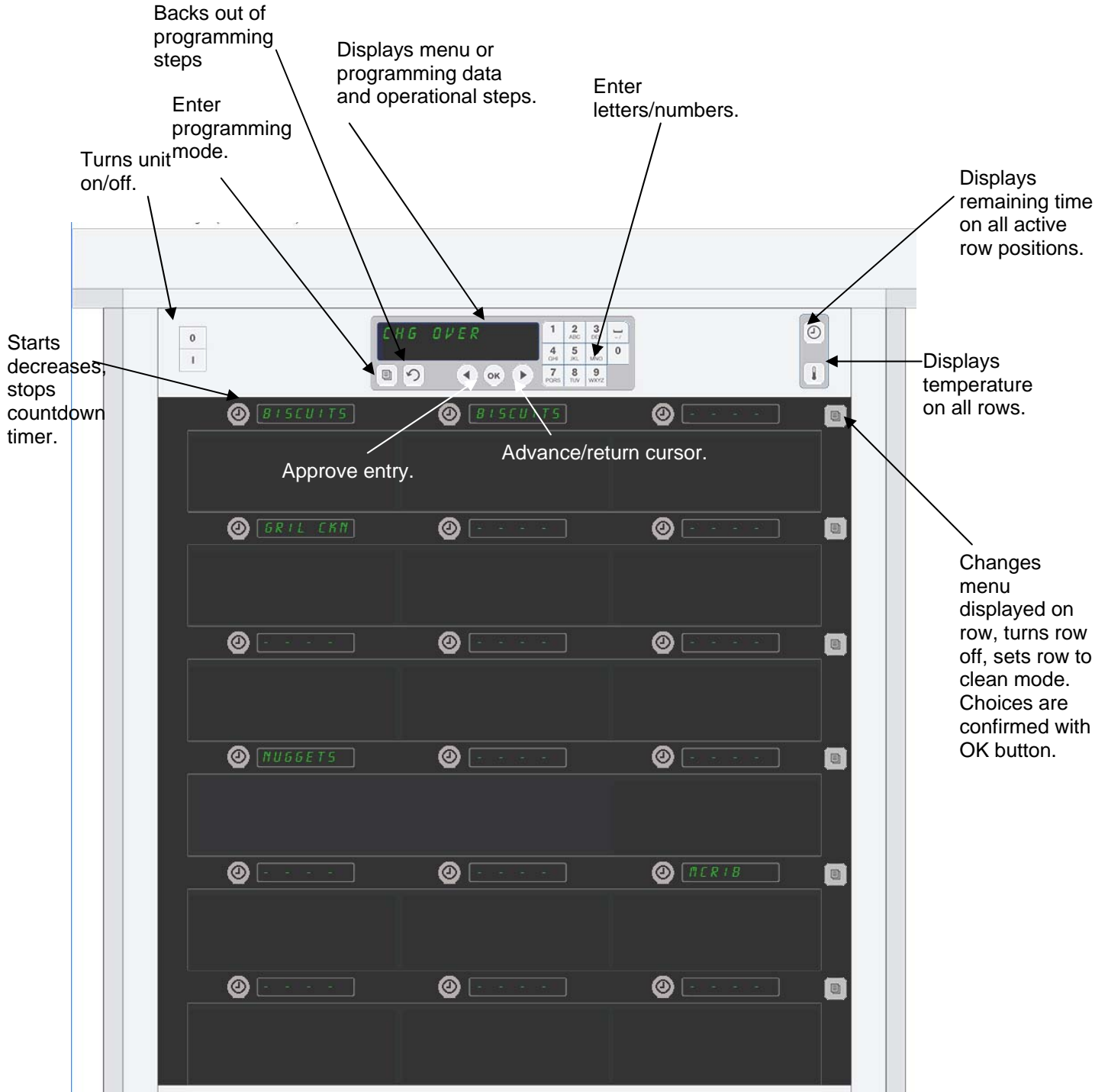
2.1 Pre-Heating

1. Plug the Universal Holding Cabinet HD into the power source.
2. Place empty food trays in all row positions.
3. Place the power switch in the ON position.
4. Set the cabinet to the desired menu.
5. The cabinet will display Low Temp, changing to a menu item name when the proper temperature is reached.
6. Start timer as food items are added to the heated trays.

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3 Operational Overview

The Universal Holding Cabinet-HD (UHC-HD) has six rows, which hold up to three trays of product each or three rows, which hold three trays each. Each row position has a display, which indicates product and holding time for each tray position.



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The UHC-HD is ready for operation out of the box, with the slots set for routine menu configurations.

4.1 Cabinet Operation

1. Turn the power switch ON.
2. The displays will light and show *LOW TEMP.* changing to product names when the cabinet is at temperature.
3. Load product in the appropriate row and press the timer button. The brightest displays indicate the slots with the least remaining hold time.
4. Press the far right row mode key to change menu on the row, turn the row off, or set it to clean mode. Press OK button to accept change.

3.2 Timer Operation



A bright button and a bright menu item display indicate the row position to use first. A bright button on a row position indicates it is active, but not the position with the least remaining hold time. Its menu name will brighten when it becomes the position with the least remaining hold time.

Press the timer key adjacent to the desired slot. The button brightens; the product name also brightens if it is the first or only selection of that menu item. The brightness of the menu item display indicates the position with the least remaining hold time. Buttons brighten on positions for the same product as they are pressed. The menu name will remain dim until it is the row position with the least remaining hold time.

Timer Display Sequence

- Bright button, bright display on row position with least holding time; bright button for row positions with the same product.
- *COOK NOW*
- *XXXXX* with a continuous beep at the end of timer cycle; press timer button to cancel alarm.

Stopping the Timer

Press the timer key next to the row position to turn a timer off. The timer stops and the timer button dims. The display of the next appropriate row position brightens.

4.3 Changing Row Setting

Press the row mode button on the right side of the cabinet. The displays on the selected row cycle through menu choices, clean mode and off. With the desired choice displayed, press the OK button on the keypad. The master control will display the menu choice or *MIXED* if there is more than one menu in use on the cabinet.

4.4 Cook Now Prompts

The Cook Now prompt appears at a preset time prior to the expiration of the last tray of a specific product. No acknowledgement is necessary. The display of *COOK NOW* serves as a reminder to cook more of the needed product.

4.5 Using Clean Mode

Press the menu key until Clean Mode is displayed. Press the OK key. If there are active timers, the cabinet will not allow Clean Mode to be chosen with the menu key. With no active timers, the selection of Clean Mode will put the entire cabinet in Clean Mode.

The names change on all row positions. The setpoint for all rows becomes 125°F (52°C). The displays show *SLOT CLN MODE* and *NOT SAFE YET* until the temperature of the slots reaches 125°F (52°C). The display becomes *CLEAN*.

4.6 Turning Slots OFF

Press the far right row mode key until OFF is displayed. Press the OK key on the keypad.

4.7 Reducing Hold Time

The hold-time can be reduced in five minute increments by pressing and releasing the timer key on an active slot. This is done to delete time an item was held in another holding cabinet.

4.8 Temperature Display

Press the temperature button on the cabinet and the left row of displays show top and bottom temperatures

- Top plate temperature
- Bottom plate temperature

4.9 Temperature Alarms

There are four Temperature alarms:

- High Temperature
- Low Temperature
- Sensor
- Rise Time

If an alarm condition occurs, an audible alarm sounds and the display alternates between the product selection and the alarm message. Timers cannot be started if a slot is displaying an alarm message.

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4.9.1 High and Low-Temperature Alarms

If the slot temperature is above or below the limits for the product selected, the display will show `SLOT TEMP HIGH` or `SLOT TEMP LOW`. An alarm will sound. Press a timer key to turn off the audible alarm. The audible alarm does not sound during initial cabinet startup.

4.9.2 Sensor-Range Alarm

The sensor fail alarm indicates a sensor temperature value above or below the 90-250°F (32-121°C) range of the slot. An audible alarm sounds. The displayed message is `SENS ALRM`. Press a timer key to end the audible alarm. Service is required to correct the sensor alarm.

4.9.3 Rise-Time Alarm

A rise-time alarm indicates the slot temperature failed to reach operating temperature within a preset time after start up. The displayed message is `SLOT RISE RATE`. An audible alarm sounds. Press a timer key to turn off the audible alarm. Service is required to correct a rise-time alarm.

4.9.4 Additional Out of Tolerance Displays

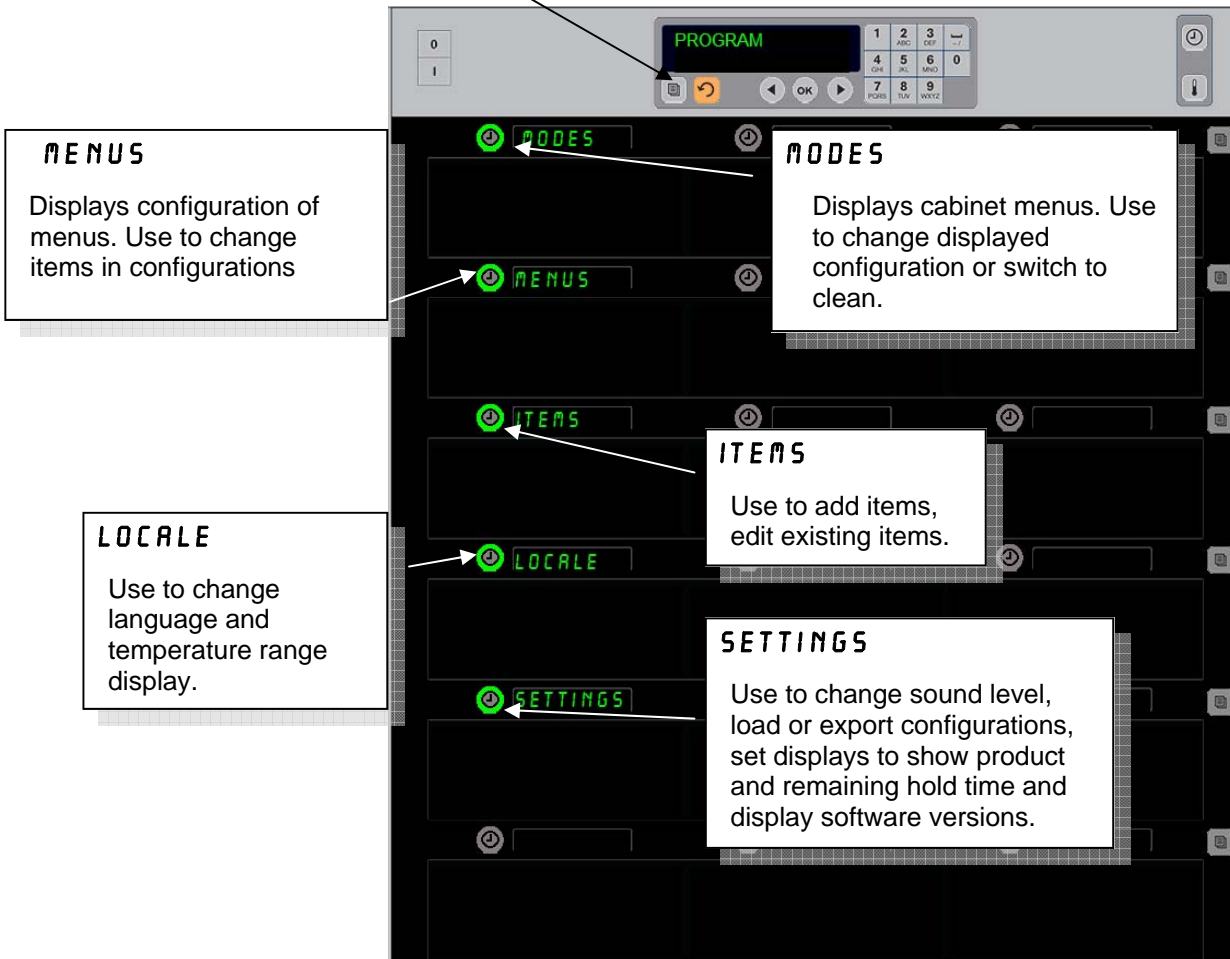
`HHH` in the display indicates a sensor error. Service is required.

`LLLL` indicates a sensor error or a slot below 50°F (10°C). Allow the slot to operate for 10 minutes. If `LLLL` remains, call for service.

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Programming Overview

Pressing the programming key and entering a code accesses five areas of the cabinet, annotated below.



Programming requires use of the keypad and timer buttons on the left column of rows. Press the keypad Program button, enter the code and the cabinet displays change (as shown above).

With Program displayed on the master control:

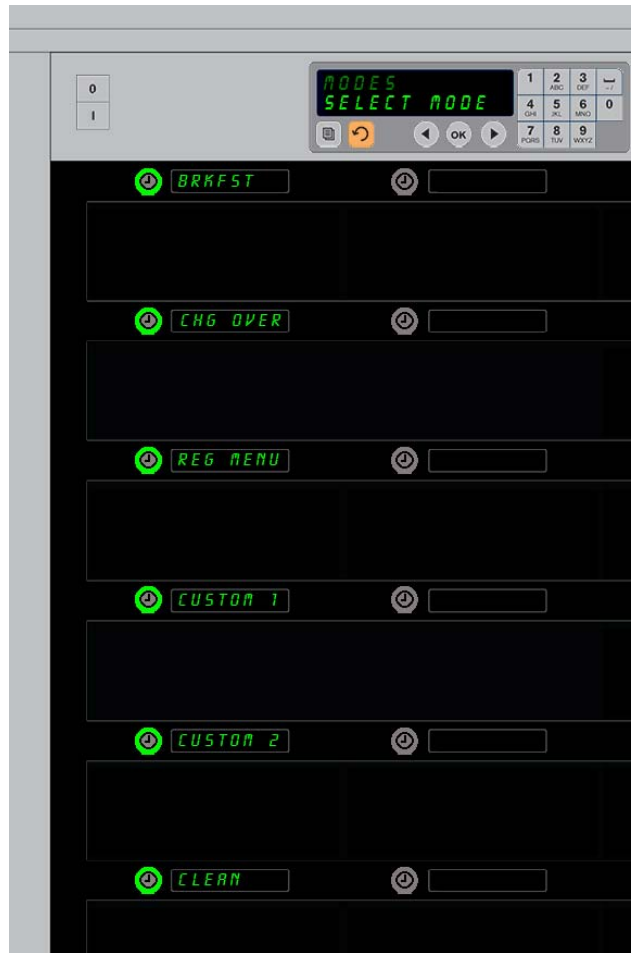
- Press the timer next to Modes to display menu configurations and clean.
- Press the timer next to Menus to change the menu configuration.
- Press the timer key next to Items to add a menu item or to delete or edit an existing item.
- Press the timer key next to Locale to change the displayed language or the temperature range from Fahrenheit to Celsius.
- Press the timer key next to Settings to adjust sound level, change row position display to product and remaining hold time, access configuration exporting and importing feature and see software versions numbers. In each case, as the button is pushed the words on the cabinet row positions change. Items relevant to the chosen menu are displayed. Instructions scroll on the keypad display.

Change Modes

Use this to change, globally, the menu on the cabinet.

1. Press the program button.
2. *ENTER ACCESS SEQUENCE* is displayed.
3. Enter 1955.
4. Press OK key.
5. Press the illuminated key next to *MODES*, the first column of displays becomes five menu choices and clean.
6. Press the desired menu.
7. All displays show chosen menu. Controller scrolls Press OK to confirm mode change.
8. Press OK.
9. Controller display becomes *CHG COMPLETE*. The arrow key remains illuminated.
10. Press the ↻ key three times, returning the cabinet to operation in the selected menu.

Note: This changes the cabinet menu on all rows at once. Individual rows can be changed using the row button on the right side of each row.



Changing Items Displayed in a Menu

1. Press the program button.
2. *ENTER ACCESS SEQUENCE* is displayed.
3. Enter 1955.
4. Press OK key.
5. Press the timer button adjacent to the Menu display.
6. The cabinet's left column of displays becomes menu choices.
7. Press the desired menu.
8. The current configuration for that menu is displayed.
9. Press the timer key at the position to be changed*.
10. Scroll through choices with the illuminated timer key or the ◀▶ keys (arrow keys allow forward and backward scrolling) on the controller.
11. With the desired item displayed, press OK.
12. Controller display becomes *CHG COMPLETE*. The ⏻ key remains illuminated.
13. Press the ⏻ key three times, returning the cabinet to operation in the selected menu.



The cabinet is shown with the Breakfast menu displayed.

***NOTE:** Menu items that change the row temperature must be introduced in the left row position. Items in the center and right positions have to have the same temperature. Menu items with temperatures incompatible with the left position are not shown when scrolling through products.

Changing Menu on a Single Row

1. Press the row mode button on the desired row.
2. Menu choices, including *OFF* and *CLEAR*, are displayed with each button push.
3. With the desired menu choice displayed, press OK on the keypad.
4. The control display changes from the previous menu name to *MIXED*.



Pressing the row mode button (see arrow) produces a sequence of menu choices. With the desired menu for the row displayed, press the OK button on the top keypad.

Add, Change or Delete a Menu Item

1. Press the program button.
2. *ENTER ACCESS SEQUENCE* is displayed.
3. Enter 1955.
4. Press the timer button adjacent to the Items display.
5. The cabinet display becomes *ADD ITEM*, *CHG ITEM*, *DEL ITEM*.
6. The keypad displays *SELECT TASK*.

Instructions for each task are detailed below:

Add New Item

With the cabinet in Items mode, press the timer button next to the Add Item display.

The left column of displays becomes

- Item Name
 - Top Temp
 - Bot Temp
 - Hold Time
 - Cook Now
1. Press the *ITEM NAME* button. The keypad display becomes *SELECT SETTING TO CHANGE*. The name display becomes *NAME NEW ITEM*. Use the keypad to enter a product name.
 2. Press the \curvearrowright button. Display becomes *SELECT SETTING TO CHANGE OR PRESS OK TO SAVE*.
 3. Press the *TOP TEMP* button. Use the keypad to slowly enter the top temperature.
 4. Press the \curvearrowright button. Display becomes *SELECT SETTING TO CHANGE OR PRESS OK TO SAVE*.
 5. Press the *BOT TEMP* button. Use the keypad to slowly enter the bottom temperature.
 6. Press the \curvearrowright button. Display becomes *SELECT SETTING TO CHANGE OR PRESS OK TO SAVE*.
 7. Press the *HOLD TIME* button. Use the keypad to enter the time the product can be held in the cabinet.
 8. Press the \curvearrowright button. Display becomes *SELECT SETTING TO CHANGE OR PRESS OK TO SAVE*.
 9. Press the *COOK NOW* button. Keypad display becomes *CHANGE ITEM*. Use the keypad to enter the point in the countdown the cabinet will display a *COOK NOW* alert.
 10. Press OK. Display becomes *SELECT SETTING TO CHANGE OR PRESS OK TO SAVE*.
 11. Press OK. Display becomes *CHG COMPLETE*.
 12. Press \curvearrowright key once to enter another product, starting at *ITEM 5*. Press \curvearrowright key twice more to return the cabinet to operational mode and end programming.



Add, Change and Delete Item are displayed when the Item choice is taken in programming mode.



Choosing any option in the Item mode produces the display shown above.

NOTE: Temperatures above 200°F (93°C) and below 165°F (73°C) cannot be entered. Some numbered keys become inoperative with a temperature set to the maximum or minimum, preventing entry of a higher or lower number.

Change an Item

With the cabinet in Items mode, press the timer button next to the CHG Item display.

The cabinet displays are populated with item names.

Press the timer button next to the item that is to be changed.

The cabinet display becomes:

- ITEM NAME
- TOP TEMP
- BOT TEMP
- HOLD TIME
- COOK NOW

NOTE: Scroll to additional displayed items, if necessary, with the ◀▶ keys on the keypad.

Press the timer button next to the parameter to change and follow steps shown in **Add New Item** section to change one or more of the holding parameters for the product. Press ↻ until cabinet returns to operational mode.

Delete an Item

With the cabinet in Items mode, press the timer button next to the Del Item display.

The cabinet displays are populated with item names.

Scroll to additional names with the illuminated ◀▶ keys.

Press the timer key next to the item to be deleted.

The cabinet display becomes:

- ITEM NAME
- TOP TEMP
- BOT TEMP
- HOLD TIME
- COOK MORE

The controller displays *DELETE ITEM*.

Press OK on keypad.

Keypad display becomes *CHANGE COMPLETE*.

Press the ↻ key to return the cabinet to operational mode.



Cabinet with menu items displayed. The item to be deleted is chosen with a timer key. The deletion is confirmed with the OK key on the controller.

Change Language

1. With the cabinet in Program mode, press the timer button next to the *LOCALE* display.
2. The left cabinet displays become *LANGUAGE* and *DEGREES*. The center display shows the current settings.
3. Press the *LANGUAGE* button.
4. The cabinet displays are populated with language choices. Scroll to additional language choices, if necessary, with the keypad arrows.
5. The top left display shows the current language.
6. Press the desired language button. The chosen language is displayed in the top left row position; all others are blank.
7. Press OK.
8. Press ↻ key to return cabinet to operational mode in new language.



Cabinet is shown with *LOCALE* display. Adjacent to Language is the current language choice; adjacent to Degrees is the current temperature range.

Entering Programming Mode
 Press the program button.
 Enter access sequence is displayed.
 Enter 1955.
 Press OK key.

Change Temperature Range Display

1. With the cabinet in Program mode, press the timer button next to the *LOCAL* display.
2. The left cabinet displays become *LANGUAGE* and *DEGREES*. The adjacent displays show the current settings.
3. *LANGUAGE* and *DEGREES* are displayed with the current setting shown on the adjacent slot.
4. Press the timer next to *DEGREES*.
5. *FAHRENHEIT* and *CELSIUS* are displayed, one over the other.
6. Press the timer key next to the desired scale.
7. The chosen degree scale is displayed in the top left row position; all others are blank.
8. Press OK on the keypad to confirm choice.
9. Press the ↶ key to return the cabinet to operation in the new temperature scale.



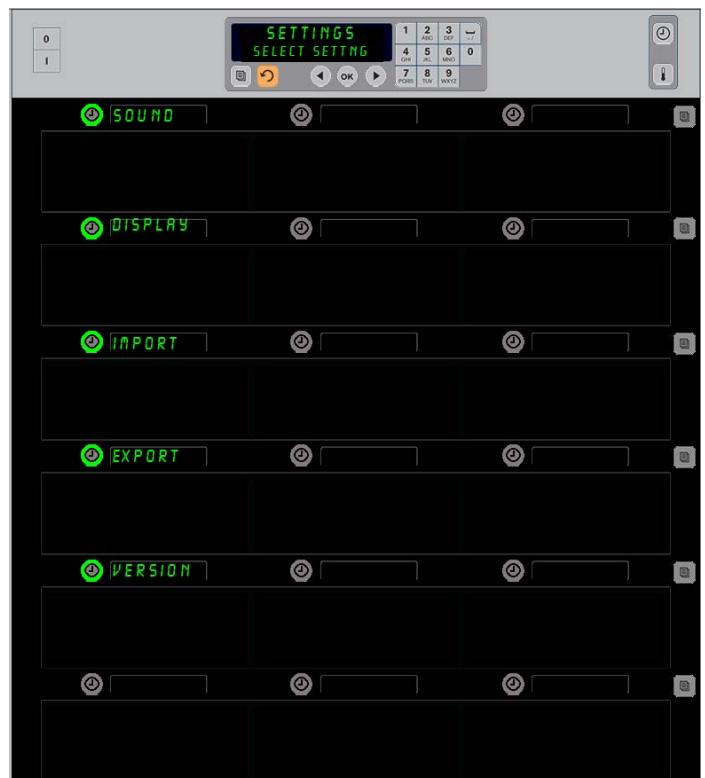
Pressing the timer adjacent to *DEGREES* produces the display shown above. Press the time button next to the desired temperature range.

Settings

The Settings menu introduces several options: sound level adjustment, a display adjustment, which adds remaining hold time to the row position display, configuration import from the McDonald's Web-based cabinet configuration site and exporting configuration files for use in other cabinets. You can also view software versions. The features are described below in the order they appear on the cabinet.

Sound

1. With the cabinet in Program mode, press the timer button next to the *SETTING* display.
2. The current sound setting is displayed at the top left; other sound levels are displayed on the row positions directly below.
3. Keypad display scrolls instructions.
4. Press the timer key next to the desired setting.
5. The chosen setting is displayed in the top left; all other displays are blank.
6. Press OK to confirm choice.
7. Press the return arrow key to return the cabinet to operation with the new sound level.



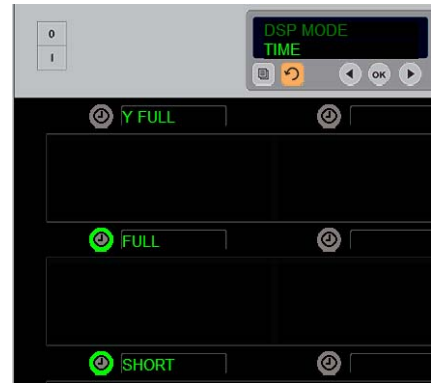
Entering Programming Mode

Press the program button.
Enter access sequence is displayed.
Enter 1955.
Press OK key.

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Display

1. With the cabinet in Program mode, press the timer button next to the *DISPLAY*.
2. *DSP MODE* is displayed at the top left; the current display setting — *FULL* or *SHORT* — is displayed at the top center. Keypad display scrolls instructions. *FULL* displays the full name of the product. *SHORT* displays a shortened name and the remaining hold time.
3. Press the key next to *DSP MODE*.
4. The top position scrolls the current setting; the positions immediately below become *FULL* and *SHORT*.
5. Press the timer key next to the desired display mode.
6. The chosen setting is displayed in the top left; all other displays are blank.
7. Press OK to confirm choice.
8. Press the return arrow key to return the cabinet to operation with the changed display.



The top position scrolls the current choice. The illuminated buttons below are the choices.



In the Short mode of display, the item name and the remaining hold time are shown constantly. Some item names will be abbreviated.

Import

1. With the cabinet in Program mode, insert a flash drive with cabinet configurations captured from the **McDonald's Web-based programming site*** or exported from the cabinet.
2. Press the timer button next to *IMPORT*.
3. The cabinet's row positions are populated with cabinet configuration file names on the flash drive.
4. Press the timer key next to the desired configuration.
5. The chosen file name is displayed in the top left row position. Other row positions are blank. Display scrolls Press OK to Confirm.
6. Press OK.
7. *CHG COMPLETE* is displayed.
8. Press ↵ to back out of programming and return the cabinet to regular operation.



Cabinet configuration file names on the flash drive are visible on the cabinet (top) when importing a configuration. A configuration is selected by pressing the adjacent timer button. That file name appears in the top left position (lower illustration). All timer buttons are extinguished and all other row positions displays are blank.

NOTE: *Access to the Web-based software and instructions for its use are managed exclusively by McDonald's.

Contact: Glen Schackmuth

Phone: 630-623-2154

email: Glenn.Schackmuth@us.mcd.com

NOTE: Menu configurations captured to a flash drive with the code routine described on page 4-13 cannot be loaded to the cabinet like a Web-created file. Use the code routine for those files, the Web-based routine for Web-created files.

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Export

1. With the cabinet in Program mode, insert a flash drive.
2. Press the timer button next to *EXPORT*.
3. The top left row button position lights and the Master Display screen scrolls *ENTER EXPORT FILENAME*.
4. Enter a name for the file with the keypad. The letters appear next to the illuminated button. (This is the name the file will carry and it will be visible in the root of the flash drive and on a cabinet as the file is imported from the flash drive.)
5. Press OK.
6. *CHG COMPLETE* is displayed.
7. Press ↶ to back out of programming and return the cabinet to regular operation



The file name must be named when exporting it from the cabinet.

Version

1. With the cabinet in Program mode, press the time next to *VERSION*.
2. *FIRMWARE* is displayed in the top left row position; the version number is displayed immediately to the right.
3. *USB* is displayed in the second left row position; the version number is displayed immediately to the right.
4. Press ↶ to back out of programming and return the cabinet to regular operation.

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Capture Cabinet Menus/Configurations

The menu items and cabinet configurations in a cabinet can be captured and used to configure cabinets with identical software setups. Follow the instructions below to capture the menus and configuration from a cabinet.

1. Insert an empty flash drive in the USB socket on the cabinet with menus and configurations to be copied.
2. Press the programming key.
3. Enter 759248 with the keypad.
4. Press OK.
5. The master control will display *COPY FROM UHC TO USB*.
6. Press OK.
7. The master control displays *PLEASE WAIT...* as files are transferred to the flash drive, changing to the number of files copied when the process is complete.
8. Press OK.
9. Remove flash drive.
10. Cabinet returns to normal display.



The configuration of a cabinet can be captured on an empty flash drive for transfer to cabinets with the same software setup.

NOTE: Menu configurations captured to a flash drive with the code routine described here cannot be loaded to the cabinet like a Web-created file. Use the code routine for those files, the Web-based routine on page 4-11 for Web-created files.

Configure Cabinet with Menu/Configuration Captured on another Cabinet

1. Place a flash drive with a captured menu/cabinet configuration into the USB port of a cabinet to be identically configured.
2. Press the programming key and enter 090709 with the keypad.
3. Press OK.
4. The master control will display *RECONFIGURE OK OR CANCEL*.
5. Press OK.
6. The master control will display *PLEASE WAIT...* as the files are updated, changing to the number of files copied.
7. Press OK.
8. The cabinet will return to the original menu setting, changing row position displays to match items introduced with the configuration transfer.



A cabinet configuration can be transferred to multiple cabinets with a captured configuration held on a flash drive.

Cleaning and Preventive Maintenance

Every Four Hours – Clean Trays/Racks

1. Remove all plastic and wire trays. Take trays/racks to the sink for cleaning.
2. Clean trays by washing in a hot *McD All-Purpose Super Concentrate (APSC) (HCS)* solution drawn through the sink proportioner or mix 0.3 fl. *McD APSC (HCS)* for each gallon of solution. Rinse trays/racks thoroughly under hot water.
3. Sanitize trays/racks by dipping in *McD Sink Sanitizer (HCS)* solution, (one pack per 10 gallons of water) or *McD Sanitizer (HCS)* solution (four packs per 10 gallons of water), for at least 1 minute. Remove from sanitizer solution and allow to air dry.

Daily – Clean Cabinet

1. At the end of the operating day, turn unit to Clean Mode. Follow steps on Page 3-3.

Note: Do not use *McD Sink Sanitizer (HCS)* to clean the exterior of the Universal Holding Cabinet-P.

2. Let the unit cool until the `SLOT CLN MODE` display dims. Use brush to remove any remaining buildup on the slot surface by pushing the particles out the opposite end of the cabinet.

Note: Use only the cabinet cleaning brush to clean the cabinet slots. Wire brushes, abrasive pads, or metal scrapers will permanently damage the surface of the cabinet slot.

Note: Do Not use any other cleaner than *McD (APSC)(HCS)*. Using other compounds may result in damage to control components.

3. With the cabinet cleaning brush, push all loose particles out the opposite end of the cabinet.
4. Use a wet, clean/sanitized towel and the cabinet-cleaning brush to clean each slot. Clean the bottom and top surface of each slot.
5. Wipe clean all exterior cabinet surfaces with a clean, sanitized towel that has been soaked in *McD ASPC (HCS)*.
6. Turn the unit off.

T



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